



FY2019-2024
CAPITAL
IMPROVEMENT PROGRAM

Capital Improvement Program

Total Projected Expenditures by Functional Area							
	FY19	FY20	FY21	FY22	FY23	FY24	FY19-24
Community Development	\$20,103,441	\$12,334,392	\$12,200,000	\$12,513,400	\$6,325,800	\$9,890,000	\$73,367,033
Education	\$167,405,000	\$35,856,100	\$272,932,300	\$94,769,000	\$160,716,000	\$354,740,000	\$1,086,418,400
Human Services	\$100,000	\$0	\$0	\$0	\$3,000,000	\$3,000,000	\$6,100,000
Public Safety	\$43,990,528	\$38,920,244	\$4,060,338	\$775,000	\$7,650,000	\$5,300,000	\$100,696,110
Technology Improvement	\$15,496,206	\$14,314,000	\$12,136,680	\$4,540,000	\$970,000	\$248,000	\$47,704,886
Transportation	\$140,677,367	\$112,760,081	\$107,497,883	\$40,558,000	\$5,129,000	\$205,000	\$406,827,331
Total	\$387,772,542	\$214,184,817	\$408,827,201	\$153,155,400	\$183,790,800	\$373,383,000	\$1,721,113,760



CIP Web Mapping Application

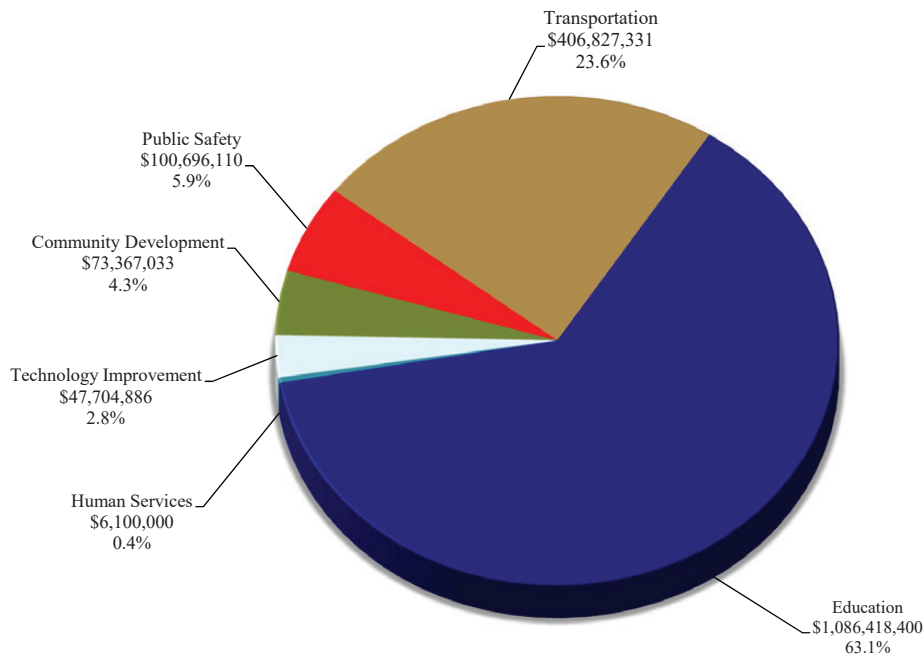
For the FY2019-2024 Capital Improvement Program (CIP) development process, the County has created a CIP mapping application accessible to desktop and mobile devices. Please click the image above to access the mapping tool.

The application allows the community to visualize exactly where CIP projects - such as roads, parks, and facilities - are located and planned in the County. The application also provides the project cost and other information about each project. Moving from static pictures in a print and digital document to a mapping environment simplifies and enhances the distribution of information to the community.

Capital Improvement Program

County Projected Expenditures by Category (FY2019-2024)

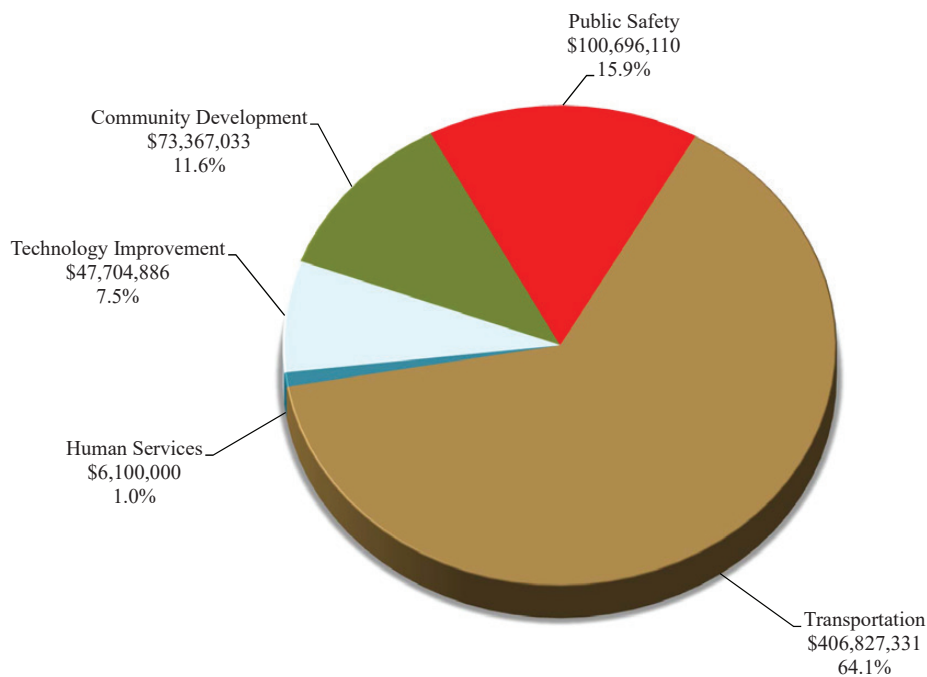
Includes Schools



\$1,721,113,760

County Projected Expenditures by Category (FY2019-2024)

Excludes Schools

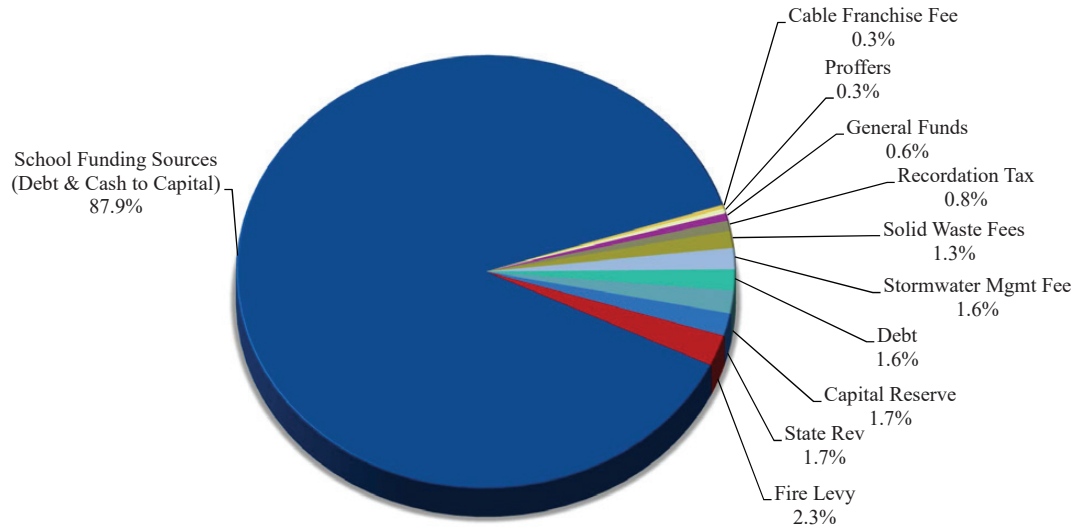


\$634,695,360

Capital Improvement Program

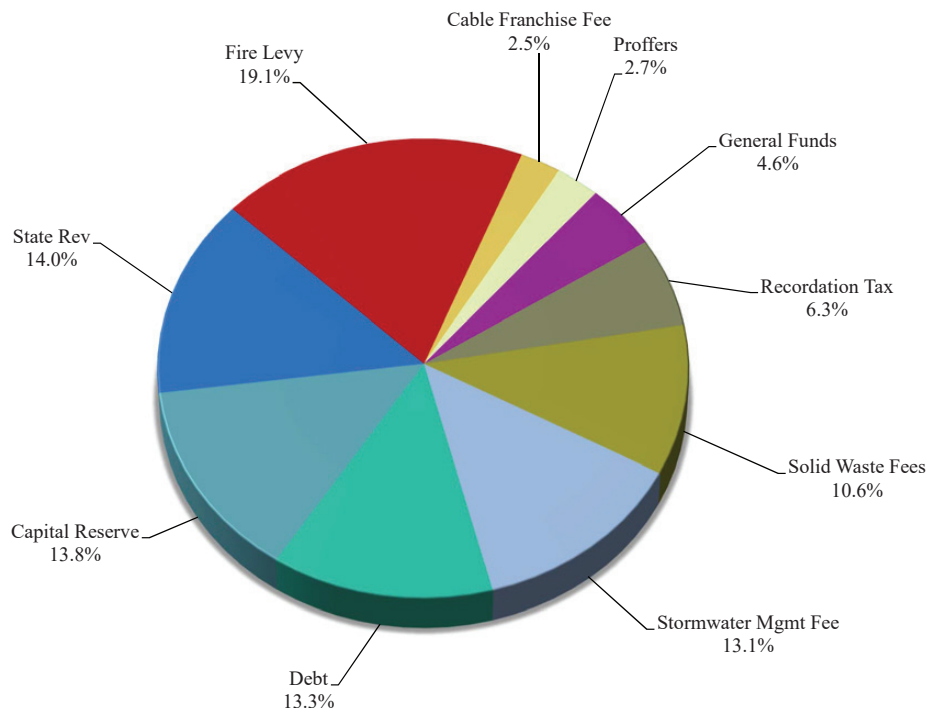
County Funding Source (FY2019-2024)

Includes Schools



County Funding Sources (FY2019-2024)

Excludes Schools



Capital Improvement Program

Capital Improvement in Prince William County (PWC)

The PWC financial and program planning [ordinance](#) requires that the County Executive prepare a capital plan annually. The development of the [CIP](#) is guided by the Board of County Supervisors' (BOCS) adopted Strategic Plan, [Comprehensive Plan](#), and Principles of Sound Financial Management (PSFM). Together these policy documents require that the CIP:

- Incorporate the goals and strategies of the [Strategic Plan](#);
- Demonstrate an identifiable revenue source for each project;
- Meet the debt financing policies in the [PSFM](#); and
- Integrate County government projects with school projects into one affordable plan.

The capital planning process begins each summer when agencies are asked to update current capital projects and identify capital project needs. Agency submissions are collaboratively evaluated by staff from Finance, Public Works, Information Technology, Transportation, Planning, Management & Budget, and Executive Management. Funding requests are prioritized using criteria that include the relationship to the community's goals as expressed through the County's Strategic Plan and Comprehensive Plans, completion of projects already underway and mandated improvements to County infrastructure, and then balanced against available funds. Once evaluated, the recommendations are reviewed, modified, and sanctioned by the County Executive.

The CIP is then presented to the BOCS for consideration. During the spring, work sessions and public hearings are held with the Planning Commission and the BOCS as part of the annual budget process. In late April, the BOCS considers and adopts a capital budget for the upcoming fiscal year and a capital plan for six fiscal years.

Annual Capital Project Review

In order to provide the BOCS and the County Executive with regular status reports, capital project updates are reported through:

- Public Works Project Reports,
- Transportation Reports,
- Technology Reports;
- Parks & Recreation Reports, and
- Economic Development Reports.

Reports highlight active projects, major milestones, anticipated completion dates and a narrative explaining the current project status.

In the spring, prior to the start of year-end activity, the Finance Department conducts a review of the capital fund activity. Relevant findings are forwarded to each project manager for feedback. This financial review is an internal control best practice and provides the foresight necessary for the planning process in the subsequent fiscal year.

The Capital Budget

The capital budget is appropriated on an annual basis and is included in the adopted budget. The FY19 capital projected expenditures for the County government are \$220.4 million. Funding sources for County projects include the general fund, debt, state/federal, fire levy, stormwater management fees, proffers, capital reserve, recordation tax revenue designated for transportation, internal service fund balance, solid waste fees, and development fees.

Capital Improvement Program

Joint County/Schools Capital Process Team

In spring 2017, the Joint County/Schools Capital Process Team (Team) was established. The Team includes two different groups, the Joint Board Committee for Capital (Committee) and the Joint Staff Work Group for Capital (Work Group). The Committee constitutes the decision making body and the Work Group is responsible for supporting the Committee's goals and objectives.

The mission and purpose is to establish more frequent contact and collaboration between the PWC School Board and Prince William BOCS in order to discuss capital needs, enhance efficiency in planning processes, and improve service outcomes to the community.

Additional information and documents related to the work of the team can be found online at www.pwcgov.org/jointcip.



Capital Improvement Program

Use of the Capital Reserve

The CIP includes the use of \$29.6 million from the general capital reserve. The projected remaining fund balance after these designations is \$6.9 million.

Uses of Capital Reserve	
Project	FY19 Amount
Parks & Recreation Capital Project Improvements	\$8,000,000
Technology Infrastructure	\$8,000,000
Building & Facility Capital Program	\$6,000,000
Human Capital Management	\$6,000,000
911 Call Center Redundancy	\$1,020,000
PWC Website Redevelopment	\$600,000
Total	\$29,620,000

- A. Parks & Recreation Capital Improvement Projects** - The CIP includes \$8.0 million from the capital reserve to support Parks & Recreation site improvements at Catharpin Park (\$4.3 million), Rollins Ford Park (\$2.7 million), Locust Shade Park (\$0.6 million), and covered storage at multiple locations (\$0.4 million).
- B. Technology Infrastructure** - The CIP includes \$8.0 million from the capital reserve to support future technology infrastructure needs. Additional information is detailed on the Technology Infrastructure project page in this document.
- C. Building & Facility Capital Program** - The capital maintenance program receives an additional \$6.0 million from the capital reserve. Additional information is detailed on the Building & Facility Capital Program project pages in this document.
- D. Human Capital Management (HCM)** - The system replacement project receives \$6.0 million from the capital reserve. The County has defined system requirements and a request for proposal will be developed in FY19. Additional information on the system requirements process is detailed on the HCM project page in this document.
- E. 911 Call Center Redundancy** - This project will support increased redundancy and efficiency for public safety communication activities. The total amount designated from the capital reserve is \$1.0 million. Additional information is detailed on the 911 Call Center Redundancy project page in this document.
- F. PWC Website Redevelopment** - This project will be supported by \$600,000 from the capital reserve. Additional information can be found later in this document.

Capital Improvement Program

Community Development - Summary

Projects included within the Community Development section impact Parks & Recreation, Solid Waste, Storm Water Management, and Historic Preservation. The following projects have dedicated project pages:

- Building & Facility Capital Maintenance
- Catharpin Park Phase 2
- Harbor Drive Park
- Locust Shade Park Grounds Maintenance Shop
- Locust Shade Park Water Line Replacement
- Long Park Auxiliary Building & Sewer - Front
- Potomac Heritage National Scenic Trail
- Rollins Ford Park Phase 2
- Trail Development
- Eco Park Complex
- Landfill Caps
- Landfill Liners
- County Watersheds

Other Community Development capital initiatives are described below:

- A. **Covered Storage at Parks Grounds Maintenance Facilities** - This project includes \$450,000 to support the construction of covered storage at various parks throughout the County. The covered storage will ensure that maintenance equipment and supplies are properly secured, thereby mitigating environmental impacts.
- B. **Park Land Acquisition** - This project includes \$762,136 supported by developer contributions (proffers) for future land purchase. There are no specific land purchases pending. Parks and Recreation staff have identified this finding for a shift to support the improvements at Rollins Ford Park and will be requesting a BOCS action to transfer the funds. If the funds transfer is approved, the Park Land Acquisition project will be closed.
- C. **Cloverdale Park Parking Expansion** - This project includes \$200,000 to support the expansion of the parking lot at Cloverdale Park in the Neabsco Magisterial District.
- D. **Historic Preservation Capital Improvements** - The CIP includes a number of existing projects that improve County owned historic buildings and sites:
 - **Safety and Maintenance Improvements** - This existing project funds safety and maintenance improvements at various historic sites, including Brentsville Courthouse and Jail, Rippon Lodge, Bristoe Station Battlefield Park, Ben Lomond House, Barnes House, Bushy House, Lucasville School, and Williams Ordinary. The funding was provided by the Historic Preservation Capital Reserve. The total budget for this project is \$273,762.
 - **Library Historic Homes** - This existing project supports improvements to the Barnes and Bushy historic homes located at the Haymarket-Gainesville Community and Montclair Community Libraries. The total budget for the project is \$110,000.
 - **Brentsville Jail Renovation** - This existing project renovates the jail building. The total budget is \$130,511.

Capital Improvement Program

- E. **Prince William Museum at Rippon Lodge** - In [BOCS Resolution 13-496](#), approved on August 6, 2013, funding was designated for the development of preliminary design and construction documents for a museum focused on the history of PWC. The museum is proposed to be located at the Rippon Lodge historic site in Woodbridge. The current available balance in the project is \$117,142. The Prince William Historic Preservation Foundation has begun fundraising for the museum. In addition, proffer funding is being identified to supplement the prior-approved funding to complete the preliminary design documents.

Human Services - Summary

Projects included within Human Services include a solutions study and improvements to the Juvenile Detention Center. Both Human Services initiatives are described below:

- A. **Human Services ‘No Wrong Door’ Solutions Study** - The CIP includes an existing project to develop solutions to better integrate and coordinate service delivery for human services clients regardless of their entry point. The total budget for this project is \$400,000. Many individual clients seek services from multiple human services agencies making integration across those agencies important for successful outcomes. This solutions study will attempt to identify improvements, operational efficiencies, and reduce complexity to improve client care and delivery of client services. The contract- award occurred in January 2018 and the study is scheduled to be completed and presented to the BOCS in fall 2018.
- B. **Juvenile Detention Center Improvements** - The CIP includes future funding to support the renovation of the existing, or construction of a new Juvenile Detention Center. The existing facility was originally constructed in 1978 (24 beds) with two renovations in 1997 (16 beds, classrooms, etc.) and 2000 (32 beds). Evolving state and federal requirements and best practices have necessitated review of the existing facility and assessment of current and future needs. The Department of Social Services initiated a community needs assessment and site study in order to potentially access up to 50% reimbursement from the Commonwealth. The assessment is complete, but specific action steps have not been developed. Additional planning, design, and needs assessment to generate specific recommendations with actions steps will occur prior to any renovation or construction. The Five-Year Plan includes \$3.0 million annually beginning in FY23 from the general fund to support debt service financing of chosen action steps. There is no budget and appropriation to this project in the FY2019 Budget.

Public Safety - Summary

Projects included within the Public Safety section impact Fire & Rescue, Judicial Administration, and Police. The following projects have dedicated project pages:

- Coles Fire & Rescue Station Reconstruction
- Nokesville Fire & Rescue Station Reconstruction
- Station 22 Fire & Rescue Station
- Station 27 Fire & Rescue Station
- Adult Detention Center Expansion - Phase II
- Courthouse Security System Replacement
- 911 Call Center Redundancy
- Animal Shelter Expansion & Renovation
- Police Body-Worn Cameras

Capital Improvement Program

- Public Safety Training Center (PSTC) Master Plan
- Physical Security Enhancements @ County Facilities

Other Public Safety capital initiatives are described below:

- A. Public Safety 800 MHz Radio Replacement** - The CIP includes a total of \$1,071,551 to replace public safety 800 MHz radios. The Adult Detention Center (\$60,982), Fire & Rescue (\$560,583), Police (\$394,029), Public Safety Communications (\$3,174), and the Sheriff's department (\$52,783) all contribute toward replacement. The total amount is a \$74,335 increase over the prior year.
- B. Bennett School/Judicial Center Feasibility Study** - This existing project is developing options for the Bennett School to relieve Judicial Center overcrowding. The historic Bennett School building is located adjacent to the County's Judicial Center within the Courthouse Complex. The total budget for the project is \$400,000. The planning study began in January 2018 (FY18) with options scheduled to be completed in summer 2018 (FY19).

Technology Improvement - Summary

Projects included within the Technology Improvement section include technology infrastructure and system upgrade projects. The following projects have dedicated project pages:

- 800 MHz Radio Communications System
- Adult Detention Center Information Management System
- Cable Equipment
- Computer-Aided Dispatch System
- Disaster Recovery/Business Continuity
- HRIS Electronic Document Management System (EDMS)
- Human Capital Management (HCM) Replacement
- I-NET
- Land Use Information System
- Public Safety Records Management System/Emergency Medical Services (EMS) System
- Qmatic Replacement
- Sheriff Information Management System
- Department of Social Services EDMS System
- Technology Infrastructure

Other Technology Improvement capital initiatives are described below:

- A. Web Site Redevelopment** - The CIP includes \$600,000 from the general capital reserve to redesign the web site experience and build services portals with the goal of improving the customer experience when interacting with the County online. More than ever, residents expect immediate and interactive access to information anytime, anywhere, and on any device. In addition, the project would shift to an open source platform and managed cloud services. The ongoing operating costs are estimated at \$216,000 annually. Those costs include a web developer position (to be hired in FY19) in the Office of Executive Management, Communications program (\$115,000), cloud hosting, and annual development costs (\$101,000). The annual development costs will ensure that added enhancements and service portals keep up with changing technology and customer expectations.

Capital Improvement Program

Transportation

Projects included within the Transportation section include roadway and pedestrian improvements. The following projects have dedicated project pages:

- Balls Ford Road Interchange
- Balls Ford Road Widening
- Fuller Road/Fuller Heights Road Improvements
- Minnieville Road (Spriggs Road to Route 234)
- Neabsco Mills Commuter Parking Lot
- Neabsco Mills Road (Route 1 to Dale Boulevard)
- Route 1 Improvements (Featherstone Road to Marys Way)
- Route 28 Phase 2 (Infantry Lane to Fitzwater Drive)
- Route 28 Phase 3 (Pennsylvania Avenue to Linton Hall Road)
- Transportation and Roadway Improvement Program (TRIP)
- Vint Hill Road (Schaeffer Lane to Sudley Manor Drive)

Other Transportation capital initiatives are described below:

- A. Northern Virginia Transportation Authority (NVTA) Funding for Transportation** - The CIP includes resources as a result of [House Bill 2313](#) which provides additional transportation funding for the Commonwealth of Virginia and the Northern Virginia region. The NVTA is the authorized regional entity responsible for project selection and implementation for the Northern Virginia region, which includes PWC.

Transportation funding benefiting PWC will be split into two categories.

- First, projects with regional congestion relief benefits will be funded by 70% of the NVTA funds.
- Second, the remaining 30% of NVTA funds will be transferred directly to the County for urban or secondary road construction, capital improvements that reduce congestion, projects included in the regional TransAction 2040 plan or its future updates, and/or for public transportation purposes. This funding may be used at the County's discretion.

The following table shows active projects utilizing, or projected to use, the two types of NVTA funding:

NVTA Funding Applied to Active Transportation Capital Projects			
Name of Project	NVTA 70%	NVTA 30%	Total
Minnieville Road (Spriggs Road to Route 234)	\$0	\$19,950,000	\$19,950,000
Neabsco Mills Road (Route 1 to Dale)	\$0	\$6,000,000	\$6,000,000
Route 1 (Featherstone Road to Marys Way)	\$63,400,000	\$0	\$63,400,000
Route 28 Godwin Drive Extension Study	\$2,500,000	\$0	\$2,500,000
Route 28 Phase 2 (Infantry Lane to Fitzwater Drive)	\$28,000,000	\$1,500,000	\$29,500,000
Route 28 Phase 3 (Pennsylvania Avenue to Linton Hall)	\$26,700,000	0	\$26,700,000
Telegraph Road & Horner Road Traffic Signal	\$0	\$650,000	\$650,000
Total	\$120,600,000	\$28,100,000	\$148,700,000

Since FY17, the total NVTA 30% funding is split and provides support to both Virginia Railway Express (VRE) and County-managed road construction projects. Additional information about the NVTA 30% funding allocated to VRE can be found in the Community Development, Transit section of the budget document.

