

City of Manassas, Virginia FY 2020 Adopted Five-Year Capital Improvement Program



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FY 2020 PROJECT

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July 1, 2019

Mayor Parrish and Members of the City Council:

The Adopted FY 2020 Five-Year Capital Improvement Program (CIP), prepared in conjunction with the City Council priorities and the strategic plan goals, is published and available for public review at www.manassascity.org/budget.

The FY 2020 – FY 2024 CIP totals \$114 million and contains 62 projects for the five-year planning period. Another \$180 million in projects are also shown in the CIP for future funding consideration. Public Safety (\$23 million), Water (\$21 million), and Schools (\$17 million) receive the most focus during this five year planning cycle. Our “AAA” rated bonding capacity remains the primary funding source making up 42% (\$47 million) of CIP funding. Other major funding streams include state and federal intergovernmental funds, school funds allocated to pay-as-you-go capital, and enterprise funds.

This CIP documents the City focus in several major capital planning areas over the next several years. In public safety, construction will begin on Fire and Rescue Station #21 and plans for the new Public Safety Facility will be finalized. These projects, along with work on customer service improvements at City Hall and Utility Billing, will help to deliver better services to the community.

Transportation improvements will continue to focus along the Route 28 corridor with projects along Sudley, Nokesville, Godwin and Centerville roads included in the CIP. In addition to the completion of the Prince William Street improvements, there are plans underway for Grant Street improvements and significant trail and sidewalk improvements to increase bike and pedestrian safety.

Having up-to-date infrastructure for electric, water, sewer, storm, and airport utilities results in major projects to include water plant improvements, replacing the main water transmission line into the City, and other economic development related initiatives. Improvements at the Manassas Regional Airport; conversion of overhead to underground power lines throughout the City; and replacement of sewer mains to stop unwanted inflow and infiltration are highlighted in the CIP.

Discussion will also continue on setting a strategic direction for major capital projects initiatives shown in the next five years to improve public services and amenities. Coordination with the Manassas City Public Schools will be geared towards the redevelopment of Dean Park in coordination with the MCPS plans for the replacement of Dean Elementary and repurposing of the current Police Facility to address the need for MCPS Administrative Offices. We will also seek community input on development plans for the new Annaburg Manor Park, enhancements to E.G. Smith baseball fields, plans for community cultural areas like the Museum, Jennie Dean Memorial Park and provision of a City library.

Many hours have been dedicated to preparing the information contained in this document. The Finance Department continues to take the lead role in preparing and enhancing this document to reflect the needs of City Departments and the strategic priorities of the City Council. I thank each of them for this work and look forward to working with Council and the community to bring these plans to fruition.

Respectfully,

William Patrick Pate
City Manager

CAPITAL IMPROVEMENT PROGRAM CALENDAR

Developing the CIP

Friday, November 16, 2018

Mon.-Wed., December 10-13, 2018

Wednesday, January 23, 2019

Friday, February 08, 2019

Department Recommended CIP Due

City Manager / Department Meetings

Planning Commission Review

Planning Commission Approval

City Council Work Sessions (Budget & CIP)

Monday, March 11, 2019

Tuesday, March 12, 2019

Wednesday, March 13, 2019

Wednesday, March 20, 2019

Wednesday, March 27, 2019

Wednesday, April 03, 2019

Monday, April 15, 2019

Monday, April 29, 2019

Wednesday, May 01, 2019

Monday, May 06, 2019

Monday, May 13, 2019

Presentation of Proposed Budget & CIP

Budget & CIP Worksession

Budget & CIP Worksession

Budget & CIP Worksession

Budget & CIP Worksession

Schools Budget & CIP Worksession

Budget & CIP Worksession

Public Hearing on Proposed Budget & CIP

Budget & CIP Worksession

Budget & CIP Worksession

Adoption of CIP by Resolution

| |
|----------------------------------|
| Staff Preparation |
| Planning Commission |
| Presentations or Public Hearings |
| City Council Worksessions |
| Adoption |

| DECEMBER 2018 | | | | | | | JANUARY 2019 | | | | | | |
|---------------|-----|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat | Sun | Mon | Tue | Wed | Thu | Fri | Sat |
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| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 | 27 | 28 | 29 | 30 | 31 | | |
| 30 | 31 | | | | | | | | | | | | |

| FEBRUARY 2019 | | | | | | | MARCH 2019 | | | | | | |
|---------------|-----|-----|-----|-----|-----|-----|------------|-----|-----|-----|-----|-----|-----|
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| 3 | 4 | 5 | 6 | 7 | 8 | 9 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | | | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| | | | | | | | 31 | | | | | | |

| APRIL 2019 | | | | | | | MAY 2019 | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|----------|-----|-----|-----|-----|-----|-----|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat | Sun | Mon | Tue | Wed | Thu | Fri | Sat |
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| 7 | 8 | 9 | 10 | 11 | 12 | 13 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 28 | 29 | 30 | | | | | 26 | 27 | 28 | 29 | 30 | 31 | |

CAPITAL IMPROVEMENT PROGRAM OVERVIEW

INTRODUCTION

The **Capital Improvement Program (CIP)** is a multi-year plan for major capital expenditures, such as the construction, reconstruction, renovation, or replacement of a public building or facility or surveys and studies leading to such physical improvements mentioned above. The adoption of the CIP by the City Council is an indication of its support of both the capital projects that the City intends to pursue and a plan for the anticipated levels of financing needed to fund these capital projects over the five-year period. The adoption of the CIP is neither a firm commitment to a particular project nor a limitation to a particular cost. It is a basic tool for prioritizing and scheduling anticipated projects and financing, a key element in planning and managing future debt service requirements.

A capital improvement project should have a cost greater than \$100,000 and a useful life of at least 10 years. Projects that do not meet the \$100,000 and 10-year useful life criteria are considered to be maintenance capital projects, a summary of which is provided at the end of each CIP program area. Capital projects generally require significant engineering design and construction, whereas maintenance capital projects (like road paving and sidewalk replacement) require routine upkeep every few years. These projects are not considered to be part of the Five-Year Capital Improvement Program.

The cost estimates in the CIP are intended to capture the entire estimated project cost, including as applicable, land acquisition, design, negotiated agreements, and construction. The total request for each project is evaluated and, based upon funding, is prioritized to meet the needs of the City. The CIP is updated annually and is subject to change with each update.

CAPITAL IMPROVEMENT PLANNING & POLICIES

The capital improvement program is the result of a detailed planning process. The purpose is to address the City's immediate and long-term capital needs in a conscious effort to best provide services and facilities to the citizens of Manassas. The process begins in October when departments begin their work on the Department Recommended Five-Year CIP. In December, the City Manager meets with department staff to discuss their recommended CIP. The Department Recommended CIP is presented to the Planning Commission in January who provides their recommendation to the City Manager in February. The purpose of the Planning Commission is to ensure that all projects are in conformance with the City's Comprehensive Plan. During this time, the City Manager works closely with the Budget Office to evaluate the feasibility of funding sources and the impact projects will have on the operating budget. In March, the City Manager presents the Proposed Five-Year CIP to the City Council along with the Proposed Budget. City Council then holds several Budget and CIP work sessions as well as a public hearing during the months of March and April and adopts the CIP along with the budget in May.

The following tasks related to the capital improvement program are outlined in the City's Financial Policies (Policy Statement P-2016-01):

- The City will prioritize all capital improvements in accordance with an adopted capital improvement program.
- The City will develop a five-year plan for capital improvements and review the plan annually.
- The City will coordinate the development of the capital improvement program along with the development of the operating budget.
- The City will use intergovernmental assistance to finance only those capital improvements that are consistent with the capital improvement plan and City priorities.
- The City will maintain all its assets at a level adequate to protect the City's capital investment and to minimize future maintenance and replacement costs.
- The City will identify the estimated costs and potential funding sources for each capital project proposal before it is submitted for approval.
- The City will attempt to determine the least costly and most flexible financing method for all capital projects.

CAPITAL IMPROVEMENT PROGRAM OVERVIEW

PLANNING COMMISSION

The projects contained in the CIP support the goals and objectives outlined in the City's Comprehensive Plan and are intended to establish the long-term spending priorities identified by the City Council. The Planning Commission votes in January or February to recommend approval of the CIP for inclusion in the Operating Budget and Five-Year Capital Improvement Program.

CITY COUNCIL ADOPTION

The City Council adopts the Five-Year Capital Improvement Program in May. The City Council Resolution of adoption is included in the Supplemental Section of this book as well as the Resolution of approval from the City of Manassas Planning Commission. The Manassas City School Board adopts their CIP in March.

Every July 1st, the first year of the CIP is budgeted and appropriated. Once a project budget is established, the budget remains for the life of the project. From time to time, project budgets are amended in accordance to the City's Financial Policies – Policy Statement P-2016-01. When projects are completed, staff closes out the project and transfers remaining balances to other projects as needed. Any funds that are not needed at the time of project closing lapse into fund balance and are available for re-appropriation in the future.

DEBT PLANNING

To improve its bond rating, the City considers the following guidelines in deciding how much City general obligation debt may be issued for the capital improvement program (City's Financial Policies – Policy Statement P-2016-01):

- When the City finances capital improvements by issuing bonds or entering into capital leases, it will repay the debt within a period not to exceed the expected useful life of the project.
- Net debt (any and all debt that is tax supported) as a percentage of the estimated market value of taxable real property shall not exceed 3%.
- Debt service expenditures as a percent of total governmental fund expenditures shall not exceed 15.0%.
- Payout of aggregate outstanding tax-supported debt principal shall be no less than 50% repair in 10 years.

Pursuant to the Constitution of Virginia (the Constitution) and the City Charter, the City is authorized to issue bonds secured by a pledge of its full faith and credit and unlimited taxing power. There is no requirement in the Constitution, the Virginia Code, or the City Charter that the issuance of general obligation bonds be subject to the approval of voters of the City at referendum. The issuance of general obligation bonds is subject to a constitutional limitation of ten percent (10%) of the assessed value of taxable real property.

IMPACT OF THE CAPITAL IMPROVEMENT PROJECT ON THE OPERATING BUDGET

Debt Service

The annual payment of principal and interest on general obligations bonds used to finance roads, schools, and other major projects is included in the operating budget as a required expenditure. The FY 2020 tax-supported debt service is \$8,737,270 (City General Fund, City Fire Rescue Fund, and Schools). Additionally, FY 2020 debt service supported by the enterprise funds (Sewer, Water, Electric, Stormwater, and Airport) is \$3,433,100.

CAPITAL IMPROVEMENT PROGRAM OVERVIEW

Current Revenue and PAYGO

Certain CIP projects are funded directly with City current revenues in order to avoid the costs of borrowing. These amounts are included in the operating budget as specific transfers to capital project funds. The PAYGO funding is an additional amount included in the operating budget as a direct bond offset to reduce the amount of borrowing required for project financing. The FY 2020 PAYGO projects represent a total of \$11,286,000 (General Fund, Enterprise Funds, and Schools).

Other Operating Impacts

The construction of government buildings and facilities usually results in new annual costs for maintenance, utilities, and additional staffing required for facility management and operation. There could also be anticipated savings as a result of a project being completed, such as decreased maintenance costs as a result of a new facility. The project pages published in this document display the estimated operating impacts for individual projects where applicable.

PAYGO FINANCING

In an effort to minimize the impact of issuing debt, the City maintains a commitment to an annual PAYGO capital financing program.

General Fund PAYGO: General Fund PAYGO funding for FY 2020 is \$420,000 for capital projects and \$450,000 for maintenance capital projects. These projects include:

Capital Projects

- Public Works/Utilities Facility - \$50,000
- Annaburg Manor - \$35,000
- Jennie Dean Memorial - \$175,000
- Manassas Customer Service Center - \$160,000

Maintenance Capital Projects

- Park Improvements - \$150,000
- Supplemental Street Paving - \$300,000

Sewer Fund PAYGO: Sewer Fund PAYGO funding for FY 2020 is \$1,360,000 for capital projects which includes:

Capital Projects

- Public Works/Utilities Facility - \$50,000
- Grant Avenue (Lee to Wellington) - \$150,000
- Upper Flat Branch Interceptor - \$1,000,000
- Buckner Road Sewer Main Replace - \$50,000
- Ellicott Lane Sewer Main Replace - \$100,000
- Sewer Main Replace - \$10,000

Maintenance Capital Projects

- N/A

Water Fund PAYGO: Water Fund PAYGO funding for FY 2020 is \$2,840,000 for capital projects which includes:

Capital Projects

- Grant Avenue (Lee to Wellington) - \$895,000
- Upper Flat Branch Interceptor - \$210,000
- Buckner Road Sewer Main Replace - \$10,000
- 24" Transmission Main - \$1,000,000
- Main Replacement/Looping - \$200,000
- Interconnecting Meter Vaults - \$50,000
- Water Plant Improvements - \$475,000

Maintenance Capital Projects

- N/A

CAPITAL IMPROVEMENT PROGRAM OVERVIEW

Electric Fund PAYGO: Electric Fund PAYGO funding for FY 2020 is \$2,640,000 for capital projects and \$110,000 for maintenance capital projects. These projects include:

Capital Projects

- Customer Service Center - \$90,000
- Grant Avenue (Lee to Wellington) - \$400,000
- Sidewalk & Bicycle Infill - \$200,000
- Underground Cable - \$400,000
- Alternative Generation Initiatives - \$300,000
- Place Overhead Lines Underground - \$450,000
- LED Streetlight Replacement - \$100,000
- Manassas Airport Distribution - \$175,000
- Point of Woods Substation - \$300,000
- Substation Capacity and Reliability - \$225,000

Maintenance Capital Projects

- Circuit Automation - \$110,000

Stormwater Fund PAYGO: Stormwater Fund PAYGO funding for FY 2020 is \$10,000 for capital projects and \$100,000 for maintenance projects. These projects include:

Capital Projects

- Cockrell Branch SWM Pond Restoration/Dredging - \$10,000

Maintenance Capital Projects

- Storm/Drainage Maint Program - \$35,000
- Floodplain Mapping Updates - \$65,000

Airport Fund PAYGO: Airport Fund PAYGO funding for FY 2020 is \$312,000 for capital projects and \$44,000 for maintenance capital projects. These projects include:

Capital Projects

- Runway 16R/34L Lighting - \$8,000
- Taxiway A Rehab - \$5,000
- Runway 16/R34L Rehab - \$60,000
- Terminal Roof Replacement - \$30,000
- Install Security Fiber Line - \$9,000
- West Corporate Site/Drainage - \$200,000

Maintenance Capital Projects

- Airport Paving (Outside Airfield) - \$24,000
- Airport Paving Program - \$20,000

School Fund PAYGO: School Fund PAYGO funding for FY 2020 is \$3,000,000 for capital projects. The school does not classify projects as maintenance capital projects. The School Fund PAYGO projects include:

Capital Projects

- Division Wide Tech Upgrades - \$175,000
- District Wide Bus Replacement - \$500,000
- District Wide Bus Additions - \$125,000
- Round HVAC Replacement - \$2,200,000

CAPITAL IMPROVEMENT PROGRAM OVERVIEW

The capital budget summary shown below of \$22,283,000 is the first year (FY 2020) of the five-year capital improvement program. Below is a breakdown of expenditures by program and funding by source for the first year.

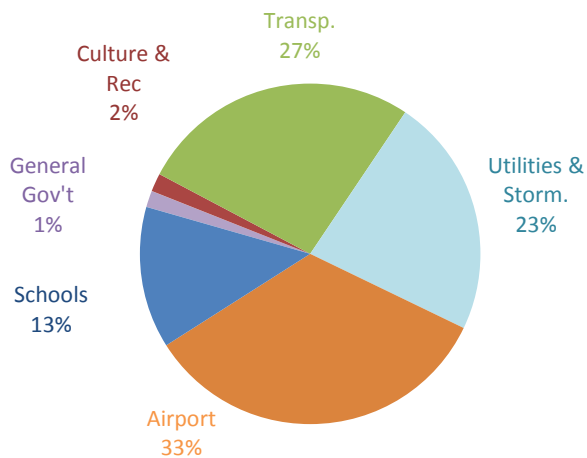
Expenditure by Program (FY 2020)

| | |
|----------------------|----------------------|
| General Government | 350,000 |
| Culture & Recreation | 385,000 |
| Public Safety | - |
| Transportation | 5,945,000 |
| Sewer | 1,380,000 |
| Water | 1,725,000 |
| Electric | 1,950,000 |
| Stormwater | 10,000 |
| Airport | 7,538,000 |
| Schools | 3,000,000 |
| Total FY 2020 | \$ 22,283,000 |

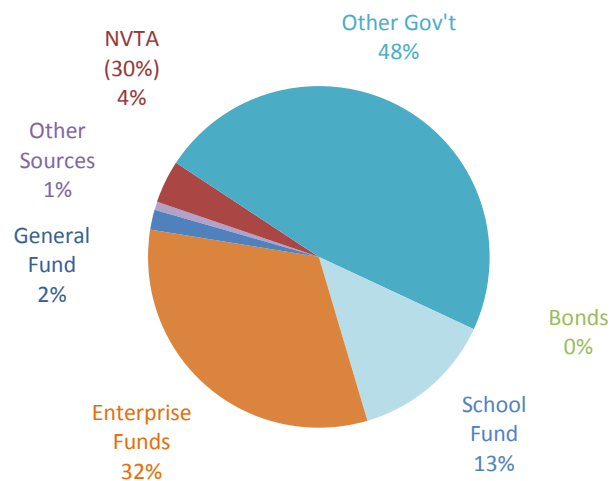
Funding by Source (FY 2020)

| | |
|----------------------|----------------------|
| General Fund | 420,000 |
| Sewer Fund | 1,360,000 |
| Water Fund | 2,840,000 |
| Electric Fund | 2,640,000 |
| Stormwater Fund | 10,000 |
| Airport Fund | 312,000 |
| School Funds | 3,000,000 |
| Bonds | - |
| State & Federal | 10,626,000 |
| NVTA 30% & Other | 1,075,000 |
| Total FY 2020 | \$ 22,283,000 |

FY 2020 Five-Year CIP
First Year - Projects by Program



FY 2020 Five-Year CIP
First Year - Projects by Funding Source



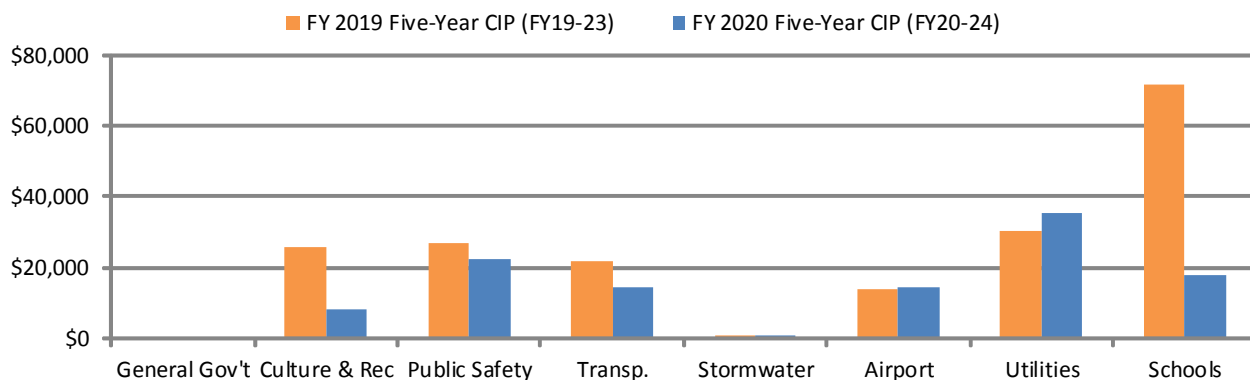
SUMMARY OF CAPITAL PROJECTS BY PROGRAM

(\$ in Thousands)

| | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year Total |
|----------------------|----------------|---------------|---------------|---------------|---------------|--------------|----------------|------------------|-----------------|
| General Government | 2,519 | 350 | - | - | - | - | - | 2,869 | 350 |
| Culture & Recreation | 2,801 | 385 | 8,000 | - | - | - | 24,200 | 35,386 | 8,385 |
| Public Safety | 40,851 | - | 22,500 | - | - | - | 17,500 | 80,851 | 22,500 |
| Transportation | 45,301 | 5,945 | 6,067 | 550 | 1,300 | 550 | 16,620 | 76,333 | 14,412 |
| Sewer | 1,855 | 1,380 | 1,395 | 1,245 | 450 | 450 | - | 6,775 | 4,920 |
| Water | 34,970 | 1,725 | 13,595 | 1,415 | 3,300 | 400 | 6,900 | 62,305 | 20,435 |
| Electric | 6,670 | 1,950 | 2,125 | 1,825 | 2,280 | 2,100 | 2,650 | 19,600 | 10,280 |
| Stormwater | 237 | 10 | 449 | 380 | - | - | 19,436 | 20,512 | 839 |
| Airport | 317 | 7,538 | 2,850 | 800 | 3,000 | - | 16,600 | 31,105 | 14,188 |
| Schools | - | 3,000 | 3,557 | 5,190 | 3,000 | 3,000 | 76,677 | 94,424 | 17,747 |
| Total Cost | 135,521 | 22,283 | 60,538 | 11,405 | 13,330 | 6,500 | 180,583 | 430,160 | 114,056 |

Funding Sources:

| | | | | | | | | | |
|----------------------|----------------|---------------|---------------|---------------|---------------|--------------|----------------|----------------|----------------|
| General Fund | 5,520 | 420 | - | - | - | - | - | 5,940 | 420 |
| Sewer Fund | 3,552 | 1,360 | 1,350 | 1,200 | 450 | 450 | 1,040 | 9,402 | 4,810 |
| Water Fund | 16,318 | 2,840 | 1,815 | 1,460 | 1,300 | 400 | 6,920 | 31,053 | 7,815 |
| Electric Fund | 9,886 | 2,640 | 2,575 | 1,825 | 2,280 | 2,100 | 3,700 | 25,006 | 11,420 |
| Stormwater Fund | 137 | 10 | 449 | 380 | - | - | 396 | 1,372 | 839 |
| Airport Fund | 30 | 312 | 111 | 106 | 60 | - | 742 | 1,361 | 589 |
| School Fund | 33 | 3,000 | 3,557 | 3,049 | 3,000 | 3,000 | 450 | 16,089 | 15,606 |
| Bonds | 65,738 | - | 42,200 | 2,141 | 2,000 | - | 136,577 | 248,656 | 46,341 |
| State | 14,542 | 1,293 | 444 | 424 | 390 | - | 1,533 | 18,626 | 2,551 |
| Federal | 5,655 | 9,333 | 5,987 | 270 | 3,300 | - | 18,125 | 42,670 | 18,890 |
| NVTA | 11,012 | 900 | 1,050 | 550 | 550 | 550 | 3,100 | 17,712 | 3,600 |
| Other Sources | 3,098 | 175 | 1,000 | - | - | - | 8,000 | 12,273 | 1,175 |
| Total Funding | 135,521 | 22,283 | 60,538 | 11,405 | 13,330 | 6,500 | 180,583 | 430,160 | 114,056 |



CAPITAL PROJECT LISTING

(\$ in Thousands)

| | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|---------------------------------|----------------|------------|---------------|----------|----------|----------|---------------|------------------|---------------|
| General Government | | | | | | | | | |
| City Hall Improvements/ | 1,159 | - | - | - | - | - | - | 1,159 | - |
| Public Works & Utilities | 1,360 | 100 | - | - | - | - | - | 1,460 | 100 |
| Manassas Customer Ser | - | 250 | - | - | - | - | - | 250 | 250 |
| Program Total | 2,519 | 350 | - | - | - | - | - | 2,869 | 350 |
| Culture & Recreation | | | | | | | | | |
| Manassas Museum | 260 | - | 3,500 | - | - | - | - | 3,760 | 3,500 |
| Dean Park | 264 | - | 2,900 | - | - | - | - | 3,164 | 2,900 |
| Stonewall Park/Pool | 601 | - | - | - | - | - | 3,000 | 3,601 | - |
| E.G. Smith Baseball Co | 376 | - | 1,600 | - | - | - | 6,000 | 7,976 | 1,600 |
| Annaburg Manor | 1,300 | 35 | - | - | - | - | 5,000 | 6,335 | 35 |
| Jennie Dean Memorial | - | 350 | - | - | - | - | - | 350 | 350 |
| Manassas Library | - | - | - | - | - | - | 10,200 | 10,200 | - |
| Program Total | 2,801 | 385 | 8,000 | - | - | - | 24,200 | 35,386 | 8,385 |
| Public Safety | | | | | | | | | |
| Public Safety Facility | 26,685 | - | 22,500 | - | - | - | - | 49,185 | 22,500 |
| Fire/Rescue Station 21 | 14,166 | - | - | - | - | - | - | 14,166 | - |
| Fire/Rescue Station 1 | - | - | - | - | - | - | 17,500 | 17,500 | - |
| Program Total | 40,851 | - | 22,500 | - | - | - | 17,500 | 80,851 | 22,500 |
| Transportation | | | | | | | | | |
| Sudley Road Third Lane | 7,400 | - | - | - | - | - | - | 7,400 | - |
| Land Acquisition (Downt | - | - | - | - | - | - | 1,200 | 1,200 | - |
| Prince William Street (Gr | 9,740 | - | - | - | - | - | - | 9,740 | - |
| Grant Avenue (Lee Aven | 6,496 | 1,445 | 250 | - | - | - | - | 8,191 | 1,695 |
| Dean Drive Extended (E | 3,654 | - | - | - | - | - | - | 3,654 | - |
| Dean Drive (Animal Shel | - | - | - | - | - | - | 6,920 | 6,920 | - |
| Route 28 / Nokesville Ro | 11,681 | - | - | - | - | - | - | 11,681 | - |
| Liberia Avenue Improve | - | - | 500 | - | - | - | - | 500 | 500 |
| Stonewall Park Trail Ext | - | - | - | - | - | - | 2,000 | 2,000 | - |
| Sidewalk & Bicycle Infill I | 1,732 | 700 | 500 | 300 | 300 | 300 | - | 3,832 | 2,100 |
| Godwin Drive Bike Trail | 1,653 | - | - | - | - | - | - | 1,653 | - |
| Commercial Corridor Str | 250 | 250 | 1,625 | 250 | 250 | 250 | - | 2,875 | 2,625 |
| Centreville Road Improv | 300 | 150 | - | - | - | - | - | 450 | 150 |
| Fairview Avenue / Tudor | 1,130 | - | - | - | - | - | - | 1,130 | - |
| North Side Downtown P | - | - | - | - | - | - | 6,500 | 6,500 | - |

CAPITAL PROJECT LISTING

(\$ in Thousands)

| | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|---------------------------|----------------|--------------|---------------|--------------|--------------|--------------|---------------|------------------|---------------|
| Traffic Signal Span Wire | - | - | - | - | 750 | - | - | 750 | 750 |
| Wakeman Drive Bike La | 500 | - | - | - | - | - | - | 500 | - |
| Gateway Boulevard Side | 340 | - | - | - | - | - | - | 340 | - |
| Roundabout Sudley/Cen | 425 | 3,400 | - | - | - | - | - | 3,825 | 3,400 |
| Mathis Avenue Improve | - | - | 3,192 | - | - | - | - | 3,192 | 3,192 |
| Program Total | 45,301 | 5,945 | 6,067 | 550 | 1,300 | 550 | 16,620 | 76,333 | 14,412 |
| Sewer | | | | | | | | | |
| Upper Flat Branch Interc | 1,770 | 1,210 | 435 | - | - | - | - | 3,415 | 1,645 |
| Buckner Road Sewer Ma | - | 60 | 520 | 645 | - | - | - | 1,225 | 1,225 |
| Ellicott Lane Sewer Main | 85 | 100 | 400 | - | - | - | - | 585 | 500 |
| Sewer Main Replaceme | - | 10 | 40 | 600 | 450 | 450 | - | 1,550 | 1,550 |
| Program Total | 1,855 | 1,380 | 1,395 | 1,245 | 450 | 450 | - | 6,775 | 4,920 |
| Water | | | | | | | | | |
| 24" Transmission Main | 16,761 | 1,000 | 12,900 | 900 | 2,900 | - | 2,800 | 37,261 | 17,700 |
| Finished Water Capacity | 3,000 | - | - | - | - | - | - | 3,000 | - |
| Main Replacement / Loo | 2,534 | 200 | 495 | 515 | 400 | 400 | 2,900 | 7,444 | 2,010 |
| Clear-Well Addition and | 2,400 | - | - | - | - | - | - | 2,400 | - |
| Nokesville Road Upgrad | - | - | - | - | - | - | 1,000 | 1,000 | - |
| Interconnecting Meter V | 30 | 50 | - | - | - | - | 200 | 280 | 50 |
| Water Plant Improvemen | 245 | 475 | 200 | - | - | - | - | 920 | 675 |
| Dean Storage Tank | 10,000 | - | - | - | - | - | - | 10,000 | - |
| Program Total | 34,970 | 1,725 | 13,595 | 1,415 | 3,300 | 400 | 6,900 | 62,305 | 20,435 |
| Electric | | | | | | | | | |
| Underground Cable and | 3,340 | 400 | 400 | 400 | 400 | 400 | - | 5,340 | 2,000 |
| Alternative Generation In | 1,450 | 300 | 300 | 300 | 300 | 300 | - | 2,950 | 1,500 |
| New Fiber Optic Loop/Ri | 355 | - | - | - | - | - | - | 355 | - |
| Place Overhead Lines U | 1,275 | 450 | 500 | 400 | 580 | 500 | - | 3,705 | 2,430 |
| LED Streetlight Replace | 250 | 100 | 100 | 100 | 100 | 100 | - | 750 | 500 |
| Manassas Airport Distrib | - | 175 | 300 | 300 | 450 | 450 | - | 1,675 | 1,675 |
| Point of Woods Substati | - | 300 | 200 | - | - | - | - | 500 | 500 |
| Substation Capacity and | - | 225 | 325 | 325 | 450 | 350 | 2,650 | 4,325 | 1,675 |
| Program Total | 6,670 | 1,950 | 2,125 | 1,825 | 2,280 | 2,100 | 2,650 | 19,600 | 10,280 |
| Stormwater | | | | | | | | | |
| Sills Pond | - | - | - | - | - | - | 396 | 396 | - |
| Peabody Street / Early S | - | - | 25 | 380 | - | - | - | 405 | 405 |

CAPITAL PROJECT LISTING

(\$ in Thousands)

| | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|-----------------------------|----------------|--------------|--------------|------------|--------------|----------|---------------|------------------|---------------|
| Cockrell Branch SWM P | - | 10 | 424 | - | - | - | - | 434 | 434 |
| Jackson Avenue Draina | - | - | - | - | - | - | 1,940 | 1,940 | - |
| Hazel Drive Channel Imp | 35 | - | - | - | - | - | - | 35 | - |
| School Street Drainage I | 202 | - | - | - | - | - | - | 202 | - |
| Winter's Branch Stream | - | - | - | - | - | - | 8,250 | 8,250 | - |
| Flat Branch Stream Rest | - | - | - | - | - | - | 4,100 | 4,100 | - |
| Sumner Lake Stream Re | - | - | - | - | - | - | 4,750 | 4,750 | - |
| Program Total | 237 | 10 | 449 | 380 | - | - | 19,436 | 20,512 | 839 |
| Airport | | | | | | | | | |
| Air Traffic Control Tower | - | - | - | - | - | - | 7,600 | 7,600 | - |
| Upgrade Runway 16R/3 | - | 400 | - | - | - | - | - | 400 | 400 |
| Realignment of Wakema | - | - | - | - | - | - | 3,850 | 3,850 | - |
| Land Acquisition Southw | - | - | - | - | - | - | 3,000 | 3,000 | - |
| Fuel Farm Update | - | - | - | - | - | - | 550 | 550 | - |
| Taxiway A Rehabilitation | - | 250 | 2,250 | - | - | - | - | 2,500 | 2,500 |
| Runway 16R/34L Rehabi | - | 3,000 | - | - | - | - | - | 3,000 | 3,000 |
| North East Apron Expan | - | - | - | - | - | - | 1,300 | 1,300 | - |
| Rehabilitate and Widen | - | - | - | 300 | 3,000 | - | - | 3,300 | 3,300 |
| Terminal Parking Lot Ex | - | - | 50 | 500 | - | - | - | 550 | 550 |
| Terminal Building Roof | - | 100 | - | - | - | - | - | 100 | 100 |
| Upgrade Taxiway A Ligh | - | - | 300 | - | - | - | - | 300 | 300 |
| Installation of Security Fi | 24 | 140 | - | - | - | - | - | 164 | 140 |
| Installation of Backup G | - | - | 250 | - | - | - | 300 | 550 | 250 |
| Taxiway G and Taxilane | 293 | 2,648 | - | - | - | - | - | 2,941 | 2,648 |
| West Corporate Develop | - | 1,000 | - | - | - | - | - | 1,000 | 1,000 |
| Program Total | 317 | 7,538 | 2,850 | 800 | 3,000 | - | 16,600 | 31,105 | 14,188 |
| Schools | | | | | | | | | |
| District Wide - Classroo | - | - | 200 | 250 | 250 | - | - | 700 | 700 |
| District Wide - Technolo | - | 175 | 250 | 200 | 200 | 200 | - | 1,025 | 1,025 |
| District Wide - School B | - | 500 | 486 | 500 | 500 | 500 | - | 2,486 | 2,486 |
| District Wide - School B | - | 125 | 121 | - | 125 | 125 | - | 496 | 496 |
| District Wide - Restroom | - | - | - | - | 100 | - | 300 | 400 | 100 |
| Central Office - Replace | - | - | 500 | 4,240 | 1,594 | - | - | 6,334 | 6,334 |
| Osborn - Parking Lot I | - | - | - | - | - | 250 | - | 250 | 250 |
| Osborn - Hallway Floor | - | - | - | - | - | 500 | - | 500 | 500 |

CAPITAL PROJECT LISTING

(\$ in Thousands)

| | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|-------------------------|----------------|---------------|---------------|---------------|---------------|--------------|----------------|------------------|----------------|
| Osborn - Cooling Towe | - | - | - | - | - | 1,000 | - | 1,000 | 1,000 |
| Osborn - Restroom Ref | - | - | - | - | 44 | 50 | - | 94 | 94 |
| Metz - Classroom Floori | - | - | - | - | - | 275 | - | 275 | 275 |
| Mayfield - Roof Replace | - | - | 2,000 | - | - | - | - | 2,000 | 2,000 |
| Haydon - Parking Lot Im | - | - | - | - | - | 100 | 150 | 250 | 100 |
| Round - Phased BAS/H | - | 2,200 | - | - | - | - | - | 2,200 | 2,200 |
| Weems - Parking Lot Im | - | - | - | - | 40 | - | - | 40 | 40 |
| Weems - Partial Mainten | - | - | - | - | 84 | - | - | 84 | 84 |
| Weems - Interior Paint | - | - | - | - | 63 | - | - | 63 | 63 |
| New Dean - Building Re | - | - | - | - | - | - | 76,227 | 76,227 | - |
| Program Total | - | 3,000 | 3,557 | 5,190 | 3,000 | 3,000 | 76,677 | 94,424 | 17,747 |
| CIP Total | 135,521 | 22,283 | 60,538 | 11,405 | 13,330 | 6,500 | 180,583 | 430,160 | 114,056 |

CAPITAL IMPROVEMENT PROGRAM FUNDING

SOURCE/DESCRIPTION

General Fund (PAYGO)

The General Fund is funded by revenues as general property taxes, other local taxes, permits, fees, licenses, fines and forfeitures, charges for service, and aid from the state and federal governments. The contribution to the five-year CIP for the General Fund is approved as part of the General Fund operating budget. Occasionally, reserves that have been set aside in the General Fund for capital are used to fund projects.

