# FY 2018 Adopted Budget Plan



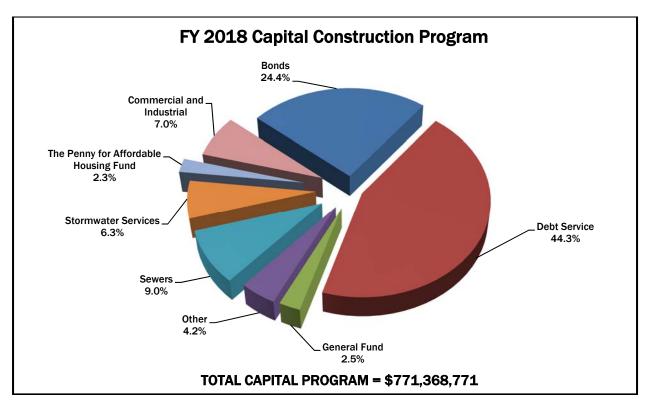
# Capital Projects Overview

#### **Summary of Capital Construction Program**

The Capital Construction Program of Fairfax County is organized to meet the existing and anticipated future needs of the citizens of the County and to enable the County government to provide necessary services. The Capital Construction Program (other than sanitary sewer construction and resource recovery projects) is primarily financed through transfers from the General Fund and the sale of General Obligation Bonds. Supplementing the General Fund and General Obligation Bond monies are additional funding sources including federal and state grants, contributions, and tax revenues from special revenue districts.

The Fairfax County Capital Construction Program includes, but is not limited to construction of both new and renovated school facilities, park facilities, transportation facilities, libraries, trails/sidewalks, fire stations, government centers with police substations, stormwater management facilities, athletic fields, housing units to provide affordable housing opportunities to citizens, commercial revitalization initiatives and infrastructure replacement and upgrades at County facilities. In addition, the Program includes contributions and obligations in support of the capital construction.

Funding in the amount of \$771,368,771 is included in FY 2018 for the County's Capital Construction Program. Of this amount, \$341,373,647 is included for debt service and \$429,995,124 is included for capital expenditures. The source of funding for capital expenditures includes: \$19,441,876 from the General Fund; \$188,000,000 in General Obligation Bonds; \$69,339,663 in sewer system revenues; \$17,627,927 in Real Estate revenues supporting the Affordable Housing Program; \$48,577,294 in Stormwater Services revenue; \$53,932,085 in Commercial and Industrial revenues; and \$33,076,279 in financing from various other sources. Other sources of financing include, but are not limited to, transfers from other funds, pro rata share deposits, user fees, developer contributions and/or payments.



#### **General Fund Support**

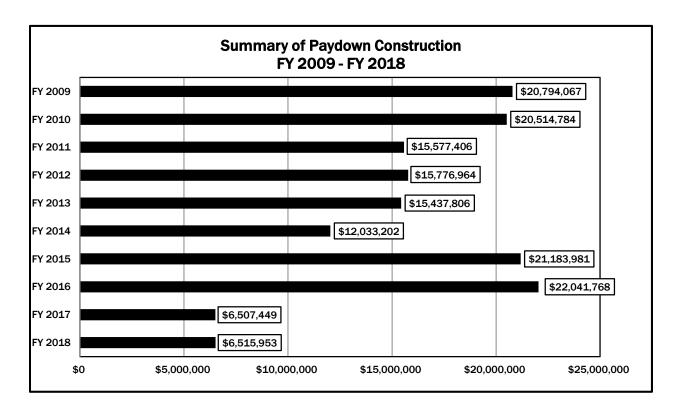
In FY 2018, an amount of \$19,441,876 is supported by the General Fund for capital projects. This includes an amount of \$12,925,923 for commitments, contributions and facility maintenance and \$6,515,953 for Paydown projects. The Paydown program has been redesigned at the request of the Board of Supervisors to exclude those projects that are on-going maintenance projects or annual contributions. Paydown now includes infrastructure replacement and upgrades, ADA compliance, athletic field improvements and other capital improvements. FY 2018 funding for the Paydown program is consistent with the FY 2017 Adopted Budget Plan; however, based on the Board of Supervisor's FY 2018 Budget Guidance to "increase funding for infrastructure both in the use of one-time balances and by increasing the level of funding in the annual budget", total funding of \$8,117,505 for Paydown projects was included as part of the FY 2017 Third Quarter Review. Of this amount, \$1,278,458 was included to support the continuation of ADA improvements at County owned facilities, \$800,000 was included to support the continuation of Park Authority ADA improvements, \$5,544,047 is included for infrastructure replacement and upgrades, and \$495,000 was included for other one-time capital projects.

The FY 2018 General Fund Supported Program is illustrated below:

FY 2018 Capital Construction/Paydown Summary								
	Commitments, Contributions and Facility Maintenance	Paydown	Total General Fund Support					
Athletic Field Maintenance and Sports Projects	\$4,435,338	\$1,700,000	\$6,135,338					
Park Authority Maintenance and Infrastructure Upgrades	\$960,000	\$1,690,000	\$2,650,000					
Environmental Initiatives	\$535,000	\$0	\$535,000					
On-Going Development and Revitalization	\$2,595,000	\$0	\$2,595,000					
Payments and Contributions	\$4,400,585	\$0	\$4,400,585					
County Infrastructure Replacement and Upgrades	\$0	\$1,825,953	\$1,825,953					
Reinvestment, Repair, and Emergency Maintenance of County Roads and Walkways	\$0	\$1,100,000	\$1,100,000					
Developer Default Improvements	\$0	\$200,000	\$200,000					
Total General Fund Support	\$12,925,923	\$6,515,953	\$19,441,876					

Reflects General Fund support. Other funding sources such as dedicated revenue and bond funding is not included in these totals.

The graph below depicts the level of Paydown funding between FY 2009 and FY 2018. The decrease in FY 2017 and 2018 is associated with the revised definition of Paydown program.



Specifics of the FY 2018 General Fund Supported Program include:

#### Athletic Field Maintenance and Sports Programs

FY 2018 funding in the amount of \$7,610,338 has been included for the athletic field maintenance and sports program. This level of funding is supported by a General Fund transfer of \$6,135,338 and revenue generated from the Athletic Services Fee in the amount of \$1,475,000. Of the Athletic Services Fee total, \$800,000 will be dedicated to the turf field replacement program, \$275,000 will be dedicated to custodial support for indoor sports organizations, \$250,000 will be dedicated to maintenance of school athletic fields, \$75,000 will be dedicated to synthetic turf field development, and \$75,000 will partially fund the Youth Sports Scholarship Program.

Specific funding levels associated with maintenance include:

♦ An amount of \$860,338 provides for specific contracted services aimed at improving the condition of athletic fields scheduled for community use at FCPS elementary schools, middle schools and centers. Maintenance responsibilities include mowing at a frequency of 32 times per year and annual aeration/over-seeding. This effort is supported entirely by the General Fund and is managed by the Park Authority.

- ♦ An amount of \$1,000,000 is dedicated to the maintenance of diamond fields at Fairfax County Public Schools and is partially supported by revenue generated by the Athletic Services Fee. This funding is used for contracted maintenance aimed at High School programs, athletic field renovations, and irrigation maintenance of non-Park Authority athletic fields. This includes 428 non-Park Authority athletic fields of which 361 are located at elementary, middle schools, and centers. All field maintenance is coordinated between the Park Authority and the Department of Neighborhood and Community Services. Of the total funding, an amount of \$250,000 is included for this program based on the FY 2018 projection of revenue generated from the Athletic Services Fee and \$750,000 is supported by the General Fund.
- ♦ An amount of \$50,000 is included for routine maintenance of girls' softball field amenities on select Fairfax County Public School sites. These amenities, such as dugouts, fencing and irrigation systems, were added or constructed by the County based on recommendations from the citizen-led Action Plan Review Team (APRT) in order to reduce disparities in the quality of fields assigned to boys' baseball and girls' softball organizations. Routine maintenance is necessary both to maintain equity and to ensure safety. For five years, funding of \$200,000 was provided to support Girls' Fast Pitch Field Maintenance improvements to various girls' softball fields throughout the County as requested by the Fairfax Athletic Inequities Reform (FAIR). FY 2018 funding will provide maintenance to the improvements and amenities previously made to girls' softball fields. This project is supported entirely by the General Fund and coordinated by Department of Neighborhood and Community Services.
- ♦ An amount of \$75,000 is included to support the development of synthetic turf fields. Fields are chosen through a review process based on the need in the community, projected community use and the field location and amenities. This effort is coordinated between the Park Authority and the Department of Neighborhood and Community Services and funding is provided from revenue generated from the Athletic Services Fee. It should be noted that as part of the FY 2013 Carryover Review, a Joint County School initiative was implemented to develop new synthetic turf fields throughout the County. This recommendation was based on the findings of the Synthetic Turf Field Task Force in its July 2013 report which determined the need for synthetic turf fields at 8 remaining high schools in the County that did not have turf fields. This program is now fully funded.
- ♦ An amount of \$2,700,000 is included for athletic field maintenance and repairs, irrigation repairs, lighting repairs, turf maintenance, utility costs, and capital equipment replacement costs. The Park Authority is responsible for full service maintenance on 268 athletic fields, of which 40 are synthetic turf, 228 are natural turf, 113 are lighted and 113 are irrigated. The fields are used by more than 200 youth and adult sports organizations as well as Fairfax County citizens. This effort is supported entirely by the General Fund and is managed by the Park Authority.
- ♦ An amount of \$275,000 is included for custodial support for indoor gyms used by sports organizations. The use of FCPS indoor facilities on the weekend requires FCPS to schedule a school system employee to open and close the facility. Revenue generated from the Athletic Services Fee is used to provide payment for FCPS staff, eliminating the need for indoor sports organizations to pay the hourly rate previously charged. This project is entirely supported by revenue generated from the Athletic Services Fee and is managed by the Department of Neighborhood and Community Services.