Capital Improvement Program

The specific amounts planned for transfer to VRE included within the six-year CIP include:

NVTA 30% Transfer to VRE	
Fiscal Year	Amount
2019	\$6,183,745
2020	\$6,183,745
2021	\$6,369,257
2022	\$6,369,257
2023	\$6,560,335
2024	\$6,560,335
Total	\$38,226,674

The portion of NVTA allocation dedicated to roads will fund improvements that increase County and regional connectivity throughout the transportation network and help alleviate congestion. The County began receiving funding allocations in FY14. Future road construction funding will be allocated to BOCS approved local road priorities eligible for NVTA local (30%) funding, including:

- Neabsco Mills Road Widening (Route 1 to Dale Boulevard) - *current project in CIP*
- University Boulevard (Sudley Manor Drive to Devlin Road)
- Telegraph/Summit School Road (Minnieville Road to existing)
- Van Buren Road (Route 234 to Cardinal Drive)
- Balls Ford Road (Ashton Avenue to Groveton Road) - *current project in CIP*
- Wellington Road (Devlin Road to Route 234 Bypass)

Future NVTA 30% revenues designated for road construction will be allocated as projects are identified.

- B. Satisfying the Commercial & Industrial Tax Requirement of NVTA** - Legislation approving the NVTA funding mechanism requires that jurisdictions implement a commercial and industrial tax or designate an equivalent amount for transportation purposes. The tax or the equivalent must be deposited in a separate, distinct fund. The County has chosen to designate an equivalent, using transportation debt service. The budget equivalent amount in FY19 is \$10.5 million.
- C. Route 1/Route 123 Underground Utilities** - In [BOCS Resolution 13-706](#), approved December 3, 2013, the BOCS approved the use of \$12.1 million from the capital reserve and recordation tax revenue fund balance to support the undergrounding of utilities in conjunction with the Virginia Department of Transportation's (VDOT) roadway improvement project at the Route 1/Route 123 intersection in Woodbridge. The funds are provided to VDOT on a reimbursement basis. As of May 2018, \$10.7 million has been provided.
- D. Recordation Tax Revenue Growth** - The BOCS has designated future growth of recordation tax revenue, generated when deeds are recorded, to support transportation projects. In addition, the projected FY18 recordation tax fund balance is \$5.0 million and is available for transportation projects. A portion of the fund balance will be used in FY19 to support mobility debt service and TRIP contributions. Remaining fund balance is available to be allocated through the CIP in the future.
- E. Transportation Roadway Improvement Program (TRIP) Contribution** - TRIP consists of capital funding in each of the seven magisterial districts for the construction of small-scale capital improvements to Prince William County's local roadways and other transportation facilities. The CIP responds to a BOCS directive to recommend a funding source for future TRIP contributions as part of the FY19 budget process. Each district will receive \$225,000 in FY19. The funding source is recordation tax revenue designated for transportation. Detail on the additional funding and existing projects can be found on the TRIP project page.

Capital Improvement Program

- F. Small-Scale Transportation Projects** - The CIP includes a number of small scale safety improvements to County roadway, trail, sidewalk, and other transportation facilities, including:
- **Beverly Mill Restoration** - This project is a pass-through contribution to support the restoration work at Beverley Mill (or Chapman’s Mill). The total budget for this project is \$213,000. Note, this project is not a transportation facility, but the funds are disbursed by VDOT are managed by County Transportation staff and therefore reported in this section.
 - **Blackburn Road Parking/Commuter Lot** - This project will design and construct a paved parking area to accommodate approximately 100 vehicles at Rippon Landing Park. The total budget is \$1.1 million.
 - **Dumfries Road Shared Use Path North** - This project will provide a pedestrian path along Dumfries Road (Route 234) in the Potomac Magisterial District. The total budget for this project is \$2.9 million.
 - **Route 28: Godwin Drive Extended Study** - This project is studying options related to extension of Godwin Drive. The total budget is \$2.5 million.
 - **Southampton Pedestrian Improvement** - This project will provide pedestrian path access along Southampton Street in Woodbridge. The total budget is \$530,000.
- G. Six-Year Secondary Road Plan** - The Six-Year Secondary Road Plan is the VDOT method of establishing road improvement priorities and allocating funding for road improvements in the County’s secondary road system. Secondary roads are defined as roads with state route numbers of 600 or greater. Each county in Virginia receives a specified amount of formulaic funding for road improvement projects. Funds are reimbursed for previously constructed projects as well as continued progress on current and future road projects.

On June 20, 2017, the BOCS adopted VDOT’s FY2018-2023 Six-Year Secondary Road Plan ([BOCS Resolution 17-272](#)). The total FY18-23 allocation is \$864,374. There are several potential roadway improvement projects that may utilize the funding. The following table details the estimated secondary road plan funding in the State’s plan:

Six-Year Secondary Road Plan							
Name of Project	FY18	FY19	FY20	FY21	FY22	FY23	TOTAL
Six-Year Secondary Road Plan	\$124,801	\$143,563	\$137,976	\$193,729	\$112,220	\$152,085	\$864,374

Projected funding is estimated. Future allocations are contingent upon State funding.

Capital Improvement Program

Significant Operating Impacts

Several capital projects have significant general fund financial impacts in future years of the Five-Year Plan. The following table illustrates both program and facility operating costs (including debt service) along with new personnel (measured in full-time equivalents) resulting from project implementation.

Significant Operating Impacts							
Adult Detention Center Expansion	FY19	FY20	FY21	FY22	FY23	FY24	TOTAL
New Personnel (FTEs)	45.00	27.00	0.00	0.00	0.00	0.00	72.00
Program & Facility Operating	\$5,047,377	\$8,910,372	\$9,442,779	\$9,396,127	\$8,806,623	\$8,760,258	\$50,363,536
Total Operating Costs	\$5,047,377	\$8,910,372	\$9,442,779	\$9,396,127	\$8,806,623	\$8,760,258	\$50,363,536
Animal Shelter Expansion	FY19	FY20	FY21	FY22	FY23	FY24	TOTAL
New Personnel (FTEs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Program & Facility Operating	\$0	\$2,041,830	\$2,124,390	\$2,023,780	\$1,991,999	\$1,960,219	\$10,142,218
Total Operating Costs	\$0	\$2,041,830	\$2,124,390	\$2,023,780	\$1,991,999	\$1,960,219	\$10,142,218
Fire & Rescue Station #22	FY19	FY20	FY21	FY22	FY23	FY24	TOTAL
New Personnel (FTEs)	0.00	0.00	14.00	0.00	0.00	0.00	14.00
Program & Facility Operating	\$0	\$1,432,636	\$3,348,215	\$3,007,459	\$2,973,528	\$2,939,597	\$13,701,435
Total Operating Costs	\$0	\$1,432,636	\$3,348,215	\$3,007,459	\$2,973,528	\$2,939,597	\$13,701,435
Fire & Rescue Station #27	FY19	FY20	FY21	FY22	FY23	FY24	TOTAL
New Personnel (FTEs)	0.00	0.00	0.00	10.00	14.00	0.00	24.00
Program & Facility Operating	\$0	\$0	\$0	\$1,644,643	\$4,743,517	\$4,743,517	\$11,131,677
Total Operating Costs	\$0	\$0	\$0	\$1,644,643	\$4,743,517	\$4,743,517	\$11,131,677

Capital Improvement Program

Completed Capital Improvement Projects

The following projects included in the [FY2018-2023 CIP](#) are scheduled to be completed (or substantially complete) in FY18.

Community Development

Ali Krieger Sports Complex at Potomac Shores - This project constructed two soccer fields with artificial turf lights, a concession building with comfort facilities, and a children's playground. Completion occurred in June 2018 (FY18).



WaterWorks Children's Pool Replacement - This project replaces the children's pool areas and other improvements to the aquatic facility. Completion is scheduled to occur in summer 2018 (FY18).



Capital Improvement Program

Public Safety

Charlie T. Deane (Central District) Police Station - This project constructs a new mid-County station located on Davis Ford Road. The project was completed in spring 2018.



Fire & Rescue Station #26 - This project constructed a new mid-County station located on Davis Ford Road. The station was completed in October 2017.



Gainesville Fire & Rescue Station Renovation - This project renovates and constructs additional space in the existing station located on John Marshall Highway. The project is scheduled to be completed in summer 2018.

General District Courtroom #6 - This project constructs a sixth courtroom for the General District Court on the second floor of the Judicial Center complex in Manassas. Completion occurred in January 2018.



Capital Improvement Program

Technology Improvement

Financial Information Management System/Ascend - This project replaced the County's financial information management system. The project is scheduled to be completed in summer 2018.

Microwave Radio Transmitters on Central Rings - This project replaced radio transmitters that support voice and data communication links for public safety personnel. The project is scheduled to be completed in summer 2018.

Transportation

Dumfries Road (Route 234) Shared Use Path South (Four Seasons Drive to Talon Drive) - This project added a pedestrian and bicycle path adjacent to Route 234 between Four Seasons Drive to Talon Drive. The path was completed in January 2018.



Dumfries Road Left Turn on Hoadly Road - This project will add an additional left turn lane from Dumfries Road (Route 234) to Hoadly Road. The improvement is scheduled to be completed in June 2018.



Capital Improvement Program

FY2019-2024 CIP Functional Area Summary

The following tables show projected FY19-24 capital expenditures by functional area for the County government totaling \$634.7 million. The Schools projected capital expenditures total \$1.09 billion. The combined projected capital expenditures total \$1.72 billion.

FY19-FY24 Projected Expenditures							
Community Development							
	FY19	FY20	FY21	FY22	FY23	FY24	FY19-24
Parks & Recreation							
Broad Run Trail	\$0	\$399,459	\$0	\$0	\$0	\$0	\$399,459
Catharpin Park Phase 2	\$563,043	\$1,300,000	\$2,000,000	\$1,000,000	\$0	\$0	\$4,863,043
Catharpin Trail	\$0	\$29,538	\$0	\$0	\$0	\$0	\$29,538
Covered Storage at Maintenance Facilities	\$300,000	\$150,000	\$0	\$0	\$0	\$0	\$450,000
Cloverdale Park Parking Expansion	\$200,000	\$0	\$0	\$0	\$0	\$0	\$200,000
Harbor Drive Park	\$525,000	\$175,000	\$0	\$0	\$0	\$0	\$700,000
Lake Ridge Trail	\$843,031	\$0	\$0	\$0	\$0	\$0	\$843,031
Locust Shade Pk Maint Bldg	\$805,000	\$270,000	\$0	\$0	\$0	\$0	\$1,075,000
Locust Shade Pk Waterline	\$589,432	\$1,350,000	\$0	\$0	\$0	\$0	\$1,939,432
Long Park Auxillary Bldg	\$150,000	\$400,000	\$100,000	\$0	\$0	\$0	\$650,000
PHNST-Featherstone	\$604,012	\$0	\$0	\$0	\$0	\$0	\$604,012
PHNST-Neabsco Crk Bwalk	\$273,067	\$0	\$0	\$0	\$0	\$0	\$273,067
PHNST-Occoquan	\$258,651	\$845,817	\$0	\$0	\$0	\$0	\$1,104,468
Rollins Ford Park	\$2,000,000	\$4,218,578	\$1,000,000	\$0	\$0	\$0	\$7,218,578
Subtotal	\$7,111,236	\$9,138,392	\$3,100,000	\$1,000,000	\$0	\$0	\$20,349,628
Solid Waste							
Eco Park - Planning	\$317,032	\$0	\$0	\$0	\$0	\$0	\$317,032
Ldfill Caps-Seq 4	\$2,000,000	\$0	\$0	\$0	\$0	\$0	\$2,000,000
Ldfill Caps-Seq 5	\$0	\$0	\$0	\$4,640,000	\$0	\$0	\$4,640,000
Ldfill Liner-Ph 3, Cell A	\$1,600,000	\$0	\$4,470,000	\$0	\$0	\$0	\$6,070,000
Ldfill Liner-Ph 3, Cell B	\$0	\$0	\$80,000	\$0	\$0	\$2,590,000	\$2,670,000
Subtotal	\$3,917,032	\$0	\$4,550,000	\$4,640,000	\$0	\$2,590,000	\$15,697,032
Watershed Management							
B. Run Str Restr/Retrofit	\$250,000	\$500,000	\$0	\$500,000	\$250,000	\$1,500,000	\$3,000,000
Broad Run SWM Retrofit	\$0	\$0	\$0	\$0	\$150,000	\$150,000	\$300,000
Cow Branch Phase 4	\$312,000	\$1,560,000	\$300,000	\$0	\$800,000	\$0	\$2,972,000
Reach 5 Str Restr/489	\$0	\$136,000	\$0	\$723,400	\$1,825,800	\$0	\$2,685,200
Marumscoc Ck SWM Retrofit	\$0	\$0	\$0	\$0	\$0	\$150,000	\$150,000
Powell's SS-725 Restr Ph1	\$1,200,000	\$0	\$3,000,000	\$2,650,000	\$300,000	\$2,500,000	\$9,650,000
SWM Facility 377-WQR	\$300,000	\$0	\$0	\$0	\$0	\$0	\$300,000
SWM Facility 858-WQR	\$300,000	\$0	\$250,000	\$0	\$0	\$0	\$550,000
Subtotal	\$2,362,000	\$2,196,000	\$3,550,000	\$3,873,400	\$3,325,800	\$4,300,000	\$19,607,200
Historic Preservation							
HP Maint & Safety	\$63,173	\$0	\$0	\$0	\$0	\$0	\$63,173
Subtotal	\$63,173	\$0	\$0	\$0	\$0	\$0	\$63,173
Building & Facility Capital Program							
Facility Maintenance Projects	\$6,650,000	\$1,000,000	\$1,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$17,650,000
Subtotal	\$6,650,000	\$1,000,000	\$1,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$17,650,000
Community Development Grand Total	\$20,103,441	\$12,334,392	\$12,200,000	\$12,513,400	\$6,325,800	\$9,890,000	\$73,367,033
Human Services							
	FY19	FY20	FY21	FY22	FY23	FY24	FY19-24
Human Services							
HS 'No Wrong Door' Study	\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000
Juvenile Detention Center Improvements	\$0	\$0	\$0	\$0	\$3,000,000	\$3,000,000	\$6,000,000
Human Services Grand Total	\$100,000	\$0	\$0	\$0	\$3,000,000	\$3,000,000	\$6,100,000

Capital Improvement Program

FY2019-2024 CIP Functional Area Summary (Continued)

FY19-FY24 Projected Expenditures							
Public Safety							
	FY19	FY20	FY21	FY22	FY23	FY24	FY19-24
Fire & Rescue							
Coles F&R Station Reconstruction	\$3,925,026	\$0	\$0	\$0	\$0	\$0	\$3,925,026
Nokesville F&R Station Reconstruction	\$6,678,388	\$1,638,000	\$0	\$0	\$0	\$0	\$8,316,388
Station 22 (West End)	\$3,910,000	\$8,215,100	\$0	\$0	\$0	\$0	\$12,125,100
Station 27 (East End)	\$0	\$0	\$275,000	\$775,000	\$7,650,000	\$5,300,000	\$14,000,000
Subtotal	\$14,513,414	\$9,853,100	\$275,000	\$775,000	\$7,650,000	\$5,300,000	\$38,366,514
Judicial Administration							
ADC Expansion Phase 2	\$21,113,748	\$18,635,479	\$0	\$0	\$0	\$0	\$39,749,227
Bennett Sch/Jud Ctr Study	\$300,378	\$0	\$0	\$0	\$0	\$0	\$300,378
Courthouse Security Sys	\$2,534,482	\$1,921,000	\$0	\$0	\$0	\$0	\$4,455,482
Subtotal	\$23,948,608	\$20,556,479	\$0	\$0	\$0	\$0	\$44,505,087
Police							
911 Call Center Redundancy	\$510,000	\$510,000	\$0	\$0	\$0	\$0	\$1,020,000
Animal Shelter Expansion	\$3,340,000	\$6,968,665	\$3,458,338	\$0	\$0	\$0	\$13,767,003
Body Cameras	\$675,506	\$0	\$0	\$0	\$0	\$0	\$675,506
PSTC Mstr Plan & P1	\$300,000	\$50,000	\$0	\$0	\$0	\$0	\$350,000
Security at Cty Facilities	\$703,000	\$982,000	\$327,000	\$0	\$0	\$0	\$2,012,000
Subtotal	\$5,528,506	\$8,510,665	\$3,785,338	\$0	\$0	\$0	\$17,824,509
Public Safety Grand Total	\$43,990,528	\$38,920,244	\$4,060,338	\$775,000	\$7,650,000	\$5,300,000	\$100,696,110
Technology Improvement							
	FY19	FY20	FY21	FY22	FY23	FY24	FY19-24
Technology Improvements							
800 MHz - TIP	\$2,375,936	\$0	\$0	\$0	\$0	\$0	\$2,375,936
BCDR - Infrastruc - TIP	\$465,000	\$0	\$0	\$0	\$0	\$0	\$465,000
Cable Equipment	\$110,000	\$590,000	\$100,000	\$90,000	\$320,000	\$248,000	\$1,458,000
CAD - TIP	\$352,127	\$0	\$0	\$0	\$0	\$0	\$352,127
DSS EDMS - TIP	\$445,950	\$0	\$0	\$0	\$0	\$0	\$445,950
EnerGov Phases 1&2- TIP	\$845,361	\$0	\$0	\$0	\$0	\$0	\$845,361
Energov Phase 3 - TIP	\$183,000	\$0	\$0	\$0	\$0	\$0	\$183,000
HR EDMS - TIP	\$282,000	\$0	\$0	\$0	\$0	\$0	\$282,000
HRMS Replacement - TIP	\$2,208,070	\$6,724,000	\$4,000,000	\$0	\$0	\$0	\$12,932,070
INET (Cable) - TIP	\$0	\$0	\$0	\$0	\$650,000	\$0	\$650,000
Jail Mgmt Sys Med - TIP	\$65,416	\$0	\$0	\$0	\$0	\$0	\$65,416
Jail Mgmt Sys Ops - TIP	\$26,211	\$0	\$0	\$0	\$0	\$0	\$26,211
PS RM/EMSS - TIP	\$1,915,044	\$0	\$0	\$0	\$0	\$0	\$1,915,044
PWC Web Site Replacement	\$413,320	\$0	\$186,680	\$0	\$0	\$0	\$600,000
Qmatic Repl - TIP	\$148,054	\$0	\$0	\$0	\$0	\$0	\$148,054
Sheriff Info Sys - TIP	\$60,717	\$0	\$0	\$0	\$0	\$0	\$60,717
Technology Infrastructure - TIP	\$5,600,000	\$7,000,000	\$7,850,000	\$4,450,000	\$0	\$0	\$24,900,000
Technology Improvement Grand Total	\$15,496,206	\$14,314,000	\$12,136,680	\$4,540,000	\$970,000	\$248,000	\$47,704,886

Capital Improvement Program

FY2019-2024 CIP Functional Area Summary (Continued)

FY19-FY24 Projected Expenditures							
Transportation							
	FY19	FY20	FY21	FY22	FY23	FY24	FY19-24
Transportation							
Balls Ford Road Interchange	\$43,402,000	\$44,324,000	\$42,504,000	\$9,101,000	\$2,418,000	\$205,000	\$141,954,000
Balls Ford Road Widening	\$27,408,000	\$18,213,300	\$15,484,000	\$3,872,000	\$0	\$0	\$64,977,300
Beverley Mill Restoration	\$48,251	\$0	\$0	\$0	\$0	\$0	\$48,251
Blackburn Rd Improv	\$340,000	\$0	\$0	\$0	\$0	\$0	\$340,000
Catharpin Road Street Lights	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Dumfries Rd Path - N	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$1,000,000
Discovery Boulevard Extension	\$3,800,000	\$0	\$0	\$0	\$0	\$0	\$3,800,000
Enterprise Lane Swlk	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Fuller-Fuller Heights	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Minnieville: Spriggs-234	\$7,835,363	\$0	\$0	\$0	\$0	\$0	\$7,835,363
Neabsco Mills Rd Commuter Lot	\$584,000	\$3,615,000	\$19,585,000	\$12,585,000	\$0	\$0	\$36,369,000
Neabsco Mills Rd Widening	\$2,811,000	\$2,590,000	\$8,000,000	\$11,000,000	\$2,711,000	\$0	\$27,112,000
Old Bridge Rd Swlk	\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000
Rt 1: Ftherstone-Marys	\$29,000,000	\$27,880,114	\$13,306,883	\$4,000,000	\$0	\$0	\$74,186,997
Rt 28: Godwin Dr Ext Sty	\$794,533	\$0	\$0	\$0	\$0	\$0	\$794,533
Rt 28: Phase 2	\$14,000,296	\$2,698,667	\$0	\$0	\$0	\$0	\$16,698,963
Rt 28: Phase 3	\$4,994,229	\$11,856,000	\$8,618,000	\$0	\$0	\$0	\$25,468,229
Smoketwn/Opitz Ped Improv	\$200,000	\$0	\$0	\$0	\$0	\$0	\$200,000
Southampton Ped Improv	\$200,000	\$0	\$0	\$0	\$0	\$0	\$200,000
Vint Hill Rd Improv	\$4,109,695	\$1,583,000	\$0	\$0	\$0	\$0	\$5,692,695
Transportation Grand Total	\$140,677,367	\$112,760,081	\$107,497,883	\$40,558,000	\$5,129,000	\$205,000	\$406,827,331

FY19-FY24 Projected Expenditures							
Education							
	FY19	FY20	FY21	FY22	FY23	FY24	FY19-24
Education							
PW Parkway Elementary School	\$32,685,000	\$0	\$0	\$0	\$0	\$0	\$32,685,000
Antietam Elementary School Addition (13 rooms)	\$10,384,000	\$0	\$0	\$0	\$0	\$0	\$10,384,000
Lake Ridge Elementary School Addition (13 rooms)	\$10,884,000	\$0	\$0	\$0	\$0	\$0	\$10,884,000
Springwoods Elementary School Addition (13 rooms)	\$11,884,000	\$0	\$0	\$0	\$0	\$0	\$11,884,000
Leesylvania Elementary School Addition (4 rooms)	\$6,900,000	\$0	\$0	\$0	\$0	\$0	\$6,900,000
Minnieville Elementary School Addition (10 rooms)	\$12,043,000	\$0	\$0	\$0	\$0	\$0	\$12,043,000
Stonewall Middle School Addition (17 rooms)	\$17,130,000	\$0	\$0	\$0	\$0	\$0	\$17,130,000
Special Needs Transportation Center @ New Dominion	\$2,000,000	\$0	\$0	\$0	\$0	\$0	\$2,000,000
Western Transportation Facility	\$12,500,000	\$0	\$0	\$0	\$0	\$0	\$12,500,000
Site Acquisition Funds - 15th High School	\$15,000,000	\$0	\$0	\$0	\$0	\$0	\$15,000,000
Leesylvania Elementary School - Renewal (Funding Phase 1)	\$7,685,000	\$0	\$0	\$0	\$0	\$0	\$7,685,000
Marshall Elementary School - Renewal (Funding Phase 1a)	\$5,811,000	\$0	\$0	\$0	\$0	\$0	\$5,811,000
Montclair Elementary School - Renewal (Funding Phase 1a)	\$3,866,000	\$0	\$0	\$0	\$0	\$0	\$3,866,000
Old Bridge Elementary School - Renewal (Funding Phase 1a)	\$1,866,000	\$0	\$0	\$0	\$0	\$0	\$1,866,000
Beville Middle School - Renewal (Funding Phase 1a)	\$0	\$6,901,400	\$0	\$0	\$0	\$0	\$6,901,400
Mountain View Elementary - Renewal (Funding Phase 1a)	\$0	\$3,450,700	\$0	\$0	\$0	\$0	\$3,450,700
Middle School at Potomac Shores	\$0	\$0	\$64,119,000	\$0	\$0	\$0	\$64,119,000
13th High School (Hunter) (2,557 capacity)	\$0	\$0	\$127,400,000	\$0	\$0	\$0	\$127,400,000
Renewal of Various Schools (Bond-Funded portion)	\$0	\$0	\$27,658,300	\$0	\$0	\$0	\$27,658,300
Elementary School (Stonewall Area) ¹	\$0	\$0	\$0	\$37,156,000	\$0	\$0	\$37,156,000
Elementary School (Ocoquan/Woodbridge Area) ¹	\$0	\$0	\$0	\$0	\$39,018,000	\$0	\$39,018,000
Elementary School (Cherry Hill Area) ¹	\$0	\$0	\$0	\$0	\$39,018,000	\$0	\$39,018,000
Renewal of Various Schools (Bond-Funded portion)	\$0	\$0	\$0	\$0	\$21,207,000	\$0	\$21,207,000
Elementary School (Yorkshire Area) ¹	\$0	\$0	\$0	\$0	\$0	\$40,973,000	\$40,973,000
Middle School (West - Linton Hall Area)	\$0	\$0	\$0	\$0	\$0	\$74,238,000	\$74,238,000
14th High School (Mid-County) ¹ (2,557 capacity)	\$0	\$0	\$0	\$0	\$0	\$148,826,000	\$148,826,000
Renewal of Various Schools (Bond-Funded portion)	\$0	\$0	\$0	\$0	\$0	\$25,000,000	\$25,000,000
Additional Renewals & Repairs ²	\$16,767,000	\$25,504,000	\$53,755,000	\$57,613,000	\$61,473,000	\$65,703,000	\$280,815,000
Education Grand Total	\$167,405,000	\$35,856,100	\$272,932,300	\$94,769,000	\$160,716,000	\$354,740,000	\$1,086,418,400

Note: The education projects are based on the Prince William County Schools approved FY 2019-2028 Capital Improvements Program available at www.pwcs.edu.