Sewer Fund, Water Fund, Electric Fund, Stormwater Fund, and Airport Fund (PAYGO)

These funds are all enterprise funds. Enterprise funds account for operations that are financed and operated in a manner similar to private business enterprises, where the intent is that the costs of providing goods or services be financed or recovered primarily through user charges.

School Fund (PAYGO)

The Manassas City Public Schools (MCPS) is a component unit of the City of Manassas. The Schools fund their own capital program.

Bonds

Bonds are a type of security sold to finance capital improvement projects to spread the construction cost of a facility over time, such that those who benefit from it over time also assist in funding it. For any projects to be funded with bonds, debt service is included as an operating cost. All of the City's debt is general obligation bonds.

State and Federal

Funds from these sources are from the Commonwealth and/or the Federal government. Various agencies are responsible for funding in the different program areas. For example, the Federal Aviation Administration is generally the federal funding for Airport projects.

Northern Virginia Transportation Authority

The Northern Virginia Transportation Authority collects a percentage of sales tax, transient occupancy tax, and recordation tax on behalf of the jurisdictions in Northern Virginia for the sole purpose of transportation improvements. Of these collections, 30% of the revenue is returned to the locality on a monthly basis. In order to receive the full 30% funds, jurisdictions must either assess a 12.5 cent Commercial & Industrial tax or raise an equivalent amount of money and dedicate said funds to eligible transportation improvements.

Other Sources

Other funding sources may include: the use of proffers/cash in lieu, contributions from other governments, donations, proceeds from land sales or use of funds from closed projects.

GENERAL FUND FUNDING BY CAPITAL PROJECT

(\$ in Thousands)

| | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|---------------------------------|----------------|------------|----------|----------|----------|----------|----------|------------------|---------------|
| General Government | | | | | | | | | |
| City Hall Improvements/ | 379 | - | - | - | - | - | - | 379 | - |
| Public Works & Utilities | 230 | 50 | - | - | - | - | - | 280 | 50 |
| Manassas Customer Ser | - | 160 | - | - | - | - | - | 160 | 160 |
| Program Total | 609 | 210 | - | - | - | - | - | 819 | 210 |
| Culture & Recreation | | | | | | | | | |
| Manassas Museum | 260 | - | - | - | - | - | - | 260 | - |
| Dean Park | 264 | - | - | - | - | - | - | 264 | - |
| Stonewall Park/Pool | 585 | - | - | - | - | - | - | 585 | - |
| E.G. Smith Baseball Co | 255 | - | - | - | - | - | - | 255 | - |
| Annaburg Manor | - | 35 | - | - | - | - | - | 35 | 35 |
| Jennie Dean Memorial | - | 175 | - | - | - | - | - | 175 | 175 |
| Program Total | 1,364 | 210 | - | - | - | - | - | 1,574 | 210 |
| Public Safety | | | | | | | | | |
| Public Safety Facility | 165 | - | - | - | - | - | - | 165 | - |
| Fire/Rescue Station 21 | 2,566 | - | - | - | - | - | - | 2,566 | - |
| Program Total | 2,731 | - | - | - | - | - | - | 2,731 | - |
| Transportation | | | | | | | | | |
| Sudley Road Third Lane | 40 | - | - | - | - | - | - | 40 | - |
| Prince William Street (Gr | 209 | - | - | - | - | - | - | 209 | - |
| Sidewalk & Bicycle Infill I | 67 | - | - | - | - | - | - | 67 | - |
| Wakeman Drive Bike La | 500 | - | - | - | - | - | - | 500 | - |
| Program Total | 816 | - | - | - | - | - | - | 816 | - |
| Total General Fund | 5,520 | 420 | - | - | - | - | - | 5,940 | 420 |

SEWER FUND FUNDING BY CAPITAL PROJECT

(\$ in Thousands)

| | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|---------------------------|----------------|--------------|--------------|--------------|------------|------------|--------------|------------------|---------------|
| General Government | | | | | | | | | |
| Public Works & Utilities | 232 | 50 | - | - | - | - | - | 282 | 50 |
| Program Total | 232 | 50 | - | - | - | - | - | 282 | 50 |
| Transportation | | | | | | | | | |
| Prince William Street (Gr | 950 | - | - | - | - | - | - | 950 | - |
| Grant Avenue (Lee Aven | 530 | 150 | - | - | - | - | - | 680 | 150 |
| Dean Drive Extended (E | 20 | - | - | - | - | - | - | 20 | - |
| Dean Drive (Animal Shel | - | - | - | - | - | - | 980 | 980 | - |
| Commercial Corridor Str | - | - | 25 | - | - | - | - | 25 | 25 |
| Program Total | 1,500 | 150 | 25 | - | - | - | 980 | 2,655 | 175 |
| Sewer | | | | | | | | | |
| Upper Flat Branch Interc | 1,735 | 1,000 | 435 | - | - | - | - | 3,170 | 1,435 |
| Buckner Road Sewer Ma | - | 50 | 450 | 600 | - | - | - | 1,100 | 1,100 |
| Ellicott Lane Sewer Main | 85 | 100 | 400 | - | - | - | - | 585 | 500 |
| Sewer Main Replaceme | - | 10 | 40 | 600 | 450 | 450 | - | 1,550 | 1,550 |
| Program Total | 1,820 | 1,160 | 1,325 | 1,200 | 450 | 450 | - | 6,405 | 4,585 |
| Stormwater | | | | | | | | | |
| Jackson Avenue Draina | - | - | - | - | - | - | 60 | 60 | - |
| Program Total | - | - | - | - | - | - | 60 | 60 | - |
| Total Sewer Funds | 3,552 | 1,360 | 1,350 | 1,200 | 450 | 450 | 1,040 | 9,402 | 4,810 |

WATER FUND FUNDING BY CAPITAL PROJECT

(\$ in Thousands)

| | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|---------------------------|----------------|--------------|--------------|--------------|--------------|------------|--------------|------------------|---------------|
| General Government | | | | | | | | | |
| Public Works & Utilities | 168 | - | - | - | - | - | - | 168 | - |
| Program Total | 168 | - | - | - | - | - | - | 168 | - |
| Transportation | | | | | | | | | |
| Prince William Street (Gr | 1,710 | - | - | - | - | - | - | 1,710 | - |
| Grant Avenue (Lee Aven | 640 | 895 | - | - | - | - | - | 1,535 | 895 |
| Dean Drive Extended (E | 80 | - | - | - | - | - | - | 80 | - |
| Dean Drive (Animal Shel | - | - | - | - | - | - | 1,690 | 1,690 | - |
| Commercial Corridor Str | - | - | 150 | - | - | - | - | 150 | 150 |
| Program Total | 2,430 | 895 | 150 | - | - | - | 1,690 | 5,165 | 1,045 |
| Sewer | | | | | | | | | |
| Upper Flat Branch Interc | - | 210 | - | - | - | - | - | 210 | 210 |
| Buckner Road Sewer Ma | - | 10 | 70 | 45 | - | - | - | 125 | 125 |
| Program Total | - | 220 | 70 | 45 | - | - | - | 335 | 335 |
| Water | | | | | | | | | |
| 24" Transmission Main | 7,761 | 1,000 | 900 | 900 | 900 | - | 900 | 12,361 | 3,700 |
| Finished Water Capacity | 750 | - | - | - | - | - | - | 750 | - |
| Main Replacement / Loo | 2,534 | 200 | 495 | 515 | 400 | 400 | 2,900 | 7,444 | 2,010 |
| Clear-Well Addition and | 2,400 | - | - | - | - | - | - | 2,400 | - |
| Nokesville Road Upgrad | - | - | - | - | - | - | 1,000 | 1,000 | - |
| Interconnecting Meter V | 30 | 50 | - | - | - | - | 200 | 280 | 50 |
| Water Plant Improvemen | 245 | 475 | 200 | - | - | - | - | 920 | 675 |
| Program Total | 13,720 | 1,725 | 1,595 | 1,415 | 1,300 | 400 | 5,000 | 25,155 | 6,435 |
| Stormwater | | | | | | | | | |
| Jackson Avenue Draina | - | - | - | - | - | - | 230 | 230 | - |
| Program Total | - | - | - | - | - | - | 230 | 230 | - |
| Total Water Fund | 16,318 | 2,840 | 1,815 | 1,460 | 1,300 | 400 | 6,920 | 31,053 | 7,815 |

ELECTRIC FUNDING BY CAPITAL PROJECT

(\$ in Thousands)

| | Prior Years | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | Future | Total Project | 5-Year CIP |
|-----------------------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|------------------|---------------|
| General Government | | | | | | | | | |
| City Hall Improvements/ | 280 | - | - | - | - | - | - | 280 | - |
| Public Works & Utilities | 730 | - | - | - | - | - | - | 730 | - |
| Manassas Customer Ser | - | 90 | - | - | - | - | - | 90 | 90 |
| Program Total | 1,010 | 90 | - | - | - | - | - | 1,100 | 90 |
| Transportation | | | | | | | | | |
| Prince William Street (Gr | 991 | - | - | - | - | - | - | 991 | - |
| Grant Avenue (Lee Aven | 300 | 400 | 250 | - | - | - | - | 950 | 650 |
| Dean Drive Extended (E | 135 | - | - | - | - | - | - | 135 | - |
| Dean Drive (Animal Shel | - | - | - | - | - | - | 1,050 | 1,050 | - |
| Sidewalk & Bicycle Infill I | - | 200 | 200 | - | - | - | - | 400 | 400 |
| Fairview Avenue / Tudor | 780 | - | - | - | - | - | - | 780 | - |
| Program Total | 2,206 | 600 | 450 | - | - | - | 1,050 | 4,306 | 1,050 |
| Electric | | | | | | | | | |
| Underground Cable and | 3,340 | 400 | 400 | 400 | 400 | 400 | - | 5,340 | 2,000 |
| Alternative Generation In | 1,450 | 300 | 300 | 300 | 300 | 300 | - | 2,950 | 1,500 |
| New Fiber Optic Loop/Ri | 355 | - | - | - | - | - | - | 355 | - |
| Place Overhead Lines U | 1,275 | 450 | 500 | 400 | 580 | 500 | - | 3,705 | 2,430 |
| LED Streetlight Replace | 250 | 100 | 100 | 100 | 100 | 100 | - | 750 | 500 |
| Manassas Airport Distrib | - | 175 | 300 | 300 | 450 | 450 | - | 1,675 | 1,675 |
| Point of Woods Substati | - | 300 | 200 | - | - | - | - | 500 | 500 |
| Substation Capacity and | - | 225 | 325 | 325 | 450 | 350 | 2,650 | 4,325 | 1,675 |
| Program Total | 6,670 | 1,950 | 2,125 | 1,825 | 2,280 | 2,100 | 2,650 | 19,600 | 10,280 |
| Total Electric Funds | 9,886 | 2,640 | 2,575 | 1,825 | 2,280 | 2,100 | 3,700 | 25,006 | 11,420 |

STORMWATER FUND FUNDING BY CAPITAL PROJECT

(\$ in Thousands)

| | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|------------------------------|----------------|---------|---------|---------|---------|---------|--------|------------------|---------------|
| Stormwater | | | | | | | | | |
| Sills Pond | - | - | - | - | - | - | 396 | 396 | - |
| Peabody Street / Early S | - | - | 25 | 380 | - | - | - | 405 | 405 |
| Cockrell Branch SWM P | - | 10 | 424 | - | - | - | - | 434 | 434 |
| Hazel Drive Channel Imp | 35 | - | - | - | - | - | - | 35 | - |
| School Street Drainage I | 102 | - | - | - | - | - | - | 102 | - |
| Program Total | 137 | 10 | 449 | 380 | - | - | 396 | 1,372 | 839 |
| Total Stormwater Fund | 137 | 10 | 449 | 380 | - | - | 396 | 1,372 | 839 |

AIRPORT FUND FUNDING BY CAPITAL PROJECT

(\$ in Thousands)

| | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|-----------------------------|----------------|---------|---------|---------|---------|---------|--------|------------------|---------------|
| Airport | | | | | | | | | |
| Air Traffic Control Tower | - | - | - | - | - | - | 152 | 152 | - |
| Upgrade Runway 16R/3 | - | 8 | - | - | - | - | - | 8 | 8 |
| Realignment of Wakema | - | - | - | - | - | - | 77 | 77 | - |
| Land Acquisition Southw | - | - | - | - | - | - | 60 | 60 | - |
| Fuel Farm Update | - | - | - | - | - | - | 367 | 367 | - |
| Taxiway A Rehabilitation | - | 5 | 45 | - | - | - | - | 50 | 50 |
| Runway 16R/34L Rehabi | - | 60 | - | - | - | - | - | 60 | 60 |
| North East Apron Expan | - | - | - | - | - | - | 26 | 26 | - |
| Rehabilitate and Widen | - | - | - | 6 | 60 | - | - | 66 | 66 |
| Terminal Parking Lot Ex | - | - | 10 | 100 | - | - | - | 110 | 110 |
| Terminal Building Roof R | - | 30 | - | - | - | - | - | 30 | 30 |
| Upgrade Taxiway A Light | - | - | 6 | - | - | - | - | 6 | 6 |
| Installation of Security Fi | 24 | 9 | - | - | - | - | - | 33 | 9 |
| Installation of Backup G | - | - | 50 | - | - | - | 60 | 110 | 50 |
| Taxiway G and Taxilane | 6 | - | - | - | - | - | - | 6 | - |
| West Corporate Develop | - | 200 | - | - | - | - | - | 200 | 200 |
| Program Total | 30 | 312 | 111 | 106 | 60 | - | 742 | 1,361 | 589 |
| Total Airport Funds | 30 | 312 | 111 | 106 | 60 | - | 742 | 1,361 | 589 |

SCHOOL FUNDING BY CAPITAL PROJECT

(\$ in Thousands)

| | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|---------------------------|----------------|--------------|--------------|--------------|--------------|--------------|------------|------------------|---------------|
| Transportation | | | | | | | | | |
| Fairview Avenue / Tudor | 33 | - | - | - | - | - | - | 33 | - |
| Program Total | 33 | - | - | - | - | - | - | 33 | - |
| Schools | | | | | | | | | |
| District Wide - Classroo | - | - | 200 | 250 | 250 | - | - | 700 | 700 |
| District Wide - Technolo | - | 175 | 250 | 200 | 200 | 200 | - | 1,025 | 1,025 |
| District Wide - School Bu | - | 500 | 486 | 500 | 500 | 500 | - | 2,486 | 2,486 |
| District Wide - School Bu | - | 125 | 121 | - | 125 | 125 | - | 496 | 496 |
| District Wide - Restroom | - | - | - | - | 100 | - | 300 | 400 | 100 |
| Central Office - Replace | - | - | 500 | 2,099 | 1,594 | - | - | 4,193 | 4,193 |
| Osborn - Parking Lot I | - | - | - | - | - | 250 | - | 250 | 250 |
| Osborn - Hallway Floor | - | - | - | - | - | 500 | - | 500 | 500 |
| Osborn - Cooling Towe | - | - | - | - | - | 1,000 | - | 1,000 | 1,000 |
| Osborn - Restroom Ref | - | - | - | - | 44 | 50 | - | 94 | 94 |
| Metz - Classroom Floori | - | - | - | - | - | 275 | - | 275 | 275 |
| Mayfield - Roof Replace | - | - | 2,000 | - | - | - | - | 2,000 | 2,000 |
| Haydon - Parking Lot Im | - | - | - | - | - | 100 | 150 | 250 | 100 |
| Round - Phased BAS/H | - | 2,200 | - | - | - | - | - | 2,200 | 2,200 |
| Weems - Parking Lot Im | - | - | - | - | 40 | - | - | 40 | 40 |
| Weems - Partial Mainten | - | - | - | - | 84 | - | - | 84 | 84 |
| Weems - Interior Paint | - | - | - | - | 63 | - | - | 63 | 63 |
| Program Total | - | 3,000 | 3,557 | 3,049 | 3,000 | 3,000 | 450 | 16,056 | 15,606 |
| Total School Funds | 33 | 3,000 | 3,557 | 3,049 | 3,000 | 3,000 | 450 | 16,089 | 15,606 |

BOND FUNDING BY CAPITAL PROJECT

(\$ in Thousands)

| | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|---------------------------------|----------------|---------|---------|---------|---------|---------|--------|------------------|---------------|
| General Government | | | | | | | | | |
| City Hall Improvements/ | 500 | - | - | - | - | - | - | 500 | - |
| Program Total | 500 | - | - | - | - | - | - | 500 | - |
| Culture & Recreation | | | | | | | | | |
| Manassas Museum | - | - | 2,500 | - | - | - | - | 2,500 | 2,500 |
| Dean Park | - | - | 2,400 | - | - | - | - | 2,400 | 2,400 |
| Stonewall Park/Pool | - | - | - | - | - | - | 2,500 | 2,500 | - |
| E.G. Smith Baseball Co | - | - | 1,600 | - | - | - | 3,000 | 4,600 | 1,600 |
| Manassas Library | - | - | - | - | - | - | 10,200 | 10,200 | - |
| Program Total | - | - | 6,500 | - | - | - | 15,700 | 22,200 | 6,500 |
| Public Safety | | | | | | | | | |
| Public Safety Facility | 26,000 | - | 22,500 | - | - | - | - | 48,500 | 22,500 |
| Fire/Rescue Station 21 | 11,500 | - | - | - | - | - | - | 11,500 | - |
| Fire/Rescue Station 1 | - | - | - | - | - | - | 17,500 | 17,500 | - |
| Program Total | 37,500 | - | 22,500 | - | - | - | 17,500 | 77,500 | 22,500 |
| Transportation | | | | | | | | | |
| Prince William Street (Gr | 2,130 | - | - | - | - | - | - | 2,130 | - |
| Grant Avenue (Lee Aven | 4,000 | - | - | - | - | - | - | 4,000 | - |
| Route 28 / Nokesville Ro | 358 | - | - | - | - | - | - | 358 | - |
| Commercial Corridor Str | - | - | 1,200 | - | - | - | - | 1,200 | 1,200 |
| North Side Downtown P | - | - | - | - | - | - | 6,500 | 6,500 | - |
| Program Total | 6,488 | - | 1,200 | - | - | - | 6,500 | 14,188 | 1,200 |
| Water | | | | | | | | | |
| 24" Transmission Main | 9,000 | - | 12,000 | - | 2,000 | - | 1,900 | 24,900 | 14,000 |
| Finished Water Capacity | 2,250 | - | - | - | - | - | - | 2,250 | - |
| Dean Storage Tank | 10,000 | - | - | - | - | - | - | 10,000 | - |
| Program Total | 21,250 | - | 12,000 | - | 2,000 | - | 1,900 | 37,150 | 14,000 |
| Stormwater | | | | | | | | | |
| Jackson Avenue Draina | - | - | - | - | - | - | 1,650 | 1,650 | - |
| Winter's Branch Stream | - | - | - | - | - | - | 8,250 | 8,250 | - |
| Flat Branch Stream Rest | - | - | - | - | - | - | 4,100 | 4,100 | - |
| Sumner Lake Stream Re | - | - | - | - | - | - | 4,750 | 4,750 | - |
| Program Total | - | - | - | - | - | - | 18,750 | 18,750 | - |

BOND FUNDING BY CAPITAL PROJECT

(\$ in Thousands)

| | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|--------------------------|----------------|----------|---------------|--------------|--------------|----------|----------------|------------------|---------------|
| Schools | | | | | | | | | |
| Central Office - Replace | - | - | - | 2,141 | - | - | - | 2,141 | 2,141 |
| New Dean - Building Re | - | - | - | - | - | - | 76,227 | 76,227 | - |
| Program Total | - | - | - | 2,141 | - | - | 76,227 | 78,368 | 2,141 |
| Total Bond Funds | 65,738 | - | 42,200 | 2,141 | 2,000 | - | 136,577 | 248,656 | 46,341 |

STATE FUNDING BY CAPITAL PROJECT

(\$ in Thousands)

| | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|-----------------------------|----------------|--------------|------------|------------|------------|----------|--------------|------------------|---------------|
| Transportation | | | | | | | | | |
| Sudley Road Third Lane | 7,360 | - | - | - | - | - | - | 7,360 | - |
| Prince William Street (Gr | 2,091 | - | - | - | - | - | - | 2,091 | - |
| Dean Drive Extended (E | 1,231 | - | - | - | - | - | - | 1,231 | - |
| Route 28 / Nokesville Ro | 2,638 | - | - | - | - | - | - | 2,638 | - |
| Sidewalk & Bicycle Infill I | 446 | - | - | - | - | - | - | 446 | - |
| Godwin Drive Bike Trail | 753 | - | - | - | - | - | - | 753 | - |
| Traffic Signal Span Wire | - | - | - | - | 150 | - | - | 150 | 150 |
| Program Total | 14,519 | - | - | - | 150 | - | - | 14,669 | 150 |
| Airport | | | | | | | | | |
| Air Traffic Control Tower | - | - | - | - | - | - | 608 | 608 | - |
| Upgrade Runway 16R/3 | - | 32 | - | - | - | - | - | 32 | 32 |
| Realignment of Wakema | - | - | - | - | - | - | 308 | 308 | - |
| Land Acquisition Southw | - | - | - | - | - | - | 90 | 90 | - |
| Fuel Farm Update | - | - | - | - | - | - | 183 | 183 | - |
| Taxiway A Rehabilitation | - | 20 | 180 | - | - | - | - | 200 | 200 |
| Runway 16R/34L Rehabi | - | 240 | - | - | - | - | - | 240 | 240 |
| North East Apron Expan | - | - | - | - | - | - | 104 | 104 | - |
| Rehabilitate and Widen | - | - | - | 24 | 240 | - | - | 264 | 264 |
| Terminal Parking Lot Ex | - | - | 40 | 400 | - | - | - | 440 | 440 |
| Terminal Building Roof R | - | 70 | - | - | - | - | - | 70 | 70 |
| Upgrade Taxiway A Light | - | - | 24 | - | - | - | - | 24 | 24 |
| Installation of Security Fi | - | 131 | - | - | - | - | - | 131 | 131 |
| Installation of Backup G | - | - | 200 | - | - | - | 240 | 440 | 200 |
| Taxiway G and Taxilane | 23 | - | - | - | - | - | - | 23 | - |
| West Corporate Develop | - | 800 | - | - | - | - | - | 800 | 800 |
| Program Total | 23 | 1,293 | 444 | 424 | 240 | - | 1,533 | 3,957 | 2,401 |
| Total State Funds | 14,542 | 1,293 | 444 | 424 | 390 | - | 1,533 | 18,626 | 2,551 |

State funding generally takes the form of grants. Projects will not move forward until awards have been received.

FEDERAL FUNDING BY CAPITAL PROJECT

(\$ in Thousands)

| | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|---------------------------------|----------------|--------------|--------------|------------|--------------|----------|---------------|------------------|---------------|
| Culture & Recreation | | | | | | | | | |
| Dean Park | - | - | 500 | - | - | - | - | 500 | 500 |
| Stonewall Park/Pool | - | - | - | - | - | - | 500 | 500 | - |
| Program Total | - | - | 500 | - | - | - | 500 | 1,000 | 500 |
| Transportation | | | | | | | | | |
| Dean Drive (Animal Shel | - | - | - | - | - | - | 1,600 | 1,600 | - |
| Route 28 / Nokesville Ro | 5,391 | - | - | - | - | - | - | 5,391 | - |
| Stonewall Park Trail Ext | - | - | - | - | - | - | 1,700 | 1,700 | - |
| Traffic Signal Span Wire | - | - | - | - | 600 | - | - | 600 | 600 |
| Roundabout Sudley/Cen | - | 3,400 | - | - | - | - | - | 3,400 | 3,400 |
| Mathis Avenue Improve | - | - | 3,192 | - | - | - | - | 3,192 | 3,192 |
| Program Total | 5,391 | 3,400 | 3,192 | - | 600 | - | 3,300 | 15,883 | 7,192 |
| Airport | | | | | | | | | |
| Air Traffic Control Tower | - | - | - | - | - | - | 6,840 | 6,840 | - |
| Upgrade Runway 16R/3 | - | 360 | - | - | - | - | - | 360 | 360 |
| Realignment of Wakema | - | - | - | - | - | - | 3,465 | 3,465 | - |
| Land Acquisition Southw | - | - | - | - | - | - | 2,850 | 2,850 | - |
| Taxiway A Rehabilitation | - | 225 | 2,025 | - | - | - | - | 2,250 | 2,250 |
| Runway 16R/34L Rehabi | - | 2,700 | - | - | - | - | - | 2,700 | 2,700 |
| North East Apron Expan | - | - | - | - | - | - | 1,170 | 1,170 | - |
| Rehabilitate and Widen | - | - | - | 270 | 2,700 | - | - | 2,970 | 2,970 |
| Upgrade Taxiway A Light | - | - | 270 | - | - | - | - | 270 | 270 |
| Taxiway G and Taxilane | 264 | 2,648 | - | - | - | - | - | 2,912 | 2,648 |
| Program Total | 264 | 5,933 | 2,295 | 270 | 2,700 | - | 14,325 | 25,787 | 11,198 |
| Total Federal Funds | 5,655 | 9,333 | 5,987 | 270 | 3,300 | - | 18,125 | 42,670 | 18,890 |

Federal funding generally takes the form of grants. Projects will not move forward until awards have been received.

NVTA 30% FUNDING BY CAPITAL PROJECT

(\$ in Thousands)

| | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|-----------------------------|----------------|---------|---------|---------|---------|---------|--------|------------------|---------------|
| Transportation | | | | | | | | | |
| Land Acquisition (Downt | - | - | - | - | - | - | 1,200 | 1,200 | - |
| Prince William Street (Gr | 1,659 | - | - | - | - | - | - | 1,659 | - |
| Grant Avenue (Lee Aven | 900 | - | - | - | - | - | - | 900 | - |
| Dean Drive Extended (E | 1,993 | - | - | - | - | - | - | 1,993 | - |
| Dean Drive (Animal Shel | - | - | - | - | - | - | 1,600 | 1,600 | - |
| Route 28 / Nokesville Ro | 3,294 | - | - | - | - | - | - | 3,294 | - |
| Liberia Avenue Improve | - | - | 500 | - | - | - | - | 500 | 500 |
| Stonewall Park Trail Exte | - | - | - | - | - | - | 300 | 300 | - |
| Sidewalk & Bicycle Infill I | 1,091 | 500 | 300 | 300 | 300 | 300 | - | 2,791 | 1,700 |
| Godwin Drive Bike Trail | 900 | - | - | - | - | - | - | 900 | - |
| Commercial Corridor Str | 250 | 250 | 250 | 250 | 250 | 250 | - | 1,500 | 1,250 |
| Centreville Road Improv | 300 | 150 | - | - | - | - | - | 450 | 150 |
| Fairview Avenue / Tudor | 200 | - | - | - | - | - | - | 200 | - |
| Roundabout Sudley/Cen | 425 | - | - | - | - | - | - | 425 | - |
| Program Total | 11,012 | 900 | 1,050 | 550 | 550 | 550 | 3,100 | 17,712 | 3,600 |
| Total NVTA 30% Funds | 11,012 | 900 | 1,050 | 550 | 550 | 550 | 3,100 | 17,712 | 3,600 |

OTHER SOURCE FUNDING BY CAPITAL PROJECT

(\$ in Thousands)

| | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|---------------------------------|----------------|------------|--------------|----------|----------|----------|--------------|------------------|---------------|
| Culture & Recreation | | | | | | | | | |
| Manassas Museum | - | - | 1,000 | - | - | - | - | 1,000 | 1,000 |
| Stonewall Park/Pool | 16 | - | - | - | - | - | - | 16 | - |
| E.G. Smith Baseball Co | 121 | - | - | - | - | - | 3,000 | 3,121 | - |
| Annaburg Manor | 1,300 | - | - | - | - | - | 5,000 | 6,300 | - |
| Jennie Dean Memorial | - | 175 | - | - | - | - | - | 175 | 175 |
| Program Total | 1,437 | 175 | 1,000 | - | - | - | 8,000 | 10,612 | 1,175 |
| Public Safety | | | | | | | | | |
| Public Safety Facility | 520 | - | - | - | - | - | - | 520 | - |
| Fire/Rescue Station 21 | 100 | - | - | - | - | - | - | 100 | - |
| Program Total | 620 | - | - | - | - | - | - | 620 | - |
| Transportation | | | | | | | | | |
| Grant Avenue (Lee Aven | 126 | - | - | - | - | - | - | 126 | - |
| Dean Drive Extended (E | 195 | - | - | - | - | - | - | 195 | - |
| Sidewalk & Bicycle Infill I | 128 | - | - | - | - | - | - | 128 | - |
| Fairview Avenue / Tudor | 117 | - | - | - | - | - | - | 117 | - |
| Gateway Boulevard Side | 340 | - | - | - | - | - | - | 340 | - |
| Program Total | 906 | - | - | - | - | - | - | 906 | - |
| Sewer | | | | | | | | | |
| Upper Flat Branch Interc | 35 | - | - | - | - | - | - | 35 | - |
| Program Total | 35 | - | - | - | - | - | - | 35 | - |
| Stormwater | | | | | | | | | |
| School Street Drainage I | 100 | - | - | - | - | - | - | 100 | - |
| Program Total | 100 | - | - | - | - | - | - | 100 | - |
| Total Other Sources | 3,098 | 175 | 1,000 | - | - | - | 8,000 | 12,273 | 1,175 |

FY2020 includes \$175,000 of donations for the Jennie Dean Memorial project.