♦ An amount of \$150,000 is included for the Youth Sports Scholarship Program. The Youth Sports Scholarship Program provides support to youth from low-income families who want to participate in community-based sports programs. Of the total funding, an amount of \$75,000 is included for this program based on the FY 2018 projection of revenue generated from the Athletic Services Fee, and \$75,000 is supported by the General Fund.

Specific funding levels associated with Paydown capital improvements include:

- ♦ An amount of \$250,000 is included to continue the replacement and upgrading of Fairfax County Public Schools (FCPS) athletic field lighting systems at middle and high schools used by many County organizations. Funding supports a replacement and repair schedule, as well as improvements to bring existing lighting systems up to new standards. The school system's Office of Design and Construction Services ensures lighting standards are maintained and FCPS annually prioritizes funding for field lighting. FY 2018 funding supports the replacement and repair for one field's existing lighting systems. This project is supported entirely by the General Fund and coordinated by the Department of Neighborhood and Community Services.
- ♦ An amount of \$2,250,000 is included for the turf field replacement program in FY 2018. Funding of \$800,000 is supported by Athletic Service Fee revenue and \$1,450,000 is supported by the General Fund. There are a total of 86 synthetic turf fields throughout the County, of which 23 are FCPS stadium fields and 63 are County Parks/FCPS non-stadium fields. There are over 130,000 youth and adult participants (duplicated number) annually that benefit from rectangular turf fields. Funding is needed to address the growing need for field replacement and to support a replacement schedule over the next 10 years. If turf fields are not replaced when needed, they may need to be closed for safety reasons. Most manufacturers provide an 8-year warranty for a properly maintained synthetic turf field; however, it is a generally accepted practice to assume a life expectancy of the synthetic turf field of no more than 10 years. For planning purposes, the County adopted an annual budget estimate of a little more than half of the installation funding, which is a generally accepted practice for the industry. The current projected replacement cost per field is approximately \$450,000. Based on a projected 10-year replacement cycle and the current 63 County field inventory, replacement funding requires a regular financial commitment. Therefore, staff developed a 10-year replacement plan for the current inventory which requires revenue from the Athletic Fee and the General Fund support.

#### Park Inspections, Maintenance and Infrastructure Upgrades

FY 2018 funding in the amount of \$2,650,000 has been included for Park facilities and grounds. This amount includes an increase of \$741,000 over the FY 2017 Adopted Budget Plan funding level. The Park facilities maintained with General Fund monies include but are not limited to: rental properties, historic properties, nature centers, maintenance facilities, sheds, shelters, and office buildings. Park priorities are based on the assessment of current repair needs including safety and health issues, facility protection, facility renewal and improved services. In addition, Park maintenance requirements are generated through scheduled preventative maintenance or from user requests for facility alterations. Without significant reinvestment in building and grounds, older facilities can fall into a state of ever decreasing condition and functionality, resulting in increased maintenance and repair costs in the future. Preventative and repair work is required for roof replacement and repair, HVAC, electrical and lighting systems, fire alarm systems and security systems. Funding is essential to the maintenance and repair of building stabilization, including capital renewal of over 567,053 square feet at non-revenue supported Park Authority structures and buildings.

Specific projects funded in FY 2018 include:

#### Facility Maintenance Supported by the General Fund

- ♦ An amount of \$476,000 is provided to fund annual requirements for Parks grounds at non-revenue supported parks. The Park Authority is responsible for the care of a total park acreage of 23,372 acres of land, with 427 park site locations. This funding is used for mowing and other grounds maintenance, as well as arboreal services. Arboreal services are provided in response to Park staff and citizens' requests and include pruning, removal and inspections of tree health within the parks. There has been a rise in staff responses to requests for the inspection and removal of hazardous or fallen trees within the parks and those that may pose a threat to private properties.
- ♦ An amount of \$484,000 is included to provide corrective and preventive maintenance and inspections at over 567,053 square feet at non-revenue supported Park Authority structures and buildings. This maintenance includes the scheduled inspection and operational maintenance of HVAC, plumbing, electrical, security and fire alarm systems. This funding is critical in order to prevent the costly deterioration of facilities due to lack of preventative maintenance.

#### Infrastructure Replacement and Upgrades (Paydown)

- An amount of \$925,000 is included for general park infrastructure replacement and upgrades at nonsupported Park facilities. These requirements include: major non-recurring repairs/replacements and improvements to picnic shelters (\$220,000); renovations to outdoor restrooms (\$70,000); replacement of security and fire alarm systems (\$135,000); replacement of roofs (\$120,000); replacement of aged fire and security systems at the Burke Lake ice cream parlor (\$45,000); replacement HVAC systems and electrical panels at various locations (\$124,000); replacements/improvements to building structures as various locations (\$211,000). The FY 2018 funding level represents an increase of \$500,000 to begin to address a significant backlog of critical infrastructure replacement.
- An amount of \$765,000 is included to provide improvements and repairs to park facilities and amenities including tennis courts, picnic shelters, bridges and parking lots. In addition, funding will provide for annual maintenance and storm related repairs to 325 miles of trails with different surface types. This funding represents an increase of \$241,000 to begin to address neglected areas and to respond to citizen complaints concerning trail upkeep.

#### **Environmental Initiatives**

FY 2018 funding of \$535,000 has been included for environmental initiatives. FY 2018 projects were selected based on the project selection process supported by the Environmental Quality Advisory Council (EQAC). The selection process includes the application of specific project criteria, review of proposals from County agencies, and identification of projects for funding. Specific funding levels include:

♦ An amount of \$200,000 is included to continue the Invasive Plant Removal Program. The Park Authority manages this volunteer program, as well as other invasive removal initiatives. These programs restore hundreds of acres of important natural areas, protect tree canopy, and reach thousands of volunteers. Currently more than 12,000 trained volunteer leaders have contributed 37,400 hours of service since the program's inception in 2005, improving over 1,000 acres of parkland. The FY 2018 level of funding represents an increase of \$50,000 based on requirements to implement portions of unfunded treatment plans to control non-native invasive vegetation.

- An amount of \$5,000 is included for the Green Purchasing Program. This program is designed to support limited term staff to assist in clearly specifying environmental attributes during the County's procurement process. Fairfax County has a current inventory of over 2,400 contracts and emphasizing environmental attributes such as recycling, energy efficiency, durability and reduced toxicity during the procurement process can contribute to the purchase of green products, creating fiscal and environmental savings.
- An amount of \$6,600 is included for spring outreach programs. These programs reach thousands of people in the County and have a deep impact on many youth and adults. Programs include classroom presentations, outdoor learning experiences, outreach events and festivals, high school Envirothon competitions, rain barrel workshops, Seedling Sales, high school science fair project judging, stream monitoring, Enviroscape trainings, storm drain markings, the Sustainable Garden Tour and more.
- ♦ An amount of \$75,000 is included for the Watershed Protection and Energy Conservation Matching Grant Program. This program is intended to support Energy Education and Outreach initiatives and promote community engagement around sustainability and conservation issues. Specifically, the Watershed Protection and Energy Conservation matching grant program will provide financial incentives to empower homeowners through their associations to implement on-the-ground sustainability projects. The initiative builds on current programs that provide technical assistance, hands-on support, outreach and education to Fairfax County homeowners and residents. Projects will improve water quality, reduce greenhouse gas emissions and conserve energy and water. The \$75,000 program funding level will include printing and materials, matching grants of \$500 \$3,500 up to \$30,000 total for all grants and one limited term full-time position to support the program, conduct outreach and education, site assessments, inspections and other responsibilities.
- ♦ An amount of \$42,400 is included to design and plant a pollinator meadow at the Alban Department of Vehicle Services Maintenance Facility. The proposed landscaping improvement project at Alban complies with the state required storm water permit, shows commitment to federal clean water regulations, reduces maintenance costs, supports the Fairfax County Natural Landscaping Policy and exemplifies another step in the larger, multi-agency plan to save pollinators. The proposed project will treat runoff from the impervious surfaces on the site by making landscaping improvements that incorporate pollinator friendly practices. The result will be one meadow that will attract and feed insects such as bees and butterflies that pollinate plants. In addition, storm water runoff will be treated before running into Accotink creek.
- ♦ An amount of \$50,000 is included to support a Honey Bee Initiative Pollinator Program (HIPP) at the I-95 landfill property. This project provides for the installation of honeybee hives and pollinator habitat. It will provide educational opportunities for students and the community and increase sustainability and diversity of desirable plant species in the county while lowering maintenance costs at the landfill complex. The project will serve to transform the vista of the landfill with spring, summer and fall blooming plants to enhance the natural beauty of Fairfax County. As the plant species become established communities of perennially-blooming plants, this plant propagation will use nutrients available in the soil and will act to prevent nutrient runoff, protecting water quality and assisting in compliance with the County's Municipal Separate Storm Sewer System (MS4) permit.

- ♦ An amount of \$126,000 is included to install real-time water leak and freeze detection controls at County RECenter and historic sites. The water leak system is the most effective method of monitoring property water usage in real time and is designed to inform, alert and conserve water. Water sensors monitor pulses from water meters in real time. After a spike in water usage is detected the system will send alerts via text to a mobile device and email accounts. Water usage and trends can also be monitored on the systems dashboard. If a plumbing failure occurs when a building is vacant, the sensors will automatically tell the system to shut off the building's main water supply and an alert will be sent through the buildings security system. The same will be true if the temperature sensor detects temperature approaching freezing.
- ♦ An amount of \$30,000 is included for the purchase of two alternative fueled propane ride-on mowers for the Park Authority. Propane mowers can burn up to 35 percent cleaner than gas lawn mowers while reducing carbon emissions by 50 to 70 percent. This project is important for conserving energy and reducing environmental impacts while supporting the County's commitment to reduce carbon emissions.