- (1) Sites needed by proffer or purchase, current CIP includes limited land acquisition funds.
 (2) Primarily funded on cash basis, with a portion on renewals and repairs covered with bond funding.

Capital Improvement Program

Proffer Integration

PWC integrates developer contributions, or proffers, into the CIP. Proffers are contributions of land, capital improvements, and funding (monetary proffers) from developers to address the demand for community services created by new development. Including identified monetary proffers as funding sources for CIP projects reduces general tax support and makes projects more affordable for the community. The CIP includes \$4,099,390 in monetary proffers for projects in the FY19 Budget.

	Prior Years Proffers	FY19 Proffers Identified	Total Proffer Funding
Park & Recreation			
Broad Run Trail	\$484,782	\$0	\$484,782
Lake Ridge Trail	\$555,506	\$0	\$555,506
Neabsco Trail	\$55,558	\$0	\$55,558
PHNST-Featherstone	\$175,000	\$0	\$175,000
PHNST-Future Segments	\$485,817	\$0	\$485,817
PHNST-Heritage Harbor	\$85,000	\$0	\$85,000
PHNST-Neabsco Crk Bwalk	\$2,984,854	\$0	\$2,984,854
PHNST-Occoquan	\$232,700	\$0	\$232,700
PShores Sp Complex Improv	\$650,000	\$0	\$650,000
Rollins Ford Park	\$0	\$2,183,319	\$2,183,319
Subtotal	\$5,709,217	\$2,183,319	\$7,892,536
County Watershed			
County Watershed Improvements	\$0	\$41,574	\$41,574
Subtotal	\$0	\$41,574	\$41,574
Fire and Rescue			
Coles F&R Station	\$1,223,549	\$355,398	\$1,578,947
Nokesville F&R Station	\$2,463,163	\$0	\$2,463,163
Fire & Rescue Station 22	\$0	\$353,095	\$353,095
Subtotal	\$3,686,712	\$708,493	\$4,395,205
Transportation			
Balls Ford Widening Project	\$57,000	\$0	\$57,000
Blackburn Rd Improv	\$1,100,000	\$0	\$1,100,000
Dumfries Rd Path - N	\$2,000,000	\$0	\$2,000,000
Fuller-Fuller Heights	\$767,683	\$0	\$767,683
Minnieville: Spriggs-234	\$3,724,852	\$0	\$3,724,852
Rt 28: Phase 2	\$1,201,733	\$0	\$1,201,733
Southhampton Ped Improv	\$530,000	\$0	\$530,000
Vint Hill Rd Improv	\$11,034,469	\$1,166,004	\$12,200,473
Subtotal	\$20,415,737	\$1,166,004	\$21,581,741
Grand Total	\$29,811,666	\$4,099,390	\$33,911,056

Capital Improvement Program

Operating Impacts

The development and implementation of capital projects in PWC may be accompanied by significant on-going operating costs. Operating impacts include new costs that result from the construction of new capital assets and can include program, facility, personnel, and associated debt service costs. Operating funds are programmed into the Five-Year Plan and are budgeted when the project is completed and the improvement becomes a usable asset. Transportation maintenance costs are the responsibility of VDOT upon acceptance into the state system. As illustrated in the following table, the FY19-24 operating impact of the CIP is \$152.2 million.

Operating Impacts							
Project	FY19 Facility and Program Operating	FY20 Facility and Program Operating	FY21 Facility and Program Operating	FY22 Facility and Program Operating	FY23 Facility and Program Operating	FY24 Facility and Program Operating	Total
800 MHz - TIP	\$1,155,000	\$1,238,000	\$1,264,000	\$1,290,000	\$1,316,000	\$1,144,000	\$7,407,000
ADC Expansion Phase 2	\$5,047,377	\$8,910,372	\$9,442,779	\$9,396,127	\$8,806,623	\$8,760,258	\$50,363,536
Animal Shelter Expansion	\$0	\$2,041,830	\$2,124,390	\$2,023,780	\$1,991,999	\$1,960,219	\$10,142,218
BCDR - Infrastruc - TIP	\$8,578	\$8,578	\$8,578	\$8,578	\$8,578	\$8,578	\$51,468
CAD - TIP	\$1,365,000	\$1,419,000	\$1,476,000	\$1,531,000	\$1,588,000	\$1,647,000	\$9,026,000
DSS EDMS - TIP	\$82,000	\$84,000	\$86,000	\$89,000	\$93,000	\$94,000	\$528,000
EnerGov Phase 1&2 - TIP	\$231,410	\$241,325	\$251,736	\$264,322	\$277,538	\$291,415	\$1,557,746
Energov Phase 3 - TIP	\$38,000	\$39,900	\$39,845	\$43,837	\$45,879	\$47,973	\$255,434
F&R Station 22 (West End)	\$0	\$1,432,636	\$3,348,215	\$3,007,459	\$2,973,528	\$2,939,597	\$13,701,435
F&R Station 27 (East End)	\$0	\$0	\$0	\$1,644,643	\$4,743,517	\$4,743,517	\$11,131,677
HR EDMS - TIP	\$15,000	\$16,000	\$16,000	\$17,000	\$18,000	\$19,000	\$101,000
HCM Replacement - TIP	\$0	\$0	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$6,000,000
Jail Mgmt Sys Med - TIP	\$61,568	\$64,031	\$66,592	\$69,256	\$72,026	\$74,907	\$408,380
Jail Mgmt Sys Ops - TIP	\$13,008	\$13,008	\$13,008	\$13,008	\$13,008	\$13,008	\$78,048
Juvenile Detention Center Expansion	\$0	\$0	\$0	\$0	\$3,000,000	\$3,000,000	\$6,000,000
PHNST-Neabsco Crk Bwalk	\$184,222	\$109,222	\$109,222	\$109,222	\$109,222	\$109,222	\$730,332
Police Body Cameras	\$170,702	\$846,208	\$846,208	\$846,208	\$846,208	\$846,208	\$4,401,742
PS RM/EMSS - TIP	\$1,365,056	\$1,419,077	\$1,476,214	\$1,531,213	\$1,588,300	\$1,647,557	\$9,027,417
PSTC Mstr Plan & P1	\$0	\$0	\$0	\$3,000,000	\$3,500,000	\$3,500,000	\$10,000,000
PWC Web Site Redevelopment	\$114,697	\$132,975	\$216,295	\$216,295	\$216,295	\$216,295	\$1,112,852
Sheriff Info Sys - TIP	\$20,249	\$21,261	\$22,325	\$23,441	\$24,613	\$25,843	\$137,732
Technology Infrastructure	\$0	\$0	\$1,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$10,000,000
Total	\$9,871,867	\$18,037,423	\$23,307,407	\$29,624,389	\$35,732,334	\$35,588,597	\$152,162,017

Operating Impacts - Debt Service

Debt service costs are a component of capital project operating costs. Financing capital projects through debt requires on-going debt service payments throughout the life of the six-year CIP. The following table breaks out debt service costs as a component of operating impacts for capital projects. The FY19-24 debt service impact of the CIP is \$42.2 million.

Debt Service Impacts							
	FY19 Debt Service	FY20 Debt Service	FY21 Debt Service	FY22 Debt Service	FY23 Debt Service	FY24 Debt Service	Total
ADC Expansion Phase 2	\$209,358	\$2,493,297	\$2,471,904	\$2,425,104	\$1,835,600	\$1,788,800	\$11,224,063
Animal Shelter Expansion	\$0	\$1,341,830	\$1,310,050	\$1,278,270	\$1,246,489	\$1,214,709	\$6,391,348
Fire & Rescue Station 22 (Fire Levy)	\$0	\$1,432,636	\$1,398,705	\$1,364,774	\$1,330,843	\$1,296,912	\$6,823,870
Fire & Rescue Station 27 (Fire Levy)	\$0	\$0	\$0	\$0	\$1,400,000	\$1,365,000	\$2,765,000
Juvenile Detention Center Expansion	\$0	\$0	\$0	\$0	\$3,000,000	\$3,000,000	\$6,000,000
PSTC Expansion	\$0	\$0	\$0	\$3,000,000	\$3,000,000	\$3,000,000	\$9,000,000
Total	\$209,358	\$5,267,763	\$5,180,659	\$8,068,148	\$11,812,932	\$11,665,421	\$42,204,281

Capital Improvement Program

Infrastructure and Facilities Plan

Comprehensive Plan Unfunded Projects

The following facilities are identified in the County's [Comprehensive Plan](#) but are not currently funded in the six-year CIP. Other unfunded capital needs are listed in the Budget Development section of this document.

Unfunded Needs in the Comprehensive Plan	
Section/Facility/Location	Number
Fire and Rescue	
▪ Area One - Brentsville/Gainesville Districts	2 Stations
▪ Area Two - Brentsville/Gainesville Districts	1 Station
▪ Area Three - Brentsville/Potomac Districts	2 Stations
▪ Area Four - Brentsville/Coles/Neabsco/Occoquan Districts	4 Stations
Total	9 Stations
Libraries	
▪ Library Facility - Braemar	1 Library
▪ Library Facility - Southbridge	1 Library
Total	2 Libraries
Parks/Open Spaces	
▪ Neighborhood Park	288 Acres
▪ Community Park	1,299 Acres
▪ Regional Park	1,199 Acres
▪ Linear/Resource Based Park	1,538 Acres
Total	4,324 Acres
Telecommunication Monopole or Tower Sites	
▪ Bull Run Mountain	2 Facilities
▪ Cherry Hill	1 Facility
▪ Green Valley Water Tank Vicinity	1 Facility
▪ H.L. Mooney Plant	1 Facility
▪ Locust Shade Park	1 Facility
▪ Oakmont	1 Facility
▪ Old Antioch School Site	1 Facility
▪ Sudley North	1 Facility
Total	9 Facilities

Notes:

1. Unfunded Fire & Rescue needs may be mitigated depending on the location of Station 27 added in the FY2018-2023 CIP.

Capital Improvement Program

Transportation Unfunded Projects

The following roadways are identified in the County's [Comprehensive Plan](#) as existing or projected needs but are not currently funded in the six-year CIP.

FACILITY	TERMINI
Aden Rd	Rt-28 to Rt-234
Artemus Rd	Rt-15 to Rt-234 Bypass (North)
Bristow Rd	Rt-28 to Rt-234
Catharpin Rd	Rt-234 to Heathcote Dr
Catharpin Rd	Heathcote Dr to Rt-55
Cherry Hill Spine Rd	Congressional Way to end
Cockpit Point Connector Rd	Congressional Way to Cockpit Point Rd
Coverstone Dr	Ashton Ave to Rt-234 Business
Dale Blvd	Benita Fitzgerald Blvd to I-95
Devlin Rd	Linton Hall Rd to Wellington Rd
Farm Creek Rd	Featherstone Rd to Rippon Blvd
Fauquier Dr	Fauquier Co to Rt-28
Featherstone Rd	Rt-1 to Farm Creek Rd
Fitzwater Dr	Rt-28 to Aden Rd
Fleetwood Dr	Fauquier Co to Aden Rd
Gideon Dr	Dale Blvd to Smoketown Rd
Groveton Rd	Pageland La to Balls Ford Rd
Gum Springs Rd	Loudoun Co to Rt-234
Haymarket Bypass	Rt-15 to Rt-29
Haymarket Dr	Thoroughfare Rd to Old Carolina Rd
Hornbaker Rd	Wellington Rd to Shallow Creek
Horner Rd	Prince William Pkwy to Rt-123
I-66	Rt-15 to Rt-29
I-95	Fairfax Co to Rt-234
I-95	Rt-234 to Stafford Co
Longview Dr/Montgomery Ave	Prince William Pkwy to Opitz Blvd
Lucasville Rd	Manassas to Bristow Rd
McGraws Corner Dr	Somerset Crossing Dr to Rt-55
Neabsco Rd	Rt-1 to end
Old Carolina Rd	Rt-15 to Heathcote Blvd
Old Carolina Rd	Heathcote Blvd to Rt-29
Old Centreville Rd	Fairfax Co to Rt-28
Opitz Blvd	Gideon Dr to Rt-1

FACILITY	TERMINI
Pageland La	Rt-234 to Groveton Rd
Potomac Pkwy	Rt-1 to Cherry Hill Spine Rd
Powells Creek Blvd	Rt-1 to River Ridge Blvd
Prince William Pkwy	Hoadly Rd to Caton Hill Rd
Rippon Blvd	Rt-1 to Farm Creek Rd
Rixlew La	Wellington Rd to Rt-234 Business
Rollins Ford Rd	Rt-215 to University Blvd
Rt-1 (Jefferson Davis Hwy)	Brady's Hill to Dale Bld
Rt-1 (Jefferson Davis Hwy)	Featherstone Rd to Rt 123
Rt-15 (James Madison Hwy)	Loudoun Co to Rt 234
Rt-15 (James Madison Hwy)	Rt 29 to I-66
Rt-215 (Vint Hill Rd)	Fauquier Co to Rt-28
Rt-234 (Prince William Pkwy)	Rt-28 to Rt-234 (Dumfries Rd)
Rt-234 (Prince William Pkwy)	Rt-28 to I-66
Rt-28 (Nokesville Rd)	Fitzwater Dr to Fauquier County
Rt-29 (Lee Hwy)	Fauquier Co to Virginia Oaks Dr
Rt-29 (Lee Hwy)	Heathcote Dr to Rt 234 Bypass
Signal Hill Rd	Liberia Ave to Signal View Dr
Smoketown Rd	Minnieville Rd to Gideon Dr
Smoketown Rd	Griffith Ave to Old Bridge Rd
Summit School Rd	Minnieville Rd to Telegraph Rd
Telegraph Rd	Summit School Rd to Caton Hill Rd
Telegraph Rd	Caton Hill Rd to Prince William Pkwy
Telegraph Rd	Minnieville Rd to Summit School Rd
Van Buren Rd (North)	Cardinal Dr to Rt-234
Van Buren Rd (South)	Rt-234 to Mine Rd
Waterfall Rd	Mill Creek Rd to Rt-15
Waterway Dr	Rt-234 to Cardinal Dr
Wayside Dr	Rt-1 to Congressional Way
Wellington Rd	Rt-29 to Godwin Dr
Williamson Blvd	Rt-234 Business to Portsmouth Rd
Yates Ford Rd	Davis Ford Rd to Fairfax Co

Notes:

1. This list only includes major roadways. Lesser roadways, minor collectors, and local streets are addressed through the County's [Design and Construction Standards Manual \(DCSM\)](#).
2. This list is sorted alphabetically. For a list sorted by functional road classification (including Interstate, Parkway, Principal Arterial, Minor Arterial, or Major Collector), please see the [Thoroughfare Plan Map](#) in the County's Comprehensive Plan.

Capital Improvement Program

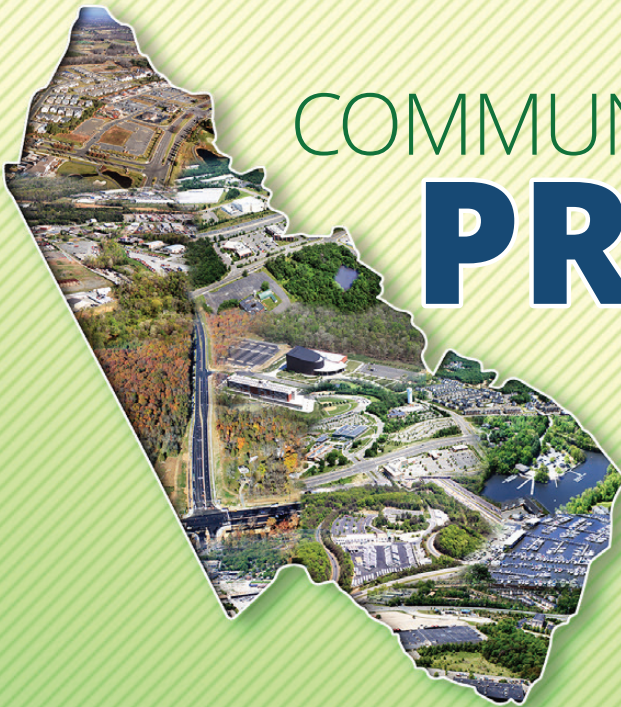
Parks & Recreation Unfunded Needs

The following Parks & Recreation projects have been identified as priority projects with each project is classified based on an investment strategy of Tier 1-4.

The tiers are defined as follows:

- **Tier 1: High Risk** - If unaddressed, will result in further environmental and/or safety risk exposure
- **Tier 2: Underfunded** - Projects partially complete, but lacking funds to deliver to 100% level
- **Tier 3: Unfunded** - Projects that have been identified, but received no funding to-date

Unfunded Needs - Parks & Recreation				
Tier #	Tier Title	Project Name	Project Amount	Funded in FY19
Tier 1	High Risk			
		Catharpin Park, Phase 2	\$4,300,000	Yes
		Covered Storage	\$450,000	Yes
		Fuller Heights stormwater management	\$1,380,000	Yes
		Locust Shade grounds maintenance shop	\$550,000	Yes
		Locust Shade waterline replacment	\$1,350,000	Yes
		Rollins Ford Park	\$2,700,000	Yes
		High Risk Total	\$10,730,000	
Tier 2	Underfunded			
		Broad Run Greenway	\$2,730,000	
		Neabsco Greenway	\$780,000	
		Occoquan Greenway	\$3,200,000	
		Underfunded Total	\$6,710,000	
Tier 3	Unfunded			
		Catharpin Park, Phase 1 comfort stations	\$650,000	
		Chinn field lights	\$1,000,000	
		Cloverdale parking expansion	\$200,000	Yes
		Fairmont Park Renovation	\$3,500,000	
		KP Gunner Dog Park renovations	\$500,000	
		Lake Ridge Park pavilion	\$150,000	
		Long Park - Intersection improvements	\$1,000,000	
		Long Park - Misc field improvements/lights	\$1,480,000	
		Long Park - Sewer line extension	\$830,000	
		Long Park - Soccer and baseball comfort stations	\$1,300,000	Partial
		Mayhew Park restroom	\$450,000	
		Nokesville Park field irrigation/lighting	\$1,120,000	
		Pat White Center at Ben Lomond (ADA renovations)	\$1,000,000	
		SBDCRC field lights and restroom	\$900,000	
		Tyler ES field lights	\$270,000	
		Valley View fields lights and pavilions	\$3,150,000	
		Valley View Grounds Maintenance Shop	\$5,500,000	
		Unfunded Total	\$23,000,000	
Tier 4	New Development			
		Chinn Center expansion	\$8,000,000	
		Davis Ford Park	\$0	
		Everest Peak Lane Park	\$0	
		Harbor Drive Park	\$700,000	Yes
		Splashdown expansion	\$16,000,000	
		New Development Total	\$24,700,000	
		Grand Total	\$65,140,000	



COMMUNITY DEVELOPMENT
PROJECTS

Building & Facility Capital Program

Total Project Cost - \$27.0M

Project Description

The CIP provides funding from the General Capital Reserve and Five-Year Plan for building and facility maintenance needs. The Building & Facility Capital Program addresses large-scale component replacement or repairs that cannot be accomplished with existing resources. The program invests in existing capital assets to extend the life of facilities and better serve the community.

The current maintenance budget provides some preventative and minor repairs; however, a lack of resources imposes a backlog of deferred replacement projects. This lack of resources forces a reactive management strategy that can increase safety risk, makes planning difficult, can result in higher levels of damage to facilities, result in higher repair costs, increase environmental risk, and risks greater facility downtime.

The County manages 180 buildings and park sites with a replacement value of almost \$600 million. Many of the facilities are 20+ years old and all of the facilities require maintenance. Public Works and Parks & Recreation are the County's primary facility owners. Maintenance ensures that County amenities are in good condition for community use and enhances the facilities useful lives to maximize taxpayer investment.

Industry best practices allot 2-3% of replacement value for component (cyclic) system replacement. This translates to approximately \$8.8 million to \$13.3 million per year in addition to the existing budget, which includes \$2.1 million annually to address cyclic facility maintenance needs. Each year agencies must make choices and sometimes delay required facility maintenance due to funding.

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	



<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	13,000	-	-	2,000	1,000	1,000	3,000	3,000	3,000	13,000	-
Capital Reserve	14,000	-	8,000	6,000	-	-	-	-	-	6,000	-
Total Revenue	\$27,000	-	\$8,000	\$8,000	\$1,000	\$1,000	\$3,000	\$3,000	\$3,000	\$19,000	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Construction	27,000	-	8,000	8,000	1,000	1,000	3,000	3,000	3,000	19,000	-
Total Expenditure	\$27,000	-	\$8,000	\$8,000	\$1,000	\$1,000	\$3,000	\$3,000	\$3,000	\$19,000	-

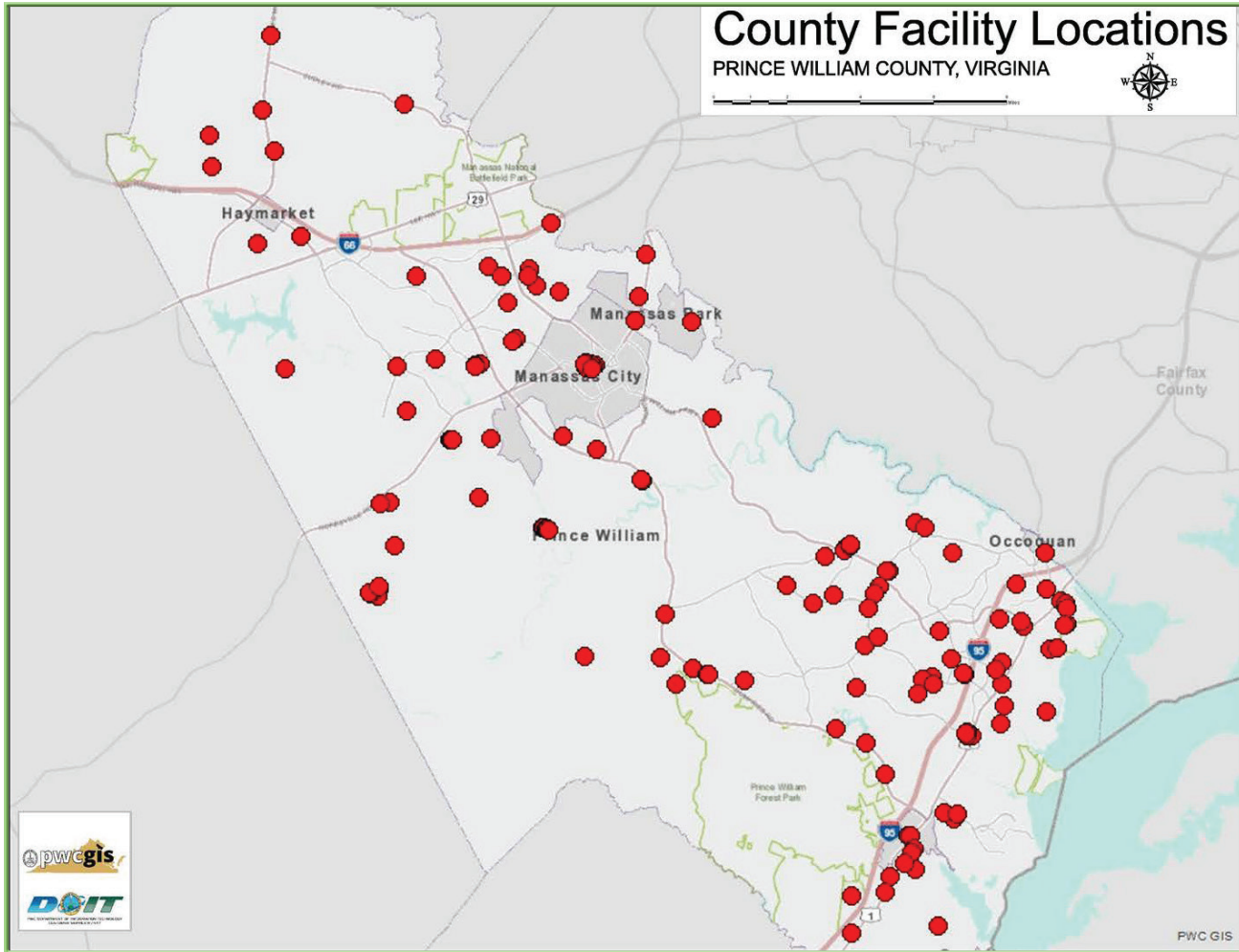
<i>Operating Impacts</i>											
	Operating Expenses	-	-	-	-	-	-	-	-	-	-
	Debt Service	-	-	-	-	-	-	-	-	-	-
	Revenue	-	-	-	-	-	-	-	-	-	-
	General Fund Requirement	-	-	-	-	-	-	-	-	-	-
	Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Building & Facility Capital Program



Building & Facility Capital Program



The County's PSFM supports investing in maintenance of facilities in Policy 4.06 stating, "The County will invest in ongoing, cyclical maintenance of existing capital asset with the goal of extending the life of facilities and assets."