FY 2020 CAPITAL PROJECTS

(\$ in Thousands)

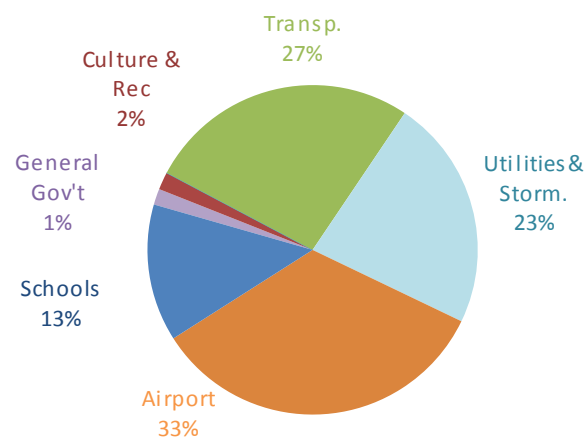
| | | FY 2020 |
|---------------------------------|---|----------------|
| General Government | | |
| G-020 | Public Works & Utilities Facility Improvements | 100 |
| G-022 | Manassas Customer Service Center | 250 |
| | | 350 |
| Culture & Recreation | | |
| C-041 | Annaburg Manor | 35 |
| C-042 | Jennie Dean Memorial | 350 |
| | | 385 |
| Transportation | | |
| T-021 | Grant Avenue (Lee Avenue to Wellington Road) | 1,445 |
| T-058 | Sidewalk & Bicycle Infill Initiative | 700 |
| T-070 | Commercial Corridor Streetscapes | 250 |
| T-074 | Centreville Road Improvements | 150 |
| T-085 | Roundabout Sudley/Centreville | 3,400 |
| | | 5,945 |
| Sewer | | |
| S-016 | Upper Flat Branch Interceptor Replacement | 1,210 |
| S-020 | Buckner Road Sewer Main Replacement | 60 |
| S-021 | Ellicott Lane Sewer Main Replacement | 100 |
| S-023 | Sewer Main Replacement | 10 |
| | | 1,380 |
| Water | | |
| W-042 | 24" Transmission Main Replacement | 1,000 |
| W-050 | Main Replacement / Looping | 200 |
| W-068 | Interconnecting Meter Vaults | 50 |
| W-070 | Water Plant Improvements | 475 |
| | | 1,725 |
| Electric | | |
| E-030 | Underground Cable and Termination Replacement | 400 |
| E-031 | Alternative Generation Initiatives | 300 |
| E-033 | Place Overhead Lines Underground (Non-Transportation) | 450 |
| E-034 | LED Streetlight Replacement | 100 |
| E-035 | Manassas Airport Distribution Improvements | 175 |
| E-036 | Point of Woods Substation Circuit Tie-Point | 300 |
| E-037 | Substation Capacity and Reliability Improvements | 225 |
| | | 1,950 |

FY 2020 CAPITAL PROJECTS

(\$ in Thousands)

| | | FY 2020 |
|-------------------|---|----------------|
| Stormwater | | |
| D-018 | Cockrell Branch SWM Pond Restoration / Dredging | 10 |
| | | 10 |
| Airport | | |
| A-032 | Upgrade Runway 16R/34L Lighting System and PAPIs | 400 |
| A-069 | Taxiway A Rehabilitation | 250 |
| A-070 | Runway 16R/34L Rehabilitation | 3,000 |
| A-077 | Terminal Building Roof Replacement | 100 |
| A-080 | Installation of Security Fiberline | 140 |
| A-086 | Taxiway G and Taxilane Y Construction | 2,648 |
| A-087 | West Corporate Development Site / Drainage Improvements | 1,000 |
| | | 7,538 |
| Schools | | |
| 0102 | District Wide - Technology Upgrades | 175 |
| 0103 | District Wide - School Bus Replacements | 500 |
| 0105 | District Wide - School Bus Additions | 125 |
| 1004 | Round - Phased BAS/HVAC Replacement | 2,200 |
| | | 3,000 |
| Total | | 22,283 |

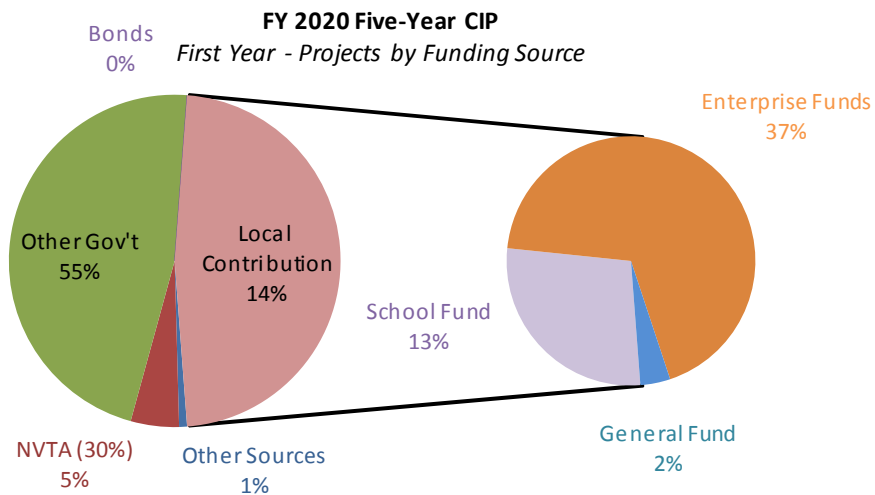
FY 2020 Five-Year CIP
First Year - Projects by Program



FY 2020 CAPITAL PROJECTS

(\$ in Thousands)

| Funding Sources | FY 2020 |
|-----------------|---------------|
| General Fund | 420 |
| Sewer Fund | 1,360 |
| Water Fund | 2,840 |
| Electric Fund | 2,640 |
| Stormwater Fund | 10 |
| Airport Fund | 312 |
| School Fund | 3,000 |
| Bonds | - |
| State | 1,293 |
| Federal | 9,333 |
| NVTA | 900 |
| Other Sources | 175 |
| Total | 22,283 |



SUMMARY OF MAINTENANCE CAPITAL PROJECTS BY PROGRAM

(\$ in Thousands)

The City identifies capital projects as projects with a cost greater than \$100,000 and a useful life of 10+ years. The City recognizes that there are additional projects/needs that are capital in nature but do not meet the requirement set forth for a capital project. These additional projects/needs are considered Maintenance Capital Projects, a list of which is provided below for all of the CIP program areas.

| | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year Total |
|----------------------|----------------|--------------|--------------|--------------|------------|--------------|-----------|------------------|-----------------|
| Culture & Recreation | 1,618 | 162 | 120 | 200 | 120 | 200 | - | 2,420 | 802 |
| Public Safety | - | - | - | - | - | - | - | - | - |
| Transportation | 2,157 | 436 | 400 | 400 | 400 | 400 | - | 4,193 | 2,036 |
| Electric | - | 110 | - | 110 | - | 110 | - | 330 | 330 |
| Stormwater | 100 | 100 | 100 | 100 | 100 | 100 | - | 600 | 500 |
| Airport | 366 | 220 | 870 | 220 | 220 | 220 | 35 | 2,151 | 1,750 |
| Total Cost | 4,241 | 1,028 | 1,490 | 1,030 | 840 | 1,030 | 35 | 9,694 | 5,418 |

Funding Sources:

| | | | | | | | | | |
|----------------------|--------------|--------------|--------------|--------------|------------|--------------|-----------|--------------|--------------|
| General Fund | 2,675 | 450 | 360 | 500 | 360 | 500 | - | 4,845 | 2,170 |
| Sewer Fund | - | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - | - |
| Electric Fund | - | 110 | - | 110 | - | 110 | - | 330 | 330 |
| Stormwater Fund | 100 | 100 | 100 | 100 | 100 | 100 | - | 600 | 500 |
| Airport Fund | 137 | 44 | 106 | 44 | 44 | 44 | 7 | 426 | 282 |
| School Fund | 420 | - | 60 | - | 60 | - | - | 540 | 120 |
| Bonds | - | - | - | - | - | - | - | - | - |
| State | 841 | 176 | 224 | 176 | 176 | 176 | 28 | 1,797 | 928 |
| Federal | - | - | 540 | - | - | - | - | 540 | 540 |
| NVTA | - | 100 | 100 | 100 | 100 | 100 | - | 500 | 500 |
| Other Sources | 68 | 48 | - | - | - | - | - | 116 | 48 |
| Total Funding | 4,241 | 1,028 | 1,490 | 1,030 | 840 | 1,030 | 35 | 9,694 | 5,418 |

MAINTENANCE CAPITAL PROJECT LISTING

(\$ in Thousands)

The City identifies capital projects as projects with a cost greater than \$100,000 **and** a useful life of 10+ years. The City recognizes that there are additional projects/needs that are capital in nature but do not meet the requirement set forth for a capital project. These additional projects/needs are considered Maintenance Capital Projects, a list of which is provided below for all of the CIP program areas.

| | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|---------------------------------|----------------|--------------|--------------|--------------|------------|--------------|-----------|------------------|---------------|
| Culture & Recreation | | | | | | | | | |
| School Playground Equi | 925 | - | 120 | - | 120 | - | - | 1,165 | 240 |
| Museum Improvements | 149 | - | - | - | - | - | - | 149 | - |
| Park Improvements | 544 | 162 | - | 200 | - | 200 | - | 1,106 | 562 |
| Program Total | 1,618 | 162 | 120 | 200 | 120 | 200 | - | 2,420 | 802 |
| Transportation | | | | | | | | | |
| Traffic Signal Coordinati | - | 100 | 100 | 100 | 100 | 100 | - | 500 | 500 |
| Supplemental Street Pav | 2,157 | 336 | 300 | 300 | 300 | 300 | - | 3,693 | 1,536 |
| Program Total | 2,157 | 436 | 400 | 400 | 400 | 400 | - | 4,193 | 2,036 |
| Electric | | | | | | | | | |
| Circuit Automation | - | 110 | - | 110 | - | 110 | - | 330 | 330 |
| Program Total | - | 110 | - | 110 | - | 110 | - | 330 | 330 |
| Stormwater | | | | | | | | | |
| Stormwater / Drainage M | 35 | 35 | 35 | 35 | 35 | 35 | - | 210 | 175 |
| Floodplain Mapping Upd | 65 | 65 | 65 | 65 | 65 | 65 | - | 390 | 325 |
| Program Total | 100 | 100 | 100 | 100 | 100 | 100 | - | 600 | 500 |
| Airport | | | | | | | | | |
| Airport Paving Program (| 326 | 120 | 120 | 120 | 120 | 120 | - | 926 | 600 |
| Master Plan Study | - | - | 600 | - | - | - | - | 600 | 600 |
| Airport Alternative Energ | - | - | - | - | - | - | 35 | 35 | - |
| Midfield Ditch Restoratio | - | - | 50 | - | - | - | - | 50 | 50 |
| Airfield Paving Program | 40 | 100 | 100 | 100 | 100 | 100 | - | 540 | 500 |
| Program Total | 366 | 220 | 870 | 220 | 220 | 220 | 35 | 2,151 | 1,750 |
| Total Costs | 4,241 | 1,028 | 1,490 | 1,030 | 840 | 1,030 | 35 | 9,694 | 5,418 |

MAINTENANCE CAPITAL PROJECT LISTING

(\$ in Thousands)

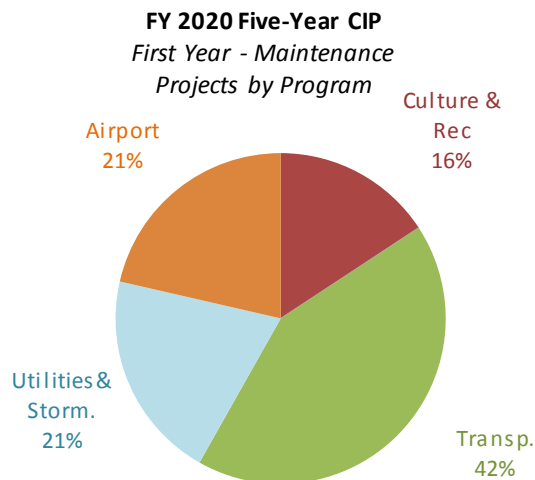
The City identifies capital projects as projects with a cost greater than \$100,000 **and** a useful life of 10+ years. The City recognizes that there are additional projects/needs that are capital in nature but do not meet the requirement set forth for a capital project. These additional projects/needs are considered Maintenance Capital Projects, a list of which is provided below for all of the CIP program areas.

| Funding Sources | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|----------------------|----------------|--------------|--------------|--------------|------------|--------------|-----------|------------------|---------------|
| General Fund | 2,675 | 450 | 360 | 500 | 360 | 500 | - | 4,845 | 2,170 |
| Sewer Fund | - | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - | - |
| Electric Fund | - | 110 | - | 110 | - | 110 | - | 330 | 330 |
| Stormwater Fund | 100 | 100 | 100 | 100 | 100 | 100 | - | 600 | 500 |
| Airport Fund | 137 | 44 | 106 | 44 | 44 | 44 | 7 | 426 | 282 |
| School Fund | 420 | - | 60 | - | 60 | - | - | 540 | 120 |
| Bonds | - | - | - | - | - | - | - | - | - |
| State | 841 | 176 | 224 | 176 | 176 | 176 | 28 | 1,797 | 928 |
| Federal | - | - | 540 | - | - | - | - | 540 | 540 |
| NVTA | - | 100 | 100 | 100 | 100 | 100 | - | 500 | 500 |
| Other Sources | 68 | 48 | - | - | - | - | - | 116 | 48 |
| Total Funding | 4,241 | 1,028 | 1,490 | 1,030 | 840 | 1,030 | 35 | 9,694 | 5,418 |

FY 2020 MAINTENANCE CAPITAL PROJECTS

(\$ in Thousands)

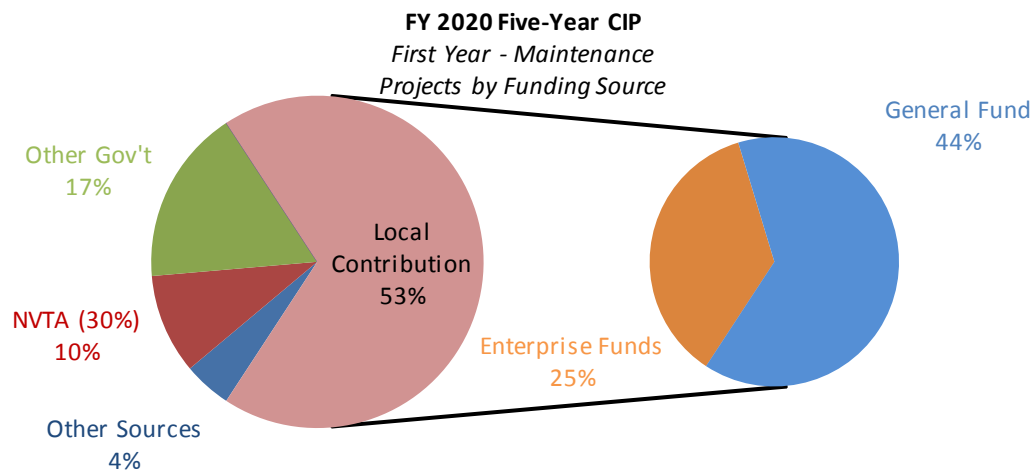
| | | FY 2020 |
|---------------------------------|---|----------------|
| Culture & Recreation | | |
| C-031 | Park Improvements | 162 |
| | | 162 |
| Transportation | | |
| T-064 | Traffic Signal Coordination & Upgrades | 100 |
| T-066 | Supplemental Street Paving | 336 |
| | | 436 |
| Electric | | |
| E-038 | Circuit Automation | 110 |
| | | 110 |
| Stormwater | | |
| D-029 | Stormwater / Drainage Maintenance Program | 35 |
| D-030 | Floodplain Mapping Update Program | 65 |
| | | 100 |
| Airport | | |
| A-058 | Airport Paving Program (outside Airfield) | 120 |
| A-084 | Airfield Paving Program | 100 |
| | | 220 |
| | | 1,028 |



FY 2020 MAINTENANCE CAPITAL PROJECTS

(\$ in Thousands)

| Funding Sources | FY 2020 |
|-----------------|--------------|
| General Fund | 450 |
| Sewer Fund | - |
| Water Fund | - |
| Electric Fund | 110 |
| Stormwater Fund | 100 |
| Airport Fund | 44 |
| School Fund | - |
| Bonds | - |
| State | 176 |
| Federal | - |
| NVTA | 100 |
| Other Sources | 48 |
| Total | 1,028 |



GENERAL GOVERNMENT PROGRAM

The General Government Program is administered by the Public Works Department. The program includes maintenance and construction of general government buildings including City Hall and the Public Works & Utilities Facility.

PRIOR YEAR ACCOMPLISHMENTS

City Hall Renovations/Improvements (G-016)

Continued planning to renovate the 1st and 2nd floors of City Hall, reroof the building, and replace the generator, which is over 25 years old and is critical to the computerized systems of the City.



Marvin L. Gillum City Hall

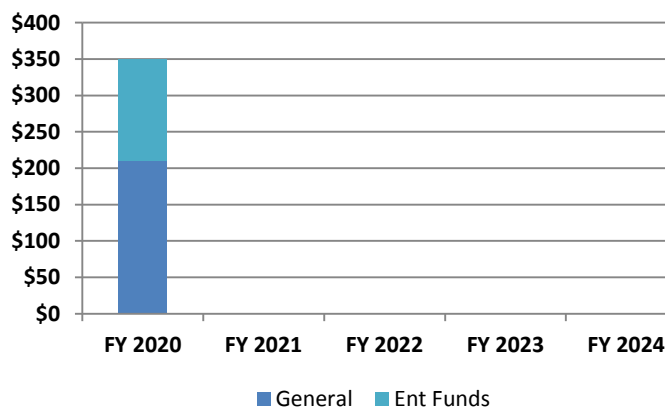
Public Works & Utilities Facility Improvements (G-020)

Continued planning at the Public Works & Utilities Facility in preparation for future renovations.

THE FIVE-YEAR PLAN (FY 2020 – FY 2024)

The FY 2020 Five-Year Capital Improvement Program (CIP) includes a \$210,000 transfer from the General Fund and \$140,000 transfer from Enterprise Funds (Sewer and Electric Funds).

The FY 2020 funding consists of a \$210,000 transfer from the General Fund; a \$50,000 transfer from the Sewer Fund and a \$90,000 transfer from the Electric Fund.



(Dollars in Thousands)

FY 2020 CAPITAL PROJECTS

Manassas Customer Service Center (G-022)

Prepare the existing City-owned DMV facility for use as a Manassas Customer Service Center after DMV moves to new building in May of 2019.



Future Manassas Customer Service Center

FY 2020 MAINTENANCE CAPITAL PROJECTS

There are no maintenance capital projects in the General Government Program.

NEW CAPITAL PROJECTS

Manassas Customer Service Center (G-022)

SUMMARY OF GENERAL GOVERNMENT CAPITAL PROJECTS

(\$ in Thousands)

| Cost Estimates: | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|------------------------|------------------------|----------------|----------------|----------------|----------------|----------------|---------------|--------------------------|-----------------------|
| Planning | - | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - | - |
| Construction | 2,519 | 350 | - | - | - | - | - | 2,869 | 350 |
| Total Cost | 2,519 | 350 | - | - | - | - | - | 2,869 | 350 |

Funding Sources:

| | | | | | | | | | |
|----------------------|--------------|------------|----------|----------|----------|----------|----------|--------------|------------|
| General Fund | 609 | 210 | - | - | - | - | - | 819 | 210 |
| Sewer Fund | 232 | 50 | - | - | - | - | - | 282 | 50 |
| Water Fund | 168 | - | - | - | - | - | - | 168 | - |
| Electric Fund | 1,010 | 90 | - | - | - | - | - | 1,100 | 90 |
| Stormwater Fund | - | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - | - |
| Bonds | 500 | - | - | - | - | - | - | 500 | - |
| State | - | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - | - |
| Total Funding | 2,519 | 350 | - | - | - | - | - | 2,869 | 350 |

Operating Impacts:

| | | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - | - |
| Program (Costs) Saving | - | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - | - |

GENERAL GOVERNMENT CAPITAL PROJECT LISTING

(\$ in Thousands)

| Project Name | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|--------------------------|----------------|------------|---------|---------|---------|---------|--------|------------------|---------------|
| City Hall Improvements/ | 1,159 | - | - | - | - | - | - | 1,159 | - |
| Public Works & Utilities | 1,360 | 100 | - | - | - | - | - | 1,460 | 100 |
| Manassas Customer Ser | - | 250 | - | - | - | - | - | 250 | 250 |
| Total | 2,519 | 350 | - | - | - | - | - | 2,869 | 350 |

G-016 City Hall Improvements/Renovations

Year Introduced: 2014
Change: No change
Associated Proj: G-022
Program Area: General Government
Managing Dept: Public Works
Manager: T. Fitzwater
Plan Conformance:
 Comprehensive Plan 7.11

Est. Start: 7/1/2015
Est. Complete: 12/31/2020



Description:

Renovate the 1st and 2nd floors of City Hall, reroof the building, and replace the generator, which is over 25 years old and is critical to the computerized systems of the City. The replacement generator will have the ability to carry the entire load of City Hall in the event of a power failure.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | 1,159 | - | - | - | - | - | - | 1,159 |
| Total Cost | 1,159 | - | - | - | - | - | - | 1,159 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | 379 | - | - | - | - | - | - | 379 |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | 280 | - | - | - | - | - | - | 280 |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | 500 | - | - | - | - | - | - | 500 |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 1,159 | - | - | - | - | - | - | 1,159 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

G-020 Public Works & Utilities Facility Improvements

Year Introduced: 2014

Change: No change

Associated Proj: N/A

Program Area: General Government

Managing Dept: Public Works

Manager: T. Fitzwater

Plan Conformance:

Comprehensive Plan 7.11

Est. Start: 7/1/2013

Est. Complete: 12/31/2020



Description:

FY18-FY19: Renovate and expand buildings "A" & "B" as well as renovations to the water/sewer shop.

FY20: Upgrade perimeter fencing.39.+6

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | 1,360 | 100 | - | - | - | - | - | 1,460 |
| Total Cost | 1,360 | 100 | - | - | - | - | - | 1,460 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | 230 | 50 | - | - | - | - | - | 280 |
| Sewer Fund | 232 | 50 | - | - | - | - | - | 282 |
| Water Fund | 168 | - | - | - | - | - | - | 168 |
| Electric Fund | 730 | - | - | - | - | - | - | 730 |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 1,360 | 100 | - | - | - | - | - | 1,460 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

G-022 Manassas Customer Service Center

Year Introduced: 2020
Change: New Project
Associated Proj: G-016
Program Area: General Government
Managing Dept: Public Works
Manager: T. Fitzwater

Plan Conformance:
 Comprehensive Plan 7.11
 Est. Start: 6/3/2019
Est. Complete: 12/31/2020



Description:

Prepare existing City-owned DMV facility for use as a Manassas Customer Service Center after DMV moves to new building in August of 2019.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | 250 | - | - | - | - | - | 250 |
| Total Cost | - | 250 | - | - | - | - | - | 250 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | 160 | - | - | - | - | - | 160 |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | 90 | - | - | - | - | - | 90 |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | 250 | - | - | - | - | - | 250 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

CULTURE & RECREATION PROGRAM

The Culture and Recreation Program is administered by a combination of the Public Works Department and the Community Development Department. It includes projects related to the construction and maintenance of buildings that are part of the Museum System as well as the maintenance, upgrade, and development of City Parks.

The City currently maintains 21 public amenity areas to meet the parks, recreation, and cultural needs of citizens. The City operates 270 acres of parks and open space, including walking trails, a public swimming pool, six historic sites, and recreational facilities at eight City schools. Specific information on amenities available at each of the parks can be found on the website at: <http://www.manassascity.org/parks>. The City also helps support the GMU Freedom Aquatic and Fitness Center and the Boys & Girls Club.

PRIOR YEAR ACCOMPLISHMENTS

Liberia House Restoration (C-004)

Completed construction of restrooms; continued efforts for house and landscape restoration.

Stonewall Park/Pool (C-029)

Completed updates to facilities including sidewalks, chairs, spray features. Completed renovations to the pool house to address safety and maintenance issues.



Stonewall Pool Splash Pad

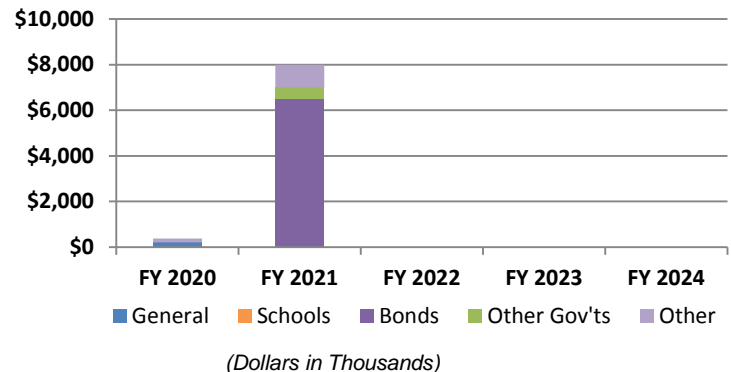
Maintenance Capital Projects

Completed renovations Haydon Elementary School Playground and Kinsley Mill Park.

THE FIVE-YEAR PLAN (FY 2020 – FY 2024)

The FY 2020 Five-Year Capital Improvement Program (CIP) includes a \$210,000 transfer from the General Fund; \$6,500,000 in Bonds; \$500,000 in Federal Aid; and \$1,175,000 in Other Sources.

In FY 2020 funding consists of a \$210,000 transfer from the General Fund and \$175,000 in Other Sources.



FY 2020 CAPITAL PROJECTS

Annaburg Manor (C-017)

Purchase 3.65 acres of land and the structure on it known as Annaburg Manor for a public park.

Jennie Dean Memorial (C-042)

This project would install a bronze statue of Ms. Jennie Dean with an accessible plaza and walkway.



Jennie Dean Memorial

FY 2020 MAINTENANCE CAPITAL PROJECTS

The maintenance capital projects are an integral part of the Culture & Recreation Program including annual replacements of school and park playground equipment (C-007) or general park improvements (C-031). In FY 2020, the maintenance capital projects include renovations to Cavalry Run Park and Mayfield Fort.

NEW CAPITAL PROJECTS

Annaburg Manor (C-040) - new in FY 2019

Jennie Dean Memorial (C-042)

Manassas Library (C-043) - change of scope

SUMMARY OF CULTURE & RECREATION CAPITAL PROJECTS

(\$ in Thousands)

| Cost Estimates: | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|------------------------|------------------------|----------------|----------------|----------------|----------------|----------------|---------------|--------------------------|-----------------------|
| Planning | 699 | 35 | - | - | - | - | - | 734 | 35 |
| Land | 846 | - | - | - | - | - | - | 846 | - |
| Construction | 1,256 | 350 | 8,000 | - | - | - | 24,200 | 33,806 | 8,350 |
| Total Cost | 2,801 | 385 | 8,000 | - | - | - | 24,200 | 35,386 | 8,385 |

Funding Sources:

| | | | | | | | | | |
|----------------------|--------------|------------|--------------|----------|----------|----------|---------------|---------------|--------------|
| General Fund | 1,364 | 210 | - | - | - | - | - | 1,574 | 210 |
| Sewer Fund | - | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - | - |
| Bonds | - | - | 6,500 | - | - | - | 15,700 | 22,200 | 6,500 |
| State | - | - | - | - | - | - | - | - | - |
| Federal | - | - | 500 | - | - | - | 500 | 1,000 | 500 |
| NVTA | - | - | - | - | - | - | - | - | - |
| Other Sources | 1,437 | 175 | 1,000 | - | - | - | 8,000 | 10,612 | 1,175 |
| Total Funding | 2,801 | 385 | 8,000 | - | - | - | 24,200 | 35,386 | 8,385 |

Operating Impacts:

| | | | | | | | | | |
|--------------------------|----------|-------------|-------------|--------------|--------------|--------------|-----------------|-----------------|----------------|
| Revenue | - | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | (20) | (20) | (20) | (20) | (20) | - | (100) | (100) |
| Program (Costs) Saving | - | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | (504) | (504) | (504) | (32,593) | (34,105) | (1,512) |
| Net Revenue | - | (20) | (20) | (524) | (524) | (524) | (32,593) | (34,205) | (1,612) |

FY2020 includes \$175,000 of donations for the Jennie Dean Memorial project.

CULTURE & RECREATION CAPITAL PROJECT LISTING

(\$ in Thousands)

| Project Name | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|------------------------|----------------|------------|--------------|----------|----------|----------|---------------|------------------|---------------|
| Manassas Museum | 260 | - | 3,500 | - | - | - | - | 3,760 | 3,500 |
| Dean Park | 264 | - | 2,900 | - | - | - | - | 3,164 | 2,900 |
| Stonewall Park/Pool | 601 | - | - | - | - | - | 3,000 | 3,601 | - |
| E.G. Smith Baseball Co | 376 | - | 1,600 | - | - | - | 6,000 | 7,976 | 1,600 |
| Annaburg Manor | 1,300 | 35 | - | - | - | - | 5,000 | 6,335 | 35 |
| Jennie Dean Memorial | - | 350 | - | - | - | - | - | 350 | 350 |
| Manassas Library | - | - | - | - | - | - | 10,200 | 10,200 | - |
| Total | 2,801 | 385 | 8,000 | - | - | - | 24,200 | 35,386 | 8,385 |

C-006 Manassas Museum

Year Introduced: 2001

Change: Other

Associated Proj: C-043

Program Area: Culture & Recreation

Managing Dept: Community Development

Manager: L. Via-Gossman

Plan Conformance:

Comprehensive Plan 9.1

Est. Start: 2/11/2008

Est. Complete: 6/30/2023



Description:

Project revised based on community input to construct a small addition to the museum rear for a community meeting space for 135 people (seated) that would not impact the front lawn. The project will add visible artifact storage/exhibit prep areas. The project will utilize a previous donation of \$1 million to update the main gallery with new changeable exhibits, renovate existing public restrooms, and turn the small conference room into a children's discovery zone. Also included are minor office and history library renovations, front wall improvements, landscaping, and potentially relocating playground equipment to the front of the museum at the corner of Liberty & Prince William Street.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 260 | - | - | - | - | - | - | 260 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | 3,500 | - | - | - | - | 3,500 |
| Total Cost | 260 | - | 3,500 | - | - | - | - | 3,760 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|------------|----------|--------------|----------|----------|----------|----------|--------------|
| General Fund | 260 | - | - | - | - | - | - | 260 |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | 2,500 | - | - | - | - | 2,500 |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | 1,000 | - | - | - | - | 1,000 |
| Total Funding | 260 | - | 3,500 | - | - | - | - | 3,760 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|--------------|--------------|--------------|----------------|----------------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | | (194) | (194) | (194) | (3,298) | |
| Net Revenue | - | - | - | (194) | (194) | (194) | (3,298) | (3,880) |

C-017 Dean Park

Year Introduced: 2016

Change: Funding to Later Year

Associated Proj: 1301

Program Area: Culture & Recreation

Managing Dept: Community Development

Manager: L. Via-Gossman

Plan Conformance:

Comprehensive Plan 9.1

Est. Start: 7/1/2016

Est. Complete: 6/30/2024



Description:

Enhance park facilities with additional sports fields, dog park, and trails per the master plan and in conjunction with Dean School replacement. Refine master plan and prepare site plans and cost estimates (FY19-20) and construct new facilities (FY21-24). A Land Water Conservation Fund application will be submitted for park enhancements.