In addition, an amount of \$58,140 has been provided in Fund 10030, Contributory Fund, to continue partnering with two non-profit agencies to support tree planting efforts throughout the County.

#### On-going Development and Revitalization

- ◆ Funding of \$1,260,000 is included to address only the most critical aspects of property management at the Laurel Hill property. Laurel Hill was transferred to the County by the federal government and includes approximately 2,340 acres of land and 1.48 million square feet of building space. Of the amount funded in FY 2018, \$860,000 will fund the Facilities Management Department's security, maintenance services, and grounds maintenance. The remaining \$400,000 will fund the Park Authority's critical maintenance activities and support staff.
- An amount of \$50,000 is included to support payments to developers for interest earned on conservation bond deposits. The County requires developers to contribute funds to ensure the conservation of existing natural resources. Upon satisfactory completion of projects, the developer is refunded the deposit with interest. This estimate is based on actual funding requirements in the past several years.
- An amount of \$75,000 is included to support the maintenance of geodetic survey control points for the geographic information system (GIS). This project also supports the development and maintenance of an interactive, GIS-based website that will provide convenient and cost effective monumentation information to the County's land development customers.
- ♦ An amount of \$750,000 is included to continue routine and non-routine repairs in five major commercial revitalization areas (Annandale, Route 1, Springfield, McLean and Baileys Crossroads). The goal of this program is to provide an enhanced level of infrastructure and right-of-way features in these urbanizing areas in order to facilitate pedestrian movements and create a "sense of place." The maintenance in the commercial revitalization areas currently includes trash removal and quality control inspections once a week; grass mowing and weed control once every two weeks; edging, bus shelter glass cleaning, and night light inspection once a month; fertilization and shearing once every three months; pest control, leaf removal, and shrub pruning once every four months; mulching and seasonal flower rotation once every six months; and irrigation maintenance as

necessary. FY 2018 funding will support improvements such as maintenance and/or replacement of degraded and/or failing sidewalk and crosswalk pavers.

♦ An amount of \$460,000 is included to support routine and non-routine repairs to the Tysons Corner and Silver Line project. More specifically, this project will provide funding for recurring landscaping maintenance associated with the Tyson's Corner Silver Line area along the Route 7 corridor, from Route 123 to the Dulles Toll Road. Routine maintenance services include landscape maintenance along the median and both sides of the road, trash removal, snow removal, and stormwater facility maintenance. The primary difference between maintenance requirements related to the Silver Line Metro system stations (Phase I) and other existing Metro stations is the County's maintenance requirement associated with 27 water quality swales under the raised tracks of the Silver Line located in VDOT Right-of-Way. Typical maintenance for the swales will include litter and sediment removal, vegetation care, and structural maintenance. It is anticipated that additional maintenance responsibilities may be added during the construction of Phase II of the Silver Line.

#### Payments and Obligations

- ◆ Funding of \$859,592 is included for the annual payment associated with the Salona property based on the Board of Supervisors' approval of the purchase of this conservation easement on September 26, 2005. The total cost of the property is \$18.2 million with payments scheduled through FY 2026.
- Funding of \$1,000,000 is included for the County's annual contribution to offset school operating and overhead costs associated with School-Age Child Care (SACC) Centers.
- ♦ Funding of \$2,540,993 is included for Fairfax County's contribution to the Northern Virginia Community College (NVCC). Funding provides for the continued construction and maintenance of various capital projects on college campuses within the NVCC system. The FY 2018 rate of \$2.25 per capita is applied to the population figure provided by the Weldon Cooper Center.

#### County Infrastructure Replacement and Upgrades

Infrastructure Replacement and Upgrades support the long-term needs of the County's capital assets to maximize the life of County facilities, avoid their obsolescence, and provide for planned repairs, improvements and restorations to make them suitable for organizational needs. Fairfax County will have a projected FY 2018 facility inventory of over 9 million square feet of space (excluding schools, parks, housing and human services residential facilities). This inventory continues to expand with the addition of newly constructed facilities, the renovation and expansion of existing facilities and the acquisition of additional property. With such a large inventory, it is critical that a planned program of repairs and restorations be maintained. In addition, the age of a major portion of this inventory of facilities is reaching a point where major reinvestments are required in the building subsystems.

Each year, the Facilities Management Department (FMD) prioritizes and classifies infrastructure replacement and upgrade projects into five categories. Projects are classified as Category F: urgent/safety related, or endangering life and/or property; Category D: critical systems beyond their useful life or in danger of possible failure; Category C: life-cycle repairs/replacements where repairs are no longer cost effective; Category B: repairs needed for improvements if funding is available, and Category A: good condition.

The requirement for County infrastructure replacement and upgrades is estimated at \$26 million per year. This estimate is based on current assessment data, as well as industry standards (2 percent of the current replacement value). Based on current staffing levels, the complexity of many of the projects, and the timeline for completing replacement and upgrade projects, it is estimated that approximately \$15 million per year would be a good funding goal. Due to budget constraints, in FY 2018, an amount of \$1,825,953 is included to address two of the top priority Category F projects. Funding of \$300,000 will provide for repairs to the Kings Park Library roof and replacement of the roof at the Kings Park Board of Supervisors wing. This building is currently experiencing water leaks, increased utility costs, and maintenance/repairs are no longer feasible. The Springfield Warehouse was installed in 1995 and is also experiencing water leaks, increased utility costs and maintenance issues. Funding in the amount of \$1,525,953 will provide for a replacement roof at this 204,708 square foot facility. Typically, roofs at County facilities range in warranty periods from 10 to 20 years, and both of these roofs have exceeded the warranty period and outlived their useful life. In addition, funding in the amount of \$5,544,047 was provided as part of the FY 2017 Third Quarter Review for a total of \$7,370,000 in FY 2018 identified projects. These projects, all category F, will address HVAC system upgrades and replacement, fire alarm system replacement and roof repairs and waterproofing.

#### Reinvestment, Repair, and Emergency Maintenance of County Roads and Walkways

- ♦ An amount of \$600,000 is included for the Reinvestment, Repair, and Emergency Maintenance of County Roads. The County is responsible for 38 miles of roadways not maintained by VDOT. Funding was previously approved to build an accurate inventory and condition assessment of County-owned roads and service drives. As a result, the 2015 Rinker study identified an amount of \$4 million in reinvestment funding required for the roadways with the most hazardous conditions, as well as increased annual funding for emergency repairs. On-going road maintenance includes, but is not limited to, pothole repair, pavement rehabilitation, sidewalk and curb repairs, traffic and pedestrian signage, hazardous tree removal, grading, snow and ice control, replacement of substandard materials, patching of existing travelways, minor ditching and stabilization of shoulders, slopes and drainage facilities. It is anticipated that funding for the \$4 million reinvestment program will be funded over a 5-year period, with funding from the allocation of the Capital Sinking Fund. Annual funding of \$600,000 in FY 2018 is also consistent with the 5-year plan.
- ◆ An amount of \$500,000 is included to meet emergency and critical infrastructure requirements for County trails, sidewalks and pedestrian bridges. In addition to the infrastructure replacement and upgrades of 673 miles of walkways, the Department of Public Works and Environmental Services (DPWES) and the Fairfax County Department of Transportation are responsible of 69 pedestrian bridges. On-going critical repairs include the correction of safety and hazardous conditions such as the damaged trail surfaces, retaining wall failures, handrail repairs, and the rehabilitation of pedestrian bridges. Funding was previously approved to build an accurate inventory and condition assessment of County walkways and revealed that there are approximately 10 miles of trails in extremely poor condition requiring \$3 million in reinvestment. It is anticipated that funding for the \$3 million reinvestment program will be funded over a 3-year period, with funding from the allocation of the Capital Sinking Fund. Annual investment funding is recommended to increase each year. The FY 2018 annual funding level is consistent with the recommendation of the 3-year plan.

#### **Developer Default Improvements**

Funding of \$300,000 is included to support the Developer Default program, including \$200,000 in General Fund monies and \$100,000 in anticipated developer default revenue. This project is necessitated by economic conditions surrounding the construction industry that result in some developers not completing required public facilities, including acceptance of roads by the state, walkways and storm drainage improvements.

#### ADA Compliance

No funding is included in FY 2018 for the Americans with Disabilities Act (ADA) Compliance Program. The Board of Supervisors approved funding in the amount of \$1,278,458 to support the continuation of ADA improvements at County owned facilities and \$800,000 to support the continuation of Park Authority ADA improvements as part of the FY 2017 Third Quarter Review. The continuation of Park Authority ADA improvements and the continuation of ADA improvements at County owned facilities are required as part of the Department of Justice audit and identified in the settlement agreement signed by the Board of Supervisors on January 28, 2011. In May and June 2007, the United States Department of Justice conducted an audit of County government facilities and programs to determine compliance with the ADA. The audit of Fairfax County was part of a national audit program, and was not a result of any specific complaints in the County. The audit listed violations ranging from updating emergency management procedures, web-based services, and general communication procedures, to improving access to buildings, parking garages, restrooms and elevators. In addition, the County and Parks are required as part of the agreement with the DOJ to perform assessments at all remaining facilities. These assessments are now complete and resulted in increased retrofitting requirements.