The types of large-scale facility maintenance projects include:

- Replace heating, A/C, and water pump equipment.
- Resurface parking lots and sidewalks.
- Maintain buildings and structures (e.g., roofing, exterior, backup generators, security features).
- Maintain hardscaping (e.g., correcting erosion issues).
- Replace field lights and maintain and improve existing field surfaces.
- Replace playground equipment and recreational amenities.
- Resurface pools and replace filtration systems.
- Address ADA compliance.

Service Impact

- **Improved maintenance** - Projects will complete deferred maintenance on large-scale components with the goal of extending the life of County facilities and assets.

Funding Sources

- **Capital reserve use in FY18** - \$8.0M
- **Capital reserve use in FY19** - \$6.0M
- **General Fund in FY19** - \$2.0M
- **General Fund in FY20-24** - \$11.0M

Project Milestones

- **Design and project identification** began in July 2017 (FY18).
- **Project activity** began in September 2017 (FY18).
- **Project completion** is ongoing and planned to occur throughout FY18-FY20.

Catharpin Park – Phase 2

Total Project Cost - \$4.9M

Project Description

Build six rectangular grass fields that are irrigated and lighted. An auxiliary building will also be designed and constructed that will house restrooms, concessions, and storage. A well will be developed to provide potable water and supply water to the auxiliary building. The auxiliary building will utilize a pump and haul system as opposed to a sewer line or septic system.

Service Impact

- **Improve Sport Field Availability** - Construction of the sports fields will help meet sports field demand on the west end of the County. The additional fields will reduce congestion at Long Park and lead to more soccer tournaments by having permanent restrooms near the fields.

Funding Sources

- **Capital reserve** - \$4.3M
- **Developer contributions (proffers)** - \$500K
- **General fund** - \$112K

Project Milestones

- **Design** began in FY17 and is scheduled to be completed by March 2019 (FY19).
- **Construction** is anticipated to begin April 2019 (FY19) for completion in August 2020 (FY21).
- **Occupancy** is scheduled for September 2020 (FY21).



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	
Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	



<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	112	102	10	-	-	-	-	-	-	-	-
Capital Reserve	4,300	-	-	4,300	-	-	-	-	-	4,300	-
Proffers	500	-	500	-	-	-	-	-	-	-	-
Total Revenue	\$4,912	\$102	\$510	\$4,300	-	-	-	-	-	\$4,300	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	102	22	16	63	-	-	-	-	-	63	-
Construction	4,800	0	-	500	1,300	2,000	1,000	-	-	4,800	-
Project Management	11	11	-	-	-	-	-	-	-	-	-
Total Expenditure	\$4,912	\$33	\$16	\$563	\$1,300	\$2,000	\$1,000	-	-	\$4,863	-

<i>Operating Impacts</i>											
	Operating Expenses	-	-	-	-	-	-	-	-	-	-
	Debt Service	-	-	-	-	-	-	-	-	-	-
	Revenue	-	-	-	-	-	-	-	-	-	-
	General Fund Requirement	-	-	-	-	-	-	-	-	-	-
	Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Harbor Drive Park

Total Project Estimate - \$1.2M (Current appropriation - \$700K)

Project Description

Harbor Drive Park will be a 2.3 acre neighborhood park located at 13030 Harbor Drive in Lake Ridge.

The total estimate to complete the project is currently \$1.2M. Additional funding beyond the current \$700K will need to be identified to complete all phases. The additional \$500K to meet the current project estimate may be available through a grant from a private entity. The project cost will be re-estimated during the design phase.

Service Impact

- **Increase open space and passive recreation opportunities** - This park will feature amenities for active and passive recreation as well as a community garden space.

Funding Sources

- **General fund** - \$700K
- **Additional funding sources TBD** - \$500K (According to current project estimate)
- **Annual maintenance costs** will be provided by the general fund. In addition, it is expected community volunteers will provide clean up and maintenance, potentially reducing the need for tax support.

Note: Project cost will be re-estimated during the design phase of the project.



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

Project Milestones

- **Design** is scheduled to begin in March 2019 (FY19).
- **Construction** schedule is subject to design schedule.
- **Occupancy** schedule is subject to construction schedule.

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	700	-	-	700	-	-	-	-	-	700	-
Revenue Source TBD	500	-	-	-	-	-	-	-	-	-	500
Total Revenue	\$1,200	-	-	\$700	-	-	-	-	-	\$700	\$500

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	125	-	-	-	-	-	-	-	-	-	125
Construction	1,075	-	-	-	-	-	-	-	-	-	1,075
Total Expenditure	\$1,200	-	-	-	-	-	-	-	-	-	\$1,200

Operating Impacts

Operating Expenses	-	-	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-	-	-	-	-
Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Locust Shade Park Grounds Maintenance Shop

Total Project Cost - \$1.3M

Project Description

Design and construct a 3,000 square foot maintenance shop to house 18-20 Parks & Recreation grounds maintenance staff. The facility will also include one bay for Parks & Recreation Fleet personnel to work on equipment. Currently, grounds maintenance staff uses a 20' x 19' building that also houses their equipment. The project includes lean-to shelters to cover equipment while outside.

Service Impact

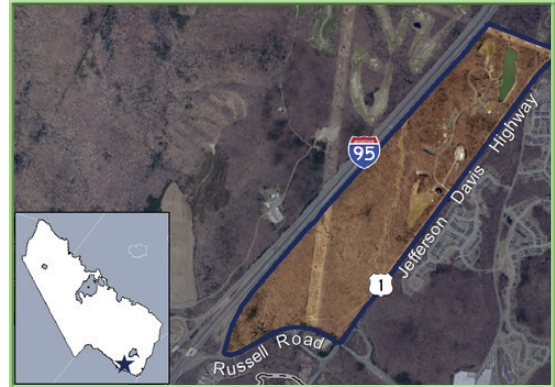
- **Improved efficiency and reduced dispatch time** - Dispatching maintenance crews will be more efficient due to a more functional location on the eastern end of the County. Equipment life span will be enhanced in an enclosed, secure facility.

Funding Sources

- **General fund** - \$750K
- **Capital Reserve** - \$550K

Project Milestones

- **Design** was completed in October 2017 (FY18).
- **Construction** is scheduled to begin fall 2018 (FY19) to be completed in fall 2019 (FY20).
- **Occupancy** is scheduled for fall 2019 (FY20).



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	750	750	-	-	-	-	-	-	-	-	-
Capital Reserve	550	-	-	550	-	-	-	-	-	550	-
Total Revenue	\$1,300	\$750	-	\$550	-	-	-	-	-	\$550	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	225	54	170	-	-	-	-	-	-	-	-
Construction	1,075	-	-	805	270	-	-	-	-	1,075	-
Total Expenditure	\$1,300	\$54	\$170	\$805	\$270	-	-	-	-	\$1,075	-

<i>Operating Impacts</i>	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Operating Expenses	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-	-	-
Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Locust Shade Park Water Line Replacement

Total Project Cost - \$2.4M

Project Description

There is a critical need to install a new water main line at Locust Shade Park. The existing water line is under Route 1 and is more than 40 years old. The water line has broken four times since 2007 and the repair costs have exceeded \$150,000. Water line breaks have caused damage to Route 1, shutting down lanes of traffic, and is a safety concern for drivers. In late September 2014, there was a break in the main which required a 40-foot section of Route 1 to be milled and re-paved.

Additionally, the existing water line does not provide the quantity or pressure needed for the existing facilities at Locust Shade Park and Forest Greens Golf Course. When there is a large event, such as a Scout camp at the Park, the water line cannot provide enough water or water pressure to operate the restrooms. There is no alternative water source for the park.

Service Impact

- **Improved water availability** – Replacing the water line will enhance public water availability to existing structures and customers within the park.
- **Reduced maintenance and impact on Route 1** – Replacing the water line will eliminate the occurrence of water line breaks under Route 1 and impacts on traffic flow on the roadway during line breaks.

Funding Sources

- **General fund** - \$1.0M
- **Building and Facilities Capital Program** - \$1.4M



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	
Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

Project Milestones

- **Design** was completed in September 2017 (FY18).
- **Construction** is scheduled to begin in FY19.

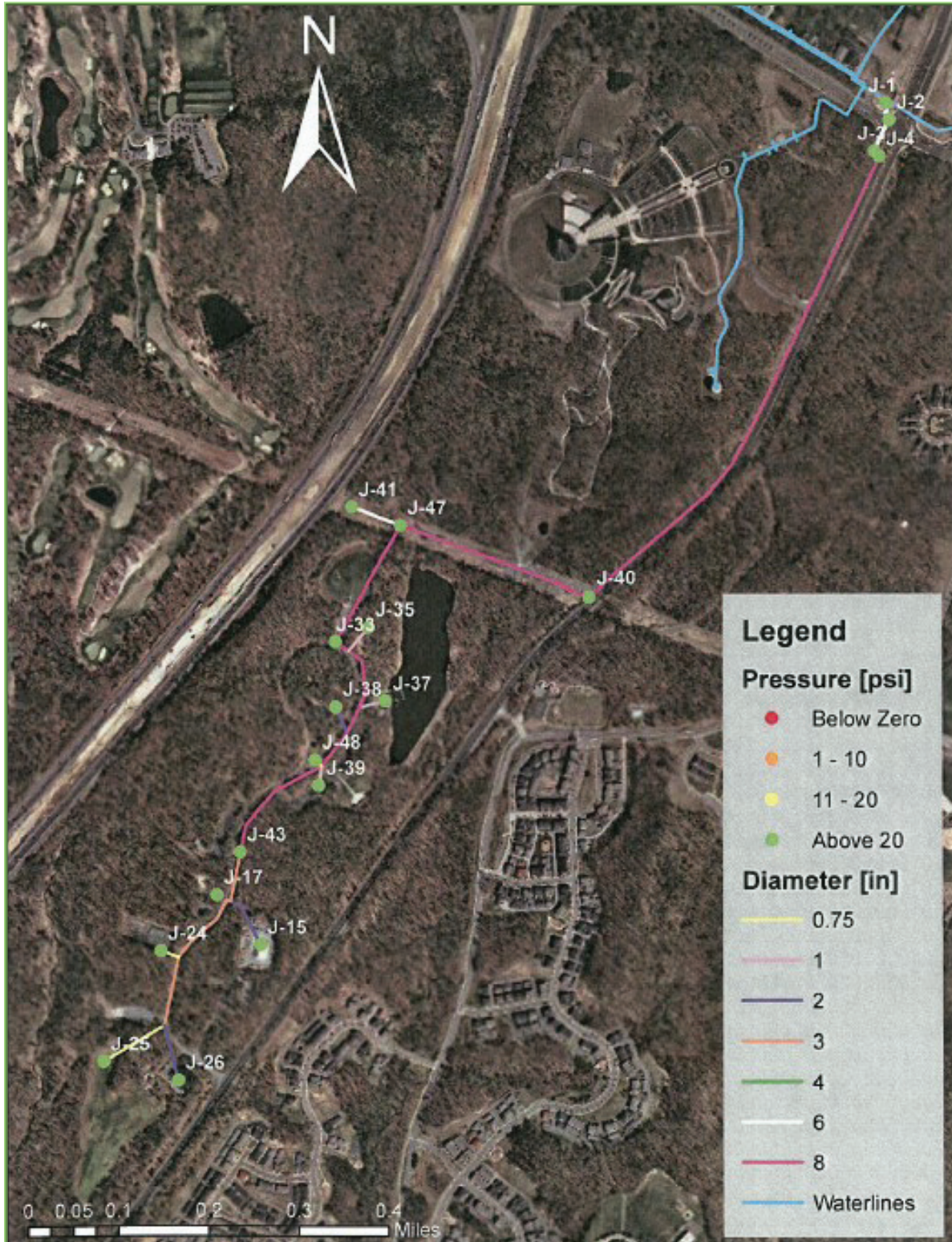
<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	1,000	1,000	-	-	-	-	-	-	-	-	-
Capital Reserve	1,350	-	-	1,350	-	-	-	-	-	1,350	-
Total Revenue	\$2,350	\$1,000	-	\$1,350	-	-	-	-	-	\$1,350	-

<i>Cost Categories (Expenditures)</i>	411	186	224	-	-	-	-	-	-	-	-
Design/Planning	411	186	224	-	-	-	-	-	-	-	-
Construction	1,939	-	-	589	1,350	-	-	-	-	1,939	-
Total Expenditure	\$2,350	\$186	\$224	\$589	\$1,350	-	-	-	-	\$1,939	-

<i>Operating Impacts</i>										
	Operating Expenses	-	-	-	-	-	-	-	-	-
	Debt Service	-	-	-	-	-	-	-	-	-
	Revenue	-	-	-	-	-	-	-	-	-
	General Fund Requirement	-	-	-	-	-	-	-	-	-
	Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Locust Shade Park Water Line Replacement



Option 2, Extended Meter Diameter [in]: 4 Irrigation: On

Long Park Auxiliary Bldg/Sewer Connection (Front)

Total Project Cost - \$650K

Project Description

Design and construct an auxiliary building in the front of Long Park where the soccer fields are located that will house restrooms, concessions, and office space. The project will also include a sewer line connection from the road to the facility.

Service Impact

- **Increase Active Recreation Opportunities** - This project will increase sports participation visits and customer satisfaction ratings in the County. It will also lead to more soccer tournaments by having permanent restrooms near the artificial turf fields.

Funding Sources

- **General fund** - \$650K

Project Milestones

- **Design** is scheduled to begin in July 2018 (FY19) to be completed in March 2019 (FY19).
- **Construction** is scheduled to begin April 2019 (FY19) and to be completed July 2019 (FY20).
- **Occupancy** is scheduled for August 2019 (FY20)



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	



<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	650	-	-	650	-	-	-	-	-	650	-
Total Revenue	\$650	-	-	\$650	-	-	-	-	-	\$650	-

Cost Categories (Expenditures)

Design/Planning	50	-	-	50	-	-	-	-	-	50	-
Construction	600	-	-	100	500	-	-	-	-	600	-
Total Expenditure	\$650	-	-	\$150	\$500	-	-	-	-	\$650	-

Operating Impacts

Operating Expenses	-	-	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-	-	-	-	-
Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Potomac Heritage National Scenic Trail

Current Project Cost - \$6.8M

Project Description

This project constructs trail segments of the Potomac Heritage National Scenic Trail (PHNST). The PHNST is designed to be a multi-use trail through the County and is part of the national trail that links the Potomac and upper Ohio River basins. The total cost of completing all segments will be developed as the final alignment of the trail is determined.

Service Impact

- **Increase open space and passive recreation opportunities** - Provides dedicated trail segments for walking, jogging, and biking and makes progress toward the goals of the Parks, Open Space and Trails chapter in the County's Comprehensive Plan.

Funding Sources

- **General fund** - \$2.3M
- **Developer contributions (proffers)** - \$3.9M
- **Federal funds** - \$568K
- **Other funding sources** - \$15K

Note: Final construction of all planned trail segments will not occur until additional funding is available.



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	
Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	2,289	2,289	-	-	-	-	-	-	-	-	-
Capital Reserve	15	15	-	-	-	-	-	-	-	-	-
Federal Rev	568	568	-	-	-	-	-	-	-	-	-
Proffers	3,963	3,118	846	-	-	-	-	-	-	-	-
Total Revenue	\$6,836	\$5,990	\$846	-	-	-	-	-	-	-	-

Cost Categories (Expenditures)

Design/Planning	26	7	19	-	-	-	-	-	-	-	-
Construction	6,506	213	4,311	1,136	846	-	-	-	-	1,982	-
Right of Way/Land	24	-	24	-	-	-	-	-	-	-	-
Project Management	22	22	-	-	-	-	-	-	-	-	-
Conversion	259	259	-	-	-	-	-	-	-	-	-
Total Expenditure	\$6,836	\$500	\$4,354	\$1,136	\$846	-	-	-	-	\$1,982	-

Operating Impacts

Operating Expenses	184	109	109	109	109	109	730
Debt Service	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-
General Fund Requirement	\$184	\$109	\$109	\$109	\$109	\$109	\$730
Additional Positions (FTEs)	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Potomac Heritage National Scenic Trail



Potomac Heritage National Scenic Trail - Neabsco Creek Crossing

- **Annual operating costs for trail maintenance** will be funded by the general fund. In addition, community volunteers will help provide ongoing trail clean up and maintenance, potentially reducing the need for tax support.

Project Milestones

- **The trail segment crossing Neabsco Creek** is a 3,163 foot long boardwalk and observation deck that started construction in December 2017 (FY18) and will be completed by December 2018 (FY19). The boardwalk will connect Rippon Landing Park and the Julie Metz Wetland.
- **Other trail segments** within the project include:
 - **Featherstone Refuge** - US Fish & Wildlife approved the plan in May 2017 (FY17). The BOCS approved the Right of Way agreement in July 2017 (FY18). Parks is working with VDOT to administer the Federal Lands Access Program (FLAP) grant. Additional geotechnical work is required to ready the project for bidding and will be done over the winter of 2018. Completion of bridges and boardwalk expected by winter of 2018 (FY19).
 - **Heritage Harbor** - Design is complete and the required VDOT permit has been received. This segment incorporates a road crossing at Featherstone Road and connects with the Featherstone Refuge segment. Additional funding in the form of proffers will be provided in FY19, allowing work to be completed summer of 2018 (FY19).
 - **Occoquan Refuge** - US Fish & Wildlife approved the plan in May 2017 (FY17). The BOCS approved the Right of Way agreement in July 2017 (FY18). Trail work began fall 2017 (FY18). Parks is acquiring quotes for trail materials, site work, and installing one bridge crossing. Construction to be completed by summer 2018 (FY19).
- **Future trail segments** extending the trail network from Woodbridge through the Potomac Magisterial District and to the Stafford County line are in planning stages. The PHNST route through Occoquan and into the Woodbridge District is in planning stages in collaboration with the Town of Occoquan.

Rollins Ford Park – Phase 2

Total Project Cost - \$7.3M

Project Description

This will be a 69-acre park, which will include two rectangular fields, parking, playgrounds, pavilions, basketball court, dog park, restroom/concession auxiliary building, walking trails, and wildflower meadows.

Service Impact

- **Increase Active Recreation Opportunities** - This project will increase sports participation visits and customer satisfaction ratings in the County. Specifically, the park improvements will reduce congestion at Long Park due to the additional field capacity in the western end of the County.

Funding Sources

- **Capital Reserve** - \$2.7M
- **Developer contributions (proffers)** - \$2.2M
- **General fund** - \$600K
- **General fund (easement)** - \$1.8M

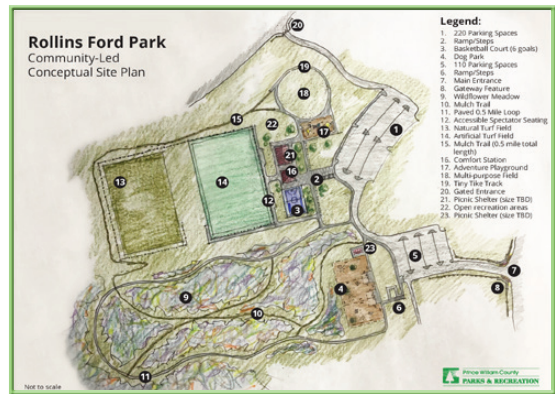
Project Milestones

- **Design** is scheduled to begin in July 2018 (FY19) to be completed March 2019 (FY19).
- **Construction** is scheduled to begin in July 2019 (FY20) to be completed July 2020 (FY21).
- **Occupancy** is scheduled for August 2020 (FY21)



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	



<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	593	593	-	-	-	-	-	-	-	-	-
Capital Reserve	2,700	-	-	2,700	-	-	-	-	-	2,700	-
Proffers	2,183	-	-	2,183	-	-	-	-	-	2,183	-
Other Revenue	1,800	1,800	-	-	-	-	-	-	-	-	-
Total Revenue	\$7,276	\$2,393	-	\$4,883	-	-	-	-	-	\$4,883	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	1,009	9	-	1,000	-	-	-	-	-	1,000	-
Construction	6,268	29	20	1,000	4,219	1,000	-	-	-	6,219	-
Total Expenditure	\$7,276	\$38	\$20	\$2,000	\$4,219	\$1,000	-	-	-	\$7,219	-

<i>Operating Impacts</i>	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24
Operating Expenses	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-	-
Additional Positions (FTEs)	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Trail Development

Total Project Cost - \$1.9M

Project Description

This project adds trails and connectors to the Broad Run Greenway, Catharpin Greenway, Neabsco Greenway, and Occoquan Greenway corridors.

Service Impact

- **Increase open space and passive recreation opportunities** - The trails will be used by hikers, non-motorized bikers, and equestrians, providing an alternative transportation route between parks and school sites. Completed segments make progress toward goals in the Parks, Open Space, and Trails chapter in the County's Comprehensive Plan.

Funding Sources

- **Developer contributions (proffers)** - \$1.0M
- **General fund** - \$848K
- **Capital reserve** - \$21K

Note: Final construction of all planned trail segments will not occur until additional funding is available.

- **Annual operating costs** are not anticipated at this time, but any future maintenance costs as segments are completed will be provided by the general fund. In addition, community volunteers will help provide ongoing trail clean up and maintenance, potentially reducing the need for tax support.

Project Milestones

- **Broad Run Greenway** - The trail connects communities from Route 28 to Rollins Ford Road. Segments will be constructed as funding and

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

easements become available.

- **Catharpin Greenway** - The trail connects communities from Silver Lake Park to Long Park to the Manassas Battlefield. Segments will be constructed as funding and easements are available.
- **Neabsco Greenway** - The trail connects communities from Andrew Leitch Park to the Sharron Baucom Dale City Recreation Center. Segments will be completed as funding and easements are available.
- **Occoquan Greenway** - The trail connects communities from the McCoart Complex to the Town of Occoquan. Segments three and four are in the design stage for the bridge crossings. A draft trail layout is complete pending easement availability. Other segments will be constructed as funding and easements are available.