Status: Design

Estimated Construction Start: 2021

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 264 | - | - | - | - | - | - | 264 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | 2,900 | - | - | - | - | 2,900 |
| Total Cost | 264 | - | 2,900 | - | - | - | - | 3,164 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|------------|----------|--------------|----------|----------|----------|----------|--------------|
| General Fund | 264 | - | - | - | - | - | - | 264 |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | 2,400 | - | - | - | - | 2,400 |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | 500 | - | - | - | - | 500 |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 264 | - | 2,900 | - | - | - | - | 3,164 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|--------------|--------------|--------------|----------------|----------------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | (186) | (186) | (186) | (3,162) | (3,720) |
| Net Revenue | - | - | - | (186) | (186) | (186) | (3,162) | (3,720) |

C-029 Stonewall Park/Pool

Year Introduced: 2016
Change: No change
Associated Proj: T-052
Program Area: Culture & Recreation
Managing Dept: Community Development
Manager: L. Via-Gossman
Plan Conformance:
 Comprehensive Plan 9.1

Est. Start:
Est. Complete:



Description:

Update the master plan (FY17) and enhance the 25 acre Stonewall Park and 6 acre New Britain Park (total 31 acres). Complete a Stonewall Pool Assessment and construct spray ground facilities (FY18). Renovate 1984 pool house (FY19). A future Phase 2 project will renovate or add additional sports fields, courts, trails, and designated open space to buffer existing adjacent neighborhoods. A Land Water Conservation Fund application will be submitted for future park enhancements.
 Status: Construction (Pool Improvements)

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 175 | - | - | - | - | - | - | 175 |
| Land | - | - | - | - | - | - | - | - |
| Construction | 426 | - | - | - | - | - | 3,000 | 3,426 |
| Total Cost | 601 | - | - | - | - | - | 3,000 | 3,601 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|------------|---|---|---|---|---|--------------|--------------|
| General Fund | 585 | - | - | - | - | - | - | 585 |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | 2,500 | 2,500 |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | 500 | 500 |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | 16 | - | - | - | - | - | - | 16 |
| Total Funding | 601 | - | - | - | - | - | 3,000 | 3,601 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------------|----------------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | (3,875) | (3,875) |
| Net Revenue | - | - | - | - | - | - | (3,875) | (3,875) |

C-037 E.G. Smith Baseball Complex

Year Introduced: 2018

Change: Funding to Later Year

Associated Proj: N/A

Program Area: Culture & Recreation

Managing Dept: Community Development

Manager: L. Via-Gossman

Plan Conformance:

Comprehensive Plan 9.1

Est. Start: 7/1/2018

Est. Complete: 6/30/2024



Description:

Phase 1: Make functional and safety repairs including improve drainage and safety at some of the fields, renovating or replacing certain press boxes and bleachers, replacing perimeter fencing and signage, and making parking lot improvements. A future Phase 2 project would fully renovate the ballfields and add enhanced amenities.

Status: Design

Estimated Construction Start: 2021

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | 376 | - | 1,600 | - | - | - | 6,000 | 7,976 |
| Total Cost | 376 | - | 1,600 | - | - | - | 6,000 | 7,976 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|------------|----------|--------------|----------|----------|----------|--------------|--------------|
| General Fund | 255 | - | - | - | - | - | - | 255 |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | 1,600 | - | - | - | 3,000 | 4,600 |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | 121 | - | - | - | - | - | 3,000 | 3,121 |
| Total Funding | 376 | - | 1,600 | - | - | - | 6,000 | 7,976 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|--------------|--------------|--------------|----------------|----------------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | | (124) | (124) | (124) | (6,758) | |
| Net Revenue | - | - | - | (124) | (124) | (124) | (6,758) | (7,130) |

C-041 Annaburg Manor

Year Introduced: 2019

Change: No change

Associated Proj: N/A

Program Area: Culture & Recreation

Managing Dept: Community Development

Manager: L. Via-Gossman

Plan Conformance:

Comprehensive Plan 9.1

Est. Start: 11/1/2018

Est. Complete: 12/31/2020



Description:

Purchase 3.65 acres of land and the structure on it known as Annaburg Manor for a public park. This purchase will provide parkland for City residents and an opportunity for an interested non-profit or the City to restore Annaburg Manor. Manassas currently has a deficit of 104 acres of park land. It is estimated that this park will serve more than 884 households, or 2,280 residents, within a 10 minute walk of the proposed park. Funds in FY20 will initiate community master planning. A future project would provide park improvements and potentially restore portions of the building for public use.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | 35 | - | - | - | - | - | 35 |
| Land | 846 | - | - | - | - | - | - | 846 |
| Construction | 454 | - | - | - | - | - | 5,000 | 5,454 |
| Total Cost | 1,300 | 35 | - | - | - | - | 5,000 | 6,335 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|--------------|-----------|----------|----------|----------|----------|--------------|--------------|
| General Fund | - | 35 | - | - | - | - | - | 35 |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | 1,300 | - | - | - | - | - | 5,000 | 6,300 |
| Total Funding | 1,300 | 35 | - | - | - | - | 5,000 | 6,335 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|-------------|-------------|-------------|-------------|-------------|----------|--------------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | (20) | (20) | (20) | (20) | (20) | - | (100) |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | (20) | (20) | (20) | (20) | (20) | - | (100) |

C-042 Jennie Dean Memorial

Year Introduced: 2020
Change: New Project
Associated Proj: C-017
Program Area: Culture & Recreation
Managing Dept: Community Development
Manager: L. Via-Gossman
Plan Conformance:
 Comprehensive Plan 9.2

Est. Start: 7/1/2019
Est. Complete: 11/1/2020



Description:

This project would install a bronze statue of Ms. Jennie Dean with an accessible plaza and walkway. The site had fallen into a state of disrepair during the recession and with the strong support of the community, the City has been steadily improving the conditions of the site. With those improvements, there is renewed interest from the community to install a bronze statue that has been proposed since 1995 when the memorial was first dedicated. This project would match community fundraising for the project.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | 350 | - | - | - | - | - | 350 |
| Total Cost | - | 350 | - | - | - | - | - | 350 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | 175 | - | - | - | - | - | 175 |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | 175 | - | - | - | - | - | 175 |
| Total Funding | - | 350 | - | - | - | - | - | 350 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

C-043 Manassas Library

Year Introduced: 2020
Change: Other
Associated Proj: C-006
Program Area: Culture & Recreation
Managing Dept: Community Development
Manager: L. Via-Gossman

Plan Conformance:
 Comprehensive Plan 9.1

Est. Start:
Est. Complete:



Description:

Construction of a future 8,000 – 12,000 square foot standalone, popular materials, and children's library on a centrally located site that is to be determined. Studies completed in FY19 provide a project cost estimate of \$8 million escalated 5% annually for the current construction estimate.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | - | - | 10,200 | 10,200 |
| Total Cost | - | - | - | - | - | - | 10,200 | 10,200 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | 10,200 | 10,200 |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | - | 10,200 | 10,200 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | (15,500) | (15,500) |
| Net Revenue | - | - | - | - | - | - | (15,500) | (15,500) |

CULTURE & RECREATION MAINTENANCE CAPITAL PROJECT LISTING (\$ in Thousands)

The City identifies Capital Projects as projects with a cost greater than \$100,000 and a useful life of 10+ years. The City recognizes that there are additional projects/needs that are capital in nature but do not meet the requirement set forth for a capital project. These additional projects/needs are considered Maintenance Capital Projects, a list of which is provided below for the Culture & Recreation Program.

| Project Name | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|------------------------|----------------|------------|------------|------------|------------|------------|----------|------------------|---------------|
| School Playground Equi | 925 | - | 120 | - | 120 | - | - | 1,165 | 240 |
| Museum Improvements | 149 | - | - | - | - | - | - | 149 | - |
| Park Improvements | 544 | 162 | - | 200 | - | 200 | - | 1,106 | 562 |
| Total Cost | 1,618 | 162 | 120 | 200 | 120 | 200 | - | 2,420 | 802 |

Funding Sources

| | | | | | | | | | |
|----------------------|--------------|------------|------------|------------|------------|------------|----------|--------------|------------|
| General Fund | 1,130 | 150 | 60 | 200 | 60 | 200 | - | 1,800 | 670 |
| Sewer Fund | - | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - | - |
| School Fund | 420 | - | 60 | - | 60 | - | - | 540 | 120 |
| Bonds | - | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - | - |
| Other Sources | 68 | 12 | - | - | - | - | - | 80 | 12 |
| Total Funding | 1,618 | 162 | 120 | 200 | 120 | 200 | - | 2,420 | 802 |

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PUBLIC SAFETY PROGRAM

The Public Safety Program addresses needs related to the public safety function of government. It includes maintenance and construction of public safety facilities and buildings. The Public Works, Community Development, Police, and Fire & Rescue Departments work together to accomplish the goals of this program.

PRIOR YEAR ACCOMPLISHMENTS

Public Safety Facility (P-015)

Site and building design for the Public Safety Facility at 9608 Grant Avenue is underway. The facility will include Police Headquarters, consolidated public safety logistics, 911 Center, Emergency Operations Center, Fire & Rescue Administration, and the IT Department.



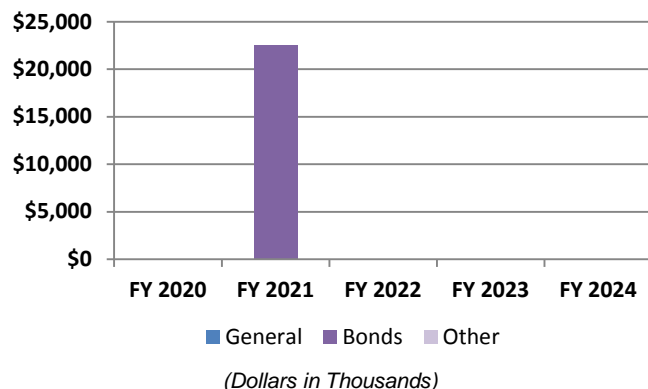
Public Safety Facility

Fire/Rescue Station 21 (P-022)

Completed design of a new combined fire and rescue station at 10306 Dumfries Road to provide enhanced four-minute emergency response times for the southern portion of the City.

THE FIVE-YEAR PLAN (FY 2020 – FY 2024)

The FY 2020 Five-Year Capital Improvement Program (CIP) includes \$22,500,000 in Bonds.



FY 2020 CAPITAL PROJECTS

Public Safety Facility (P-015)

Complete design and begin construction of the new facility.

Fire and Rescue Station #21 (P-022)

Begin construction of the new combined fire and rescue station.



Fire & Rescue Station #21

FY 2020 MAINTENANCE CAPITAL PROJECTS

There are no maintenance capital projects in the Public Safety Program.

NEW CAPITAL PROJECTS

There are no new projects proposed for the Public Safety program.

SUMMARY OF PUBLIC SAFETY CAPITAL PROJECTS

(\$ in Thousands)

| Cost Estimates: | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|------------------------|------------------------|----------------|----------------|----------------|----------------|----------------|---------------|--------------------------|-----------------------|
| Planning | 1,066 | - | - | - | - | - | 65 | 1,131 | - |
| Land | 4,800 | - | - | - | - | - | 3,000 | 7,800 | - |
| Construction | 34,985 | - | 22,500 | - | - | - | 14,435 | 71,920 | 22,500 |
| Total Cost | 40,851 | - | 22,500 | - | - | - | 17,500 | 80,851 | 22,500 |

Funding Sources:

| | | | | | | | | | |
|----------------------|---------------|----------|---------------|----------|----------|----------|---------------|---------------|---------------|
| General Fund | 2,731 | - | - | - | - | - | - | 2,731 | - |
| Sewer Fund | - | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - | - |
| Bonds | 37,500 | - | 22,500 | - | - | - | 17,500 | 77,500 | 22,500 |
| State | - | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - | - |
| Other Sources | 620 | - | - | - | - | - | - | 620 | - |
| Total Funding | 40,851 | - | 22,500 | - | - | - | 17,500 | 80,851 | 22,500 |

Operating Impacts:

| | | | | | | | | | |
|--------------------------|----------|----------|----------|----------------|----------------|----------------|-----------------|-----------------|----------------|
| Revenue | - | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - | - |
| Program (Costs) Saving | - | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | (1,744) | (1,744) | (1,744) | (56,773) | (62,005) | (5,232) |
| Net Revenue | - | - | - | (1,744) | (1,744) | (1,744) | (56,773) | (62,005) | (5,232) |

PUBLIC SAFETY CAPITAL PROJECT LISTING

(\$ in Thousands)

| Project Name | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|------------------------|----------------|----------|---------------|----------|----------|----------|---------------|------------------|---------------|
| Public Safety Facility | 26,685 | - | 22,500 | - | - | - | - | 49,185 | 22,500 |
| Fire/Rescue Station 21 | 14,166 | - | - | - | - | - | - | 14,166 | - |
| Fire/Rescue Station 1 | - | - | - | - | - | - | 17,500 | 17,500 | - |
| Total | 40,851 | - | 22,500 | - | - | - | 17,500 | 80,851 | 22,500 |

P-015 Public Safety Facility

Year Introduced: 2013

Change: Increased Estimate

Associated Proj: T-021

Program Area: Public Safety

Managing Dept: Police

Manager: D. Keen

Plan Conformance:

Comprehensive Plan 7.3

Est. Start: 12/11/2012

Est. Complete: 6/30/2021



Description:

Construct a new facility (approx. 68,000 sq. ft.) at 9608 Grant Avenue consisting of Police Headquarters, consolidated Public Safety logistics, 911 Center, Emergency Operations Center, Fire & Rescue Administration, and the IT Department.

Status: Design

Estimated Construction Start: Summer 2020

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 1,066 | - | - | - | - | - | - | 1,066 |
| Land | 3,200 | - | - | - | - | - | - | 3,200 |
| Construction | 22,419 | - | 22,500 | - | - | - | - | 44,919 |
| Total Cost | 26,685 | - | 22,500 | - | - | - | - | 49,185 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|---------------|---|---------------|---|---|---|---|---------------|
| General Fund | 165 | - | - | - | - | - | - | 165 |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | 26,000 | - | 22,500 | - | - | - | - | 48,500 |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | 520 | - | - | - | - | - | - | 520 |
| Total Funding | 26,685 | - | 22,500 | - | - | - | - | 49,185 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------------|----------------|----------------|-----------------|-----------------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | (1,744) | (1,744) | (1,744) | (29,648) | (34,880) |
| Net Revenue | - | - | - | (1,744) | (1,744) | (1,744) | (29,648) | (34,880) |

P-022 Fire/Rescue Station 21

Year Introduced: 2016

Change: Timeline

Associated Proj: T-058

Program Area: Public Safety

Managing Dept: Fire and Rescue

Manager: R. Clemons

Plan Conformance:

Comprehensive Plan 7.3

Est. Start: 7/1/2015

Est. Complete: 12/31/2020



Description:

Construct a new combined Fire and Rescue station (approx. 18,000-20,000 sq. ft.) at 10306 Dumfries Road to provide enhanced four-minute emergency response times for the southern portion of the City. Project bids and contractor selection expected in Spring 2019.

Status: Design

Estimated Construction Start: Summer 2019

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | 1,600 | - | - | - | - | - | - | 1,600 |
| Construction | 12,566 | - | - | - | - | - | - | 12,566 |
| Total Cost | 14,166 | - | - | - | - | - | - | 14,166 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|---------------|---|---|---|---|---|---|---------------|
| General Fund | 2,566 | - | - | - | - | - | - | 2,566 |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | 11,500 | - | - | - | - | - | - | 11,500 |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | 100 | - | - | - | - | - | - | 100 |
| Total Funding | 14,166 | - | - | - | - | - | - | 14,166 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

P-023 Fire/Rescue Station 1

Year Introduced: 2016
Change: Increased Estimate
Associated Proj: N/A
Program Area: Public Safety
Managing Dept: Fire and Rescue
Manager: R. Clemons
Plan Conformance:
 Comprehensive Plan 7.3

Est. Start:
Est. Complete:



Description:

Replacement of the existing outdated Fire Station. A site location and space needs study will be conducted prior to proceeding with site selection and design.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------------|
| Planning | - | - | - | - | - | - | 65 | 65 |
| Land | - | - | - | - | - | - | 3,000 | 3,000 |
| Construction | - | - | - | - | - | - | 14,435 | 14,435 |
| Total Cost | - | - | - | - | - | - | 17,500 | 17,500 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | 17,500 | 17,500 |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | - | 17,500 | 17,500 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | (27,125) | (27,125) |
| Net Revenue | - | - | - | - | - | - | (27,125) | (27,125) |

TRANSPORTATION PROGRAM

The Transportation Program is administered by the Public Works Department and Engineering Department with planning assistance from the Community Development Department. Staff plan and construct transportation projects that improve city owned and maintained roads and add traffic signalization and coordination where warranted. The transportation capital plan additionally includes multi-modal projects such as bike paths and sidewalks and regional studies that promote transportation throughout the region.

PRIOR YEAR ACCOMPLISHMENTS

Prince William Street (T-019)

Construction of Prince William Street is underway and will be substantially complete by Summer 2019.

Citywide Traffic Signal Optimization (T-064)

New signal equipment and software was purchased and the new signal timing recommendations from the City's Transportation Master Plan will be implemented by Summer 2019.

Bike and Pedestrian Projects

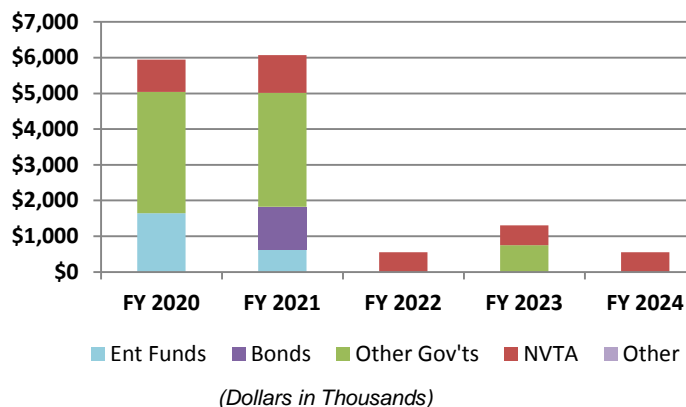
Added bike lanes on Cloverhill Road and Euclid Avenue (T-066, bike lanes upgraded after street resurfacing); Completed Portner Avenue and Breeden Avenue Sidewalk Infill (T-058).

THE FIVE-YEAR PLAN (FY 2020 – FY 2024)

The FY 2020 Five-Year Capital Improvement Program (CIP) includes:

- \$2,270,000 Enterprise Fund Contributions
- \$1,200,000 Bonds
- \$7,342,000 State and Federal Aid
- \$3,600,000 NVT A 30% Funding

FY 2020 funding consists of a \$1,645,000 transfer from Enterprise Funds (Sewer, Water and Electric Funds); \$3,400,000 funding from State and Federal Aid; and \$900,000 in NVT A 30% Funds.



FY 2020 CAPITAL PROJECTS

FY 2020 continues the focus on construction and design of existing projects. Major projects under design include:

- Sudley Road 3rd Lane (T-015)
- Grant Avenue (T-021)
- Dean Drive Extended (T-030)
- Godwin Drive Bike Trail (T-059)
- Centerville Road Improvements (T-074)



Grant Avenue Concept Plan

Roundabout Sudley/Centreville (T-085)

Complete the feasibility study to design and construct a two-lane roundabout at the intersection of Centreville Road and Sudley Road. The study will evaluate if sufficient right-of-way, traffic volumes, cost, and constructability support a roundabout at this location as recommended by the adopted Mathis Avenue Sector Plan.

FY 2020 MAINTENANCE CAPITAL PROJECTS

Maintenance capital projects in the Transportation Program include Traffic Signal Coordination and Upgrades (T-064) and Supplemental Street Paving (T-066) efforts to address resurfacing needs throughout the City. It is estimated the 16.1 lane miles will be resurfaced in FY 2020

NEW CAPITAL PROJECTS

Mathis Avenue Improvements (T-086).

SUMMARY OF TRANSPORTATION CAPITAL PROJECTS

(\$ in Thousands)

| Cost Estimates: | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|------------------------|------------------------|----------------|----------------|----------------|----------------|----------------|---------------|--------------------------|-----------------------|
| Planning | 4,627 | 600 | 966 | - | 50 | - | 1,080 | 7,323 | 1,616 |
| Land | 2,743 | 350 | 211 | - | - | - | 2,230 | 5,534 | 561 |
| Construction | 37,931 | 4,995 | 4,890 | 550 | 1,250 | 550 | 13,310 | 63,476 | 12,235 |
| Total Cost | 45,301 | 5,945 | 6,067 | 550 | 1,300 | 550 | 16,620 | 76,333 | 14,412 |

Funding Sources:

| | | | | | | | | | |
|----------------------|---------------|--------------|--------------|------------|--------------|------------|---------------|---------------|---------------|
| General Fund | 816 | - | - | - | - | - | - | 816 | - |
| Sewer Fund | 1,500 | 150 | 25 | - | - | - | 980 | 2,655 | 175 |
| Water Fund | 2,430 | 895 | 150 | - | - | - | 1,690 | 5,165 | 1,045 |
| Electric Fund | 2,206 | 600 | 450 | - | - | - | 1,050 | 4,306 | 1,050 |
| Stormwater Fund | - | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - | - |
| School Fund | 33 | - | - | - | - | - | - | 33 | - |
| Bonds | 6,488 | - | 1,200 | - | - | - | 6,500 | 14,188 | 1,200 |
| State | 14,519 | - | - | - | 150 | - | - | 14,669 | 150 |
| Federal | 5,391 | 3,400 | 3,192 | - | 600 | - | 3,300 | 15,883 | 7,192 |
| NVTA | 11,012 | 900 | 1,050 | 550 | 550 | 550 | 3,100 | 17,712 | 3,600 |
| Other Sources | 906 | - | - | - | - | - | - | 906 | - |
| Total Funding | 45,301 | 5,945 | 6,067 | 550 | 1,300 | 550 | 16,620 | 76,333 | 14,412 |

Operating Impacts:

| | | | | | | | | | |
|--------------------------|----------|--------------|--------------|--------------|--------------|--------------|-----------------|-----------------|----------------|
| Revenue | - | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - | - |
| Program (Costs) Saving | - | - | - | - | - | - | - | - | - |
| Debt Service | - | (298) | (298) | (391) | (391) | (391) | (16,126) | (17,895) | (1,769) |
| Net Revenue | - | (298) | (298) | (391) | (391) | (391) | (16,126) | (17,895) | (1,769) |

TRANSPORTATION CAPITAL PROJECT LISTING

(\$ in Thousands)

| Project Name | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|-----------------------------|----------------|--------------|--------------|------------|--------------|------------|---------------|------------------|---------------|
| Sudley Road Third Lane | 7,400 | - | - | - | - | - | - | 7,400 | - |
| Land Acquisition (Downt | - | - | - | - | - | - | 1,200 | 1,200 | - |
| Prince William Street (Gr | 9,740 | - | - | - | - | - | - | 9,740 | - |
| Grant Avenue (Lee Aven | 6,496 | 1,445 | 250 | - | - | - | - | 8,191 | 1,695 |
| Dean Drive Extended (E | 3,654 | - | - | - | - | - | - | 3,654 | - |
| Dean Drive (Animal Shel | - | - | - | - | - | - | 6,920 | 6,920 | - |
| Route 28 / Nokesville Ro | 11,681 | - | - | - | - | - | - | 11,681 | - |
| Liberia Avenue Improve | - | - | 500 | - | - | - | - | 500 | 500 |
| Stonewall Park Trail Exte | - | - | - | - | - | - | 2,000 | 2,000 | - |
| Sidewalk & Bicycle Infill I | 1,732 | 700 | 500 | 300 | 300 | 300 | - | 3,832 | 2,100 |
| Godwin Drive Bike Trail | 1,653 | - | - | - | - | - | - | 1,653 | - |
| Commercial Corridor Str | 250 | 250 | 1,625 | 250 | 250 | 250 | - | 2,875 | 2,625 |
| Centreville Road Improv | 300 | 150 | - | - | - | - | - | 450 | 150 |
| Fairview Avenue / Tudor | 1,130 | - | - | - | - | - | - | 1,130 | - |
| North Side Downtown P | - | - | - | - | - | - | 6,500 | 6,500 | - |
| Traffic Signal Span Wire | - | - | - | - | 750 | - | - | 750 | 750 |
| Wakeman Drive Bike La | 500 | - | - | - | - | - | - | 500 | - |
| Gateway Boulevard Side | 340 | - | - | - | - | - | - | 340 | - |
| Roundabout Sudley/Cen | 425 | 3,400 | - | - | - | - | - | 3,825 | 3,400 |
| Mathis Avenue Improve | - | - | 3,192 | - | - | - | - | 3,192 | 3,192 |
| Quarry Streetscape Impr | - | - | - | - | - | - | - | - | - |
| Total | 45,301 | 5,945 | 6,067 | 550 | 1,300 | 550 | 16,620 | 76,333 | 14,412 |

T-015 Sudley Road Third Lane

Year Introduced: 2000

Change: No change

Associated Proj: N/A

Program Area: Transportation

Managing Dept: Engineering

Manager: M. Brickner

Plan Conformance:

Comprehensive Plan 6.3

Est. Start: 7/1/2017

Est. Complete: 6/30/2021



Description:

Install a northbound third lane on Sudley Road with curb, gutter, sidewalk, and drainage from Grant Avenue to Godwin Drive. The new lane and sidewalk will tie to the existing third lane and sidewalk in Prince William County past Godwin Drive and improve traffic flow and pedestrian access.

Status: Design

Estimated Construction Start: Fall 2020

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 440 | - | - | - | - | - | - | 440 |
| Land | - | - | - | - | - | - | - | - |
| Construction | 6,960 | - | - | - | - | - | - | 6,960 |
| Total Cost | 7,400 | - | - | - | - | - | - | 7,400 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|--------------|---|---|---|---|---|---|--------------|
| General Fund | 40 | - | - | - | - | - | - | 40 |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | 7,360 | - | - | - | - | - | - | 7,360 |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 7,400 | - | - | - | - | - | - | 7,400 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

T-018 Land Acquisition (Downtown Parking Lot)

Year Introduced: 2000
Change: No change
Associated Proj: N/A
Program Area: Transportation
Managing Dept: Public Works
Manager: B. Foster
Plan Conformance:
 Comprehensive Plan 6.2

Est. Start:
Est. Complete:



Description:

Purchase a privately owned parking lot to increase available parking for visitors to the downtown area. Cost to be determined at the time of purchase. The current lease on the Train Depot lot expires on August 1, 2019.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | 1,200 | 1,200 |
| Construction | - | - | - | - | - | - | - | - |
| Total Cost | - | - | - | - | - | - | 1,200 | 1,200 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | 1,200 | 1,200 |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | - | 1,200 | 1,200 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

T-019 Prince William Street (Grant Avenue to Wellington Road)

Year Introduced: 2000

Change: No change

Associated Proj: N/A

Program Area: Transportation

Managing Dept: Engineering

Manager: M. Brickner

Plan Conformance:

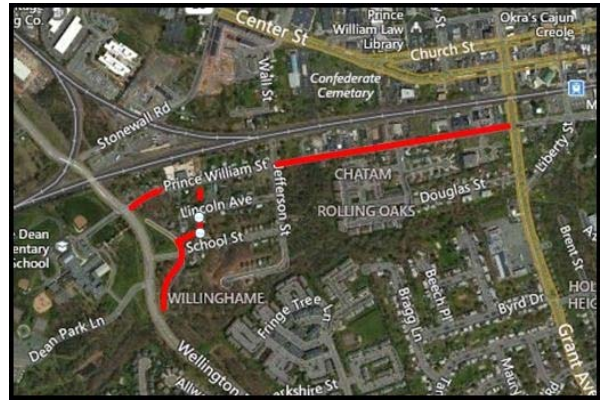
Comprehensive Plan 6.3

Comprehensive Plan 7.7

Old Town Sector Plan

Est. Start: 12/1/2000

Est. Complete: 12/31/2019



Description:

Widen Prince William Street and install curb, gutter, sidewalk, bike lanes, and storm drainage. This will improve safety, traffic flow, and drainage problems.

Status: Construction

Construction Start: Winter 2017

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 363 | - | - | - | - | - | - | 363 |
| Land | 1,671 | - | - | - | - | - | - | 1,671 |
| Construction | 7,706 | - | - | - | - | - | - | 7,706 |
| Total Cost | 9,740 | - | - | - | - | - | - | 9,740 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|--------------|---|---|---|---|---|---|--------------|
| General Fund | 209 | - | - | - | - | - | - | 209 |
| Sewer Fund | 950 | - | - | - | - | - | - | 950 |
| Water Fund | 1,710 | - | - | - | - | - | - | 1,710 |
| Electric Fund | 991 | - | - | - | - | - | - | 991 |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | 2,130 | - | - | - | - | - | - | 2,130 |
| State | 2,091 | - | - | - | - | - | - | 2,091 |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | 1,659 | - | - | - | - | - | - | 1,659 |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 9,740 | - | - | - | - | - | - | 9,740 |

Operating Impacts: (\$ in 1,000s)

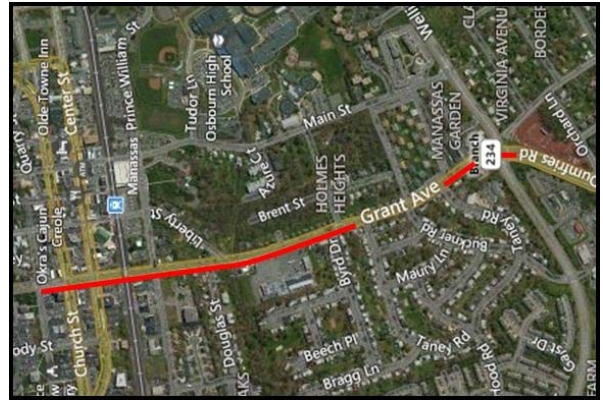
| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

T-021 Grant Avenue (Lee Avenue to Wellington Road)

Year Introduced: 2000
Change: Increased Estimate
Associated Proj: P-015
Program Area: Transportation
Managing Dept: Engineering
Manager: M. Brickner

Plan Conformance:
 Comprehensive Plan 6.2
 Old Town Sector Plan

Est. Start: 12/1/2015
Est. Complete: 6/30/2021



Description:

Reconstruct Grant Avenue between Lee Avenue and Wellington Road as a 2-lane facility with dedicated turn lanes and median control within the existing right-of-way. The project will add utility, pedestrian, and streetscape improvements and a shared use path from Wellington Road to Prince William Street. The increased estimate reflects additional electric improvements funded in FY21.

Status: Design

Estimated Construction Start: Spring 2020

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 750 | - | - | - | - | - | - | 750 |
| Land | - | - | - | - | - | - | - | - |
| Construction | 5,746 | 1,445 | 250 | - | - | - | - | 7,441 |
| Total Cost | 6,496 | 1,445 | 250 | - | - | - | - | 8,191 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|--------------|--------------|------------|----------|----------|----------|----------|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | 530 | 150 | - | - | - | - | - | 680 |
| Water Fund | 640 | 895 | - | - | - | - | - | 1,535 |
| Electric Fund | 300 | 400 | 250 | - | - | - | - | 950 |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | 4,000 | - | - | - | - | - | - | 4,000 |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | 900 | - | - | - | - | - | - | 900 |
| Other Sources | 126 | - | - | - | - | - | - | 126 |
| Total Funding | 6,496 | 1,445 | 250 | - | - | - | - | 8,191 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|--------------|--------------|--------------|--------------|--------------|----------------|----------------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | (298) | (298) | (298) | (298) | (298) | (4,470) | (5,960) |
| Net Revenue | - | (298) | (298) | (298) | (298) | (298) | (4,470) | (5,960) |

T-030 Dean Drive Extended (Existing Cul-de-sac to Animal Shelter

Year Introduced: 2001

Change: No change

Associated Proj: W-050

Program Area: Transportation

Managing Dept: Engineering

Manager: M. Brickner

Plan Conformance:

Comprehensive Plan 6.3

Comprehensive Plan 7.7

Est. Start: 9/1/2015

Est. Complete: 12/31/2020



Description:

Extend and improve Dean Drive by installing curb, gutter, sidewalk, bike lanes, and drainage. This will improve access and provide economic development stimulus for industrial property along Dean Drive. It will also improve drainage at the intersection of Foster Drive and Dean Drive.