#### **Capital General Obligation Bond Program**

The Board of Supervisors annually reviews cash requirements for capital projects financed by General Obligation bonds to determine the ongoing schedule for construction of currently funded projects as well as those capital projects in the early planning stages. The bond capital program is reviewed annually by the Board of Supervisors in association with the Capital Improvement Program (CIP) and revisions are made to cashflow estimates and appropriation levels as needed. The CIP is designed to balance the need for public facilities as expressed by the countywide land use plan with the fiscal capability of the County to meet those needs. The CIP serves as a general planning guide for the construction of general purpose, school, and public facilities in the County. The County's ability to support the CIP is entirely dependent upon and linked to the operating budget. The size of the bond program in particular is linked to the approved General Fund disbursement level.

The Virginia Constitution requires that long-term debt pledged by the full faith and credit of the County can only be approved by voter referendum. There is no statutory limit on the amount of debt the voters can approve. It is the County's own policy to manage debt within the guidelines identified in the *Ten Principles of Sound Financial Management*. The *Ten Principles* specifically indicate that debt service expenditures as a percentage of General Fund disbursements should remain under 10 percent and that the percentage of debt to estimated market value of assessed property should remain under 3 percent. The County continues to maintain these debt ratios with debt service requirements as a percentage of General Fund disbursements at 8.39 percent, and net debt as a percentage of market value at 1.19 percent as of June 30, 2016.

Continual monitoring and adjustments to the County's CIP have been necessary, as economic conditions have changed. The FY 2018 – FY 2022 Adopted Capital Improvement Program (With Future Fiscal Years to 2027) was approved on April 25, 2017. It should be noted that the operating budget is directly affected by the approval of the capital budget and its capital project components. The operating budget must support the debt service costs of all bond issues related to the capital budget, as well as the operating maintenance costs for each facility and improvement.

In FY 2018, an amount of \$188,000,000 is included in General Obligation Bond funding. Specific funding levels in FY 2018 include:

- Funding in the amount of \$155,000,000 is included for various school construction projects financed by General Obligation Bonds. For details, see the <u>Fairfax County Public School's FY 2018 Approved Budget</u>.
- Funding in the amount of \$30,000,000 is included to support the 117-mile Metrorail system as well as to maintain and/or acquire facilities, equipment, railcars and buses.
- ◆ Funding of \$3,000,000 is included for the County's annual contribution to the Northern Virginia Regional Park Authority (NVRPA) Capital program. The NVRPA Park system includes 30 parks and over 12,000 acres of land, over 100 miles of trails, numerous historic sites, five waterparks, two family campgrounds, three golf courses, a nature center, botanical gardens, rental cabins and cottages, five marinas, and over 40 miles of protected shoreline along major rivers and reservoirs.

#### Stormwater Management Program

Stormwater Services are essential to protect public safety, preserve property values and support environmental mandates such as those aimed at protecting the Chesapeake Bay and the water quality of other local jurisdictional waterways. Projects in this fund include repairs to stormwater infrastructure, measures to improve water quality such as stream stabilization, rehabilitation, safety upgrades of state regulated dams, repair and rehabilitation of underground pipe systems, surface channels, structural flood proofing and best management practices (BMP), site retrofits and other improvements. This funding also supports the implementation of watershed master plans, public outreach efforts, and stormwater monitoring activities as well as operational maintenance programs related to the existing storm drainage infrastructure as it pertains to stormwater conveyance and stormwater quality improvements.

As part of the <u>FY 2010 Adopted Budget Plan</u>, a special service district was created to support the Stormwater Management Program and provide a dedicated funding source for both operating and capital project requirements, as authorized by Code of Virginia Ann. Sections 15.2-2400. In FY 2018, the stormwater service rate will increase from \$0.0275 to \$0.0300 per \$100 of assessed real estate value. In FY 2015, staff developed a five-year rate plan and a phased approach for funding and staffing to support the anticipated regulatory increases. The 5-year spending plan includes approximately \$225 million in required projects and operational support; therefore, the plan includes an annual increase in the rate of ½ penny each year. The FY 2018 rate of \$0.0300 per \$100 of assessed real estate value is consistent with the 5-year plan.

The FY 2018 levy of \$0.0300 will generate \$70,398,306, supporting \$20,696,012 for staff and operational costs; \$48,577,294 for capital project implementation including, infrastructure reinvestment, regulatory requirements, dam safety, and contributory funding requirements; and \$1,125,000 transferred to the General Fund to partially offset central support services such as Human Resources, Purchasing, Budget and other administrative services supported by the General Fund which benefit this fund.

In FY 2018, an amount of \$48,577,294 is included for Stormwater Services capital projects. Specific funding levels in FY 2018 include:

- ◆ Funding in the amount \$6,500,000 is included for the Stormwater Regulatory Program. The County is required by federal law to operate under the conditions of a state issued Municipal Separate Storm Sewer System (MS4) Permit. Stormwater staff annually evaluates funding required to meet the increasing federal and state regulatory requirements pertaining to the MS4 Permit requirements, and State and Federal mandates associated with controlling water pollution delivered to local streams and the Chesapeake Bay. The MS4 Permit allows the County to discharge stormwater from its stormwater systems into state and federal waters. The County currently owns and/or operates approximately 7,000 regulated outfalls within the stormwater system that are governed by the permit. The current permit was issued to the County in April 2015. The permit requires the County to better document the stormwater management facility inventory, enhance public outreach and education efforts, increase water quality monitoring efforts, provide stormwater management and stormwater control training to all County employees, and thoroughly document all of these enhanced efforts. The permit also requires the County to implement sufficient stormwater projects that will reduce the nutrients and sediment delivered to the Chesapeake Bay in compliance with the Chesapeake Bay TMDL implementation plan adopted by the State.
- Funding in the amount of \$7,500,000 is included for Dam Safety and Facility Rehabilitation. There are currently more than 6,100 stormwater management facilities in service that range in size from small rain gardens to large state regulated flood control dams. The County is responsible for inspecting both County owned and privately owned facilities and for maintaining County owned facilities. This inventory increases yearly and is projected to continually increase as new developments and redevelopment sites are required to install stormwater management controls. This program maintains the control structures and dams that control and treat the water flowing through County owned facilities. This initiative also includes the removal of sediment that occurs in both wet and dry stormwater management facilities to ensure that adequate capacity is maintained to treat the stormwater. The program results in approximately 25 projects annually that require redesign and construction management activities as well as contract management and maintenance responsibilities.
- ♦ Funding in the amount of \$7,000,000 is included for Conveyance System Inspections, Development and Rehabilitation. The County owns and operates approximately 1,400 miles of underground stormwater pipes and improved channels with an estimated replacement value of over one billion dollars. The County began performing internal inspections of the pipes in FY 2006. The initial results showed that more than 5 percent of the pipes were in complete failure and an additional 15 percent of them required immediate repair. Increased MS4 Permit regulations apply to these 1,400 miles of existing conveyance systems and 62,000 stormwater structures. Acceptable industry standards indicate that one dollar reinvested in infrastructure saves seven dollars in the asset's life and 70 dollars if asset failure occurs. The goal of this program is to inspect pipes on a 20-year cycle and rehabilitate pipes and improved channels before total failure occurs. Total funding in FY 2018 includes \$2.0 million for inspections and development and \$5.0 million for rehabilitation.

- Funding in the amount of \$22,126,119 is included for Stream and Water Quality Improvements. This program funds water quality projects necessary to mitigate the impacts to local streams and the Chesapeake Bay resulting from urban stormwater runoff. This includes water quality projects such as construction of stormwater management ponds, implementation of low impact development techniques on stormwater facilities, stream restorations, and approximately 1,700 water quality projects identified in the completed countywide Watershed Management Plans. In addition, Total Maximum Daily Load (TMDL) requirements for local streams and the Chesapeake Bay are the regulatory process by which pollutants entering impaired water bodies are reduced. The Chesapeake Bay TMDL was established by the EPA and requires that MS4 communities as well as other dischargers implement measures to significantly reduce the nitrogen, phosphorous and sediment loads entering waters draining to the Bay by 2025. Compliance with the Bay TMDL requires that the County should undertake construction of new stormwater facilities, retrofit existing facilities and properties, and increase maintenance. Preliminary estimates indicate that the projects needed to bring the County's stormwater system into compliance with the Bay TMDL could cost between \$70 and \$90 million per year. Most of the 1,700 watershed management plan projects contribute towards achieving the bay and local stream TMDL requirements.
- ♦ Funding in the amount of \$1,000,000 is included for the Emergency and Flood Control Program. This program supports flood control projects for unanticipated flooding events that impact storm systems and flood residential properties. The program provides annual funding for scoping, design, and minor construction activities related to flood mitigation projects.
- Funding in the amount of \$3,000,000 is included for Flood Prevention in the Huntington area. This program will address the health and public safety concerns associated with the recurring flooding in the Huntington area by designing and constructing a levee and community drainage improvements that will ensure the safe operation and long-term sustainability of this critical piece of infrastructure. Initial funding of \$30,000,000 was approved as part of the 2012 Stormwater Bond Referendum. The bond amount approved by the voters was based on a preliminary design by the US Army Corps of Engineers (USACE). The current, updated total project estimate is approximately \$40,000,000. To accommodate funding beyond that currently approved, a strategy was developed using a portion of revenue from the Stormwater Service District allocated to the Stream and Water Quality Improvements Program. The strategy reallocates a total of \$10,000,000 over a four year period. Use of the Stormwater Service District for this project is consistent with the goals of the program to address structural flooding and other critical community stormwater needs.
- ♦ Funding in the amount of \$800,000 is included for the Stormwater Allocations to Towns project. On April 18, 2012, the State Legislature passed SB 227 which entitles the Towns of Herndon and Vienna to all revenues collected within their boundaries by Fairfax County's stormwater service district. An agreement was developed for a coordinated program whereby the Towns remain part of the County's service district and the County returns 25 percent of the revenue collected from properties within each town. This allows for the towns to provide services independently such as maintenance and operation of stormwater pipes, manholes, and catch basins. The remaining 75 percent remains with the County and the County takes on the responsibility for the Towns' Chesapeake Bay TMDL requirements as well as other TMDL and MS4 requirements. This provides for an approach that is based on watersheds rather than on jurisdictional lines.