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	848	848	-	-	-	-	-	-	-	-	-
Capital Reserve	21	21	-	-	-	-	-	-	-	-	-
Proffers	1,040	1,040	-	-	-	-	-	-	-	-	-
Total Revenue	\$1,909	\$1,909	-	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	46	5	41	-	-	-	-	-	-	-	-
Construction	1,443	159	12	843	429	-	-	-	-	1,272	-
Conversion	420	420	-	-	-	-	-	-	-	-	-
Total Expenditure	\$1,909	\$583	\$54	\$843	\$429	-	-	-	-	\$1,272	-

<i>Operating Impacts</i>										
	Operating Expenses	-	-	-	-	-	-	-	-	-
	Debt Service	-	-	-	-	-	-	-	-	-
	Revenue	-	-	-	-	-	-	-	-	-
	General Fund Requirement	-	-	-	-	-	-	-	-	-
	Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Trail Development



Broad Run Greenway



Occoquan Greenway

Eco Park Complex

Total Project Cost - \$1.5M

Project Description

The Eco Park Complex focuses on transforming the landfill property into a community resource. The complex includes three major components: *Environment - Energy - Education*. The project expands the development of public-private partnerships to increase private development and investment in renewable energy projects to increase sustainability. Potential projects include expansion of the landfill gas to energy facility, development of a waste conversion demonstration project(s), and development of solar and wind power.

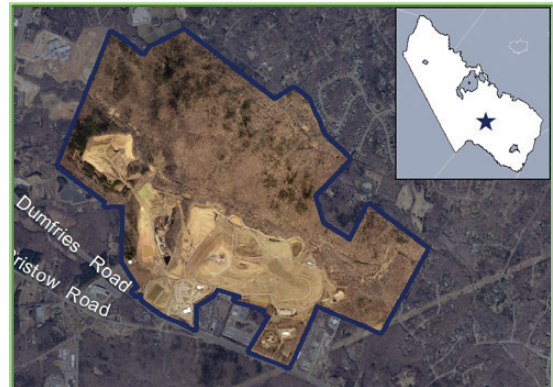
The education component of the project includes development of an Eco-Center “Living Building” education facility (which will include County landfill offices), including trails and exhibits within the buffer area of the landfill. Public-private partnerships will be solicited for funding as the educational component develops. Partnerships with PWC Schools, George Mason University, Virginia Tech, and private companies are being explored to develop the educational facility.

Service Impact

- **Increase revenue** - This project will generate revenue through investment in alternative energy solutions (including landfill gas, wind, and solar).
- **Decrease fuel dependence and emissions** - The project will decrease fossil fuel dependence and greenhouse gas emissions at the landfill.
- **Education** - The development of the landfill buffer trails and education facility will provide educational resources and opportunities for local schools and universities.
- **Increase landfill life** - The waste conversion project will divert waste from the landfill and increase the overall life of the landfill.

Funding Sources

- **Solid waste fee revenue** - \$1.5M



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	
Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

- **Private funds for renewable energy/waste conversion/education** - \$20M+

Project Milestones

- **Design** of renewable energy projects (wind, solar and waste conversion technologies) began in FY15 and development continued into FY18.
- **Continued development** of landfill trails with concept plans for an education facility in FY18. Implementation of waste conversion, solar and wind projects, and the education facility will continue in FY19-24.

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Solid Waste Fees	1,200	611	-	-	-	-	-	-	-	-	589
Other Revenue	300	300	-	-	-	-	-	-	-	-	-
Total Revenue	\$1,500	\$911	-	-	-	-	-	-	-	-	\$589

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	179	18	86	75	-	-	-	-	-	75	-
Construction	1,269	267	50	363	-	-	-	-	-	363	589
Right of Way/Land	52	52	-	-	-	-	-	-	-	-	-
Total Expenditure	\$1,500	\$336	\$137	\$439	-	-	-	-	-	\$439	\$589

Operating Impacts

Operating Expenses	-	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-	-	-	-
Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Landfill Caps

Total Project Cost - \$8.3M

Project Description

The project funds the mandated closure of filled cells located at the PWC Sanitary Landfill. Filled cells are areas of the landfill that have reached capacity.

Service Impact

- **Protection of Public Health** - The closure of filled cells will reduce rainwater infiltration, thereby protecting public health, groundwater quality, and the environment.
- **Compliance with Virginia solid waste management regulations** - Regulations mandate that cells must be capped once they are completely filled.

Funding Sources

- **Solid waste fee revenue/Closure Fund** - \$8.3M

Project Milestones

- **Design and construction for phase II (sequence 4)** will begin in FY18 and be completed in FY19.
- **Design and construction for phase II (sequence 5)** will begin in FY22 and be completed in FY23.



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	
Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	



<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Solid Waste Fees	8,278	233	3,405	-	-	-	4,640	-	-	4,640	-
Total Revenue	\$8,278	\$233	\$3,405	-	-	-	\$4,640	-	-	\$4,640	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	346	-	46	-	-	-	300	-	-	300	-
Construction	7,402	8	1,584	2,000	-	-	3,810	-	-	5,810	-
Project Management	530	-	-	-	-	-	530	-	-	530	-
Total Expenditure	\$8,278	\$8	\$1,630	\$2,000	-	-	\$4,640	-	-	\$6,640	-

<i>Operating Impacts</i>	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Operating Expenses	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-	-	-
Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Landfill Liners

Total Project Cost - \$16.5M

Project Description

Installation of mandated landfill liners is required to complete the liner systems at the PWC Sanitary Landfill.

Service Impact

- **Protection of Public Health** - The landfill liners will protect public health and the environment by reducing groundwater contamination.
- **Compliance with Virginia Solid Waste Management Regulations** - The regulations mandate that liners be installed in all new landfill cells.
- **Capacity of phase II and III cells** - The life of the Phase II and III cells are estimated to last until 2030.

Funding Sources

- **Solid waste fee revenue** - \$16.5M

Project Milestones

- **Design and construction for phase II, part D** was completed in FY18.
- **Relocation of the mulch facility** will begin in FY19 and be completed in FY19 to prepare for the construction of the Phase III lined cells.
- **Design and construction of phase III, part A** will begin in FY21 and be completed in FY22.
- **Design and construction of phase III, part B** will begin in FY24 and be completed in FY25.



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	



<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Solid Waste Fees	16,487	5,277	-	1,600	-	4,550	-	-	5,060	11,210	-
Total Revenue	\$16,487	\$5,277	-	\$1,600	-	\$4,550	-	-	\$5,060	\$11,210	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	1,395	615	-	140	-	300	-	-	340	780	-
Construction	13,578	4,218	-	1,460	-	3,730	-	-	2,000	7,190	2,170
Project Management	1,515	384	62	-	-	520	-	-	250	770	300
Total Expenditure	\$16,487	\$5,216	\$62	\$1,600	-	\$4,550	-	-	\$2,590	\$8,740	\$2,470

<i>Operating Impacts</i>	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Operating Expenses	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-	-	-
Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

County Watersheds

Total Project Cost - \$25.1M

Project Description

These funds are for watershed capital projects throughout the PWC. Projects can include stream restoration, best management practices (BMP), stormwater management facility retrofits, culvert modifications, channel improvements, and drainage improvements within county-wide watersheds to reduce flooding and erosion problems and/or improve water quality. The County watersheds included in this project are:

- Broad Run Watershed
- Bull Run Watershed
- Cedar Run Watershed
- Marumscoc Creek Watershed
- Neabsco Creek Watershed
- Occoquan River Watershed
- Powells Creek Watershed
- Quantico Creek Watershed

Service Impact

- **Protect water quality** - These projects will protect local water quality and the Chesapeake Bay.
- **Control flooding and reduce erosion** - These projects will help control flooding and reduce erosion and siltation problems countywide.
- **Comply with state and federal mandates** - All of the projects help comply with federal and state mandates, associated with the Clean Water Act, including the Chesapeake Bay Total Maximum Daily Load (TMDL) and the County's MS4 permit by providing water quality and quantity improvements, reduction of non-point source pollution and the enhancement of stream/riparian habitat.

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	
Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

Funding Sources

- **Stormwater management (SWM) fee** - \$24.3M
- **State/federal and other sources** - \$665K
- **Proffers (developer contributions)** - \$42K
- **Annual maintenance costs** are supported by the County's Storm Water Management (SWM) fee in the Public Works operating budget.

Project Milestones

Design and construction for watershed improvement projects occur on a phased basis as specific projects are identified in watershed studies. Planned and ongoing projects include the following:

- **Broad Run Watershed**
 - Broad Run SWM Retrofits
- **Bull Run Watershed**
 - Bull Run Stream Restorations/SWM Retrofits

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Stormwater Mgmt Fee	24,349	-	4,742	2,362	2,196	3,550	3,873	3,326	4,300	19,607	-
State Rev	665	-	665	-	-	-	-	-	-	-	-
Proffers	42	-	-	42	-	-	-	-	-	42	-
Total Revenue	\$25,055	-	\$5,407	\$2,404	\$2,196	\$3,550	\$3,873	\$3,326	\$4,300	\$19,649	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Construction	25,055	-	4,470	2,362	2,196	3,550	3,873	3,326	4,300	19,607	978
Total Expenditure	\$25,055	-	\$4,470	\$2,362	\$2,196	\$3,550	\$3,873	\$3,326	\$4,300	\$19,607	\$978

<i>Operating Impacts</i>											
	Operating Expenses	-	-	-	-	-	-	-	-	-	-
	Debt Service	-	-	-	-	-	-	-	-	-	-
	Revenue	-	-	-	-	-	-	-	-	-	-
	General Fund Requirement	-	-	-	-	-	-	-	-	-	-
	Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

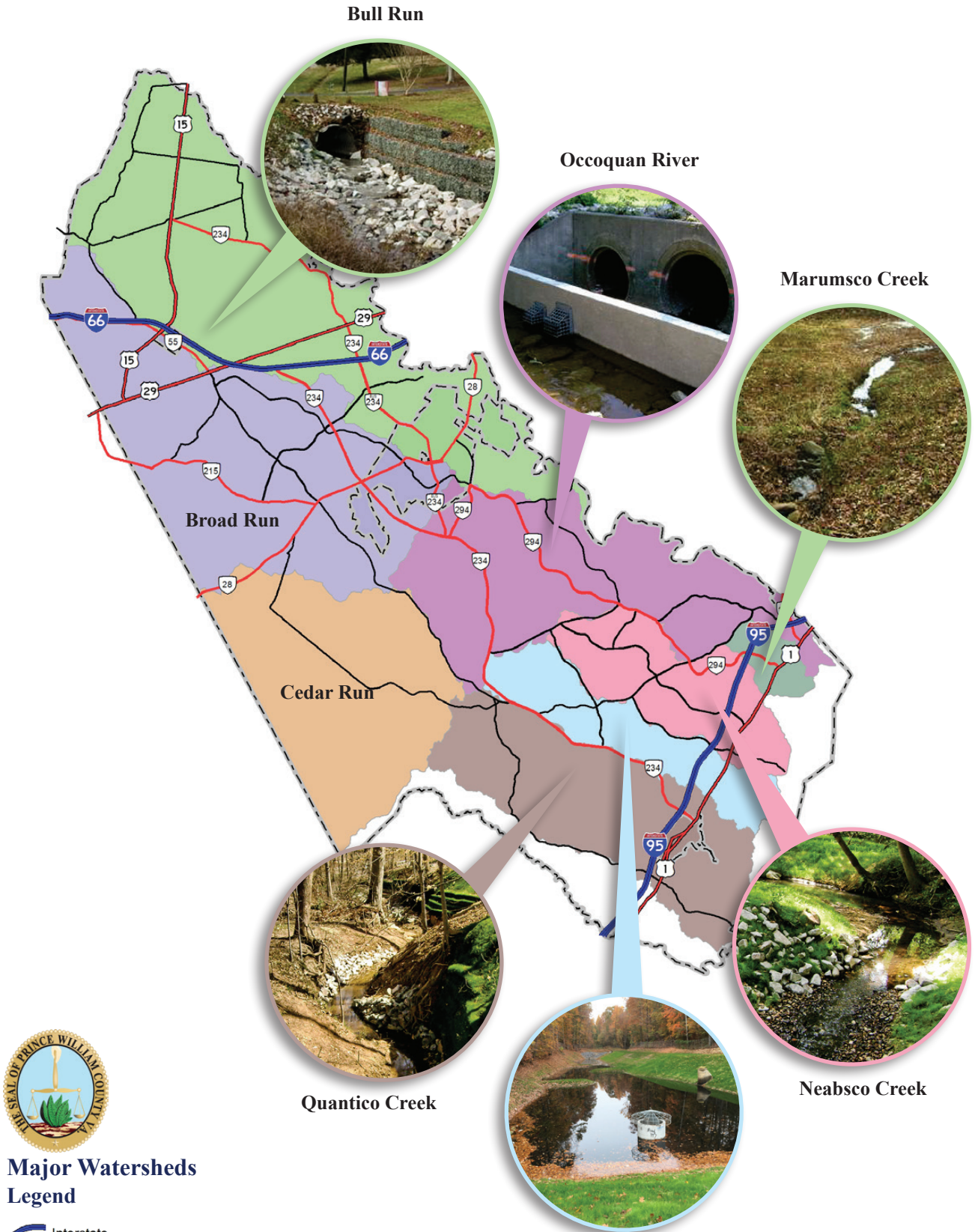
County Watersheds



Powells Creek Watershed Water Quality Retrofit

- **Marumsco Creek Watershed**
 - Marumsco Creek SWM Retrofits
- **Neabsco Creek Watershed**
 - Cow Branch Phase 4
- **Occoquan River Watershed**
 - No projects identified at this time
- **Powells Creek Watershed**
 - Powells SS-725 Stream Restoration - Phase 1
- **Quantico Creek Watershed**
 - Dewey's Creek Reach 2 Stream Restoration
 - SWM Facility 377 - Water Quality Retrofit
 - SWM Facility 424 - Water Quality Retrofit

County Watersheds



Major Watersheds Legend

- Interstate
- US Highway Route
- State Highway
- County Road (Major)
- County Boundary



PUBLIC SAFETY
PROJECTS



Coles Fire & Rescue Station Reconstruction

Total Project Cost - \$10.9M

Project Description

The station was built in 1979 and is located at 13712 Dumfries Road in Manassas. This project will replace the current station based on recommendations identified in the Fire & Rescue Facilities Assessment dated January 2010.

The new station will be constructed at the same address and will be approximately 21,500 square feet with expanded office space, sleeping quarters, more suitable apparatus areas, and hazmat storage.

Service Impact

- **Safety** - The reconstructed station will provide a safer environment for career and volunteer staff members.

Funding Sources

- **Fire levy funds** - \$9.2M
- **Developer contributions (proffers)** - \$1.6M
- **Service Authority water connection credit** - \$114K
- **Facility operating costs** are funded by the fire levy. There are no new operating costs due to the reconstruction.

Project Milestones

- **Design** began in August 2013 (FY14).
- **Reconstruction** began in August 2017 (FY18) and is scheduled to be completed in January 2019 (FY19).
- **Occupancy** is planned for February 2019 (FY19).



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	



<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Fire Levy	9,211	9,712	(461)	(40)	-	-	-	-	-	(40)	-
Proffers	1,596	780	461	355	-	-	-	-	-	355	-
Service Authority Reimbursement	114	114	-	-	-	-	-	-	-	-	-
Total Revenue	\$10,921	\$10,606	-	\$315	-	-	-	-	-	\$315	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	1,056	974	82	-	-	-	-	-	-	-	-
Construction	8,673	44	5,130	3,500	-	-	-	-	-	3,500	-
Occupancy	451	-	226	225	-	-	-	-	-	225	-
Telecommunication	253	-	253	-	-	-	-	-	-	-	-
Project Management	488	48	240	200	-	-	-	-	-	200	-
Total Expenditure	\$10,921	\$1,066	\$5,930	\$3,925	-	-	-	-	-	\$3,925	-

<i>Operating Impacts</i>		FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Operating Expenses		-	-	-	-	-	-	-	-	-
Debt Service		-	-	-	-	-	-	-	-	-
Revenue		-	-	-	-	-	-	-	-	-
General Fund Requirement		-	-	-	-	-	-	-	-	-
Additional Positions (FTEs)		-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Nokesville Fire & Rescue Station Reconstruction

Total Project Cost - \$10.7M

Project Description

This project will replace the current station as recommended in the 2010 Fire & Rescue Facilities Assessment. The new station will be constructed at the same location as the current station. The new station will have expanded office space, sleeping quarters, community room, and more suitable apparatus areas.

Service Impact

- **Safety** - The reconstructed station will provide a safer environment for career and volunteer staff members.
- **Volunteer recruitment and retention** - The renovation is not expected to impact station response times, it is anticipated that renovated living and working space will improve volunteer firefighter recruitment and retention.

Funding Sources

- **Fire levy funds** - \$7.5M
- **Developer contributions (proffers)** - \$2.5M
- **Capital Reserve** - \$600K
- **Service Authority Reimbursement (Credit)** - \$114K
- **Facility and program operating costs** are funded by the fire levy; there are no new costs due to the reconstruction.

Project Milestones

- **Design** began in December 2013 (FY14) and was completed in November 2017 (FY18).
- **Reconstruction** is scheduled to begin May 2018 (FY18) and will be completed in August 2019 (FY20).
- **Occupancy** is scheduled for September 2019 (FY20).



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	



Funding Sources (Revenue)	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Capital Reserve	600	600	-	-	-	-	-	-	-	-	-
Fire Levy	7,549	7,852	(303)	-	-	-	-	-	-	-	-
Proffers	2,463	1,556	907	-	-	-	-	-	-	-	-
Service Authority Reimbursement	114	114	-	-	-	-	-	-	-	-	-
Total Revenue	\$10,726	\$10,123	\$603	-	-	-	-	-	-	-	-

Cost Categories (Expenditures)	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Pre-Planning	101	101	-	-	-	-	-	-	-	-	-
Design/Planning	1,192	982	110	90	10	-	-	-	-	100	-
Construction	8,456	-	1,000	6,015	1,441	-	-	-	-	7,456	-
Occupancy	275	-	-	100	175	-	-	-	-	275	-
Telecommunication	283	-	-	283	-	-	-	-	-	283	-
Project Management	419	27	190	190	12	-	-	-	-	202	-
Total Expenditure	\$10,726	\$1,110	\$1,300	\$6,678	\$1,638	-	-	-	-	\$8,316	-

Operating Impacts	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24
Operating Expenses	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-
Additional Positions (FTEs)	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Station 22 (West End) Fire & Rescue

Total Project Cost - \$16.4M

Project Description

Station 22 is a Fire & Rescue station that will be located at 11600 Balls Ford Road in the west end of the county and is planned to be approximately 21,000 square feet. The station will house a pumper, rescue unit, collapse unit, and an Advanced Life Support (ALS) ambulance. Career staffing will be provided for a 24-hour pumper unit, 24-hour rescue unit, and a 24-hour medic unit. The building will include sleeping quarters, a kitchen and dayroom, physical fitness room, training room, storage for heavy tactical rescue equipment, and offices. The station will include three to four apparatus bays, an area for personal protective equipment, and an exterior training tower.

Service Impact

- **Response Time Improvements** - The station's first due area will experience response time improvements. System-wide response time improvements are also projected to improve, which will help ease the burden on existing stations.

Funding Sources

- **Debt financing** (supported by the Fire Levy) - \$15.1M
- **Fire levy funds** - \$922K
- **Developer contributions (proffers)** - \$353K
- **Facility operating costs** will be funded by the fire levy.
- **Program operating costs (career staffing)** will be funded by the general fund.

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

Project Milestones

- **Land Acquisition** was completed in July 2017 (FY18).
- **Design** began in November 2017 (FY18) and will be completed in December 2018 (FY19).
- **Construction** is scheduled to begin in June 2019 (FY19) and will be completed in September 2020 (FY21).
- **Occupancy** is scheduled for November 2020 (FY21).



<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Fire Levy	922	1,275	-	(353)	-	-	-	-	-	(353)	-
Debt	15,080	-	-	15,080	-	-	-	-	-	15,080	-
Proffers	353	-	-	353	-	-	-	-	-	353	-
Total Revenue	\$16,355	\$1,275	-	\$15,080	-	-	-	-	-	\$15,080	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Pre-Planning	39	39	-	-	-	-	-	-	-	-	-
Design/Planning	800	-	250	450	100	-	-	-	-	550	-
Construction	10,165	-	15	2,635	7,515	-	-	-	-	10,150	-
Right of Way/Land	3,778	112	3,666	-	-	-	-	-	-	-	-
Occupancy	400	-	-	75	325	-	-	-	-	400	-
Telecommunication	400	-	-	400	-	-	-	-	-	400	-
Project Management	722	7	140	300	275	-	-	-	-	575	-
Other Project Costs	50	-	-	50	-	-	-	-	-	50	-
Total Expenditure	\$16,355	\$158	\$4,071	\$3,910	\$8,215	-	-	-	-	\$12,125	-

<i>Operating Impacts</i>									
	Operating Expenses	-	-	1,950	1,643	1,643	1,643	6,878	
	Debt Service	-	1,433	1,399	1,365	1,331	1,297	6,824	
	Revenue	-	1,433	1,399	1,365	1,331	1,297	6,824	
	General Fund Requirement	-	-	\$1,950	\$1,643	\$1,643	\$1,643	\$6,878	
	Additional Positions (FTEs)		0.00	0.00	14.00	0.00	0.00	14.00	

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Station 27 (East End) Fire & Rescue

Total Project Cost - \$14.0M

Project Description

Station 27 is a new Fire & Rescue station that will be located on the east end of the County in, or near, the Potomac Shores community, located on the Cherry Hill Peninsula. The station is planned to house a pumper and an ALS ambulance. Twenty-four hour career staffing will be provided for both units. The building will include sleeping quarters, a kitchen and dayroom, a physical fitness room, a training room, and offices. The station is currently planned to include two to three apparatus bays and an area for personal protective equipment.

Service Impact

- **Response Time Improvements** - The station's first due area will experience response time improvements. System-wide response time improvements are also projected to improve, which will help ease the burden on existing stations.

Funding Sources

- **Debt financing** (supported by the fire levy) - \$14.0M
- **Facility operating costs** will be funded by the fire levy.
- **Program operating costs (career staffing)** will be funded by the general fund and the fire levy will fund a portion of volunteer hours.

Project Milestones

- **Land Acquisition** began in FY18 and is planned to be complete late summer 2018 (FY19). Note, land acquisition costs are not included in the total project cost, but will be included once the acquisition is complete.
- **Design** is scheduled to begin in July 2021 (FY22).

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

- **Construction** is scheduled to begin in July 2022 (FY23) and be completed in December 2023 (FY24).
- **Occupancy** is scheduled for January 2024 (FY24).

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Debt	14,000	-	-	-	-	-	14,000	-	-	14,000	-
Total Revenue	\$14,000	-	-	-	-	-	\$14,000	-	-	\$14,000	-

Cost Categories (Expenditures)

Pre-Planning	225	-	-	-	-	225	-	-	-	225	-
Design/Planning	800	-	-	-	-	-	600	150	50	800	-
Construction	11,400	-	-	-	-	-	-	6,400	5,000	11,400	-
Occupancy	400	-	-	-	-	-	-	400	-	400	-
Telecommunication	400	-	-	-	-	-	-	400	-	400	-
Project Management	775	-	-	-	-	50	175	300	250	775	-
Total Expenditure	\$14,000	-	-	-	-	\$275	\$775	\$7,650	\$5,300	\$14,000	-

Operating Impacts

Operating Expenses	-	-	-	1,645	3,344	3,379	8,367
Debt Service	-	-	-	-	1,400	1,365	2,765
Revenue	-	-	-	-	1,400	1,365	2,765
General Fund Requirement	-	-	-	\$1,645	\$3,344	\$3,379	\$8,367
Additional FTE	-	-	-	10.00	14.00	-	24.00

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Adult Detention Center Phase 2

Total Project Cost - \$46.9M

Project Description

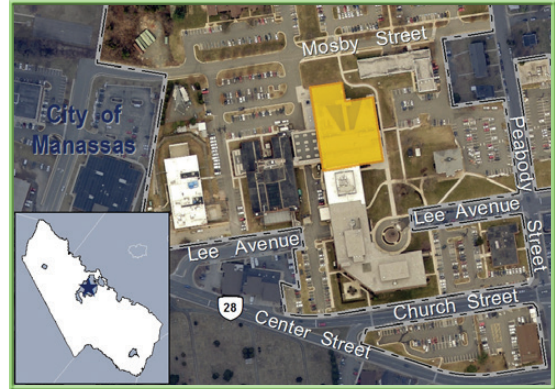
The project provides a second expansion adjacent to the existing ADC and will include repairs to the main jail and a parking lot expansion. The expansion will provide bed space to alleviate current overcrowding and future inmate population growth.