Status: Design

Estimated Construction Start: Spring 2020

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 450 | - | - | - | - | - | - | 450 |
| Land | 110 | - | - | - | - | - | - | 110 |
| Construction | 3,094 | - | - | - | - | - | - | 3,094 |
| Total Cost | 3,654 | - | - | - | - | - | - | 3,654 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|--------------|---|---|---|---|---|---|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | 20 | - | - | - | - | - | - | 20 |
| Water Fund | 80 | - | - | - | - | - | - | 80 |
| Electric Fund | 135 | - | - | - | - | - | - | 135 |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | 1,231 | - | - | - | - | - | - | 1,231 |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | 1,993 | - | - | - | - | - | - | 1,993 |
| Other Sources | 195 | - | - | - | - | - | - | 195 |
| Total Funding | 3,654 | - | - | - | - | - | - | 3,654 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

T-039 Dean Drive (Animal Shelter to Wellington Road)

Year Introduced: 2004

Change: Funding Source

Associated Proj: N/A

Program Area: Transportation

Managing Dept: Engineering

Manager: M. Brickner

Plan Conformance:

Comprehensive Plan 6.3

Est. Start:
Est. Complete:



Description:

Widen Dean Drive from the existing animal shelter to Wellington Road and add curb, gutter, sidewalk, and bike lanes. Extend Technology Drive from existing cul-de-sac to connect with Dean Drive. Federal (RSTP) funding will be sought to fund this project in addition to NVTAs 30% funding.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | 520 | 520 |
| Land | - | - | - | - | - | - | 1,010 | 1,010 |
| Construction | - | - | - | - | - | - | 5,390 | 5,390 |
| Total Cost | - | - | - | - | - | - | 6,920 | 6,920 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | 980 | 980 |
| Water Fund | - | - | - | - | - | - | 1,690 | 1,690 |
| Electric Fund | - | - | - | - | - | - | 1,050 | 1,050 |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | 1,600 | 1,600 |
| NVTA | - | - | - | - | - | - | 1,600 | 1,600 |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | - | 6,920 | 6,920 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

T-042 Route 28 / Nokesville Road Widening

Year Introduced: 2004

Change: No change

Associated Proj: W-042

Program Area: Transportation

Managing Dept: Engineering

Manager: M. Brickner

Plan Conformance:

Comprehensive Plan 6.1

Est. Start: 3/1/2013

Est. Complete: 12/31/2020



Description:

Widen Route 28/Nokesville Road to 6 lanes and install a dual left turn lane from northbound Route 28 onto Godwin Drive. The project will also install streetlights on Route 28 from the 234 Bypass to the southern City limits and a shared use path along the north side of Route 28.

Status: Construction

Estimated Construction Start: Fall 2019

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 1,865 | - | - | - | - | - | - | 1,865 |
| Land | 832 | - | - | - | - | - | - | 832 |
| Construction | 8,984 | - | - | - | - | - | - | 8,984 |
| Total Cost | 11,681 | - | - | - | - | - | - | 11,681 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|---------------|---|---|---|---|---|---|---------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | 358 | - | - | - | - | - | - | 358 |
| State | 2,638 | - | - | - | - | - | - | 2,638 |
| Federal | 5,391 | - | - | - | - | - | - | 5,391 |
| NVTA | 3,294 | - | - | - | - | - | - | 3,294 |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 11,681 | - | - | - | - | - | - | 11,681 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

T-046 Liberia Avenue Improvements

Year Introduced: 2006

Change: No change

Associated Proj: T-064

Program Area: Transportation

Managing Dept: Engineering

Manager: M. Brickner

Plan Conformance:

Comprehensive Plan 6.3

Est. Start: 7/1/2016

Est. Complete: 6/30/2022



Description:

Analyze Liberia Avenue from Wellington Road to Centreville Road to identify cost effective solutions for safety improvements and congestion relief. The analysis lead to recommendations for signal optimization (T-64) and funding in FY21 to conduct a preliminary engineering analysis for possible widening from four lanes to six lanes from Centreville Road to Quarry Road, including right-of-way needs and bridge improvement options.

Status: Planning

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | 500 | - | - | - | - | 500 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | - | - | - | - |
| Total Cost | - | - | 500 | - | - | - | - | 500 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | 500 | - | - | - | - | 500 |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | 500 | - | - | - | - | 500 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

T-052 Stonewall Park Trail Extension

Year Introduced: 2007

Change: Funding Source

Associated Proj: C-029

Program Area: Transportation

Managing Dept: Community Development

Manager: L. Via-Gossman

Plan Conformance:

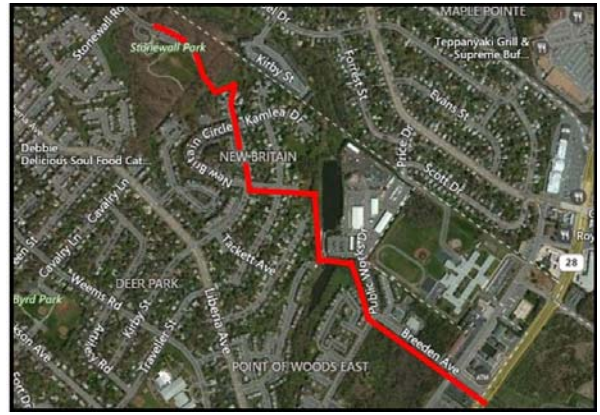
Comprehensive Plan 6.2

Comprehensive Plan 9.1

Bike & Ped. Master Plan

Est. Start:

Est. Complete:



Description:

Construct an extension to the existing Stonewall Park Trail to connect to the Liberia House historic site in accordance with the Bikeway and Pedestrian Master Plan. Federal (RSTP) funding will be sought to fund Phase I of this project in FY25-26. Phase I consists of the construction of an off-street shared use path from Vicksburg Lane to Portner Avenue including a pedestrian bridge over the causeway at the Public Works complex.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | 420 | 420 |
| Land | - | - | - | - | - | - | 20 | 20 |
| Construction | - | - | - | - | - | - | 1,560 | 1,560 |
| Total Cost | - | - | - | - | - | - | 2,000 | 2,000 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|---|---|---|---|---|---|--------------|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | 1,700 | 1,700 |
| NVTA | - | - | - | - | - | - | 300 | 300 |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | - | 2,000 | 2,000 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

T-058 Sidewalk & Bicycle Infill Initiative

Year Introduced: 2011

Change: Increased Estimate

Associated Proj: P-022

Program Area: Transportation

Managing Dept: Engineering

Manager: M. Brickner

Plan Conformance:

Comprehensive Plan 6.2

Comprehensive Plan 9.1

Bike & Ped. Master Plan

Est. Start: 4/1/2014

Est. Complete: 6/30/2024



Description:

Citywide installation of trails, sidewalks, and bike facilities or other pedestrian and bicycle improvements.

•FY20 - Complete FY18 and FY19 projects: Portner Avenue from Sudley Road to Longstreet Drive, Quarry Street from the Messenger Place development to Main Street, and Dumfries Road from Hastings Drive to Donner Drive/Milic Street (shared use path and sidewalk). Additional NVTA funding is included for design costs.

•FY21 - Projects to be determined based on the Transportation Master Plan recommendations.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 17 | 200 | - | - | - | - | - | 217 |
| Land | - | - | - | - | - | - | - | - |
| Construction | 1,715 | 500 | 500 | 300 | 300 | 300 | - | 3,615 |
| Total Cost | 1,732 | 700 | 500 | 300 | 300 | 300 | - | 3,832 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|--------------|------------|------------|------------|------------|------------|----------|--------------|
| General Fund | 67 | - | - | - | - | - | - | 67 |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | 200 | 200 | - | - | - | - | 400 |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | 446 | - | - | - | - | - | - | 446 |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | 1,091 | 500 | 300 | 300 | 300 | 300 | - | 2,791 |
| Other Sources | 128 | - | - | - | - | - | - | 128 |
| Total Funding | 1,732 | 700 | 500 | 300 | 300 | 300 | - | 3,832 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

T-059 Godwin Drive Bike Trail

Year Introduced: 2011

Change: No change

Associated Proj: C-037

Program Area: Transportation

Managing Dept: Engineering

Manager: M. Brickner

Plan Conformance:

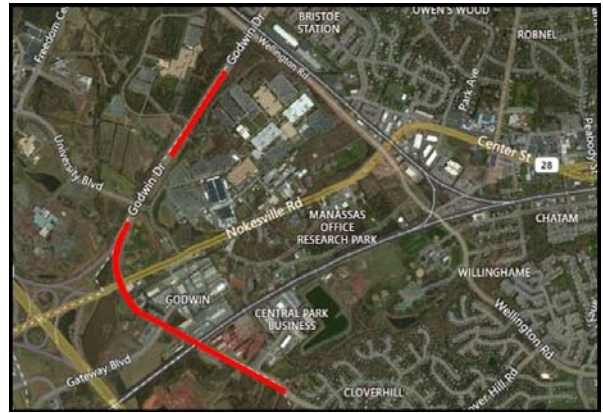
Comprehensive Plan 6.2

Comprehensive Plan 9.1

Bike & Ped. Master Plan

Est. Start: 7/1/2017

Est. Complete: 12/31/2019



Description:

Add a shared use path along Godwin Drive from Wellington Road to Hastings Drive. This project may include right-of-way acquisition and/or shoulder construction along Godwin Drive. A state revenue sharing application was approved in FY19 to fund this project.

Status: Design

Estimated Construction Start: Fall 2019

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 177 | - | - | - | - | - | - | 177 |
| Land | 75 | - | - | - | - | - | - | 75 |
| Construction | 1,401 | - | - | - | - | - | - | 1,401 |
| Total Cost | 1,653 | - | - | - | - | - | - | 1,653 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|--------------|---|---|---|---|---|---|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | 753 | - | - | - | - | - | - | 753 |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | 900 | - | - | - | - | - | - | 900 |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 1,653 | - | - | - | - | - | - | 1,653 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

T-070 Commercial Corridor Streetscapes

Year Introduced: 2019

Change: No change

Associated Proj: T-086

Program Area: Transportation

Managing Dept: Community Development

Manager: L. Via-Gossman

Plan Conformance:

Mathis Avenue Sector Plan

Old Town Sector Plan

Est. Start: 7/1/2018

Est. Complete: 6/30/2024



Description:

Commercial Corridor Streetscape Enhancements. Plan, design, and construct streetscape enhancements within the Route 28, Mathis Avenue, and Sudley Road commercial corridors as well as within the Historic Downtown.

- FY20 and FY21 projects include funding for streetscape improvements to West Street, the sidewalk between City Hall and Main Street, and other projects identified based on the recommendations of the Transportation Master Plan.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 100 | 100 | 100 | - | - | - | - | 300 |
| Land | - | - | - | - | - | - | - | - |
| Construction | 150 | 150 | 1,525 | 250 | 250 | 250 | - | 2,575 |
| Total Cost | 250 | 250 | 1,625 | 250 | 250 | 250 | - | 2,875 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|------------|------------|--------------|------------|------------|------------|----------|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | 25 | - | - | - | - | 25 |
| Water Fund | - | - | 150 | - | - | - | - | 150 |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | 1,200 | - | - | - | - | 1,200 |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | 250 | 250 | 250 | 250 | 250 | 250 | - | 1,500 |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 250 | 250 | 1,625 | 250 | 250 | 250 | - | 2,875 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|-------------|-------------|-------------|----------------|----------------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | (93) | (93) | (93) | (1,581) | (1,860) |
| Net Revenue | - | - | - | (93) | (93) | (93) | (1,581) | (1,860) |

T-074 Centreville Road Improvements

Year Introduced: 2015

Change: Increased Estimate

Associated Proj: N/A

Program Area: Transportation

Managing Dept: Engineering

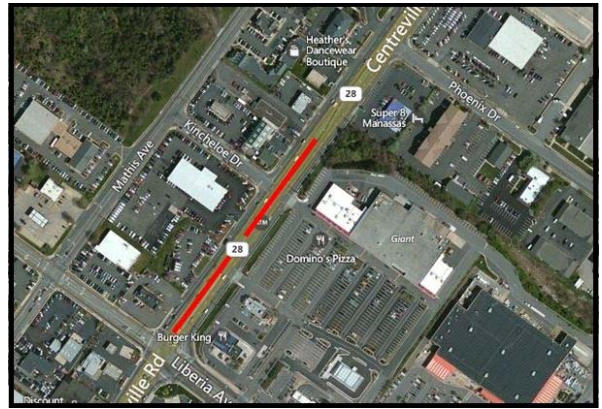
Manager: M. Brickner

Plan Conformance:

Comprehensive Plan 6.3

Est. Start: 12/1/2015

Est. Complete: 6/30/2020



Description:

Add dual left turn lanes on Centreville Road at Liberia Avenue, restripe the northbound lane on Route 28 between Liberia Avenue and Manassas Drive to create a combined northbound through/right turn lane, and make pedestrian improvements to the intersection. Additional NVTa funding is included for design costs.

Status: Design

Estimated Construction Start: Fall 2019

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 40 | 150 | - | - | - | - | - | 190 |
| Land | - | - | - | - | - | - | - | - |
| Construction | 260 | - | - | - | - | - | - | 260 |
| Total Cost | 300 | 150 | - | - | - | - | - | 450 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|------------|------------|---|---|---|---|---|------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTa | 300 | 150 | - | - | - | - | - | 450 |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 300 | 150 | - | - | - | - | - | 450 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

T-075 Fairview Avenue / Tudor Lane Signal Project

Year Introduced: 2016
Change: Timeline
Associated Proj: N/A
Program Area: Transportation
Managing Dept: Engineering
Manager: M. Brickner

Plan Conformance:
 Comprehensive Plan 6.3
Est. Start: 7/1/2016
Est. Complete: 12/31/2024



Description:

Signalize the intersection of Tudor Lane and Fairview Avenue. Undergrounding of utilities and historic streetlight installation is complete. A signal warrant analysis was completed in FY19 after completion of the Manassas Station apartment project that determined the signal may be warranted by 2023.

Status: Construction

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | 55 | - | - | - | - | - | - | 55 |
| Construction | 1,075 | - | - | - | - | - | - | 1,075 |
| Total Cost | 1,130 | - | - | - | - | - | - | 1,130 |

| Funding Sources: (\$ in 1,000s) | | | | | | | | |
|--|--------------|---|---|---|---|---|---|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | 780 | - | - | - | - | - | - | 780 |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | 33 | - | - | - | - | - | - | 33 |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | 200 | - | - | - | - | - | - | 200 |
| Other Sources | 117 | - | - | - | - | - | - | 117 |
| Total Funding | 1,130 | - | - | - | - | - | - | 1,130 |

| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
|--|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

T-077 North Side Downtown Parking Garage

Year Introduced: 2016

Change: No change

Associated Proj: N/A

Program Area: Transportation

Managing Dept: Community Development

Manager: L. Via-Gossman

Plan Conformance:

Old Town Sector Plan

Est. Start:

Est. Complete:



Description:

Planned revitalization of downtown Manassas includes the addition of a parking garage on the northern side of the downtown. A study will be conducted to determine the size and ideal available location of a parking structure.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------------|
| Planning | - | - | - | - | - | - | 140 | 140 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | - | - | 6,360 | 6,360 |
| Total Cost | - | - | - | - | - | - | 6,500 | 6,500 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | 6,500 | 6,500 |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | - | 6,500 | 6,500 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | (10,075) | (10,075) |
| Net Revenue | - | - | - | - | - | - | (10,075) | (10,075) |

T-079 Traffic Signal Span Wire to Mast Arms

Year Introduced: 2016

Change: No change

Associated Proj: N/A

Program Area: Transportation

Managing Dept: Public Works

Manager: B. Foster

Plan Conformance:

Comprehensive Plan 6.3

Est. Start: 7/1/2023
Est. Complete: 6/30/2024



Description:

Upgrade current traffic signal equipment and replace the City's two remaining traffic signals on span wire to poles with mast arms. The signal locations are Dumfries Road at Milic Street/Donner Drive and Godwin Drive at the Lockheed Martin entrance.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | 50 | - | - | 50 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | 700 | - | - | 700 |
| Total Cost | - | - | - | - | 750 | - | - | 750 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | 150 | - | - | 150 |
| Federal | - | - | - | - | 600 | - | - | 600 |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | 750 | - | - | 750 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

T-081 Wakeman Drive Bike Lane

Year Introduced: 2017

Change: Timeline

Associated Proj: T-083

Program Area: Transportation

Managing Dept: Engineering

Manager: M. Brickner

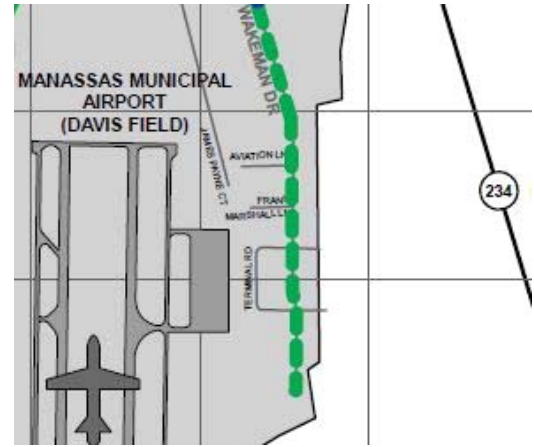
Plan Conformance:

Comprehensive Plan 6.2

Comprehensive Plan 9.1

Est. Start: 7/1/2017

Est. Complete: 12/31/2020



Description:

Construct 6,350 feet of bike lane along both sides of Wakeman Drive from Harry J. Parrish Boulevard to the Gateway Business Park.

Status: Design

Estimated Construction Start: Fall 2019

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | 500 | - | - | - | - | - | - | 500 |
| Total Cost | 500 | - | - | - | - | - | - | 500 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|------------|---|---|---|---|---|---|------------|
| General Fund | 500 | - | - | - | - | - | - | 500 |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 500 | - | - | - | - | - | - | 500 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

T-083 Gateway Boulevard Sidewalk/Trail

Year Introduced: 2018

Change: Timeline

Associated Proj: T-081

Program Area: Transportation

Managing Dept: Engineering

Manager: M. Brickner

Plan Conformance:

Comprehensive Plan 6.2

Comprehensive Plan 9.1

Est. Start: 7/1/2017

Est. Complete: 12/31/2020



Description:

Install a new 10 foot shared use path and upgrade portions of the existing sidewalk with a 10 foot asphalt shared use path along Gateway Boulevard (north side) and Carolina Drive (south side). Upgrade portions of the existing sidewalk along Gateway Boulevard (south side) and Carolina Drive (north side).

Status: Design

Estimated Construction Start: Fall 2019

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | 340 | - | - | - | - | - | - | 340 |
| Total Cost | 340 | - | - | - | - | - | - | 340 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|------------|---|---|---|---|---|---|------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | 340 | - | - | - | - | - | - | 340 |
| Total Funding | 340 | - | - | - | - | - | - | 340 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

T-085 Roundabout Sudley/Centreville

Year Introduced: 2019

Change: No change

Associated Proj: N/A

Program Area: Transportation

Managing Dept: Engineering

Manager: M. Brickner

Plan Conformance:

Mathis Avenue Sector Plan

Comprehensive Plan 6.3

Est. Start: 12/1/2017

Est. Complete: 12/31/2024



Description:

Following a traffic collision, temporary traffic controls have been installed at the intersection. In compliance with the Mathis Sector Plan, the City will evaluate a two-lane roundabout intersection to determine if sufficient right-of-way, traffic volumes, cost, and constructability promote a roundabout at this location. If feasible, federal (RSTP) funding is available to fund this project or a Better Utilizing Investments to Leverage Development (BUILD) grant application may be submitted.

Status: Planning

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 425 | 150 | - | - | - | - | - | 575 |
| Land | - | 350 | - | - | - | - | - | 350 |
| Construction | - | 2,900 | - | - | - | - | - | 2,900 |
| Total Cost | 425 | 3,400 | - | - | - | - | - | 3,825 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|------------|--------------|---|---|---|---|---|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | 3,400 | - | - | - | - | - | 3,400 |
| NVTA | 425 | - | - | - | - | - | - | 425 |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 425 | 3,400 | - | - | - | - | - | 3,825 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

T-086 Mathis Avenue Improvements

COMMERCIAL STREETSCAPE

Year Introduced: 2020
Change: New Project
Associated Proj: T-070
Program Area: Transportation
Managing Dept: Econ Dev
Manager: N. Smith

Plan Conformance:
 Mathis Avenue Sector Plan
 Comprehensive Plan 6.3
Est. Start: 7/1/2020
Est. Complete: 12/31/2021



Description:

Reconstruct Mathis Avenue from Sudley Road to Liberia Avenue as a 2-lane facility with a planted median and dedicated turn lanes within the existing right-of-way. This project includes streetscape and pedestrian improvements. A Better Utilizing Investments to Leverage Development (BUILD) grant application will be submitted to request federal funds to advance the project to construction.

Status: Planning

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | 366 | - | - | - | - | 366 |
| Land | - | - | 211 | - | - | - | - | 211 |
| Construction | - | - | 2,615 | - | - | - | - | 2,615 |
| Total Cost | - | - | 3,192 | - | - | - | - | 3,192 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|---|---|--------------|---|---|---|---|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | 3,192 | - | - | - | - | 3,192 |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | 3,192 | - | - | - | - | 3,192 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

TRANSPORTATION MAINTENANCE CAPITAL PROJECT LISTING

(\$ in Thousands)

The City identifies Capital Projects as projects with a cost greater than \$100,000 **and** a useful life of 10+ years. The City recognizes that there are additional projects/needs that are capital in nature but do not meet the requirement set forth for a capital project. These additional projects/needs are considered Maintenance Capital Projects, a list of which is provided below for the Transportation Program.

| Project Name | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|---------------------------|----------------|------------|------------|------------|------------|------------|----------|------------------|---------------|
| Supplemental Street Pav | 2,157 | 336 | 300 | 300 | 300 | 300 | - | 3,693 | 1,536 |
| Traffic Signal Coordinati | - | 100 | 100 | 100 | 100 | 100 | - | 500 | 500 |
| Total Cost | 2,157 | 436 | 400 | 400 | 400 | 400 | - | 4,193 | 2,036 |

Funding Sources

| | | | | | | | | | |
|----------------------|--------------|------------|------------|------------|------------|------------|----------|--------------|--------------|
| General Fund | 1,545 | 300 | 300 | 300 | 300 | 300 | - | 3,045 | 1,500 |
| Sewer Fund | - | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - | - |
| State | 612 | - | - | - | - | - | - | 612 | - |
| Federal | - | - | - | - | - | - | - | - | - |
| NVTA | - | 100 | 100 | 100 | 100 | 100 | - | 500 | 500 |
| Other Sources | - | 36 | - | - | - | - | - | 36 | 36 |
| Total Funding | 2,157 | 436 | 400 | 400 | 400 | 400 | - | 4,193 | 2,036 |

SEWER PROGRAM

The Sewer Program is administered by the Sewer division of the Utilities Department. The program is designed to achieve five primary strategic objectives:

- 1) Replace and/or rehabilitate aging infrastructure;
- 2) Maintain or increase system reliability;
- 3) Improve system efficiency;
- 4) Address system growth; and
- 5) Regulatory compliance

The sewer utility continues to plan and invest in the future of the city by continuing to evaluate the collection system to effectively prioritize the replacement and rehabilitation programs.



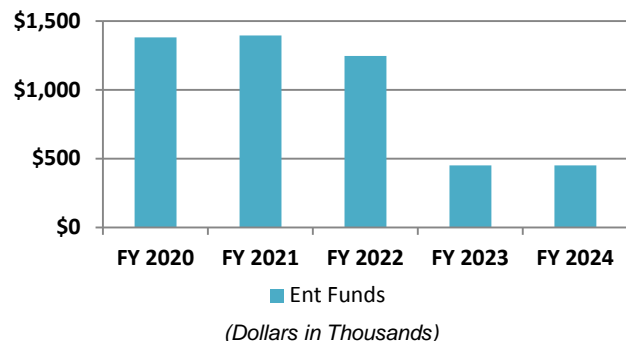
PRIOR YEAR ACCOMPLISHMENTS

Sewer capital improvement efforts have been focused on main replacement in Prince William Street in conjunction with the roadway improvements (T-019), planning and evaluation of the next phases of the Upper Flat Branch interceptor project (S-016), and efforts to improve the Winters Branch sanitary sewer main.

THE FIVE-YEAR PLAN (FY 2020 – FY 2024)

The FY 2020 Five-Year Capital Improvement Program (CIP) includes \$4,920,000 Enterprise Funds (Sewer and Water Funds).

In FY 2020 funding consists of a \$1,160,000 transfer from the Sewer Fund and \$220,000 transfer from the Water Fund.



FY 2020 CAPITAL PROJECTS

Upper Flat Branch Interceptor (S-016)

Planning and funding continues to replace sections of gravity sewer main along the Upper Flat Branch Interceptor.



Upper Flat Branch Interceptor Project

Buckner Road Sewer Main Replacement (S-020)

Install, repair, or replace 625 feet of sewer main along Buckner Road from Maury Lane to Taney Road.

Ellicott Lane Sewer Main Replacement (S-021)

Install, repair, or rehabilitate 770 feet of sewer main in Ellicott Lane from Wesley Ave to Wellington Road.

FY 2020 MAINTENANCE CAPITAL PROJECTS

There are no maintenance capital projects proposed for the Sewer Program.

NEW CAPITAL PROJECTS

There are no new projects proposed for the Sewer Program.

SUMMARY OF SEWER CAPITAL PROJECTS

(\$ in Thousands)

| Cost Estimates: | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|------------------------|------------------------|----------------|----------------|----------------|----------------|----------------|---------------|--------------------------|-----------------------|
| Planning | 427 | 70 | 40 | 50 | - | - | - | 587 | 160 |
| Land | - | - | - | - | - | - | - | - | - |
| Construction | 1,428 | 1,310 | 1,355 | 1,195 | 450 | 450 | - | 6,188 | 4,760 |
| Total Cost | 1,855 | 1,380 | 1,395 | 1,245 | 450 | 450 | - | 6,775 | 4,920 |

Funding Sources:

| | | | | | | | | | |
|----------------------|--------------|--------------|--------------|--------------|------------|------------|----------|--------------|--------------|
| General Fund | - | - | - | - | - | - | - | - | - |
| Sewer Fund | 1,820 | 1,160 | 1,325 | 1,200 | 450 | 450 | - | 6,405 | 4,585 |
| Water Fund | - | 220 | 70 | 45 | - | - | - | 335 | 335 |
| Electric Fund | - | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - | - |
| Other Sources | 35 | - | - | - | - | - | - | 35 | - |
| Total Funding | 1,855 | 1,380 | 1,395 | 1,245 | 450 | 450 | - | 6,775 | 4,920 |

Operating Impacts:

| | | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - | - |
| Program (Costs) Saving | - | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - | - |

SEWER CAPITAL PROJECT LISTING

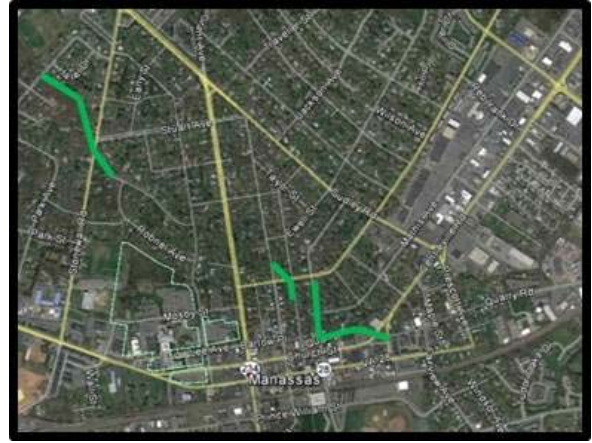
(\$ in Thousands)

| Project Name | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|--------------------------|----------------|--------------|--------------|--------------|------------|------------|----------|------------------|---------------|
| Upper Flat Branch Interc | 1,770 | 1,210 | 435 | - | - | - | - | 3,415 | 1,645 |
| Buckner Road Sewer Ma | - | 60 | 520 | 645 | - | - | - | 1,225 | 1,225 |
| Ellicott Lane Sewer Main | 85 | 100 | 400 | - | - | - | - | 585 | 500 |
| Sewer Main Replaceme | - | 10 | 40 | 600 | 450 | 450 | - | 1,550 | 1,550 |
| Total | 1,855 | 1,380 | 1,395 | 1,245 | 450 | 450 | - | 6,775 | 4,920 |

S-016 Upper Flat Branch Interceptor Replacement

Year Introduced: 2009
Change: Increased Estimate
Associated Proj: D-021
Program Area: Sewer
Managing Dept: Utilities
Manager: T. Dawood

Plan Conformance:
 Comprehensive Plan 7.7
Est. Start: 7/1/2010
Est. Complete: 6/30/2023



Description:

Replace sections of gravity sewer main along the Upper Flat Branch Interceptor which is currently deficient in capacity. Undersized sanitary sewer will be upsized to meet current standards, future growth, and preclude overflows.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 342 | - | - | - | - | - | - | 342 |
| Land | - | - | - | - | - | - | - | - |
| Construction | 1,428 | 1,210 | 435 | - | - | - | - | 3,073 |
| Total Cost | 1,770 | 1,210 | 435 | - | - | - | - | 3,415 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|--------------|--------------|------------|---|---|---|---|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | 1,735 | 1,000 | 435 | - | - | - | - | 3,170 |
| Water Fund | - | 210 | - | - | - | - | - | 210 |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | 35 | - | - | - | - | - | - | 35 |
| Total Funding | 1,770 | 1,210 | 435 | - | - | - | - | 3,415 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

S-020 Buckner Road Sewer Main Replacement

Year Introduced: 2016

Change: Timeline

Associated Proj: N/A

Program Area: Sewer

Managing Dept: Utilities

Manager: T. Dawood

Plan Conformance:

Comprehensive Plan 7.7

Est. Start: 7/1/2020

Est. Complete: 6/30/2022



Description:

Install, repair, or replace the sewer and water main along Buckner Road from Maury Lane to Taney Road. This project will require the replacement of approximately 625 feet of sewer main and 50 laterals, which will increase reliability of service by reducing blockages and defects. Pipe material has outlasted its recommended life span.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | 60 | - | - | - | - | - | 60 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | 520 | 645 | - | - | - | - |
| Total Cost | - | 60 | 520 | 645 | - | - | - | 1,225 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|---|-----------|------------|------------|---|---|---|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | 50 | 450 | 600 | - | - | - | 1,100 |
| Water Fund | - | 10 | 70 | 45 | - | - | - | 125 |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | 60 | 520 | 645 | - | - | - | 1,225 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

S-021 Ellicott Lane Sewer Main Replacement

Year Introduced: 2016

Change: Timeline

Associated Proj: N/A

Program Area: Sewer

Managing Dept: Utilities

Manager: T. Dawood

Plan Conformance:

Comprehensive Plan 7.7

Est. Start: 7/1/2019

Est. Complete: 6/30/2021



Description:

Install, repair, or rehabilitate the sewer main in Ellicott Lane from Wesley Avenue to Wellington Road. This project will require the replacement of approximately 770 feet of sewer main and 13 laterals, which will increase reliability of service by reducing blockages and defects. Pipe material has outlasted its recommended life span.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 85 | - | - | - | - | - | - | 85 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | 100 | 400 | - | - | - | - | 500 |
| Total Cost | 85 | 100 | 400 | - | - | - | - | 585 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|-----------|------------|------------|----------|----------|----------|----------|------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | 85 | 100 | 400 | - | - | - | - | 585 |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 85 | 100 | 400 | - | - | - | - | 585 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

S-023 Sewer Main Replacement

Year Introduced: 2018
Change: No change
Associated Proj: N/A
Program Area: Sewer
Managing Dept: Utilities
Manager: T. Dawood
Plan Conformance:
 Comprehensive Plan 7.7

Est. Start:
Est. Complete:



Description:

Open-cut replacement of sewer mains that are beyond available service life and cannot be lined.
 FY22: Parts of Beauregard Avenue, Madison Avenue, and Nelson Lane
 FY23 & FY24: Parts of Maple Street, Peabody Street, and Robson Avenue

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | 10 | 40 | 50 | - | - | - | 100 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | 550 | 450 | 450 | - | 1,450 |
| Total Cost | - | 10 | 40 | 600 | 450 | 450 | - | 1,550 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|---|-----------|-----------|------------|------------|------------|---|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | 10 | 40 | 600 | 450 | 450 | - | 1,550 |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | 10 | 40 | 600 | 450 | 450 | - | 1,550 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

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WATER PROGRAM

The Water Program is administered by the Water division of the Utilities Department. The program is designed to achieve five primary strategic objectives:

- 1) Replace and/or rehabilitate aging infrastructure;
- 2) Maintain or increase system reliability;
- 3) Improve system efficiency;
- 4) Address system growth; and
- 5) Regulatory compliance

The water utility continues to plan and invest in the future of the city by maximizing treatment capacity and ensuring facilities are in place to reliably provide water to current and future city residents. The Water Program is slated to improve and enhance the city's water supply, treatment and distribution systems, and provide for new construction and/or upgrades of the city's infrastructure such as pump stations, tanks, treatment facilities, and transmission and distribution water mains.