Lastly, FY 2018 funding of \$651,175 is included for County contributions. An amount of \$527,730 is provided for the Northern Virginia Soil and Water Conservation District (NVSWCD). The NVSWCD is an independent subdivision of the Commonwealth of Virginia that provides leadership in the conservation and protection of Fairfax County's soil and water resources. The work of NVSWCD supports many of the environmental efforts set forth in the Board of Supervisors' Environmental Excellence 20-year Vision Plan. The goal of the NVSWCD is to continue to improve the quality of the environment and general welfare of the citizens of Fairfax County by providing them with a means of dealing with soil, water conservation and related natural resource problems. It provides County agencies with comprehensive environmental evaluations for proposed land use changes with particular attention to the properties of soils, erosion potential, drainage and the impact on the surrounding environment. NVSWCD has consistently been able to create partnerships and leverage state, federal and private resources to benefit natural resources protection in Fairfax County. In addition, an amount of \$123,445 is provided for the Occoquan Watershed Monitoring Program (OWMP) to ensure that water quality is monitored and protected in the Occoquan Watershed. Given the many diverse uses of the land and water resources in the Occoquan Watershed (agriculture, urban residential development, commercial and industrial activity, water supply, and wastewater disposal), the OWMP plays a critical role as the unbiased interpreter of basin water quality information.

#### The Penny for Affordable Housing Fund

The Penny for Affordable Housing Fund, formerly known as the Housing Flexibility Fund, was established in FY 2006 and is designed to serve as a readily available local funding source with the flexibility to preserve and promote the development of affordable housing. For fiscal years 2006 through 2009, the Board of Supervisors dedicated revenue commensurate with the value of one cent from the Real Estate tax rate to the Preservation of Affordable Housing, a major County priority. In FY 2010, the Board of Supervisors reduced annual funding to Fund 30300, The Penny for Affordable Housing Fund, by 50 percent in order to balance the budget. From FY 2006 through FY 2017, the fund has provided a total of \$204.5 million for affordable housing in Fairfax County.

A total of 2,786 affordable units have been preserved for both homeownership and rental purposes in a variety of large and small projects. Of that number, 252 units are preserved as affordable housing for periods of five years or less, and 2,534 units are preserved for 20 years or longer. A variety of funding sources were used to preserve these units; however, Fund 30300 funds were critical for the preservation of several large multifamily complexes purchased by private nonprofits and for-profit organizations. These purchases represent a significant portion of the units: 319 units in Janna Lee Villages in the Hybla Valley area (Lee District), 148 units in Hollybrooke II and III in the Seven Corners area of Falls Church (Mason District), 105 units in Coralain Gardens located on Arlington Boulevard (Route 50) in Falls Church (Mason District), 90 units in Sunset Park Apartments in Falls Church (Mason District), 130 units at Mount Vernon House in Alexandria (Mount Vernon District), and 216 units in Madison Ridge in Centreville (Sully District). These funds were also instrumental in preserving two large complexes: 180 units at the Crescent apartment complex in Reston (Hunter Mill District) and 672 units at the Wedgewood Apartments complex in Annandale (Braddock District). These projects were purchased by the County and are being managed by the Fairfax County Redevelopment and Housing Authority (FCRHA) as part of the low- and moderateincome rental program. Without the availability of Fund 30300, both of these apartment complexes may have been lost as affordable housing.

In FY 2018, Fund 30300 funding of \$17,627,927 is allocated as follows: \$5,752,657 for Wedgewood for the annual debt service, \$2,494,372 for Crescent Apartments annual debt service, \$3,000,000 for the Bridging Affordability Program, \$6,083,398 for the Housing Blueprint Project, and \$297,500 for Affordable/Workforce Housing.

#### **Wastewater Management System**

The Fairfax County Wastewater Management Program is operated, maintained, and managed within the

Department of Public Works and Environmental Services (DPWES), and includes nearly 3,430 miles of sewer lines, 63 pumping stations, and 57 flow metering stations, covering approximately 234 square miles of the County's 407-square-mile land and water area. Treatment of wastewater generated is provided primarily through six regional wastewater collection and treatment plants. One of the six regional plants is the County owned and operated Noman M. Cole, Jr. Pollution Control Plant (NCPCP), which is currently permitted to treat 67 million gallons per day (MGD) of flow. By agreement, other regional facilities include the Alexandria Renew Enterprises (ARenew) Treatment Plant,



Photo of the Noman M. Cole, Jr. Pollution Control Plant

the Upper Occoquan Service Authority Plant, the District of Columbia Blue Plains Plant, Loudoun Water and the Arlington County Plant. Fairfax County utilizes all of these facilities to accommodate a total treatment capacity of 157 MGD.

Total FY 2018 funding is \$69,339,663 including support for the following projects:

- ◆ Funding in the amount of \$12,424,000 is included for facility improvements to the DC Water's Blue Plains Treatment Plant to comply with nutrient discharge limits. Projects supporting the Enhanced Nitrogen Removal Program include providing an additional 40 million gallons of new anoxic reactor capacity for nitrogen removal, a new post aeration facility, pump station, and other new facilities to store and feed methanol and alternative sources of carbon. Construction continues on this project and is scheduled to be completed in 2018. In addition, funding will also provide for the Clean Rivers Project to prevent combined storm and sanitary overflows during major storm events by storing the overflow in tunnels until the plant has capacity to fully treat the water. This project is currently under construction and is scheduled to be completed by the summer of 2018. The County is responsible for 31 mgd of the 370 mgd or 8.38 percent of the capacity at the Blue Plains Treatment Plant.
- ♦ Funding in the amount of \$18,034,000 will fund the County's share of the upgrades to the Alexandria Renew Enterprises Treatment Plant (ARenew). Funding supports the design and construction of a State of the Art Nitrogen Upgrade Program (SANUP) for nitrogen removal. The SANUP will be completed in 6 phases to allow the spread of design and construction costs over an 8-year period. The long range plan was completed in 2008, and 2 of the 6 phases were completed in 2011; the remaining phases will be completed by 2018. FY 2018 funding is included for engineering design, construction management, landscape architecture and engineering services during construction to comply with the nutrient discharge limits. The County is responsible for 32.4 mgd of the 54 mgd or 60 percent of the capacity at the Alexandria Renew Enterprises' Treatment Plant.

- ♦ Funding in the amount of \$1,164,000 is included for plant upgrades at the Arlington Wastewater Treatment Plan. This funding will support annual repair and rehabilitation work for various facilities as scheduled in Arlington County's Capital Improvement Program. The County is responsible for 3.0 of the 40 mgd or 7.5 percent of capacity at the Arlington Wastewater Treatment Plant.
- ♦ Funding in the amount of \$14,680,739 is included for the continuation of systematic rehabilitation of structures and equipment at the Noman M. Cole, Jr. Pollution Control Plant (NMCPCP). FY 2018 funding will provide for the rehabilitation and replacement of pumps, gates, and valves; stormwater runoff improvements, and continuation of the rehabilitation of the motor control centers/distribution centers (MCC/DC) and raw wastewater pump station facility.
- ♦ Funding in the amount of \$3,000,000 is included to satisfy the annual appropriation requirement for the County's Extension and Improvement (E&I) Program as approved by the Board of Supervisors on April 12, 2011. This policy adjusts the Connection Charges such that the future cost of the E&I Program is shared equally between the County's Sewer Fund and the property owners seeking public sewer service, when the Health Department determines the properties' septic systems have failed.
- Funding in the amount of \$5,616,773 is provided for the systematic rehabilitation of the County's 3,430 miles of sanitary sewer lines. Rehabilitation includes, among other things, the use of trenchless technology to rehabilitate approximately 20 miles of sewer per year.
- ◆ Funding in the amount of \$4,487,642 is included to complete the rehabilitation of force mains at the Barcroft I, Barcroft II, Langley School, Mt. Vernon Terrance, Wellington I, Ravenwood, Springfield, Wayne Wood I, and Wayne Wood II.
- Funding in the amount of \$5,673,694 is included for the regularly scheduled repair, renovation, and replacement of pumping station equipment and facilities. There will be four pump stations in the design phase and three pump stations in the construction phase in FY 2018.
- Funding in the amount of \$750,000 is included for the planned replacement of sewer meters throughout the County. FY 2018 funding is provided for the continuation of replacing sewer meters used for measuring wastewater flow to and from other jurisdictions for billing and monitoring purposes as well as portable meters used in infiltration and inflow studies to measure wet weather flows.
- ♦ Funding in the amount of \$1,256,000 is included for the condition assessment of 166 segments of 8 to 15 inch gravity sewer lines and provides recommendations for the rehabilitation and/or replacement alternatives. FY 2018 funding will provide for the next phase of this program, which includes construction work.
- ◆ Funding in the amount of \$2,140,815 is included for the condition assessment of 49 miles of sewer lines with a diameter of 15 inches or larger and provides recommendations for the rehabilitation and/or replacement alternatives. FY 2018 funding will provide for the next phase of this program which includes construction work.
- Funding in the amount of \$112,000 is included for the maintenance of the Robert P. McMath Facility that is the headquarters for the Wastewater Collection Division.

#### **County and Regional Transportation Projects Fund**

County and Regional Transportation Projects Fund supports the County's implementation of new transportation projects and is funded by the commercial and industrial real estate tax for transportation and Northern Virginia Transportation Authority (NVTA) local tax revenues. The taxing authority for commercial and industrial real property was authorized under the Transportation Funding and Reform Act of 2007 (HB 3202), approved by the Virginia General Assembly on April 4, 2007, and implemented by the Board of Supervisors as part of the <u>FY 2009 Adopted Budget Plan</u>. This revenue helps accelerate the County's implementation of roadway, transit and pedestrian projects.