Service Impact

- **Inmate population** - This expansion provides future capacity for projected inmate population.
- **Bed Space** - The expansion will provide 204 additional general population beds in the Manassas Complex.
- **Support increase of Average Daily Population (ADP)** - The current ADP, as defined by the 2014 Community Based Corrections Planning study, exceeds the existing rated capacity of the facility by 219 jail beds. The additional bed space will address the current need. The closure of the Peumansend Creek Regional jail in 2017 eliminated 75 available beds, adding to the current situation.

Funding Sources

- **Debt financing** - \$20.8M
- **State reimbursement** - \$21.0M
- **Facilities capital reserve** - \$5.1M
- **Facility operating costs** will be funded by the general fund and the cities of Manassas and Manassas Park. Facility personnel are included in the FTE count and operating costs below and include 82 security positions and 18 non-security positions. Staffing is being phased in over three years beginning in FY18. Twenty-eight positions were authorized in FY18.



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

Project Milestones

- **Planning and design** began in April 2015 (FY15) and was completed December 2016 (FY17).
- **Construction** began December 2017 (FY18) and will be completed February 2020 (FY20).
- **Occupancy** is scheduled for March 2020 (FY20).

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Capital Reserve	5,071	5,071	-	-	-	-	-	-	-	-	-
Debt	20,802	-	21,032	20,802	-	(21,032)	-	-	-	230	-
State Rev	21,032	-	-	-	-	21,032	-	-	-	21,032	-
Total Revenue	\$46,906	\$5,071	\$21,032	\$20,802	-	-	-	-	-	\$20,802	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	3,568	2,810	200	300	258	-	-	-	-	558	-
Construction	41,932	651	3,252	20,529	17,500	-	-	-	-	38,029	-
Occupancy	412	-	-	-	412	-	-	-	-	412	-
Telecommunication	406	-	-	100	306	-	-	-	-	406	-
Project Management	588	158	85	185	160	-	-	-	-	345	-
Total Expenditure	\$46,906	\$3,620	\$3,537	\$21,114	\$18,635	-	-	-	-	\$39,749	-

<i>Operating Impacts</i>		FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24
Operating Expenses		4,838	6,417	6,971	6,971	6,971	6,971	39,139	
Debt Service		209	2,493	2,472	2,425	1,836	1,789	11,224	
Revenue		-	1,100	2,200	2,200	2,200	2,200	9,900	
General Fund Requirement		\$5,047	\$7,810	\$7,243	\$7,196	\$6,607	\$6,560	\$40,464	
Additional Positions (FTEs)		45.00	27.00	-	-	-	-	72.00	

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Adult Detention Center Phase 2



Courthouse Security System Replacement

Total Project Cost - \$4.8M

Project Description

The project replaces the security system at the Judicial Center Courthouse complex, to include new cameras/surveillance equipment, digital video recorders capable of recording and maintaining video footage for 30 days, new wiring compatible with the new surveillance equipment, and call boxes with surveillance cameras.

A needs assessment was completed in FY16 and will inform the design and implementation of the system. Additional maintenance funds will be needed to support the new system, which will be identified during planning and design.

Service Impact

- **Improved safety and security at the Judicial Center** - Replacing the system will improve safety and security for visitors and employees in the complex by ensuring that access to sensitive areas is appropriately restricted and surveillance of areas is maintained.
- **Software and hardware life cycle** - The life cycle of the existing software and hardware is at an end. System replacement is critical in order to support the security of the complex.

Funding Sources

- **General fund** - \$4.8M
- **Facility operating costs** will be funded by the general fund.



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

Project Milestones

- **Planning and design** is scheduled to be completed spring 2018 (FY18) with contract award in fall 2018 (FY19).
- **Implementation** is scheduled to begin fall 2018 (FY19) with completion in winter 2020 (FY20).

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	4,789	4,789	-	-	-	-	-	-	-	-	-
Total Revenue	\$4,789	\$4,789	-	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	358	64	269	25	-	-	-	-	-	25	-
Construction	4,098	-	-	2,259	1,839	-	-	-	-	4,098	-
Project Management	332	-	-	250	82	-	-	-	-	332	-
Total Expenditure	\$4,789	\$64	\$269	\$2,534	\$1,921	-	-	-	-	\$4,455	-

<i>Operating Impacts</i>	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Operating Expenses	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-	-	-
Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

911 Call Center Redundancy

Total Project Cost - \$1.0M

Project Description

Phase 1 of this project renovates the existing 911 call center backup and disaster recover location for the Office of Public Safety Communications. This will enable public safety communications to activate the County's backup and disaster recovery site quickly and facilitate operations for extended periods.

Phase 2 of this project renovates the existing primary 911 call center for the Office of Public Safety Communications. This will support current operations and the need for additional capacity to support future next generation 911 initiatives.

Service Impact

- **Public Safety Communications** - Modernizing the County's backup and primary public safety communications sites will promote a safe community by allowing rapid deployment of its backup system and decreasing emergency response times overall.

Funding Sources

- **Capital Reserve** - \$1.0M

Project Milestones

- **Planning and design** is scheduled to begin in fall 2018 (FY19) with completion in FY20.
- **Construction** is scheduled to be completed in FY20.

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Capital Reserve	1,020	-	-	1,020	-	-	-	-	-	1,020	-
Total Revenue	\$1,020	-	-	\$1,020	-	-	-	-	-	\$1,020	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	100	-	-	100	-	-	-	-	-	100	-
Construction	920	-	-	410	510	-	-	-	-	920	-
Total Expenditure	\$1,020	-	-	\$510	\$510	-	-	-	-	\$1,020	-

<i>Operating Impacts</i>											
	Operating Expenses	-	-	-	-	-	-	-	-	-	-
	Debt Service	-	-	-	-	-	-	-	-	-	-
	Revenue	-	-	-	-	-	-	-	-	-	-
	General Fund Requirement	-	-	-	-	-	-	-	-	-	-
	Additional Positions (FTEs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Animal Shelter Expansion/Renovation

Total Project Budget - \$15.1M

Project Description

The project constructs a new animal shelter at the existing shelter location at Independent Hill on Dumfries Road. The project will replace aging trailers where staff is housed, and several aging/deteriorating outbuildings used for storage.

Features of the new facility will include expanded animal adoption areas, quarantine and visitation areas, veterinarian support space, feed and equipment storage areas, exam and grooming rooms, stray animal kennels, and space to address surge capacity related to animal cruelty and hoarding cases. The design will be in full compliance with Association of Shelter Veterinarians facility standards.

Service Impact

➤ Improve the Long-term Support and Operation -

Animal control services will improve as follows:

- Enhanced public accessibility to the shelter.
- Housing of stray and homeless pets to include feeding, care, and maintenance.
- Quarantine of aggressive and potentially rabid animals and surrender of unwanted pets.
- Public education on animal laws, animal care, and animal behavior.
- Enforcement of state and local laws regarding domestic and agricultural animals.
- Adoption and placement of pets in new homes.
- Cremation of deceased animals.
- Administration of vaccines to prevent the spread of contagious animal diseases.
- Housing of stray livestock, birds, and reptiles.



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	



<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	1,000	1,000	-	-	-	-	-	-	-	-	-
Debt	14,125	-	-	14,125	-	-	-	-	-	14,125	-
Total Revenue	\$15,125	\$1,000	-	\$14,125	-	-	-	-	-	\$14,125	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Pre-Planning	328	313	15	-	-	-	-	-	-	-	-
Design/Planning	1,359	-	959	200	100	100	-	-	-	400	-
Construction	11,624	-	-	3,000	6,000	2,624	-	-	-	11,624	-
Occupancy	900	-	-	-	564	336	-	-	-	900	-
Telecommunication	313	-	-	-	100	213	-	-	-	313	-
Project Management	600	-	70	140	205	185	-	-	-	530	-
Total Expenditure	\$15,125	\$313	\$1,044	\$3,340	\$6,969	\$3,458	-	-	-	\$13,767	-

<i>Operating Impacts</i>		FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24
Operating Expenses	-	700	814	746	746	746	746	3,751
Debt Service	-	1,342	1,310	1,278	1,246	1,215	1,215	6,391
Revenue	-	-	-	-	-	-	-	-
General Fund Requirement	-	\$2,042	\$2,124	\$2,024	\$1,992	\$1,960	\$1,960	\$10,142
Additional Positions (FTEs)	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Animal Shelter Expansion/Renovation



Current Prince William County Animal Shelter

Funding Sources

- **General fund** - \$1.0M
- **Debt financing** - \$14.1M
- **Debt service costs** will be funded by the general fund.
- **Facility operating costs** will be funded by the general fund.

Project Milestones

- **Planning and design option** chosen in September 2017 (FY18).
- **Final design** began in October 2017 (FY18) to be completed in summer 2018 (FY19).
- **Construction** is scheduled to begin in November 2018 (FY19) to be completed in September 2020 (FY21).
- **Occupancy** is scheduled for October 2020 (FY21).

Body Worn Cameras for Police Officers

Total Project Cost - \$3.0M

Project Description

This project funds a pilot program, purchase of camera equipment, and licensing for the establishment of a body worn camera (BWC) program in the County's Police Department.

Several high profile incidents across the country have generated public discussion for greater transparency and accountability regarding police actions and behaviors. A national movement for agencies to adopt BWC technology has been underway over the past couple of years.

Many agencies at the regional, state, and national levels are in the process of studying, piloting, or implementing BWCs. Benefits of implementing BWCs include:

- Promote greater accountability, transparency, and public trust while protecting civil liberties.
- May result in reductions in citizen complaints, use of force incidents, civil litigation cases, and assaults on police officers.
- Videos used as a training tool to conduct post-incident review and make better-informed decisions.
- Provide improved documentation in reports and evidence collection.
- Assist in identifying and correcting internal agency issues (i.e. tactics, communication, customer service, officer safety, etc.).
- Discourage people from filing unfounded complaints against officers.

Service Impact

- **Enhance Public Trust and Accountability** - The project is intended to enhance public trust in the Police Department by documenting law enforcement encounters with the public. In addition, it is meant to promote accountability, transparency, and professionalism.

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

Funding Sources

- **General fund** - \$3.0M
- **Program operating costs** will be funded by the general fund. Note, in FY19 the project will support some operating costs.

Project Milestones

- **Planning and design** began in summer 2015 (FY16).
- **Project implementation**, beginning with a pilot program, began in fall 2016 (FY17) and was completed in spring 2017 (FY17).
- **Full project implementation** with rollout of equipment and training of officers began in September 2017 (FY18) and will be completed in FY18.
- **Telecommunication (licensing) costs** for FY19 will be supported out of the project.

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	3,000	3,000	-	-	-	-	-	-	-	-	-
Total Revenue	\$3,000	\$3,000	-	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	157	126	31	-	-	-	-	-	-	-	-
Occupancy	1,264	469	795	-	-	-	-	-	-	-	-
Telecommunication	1,579	-	640	676	-	-	-	-	-	676	264
Total Expenditure	\$3,000	\$595	\$1,466	\$676	-	-	-	-	-	\$676	\$264

Operating Impacts

Operating Expenses	171	846	846	846	846	846	4,402
Debt Service	-	-	-	-	-	-	-
Revenue	25	25	25	25	25	25	150
General Fund Requirement	\$146	\$821	\$821	\$821	\$821	\$821	\$4,252
Additional Positions (FTEs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Public Safety Training Center Master Plan

Total Project Cost of Master Plan - \$400K

Total Project Cost of Expansion - TBD

Project Description

This project develops a master plan to identify improvements and additions to the Public Safety Training Center (PSTC). The training center supports the recruit training of police and fire and rescue personnel and ongoing training for active duty personnel.

Service Impact

- **Public Safety Training** - The Police and Fire & Rescue Department personnel, along with volunteers, will benefit from enhanced and updated facilities.

Funding Sources

- **Capital Reserve** - \$400K
- **Debt service costs** associated with financing future facility improvements will be funded by the general fund.
- **Annual operating costs** will be supported by the general fund.

Project Milestones

- **Master planning** is scheduled to begin in spring 2018 (FY18) with completion in FY20.
- **Design** of specific improvements and project costs will begin after the completion of the master plan.
- **Construction** is scheduled to begin in FY21.

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Capital Reserve	400	-	400	-	-	-	-	-	-	-	-
Total Revenue	\$400	-	\$400	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Pre-Planning	400	-	50	300	50	-	-	-	-	350	-
Total Expenditure	\$400	-	\$50	\$300	\$50	-	-	-	-	\$350	-

<i>Operating Impacts</i>											
	Operating Expenses	-	-	-	-	500	500	1,000			
	Debt Service	-	-	-	3,000	3,000	3,000	9,000			
	Revenue	-	-	-	-	-	-	-			
	General Fund Requirement	-	-	-	\$3,000	\$3,500	\$3,500	\$10,000			
	Additional Positions (FTEs)		0	0	0	0	0	0			

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Security Improvements at County Facilities

Total Project Cost - \$2.6M

Project Description

This project will primarily fund a security assessment and physical security enhancements at the McCoart Complex. In addition, funds will be used to assess security improvement needs at the Judicial Center and the Gar-field (Eastern District) Police Station.

Service Impact

- **Improved safety and security** - Physical security enhancements improve safety for visitors and employees in County facilities by ensuring that access to sensitive areas is appropriately restricted and managed.
- **Asset Protection** - Physical security enhancements protect County assets.

Funding Sources

- **General fund** - \$553K
- **Capital Reserve** - \$2.0M
- **Annual operating cost** impacts will be identified during the design phases. There are currently no operating impacts planned in the CIP.

Project Milestones

- **Security Assessment** was completed in FY18.
- **Design for McCoart Complex improvements** began in December 2017 (FY18) and are scheduled to be completed in summer 2018 (FY19).
- **Construction at McCoart Complex** is scheduled to begin summer 2018 (FY19).

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

- **Judicial Center and Gar-Field assessment** began in December 2017 (FY18) and is scheduled to be completed June 2018 (FY18).
- **Projects at other sites** will be identified, designed, and constructed in the future. Specific timelines are to be determined.

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	553	553	-	-	-	-	-	-	-	-	-
Capital Reserve	2,000	-	2,000	-	-	-	-	-	-	-	-
Total Revenue	\$2,553	\$553	\$2,000	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	344	169	175	-	-	-	-	-	-	-	-
Construction	2,209	-	197	703	982	327	-	-	-	2,012	-
Total Expenditure	\$2,553	\$169	\$372	\$703	\$982	\$327	-	-	-	\$2,012	-

<i>Operating Impacts</i>	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24
Operating Expenses	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-	-
Additional Positions (FTEs)	0	0	0	0	0	0	0	0

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.



TECHNOLOGY IMPROVEMENT
PROJECTS

800 MHz Radio Communications System

Total Project Cost - \$22.2M

Project Description

The original 800 MHz Public Safety Radio Infrastructure Platform reached the end of contracted vendor service support and guaranteed replacement parts availability in 2013. This project includes the replacement and technology update to the County's 800 MHz System and a new microwave link at the Paul T. White (Western District) Police Station to support the new 800 MHz equipment.

Service Impact

- **Communications** - The 800 MHz system provides primary voice communications for all public safety agencies, to include, but not limited to, Public Safety Communications, County Police, Fire & Rescue, Sheriff, and the Adult Detention Center (ADC). This critical communication ensures that the appropriate resources arrive on the scene of emergency calls for service in the timeliest manner. The system is also used by the PWC Schools, the PWC Service Authority, and the County Department of Development Services and Department of Public Works as a primary means of communication between field personnel/resources and control centers/headquarters. The 800 MHz system averages 9,000 individual communications daily.
- **Radios** - There are approximately 4,800 radios in use in the system, which includes 1,505 law enforcement, 1,786 fire & rescue and 1,462 public service agency subscribers, including school buses.

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

Funding Sources

- **Capital reserve** - \$18.0M
- **Fire levy** - \$4.0M
- **Technology Internal Service Fund (ISF) fund balance** - \$245K
- **Annual operating costs** are funded by the general fund.

Project Milestones

- **System design, budgetary analysis, request for proposals (RFP), and vendor selection** completed in FY11.
- **Contract** was approved in FY12.
- **Acceptance testing and system cutover** was completed in FY14.
- **Radio site planning and design** for final radio site was initiated in FY17 and continued into FY18.
- **Easement for final radio site approved** in May 2018 (FY18).
- **Construction of final radio site and system implementation** for site is targeted for completion in FY19.

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Capital Reserve	18,000	18,000	-	-	-	-	-	-	-	-	-
Fire Levy	4,000	4,000	-	-	-	-	-	-	-	-	-
Internal Service Fund Balance	245	245	-	-	-	-	-	-	-	-	-
Total Revenue	\$22,245	\$22,245	-	-	-	-	-	-	-	-	-

Cost Categories (Expenditures)

Pre-Planning.	16	16	-	-	-	-	-	-	-	-	-
Plan & Analysis.	3	3	-	-	-	-	-	-	-	-	-
Dev Deploy & Eval.	2,412	15	21	2,376	-	-	-	-	-	2,376	-
Conversion.	19,815	19,815	-	-	-	-	-	-	-	-	-
Total Expenditure	\$22,245	\$19,848	\$21	\$2,376	-	-	-	-	-	\$2,376	-

Operating Impacts

Operating Expenses	1,155	1,238	1,264	1,290	1,316	1,144	7,407
Debt Service	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-
General Fund Requirement	\$1,155	\$1,238	\$1,264	\$1,290	\$1,316	\$1,144	\$7,407
Additional Positions (FTEs)	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

ADC Information Management System

Total Project Cost - \$638K

Project Description

The ADC Information Management System includes two components - (1) the management of booking and digital photos of inmates at intake and release, arrest charges and sentence information, and (2) a new medical records system. The information managed includes inmate transfers and cell assignment, inmate accounts, and work-release activity. The current system was installed in 2000, underwent upgrades in 2003, 2007, and 2013 and reached end of life support in 2017.

Service Impact

- **System maintenance** - The system will properly maintain the ADC information management system, aiding in inmate control and medical treatment, and fulfilling state reporting requirements.

Funding Sources

- **General fund** - \$550K
- **ISF fund balance** - \$88K
- **Annual operating costs** are funded by the general fund.

Project Milestones

- **Existing system upgrade** completed in FY14.
- **New system implementation and acceptance** for medical records and digital imaging is scheduled for FY19.

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	550	550	-	-	-	-	-	-	-	-	-
Internal Service Fund Balance	88	88	-	-	-	-	-	-	-	-	-
Total Revenue	\$638	\$638	-	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Dev Deploy & Eval.	476	3	381	92	-	-	-	-	-	-	92
Conversion.	162	162	-	-	-	-	-	-	-	-	-
Total Expenditure	\$638	\$165	\$381	\$92	-	-	-	-	-	\$92	-

<i>Operating Impacts</i>		FY18	FY19	FY20	FY21	FY22	FY23	FY24	Future
Operating Expenses		75	77	80	82	85	88	486	
Debt Service		-	-	-	-	-	-	-	-
Revenue		-	-	-	-	-	-	-	-
General Fund Requirement		\$75	\$77	\$80	\$82	\$85	\$88	\$486	
Additional Positions (FTEs)		-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Cable Equipment

Total Project Cost - \$2.7M

Project Description

Capital improvements and purchases within this project are made possible by separate cable franchise agreements between the County and local cable television providers. The funding amount is one percent of gross revenues generated in PWC by cable operators. Use of this revenue stream is restricted to cable-related capital needs.

The cable franchise fee revenue is split between the County and PWC Schools, for broadcast capability of educational and information programming. This project reflects the expenditure plan for the County's portion of the cable franchise fee revenue.

Service Impact

- **The Government Access Channel** - The channel provides general government programs to cable subscribers in PWC. Information is broadcast in the form of original programs, public service announcements, Board of County Supervisors (BOCS) meetings (both live and rebroadcast), and other programming.
- **Online presence for the County** - An online presence is critical to sharing information about PWC government with residents. An essential component of that presence is video content.

Funding Sources

- **Cable franchise fee** - \$2.7M

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

Project Milestones

- **PWC channel (play to air)** - Refresh of master control system to replace aging hardware completed in FY17.
- **Improvements to Chinn Studio** - Upgrade sound proofing, lighting set design and other items to create a more usable and efficient studio space completed in FY18.

Future Plans

To continue to work toward more effective and efficient programming and video production, the following projects are planned for the future:

- Purchase and install new broadcast equipment.
- Reconfigure control room.
- Upgrade equipment in BOCS Chambers.
- Purchase broadcast van with workstation.

<i>Funding Sources (Revenue)</i>		Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Cable Franchise Fee		2,748	-	-	458	458	458	458	458	458	2,748	-
Total Revenue		\$2,748	-	-	\$458	\$458	\$458	\$458	\$458	\$458	\$2,748	-

<i>Cost Categories (Expenditures)</i>		Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Occupancy		2,019	-	-	55	295	50	45	160	124	729	1,290
Total Expenditure		\$2,748	-	-	\$110	\$590	\$100	\$90	\$320	\$248	\$1,458	\$1,290

Operating Impacts

Operating Expenses	-	-	-	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-	-	-	-	-	-
Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Computer Aided Dispatch (CAD)

Total Project Cost - \$6.5M

Project Description

CAD is hardware and software infrastructure that processes calls and dispatch of police officers, firefighters, and EMS. CAD interfaces with a wide range of technology systems, including police/fire/EMS records management systems, mobile data, Westnet, E-911, pagers, SafetyPAD, and 800 MHz. The previous CAD system was accepted in 1999 and exceeded industry standards for replacement. During FY17, the County processed over 418,090 calls for service, of which approximately 163,507 were answered via E-911.

Service Impact

- **Call Management** - The effective management of calls for public safety service to the community is dependent on the CAD system.
- **Response, reporting, and dispatching** - The CAD system is mission critical for public safety agencies in meeting emergency response, accurate reporting and dispatching, and ensuring the health and safety of the community.

Funding Sources

- **E-911 fund balance** - \$6.1M
- **ISF fund balance** - \$433K
- **Annual operating costs** are funded by the general fund.

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

Project Milestones

- **Needs analysis and RFP development** completed in FY11.
- **Candidate systems live test, demonstrations, and site visits** with current customers of candidate systems in FY12.
- **Contractor negotiations and selection** occurred in FY13.
- **CAD test and go live** occurred in FY15.
- **Integration with other systems** completed in FY17.
- **Acceptance** scheduled to occur in FY19.

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	6,100	6,100	-	-	-	-	-	-	-	-	-
Internal Service Fund Balance	433	433	-	-	-	-	-	-	-	-	-
Total Revenue	\$6,533	\$6,533	-	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Dev Deploy & Eval.	1,789	281	1,155	352	-	-	-	-	-	-	352
Conversion.	4,744	4,744	-	-	-	-	-	-	-	-	-
Total Expenditure	\$6,533	\$5,026	\$1,155	\$352	-	-	-	-	-	\$352	-

<i>Operating Impacts</i>											
	Operating Expenses		1,365	1,419	1,476	1,531	1,588	1,647	9,026		
	Debt Service		-	-	-	-	-	-	-		
	Revenue		-	-	-	-	-	-	-		
	General Fund Requirement		\$1,365	\$1,419	\$1,476	\$1,531	\$1,588	\$1,647	\$9,026		
	Additional Positions (FTEs)		-	-	-	-	-	-	-		

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Disaster Recovery/Business Continuity

Total Project Cost - \$2.7M

Project Description

This project includes multiple sub-projects to ensure critical County systems and applications are redundant and reliable in the event of system failures. Additional facilities, generators, heating ventilation and air conditioning, fire suppression, battery plants, servers, data network components, and application developments are required for a comprehensive disaster recovery and business continuity development plan.