PRIOR YEAR ACCOMPLISHMENTS

24" Transmission Main Replacement (W-042)

Portions of upgraded 36" transmission main are being replaced along Route 28 and Vint Hill Road in conjunction with road improvements being performed by Prince William County.

Finished Water Capacity Increases (W-047)

Completed upgrades at water treatment plant including replacements to HVAC, pumps, and compressor room.

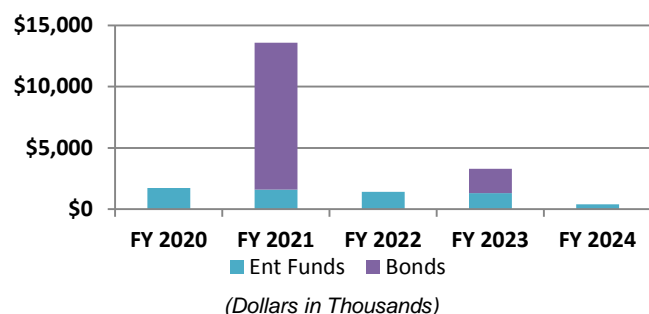
Main Replacement/Looping (W-050)

Water mains were replaced on Richmond Street, Liberty Street, Windsor Lane, and Frank Marshall Lane

THE FIVE-YEAR PLAN (FY 2020 – FY 2024)

The FY 2020 Five-Year Capital Improvement Program (CIP) includes \$6,435,000 in Enterprise Funds (Water Fund) and \$14,000,000 in Bonds.

In FY 2020 funding consists of a \$1,725,000 transfer from the Water Fund.



FY 2020 CAPITAL PROJECTS

24" Transmission Main Replacement (W-042)

Additional funding is programmed for the 24" Transmission Main Replacement. This project is estimated to be completed in FY 2025.



Main Replacement/Looping (W-050)

Replace undersized and aging/failing water mains and loop existing dead-ends on Peabody Street (Stonewall Road to Hazel Drive) and Hazel Drive (Peabody Street to Peabody Street)

Interconnecting Meter Vaults (W-069)

Upgrade or install three meter vaults that interconnect with the Service Authority. These connections will improve the City's ability to utilize emergency capacity

FY 2020 MAINTENANCE CAPITAL PROJECTS

There are no maintenance capital projects proposed for the Water Program.

NEW CAPITAL PROJECTS

Dean Storage Tank (W-071) - new in FY 2019

SUMMARY OF WATER CAPITAL PROJECTS

(\$ in Thousands)

| Cost Estimates: | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|------------------------|------------------------|----------------|----------------|----------------|----------------|----------------|---------------|--------------------------|-----------------------|
| Planning | 2,305 | 60 | 60 | 60 | 60 | 60 | 665 | 3,270 | 300 |
| Land | - | - | - | - | - | - | - | - | - |
| Construction | 32,665 | 1,665 | 13,535 | 1,355 | 3,240 | 340 | 6,235 | 59,035 | 20,135 |
| Total Cost | 34,970 | 1,725 | 13,595 | 1,415 | 3,300 | 400 | 6,900 | 62,305 | 20,435 |

Funding Sources:

| | | | | | | | | | |
|----------------------|---------------|--------------|---------------|--------------|--------------|------------|--------------|---------------|---------------|
| General Fund | - | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - | - |
| Water Fund | 13,720 | 1,725 | 1,595 | 1,415 | 1,300 | 400 | 5,000 | 25,155 | 6,435 |
| Electric Fund | - | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - | - |
| Bonds | 21,250 | - | 12,000 | - | 2,000 | - | 1,900 | 37,150 | 14,000 |
| State | - | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - | - |
| Total Funding | 34,970 | 1,725 | 13,595 | 1,415 | 3,300 | 400 | 6,900 | 62,305 | 20,435 |

Operating Impacts:

| | | | | | | | | | |
|--------------------------|----------|----------|----------|--------------|--------------|----------------|-----------------|-----------------|----------------|
| Revenue | - | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - | - |
| Program (Costs) Saving | - | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | (930) | (930) | (1,085) | (18,755) | (21,700) | (2,945) |
| Net Revenue | - | - | - | (930) | (930) | (1,085) | (18,755) | (21,700) | (2,945) |

WATER CAPITAL PROJECT LISTING

(\$ in Thousands)

| Project Name | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|-------------------------|----------------|--------------|---------------|--------------|--------------|------------|--------------|------------------|---------------|
| 24" Transmission Main | 16,761 | 1,000 | 12,900 | 900 | 2,900 | - | 2,800 | 37,261 | 17,700 |
| Finished Water Capacity | 3,000 | - | - | - | - | - | - | 3,000 | - |
| Main Replacement / Loo | 2,534 | 200 | 495 | 515 | 400 | 400 | 2,900 | 7,444 | 2,010 |
| Clear-Well Addition and | 2,400 | - | - | - | - | - | - | 2,400 | - |
| Nokesville Road Upgrad | - | - | - | - | - | - | 1,000 | 1,000 | - |
| Interconnecting Meter V | 30 | 50 | - | - | - | - | 200 | 280 | 50 |
| Water Plant Improvemen | 245 | 475 | 200 | - | - | - | - | 920 | 675 |
| Dean Storage Tank | 10,000 | - | - | - | - | - | - | 10,000 | - |
| Total | 34,970 | 1,725 | 13,595 | 1,415 | 3,300 | 400 | 6,900 | 62,305 | 20,435 |

W-042 24" Transmission Main Replacement

Year Introduced: 2007

Change: Increased Estimate

Associated Proj: T-042

Program Area: Water

Managing Dept: Utilities

Manager: T. Dawood

Plan Conformance:

Comprehensive Plan 7.7

Est. Start: 7/1/2012

Est. Complete: 6/30/2025



Description:

Replace the existing 45-year old water transmission main with a 36" water transmission main in order to increase reliability and water transmission capacity from the Water Treatment Plant to the City. The main is approaching the ends of its useful life and experiences unacceptable hydraulic conditions during peak demand periods. Two phases have already been completed, one phase is in construction and half completed, three more phases are in design, and the last is being planned out. The project will be coordinated with both City roadway improvements and Prince William County roadway improvements.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 1,225 | - | - | - | - | - | 125 | 1,350 |
| Land | - | - | - | - | - | - | - | - |
| Construction | 15,536 | 1,000 | 12,900 | 900 | 2,900 | - | 2,675 | 35,911 |
| Total Cost | 16,761 | 1,000 | 12,900 | 900 | 2,900 | - | 2,800 | 37,261 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|---------------|--------------|---------------|------------|--------------|----------|--------------|---------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | 7,761 | 1,000 | 900 | 900 | 900 | - | 900 | 12,361 |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | 9,000 | - | 12,000 | - | 2,000 | - | 1,900 | 24,900 |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 16,761 | 1,000 | 12,900 | 900 | 2,900 | - | 2,800 | 37,261 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|--------------|--------------|----------------|-----------------|-----------------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | (930) | (930) | (1,085) | (18,755) | - |
| Net Revenue | - | - | - | (930) | (930) | (1,085) | (18,755) | (21,700) |

W-047 Finished Water Capacity Increases

Year Introduced: 2009

Change: No change

Associated Proj: W-065

Program Area: Water

Managing Dept: Utilities

Manager: T. Dawood

Plan Conformance:

Comprehensive Plan 7.7

Est. Start: 7/1/2013

Est. Complete: 6/30/2021



Description:

Due to growth in the City and increased water demands during the summer months, it is anticipated that additional capacity will be required in the future. The first phase will enable the Water Treatment Plant to increase permitted capacity rating from 14 million gallons per day (mgd) to 15 mgd. The second phase will be to increase to 18 mgd. The project will reduce reliance on Prince William County Service Authority interconnects.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 750 | - | - | - | - | - | - | 750 |
| Land | - | - | - | - | - | - | - | - |
| Construction | 2,250 | - | - | - | - | - | - | 2,250 |
| Total Cost | 3,000 | - | - | - | - | - | - | 3,000 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|--------------|---|---|---|---|---|---|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | 750 | - | - | - | - | - | - | 750 |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | 2,250 | - | - | - | - | - | - | 2,250 |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 3,000 | - | - | - | - | - | - | 3,000 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

W-050 Main Replacement / Looping

Year Introduced: 2009

Change: Increased Estimate

Associated Proj: T-030

Program Area: Water

Managing Dept: Utilities

Manager: T. Dawood

Plan Conformance:

Comprehensive Plan 7.7

Est. Start: 7/1/2008

Est. Complete: 6/30/2025



Description:

Replace undersized and aging/failing water mains and loop existing dead-ends.

FY19: Peabody Street (Stonewall Road to Hazel Drive) and Hazel Drive (Peabody Street to Peabody Street)

FY20: Jackson Avenue (Sudley Road to Longstreet Drive) and Weems Road (Sudley Road to Longstreet Drive)

FY20: Longstreet Drive from Jackson Avenue to Weems Road

FY21: To Be Determined

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 100 | 60 | 60 | 60 | 60 | 60 | 340 | 740 |
| Land | - | - | - | - | - | - | - | - |
| Construction | 2,434 | 140 | 435 | 455 | 340 | 340 | 2,560 | 6,704 |
| Total Cost | 2,534 | 200 | 495 | 515 | 400 | 400 | 2,900 | 7,444 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|--------------|------------|------------|------------|------------|------------|--------------|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | 2,534 | 200 | 495 | 515 | 400 | 400 | 2,900 | 7,444 |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 2,534 | 200 | 495 | 515 | 400 | 400 | 2,900 | 7,444 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

W-065 Clear-Well Addition and Roof Renovation

Year Introduced: 2011

Change: No change

Associated Proj: W-047

Program Area: Water

Managing Dept: Utilities

Manager: T. Dawood

Plan Conformance:

Comprehensive Plan 7.7

Est. Start: 7/1/2017

Est. Complete: 6/30/2020



Description:

Construct a second clear-well to improve reliability of the treatment plant per current design standards. With the new clear well on-line, the roof of the existing clear well will be rehabilitated due to age and observed deterioration identified during an inspection. This project ensures the ability to continue to provide water to the City's customers.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 200 | - | - | - | - | - | - | 200 |
| Land | - | - | - | - | - | - | - | - |
| Construction | 2,200 | - | - | - | - | - | - | 2,200 |
| Total Cost | 2,400 | - | - | - | - | - | - | 2,400 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|--------------|---|---|---|---|---|---|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | 2,400 | - | - | - | - | - | - | 2,400 |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 2,400 | - | - | - | - | - | - | 2,400 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

W-066 Nokesville Road Upgrade

Year Introduced: 2012
Change: No change
Associated Proj: N/A
Program Area: Water
Managing Dept: Utilities
Manager: T. Dawood
Plan Conformance:
 Comprehensive Plan 7.7

Est. Start:
Est. Complete:



Description:

Upgrade 3,200 feet of 8" steel pipe to 16" pipe on Route 28 (Foster Drive to Technology Drive). The new pipe will connect to the existing 24" transmission main and extend 3,200 feet northward to connect with the 16" line installed with the Route 28 Overpass project. This project reduces the potential for breaks in an identified trouble area and is consistent with meeting the City's initiative to improve distribution system operations.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | 200 | 200 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | - | - | 800 | 800 |
| Total Cost | - | - | - | - | - | - | 1,000 | 1,000 |

| Funding Sources: (\$ in 1,000s) | | | | | | | | |
|--|---|---|---|---|---|---|--------------|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | 1,000 | 1,000 |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | - | 1,000 | 1,000 |

| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
|--|---|---|---|---|---|---|---|---|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

W-068 Interconnecting Meter Vaults

Year Introduced: 2017

Change: No change

Associated Proj: N/A

Program Area: Water

Managing Dept: Utilities

Manager: T. Dawood

Plan Conformance:

Comprehensive Plan 7.7

Est. Start: 12/17/2012

Est. Complete: 6/30/2023



Description:

The City plans to upgrade or install three meter vaults that interconnect with the Service Authority. These connections will improve the City's ability to utilize emergency capacity that was purchased and allocated in the agreement of 8/12/1996 and reaffirmed on 12/17/2012.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 30 | - | - | - | - | - | - | 30 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | 50 | - | - | - | - | 200 | 250 |
| Total Cost | 30 | 50 | - | - | - | - | 200 | 280 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | 30 | 50 | - | - | - | - | 200 | 280 |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 30 | 50 | - | - | - | - | 200 | 280 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

W-070 Water Plant Improvements

Year Introduced: 2018

Change: Increased Estimate

Associated Proj: N/A

Program Area: Water

Managing Dept: Utilities

Manager: T. Dawood

Plan Conformance:

Comprehensive Plan 7.7.3

Est. Start: 7/1/2018

Est. Complete: 6/30/2024



Description:

Replace and refurbish critical components of the Water Treatment Plant related to both age and increased capacity requirements.

FY21: Install sludge de-watering screw/bolt press cartridge.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | 245 | 475 | 200 | - | - | - | - | 920 |
| Total Cost | 245 | 475 | 200 | - | - | - | - | 920 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|------------|------------|------------|---|---|---|---|------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | 245 | 475 | 200 | - | - | - | - | 920 |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 245 | 475 | 200 | - | - | - | - | 920 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

W-071 Dean Storage Tank

Year Introduced: 2019

Change: No change

Associated Proj: W-071

Program Area: Water

Managing Dept: Utilities

Manager: T. Dawood

Plan Conformance:

Comprehensive Plan 7.7.3

Est. Start: 1/1/2019

Est. Complete: 12/31/2020



Description:

The 2.5 million gallon water storage tank is required to be in compliance of VDH regulations for minimum system-wide storage as well as to meet peak seasonal water demands. The new tank will be similar in size, capacity and appearance to the existing tank.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | 10,000 | - | - | - | - | - | - | 10,000 |
| Total Cost | 10,000 | - | - | - | - | - | - | 10,000 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|---------------|---|---|---|---|---|---|---------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | 10,000 | - | - | - | - | - | - | 10,000 |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 10,000 | - | - | - | - | - | - | 10,000 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

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ELECTRIC PROGRAM

The Electric Program is administered by the Electric division of the Utilities Department. The program is designed to achieve five primary strategic objectives:

- 1) Replace and/or rehabilitate aging infrastructure;
- 2) Maintain or increase system reliability;
- 3) Improve system efficiency;
- 4) Address system growth; and
- 5) Regulatory compliance

Each capital project is reviewed by staff to ensure it is both economically justifiable and consistent with the Utilities Strategic Plan. Projects are coordinated to ensure that relocations and underground projects are accomplished together with transportation projects so community disruptions are minimized.

The City owns and maintains the electric distribution system within the City limits. The electrical system consists of 205 miles of primary lines; 15,150 electric meters, 6 electric substations, and 31 diesel generators that are used to reduce electric costs in the City. The annual peak electric load is 140 megawatts (MW).

PRIOR YEAR ACCOMPLISHMENTS

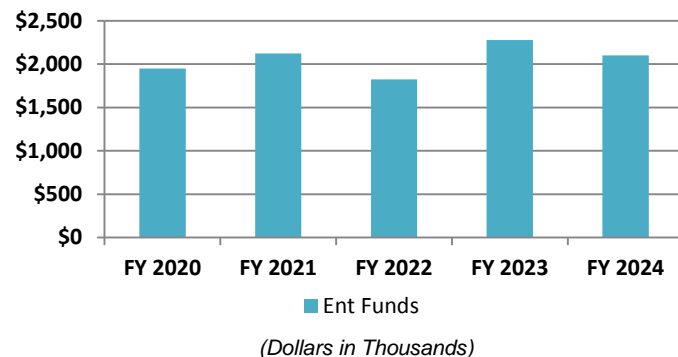
The electric utility is investing every year in ongoing projects to maintain and upgrade the electrical distribution infrastructure including placing Overhead Lines Underground (E-033), Underground Cable/Termination Replacement (E-030), and Substation Capacity/Reliability Improvements (E-037).

The spending on maintenance and upgrades of the electrical distribution directly contributes to the City's excellent power service availability of 99.99%. This translates to less than 52 minutes of outage time for the average consumer in a year.

THE FIVE-YEAR PLAN (FY 2020 – FY 2024)

The FY 2020 Five-Year Capital Improvement Program (CIP) includes \$10,280,000 in Enterprise Funds (Electric Fund).

FY 2020 funding consists of a \$1,950,000 transfer from the Electric Fund.



FY 2020 CAPITAL PROJECTS

Underground Cable/Termination Replacement (E-030)
Replace cable and terminations along Liberia Avenue

Alternative Generation Initiatives (E-031)

Ongoing investments to upgrade the diesel generation assets to meet changing emissions requirements and investigate new technologies to provide alternative peak-shaving methods.

(Dollars in Thousands)



Place Overhead Lines Underground (E-033)

Relocation of utility services underground along Foster Drive from Technology Drive to Dean Drive.

LED Streetlight Replacement (E-034)

Upgrade all Manassas City streetlights (approximately 2,800) to LED over seven years.

Point of Woods Substation Circuit Tie-Point (E-036)

Design and build an alternate tie to the Airport Substation Circuit to increase operational flexibility and allow maintenance at the substation

Substation Capacity/Reliability Improvements (E-037)

Perform major maintenance of the transformer and bus at Battery Heights.

FY 2020 MAINTENANCE CAPITAL PROJECTS

Circuit Automation (E-038)

Improve reliability and switching operations by replacing multiple types of manual switches with automatically operated devices

NEW CAPITAL PROJECTS

Manassas Airport Distribution Improvements (E-035)

Point of Woods Substation Circuit Tie-Point (E-036)

Substation Capacity/Reliability Improvements (E-037)

SUMMARY OF ELECTRIC CAPITAL PROJECTS

(\$ in Thousands)

| CostEstimates: | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|-----------------------|------------------------|----------------|----------------|----------------|----------------|----------------|---------------|--------------------------|-----------------------|
| Planning | 420 | 185 | 85 | 185 | 10 | 10 | 150 | 1,045 | 475 |
| Land | - | - | - | - | - | - | - | - | - |
| Construction | 6,250 | 1,765 | 2,040 | 1,640 | 2,270 | 2,090 | 2,500 | 18,555 | 9,805 |
| Total Cost | 6,670 | 1,950 | 2,125 | 1,825 | 2,280 | 2,100 | 2,650 | 19,600 | 10,280 |

Funding Sources:

| | | | | | | | | | |
|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| General Fund | - | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - | - |
| Electric Fund | 6,670 | 1,950 | 2,125 | 1,825 | 2,280 | 2,100 | 2,650 | 19,600 | 10,280 |
| Stormwater Fund | - | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - | - |
| Total Funding | 6,670 | 1,950 | 2,125 | 1,825 | 2,280 | 2,100 | 2,650 | 19,600 | 10,280 |

Operating Impacts:

| | | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - | - |
| Program (Costs) Saving | - | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - | - |

ELECTRIC CAPITAL PROJECT LISTING

(\$ in Thousands)

| Project Name | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|---------------------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|------------------|---------------|
| Underground Cable and | 3,340 | 400 | 400 | 400 | 400 | 400 | - | 5,340 | 2,000 |
| Alternative Generation In | 1,450 | 300 | 300 | 300 | 300 | 300 | - | 2,950 | 1,500 |
| New Fiber Optic Loop/Ri | 355 | - | - | - | - | - | - | 355 | - |
| Place Overhead Lines U | 1,275 | 450 | 500 | 400 | 580 | 500 | - | 3,705 | 2,430 |
| LED Streetlight Replace | 250 | 100 | 100 | 100 | 100 | 100 | - | 750 | 500 |
| Manassas Airport Distrib | - | 175 | 300 | 300 | 450 | 450 | - | 1,675 | 1,675 |
| Point of Woods Substati | - | 300 | 200 | - | - | - | - | 500 | 500 |
| Substation Capacity and | - | 225 | 325 | 325 | 450 | 350 | 2,650 | 4,325 | 1,675 |
| Total | 6,670 | 1,950 | 2,125 | 1,825 | 2,280 | 2,100 | 2,650 | 19,600 | 10,280 |

E-030 Underground Cable and Termination Replacement

Year Introduced: 2010
Change: No change
Associated Proj: N/A
Program Area: Electric
Managing Dept: Utilities
Manager: D. Jones

Plan Conformance:
 Comprehensive Plan 7.7

Est. Start:
Est. Complete:



Description:

The utility has experienced an above average number of failures on the 15KV main feeder circuits because cables have been in use long past their expected service life. This is a formal program for replacing cables and terminations based on test results, age, and the number of faults experienced.

FY20: Liberia Avenue

FY21 : Georgetown South Tie Point Phase I; FY22: Georgetown South Tie Point Phase II

FY23: Acer Lane Circuit Tie Point 103/302; FY24: Park Avenue/Park Street Neighborhood

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 220 | 10 | 10 | 10 | 10 | 10 | - | 270 |
| Land | - | - | - | - | - | - | - | - |
| Construction | 3,120 | 390 | 390 | 390 | 390 | 390 | - | 5,070 |
| Total Cost | 3,340 | 400 | 400 | 400 | 400 | 400 | - | 5,340 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|--------------|------------|------------|------------|------------|------------|----------|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | 3,340 | 400 | 400 | 400 | 400 | 400 | - | 5,340 |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 3,340 | 400 | 400 | 400 | 400 | 400 | - | 5,340 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

E-031 Alternative Generation Initiatives

Year Introduced: 2011
Change: Expanded Scope
Associated Proj: N/A
Program Area: Electric
Managing Dept: Utilities
Manager: D. Jones

Plan Conformance:
 Comprehensive Plan 7.7
 Comprehensive Plan 8.3

Est. Start:
Est. Complete:



Description:

Maintain and upgrade the diesel generation assets to meet changing emissions requirements and investigate new technologies to provide alternative peak-shaving methods.
 Projects in development: Gas turbine tie to Prince William Substation; Dean Park generators relocation; study generators for peaking; Osbourn HS generator replacement.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 150 | - | - | - | - | - | - | 150 |
| Land | - | - | - | - | - | - | - | - |
| Construction | 1,300 | 300 | 300 | 300 | 300 | 300 | - | 2,800 |
| Total Cost | 1,450 | 300 | 300 | 300 | 300 | 300 | - | 2,950 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|--------------|------------|------------|------------|------------|------------|----------|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | 1,450 | 300 | 300 | 300 | 300 | 300 | - | 2,950 |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 1,450 | 300 | 300 | 300 | 300 | 300 | - | 2,950 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

E-032 New Fiber Optic Loop/Ring

Year Introduced: 2015

Change: No change

Associated Proj: N/A

Program Area: Electric

Managing Dept: Utilities

Manager: D. Jones

Plan Conformance:

Comprehensive Plan 7.7

Est. Start: 7/1/2016

Est. Complete: 6/30/2020



Description:

Identify needs of self-healing rings/loops using fiber optic paths for priority services. Install new fiber optic cabling to provide priority services to the necessary redundancy loops/rings. This will improve reliability of critical infrastructure networks and public safety services.

FY19: VMEA to Quarry Road (28,000') and Ball Field to Micron (1,200');

FY20: Prince William Street to Buckner Road (12,100')

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | 355 | - | - | - | - | - | - | 355 |
| Total Cost | 355 | - | - | - | - | - | - | 355 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|------------|---|---|---|---|---|---|------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | 355 | - | - | - | - | - | - | 355 |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 355 | - | - | - | - | - | - | 355 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

E-033 Place Overhead Lines Underground (Non-Transportation)

Year Introduced: 2016

Change: Increased Estimate

Associated Proj: N/A

Program Area: Electric

Managing Dept: Utilities

Manager: D. Jones

Plan Conformance:

Comprehensive Plan 7.6.2

Est. Start:
Est. Complete:



Description:

Place overhead electric, telephone, cable, and fiber lines underground, improving reliability and aesthetics, and lowering maintenance costs. 86% of lines are underground and approximately 3,900 feet are undergrounded annually.

FY20: Foster Drive Phase II (Technology Drive to Dean Drive); FY21: Jefferson Avenue/Lincoln Avenue/School Street
FY22: Sudley Road (Southside; Digges Road to Godwin Drive); FY23: Sudley Road (Southside; Stonewall Road to Digges Road)

FY24: Portner Avenue (Main Street to Sudley Road Tie Point 404/104)

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | 1,275 | 450 | 500 | 400 | 580 | 500 | - | 3,705 |
| Total Cost | 1,275 | 450 | 500 | 400 | 580 | 500 | - | 3,705 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|--------------|------------|------------|------------|------------|------------|----------|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | 1,275 | 450 | 500 | 400 | 580 | 500 | - | 3,705 |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 1,275 | 450 | 500 | 400 | 580 | 500 | - | 3,705 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

E-034 LED Streetlight Replacement

Year Introduced: 2017

Change: No change

Associated Proj: N/A

Program Area: Electric

Managing Dept: Utilities

Manager: D. Jones

Plan Conformance:

Comprehensive Plan 8.3

Est. Start: 7/1/2016

Est. Complete: 6/30/2024



Description:

Upgrade all Manassas City streetlights (approx. 2,800) to LED over seven years. First year activities include planning, design, and specifications of fixtures including public input and investigation of other local municipalities that have changed to LED.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 50 | - | - | - | - | - | - | 50 |
| Land | - | - | - | - | - | - | - | - |
| Construction | 200 | 100 | 100 | 100 | 100 | 100 | - | 700 |
| Total Cost | 250 | 100 | 100 | 100 | 100 | 100 | - | 750 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|------------|------------|------------|------------|------------|------------|----------|------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | 250 | 100 | 100 | 100 | 100 | 100 | - | 750 |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 250 | 100 | 100 | 100 | 100 | 100 | - | 750 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

E-035 Manassas Airport Distribution Improvements

Year Introduced: 2020
Change: New Project
Associated Proj: N/A
Program Area: Electric
Managing Dept: Utilities
Manager: D. Jones

Plan Conformance:
 Comprehensive Plan 7.7.9
Est. Start: 7/1/2019
Est. Complete: 6/30/2024



Description:

The electrical distribution system at Manassas Municipal Airport has been installed over time without a coordinated plan for redundancy and reliability. This project will study the new loads planned at the Airport and develop a replacement and upgrade plan for the electrical infrastructure. This will include adding switching options for redundancy and a review and upgrade of the backup generation. The design will also include adding renewable energy utility-level battery storage and a study of solar options to tie to the battery system (2023-2024).

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | 75 | - | - | - | - | - | 75 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | 100 | 300 | 300 | 450 | 450 | - | 1,600 |
| Total Cost | - | 175 | 300 | 300 | 450 | 450 | - | 1,675 |

| Funding Sources: (\$ in 1,000s) | | | | | | | | |
|--|---|------------|------------|------------|------------|------------|---|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | 175 | 300 | 300 | 450 | 450 | - | 1,675 |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | 175 | 300 | 300 | 450 | 450 | - | 1,675 |

| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
|--|---|---|---|---|---|---|---|---|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

E-036 Point of Woods Substation Circuit Tie-Point

Year Introduced: 2020
Change: New Project
Associated Proj: N/A
Program Area: Electric
Managing Dept: Utilities
Manager: D. Jones

Plan Conformance:
 Comprehensive Plan 7.7.9

Est. Start: 7/1/2019
Est. Complete: 6/30/2021



Description:

The Point of Woods substation has no alternate feed for Circuit 203 to enable offloading the substation for maintenance. Currently, three feeders must be daisy-chained together in order to perform major maintenance at the substation. This project will design and build an alternate tie to the Airport Substation Circuit 306 to increase operational flexibility and allow maintenance at the substation without lowering reliability for customers.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | 50 | - | - | - | - | - | 50 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | 250 | 200 | - | - | - | - | 450 |
| Total Cost | - | 300 | 200 | - | - | - | - | 500 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | 300 | 200 | - | - | - | - | 500 |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | 300 | 200 | - | - | - | - | 500 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

E-037 Substation Capacity and Reliability Improvements

Year Introduced: 2020
Change: New Project
Associated Proj: N/A
Program Area: Electric
Managing Dept: Utilities
Manager: D. Jones

Plan Conformance:
 Comprehensive Plan 7.6.1

Est. Start: 7/1/2019
Est. Complete: 6/30/2025



Description:

This project is designed to evaluate and construct substation capacity improvements to the four City-owned distribution substations and also develop and construct a new substation to serve continued growth and future loads. FY20: Perform major maintenance of the transformer and bus at Battery Heights. This includes de-energizing, draining, and testing the transformer. It also includes high-voltage busing replacements and bus upgrades. FY21: Design and build a new feeder circuit from Battery Heights Substation. This project will install a new breaker and relaying in the existing empty feeder bay to serve increasing loads towards Wellington Road.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | 50 | 75 | 175 | - | - | 150 | 450 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | 175 | 250 | 150 | 450 | 350 | 2,500 | 3,875 |
| Total Cost | - | 225 | 325 | 325 | 450 | 350 | 2,650 | 4,325 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|---|------------|------------|------------|------------|------------|--------------|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | 225 | 325 | 325 | 450 | 350 | 2,650 | 4,325 |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | 225 | 325 | 325 | 450 | 350 | 2,650 | 4,325 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

ELECTRIC MAINTENANCE CAPITAL PROJECT LISTING

(\$ in Thousands)

The City identifies Capital Projects as projects with a cost greater than \$100,000 **and** a useful life of 10+ years. The City recognizes that there are additional projects/needs that are capital in nature but do not meet the requirement set forth for a capital project. These additional projects/needs are considered Maintenance Capital Projects, a list of which is provided below for the Electric Program.

| Project Name | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|--------------------|----------------|------------|---------|------------|---------|------------|--------|------------------|---------------|
| Circuit Automation | - | 110 | - | 110 | - | 110 | - | 330 | 330 |
| Total Cost | - | 110 | - | 110 | - | 110 | - | 330 | 330 |

Funding Sources

| | | | | | | | | | |
|----------------------|---|------------|---|------------|---|------------|---|------------|------------|
| General Fund | - | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - | - |
| Electric Fund | - | 110 | - | 110 | - | 110 | - | 330 | 330 |
| Stormwater Fund | - | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - | - |
| Total Funding | - | 110 | - | 110 | - | 110 | - | 330 | 330 |

STORMWATER PROGRAM

The Stormwater Program is administered by the Engineering Department. Staff is responsible for the planning, design, and construction of stormwater projects that will improve the environment, reduce runoff volumes, mitigate flooding, and meet state and federal regulatory compliance requirements.

Many projects in the Stormwater Program work to meet the Environmental Protection Agency's (EPA) Total Maximum Daily Load (TMDL) for the Chesapeake Bay. TMDL is the calculation of the maximum amount of pollution a body of water can receive and still meet state water quality standards designed to ensure waterways meet a national primary goal of being swimmable and fishable. Monitoring data shows that the Chesapeake Bay has poor water quality, degraded habitats, and low populations of many species of fish and shellfish.

According to the EPA, the goal of TMDL for the bay is to restore clean water in the Chesapeake Bay and the region's streams, creeks, and rivers. TMDL was promoted by insufficient progress and continued poor water quality in the Chesapeake Bay and its tidal tributaries. It is required under the federal Clean Water Act and responds to consent decrees in Virginia and the District of Columbia from the late 1990s. Pollution limits are divided by jurisdiction and major river basin based on state-of-the-art modeling tools, extensive monitoring data, peer-reviewed science and close interaction with jurisdiction partners. The TMDL is designed to ensure that all pollution control measures needed to fully restore the Chesapeake Bay and its tidal rivers are in place by 2025, with practices in place by 2017 to meet 60 percent of the overall nitrogen, phosphorus, and sediment reductions.