HB 3202 allows localities to assess a tax on the value of commercial and industrial real estate and to use the proceeds on new transportation improvements. The County's FY 2018 rate is \$0.125 per \$100 of assessed value (the maximum allowed per state code), which will generate approximately \$53.3 million in revenue. This estimate is based on current projections in the commercial real estate market.

On April 3, 2013, the Virginia General Assembly approved HB 2313, a transportation funding package. The bill included regional components for planning districts that meet certain thresholds (population, registered vehicles, and transit ridership). Northern Virginia meets these criteria for the imposition of certain taxes, and HB 2313 is expected to generate over \$300 million per year for transportation projects in the region. The bill mandates that 70 percent of this regional funding be allocated by the NVTA, with the remaining 30 percent provided to the individual localities embraced within NVTA for their determination. Fairfax County's local share of HB 2313 funds is projected to be \$42.7 million in FY 2017 and \$43.6 million in FY 2018. By adopting the commercial and industrial property tax rate of \$0.125, the County qualifies to receive these 30 percent revenues.

FY 2018 disbursements include \$8.9 million for operating and staff support for project implementation; \$50.9 million for capital projects; \$3.0 million for EDA transportation bonds debt service; and a \$34.2 million transfer to Fund 40000, County Transit Systems, for the FAIRFAX CONNECTOR for bus service.

#### **Other Financing**

Funding in the amount of \$33,076,279 includes \$1,575,000 that is associated with projects discussed above including \$100,000 in developer default revenues and \$1,475,000 in athletic services fees. The remaining \$31,501,279 supports various other projects financed by other sources of revenue. Specific funding levels in FY 2018 include:

#### Housing:

- ♦ Funding of \$147,932 is included for the Undesignated Housing Trust Fund project for reallocation to specific projects when identified and approved by both the Fairfax County Redevelopment and Housing Authority (FCRHA) and Board of Supervisors during FY 2018.
- Funding in the amount of \$410,000 is included for the Land/Unit Acquisition project for reallocation to specific projects when identified and approved by both the FCRHA and Board of Supervisors during FY 2018.

#### Other:

- Funding in the amount of \$1,904,000 will support improvements to Reston Community Center, as well as operational enhancements to the natatorium.
- ◆ Funding in the amount of \$1,200,000 is included for Phase II of the Intelligent Transportation Systems (ITS) project for County Transit Systems. The Intelligent Transportation System (ITS) includes computer aided dispatching (CAD) and automatic vehicle locator (AVL) systems, mobile data terminals, automated passenger counters, stop annunciators, and real-time passenger information. Reports and information generated from the ITS system allow for more efficient scheduling, route refinements, and faster schedule development, which will increase FAIRFAX CONNECTOR operational efficiencies and provide real-time service information for riders.
- ♦ Funding in the amount of \$1,100,000 is included to work with WMATA and their vendor to develop a program which will allow FAIRFAX CONNECTOR to continue using the SmarTrip fare collection system. This funding is necessary to replace the current system, which is obsolete, and will enable Fairfax County to continue participating in the regional fare program.
- ♦ Funding in the amount of \$2,550,000 includes \$1,600,000 to support the construction of an enclosed Solid Waste facility to handle the Hazardous Waste Materials at the I-95 Complex improving environmental conditions and customer service. The building will be comprised of two components: a base structure to provide push walls for dumping and loading activities as well as sound suppression, and a fabric structure to provide protection from the elements, as well as natural lighting with no internal columns for dumping clearance inside the structure. In addition, an amount of \$950,000 will support the I-95 Landfill Lot B Redesign project.
- ◆ Funding in the amount of \$24,189,347 is included for various school construction projects financed from a state construction grant, Parent Teachers Association/Parent Teacher Organization receipts, and transfers from Fund S31000, Public School Construction Fund. For more details, see the <a href="Fairfax County-Public School's FY 2018 Adopted Budget">Fairfax County-Public School's FY 2018 Adopted Budget</a>.

#### **Capital Construction and Operating Expenditure Interaction**

To maintain a balanced budget, annual revenues are projected and operating and capital construction expenditures are identified to determine the County's overall requirements and funding availability. Funding levels for capital construction projects are based on the merits of a particular project together with the available funding from all financing sources, with primary reliance on General Obligation bonds. The Board of Supervisors annually reviews cash requirements for capital project financing.

The County's capital program has a direct impact on the operating budget, particularly in association with the establishment and opening of new facilities. The Board of Supervisors continues to be cognizant of the effect of the completion of capital projects on the County's operating budget. The cost of operating new or expanded facilities or infrastructure is included in the fiscal year the facility becomes operational. However, in some cases, like the construction of the expanded and renovated Courthouse, the operating impact may be absorbed gradually over several years. For example, costs associated with loose and systems furniture, moving expenses, providing for additional security and staffing, renovating existing courtrooms, implementing new courtroom technology, and setting up an Operations and Maintenance satellite shop with staff dedicated to the courthouse facility are all costs that can be phased in over time, thus spreading the operating impact over a number of years, rather than concentrating costs in the fiscal year the facility opens.

Capital projects can affect future operating budgets either positively or negatively due to an increase or decrease in maintenance costs, or by providing capacity for new programs or services. Such impacts vary widely from project to project and, as such, are evaluated individually. Operating costs resulting from the completion of a capital project differ greatly depending on the type of capital project and construction delays. A new facility, for example, will often require additional staff, an increase in utility costs, and increases in custodial, security and maintenance contracts. Conversely, a capital project that renovates an existing facility may reduce operating expenditures due to a decrease in necessary maintenance costs. For example, funding HVAC and electrical system repair or replacement projects has the potential to reduce operating expenditures by reducing costly maintenance and staff time spent addressing critical system repairs. The same is true for projects such as fire alarms, emergency generators, and carpet replacement, as well as roof repairs. Investing in aging and deteriorating building systems and components can alleviate the need for future expenditures, often resulting in significant cost avoidance. Additionally, if a system failure should occur, there is the potential that a County facility must shut down, suspending services to citizens and disrupting County business. The County's emphasis on capital renewal and preventative maintenance works to ensure these kinds of interruptions are avoided.

The opening of new County facilities results in the widest range of operating costs. For example, equipment and furniture, a book buy, additional staff, and an increase in utility costs may all be necessary to prepare for the opening of a new library or extensive library expansion/renovation. These costs are estimated as the project is developed and included in the appropriate agency budget in the year the facility becomes operational.

#### New, Renovated, or Expanded County Facilities in FY 2018

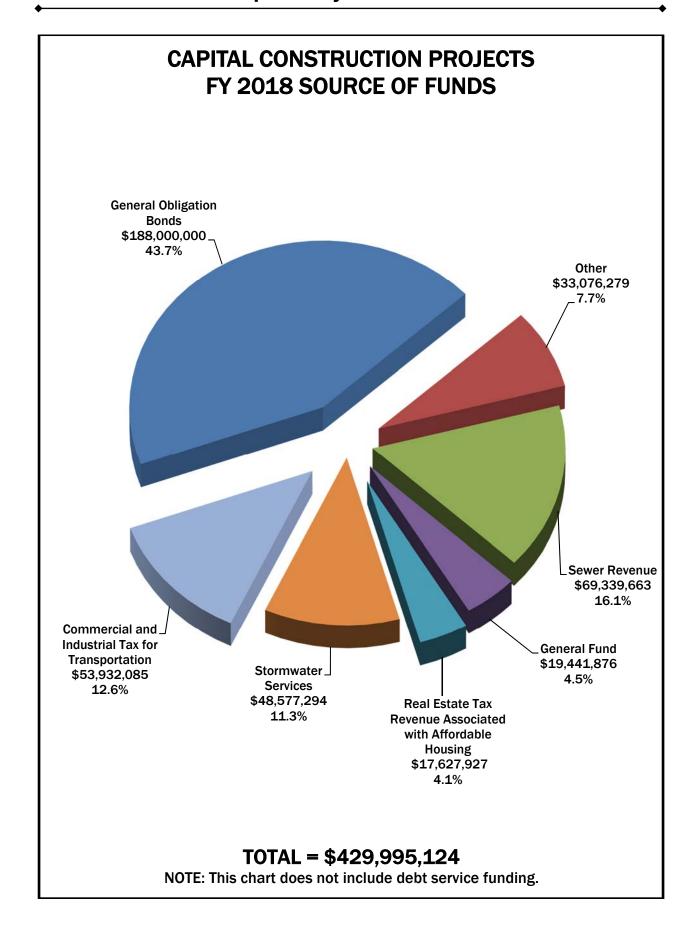
Facility	Fiscal Year Completion	Additional Positions	Estimated Net Operating Costs
FY 2018 New, Renovated, or Expanded Facilities			
Facilities Management Department (FMD) Operational Costs for New Facilities	FY 2018	3/3.0 FTE	\$595,252
Total FY 2018 Costs		3/3.0 FTE	\$595,252