Service Impact

- **Recovery and continuity** - Disaster recovery and business continuity is critical to ensure essential public services such as County Police, Fire & Rescue, and EMS continue in the event of catastrophic system-wide failure.

Funding Sources

- **General fund** - \$2.7M
- **Annual operating costs** are funded by the general fund.

Project Milestones

- **Individual projects** occurred in FY15 and FY16 to enhance sustainability, accessibility, reliability, and survivability of systems and infrastructure as identified by the Department of Information Technology and the Information Technology Steering Committee.
- **Implementation of the core infrastructure** (email, intranet, Internet redundancy, and active directory redundancy) was completed in FY16.

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

- **Implementation of the application infrastructure** and the population of the data center with systems and data were completed in FY17.
- **Increased storage and software needs**, including onsite private cloud are projected for completion in FY18 and FY19.

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	2,730	2,730	-	-	-	-	-	-	-	-	-
Total Revenue	\$2,730	\$2,730	-	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Dev Deploy & Eval.	1,004	413	127	465	-	-	-	-	-	465	-
Conversion.	1,725	1,725	-	-	-	-	-	-	-	-	-
Total Expenditure	\$2,730	\$2,138	\$127	\$465	-	-	-	-	-	\$465	-

<i>Operating Impacts</i>	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24
Operating Expenses	9	9	9	9	9	9	51	
Debt Service	-	-	-	-	-	-	-	
Revenue	-	-	-	-	-	-	-	
General Fund Requirement	\$9	\$9	\$9	\$9	\$9	\$9	\$51	
Additional Positions (FTEs)	-	-	-	-	-	-	-	

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Human Resources Electronic Document Mgmt System

Total Project Cost - \$332K

Project Description

The existing Human Resource Information System (HRIS) Electronic Document Management System was designed in 2001 and no longer meets the business needs of the County. This project will redesign the electronic document management system used by Human Resources to allow for efficient retrieval of information and create the foundation for access to be role specific including department level access. This redesign will also allow for more intuitive document nomenclature, provide additional edit and maintenance functions, and standardize identification of folder and file properties across the system.

Service Impact

- **Workload efficiencies** - The enhanced system designed by this project will provide better management of personnel records, enhance efficiency in research and retrieval, and limit duplication of storage of personnel documentation within the departments.

Funding Sources

- **General fund** - \$332K
- **Annual operating costs** will be funded by the general fund.

Project Milestones

- **New system implementation and acceptance** began in FY18 and is anticipated to be completed in FY19.

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	332	332	-	-	-	-	-	-	-	-	-
Total Revenue	\$332	\$332	-	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Dev Deploy & Eval.	332	-	50	282	-	-	-	-	-	282	-
Total Expenditure	\$332	-	\$50	\$282	-	-	-	-	-	\$282	-

<i>Operating Impacts</i>		FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24
Operating Expenses		15	16	16	17	18	19	101	
Debt Service		-	-	-	-	-	-	-	
Revenue		-	-	-	-	-	-	-	
General Fund Requirement		\$15	\$16	\$16	\$17	\$18	\$19	\$101	
Additional Positions (FTEs)		-	-	-	-	-	-	-	

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Human Capital Management (HCM)

Total Project Cost - \$13.0M

Project Description

This project defines requirements and options for the replacement of the existing Human Capital Management system. The system requirements process will include an assessment of whether to upgrade to a new version with the current vendor or select a new system.

Service Impact

➤ **Human Capital Management** - Modernization of the system will increase organizational adaptability and flexibility with the following key abilities: the cloud, mobile, social, analytics, and big data. This project will provide increased capabilities and compliance in all areas of human resources and payroll including talent management and succession planning, timekeeping, learning management, onboarding, employee and manager portal, benefit management, strategic and responsive reporting and business intelligence and facilitate targeted training. Statistics show that modern HCMP systems attract top talent and a modern workforce.

Funding Sources

- **General fund** - \$1.0M
- **Capital Reserve** - \$6.0M
- **Debt** - \$6.0M

Note: Financing options are being evaluated.

➤ **Annual operating costs** are a combination of debt service and maintenance to be funded by the general fund.

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

Project Milestones

- **Consolidate system / technical requirements** completed in FY18.
- **Request for information** completed in FY18.
- **RFP** to be developed in FY19.
- **New system design and implementation** will follow after selection of a vendor. Implementation is planned to take 24 months.

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	1,000	1,000	-	-	-	-	-	-	-	-	-
Capital Reserve	6,000	-	-	6,000	-	-	-	-	-	6,000	-
Debt	6,000	-	-	6,000	-	-	-	-	-	6,000	-
Total Revenue	\$13,000	\$1,000	-	\$12,000	-	-	-	-	-	\$12,000	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Dev Deploy & Eval.	13,000	26	42	2,208	6,724	4,000	-	-	-	12,932	-
Total Expenditure	\$13,000	\$26	\$42	\$2,208	\$6,724	\$4,000	-	-	-	\$12,932	-

<i>Operating Impacts</i>											
	Operating Expenses	-	-	1,500	1,500	1,500	1,500	6,000			
	Debt Service	-	-	-	-	-	-	-	-	-	-
	Revenue	-	-	-	-	-	-	-	-	-	-
	General Fund Requirement	-	-	\$1,500	\$1,500	\$1,500	\$1,500	\$6,000			
	Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Total Project Cost - \$3.2M

Project Description

Phase 1 of this project replaced the end-of-life core network equipment with newer, more efficient optical network equipment that reduced power consumption, cooling, and annual maintenance costs by approximately \$75,000. The Phase 1 upgrade increased the network bandwidth capacity in anticipation of future network growth and to support the disaster recovery project requirements. Phase 2 is the installation of new routers to support the requirements for increased capacity between data centers.

Cable franchise fees fund replacement of end of life equipment and purchase new equipment when needed to accommodate future needs for increased network capacity.

Service Impact

- **Bandwidth and resiliency** - The project will add capacity for two County government data center facilities. This dedicated capacity supports the requirements for replication, backup CAD and Public Safety Communications Center, Internet services, remote access, plus other critical services. The technology provides resiliency for the core network equipment with automatic failover. Other features include reduced management overhead and simplified modifications and additions.

Funding Sources

- **General fund** - \$1.0M
- **Capital reserve** - \$930K
- **Cable franchise fee** - \$1.2M

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

Project Milestones

- **Evaluated solutions** with vendors in FY12.
- **Installed system upgrade** in FY12 (Phase 1).
- **Installed additional network equipment** to add capacity between primary and secondary data centers (Phase 2) in FY15 and FY16, with recurring replacements every seven years.
- **Replace existing network equipment** planned to be completed in FY18 and FY23, with recurring replacements every seven years.
- **Replace optical equipment** in FY27.

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	1,045	1,045	-	-	-	-	-	-	-	-	-
Capital Reserve	930	930	-	-	-	-	-	-	-	-	-
Cable Franchise Fee	1,225	-	175	175	175	175	175	175	175	1,050	-
Total Revenue	3,200	1,975	175	175	175	175	175	175	175	1,050	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Dev Deploy & Eval.	1,736	-	312	-	-	-	-	650	-	650	774
Conversion.	1,464	1,464	-	-	-	-	-	-	-	-	-
Total Expenditure	3,200	1,464	312	-	-	-	-	650	-	650	774

<i>Operating Impacts</i>											
Operating Expenses	-	-	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-	-	-	-	-
Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Land Use Information System (Energov)

Total Project Costs - \$4.5M

Project Description

The Land Use Information System manages land and building development and code enforcement information. The system manages and tracks plan review, permits, inspections, violations, and other applications approvals and fee collection. It is used by 300+ users across all development agencies. The system also supports mobile devices, interactive voice response, online scheduling, and customer e-services.

The project for replacing the system is divided into three phases. Phase 1 replaced online services related to land development (such as e-permits, e-inspections, e-plan status) and the automated phone scheduling system. Phase 1 also included the implementation of a customer portal. Phase 2 incorporates electronic plan review capabilities. Phase 2 incorporates additional enhancements to improve utility of the system. Phase 3 incorporates enhancements to the system.

Service Impact

- **Partnerships** - Facilitate partnerships between staff and customers.
- **Integration** - Spatially integrate Geographic Information Systems (GIS).
- **Automation** - Streamline business processes through automated workflows.
- **Efficiencies** - Achieve efficiencies through paperless/electronic processes.
- **Access** - Expand citizen access and project oriented tracking.

Funding Sources

- **ISF fund balance** - \$4.0M
- **Development fees** - \$500K

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

- **Annual operating costs** for Phases 1 and 2 will be funded by the general fund, and for Phase 3, by development fees.

Project Milestones

- **Vendor selection** and contract completed in FY12.
- **System assessment** completed in FY13.
- **System configuration and user acceptance testing** for Phase 1 was completed in FY15.
- **Production deployment** of Phase 1 was completed November 2014 (FY15).
- **Electronic plan review capabilities (Phase 2)** scheduled for completion in FY18.
- **Enhancements** to inspections, contact management, proffers, customer portal, code enforcement, and overall utility (Phase 3) scheduled for FY18.
- **Batch permitting and enhancements** to system setup, GIS viewer, object management, eReview, attached documentation, custom fields, fees, user roles, and customer portal (Phase 3) scheduled for FY19.

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	4,000	4,000	-	-	-	-	-	-	-	-	-
Development Fee	500	400	100	-	-	-	-	-	-	-	-
Total Revenue	\$4,500	\$4,400	\$100	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	1,749	379	342	1,028	-	-	-	-	-	1,028	-
Dev Deploy & Eval.											
Conversion.	2,751	2,751	-	-	-	-	-	-	-	-	-
Total Expenditure	\$4,500	\$3,130	\$342	\$1,028	-	-	-	-	-	\$1,028	-

<i>Operating Impacts</i>										
	Operating Expenses	269	281	292	308	323	339	1,813		
	Debt Service	-	-	-	-	-	-	-		
	Revenue	18	19	20	21	22	23	122		
	General Fund Requirement	\$251	\$262	\$272	\$287	\$302	\$316	\$1,691		
	Additional Positions (FTEs)	-	-	-	-	-	-	-		

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Qmatic Replacement

Total Project Cost - \$200K

Project Description

The Qmatic system is the queuing system used by all development services customer service counters, including Development Services, GIS, and Public Works Environmental Services. The system routes customers through a series of customer service counters based on the business they are doing with the County. The system includes servers, software on all counter and early assistance workstations, self-serve customer kiosks, the equipment, and software to run video monitors throughout the Development Services building, digital signs for each counter, and the audio announcement system to alert customers.

The current system was installed in 2006 and upgraded in 2012. The current version of Qmatic (Ensemble) has been discontinued by the vendor and will not be upgraded to support any browser beyond Internet Explorer 11 (IE11). Microsoft is ending support for the IE11 browser by January 2020, which means Qmatic Ensemble will no longer be viable. In order to move to a different Qmatic suite of software, all customized routing and functions for PWC would have to be repeated, essentially replacing the current software. In addition, the equipment is ten years old and will need to be replaced.

Service Impact

- **Streamline routing** of customers for various services.
- **Ensure customers receive all necessary services** in the order required by the development process.
- **Accountability for all agencies** on providing quick and efficient customer service.

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

- **Improve services** by creating/adjusting queues and staffing levels based on system statistics.
- **Allow customers to relax/work in the lobby or other locations of the building** while waiting instead of standing in line.

Funding Sources

- **Development fees** - \$200K
- **Annual operating costs** will be funded by development fees.

Project Milestones

- **Design, production, implementation, and acceptance** will occur in FY19.

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Development Fee	200	-	200	-	-	-	-	-	-	-	-
Total Revenue	200	-	200	-	-	-	-	-	-	-	-

Cost Categories (Expenditures)

Project Mgmt.	10	-	-	10	-	-	-	-	-	10	-
Requirements.	10	-	-	10	-	-	-	-	-	10	-
Plan & Analysis.	23	-	-	23	-	-	-	-	-	23	-
Dev Deploy & Eval.	157	-	9	148	-	-	-	-	-	148	-
Total Expenditure	200	-	9	191	-	-	-	-	-	191	-

Operating Impacts

Operating Expenses	-	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-	-	-	-
Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Public Safety Records/EMS System

Total Project Cost - \$10.7M

Project Description

This project replaces critical systems that facilitate record keeping, data collection, data processing, and reporting to satisfy local, state, and federal requirements. Records Management includes fire, EMS, and police incident-reporting, including summons, police incident history, property tracking, resource reporting, and statistical analysis for decision-making. Mobile Data provides immediate and uninterrupted access to CAD, Records Management, and links to outside resources such as the Virginia Criminal Information Network field emergency service providers through a secure network. The EMS reporting system is designed for patient care reporting as required by the Virginia State Office of EMS and is an integral part of the EMS billing platform.

The existing systems exceed industry standards for replacement. The replacement cycle for this hardware and software meets industry standards if completed on schedule.

Service Impact

- **Safety** - Improved citizen and provider safety due to more rapid availability of information, including floor plans, GIS data, hazardous materials information, and situational awareness information.
- **Accuracy and Timeliness** - More accurate and timely reporting is critical in meeting local, state, and federal reporting requirements.

Funding Sources

- **General fund** - \$10.3M
- **ISF fund balance** - \$408K
- **Annual operating costs** are funded by the general fund.

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

Project Milestones

- **Needs analysis and RFP development** completed in FY11.
- **Candidate systems live test, demonstrations, and site visits** with current customers of candidate systems conducted in FY12.
- **Contractor negotiation and selection** completed in FY13.
- **Records management system test and system acceptance** in FY18.
- **Post system acceptance enhancement tests and acceptance** in FY19.

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	10,264	10,264	-	-	-	-	-	-	-	-	-
Internal Service Fund Balance	408	408	-	-	-	-	-	-	-	-	-
Total Revenue	\$10,672	\$10,672	-	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Dev Deploy & Eval.	3,502	544	1,044	1,915	-	-	-	-	-	1,915	-
Conversion.	7,170	7,170	-	-	-	-	-	-	-	-	-
Total Expenditure	\$10,672	\$7,713	\$1,044	\$1,915	-	-	-	-	-	\$1,915	-

<i>Operating Impacts</i>		FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24
Operating Expenses		1,365	1,419	1,476	1,531	1,588	1,648	9,027	
Debt Service		-	-	-	-	-	-	-	-
Revenue		-	-	-	-	-	-	-	-
General Fund Requirement		\$1,365	\$1,419	\$1,476	\$1,531	\$1,588	\$1,648	\$9,027	
Additional Positions (FTEs)		-	-	-	-	-	-	-	

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Sheriff Information Management System

Total Project Cost - \$200K

Project Description

The Sheriff's Office maintains a web-based system that logs, tracks, and maintains records for service of civil and criminal process. The application was custom developed for the Sheriff's Office. Process service calculations are submitted to the state for funding.

Service Impact

- **Process service** - Accurate and timely service of court processes is critical to effective state court operation.

Funding Sources

- **ISF fund balance** - \$200K
- **Annual operating costs** are funded by the general fund.

Project Milestones

- **Established requirements** in FY12.
- **Contract executed** in FY14.
- **Selected modules implemented** in FY15.
- **Complete implementation, test, and accept additional modules** in FY19.

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Internal Service Fund Balance	200	200	-	-	-	-	-	-	-	-	-
Total Revenue	\$200	\$200	-	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Dev Deploy & Eval.	61	-	-	61	-	-	-	-	-	61	-
Conversion.	139	139	-	-	-	-	-	-	-	-	-
Total Expenditure	\$200	\$139	-	\$61	-	-	-	-	-	\$61	-

<i>Operating Impacts</i>										
Operating Expenses				20	21	22	23	25	26	138
Debt Service				-	-	-	-	-	-	-
Revenue				-	-	-	-	-	-	-
General Fund Requirement				\$20	\$21	\$22	\$23	\$25	\$26	\$138
Additional Positions (FTEs)				-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Social Services Electronic Document Management

Total Project Cost - \$556K

Project Description

The Department of Social Services needs an electronic document management system that can store client documents in a manageable, retrievable, and searchable format. The project includes licenses, a new server for file storage, an automated scanning server, and set up and customization of the system to meet business needs.

Service Impact

- **Efficiencies** - Reduce and eliminate paper storage, improve efficiency, and reduce errors.

Funding Sources

- **General fund** - \$400K
- **ISF fund balance** - \$156K
- **Annual operating costs** are funded by the general fund.

Project Milestones

- **Established requirements** in FY15.
- **Development on build of system** began in FY17.
- **Implement, test, and accept system** in FY19.

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	400	400	-	-	-	-	-	-	-	-	-
Internal Service Fund Balance	156	156	-	-	-	-	-	-	-	-	-
Total Revenue	\$556	\$556	-	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Dev Deploy & Eval.	556	-	110	446	-	-	-	-	-	446	-
Total Expenditure	\$556	-	\$110	\$446	-	-	-	-	-	\$446	-

<i>Operating Impacts</i>										
	Operating Expenses		82	84	86	89	93	94		528
	Debt Service		-	-	-	-	-	-		-
	Revenue		-	-	-	-	-	-		-
	General Fund Requirement		\$82	\$84	\$86	\$89	\$93	\$94		\$528
	Additional Positions (FTEs)		-	-	-	-	-	-		-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Technology Infrastructure

Total Project Estimate - \$24.9M (Current Appropriation - \$8.0M)

Project Description

The County is currently operating with a technology infrastructure that serves over 5,000 employees across 35 agencies located in approximately 70 buildings within Prince William County. Legacy infrastructure can inhibit service delivery and compromise the security of government services and data. This project will support and update the modernization of County technology infrastructure.

The improvements will prepare the network to support newer technologies, such as cloud and mobile connectivity. Improvements will focus on the modernization of four key areas of the network infrastructure: Internet Core, Security Infrastructure, Data Center Infrastructure, and Enterprise Network, which includes the Local Area Network (LAN) and Wide Area Network (WAN).

The total estimate to complete all improvements in the four key areas is \$24.9 million. Additional funding beyond the current \$8.0M appropriation will need to be identified to complete all phases.

Service Impact

- **Deliver nimble, agile government services** - Accurate and timely delivery of government services will increase efficiency and enhance customer service.
- **Enhanced security** - The County's network infrastructure and data will be more secure. The project will build Internet and security layers at main and co-location facilities.

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

Funding Sources

- **Capital reserve** - \$8.0M
- **Additional funding sources TBD** - \$16.9M
- **Annual operating costs** will be funded by the general fund.

Project Milestones

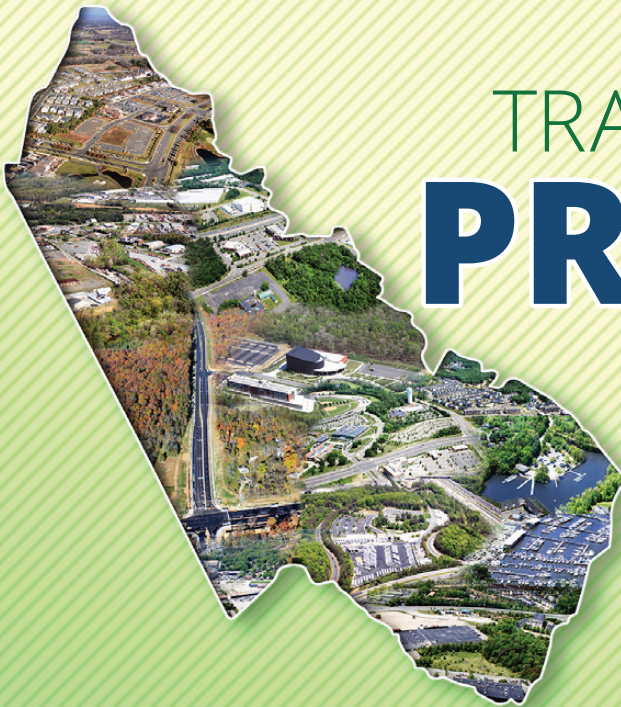
- **Internal needs analysis and RFP development** to be completed in FY19.
- **Contractor negotiation and selection** to be completed in FY19.
- **Internet core modernization** of two locations to be completed in FY20.
- **Data center infrastructure modernization** of two locations to be completed in FY20.
- **Security infrastructure modernization** of two locations to be completed in FY20.
- **Enterprise network (LAN/WAN) modernization** of 70 buildings to be completed in FY22.

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Capital Reserve	8,000	-	-	8,000	-	-	-	-	-	8,000	-
Revenue Source TBD	16,900	-	-	-	8,000	8,900	-	-	-	16,900	-
Total Revenue	\$24,900	-	-	\$8,000	\$8,000	\$8,900	-	-	-	\$24,900	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Dev Deploy & Eval.	24,900	-	-	5,600	7,000	7,850	4,450	-	-	24,900	-
Total Expenditure	\$24,900	-	-	\$5,600	\$7,000	\$7,850	\$4,450	-	-	\$24,900	-

<i>Operating Impacts</i>											
	Operating Expenses	-	-	-	1,000	3,000	3,000	3,000	10,000		
	Debt Service	-	-	-	-	-	-	-	-		
	Revenue	-	-	-	-	-	-	-	-		
	General Fund Requirement	-	-	-	\$1,000	\$3,000	\$3,000	\$3,000	\$10,000		
	Additional Positions (FTEs)	-	-	-	-	-	-	-	-		

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.



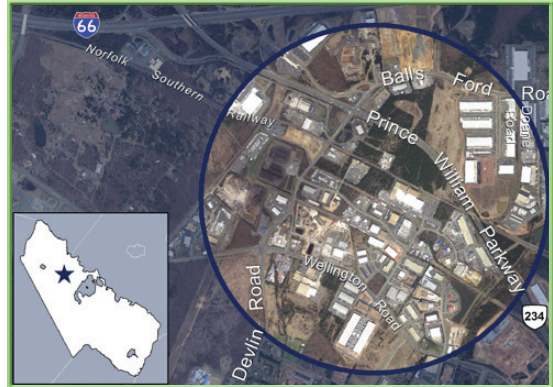
TRANSPORTATION
PROJECTS

Balls Ford Road Interchange

Total Project Cost - \$142.9M

Project Description

This project includes the construction of a new diverging diamond interchange at Route 234 Bypass (Prince William Parkway) and relocated Route 621 (Balls Ford Road). The project includes a grade-separated overpass crossing of relocated Balls Ford Road over Line B of the Norfolk Southern Railroad. In addition, the project will relocate Balls Ford Road as a new four-lane facility with a raised median between Devlin Road and Doane Drive. The project will also provide a 10-ft shared use path along relocated Balls Ford Road.



Service Impact

- **Relieve congestion and improve safety** - Construction of this diamond interchange will help alleviate congestion and improve safety, specifically during peak morning and evening travel periods.
- **Enhance pedestrian safety** - The shared use path along relocated Balls Ford Road will provide enhanced safety and connectivity for pedestrians.

Funding Sources

- **State funding** - \$142.9M

Project Milestones

- **Design** is anticipated to begin in May 2018 (FY18) for completion in August 2019 (FY20).
- **Right-of-way acquisition** is anticipated to begin in October 2018 (FY19) for completion in August 2021 (FY22).

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

- **Construction and utility relocation** are anticipated to begin in May 2018 (FY18) for completion in July 2024 (FY25).

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
State Rev	142,864	-	142,864	-	-	-	-	-	-	-	-
Total Revenue	\$142,864	-	\$142,864	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	13,650	-	910	10,920	1,820	-	-	-	-	12,740	-
Construction	116,919	-	-	30,064	40,086	40,086	6,683	-	-	116,919	-
Right of Way/Land	12,295	-	-	2,418	2,418	2,418	2,418	2,418	205	12,295	-
Total Expenditure	\$142,864	-	\$910	\$43,402	\$44,324	\$42,504	\$9,101	\$2,418	\$205	\$141,954	-

<i>Operating Impacts</i>	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Operating Expenses	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-	-	-
Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Balls Ford Road Widening

Total Project Cost - \$66.3M

Project Description

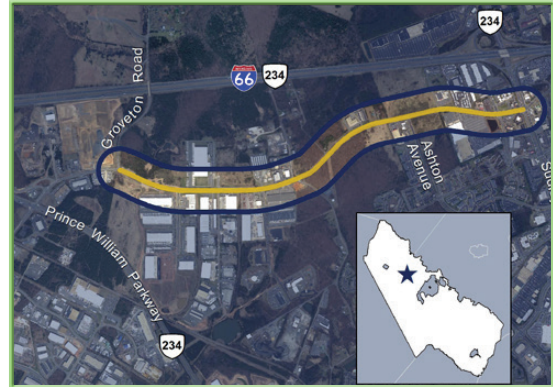
This project involves widening Balls Ford Road from two to four lanes, from Groveton Road to Route 234 Business for a distance of 1.95 miles. This section of Balls Ford is parallel to I-66 and is located 0.2 miles south of I-66. The project includes a 10-ft. shared use trail and a 5-ft. sidewalk on the entire length of the facility. This road provides access to the proposed Balls Ford Road/Century Park Drive Park and Ride Lot and new Express Lane ramps to/from Eastbound I-66. The improvement extends to the proposed interchange project at Route 234 (Prince William Parkway) and Balls Ford Road to enhance accessibility to I-66 at the western end of Balls Ford Road.

Service Impact

- **Relieve congestion and improve safety** - Widening Balls Ford Road will help alleviate congestion and improve safety, specifically during peak morning and evening travel periods.
- **Enhance pedestrian safety** - The shared use path and sidewalk will provide enhanced safety and connectivity for pedestrians.
- **Connectivity** - This project will increase connectivity and the number of citizens satisfied with their ease of travel within the County by providing access to I-66.

Funding Sources

- **State funding** - \$66.2M
- **Developer contributions (proffers)** - \$57K



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

Project Milestones

- **Design** is anticipated to begin in May 2018 (FY18) for completion in August 2019 (FY20).
- **Right-of-way acquisition** is anticipated to begin in October 2018 (FY19) for completion in August 2019 (FY20).
- **Construction and utility relocation** are anticipated to begin in May 2018 (FY18) for completion in December 2021 (FY22).

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
State Rev	66,244	-	66,244	-	-	-	-	-	-	-	-
Proffers	57	-	57	-	-	-	-	-	-	-	-
Total Revenue	\$66,301	-	\$66,301	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	5,065	-	34	4,052	979	-	-	-	-	5,031	-
Construction	51,614	-	1,290	15,484	15,484	15,484	3,872	-	-	50,324	-
Right of Way/Land	9,622	-	-	7,872	1,750	-	-	-	-	9,622	-
Total Expenditure	\$66,301	-	\$1,324	\$27,408	\$18,213	\$15,484	\$3,872	-	-	\$64,977	-

Operating Impacts

Operating Expenses	-	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-	-	-	-
Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-	-

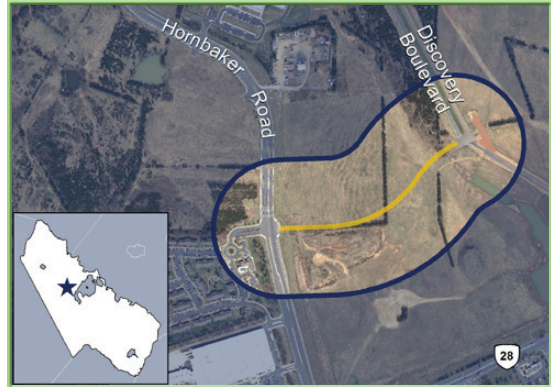
Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Discovery Boulevard Extension

Total Project Cost - \$4.4M

Project Description

This project will design and construct the extension of Discovery Boulevard approximately 1,600 feet from the existing terminus to Hornbaker Road. The project will also include a five-foot wide sidewalk on the north side that will connect Discovery Boulevard to Hornbaker Road. In addition, the project will include the necessary roadwork on nearby Innovation Park roads to bring them up to Virginia Department of Transportation standards for acceptance into the state-maintained secondary road system.



Service Impact

- **Connectivity** - This project will increase connectivity within Innovation Park.
- **Enhance pedestrian safety** - The sidewalk will provide enhanced safety and connectivity for pedestrians.

Funding Sources

- **Innovation @ Prince William enterprise fund** - \$4.4M

Project Milestones

- **Design** began in June 2017 (FY17) and was completed May 2018 (FY18).
- **Construction** will begin in August 2018 (FY19) for completion in December 2018 (FY19).

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Other Revenue	4,350	350	4,000	-	-	-	-	-	-	-	-
Total Revenue	\$4,350	\$350	\$4,000	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	550	18	532	-	-	-	-	-	-	-	-
Construction	3,800	-	-	3,800	-	-	-	-	-	3,800	-
Total Expenditure	\$4,350	\$18	\$532	\$3,800	-	-	-	-	-	\$3,800	-

<i>Operating Impacts</i>											
	Operating Expenses	-	-	-	-	-	-	-	-	-	-
	Debt Service	-	-	-	-	-	-	-	-	-	-
	Revenue	-	-	-	-	-	-	-	-	-	-
	General Fund Requirement	-	-	-	-	-	-	-	-	-	-
	Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Fuller/Fuller Heights Road Improvements

Total Project Cost - \$4.4M

Project Description

This project will construct a mini-roundabout at the intersection of Fuller Heights Road and Old Triangle Road to relieve congestion and improve safety. A future fourth leg from the roundabout will be designed but not constructed. This leg will connect to the future improvements to Fuller Road by the Marine Corps that are part of the Marine Corps Base project to install stop bars on the pavement east and west of the intersection of Fuller Heights and Fuller Roads to prevent the intersection from being blocked. The County will construct a dedicated left turn lane on Joplin Road for eastbound traffic heading north on Route 1.

The previously completed environmental and traffic report will be updated with addendums rather than recreating documents. The roundabout is within the 100-year floodplain limits for Little Creek.

Service Impact

- **Relieve congestion and improve safety** - Construction of this roadway will help alleviate congestion and improve safety, specifically during peak morning and evening travel periods.

Funding Sources

- **Public lands federal funding** - \$3.7M
- **Developer contributions (proffers)** - \$768K

Project Milestones

- **Design** was completed in FY12. The planning level cost estimate will be updated to determine the funding amount needed for the project.
- **Right-of-way and utility relocation** costs need to be added to the cost estimate and will move forward after the cost update.



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	



- **Construction** is on hold pending final coordination between the military base, Town of Quantico, and County. A timeline for the roundabout and dedicated left turn lane on Joplin Road is being developed.

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Federal Rev	3,659	3,659	-	-	-	-	-	-	-	-	-
Proffers	768	768	-	-	-	-	-	-	-	-	-
Total Revenue	\$4,426	\$4,426	-	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	684	634	-	-	-	-	-	-	-	-	50
Construction	3,257	-	-	-	-	-	-	-	-	-	3,257
Right of Way/Land	137	-	-	-	-	-	-	-	-	-	137
Project Management	348	348	-	-	-	-	-	-	-	-	-
Total Expenditure	\$4,426	\$982	-	-	-	-	-	-	-	-	\$3,444

<i>Operating Impacts</i>	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24
Operating Expenses	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-	-
Additional Positions (FTEs)	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Minnieville Road (Spriggs to Route 234)

Total Project Cost - \$44.2M

Project Description

This project widens, realigns, and improves Minnieville Road from an existing two-lane roadway to a four-lane divided roadway with a raised median from Spriggs Road to Route 234 (Dumfries Road).

Service Impact

- **Connectivity** - Complete the four-lane widening of Minnieville Road from its northern terminus with Old Bridge Road to its southern terminus at Route 234 (Dumfries Road).

Funding Sources

- **Developer contributions (proffers)** - \$3.7M
- **Prince William Service Authority Reimbursement** - \$1.2M
- **Revenue sharing funds from the Commonwealth of Virginia** - \$18.2M
- **Northern Virginia Transportation Authority (NVTa) 30% funding** - \$20.0M
- **General fund support** - \$1.1M

Project Milestones

- **Design** was completed in December 2016 (FY17).
- **Right-of-way acquisition** began in FY16 and is planned for completion in FY19.
- **Construction** began in fall 2016 (FY17) and is planned for completion in December 2018 (FY19).



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	



<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
General Funds	1,110	1,110	-	-	-	-	-	-	-	-	-
NVTa 30%	19,950	19,950	-	-	-	-	-	-	-	-	-
State Rev	18,212	13,248	4,964	-	-	-	-	-	-	-	-
Proffers	3,725	3,725	-	-	-	-	-	-	-	-	-
Service Authority Reimbursement	1,182	1,182	-	-	-	-	-	-	-	-	-
Total Revenue	\$44,179	\$39,215	\$4,964	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	3,109	2,872	238	-	-	-	-	-	-	-	-
Construction	39,818	8,474	23,509	7,835	-	-	-	-	-	7,835	-
Right of Way/Land	1,252	1,247	4	-	-	-	-	-	-	-	-
Total Expenditure	\$44,179	\$12,593	\$23,751	\$7,835	-	-	-	-	-	\$7,835	-

<i>Operating Impacts</i>	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24
Operating Expenses	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-
Additional Positions (FTEs)	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Neabsco Mills Commuter Parking Garage

Total Project Cost - \$37.4M

Project Description

The Neabsco Mills Commuter Garage (formerly referred to as the Potomac Town Center Commuter Parking Garage) is a planned 1,414-space garage within the vicinity of the Neabsco Mills Road widening project. The construction of the garage will serve as a park and ride lot for commuters, relieving the capacity needs at the Route 1 and Route 234 park and ride lots.

Service Impact

- **Connectivity and citizen satisfaction** - This project will increase connectivity and the number of citizens satisfied with their ease of travel within the County by providing additional commuter parking options for carpooling on the I-95 corridor.
- **Economic Development** - This project will increase the number of residents traveling in and around the retail businesses within the Neabsco Mills area.

Funding Source

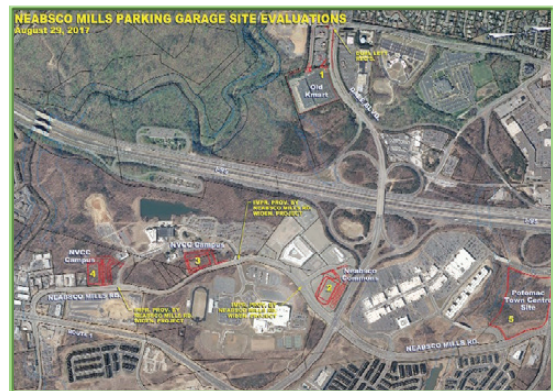
- **General fund (Woodbridge TRIP)** - \$140K
- **State funding allocated in the VDOT Six-Year Improvement Program** - \$900K
- **Federal funding** - \$36.4M

Project Milestones

- **Concept design and transportation impact analysis** of a proposed garage was completed in spring 2017 (FY17).
- **Location study** is scheduled to begin March/April 2018 (FY18) and end in July 2018 (FY19).

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	



- **Preliminary engineering** is scheduled to begin in September/October 2018 (FY19) and end April 2020 (FY20).
- **Construction** is scheduled to begin in May 2020 (FY20) with projected completion in spring 2022 (FY22).

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Capital Reserve	140	140	-	-	-	-	-	-	-	-	-
State Rev	900	-	900	-	-	-	-	-	-	-	-
Federal Rev	36,385	-	36,385	-	-	-	-	-	-	-	-
Total Revenue	\$37,425	\$140	\$37,285	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	2,140	56	1,000	584	500	-	-	-	-	1,084	-
Construction	35,285	-	-	-	3,115	19,585	12,585	-	-	35,285	-
Total Expenditure	\$37,425	\$56	\$1,000	\$584	\$3,615	\$19,585	\$12,585	-	-	\$36,369	-

<i>Operating Impacts</i>											
Operating Expenses	-	-	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-	-	-	-	-
Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Neabsco Mills Road (Route 1 to Dale Blvd)

Total Project Cost - \$27.8M

Project Description

The project will design and construct roadway improvements to widen Neabsco Mills Road from two-lanes to four-lanes from Route 1 to Dale Boulevard. The design of the project will include intersection improvements, bicycle/pedestrian facilities, curb and gutter, and a raised median.

Service Impact

- **Relieve congestion and improve safety** - Construction improvements along this corridor will help alleviate congestion and produce higher safety standards at intersections and dangerous curves. The highest service impact will be experienced during peak morning and evening travel periods.

Funding Sources

- **Regional Surface Transportation Program (RSTP)** - \$12.0M
- **State funding** - \$9.8M
- **NVTA 30% funding** - \$6.0M

Project Milestones

- **Design** began in June 2017 (FY17) and is scheduled for completion October 2020 (FY21).
- **Right-of-way acquisition** is scheduled to begin in October 2019 (FY20).
- **Construction** is scheduled to begin in October 2020 (FY21) for completion in August 2022 (FY23).



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
NVTA 30%	6,000	-	6,000	-	-	-	-	-	-	-	-
State Rev	9,775	1,615	8,160	-	-	-	-	-	-	-	-
Federal Rev	12,037	-	12,037	-	-	-	-	-	-	-	-
Total Revenue	\$27,812	\$1,615	\$26,197	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	1,801	39	661	661	440	-	-	-	-	1,101	-
Construction	21,711	-	-	-	-	8,000	11,000	2,711	-	21,711	-
Right of Way/Land	4,300	-	-	2,150	2,150	-	-	-	-	4,300	-
Total Expenditure	\$27,812	\$39	\$661	\$2,811	\$2,590	\$8,000	\$11,000	\$2,711	-	\$27,112	-

<i>Operating Impacts</i>										
	Operating Expenses	-	-	-	-	-	-	-	-	-
	Debt Service	-	-	-	-	-	-	-	-	-
	Revenue	-	-	-	-	-	-	-	-	-
	General Fund Requirement	-	-	-	-	-	-	-	-	-
	Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Route 1 (Featherstone to Marys Way)

Total Project Cost - \$95.8M

Project Description

The widening of Route 1 from Featherstone Road to Marys Way, spanning 1.3 miles, improves this section of roadway from a four-lane undivided highway to a six-lane divided highway. The project includes improvements at all intersections within the project limits including modification to signals, access management improvements, pedestrian improvements at signalized intersections, and a multi-use trail and sidewalk.

Service Impact

- **Relieve congestion and improve safety** - Widening this roadway will alleviate congestion and improve safety. The service impact will be most noticeable during peak morning and evening travel periods.

Funding Sources

- **NVTA 70% funding** - \$63.4M
- **RSTP** - \$21.5M
- **State funding** - \$10.9M

Project Milestones

- **Design** began in February 2015 (FY15) and was completed in October 2017 (FY18).
- **Right-of-way acquisition** began in fall 2015 (FY16) and was completed in June 2018 (FY18).
- **Construction** began in April 2018 (FY18) for completion in December 2021 (FY22).



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

Funding Sources (Revenue)	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
NVTA 70%	63,400	63,400	-	-	-	-	-	-	-	-	-
State Rev	10,900	10,900	-	-	-	-	-	-	-	-	-
Federal Rev	21,540	21,540	-	-	-	-	-	-	-	-	-
Total Revenue	\$95,840	\$95,840	-	-	-	-	-	-	-	-	-

Cost Categories (Expenditures)	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	5,292	2,786	2,506	-	-	-	-	-	-	-	-
Construction	50,548	303	9,000	15,000	13,880	8,365	4,000	-	-	41,245	-
Right of Way/Land	40,000	58	7,000	14,000	14,000	4,942	-	-	-	32,942	-
Total Expenditure	\$95,840	\$3,147	\$18,506	\$29,000	\$27,880	\$13,307	\$4,000	-	-	\$74,187	-

Operating Impacts		FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Operating Expenses		-	-	-	-	-	-	-	-	-
Debt Service		-	-	-	-	-	-	-	-	-
Revenue		-	-	-	-	-	-	-	-	-
General Fund Requirement		-	-	-	-	-	-	-	-	-
Additional Positions (FTEs)		-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Route 28 Phase 2 (Infantry Ln to Fitzwater Dr)

Total Project Cost - \$30.7M

Project Description

This project involves widening the currently undivided two-lane roadway section of Route 28 from Infantry Lane (north of realigned Vint Hill Road) to Fitzwater Drive to a four-lane divided roadway. Design and right-of-way costs for this roadway section were expensed with the first phase of this project (Route 28 Phase 1).

Service Impact

- **Relieve congestion and improve safety** - Widening this roadway will alleviate congestion and improve safety. The service impact will be most noticeable during peak morning and evening travel periods.

Funding Sources

- **NVTA 70% funding** - \$28.0M
- **NVTA 30% funding** - \$1.5M
- **Developer contributions (proffers)** - \$1.2M

Project Milestones

- **Design** was completed in June 2015 (FY15).
- **Right-of-way acquisition and utility relocation** began in October 2015 (FY16).
- **Construction** began in July 2017 (FY18) with completion scheduled in October 2019 (FY20).



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
NVTA 30%	1,500	-	1,500	-	-	-	-	-	-	-	-
NVTA 70%	28,000	28,000	-	-	-	-	-	-	-	-	-
Proffers	1,202	1,202	-	-	-	-	-	-	-	-	-
Total Revenue	\$30,702	\$29,202	\$1,500	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Construction	30,702	3	14,000	14,000	2,699	-	-	-	-	16,699	-
Total Expenditure	\$30,702	\$3	\$14,000	\$14,000	\$2,699	-	-	-	-	\$16,699	-

<i>Operating Impacts</i>	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Operating Expenses	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-	-	-
Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Route 28 Phase 3 (Pennsylvania Ave to Linton Hall)

Total Project Cost - \$26.7M

Project Description

The project widens Route 28 from Pennsylvania Avenue to Linton Hall Road. The project spans approximately 1.5 miles, which will widen this section of Route 28 from a four-lane undivided highway to a six-lane divided highway to include a multi-use trail and sidewalk. The funding will cover all phases of the project, which includes the study phase, preliminary engineering, final design, right-of-way, and construction.

Service Impact

- **Relieve congestion and improve safety** - Widening this roadway will alleviate congestion and improve safety. The service impact will be most noticeable during peak morning and evening travel periods.
- **Enhance connectivity** - This project will connect to the Route 28 project that involves the relocation of Route 215 (Vint Hill Road) and widening of Route 28 from Linton Hall Road to Fitzwater Drive.

Funding Sources

- **NVTA 70% funding** - \$26.7M

Project Milestones

- **Design** began in November 2016 (FY17) and is scheduled to be completed by June 2019 (FY19).
- **Right-of-way acquisition** is scheduled to be completed by June 2019 (FY19).
- **Construction** is scheduled to begin in June 2019 (FY19) for completion in June 2021 (FY21).



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
NVTA 70%	26,700	26,700	-	-	-	-	-	-	-	-	-
Total Revenue	\$26,700	\$26,700	-	-	-	-	-	-	-	-	-

<i>Cost Categories (Expenditures)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Design/Planning	1,300	32	1,200	68	-	-	-	-	-	68	-
Construction	23,150	-	-	2,676	11,856	8,618	-	-	-	23,150	-
Right of Way/Land	2,250	-	-	2,250	-	-	-	-	-	2,250	-
Total Expenditure	\$26,700	\$32	\$1,200	\$4,994	\$11,856	\$8,618	-	-	-	\$25,468	-

<i>Operating Impacts</i>	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Operating Expenses	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-	-	-
Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Transportation & Roadway Improvement Program

Total Project Cost - \$12.1M

Project Description

Transportation & Roadway Improvement Program (TRIP) consists of capital funding in each of the seven magisterial districts for the construction of small-scale capital improvements to Prince William County's local roadways and other transportation facilities.

TRIP contributions provide \$225,000 per year to each magisterial district from recordation tax revenue designated for transportation.

District supervisors determine funding allocations for projects to enhance mobility throughout the County.

Service Impact

- **Traffic flow** - Projects provide improved and safer traffic flow throughout the County.
- **Relieve congestion and improve safety** - Project construction helps to improve safety in targeted areas within magisterial districts.
- **Enhance pedestrian safety** - Projects provide enhanced safety and connectivity for pedestrians within the County.

Funding Sources

- **Capital Reserve** - \$546K
- **State funding** - \$1.1M
- **Federal funding** - \$1.0M
- **Recordation tax designated for transportation** - \$9.5M

Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

Project Milestones

➤ **Current TRIP funded projects include the following:**

- **Opitz Boulevard Sidewalk (Potomac Center Boulevard to Potomac Library)** - Scheduled for completion January 2019 (FY19).
- **Dumfries Road Sidewalk** - Scheduled for completion December 2018 (FY19).
- **Catharpin Street Lights** - Street lights will be installed after completion of an adjacent trail, specific project timelines are being developed.
- **Enterprise Lane Sidewalk** - Development of the project timeline has begun and will be finalized in FY19.

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Capital Reserve	546	404	142	-	-	-	-	-	-	-	-
State Rev	1,078	1,078	-	-	-	-	-	-	-	-	-
Federal Rev	1,046	461	585	-	-	-	-	-	-	-	-
Recordation Tax	9,450	-	-	1,575	1,575	1,575	1,575	1,575	1,575	9,450	-
Total Revenue	\$12,121	\$1,943	\$727	\$1,575	\$1,575	\$1,575	\$1,575	\$1,575	\$1,575	\$9,450	-

Cost Categories (Expenditures)

Design/Planning	943	166	777	-	-	-	-	-	-	-	-
Construction	10,880	-	838	592	-	-	-	-	-	592	9,450
Right of Way/Land	199	-	199	-	-	-	-	-	-	-	-
Conversion	99	99	-	-	-	-	-	-	-	-	-
Total Expenditure	\$12,121	\$266	\$1,813	\$592	-	-	-	-	-	\$592	\$9,450

Operating Impacts

Operating Expenses	-	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-	-	-	-
Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.

Vint Hill Road (Sudley Manor Dr to Garry Glen Dr)

Total Project Cost - \$15.6M

Project Description

This project widens Vint Hill Road from Sudley Manor Drive to Garry Glen Drive (approximately 1.2 miles). This project will also include sidewalk improvements along Kettle Run Road from Vint Hill Road to Patriot High School.

Service Impact

- **Relieve congestion and improve safety** - Construction of this roadway will help alleviate congestion and improve safety, specifically during peak morning and evening travel periods.

Funding Sources

- **Capital reserve (recording tax revenue designated for transportation)** - \$3.4M
- **Developer contributions (proffers)** - \$12.2M

Project Milestones

- **Design** began in May 2017 (FY17) and was completed in May 2018 (FY18).
- **Right-of-way acquisition** began in August 2017 (FY18) for completion in FY20.
- **Construction** is scheduled to begin July 2018 (FY19) for completion September 2019 (FY20).



Impact on Comprehensive Plan Chapters		
Cultural Resources	Libraries	Sewer
Economic Development	Parks & Open Space	Telecommunications
Environment	Police	Transportation
Fire & Rescue	Potable Water	
Land Use	Schools	

Impact on Strategic Plan Goals		
Robust Economy	Wellbeing	Mobility
Quality Education	Safe & Secure Community	

<i>Funding Sources (Revenue)</i>	Project Estimate	Prior Yrs. Actual	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY19 - FY24	Future
Capital Reserve	3,400	3,400	-	-	-	-	-	-	-	-	-
Proffers	12,200	8,300	2,734	1,166	-	-	-	-	-	1,166	-
Total Revenue	\$15,600	\$11,700	\$2,734	\$1,166	-	-	-	-	-	1,166	-

<i>Cost Categories (Expenditures)</i>	1,420	1,041	379	-	-	-	-	-	-	-	-
Design/Planning	1,420	1,041	379	-	-	-	-	-	-	-	-
Construction	11,591	208	7,274	3,110	1,000	-	-	-	-	4,110	-
Right of Way/Land	2,588	5	1,000	1,000	583	-	-	-	-	1,583	-
Total Expenditure	\$15,600	\$1,254	\$8,653	\$4,110	\$1,583	-	-	-	-	\$5,693	-

Operating Impacts

Operating Expenses	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	-
Revenue	-	-	-	-	-	-	-	-	-
General Fund Requirement	-	-	-	-	-	-	-	-	-
Additional Positions (FTEs)	-	-	-	-	-	-	-	-	-

Amounts expressed in thousands, excludes FTEs, therefore totals may not add due to rounding.