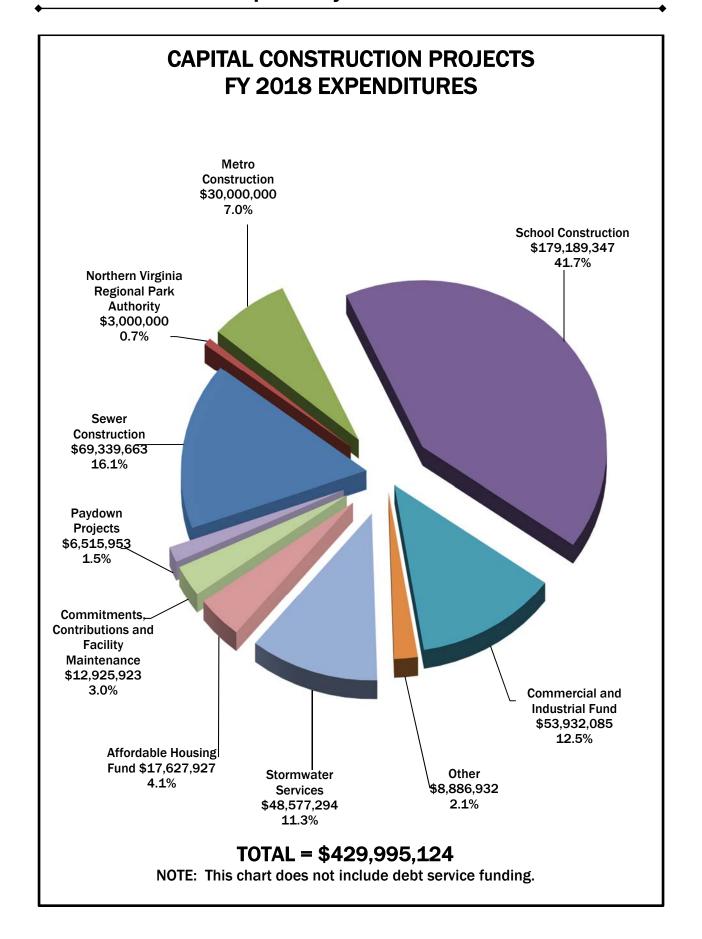
The following facilities are scheduled to open in FY 2018 or later and may require additional staffing and operating costs beginning in FY 2019. Requests for funding will be reviewed as part of the development of the annual budget in the year the facility becomes operational.

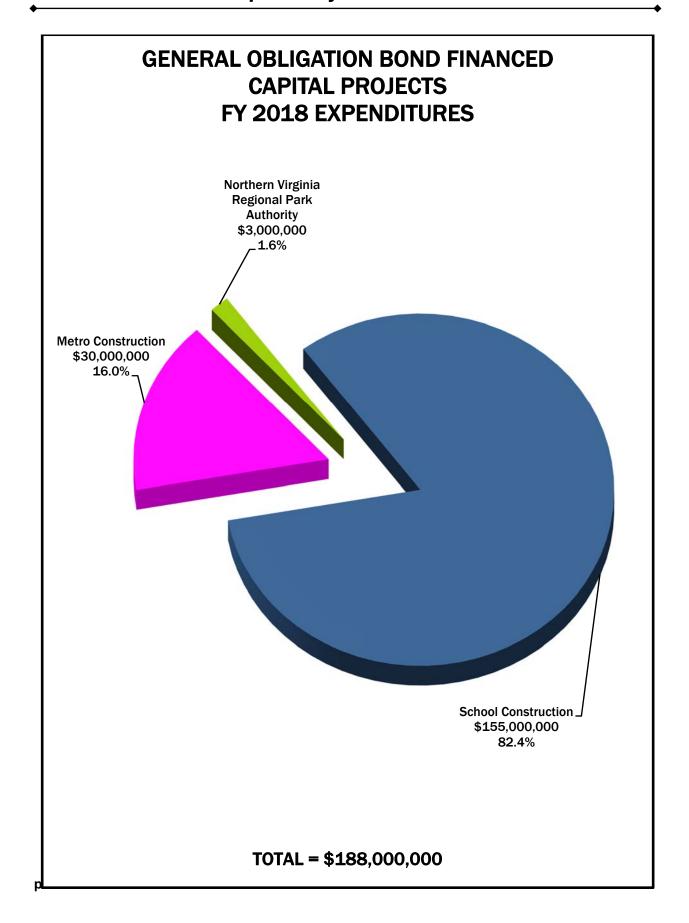
Facility	Fiscal Year Completion
•	•
Reston-Herndon Bus Operations Facility Renovations	FY 2018
West Ox Bus Operations Center Phase II	FY 2018
Tysons Pimmit Regional Library	FY 2018
Herndon Station Parking Garage	FY 2019
Innovation Center Station Parking Garage	FY 2019
John Marshall Community Library	FY 2019
Lewinsville Redevelopment	FY 2019
Burkholder Renovations	FY 2019
Lorton Fire Station	FY 2020
Jefferson Fire Station	FY 2020
Merrifield Fire Station	FY 2020
Springfield Commuter Parking Garage	FY 2021
Reston Fire Station	FY 2021
Penn Daw Fire Station	FY 2021
Woodlawn Fire Station	FY 2021
Events Center	FY 2021
Police Tactical Operations Renovation (Pine Ridge)	FY 2021
South County Police Station/Animal Shelter	FY 2022
Edsall Road Fire Station	FY 2022
Franconia Police Station	FY 2022
Courtroom Renovations Phase III and IV	TBD
Sully Community Center	TBD
Lorton Community Center	TBD
Bailey's Shelter	TBD
Mount Vernon RECenter	TBD
Patrick Henry Shelter	TBD
Embry Rucker Shelter	TBD

#### **Summary of FY 2018 Capital Construction Program**

Major segments of the County's FY 2018 Capital Construction Program are presented in several pie charts that follow to visually demonstrate the funding sources for capital expenditures. Capital construction expenditures by fund are shown in the Summary Schedule of FY 2018 Funded Capital Projects. In addition, a list of all projects funded in FY 2018 and their funding sources has been included in this section. For additional information, see the Capital Project Funds section of the Capital Construction and Other Operating Funds in Volume 2. Detailed information concerning capital projects in Fund S31000, Public School Construction, can be found in the <u>Fairfax County Public School's FY 2018 Approved Budget</u>.







# SUMMARY SCHEDULE OF FY 2018 FUNDED CAPITAL PROJECTS

#### FY 2018 FINANCING

Fund/Title	FY 2016 Actual	FY 2017 Adopted Budget Plan	FY 2017 Revised Budget Plan	FY 2018 Adopted Budget Plan	General Obligation Bonds <sup>1</sup>	General Fund	Federal/ State Aid	Other <sup>2</sup>
SPECIAL REVENUE FUNDS <sup>3</sup>								
40000 County Transit Systems	\$3,756,965	\$4,500,000	\$8,440,069	\$2,300,000	\$0	\$0	\$0	\$2,300,000
40010 County and Regional Transportation Projects	41,339,526	56,218,434	350,140,718	53,932,085	0	0	0	53,932,085
40050 Reston Community Center	198,525	471,300	1,416,367	1,904,000	0	0	0	1,904,000
40060 McLean Community Center	479,822	3,179,749	8,175,053	0	0	0	0	0
40100 Stormwater Services <sup>4</sup>	28,343,475	42,511,612	112,002,976	48,577,294	0	0	0	48,577,294
40140 Refuse Collection and Recycling	11,397	0	801,915	0	0	0	0	0
40150 Refuse Disposal	285,214	0	3,678,624	0	0	0	0	0
40170 I-95 Refuse Disposal	657,346	600,000	7,673,691	2,550,000	0	0	0	2,550,000
40300 Housing Trust Fund	1,114,980	484,155	9,216,480	557,932	0	0	0	557,932
Subtotal	\$76,187,250	\$107,965,250	\$501,545,893	\$109,821,311	\$0	\$0	\$0	\$109,821,311
DEBT SERVICE FUNDS								
20000 Consolidated County and Schools Debt Service Fund	\$315,976,456	\$320,522,544	\$333,285,595	\$341,373,647	\$0	\$334,362,178	\$0	\$7,011,469
Subtotal	\$315,976,456	\$320,522,544	\$333,285,595	\$341,373,647	\$0	\$334,362,178	\$0	\$7,011,469
CAPITAL PROJECTS FUNDS								
30000 Metro Operations and Construction <sup>5</sup>	\$24,100,000	\$30,000,000	\$30,000,000	\$30,000,000	\$30,000,000	\$0	\$0	\$0
30010 County Construction and Contributions	29,088,067	22,308,427	217,503,787	21,690,923	3,000,000	17,115,923	0	1,575,000
30020 Infrastructure Replacement and Upgrades	11,981,221	1,408,449	28,944,458	1,825,953	0	1,825,953	0	0
30030 Library Construction	2,916,631	0	32,003,751	0	0	0	0	0
30040 Contributed Roadway Improvement Fund	603,080	0	44,615,987	0	0	0	0	0
30050 Transportation Improvements	16,527,833	0	137,490,083	0	0	0	0	0
30060 Pedestrian Walkway Improvements	946,210	400,000	4,492,714	500,000	0	500,000	0	0
30070 Public Safety Construction	67,933,886	0	292,355,335	0	0	0	0	0
30080 Commercial Revitalization Program	297,328	0	2,023,766	0	0	0	0	0
30090 Pro Rata Share Drainage Construction	2,577,768	0	1,404,866	0	0	0	0	0
30300 The Penny for Affordable Housing Fund	12,165,986	12,251,850	46,783,387	17,627,927	0	0	0	17,627,927
30310 Housing Assistance Program	19,785	0	6,567,734	0	0	0	0	0
30400 Park Authority Bond Construction	10,987,638	0	139,551,823	0	0	0	0	0
S31000 Public School Construction	192,922,672	175,955,030	569,085,033	179,189,347	155,000,000	0	0	24,189,347
Subtotal	\$373,068,105	\$242,323,756	\$1,552,822,724	\$250,834,150	\$188,000,000	\$19,441,876	\$0	\$43,392,274

## SUMMARY SCHEDULE OF FY 2018 FUNDED CAPITAL PROJECTS

#### **FY 2018 FINANCING**

Fund/Title	FY 2016 Actual	FY 2017 Adopted Budget Plan	FY 2017 Revised Budget Plan	FY 2018 Adopted Budget Plan	General Obligation Bonds <sup>1</sup>	General Fund	Federal/ State Aid	Other <sup>2</sup>
ENTERPRISE FUNDS								
69300 Sewer Construction Improvements	\$86,272,087	\$74,650,000	\$122,430,222	\$69,339,663	\$0	\$0	\$0	\$69,339,663
69310 Sewer Bond Construction	16,030,594	104,993,827	138,772,965	0	0	0	0	0
Subtotal	\$102,302,681	\$179,643,827	\$261,203,187	\$69,339,663	\$0	\$0	\$0	\$69,339,663
TOTAL	\$867,534,492	\$850,455,377	\$2,648,857,399	\$771,368,771	\$188,000,000	\$353,804,054	\$0	\$229,564,717

<sup>&</sup>lt;sup>1</sup>The sale of bonds is presented here for planning purposes. Actual bond sales are based on cash needs in accordance with Board policy.

<sup>&</sup>lt;sup>2</sup> Other financing includes developer contributions and payments, sewer system revenues, transfers from other funds, pro rata deposits, special revenue funds, and fund balances.

<sup>&</sup>lt;sup>3</sup> Reflects the capital construction portion of total expenditures.

<sup>&</sup>lt;sup>4</sup> As part of the FY 2010 Adopted Budget Plan, a service district was created to support stormwater management operating and capital requirements, as authorized by Code of Virginia Ann. sections 15.2-2400.

<sup>&</sup>lt;sup>5</sup> Reflects capital construction portion of Metro expenses net of State Aid.

## FY 2018 FUNDED CAPITAL PROJECTS (For additional information see referenced Fund narratives)

			FY 2018		General	Athletic			Penny for	Commercial and	
			Adopted	General	Obligation	Services	Sewer	Stormwater	Affordable	Industrial	Other
Fund	Project Name	Project	Total	Fund	Bonds	Fee	Revenues	Revenues	Housing	Revenues	Revenues
30000	Metro Operations and Construction Contribution	N/A	\$30,000,000		\$30,000,000						
30010	Athletic Field Maintenance	2G51-002-000	\$2,700,000	\$2,700,000							
30010	Athletic Fields - APRT Amenity Maintenance	2G79-220-000	\$50,000	\$50,000							
30010	Athletic Fields - FCPS Lighting	PR-000082	\$250,000	\$250,000							
30010	Athletic Fields - Park Maintenance at FCPS	2G51-001-000	\$860,338	\$860,338							
30010	Athletic Services Fee - Custodial Support	2G79-219-000	\$275,000			\$275,000					
30010	Athletic Services Fee - Diamond Field Maintenance	2G51-003-000	\$1,000,000	\$750,000		\$250,000					
30010	Athletic Services Fee - Sports Scholarships	2G79-221-000	\$150,000	\$75,000		\$75,000					
30010	Athletic Services Fee - Turf Field Development	PR-000080	\$75,000			\$75,000					
30010	Athletic Services Fee - Turf Field Replacement	PR-000097	\$2,250,000	\$1,450,000		\$800,000					
30010	Developer Defaults	2G25-020-000	\$300,000	\$200,000							\$100,000
30010	EIP - Environmental Initiatives	2G02-001-000	\$179,000	\$179,000							
30010	EIP - Invasive Plant Removal	2G51-032-000	\$200,000	\$200,000							
30010	EIP - Park Lighting and Energy Retrofits	2G51-034-000	\$156,000	\$156,000							
30010	Laurel Hill Development - FMD	2G08-001-000	\$860,000	\$860,000							
30010	Laurel Hill Development - Parks	2G51-008-000	\$400,000	\$400,000							
30010	NOVA Community College Contribution	2G25-013-000	\$2,540,993	\$2,540,993							
30010	NVRPA Contribution	2G06-003-000	\$3,000,000		\$3,000,000						
30010	Parks-Preventative Maintenance And Inspections	2G51-007-000	\$484,000	\$484,000							
30010	Parks - Building/Structures Reinvestment	PR-000109	\$925,000	\$925,000							
30010	Parks - Infrastructure/Amenities Upgrade	PR-000110	\$765,000	\$765,000							
30010	Parks - Ground Maintenance	2G51-006-000	\$476,000	\$476,000							
30010	Payments Of Interest On Bond Deposits	2G06-002-000	\$50,000	\$50,000							
30010	Reinvestment and Repairs to County Roads	2G25-021-000	\$600,000	\$600,000							
30010	Revitalization Maintenance - CRP Areas	2G25-014-000	\$750,000	\$750,000							
30010	Revitalization Maintenance - Tysons	2G25-088-000	\$460,000	\$460,000							
30010	Salona Property Payment	2G06-001-000	\$859,592	\$859,592							
30010	School-Aged Child Care Contribution	2G25-012-000	\$1,000,000	\$1,000,000							
30010	Survey Control Network Monumentation	2G25-019-000	\$75,000	\$75,000							
30020	Roof Repairs and Waterproofing	GF-000010	\$1,825,953	\$1,825,953							
30060	Reinvestment and Repairs to County Walkways	2G25-057-000	\$500,000	\$500,000							
30300	Affordable/Workforce Housing	2H38-072-000	\$297,500						\$297,500		
30300	Bridging Affordability Program	2H38-084-000	\$3,000,000						\$3,000,000		
30300	Crescent Apartments Debt Service	2H38-075-000	\$2,494,372						\$2,494,372		
30300	Housing Blueprint Project	2H38-180-000	\$6,083,398						\$6,083,398		
30300	Wedgewood Debt Service	2H38-081-000	\$5,752,657						\$5,752,657		
40000	Connector Intelligent Transportation System	3G40-003-000	\$1,200,000								\$1,200,000
40000	Farebox Upgrade/Replacement	TF-000039	\$1,100,000								\$1,100,000
40010	Construction Reserve	2G40-001-000	\$22,570,023							\$22,570,023	
40010	Construction Reserve NVTA 30%	2G40-107-000	\$26,668,964							\$26,668,964	
40010	EDA Revenue Bond-Debt Service	2G40-125-000	\$3,000,000							\$3,000,000	
40010	Herndon NVTA 30% Capital	2G40-105-000	\$998,226							\$998,226	
40010	Vienna NVTA 30% Capital	2G40-106-000	\$694,872							\$694,872	

# FY 2018 FUNDED CAPITAL PROJECTS (For additional information see referenced Fund narratives)

			FY 2018 Adopted	General	General Obligation	Athletic Services	Sewer	Stormwater	Penny for Affordable	Commercial and Industrial	Other
Fund	Project Name	Project	Total	Fund	Bonds	Fee	Revenues	Revenues	Housing	Revenues	Revenues
40050	Reston Com. Center-Improvements	CC-000001	\$804,000								\$804,000
40050	Reston Com. Center-Natatorium Mechanical System	CC-000009	\$1,100,000								\$1,100,000
40100	Conveyance System Inspection/Development	2G25-028-000	\$2,000,000					\$2,000,000			
40100	Conveyance System Rehabilitation	SD-000034	\$5,000,000					\$5,000,000			
40100	Dam Safety and Facility Rehabilitation	SD-000033	\$7,500,000					\$7,500,000			
40100	Emergency and Flood Response Projects	SD-000032	\$1,000,000					\$1,000,000			
40100	Flood Prevention-Huntington Area-2012	SD-000037	\$3,000,000					\$3,000,000			
40100	NVSWD Contributory	2G25-007-000	\$527,730					\$527,730			
40100	Occoquan Monitoring Contributory	2G25-008-000	\$123,445					\$123,445			
40100	Stormwater Allocation to Towns	2G25-027-000	\$800,000					\$800,000			
40100	Stormwater Regulatory Program	2G25-006-000	\$6,500,000					\$6,500,000			
40100	Stream and Water Quality Improvements	SD-000031	\$22,126,119					\$22,126,119			
40170	I-95 Landfill Lot B Redesign	SW-000020	\$950,000								\$950,000
40170	I-95 Transfer/Materials Recovery Fac.	SW-000022	\$1,600,000								\$1,600,000
40300	Land/Unit Acquisition	2H38-066-000	\$410,000								\$410,000
40300	Undesignated Housing Trust Fund	2H38-060-000	\$147,932								\$147,932
69300	Alexandria WWTP Upgrades and Rehabilitation	WW-000021	\$18,034,000				\$18,034,000				
69300	Arlington WWTP Rehabilitation	WW-000020	\$1,164,000				\$1,164,000				
69300	Blue Plains WWTP Upgrades and Rehabilitation	WW-000022	\$12,424,000				\$12,424,000				
69300	Collection System Replacement and Rehabilitation	WW-000007	\$5,616,773				\$5,616,773				
69300	Extension and Improvement Projects	WW-00006	\$3,000,000				\$3,000,000				
69300	Force Main Rehabilitation	WW-000008	\$4,487,642				\$4,487,642				
69300	Integrated Sewer Metering	WW-000005	\$750,000				\$750,000				
69300	Large Diameter Pipe Rehabilitation and Replacement	WW-000026	\$2,140,815				\$2,140,815				
69300	Noman Cole Treatment Plant Renewal	WW-000009	\$14,680,739				\$14,680,739				
69300	Pumping Station Rehabilitation	WW-000001	\$5,673,694				\$5,673,694				
69300	Robert P. McMath Facility Improvements	WW-00004	\$112,000				\$112,000				
69300	Sewer Sag Program	WW-000024	\$1,256,000				\$1,256,000				
S31000	Public School Construction	N/A	\$179,189,347		\$155,000,000						\$24,189,347
		Total	\$429,995,124	\$19,441,876	\$188,000,000	\$1,475,000	\$69,339,663	\$48,577,294	\$17,627,927	\$53,932,085	\$31,601,279