The Virginia Municipal Separate Storm Sewer Program (MS-4) is also a major driver of stormwater projects. The permit is renewed every 5 years with increasing requirements to remove pollutants from natural streams.



Prince William Hospital Pond

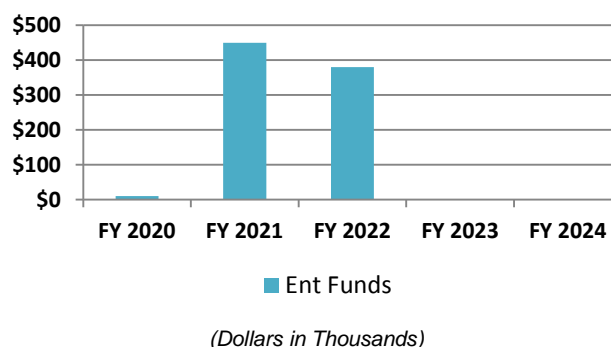
PRIOR YEAR ACCOMPLISHMENTS

The stormwater utility is investing every year in ongoing projects to maintain and upgrade the infrastructure including planning and design for School Street drainage improvements (D-025) and the Cockrell Branch Stormwater Pond restoration (D-018).

THE FIVE-YEAR PLAN (FY 2020 – FY 2024)

The FY 2020 Five-Year Capital Improvement Program includes an \$839,000 transfer from Enterprise Funds (Stormwater Fund).

In FY 2020 funding includes a \$10,000 transfer from the Stormwater Fund.



FY 2020 CAPITAL PROJECTS

Cockrell Branch Stormwater Pond (D-018)

Restore and dredge the Cockrell Branch Storm Water Management Pond to restore capacity and functionality to the pond and improve aesthetics.

FY 2020 MAINTENANCE CAPITAL PROJECTS

Maintenance capital projects in the Stormwater Program include recurring maintenance of stormwater infrastructure to including sluice gate replacement and backups, small pond re-grading and outfall improvements, drainage improvements to flood prone areas, facility improvements including perimeter fences, outfall protection, and fountain replacements (D-029). A multi-year project to update outdated FEMA floodplain maps (D-030) is also funded.

NEW CAPITAL PROJECTS

There are no new projects proposed for the Stormwater Program.

SUMMARY OF STORMWATER CAPITAL PROJECTS

(\$ in Thousands)

| Cost Estimates: | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|------------------------|------------------------|----------------|----------------|----------------|----------------|----------------|---------------|--------------------------|-----------------------|
| Planning | 35 | 10 | 25 | - | - | - | 1,825 | 1,895 | 35 |
| Land | 5 | - | - | - | - | - | - | 5 | - |
| Construction | 197 | - | 424 | 380 | - | - | 17,611 | 18,612 | 804 |
| Total Cost | 237 | 10 | 449 | 380 | - | - | 19,436 | 20,512 | 839 |

Funding Sources:

| | | | | | | | | | |
|----------------------|------------|-----------|------------|------------|----------|----------|---------------|---------------|------------|
| General Fund | - | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | 60 | 60 | - |
| Water Fund | - | - | - | - | - | - | 230 | 230 | - |
| Electric Fund | - | - | - | - | - | - | - | - | - |
| Stormwater Fund | 137 | 10 | 449 | 380 | - | - | 396 | 1,372 | 839 |
| Airport Fund | - | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | 18,750 | 18,750 | - |
| State | - | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - | - |
| Other Sources | 100 | - | - | - | - | - | - | 100 | - |
| Total Funding | 237 | 10 | 449 | 380 | - | - | 19,436 | 20,512 | 839 |

Operating Impacts:

| | | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|-----------------|-----------------|----------|
| Revenue | - | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - | - |
| Program (Costs) Saving | - | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | (29,062) | (29,062) | - |
| Net Revenue | - | - | - | - | - | - | (29,062) | (29,062) | - |

STORMWATER CAPITAL PROJECT LISTING

(\$ in Thousands)

| Project Name | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|--------------------------|----------------|-----------|------------|------------|----------|----------|---------------|------------------|---------------|
| Sills Pond | - | - | - | - | - | - | 396 | 396 | - |
| Peabody Street / Early S | - | - | 25 | 380 | - | - | - | 405 | 405 |
| Cockrell Branch SWM P | - | 10 | 424 | - | - | - | - | 434 | 434 |
| Jackson Avenue Draina | - | - | - | - | - | - | 1,940 | 1,940 | - |
| Hazel Drive Channel Imp | 35 | - | - | - | - | - | - | 35 | - |
| School Street Drainage I | 202 | - | - | - | - | - | - | 202 | - |
| Winter's Branch Stream | - | - | - | - | - | - | 8,250 | 8,250 | - |
| Flat Branch Stream Rest | - | - | - | - | - | - | 4,100 | 4,100 | - |
| Sumner Lake Stream Re | - | - | - | - | - | - | 4,750 | 4,750 | - |
| Total | 237 | 10 | 449 | 380 | - | - | 19,436 | 20,512 | 839 |

D-009 Sills Pond

Year Introduced: 2000

Change: Timeline

Associated Proj: N/A

Program Area: Stormwater

Managing Dept: Utilities

Manager: T. Dawood

Plan Conformance:

Comprehensive Plan 7.7

Est. Start: 7/1/2025

Est. Complete: 6/30/2029



Description:

Retrofit and expand an existing stormwater management pond. This will assist the City in meeting the nutrient reductions necessary as required by the State & EPA as part of its Total Maximum Daily Load (TMDL).

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | 45 | 45 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | - | - | 351 | 351 |
| Total Cost | - | - | - | - | - | - | 396 | 396 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | 396 | 396 |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | - | 396 | 396 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

D-011 Peabody Street / Early Street Drainage

Year Introduced: 2002

Change: No change

Associated Proj: N/A

Program Area: Stormwater

Managing Dept: Utilities

Manager: T. Dawood

Plan Conformance:

Comprehensive Plan 7.7

Est. Start: 7/1/2020

Est. Complete: 6/30/2023



Description:

Replace 2,000 feet of deteriorating 27"-30" storm sewer pipe and correct flooding issues in yard due to through drainage. Through drainage needs to be improved, upgraded, or rerouted to reduce flooding and impact to property due to deteriorated drainage pipes. The current drainage system is not in a City of Manassas easement.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | 25 | - | - | - | - | 25 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | 380 | - | - | - | 380 |
| Total Cost | - | - | 25 | 380 | - | - | - | 405 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | 25 | 380 | - | - | - | 405 |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | 25 | 380 | - | - | - | 405 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

D-018 Cockrell Branch SWM Pond Restoration / Dredging

Year Introduced: 2008
Change: No change
Associated Proj: N/A
Program Area: Stormwater
Managing Dept: Utilities
Manager: T. Dawood

Plan Conformance:
 Comprehensive Plan 7.7

Est. Start: 7/1/2019
Est. Complete: 6/30/2021



Description:

Restore and dredge the Cockrell Branch Storm Water Management Pond. This will restore capacity and functionality to the pond and improve aesthetics. This project may be eligible for Total Maximum Daily Load (TMDL) credit.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | 10 | - | - | - | - | - | 10 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | 424 | - | - | - | - | 424 |
| Total Cost | - | 10 | 424 | - | - | - | - | 434 |

| Funding Sources: (\$ in 1,000s) | | | | | | | | |
|--|---|-----------|------------|---|---|---|---|------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | 10 | 424 | - | - | - | - | 434 |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | 10 | 424 | - | - | - | - | 434 |

| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
|--|---|---|---|---|---|---|---|---|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

D-019 Jackson Avenue Drainage Improvements

Year Introduced: 2013
Change: No change
Associated Proj: N/A
Program Area: Stormwater
Managing Dept: Utilities
Manager: T. Dawood
Plan Conformance:
 Comprehensive Plan 7.7

Est. Start:
Est. Complete:



Description:

Replace the existing underground storm sewer system with a larger pipe system. This includes replacing sidewalk, curb and gutter, structures, and pavement. This should address problems with flooding of yards upstream.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------------|
| Planning | - | - | - | - | - | - | 180 | 180 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | - | - | 1,760 | 1,760 |
| Total Cost | - | - | - | - | - | - | 1,940 | 1,940 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | 60 | 60 |
| Water Fund | - | - | - | - | - | - | 230 | 230 |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | 1,650 | 1,650 |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | - | 1,940 | 1,940 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | (2,557) | (2,557) |
| Net Revenue | - | - | - | - | - | - | (2,557) | (2,557) |

D-021 Hazel Drive Channel Improvements

Year Introduced: 2013

Change: No change

Associated Proj: S-016

Program Area: Stormwater

Managing Dept: Utilities

Manager: T. Dawood

Plan Conformance:

Comprehensive Plan 7.7

Est. Start: 7/1/2017

Est. Complete: 10/31/2019



Description:

Stream restoration along Flat Branch. Approximately 500 feet of stream to be restored to meet DEQ Stream Restoration including armoring banks, creating natural pools and sinuosity in channel. Project may be eligible for Total Maximum Daily Load (TMDL) credit.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 35 | - | - | - | - | - | - | 35 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | - | - | - | - |
| Total Cost | 35 | - | - | - | - | - | - | 35 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | 35 | - | - | - | - | - | - | 35 |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 35 | - | - | - | - | - | - | 35 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

D-025 School Street Drainage Improvements

Year Introduced: 2014
Change: No change
Associated Proj: T019;E014;S017;W063
Program Area: Stormwater
Managing Dept: Utilities
Manager: T. Dawood

Plan Conformance:
 Comprehensive Plan 7.7

Est. Start: 9/1/2014
Est. Complete: 9/30/2019



Description:

Install storm drain pipe to prevent existing homes from being flooded by off-site stormwater flows. This will improve the storm drainage to the existing ditch, which receives drainage from Prince William Street/Jefferson Avenue area. It will reduce localized residential flooding as well.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | 5 | - | - | - | - | - | - | 5 |
| Construction | 197 | - | - | - | - | - | - | 197 |
| Total Cost | 202 | - | - | - | - | - | - | 202 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|------------|---|---|---|---|---|---|------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | 102 | - | - | - | - | - | - | 102 |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | 100 | - | - | - | - | - | - | 100 |
| Total Funding | 202 | - | - | - | - | - | - | 202 |

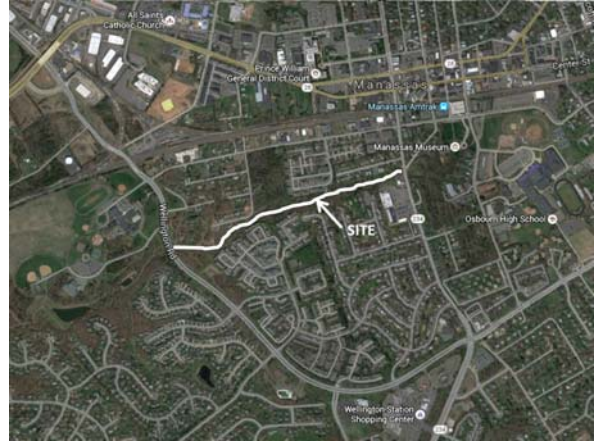
Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

D-026 Winter's Branch Stream Restoration

Year Introduced: 2015
Change: No change
Associated Proj: N/A
Program Area: Stormwater
Managing Dept: Utilities
Manager: T. Dawood
Plan Conformance:
 Comprehensive Plan 7.7

Est. Start:
Est. Complete:



Description:

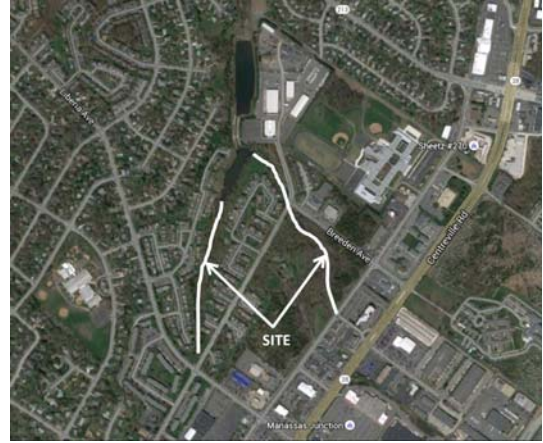
Repair the eroded stream banks along Winter's Branch from Bartow Street to Wellington Road. Stabilize and protect the stream from further erosion. This project may be eligible for Total Maximum Daily Load (TMDL) credit.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------------|
| Planning | - | - | - | - | - | - | 750 | 750 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | - | - | 7,500 | 7,500 |
| Total Cost | - | - | - | - | - | - | 8,250 | 8,250 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | 8,250 | 8,250 |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | - | 8,250 | 8,250 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | (12,788) | (12,788) |
| Net Revenue | - | - | - | - | - | - | (12,788) | (12,788) |

D-027 Flat Branch Stream Restoration

Year Introduced: 2016
Change: No change
Associated Proj: N/A
Program Area: Stormwater
Managing Dept: Utilities
Manager: T. Dawood
Plan Conformance:
 Comprehensive Plan 7.7

Est. Start:
Est. Complete:



Description:

Repair the eroded stream banks along Flat Branch from upstream of the New Britain Storm Water management facility to Mathis Avenue and Portner Avenue (2 tributaries). Stabilize and protect the stream bank from further erosion. This project may be eligible for Total Maximum Daily Load (TMDL) credit.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------------|
| Planning | - | - | - | - | - | - | 400 | 400 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | - | - | 3,700 | 3,700 |
| Total Cost | - | - | - | - | - | - | 4,100 | 4,100 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | 4,100 | 4,100 |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | - | 4,100 | 4,100 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | (6,355) | (6,355) |
| Net Revenue | - | - | - | - | - | - | (6,355) | (6,355) |

D-028 Sumner Lake Stream Restoration

Year Introduced: 2016
Change: No change
Associated Proj: N/A
Program Area: Stormwater
Managing Dept: Utilities
Manager: T. Dawood
Plan Conformance:
 Comprehensive Plan 7.7

Est. Start:
Est. Complete:



Description:

Repair the eroded stream banks from just upstream of Sumner Lake to Grant Avenue. Stabilize and protect the stream bank from further erosion. This project may be eligible for Total Maximum Daily Load (TMDL) credit.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------------|
| Planning | - | - | - | - | - | - | 450 | 450 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | - | - | 4,300 | 4,300 |
| Total Cost | - | - | - | - | - | - | 4,750 | 4,750 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | 4,750 | 4,750 |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | - | 4,750 | 4,750 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | (7,362) | (7,362) |
| Net Revenue | - | - | - | - | - | - | (7,362) | (7,362) |

STORMWATER MAINTENANCE CAPITAL PROJECT LISTING

(\$ in Thousands)

The City identifies Capital Projects as projects with a cost greater than \$100,000 and a useful life of 10+ years. The City recognizes that there are additional projects/needs that are capital in nature but do not meet the requirement set forth for a capital project. These additional projects/needs are considered Maintenance Capital Projects, a list of which is provided below for the Stormwater Program.

| Project Name | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|-------------------------|----------------|------------|------------|------------|------------|------------|----------|------------------|---------------|
| Stormwater / Drainage M | 35 | 35 | 35 | 35 | 35 | 35 | - | 210 | 175 |
| Floodplain Mapping Upd | 65 | 65 | 65 | 65 | 65 | 65 | - | 390 | 325 |
| Total Cost | 100 | 100 | 100 | 100 | 100 | 100 | - | 600 | 500 |

Funding Sources

| | | | | | | | | | |
|----------------------|------------|------------|------------|------------|------------|------------|----------|------------|------------|
| General Fund | - | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - | - |
| Stormwater Fund | 100 | 100 | 100 | 100 | 100 | 100 | - | 600 | 500 |
| Airport Fund | - | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - | - |
| Total Funding | 100 | 100 | 100 | 100 | 100 | 100 | - | 600 | 500 |

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AIRPORT PROGRAM

The Airport Program is administered by the Airport Department. Manassas Regional Airport staff continues to undertake projects to ensure the Airport maintains safe, modern facilities that incorporate the latest in aviation technology while remaining fiscally responsible. The primary types of projects undertaken are planning, safety and capacity, revenue generation, and rehabilitation.

Serving the Washington, D.C. Region for more than 50 years, Manassas Regional Airport is the largest executive regional airport in Virginia.



PRIOR YEAR ACCOMPLISHMENTS

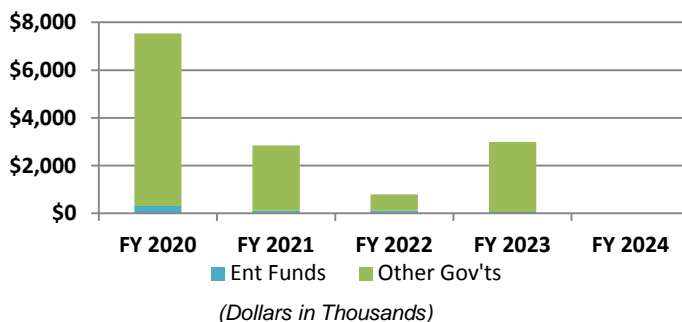
Mid-Field West Apron Rehabilitation (A-067)
Construction has been completed.

THE FIVE-YEAR PLAN (FY 2020 – FY 2024)

The FY 2020 Five-Year Capital Improvement Program (CIP) includes

- \$589,000 Enterprise Funds (Airport Fund)
- \$2,401,000 State Aid
- \$11,198,000 Federal Aid

In FY 2020 funding consists of a \$312,000 transfer from the Airport Fund; \$1,293,000 in State Grants; and \$5,933,000 in Federal Grants. The timing of these projects depends on the receipt of grant awards from the State and/or Federal government.



The airport continues to maximize federal and state participation in funding its capital projects. The Federal Aviation Administration (FAA) funds ninety percent (90%) of eligible airport capital projects.

FY 2020 CAPITAL PROJECTS

Runway 16R/34L Lighting System & PAPIs (A-032) and Runway 16R/34L Rehabilitation (A-70)

Begin design for the rehabilitation of the pavement, restriping, and the installation of new LED runway lights and precision approach path indicators (PAPIs).

Taxiway A Rehabilitation (A-069)

Rehabilitate Taxiway A located on the west side of the airport.

Terminal Building Roof Replacement (A-077)

Replace the flat rubber membrane roof with a new modern roof system

Installation of Security Fiberline (A-080)

Install fiber line to expand and enhance the existing network infrastructure throughout the airport.

Taxiway G and Taxilane Y Project (A-086)

Design and construct Taxiway G and Taxilane Y to serve the southeast corporate pad site.

West Corporate Development Site / Drainage Improvements (A-087)

Demolish hangars and building facilities, drainage, stormwater, and grading improvements on 10 acres located on the northwest side of the airport for future development of corporate hangar facilities.



FY 2020 CAPITAL MAINTENANCE PROJECTS

Maintenance capital projects in the Airport Program include the Airport Paving Program, both inside (A-084) and outside (A-058) the airfield.

NEW CAPITAL PROJECTS

Terminal Building Roof Replacement (A-077)
West Corporate Development Site / Drainage Improvements (A-087)

SUMMARY OF AIRPORT CAPITAL PROJECTS

(\$ in Thousands)

| Cost Estimates: | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|------------------------|------------------------|----------------|----------------|----------------|----------------|----------------|---------------|--------------------------|-----------------------|
| Planning | 233 | 250 | 50 | 300 | - | - | 1,100 | 1,933 | 600 |
| Land | - | - | - | - | - | - | 3,000 | 3,000 | - |
| Construction | 84 | 7,288 | 2,800 | 500 | 3,000 | - | 12,500 | 26,172 | 13,588 |
| Total Cost | 317 | 7,538 | 2,850 | 800 | 3,000 | - | 16,600 | 31,105 | 14,188 |

Funding Sources:

| | | | | | | | | | |
|----------------------|------------|--------------|--------------|------------|--------------|----------|---------------|---------------|---------------|
| General Fund | - | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - | - |
| Airport Fund | 30 | 312 | 111 | 106 | 60 | - | 742 | 1,361 | 589 |
| School Fund | - | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - | - |
| State | 23 | 1,293 | 444 | 424 | 240 | - | 1,533 | 3,957 | 2,401 |
| Federal | 264 | 5,933 | 2,295 | 270 | 2,700 | - | 14,325 | 25,787 | 11,198 |
| NVTA | - | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - | - |
| Total Funding | 317 | 7,538 | 2,850 | 800 | 3,000 | - | 16,600 | 31,105 | 14,188 |

Operating Impacts:

| | | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | 2 | - | - | - | 2 | 2 |
| Program (Costs) Saving | - | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | 2 | - | - | - | 2 | 2 |

AIRPORT CAPITAL PROJECT LISTING

(\$ in Thousands)

| Project Name | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|-----------------------------|----------------|--------------|--------------|------------|--------------|----------|---------------|------------------|---------------|
| Air Traffic Control Tower | - | - | - | - | - | - | 7,600 | 7,600 | - |
| Upgrade Runway 16R/3 | - | 400 | - | - | - | - | - | 400 | 400 |
| Realignment of Wakema | - | - | - | - | - | - | 3,850 | 3,850 | - |
| Land Acquisition Southw | - | - | - | - | - | - | 3,000 | 3,000 | - |
| Fuel Farm Update | - | - | - | - | - | - | 550 | 550 | - |
| Taxiway A Rehabilitation | - | 250 | 2,250 | - | - | - | - | 2,500 | 2,500 |
| Runway 16R/34L Rehabi | - | 3,000 | - | - | - | - | - | 3,000 | 3,000 |
| North East Apron Expan | - | - | - | - | - | - | 1,300 | 1,300 | - |
| Rehabilitate and Widen | - | - | - | 300 | 3,000 | - | - | 3,300 | 3,300 |
| Terminal Parking Lot Ex | - | - | 50 | 500 | - | - | - | 550 | 550 |
| Terminal Building Roof R | - | 100 | - | - | - | - | - | 100 | 100 |
| Upgrade Taxiway A Light | - | - | 300 | - | - | - | - | 300 | 300 |
| Installation of Security Fi | 24 | 140 | - | - | - | - | - | 164 | 140 |
| Installation of Backup G | - | - | 250 | - | - | - | 300 | 550 | 250 |
| Taxiway G and Taxilane | 293 | 2,648 | - | - | - | - | - | 2,941 | 2,648 |
| West Corporate Develop | - | 1,000 | - | - | - | - | - | 1,000 | 1,000 |
| Total | 317 | 7,538 | 2,850 | 800 | 3,000 | - | 16,600 | 31,105 | 14,188 |

A-030 Air Traffic Control Tower

Year Introduced: 2003
Change: No change
Associated Proj: N/A
Program Area: Airport
Managing Dept: Airport
Manager: J. Rivera

Plan Conformance:
 Comprehensive Plan 6.1.4
 Airport Master Plan
 Airport Strategic Plan

Est. Start:
Est. Complete:



Description:

Design/construct a replacement Airport Traffic Control Tower to be located west of the existing site. Options: 1) FAA builds and maintains; 2) City builds, FAA leases for bond/interest payments; 3) City builds and FAA leases for bond interest payments and operating costs. The existing tower is at the end of its useful life and the maintenance cost is steadily increasing. (Project II-12 of Airport Layout Plan)

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | 600 | 600 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | - | - | 7,000 | 7,000 |
| Total Cost | - | - | - | - | - | - | 7,600 | 7,600 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | 152 | 152 |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | 608 | 608 |
| Federal | - | - | - | - | - | - | 6,840 | 6,840 |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | - | 7,600 | 7,600 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

A-032 Upgrade Runway 16R/34L Lighting System and PAPIs

Year Introduced: 2003

Change: No change

Associated Proj: A-070

Program Area: Airport

Managing Dept: Airport

Manager: J. Rivera

Plan Conformance:

Comprehensive Plan 6.1.4

Airport Master Plan

Est. Start: 4/1/2020

Est. Complete: 12/30/2020



Description:

Replace the Precision Approach Path Indicators (PAPIs) for Runway 16R-34L during the next major rehabilitation of the runway. Over time, the PAPIs are exposed to harsh weather conditions and their reliability is reduced. As part of this project the runway lighting system will be upgraded to LED lights. This would include replacing the regulators and light fixtures. The transformers would no longer be needed.

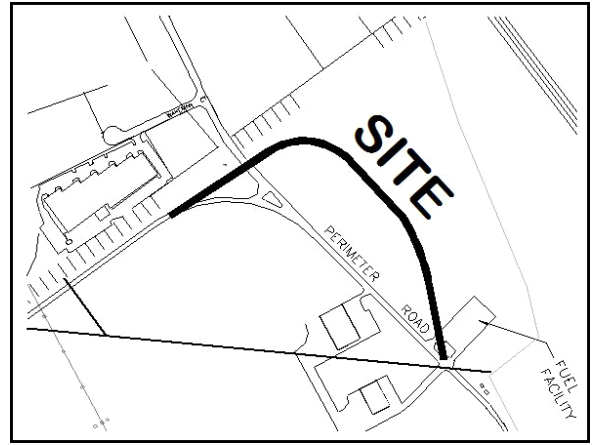
| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | 400 | - | - | - | - | - | 400 |
| Total Cost | - | 400 | - | - | - | - | - | 400 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | 8 | - | - | - | - | - | 8 |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | 32 | - | - | - | - | - | 32 |
| Federal | - | 360 | - | - | - | - | - | 360 |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | 400 | - | - | - | - | - | 400 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | 1 | - | - | - | 1 |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | 1 | - | - | - | 1 |

A-033 Realignment of Wakeman Drive & Observation Road

Year Introduced: 2003
Change: No change
Associated Proj: N/A
Program Area: Airport
Managing Dept: Airport
Manager: J. Rivera

Plan Conformance:
 Comprehensive Plan 6.1.4
 Airport Master Plan
 Airport Strategic Plan

Est. Start:
Est. Complete:



Description:

Design and relocate Wakeman Drive and parts of Observation Road to capture more usable airside land. The road has been deeded to the City as surplus property, so the project will be coordinated with the City's transportation program. With the increase in the amount of usable airside land, the airport could build hangars, ramps, etc. (Project III-10 of Airport Layout Plan)

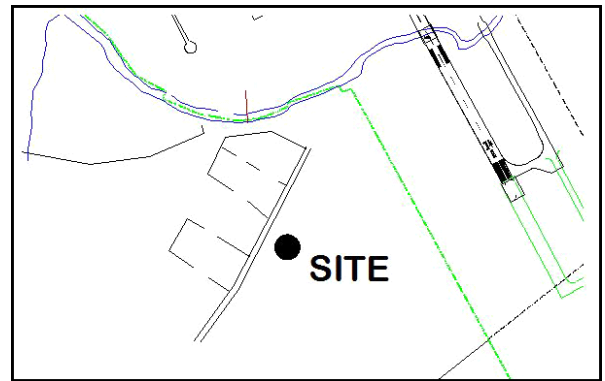
| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | 350 | 350 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | - | - | 3,500 | 3,500 |
| Total Cost | - | - | - | - | - | - | 3,850 | 3,850 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | 77 | 77 |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | 308 | 308 |
| Federal | - | - | - | - | - | - | 3,465 | 3,465 |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | - | 3,850 | 3,850 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

A-034 Land Acquisition Southwest Side of Airport

Year Introduced: 2003
Change: No change
Associated Proj: N/A
Program Area: Airport
Managing Dept: Airport
Manager: J. Rivera

Plan Conformance:
 Comprehensive Plan 6.1.4
 Airport Master Plan
 Airport Strategic Plan

Est. Start:
Est. Complete:



Description:

Purchase property located on the southwest side of the airport, south of Broad Run. The land would serve as a buffer for the airport. It could allow development of an Airport Business Park and expansion on the southwest side, allowing the airport to expand its infrastructure or to add hangars/ramps, thereby increasing revenue.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | 3,000 | 3,000 |
| Construction | - | - | - | - | - | - | - | - |
| Total Cost | - | - | - | - | - | - | 3,000 | 3,000 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | 60 | 60 |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | 90 | 90 |
| Federal | - | - | - | - | - | - | 2,850 | 2,850 |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | - | 3,000 | 3,000 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

A-045 Fuel Farm Update

Year Introduced: 2004
Change: No change
Associated Proj: N/A
Program Area: Airport
Managing Dept: Airport
Manager: J. Rivera

Plan Conformance:
 Comprehensive Plan 6.1.4
 Airport Master Plan
 Airport Strategic Plan

Est. Start:
Est. Complete:



Description:

The fuel farm is approaching 25 years of age. There are approximately 3 million gallons of fuel that flow through the farm annually. As the fuel farm ages, the airport will need to upgrade and repair the facility. This may include expansion of the containment area and possible environmental regulation upgrades. This project is not in the Airport Layout Plan.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | 50 | 50 |
| Construction | - | - | - | - | - | - | 500 | 500 |
| Total Cost | - | - | - | - | - | - | 550 | 550 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|---|---|---|---|---|---|------------|------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | 367 | 367 |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | 183 | 183 |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | - | 550 | 550 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

A-069 Taxiway A Rehabilitation

Year Introduced: 2015

Change: No change

Associated Proj: A-079

Program Area: Airport

Managing Dept: Airport

Manager: J. Rivera

Plan Conformance:

Comprehensive Plan 6.1.4

Airport Master Plan

Airport Strategic Plan

Est. Start: 9/1/2020

Est. Complete: 10/30/2022



Description:

Rehabilitate Taxiway A located on the west side of the airport. Taxiway A is the parallel taxiway for runway 16R/34L and serves design Group II aircraft. The taxiway is reaching the end of its useful life and is showing signs of wear and sub-grade issues. This project includes the rehabilitation of the pavement, restriping, and the installation of LED taxiway lights. This project will only move forward if grant funds are approved by the State and/or FAA.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | 250 | - | - | - | - | - | 250 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | 2,250 | - | - | - | - | 2,250 |
| Total Cost | - | 250 | 2,250 | - | - | - | - | 2,500 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|----------|------------|--------------|----------|----------|----------|----------|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | 5 | 45 | - | - | - | - | 50 |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | 20 | 180 | - | - | - | - | 200 |
| Federal | - | 225 | 2,025 | - | - | - | - | 2,250 |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | 250 | 2,250 | - | - | - | - | 2,500 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

A-070 Runway 16R/34L Rehabilitation

Year Introduced: 2015

Change: No change

Associated Proj: N/A

Program Area: Airport

Managing Dept: Airport

Manager: J. Rivera

Plan Conformance:

Comprehensive Plan 6.1.4

Airport Master Plan

Airport Strategic Plan

Est. Start: 9/1/2019

Est. Complete: 10/30/2021



Description:

Runway 16R/34L (west side of the Airport) is a parallel runway that is 3,700 feet long and serving design Group II Aircraft. The runway is reaching the end of its useful life and is showing signs of wear and sub-grade issues. This project includes the rehabilitation of the pavement, restriping, and the installation of new LED runway lights and PAPIs. This project will only move forward if grant funds are approved by the State and/or FAA.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | 3,000 | - | - | - | - | - | 3,000 |
| Total Cost | - | 3,000 | - | - | - | - | - | 3,000 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | 60 | - | - | - | - | - | 60 |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | 240 | - | - | - | - | - | 240 |
| Federal | - | 2,700 | - | - | - | - | - | 2,700 |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | 3,000 | - | - | - | - | - | 3,000 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

A-072 North East Apron Expansion

Year Introduced: 2016
Change: No change
Associated Proj: N/A
Program Area: Airport
Managing Dept: Airport
Manager: J. Rivera

Plan Conformance:
 Comprehensive Plan 6.1.4
 Airport Master Plan
 Airport Strategic Plan

Est. Start:
Est. Complete:



Description:

Expand the east ramp, north of Taxiway Echo. The project would include concrete hard stands that would be used to park heavier aircraft such as the Gulfstream V or a Boeing Business Jet (BBJ). The project would also include new lights, signage, and pavement striping. As the airport grows, there will be a need for additional parking areas for transient business type aircraft.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | 100 | 100 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | - | - | 1,200 | 1,200 |
| Total Cost | - | - | - | - | - | - | 1,300 | 1,300 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | 26 | 26 |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | 104 | 104 |
| Federal | - | - | - | - | - | - | 1,170 | 1,170 |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | - | 1,300 | 1,300 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

A-074 Rehabilitate and Widen Taxiway B

Year Introduced: 2017

Change: No change

Associated Proj: N/A

Program Area: Airport

Managing Dept: Airport

Manager: J. Rivera

Plan Conformance:

Comprehensive Plan 6.1.4

Airport Master Plan

Airport Strategic Plan

Est. Start: 7/1/2021

Est. Complete: 4/30/2023



Description:

Taxiway B is showing signs of stress and wear and tear. The pavement has been crack sealed to extend its useful life, but it needs to be milled and overlaid. This project also includes widening the taxiway to 50 feet to accommodate the Boeing Business Jet (BBJ) and other aircraft that have outboard engines that hang over the grass when taxiing.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | 300 | - | - | - | 300 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | 3,000 | - | - | 3,000 |
| Total Cost | - | - | - | 300 | 3,000 | - | - | 3,300 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|---|---|---|------------|--------------|---|---|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | 6 | 60 | - | - | 66 |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | 24 | 240 | - | - | 264 |
| Federal | - | - | - | 270 | 2,700 | - | - | 2,970 |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | 300 | 3,000 | - | - | 3,300 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

A-076 Terminal Parking Lot Expansion

Year Introduced: 2017

Change: No change

Associated Proj: N/A

Program Area: Airport

Managing Dept: Airport

Manager: J. Rivera

Plan Conformance:

Comprehensive Plan 6.1.4

Airport Master Plan

Airport Strategic Plan

Est. Start: 7/1/2020

Est. Complete: 11/30/2022



Description:

Expand the existing parking lot to the north to accommodate an additional 150 parking spaces. As activity at the terminal building increases, there will be a need for additional parking. This project is contingent on getting scheduled charter or some other event that would increase the amount of parking needed in and around the terminal building. This project will only move forward if grant funds are approved by the State and/or FAA.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | 50 | - | - | - | - | 50 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | 500 | - | - | - | 500 |
| Total Cost | - | - | 50 | 500 | - | - | - | 550 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|---|---|-----------|------------|---|---|---|------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | 10 | 100 | - | - | - | 110 |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | 40 | 400 | - | - | - | 440 |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | 50 | 500 | - | - | - | 550 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

A-077 Terminal Building Roof Replacement

Year Introduced: 2020
Change: New Project
Associated Proj: N/A
Program Area: Airport
Managing Dept: Airport
Manager: J. Rivera

Plan Conformance:
 Airport Strategic Plan
 Airport Master Plan

Est. Start: 7/1/2019
Est. Complete: 6/30/2020



Description:

The roof on the airport terminal building is over twenty years old and has reached its useful life. There have been multiple repairs conducted on the roof over the past ten years. This project will consist of replacing the flat rubber membrane roof with a new modern roof system with an anticipated useful life of twenty years.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | 100 | - | - | - | - | - | 100 |
| Total Cost | - | 100 | - | - | - | - | - | 100 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | 30 | - | - | - | - | - | 30 |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | 70 | - | - | - | - | - | 70 |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | 100 | - | - | - | - | - | 100 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

A-079 Upgrade Taxiway A Lighting System

Year Introduced: 2017
Change: No change
Associated Proj: A-069
Program Area: Airport
Managing Dept: Airport
Manager: J. Rivera

Plan Conformance:

Comprehensive Plan 6.1.4
 Airport Master Plan
 Airport Strategic Plan

Est. Start: 10/4/2021
Est. Complete: 6/30/2022



Description:

The taxiway lighting system and airfield signs for Taxiway A have reached their useful life and need to be replaced. The current system will be replaced with LED lights and regulators that are more energy efficient and will save the airport money over the long term. The FAA has approved the use of LED lights for general aviation airport taxiways.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | 300 | - | - | - | - | 300 |
| Total Cost | - | - | 300 | - | - | - | - | 300 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | 6 | - | - | - | - | 6 |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | 24 | - | - | - | - | 24 |
| Federal | - | - | 270 | - | - | - | - | 270 |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | 300 | - | - | - | - | 300 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | 1 | - | - | - | 1 |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | 1 | - | - | - | 1 |

A-080 Installation of Security Fiberline

Year Introduced: 2018

Change: No change

Associated Proj: N/A

Program Area: Airport

Managing Dept: Airport

Manager: J. Rivera

Plan Conformance:

Comprehensive Plan 6.1.4

Airport Strategic Plan - Obj. 3

Airport Master Plan

Est. Start: 7/1/2018

Est. Complete: 6/30/2019



Description:

Installation of fiber lines throughout the airport. This will expand and enhance the existing network infrastructure throughout the airport. This project will allow current and future access control components to be hardwired, improving the sustainability and longevity of the system.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | 24 | 140 | - | - | - | - | - | 164 |
| Total Cost | 24 | 140 | - | - | - | - | - | 164 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | 24 | 9 | - | - | - | - | - | 33 |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | 131 | - | - | - | - | - | 131 |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 24 | 140 | - | - | - | - | - | 164 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

A-085 Installation of Backup Generators

Year Introduced: 2018

Change: No change

Associated Proj: N/A

Program Area: Airport

Managing Dept: Airport

Manager: J. Rivera

Plan Conformance:

Comprehensive Plan 6.1.4

Airport Strategic Plan - Obj. 2

Airport Master Plan

Est. Start: 7/1/2020

Est. Complete: 6/30/2021



Description:

Purchase and install a back-up generator for the airfield lighting (80KW) system that includes runway 16L/34R and Taxiway B. This generator would also be a back-up for the PAPIs, wind cone, and the MALSR. A second generator would be purchased and installed for the airport terminal building (120KW). This generator would allow the terminal building to have continuing operations if electrical power was lost, as well as be used by the city for an emergency operations center if necessary.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | 250 | - | - | - | 300 | 550 |
| Total Cost | - | - | 250 | - | - | - | 300 | 550 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | 50 | - | - | - | 60 | 110 |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | 200 | - | - | - | 240 | 440 |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | 250 | - | - | - | 300 | 550 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

A-086 Taxiway G and Taxilane Y Construction

Year Introduced: 2019

Change: No change

Associated Proj: N/A

Program Area: Airport

Managing Dept: Airport

Manager: J. Rivera

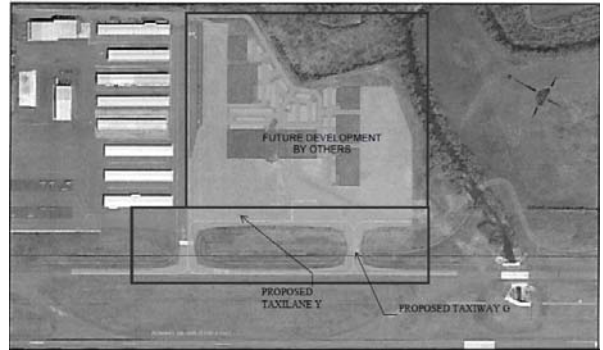
Plan Conformance:

Comprehensive Plan 6.1.4

Airport Master Plan

Airport Strategic Plan

Est. Start: 11/1/2018
Est. Complete: 11/1/2019



Description:

This project projects includes the design and construction of Taxiway G and Taxilane Y that will serve the South East Corporate pad site. This project will provide a circular traffic pattern from Taxiway B and open the southernmost portion of the site to develop additional corporate hangars. This projects includes new pavements, signs, stormwater BMPs, and drainage structures.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | 233 | - | - | - | - | - | - | 233 |
| Land | - | - | - | - | - | - | - | - |
| Construction | 60 | 2,648 | - | - | - | - | - | 2,708 |
| Total Cost | 293 | 2,648 | - | - | - | - | - | 2,941 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|------------|--------------|---|---|---|---|---|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | 6 | - | - | - | - | - | - | 6 |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | 23 | - | - | - | - | - | - | 23 |
| Federal | 264 | 2,648 | - | - | - | - | - | 2,912 |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | 293 | 2,648 | - | - | - | - | - | 2,941 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

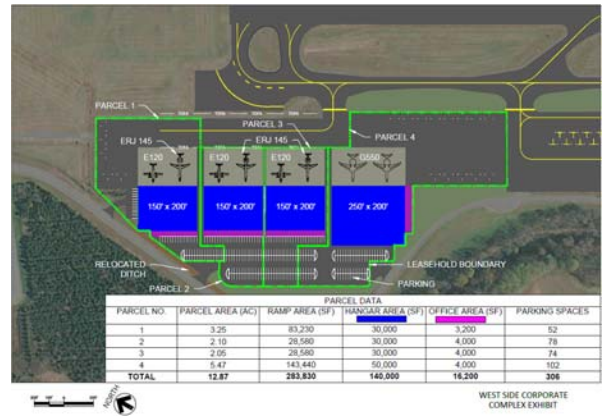
A-087 West Corporate Development Site / Drainage Improvements

Year Introduced: 2020
Change: New Project
Associated Proj: A-087
Program Area: Airport
Managing Dept: Airport
Manager: J. Rivera

Plan Conformance:

Comprehensive Plan 6.1.4
 Airport Master Plan
 Airport Strategic Plan

Est. Start: 9/1/2019
Est. Complete: 6/30/2020



Description:

This project would include the demolition of hangars and building facilities, draining, stormwater and grading improvements on 10 acres located on the North West side of the Airport for future development of corporate hangar facilities.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | 1,000 | - | - | - | - | - | 1,000 |
| Total Cost | - | 1,000 | - | - | - | - | - | 1,000 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|---|--------------|---|---|---|---|---|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | 200 | - | - | - | - | - | 200 |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | 800 | - | - | - | - | - | 800 |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | 1,000 | - | - | - | - | - | 1,000 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

AIRPORT MAINTENANCE CAPITAL PROJECT LISTING

(\$ in Thousands)

The City identifies Capital Projects as projects with a cost greater than \$100,000 and a useful life of 10+ years. The City recognizes that there are additional projects/needs that are capital in nature but do not meet the requirement set forth for a capital project. These additional projects/needs are considered Maintenance Capital Projects, a list of which is provided below for the Airport Program.

| Project Name | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|---------------------------|----------------|------------|------------|------------|------------|------------|-----------|------------------|---------------|
| Airport Paving Program (| 326 | 120 | 120 | 120 | 120 | 120 | - | 926 | 600 |
| Master Plan Study | - | - | 600 | - | - | - | - | 600 | 600 |
| Airport Alternative Energ | - | - | - | - | - | - | 35 | 35 | - |
| Midfield Ditch Restoratio | - | - | 50 | - | - | - | - | 50 | 50 |
| Airfield Paving Program | 40 | 100 | 100 | 100 | 100 | 100 | - | 540 | 500 |
| Total Cost | 366 | 220 | 870 | 220 | 220 | 220 | 35 | 2,151 | 1,750 |

Funding Sources

| | | | | | | | | | |
|----------------------|------------|------------|------------|------------|------------|------------|-----------|--------------|--------------|
| General Fund | - | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - | - |
| Airport Fund | 137 | 44 | 106 | 44 | 44 | 44 | 7 | 426 | 282 |
| School Fund | - | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | - | - | - |
| State | 229 | 176 | 224 | 176 | 176 | 176 | 28 | 1,185 | 928 |
| Federal | - | - | 540 | - | - | - | - | 540 | 540 |
| NVTA | - | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - | - |
| Total Funding | 366 | 220 | 870 | 220 | 220 | 220 | 35 | 2,151 | 1,750 |

SCHOOLS PROGRAM

The Manassas City Public Schools aims to be a center of excellence, innovation, and hope and is committed to success for all students. In order to meet this goal, the School System must maintain its infrastructure (the school buildings) and plan for the future construction of new schools to meet the increasing student population.

The Manassas City Public School System is comprised of five elementary schools (George C. Round, Baldwin, R. C. Haydon, Jennie Dean, and Weems), one intermediate school (Mayfield), one middle school (Metz), and one high school (Osborn). Elementary Schools represent grades Pre-K thru 4th grade. The Intermediate School is grades 5 and 6 while Metz Middle School is grades 7 and 8. Osborn High School is grades 9-12.

| School | Opened | Enrollment |
|------------------------------|-----------|------------|
| Jennie Dean Elementary | 1977 | 695 |
| Weems Elementary | 1977 | 743 |
| Osborn High School | 1977 | 2,145 |
| R. C. Haydon Elementary | 1979 | 577 |
| George C. Round Elementary | 1986 | 567 |
| Metz Middle School | 1990 | 1,025 |
| Mayfield Intermediate School | 2006 | 1,109 |
| Baldwin Elementary School | 2017 | 708 |
| Baldwin Intermediate School | Fall 2017 | n/a |

All but three of the City's schools are over 25 years old. Additions and improvements have been made to the schools over the years but many improvements are still needed such as HVAC, security, parking lots, flooring, etc.

PRIOR YEAR ACCOMPLISHMENTS

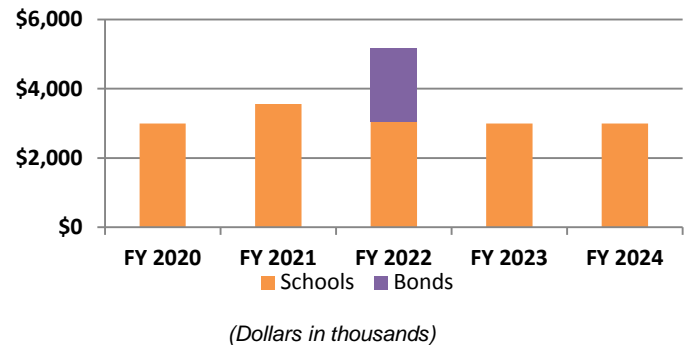
Continued district wide technology improvements, school bus replacements and school bus additions.



THE FIVE YEAR PLAN (FY 2020 – FY 2024)

The FY 2020 Five-Year Capital Improvement Program (CIP) includes \$15,606,000 in School Funds and \$2,141,000 in Bonds.

FY 2020 Funding consists of a \$3,000,000 transfer from School Funds.



FY 2020 CAPITAL PROJECTS

Division Wide

- Technology Upgrades (0102)
- School Bus Replacements (0103)
- School Bus Additions (0105)



Round Elementary

- Phased BAS/HVAC Replacement (1004)

NEW PROJECTS

District Wide – Classroom Trailers (0101)

District Wide – Restroom Refurbishment (0106)

Osborn – Cooling Tower/Chiller Replacement (0415)

Osborn – Restroom Refurbishment (0416)

Metz – Classroom Flooring Replacement (0511)

SUMMARY OF SCHOOL CAPITAL & MAINTENANCE PROJECTS

(\$ in Thousands)

| Cost Estimates: | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|---------------------------|------------------------|----------------|----------------|----------------|----------------|----------------|---------------|--------------------------|-----------------------|
| Planning | - | - | 500 | - | - | - | - | 500 | 500 |
| Land | - | - | - | - | - | - | - | - | - |
| Construction | - | 3,000 | 3,057 | 5,190 | 3,000 | 3,000 | 76,677 | 93,924 | 17,247 |
| Total Cost | - | 3,000 | 3,557 | 5,190 | 3,000 | 3,000 | 76,677 | 94,424 | 17,747 |
| Funding Sources: | | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - | - |
| School Fund | - | 3,000 | 3,557 | 3,049 | 3,000 | 3,000 | 450 | 16,056 | 15,606 |
| Bonds | - | - | - | 2,141 | - | - | 76,227 | 78,368 | 2,141 |
| State | - | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - | - |
| Total Funding | - | 3,000 | 3,557 | 5,190 | 3,000 | 3,000 | 76,677 | 94,424 | 17,747 |
| Operating Impacts: | | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - | - |
| Program (Costs) Saving | - | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | 166 | 166 | 2,988 | 3,320 | 332 |
| Net Revenue | - | - | - | - | 166 | 166 | 2,988 | 3,320 | 332 |

SCHOOL CAPITAL & MAINTENANCE CAPITAL PROJECT LISTING

(\$ in Thousands)

| Project Name | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project | 5-Year CIP |
|---------------------------|----------------|--------------|--------------|--------------|--------------|--------------|---------------|------------------|---------------|
| District Wide - Classroo | - | - | 200 | 250 | 250 | - | - | 700 | 700 |
| District Wide - Technolo | - | 175 | 250 | 200 | 200 | 200 | - | 1,025 | 1,025 |
| District Wide - School Bu | - | 500 | 486 | 500 | 500 | 500 | - | 2,486 | 2,486 |
| District Wide - School Bu | - | 125 | 121 | - | 125 | 125 | - | 496 | 496 |
| District Wide - Restroom | - | - | - | - | 100 | - | 300 | 400 | 100 |
| Central Office - Replace | - | - | 500 | 4,240 | 1,594 | - | - | 6,334 | 6,334 |
| Osborn - Parking Lot I | - | - | - | - | - | 250 | - | 250 | 250 |
| Osborn - Hallway Floor | - | - | - | - | - | 500 | - | 500 | 500 |
| Osborn - Cooling Towe | - | - | - | - | - | 1,000 | - | 1,000 | 1,000 |
| Osborn - Restroom Ref | - | - | - | - | 44 | 50 | - | 94 | 94 |
| Metz - Classroom Floori | - | - | - | - | - | 275 | - | 275 | 275 |
| Mayfield - Roof Replace | - | - | 2,000 | - | - | - | - | 2,000 | 2,000 |
| Haydon - Parking Lot Im | - | - | - | - | - | 100 | 150 | 250 | 100 |
| Round - Phased BAS/H | - | 2,200 | - | - | - | - | - | 2,200 | 2,200 |
| Weems - Parking Lot Im | - | - | - | - | 40 | - | - | 40 | 40 |
| Weems - Partial Mainten | - | - | - | - | 84 | - | - | 84 | 84 |
| Weems - Interior Paint | - | - | - | - | 63 | - | - | 63 | 63 |
| New Dean - Building Re | - | - | - | - | - | - | 76,227 | 76,227 | - |
| Total | - | 3,000 | 3,557 | 5,190 | 3,000 | 3,000 | 76,677 | 94,424 | 17,747 |

0101 District Wide - Classroom Trailers

Year Introduced: 2020
Change: New Project
Associated Proj: N/A
Program Area: Schools
Managing Dept: Schools
Manager: Schools
Plan Conformance:

Est. Start: 7/1/2019
Est. Complete: 6/30/2024



Description:

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | 200 | 250 | 250 | - | - | 700 |
| Total Cost | - | - | 200 | 250 | 250 | - | - | 700 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | 200 | 250 | 250 | - | - | 700 |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | 200 | 250 | 250 | - | - | 700 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

0102 District Wide - Technology Upgrades

Year Introduced: 2013

Change: No change

Associated Proj: N/A

Program Area: Schools

Managing Dept: Schools

Manager: Schools

Plan Conformance:

Comprehensive Plan 7.1

Est. Start: 7/1/2015

Est. Complete: 6/30/2024



Description:

Information technology infrastructure upgrades based on technology planning. The systematic replacement of network infrastructure is necessary as devices reach the end of their useful lives and become obsolete. This project will encompass the refresh of routers, switches, wireless access points, and data center major systems and components.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | 175 | 250 | 200 | 200 | 200 | - | 1,025 |
| Total Cost | - | 175 | 250 | 200 | 200 | 200 | - | 1,025 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|---|------------|------------|------------|------------|------------|---|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | 175 | 250 | 200 | 200 | 200 | - | 1,025 |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | 175 | 250 | 200 | 200 | 200 | - | 1,025 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

0103 District Wide - School Bus Replacements

Year Introduced: 2013

Change: No change

Associated Proj: N/A

Program Area: Schools

Managing Dept: Schools

Manager: Schools

Plan Conformance:

Comprehensive Plan 7.1

Est. Start: 7/1/2016

Est. Complete: 6/30/2024



Description:

Five-year replacement cycle of existing school buses as recommended by the Transportation Director.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | 500 | 486 | 500 | 500 | 500 | - | 2,486 |
| Total Cost | - | 500 | 486 | 500 | 500 | 500 | - | 2,486 |

Funding Sources: (\$ in 1,000s)

| | | | | | | | | |
|----------------------|---|------------|------------|------------|------------|------------|---|--------------|
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | 500 | 486 | 500 | 500 | 500 | - | 2,486 |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | 500 | 486 | 500 | 500 | 500 | - | 2,486 |

Operating Impacts: (\$ in 1,000s)

| | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

0105 District Wide - School Bus Additions

Year Introduced: 2017

Change: Increased Estimate

Associated Proj: N/A

Program Area: Schools

Managing Dept: Schools

Manager: Schools

Plan Conformance:

Comprehensive Plan 7.1

Est. Start: 7/1/2017

Est. Complete: 6/30/2024



Description:

Add school buses to the existing fleet due to local population growth and enrollment projections.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | 125 | 121 | - | 125 | 125 | - | 496 |
| Total Cost | - | 125 | 121 | - | 125 | 125 | - | 496 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | 125 | 121 | - | 125 | 125 | - | 496 |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | 125 | 121 | - | 125 | 125 | - | 496 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

0106 District Wide - Restroom Refurbishment

Year Introduced: 2020
Change: New Project
Associated Proj: N/A
Program Area: Schools
Managing Dept: Schools
Manager: Schools
Plan Conformance:

Est. Start: 7/1/2022
Est. Complete: 6/30/2023



Description:

Refurbish restrooms throughout the district.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | 100 | - | 300 | 400 |
| Total Cost | - | - | - | - | 100 | - | 300 | 400 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | 100 | - | 300 | 400 |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | 100 | - | 300 | 400 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

0201 Central Office - Replacement

Year Introduced: 2011

Change: Funding to Later Year

Associated Proj: N/A

Program Area: Schools

Managing Dept: Schools

Manager: Schools

Plan Conformance:

Comprehensive Plan 7.1

Est. Start: 7/1/2021

Est. Complete: 6/30/2024



Description:

A new facility for the school division central administration offices. The division is currently leasing office space at 8700 Centreville Road; the lease expires in 2023.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | 500 | - | - | - | - | 500 |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | 4,240 | 1,594 | - | - | 5,834 |
| Total Cost | - | - | 500 | 4,240 | 1,594 | - | - | 6,334 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | 500 | 2,099 | 1,594 | - | - | 4,193 |
| Bonds | - | - | - | 2,141 | - | - | - | 2,141 |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | 500 | 4,240 | 1,594 | - | - | 6,334 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | 166 | 166 | 2,988 | 3,320 |
| Net Revenue | - | - | - | - | 166 | 166 | 2,988 | 3,320 |

0407 Osbourn - Parking Lot Improvements

Year Introduced: 2013

Change: Funding to Later Year

Associated Proj: N/A

Program Area: Schools

Managing Dept: Schools

Manager: Schools

Plan Conformance:

Comprehensive Plan 7.1

Est. Start: 7/1/2015

Est. Complete: 6/30/2023



Description:

Repave parking surface, replace broken curbs, and stripe the entire parking surface at Osbourn High School.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | - | 250 | - | 250 |
| Total Cost | - | - | - | - | - | 250 | - | 250 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | 250 | - | 250 |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | 250 | - | 250 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

0414 Osbourn - Hallway Floor Replacement

Year Introduced: 2019

Change: Increased Estimate

Associated Proj: N/A

Program Area: Schools

Managing Dept: Schools

Manager: Schools

Plan Conformance:

Est. Start: 7/1/2023
Est. Complete: 6/30/2024



Description:

Replace hallway floor at Osbourn High School.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | - | 500 | - | - |
| Total Cost | - | - | - | - | - | 500 | - | 500 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | 500 | - | 500 |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | 500 | - | 500 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

0415 Osbourn - Cooling Tower & Chiller Replacement

Year Introduced: 2020
Change: New Project
Associated Proj: N/A
Program Area: Schools
Managing Dept: Schools
Manager: Schools
Plan Conformance:

Est. Start: 7/1/2023
Est. Complete: 6/30/2024



Description:

Replace cooling tower and chiller at Osbourn High School.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | - | 1,000 | - | 1,000 |
| Total Cost | - | - | - | - | - | 1,000 | - | 1,000 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | 1,000 | - | 1,000 |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | 1,000 | - | 1,000 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

0416 Osbourn - Restroom Refurbishment

Year Introduced: 2020
Change: New Project
Associated Proj: N/A
Program Area: Schools
Managing Dept: Schools
Manager: Schools
Plan Conformance:

Est. Start: 7/1/2022
Est. Complete: 6/30/2024



Description:

Refurbish restrooms at Osbourn High School.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | 44 | 50 | - | 94 |
| Total Cost | - | - | - | - | 44 | 50 | - | 94 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | 44 | 50 | - | 94 |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | 44 | 50 | - | 94 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

0511 Metz - Classroom Flooring Replacement

Year Introduced: 2020
Change: New Project
Associated Proj: N/A
Program Area: Schools
Managing Dept: Schools
Manager: Schools
Plan Conformance:

Est. Start: 7/1/2023
Est. Complete: 6/30/2024



Description:

Replace classroom flooring at Metz Middle School.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | - | 275 | - | 275 |
| Total Cost | - | - | - | - | - | 275 | - | 275 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | 275 | - | 275 |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | 275 | - | 275 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

0603 Mayfield - Roof Replacement

Year Introduced: 2018

Change: Funding to Later Year

Associated Proj: N/A

Program Area: Schools

Managing Dept: Schools

Manager: Schools

Plan Conformance:

Est. Start: 7/1/2020
Est. Complete: 6/30/2021



Description:

Replace roof at Mayfield Intermediate School.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | 2,000 | - | - | - | - | 2,000 |
| Total Cost | - | - | 2,000 | - | - | - | - | 2,000 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | 2,000 | - | - | - | - | 2,000 |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | 2,000 | - | - | - | - | 2,000 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

0907 Haydon - Parking Lot Improvements

Year Introduced: 2019

Change: No change

Associated Proj: N/A

Program Area: Schools

Managing Dept: Schools

Manager: Schools

Plan Conformance:

Est. Start: 7/1/2023
Est. Complete: 6/30/2024



Description:

Parking lot improvements to Haydon Elementary School.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | - | 100 | 150 | 250 |
| Total Cost | - | - | - | - | - | 100 | 150 | 250 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | 100 | 150 | 250 |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | 100 | 150 | 250 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

1004 Round - Phased BAS/HVAC Replacement

Year Introduced: 2019

Change: No change

Associated Proj: N/A

Program Area: Schools

Managing Dept: Schools

Manager: Schools

Plan Conformance:

Est. Start: 7/1/2019
Est. Complete: 6/30/2020



Description:

Replace phased BAS/HVAC at Round Elementary School.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | 2,200 | - | - | - | - | - | 2,200 |
| Total Cost | - | 2,200 | - | - | - | - | - | 2,200 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | 2,200 | - | - | - | - | - | 2,200 |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | 2,200 | - | - | - | - | - | 2,200 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

1101 Weems - Parking Lot Improvements

Year Introduced: 2014

Change: Funding to Later Year

Associated Proj: N/A

Program Area: Schools

Managing Dept: Schools

Manager: Schools

Plan Conformance:

Comprehensive Plan 7.1

Est. Start: 7/1/2022

Est. Complete: 6/30/2023



Description:

Repave asphalt surface, modify bus loop, replace broken curbs, and stripe the entire parking surface at Weems Elementary School. The parking surface is wearing with age and use.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | 40 | - | - | 40 |
| Total Cost | - | - | - | - | 40 | - | - | 40 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | 40 | - | - | 40 |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | 40 | - | - | 40 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

1105 Weems - Partial Maintenance Roof

Year Introduced: 2017

Change: No change

Associated Proj: N/A

Program Area: Schools

Managing Dept: Schools

Manager: Schools

Plan Conformance:

Comprehensive Plan 7.1

Est. Start: 7/1/2022

Est. Complete: 6/30/2023



Description:

Perform partial maintenance on the flat roofs near the entrances of Weems Elementary. Improvements recommended by City Gate Facilities Plan FY 2016.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | 84 | - | - | 84 |
| Total Cost | - | - | - | - | 84 | - | - | 84 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | 84 | - | - | 84 |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | 84 | - | - | 84 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

1106 Weems - Interior Paint

Year Introduced: 2017

Change: No change

Associated Proj: N/A

Program Area: Schools

Managing Dept: Schools

Manager: Schools

Plan Conformance:

Comprehensive Plan 7.1

Est. Start: 7/1/2022

Est. Complete: 6/30/2023



Description:

Paint Weems Elementary as recommended by City Gate Facilities Plan FY 2016.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | 63 | - | - | 63 |
| Total Cost | - | - | - | - | 63 | - | - | 63 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | 63 | - | - | 63 |
| Bonds | - | - | - | - | - | - | - | - |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | 63 | - | - | 63 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

1301 New Dean - Building Replacement

Year Introduced: 2014

Change: Funding to Later Year

Associated Proj: C-017

Program Area: Schools

Managing Dept: Schools

Manager: Schools

Plan Conformance:

Comprehensive Plan 7.1

Est. Start: 7/1/2018
Est. Complete: 6/30/2023



Description:

Construct new school - Dean.

Original construction is 1958 and replacement was one of the recommended options in the 2002 Facility Master Plan. Several systems were replaced in 2003, which extended the usefulness of the building.

| Cost Estimate: (\$ in 1,000s) | Prior Years | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Future | Total Project |
|--|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------------|
| Planning | - | - | - | - | - | - | - | - |
| Land | - | - | - | - | - | - | - | - |
| Construction | - | - | - | - | - | - | 76,227 | 76,227 |
| Total Cost | - | - | - | - | - | - | 76,227 | 76,227 |
| Funding Sources: (\$ in 1,000s) | | | | | | | | |
| General Fund | - | - | - | - | - | - | - | - |
| Sewer Fund | - | - | - | - | - | - | - | - |
| Water Fund | - | - | - | - | - | - | - | - |
| Electric Fund | - | - | - | - | - | - | - | - |
| Stormwater Fund | - | - | - | - | - | - | - | - |
| Airport Fund | - | - | - | - | - | - | - | - |
| School Fund | - | - | - | - | - | - | - | - |
| Bonds | - | - | - | - | - | - | 76,227 | 76,227 |
| State | - | - | - | - | - | - | - | - |
| Federal | - | - | - | - | - | - | - | - |
| NVTA | - | - | - | - | - | - | - | - |
| Other Sources | - | - | - | - | - | - | - | - |
| Total Funding | - | - | - | - | - | - | 76,227 | 76,227 |
| Operating Impacts: (\$ in 1,000s) | | | | | | | | |
| Revenue | - | - | - | - | - | - | - | - |
| Staffing (Costs) Savings | - | - | - | - | - | - | - | - |
| Facility (Costs) Savings | - | - | - | - | - | - | - | - |
| Program (Costs) Savings | - | - | - | - | - | - | - | - |
| Debt Service | - | - | - | - | - | - | - | - |
| Net Revenue | - | - | - | - | - | - | - | - |

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MOTION: WOLFE

**May 13, 2019
Regular Meeting
Res No. R-2019-55**

SECOND: SEBESKY

**RE: RESOLUTION APPROVING THE CITY OF MANASSAS FISCAL YEAR 2020 FIVE-YEAR
CAPITAL IMPROVEMENT PROGRAM**


WHEREAS, the City of Manassas Planning Commission reviewed the FY 2020-2024 Five-Year Capital Improvement Program (CIP) on January 23, 2019 and approved the CIP on January 30, 2019; and

WHEREAS, the School Board of the Manassas City Public Schools approved the Manassas City Schools CIP on March 26, 2019, and presented it to the City Council on April 3, 2019; and

WHEREAS, the Manassas City Schools CIP is incorporated into the City of Manassas CIP; and

WHEREAS, the City Council held a public hearing on the CIP on April 29, 2019.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the City of Manassas meeting in regular session this 13th day of May, 2019, that the City of Manassas FY 2020 Five-Year Capital Improvement Program containing capital projects necessary for the betterment of the community, is hereby approved.


Harry J. Parrish II Mayor
On Behalf of the City Council
of Manassas, Virginia

ATTEST:


Lee Ann Henderson City Clerk

Votes:

Ayes: Davis-Younger, Elston, Sebesky, and Wolfe

Nays: Ellis and Lovejoy

Absent from Vote: None

Absent from Meeting: None

**PLANNING COMMISSION
RESOLUTION**

Re: City of Manassas FY2020-2024 – Capital Improvement Program (CIP)

WHEREAS, the Planning Commission annually reviews and provides recommendations to the City Manager on the department recommended Capital Improvement Program in accordance with Section 15.2-2239 of the Code of Virginia;

WHEREAS, the Planning Commission is responsible for review of all proposed Capital Improvement Program projects for conformance with the adopted Comprehensive Plan in accordance with Section 15.2-2232 of the Code of Virginia; and

WHEREAS, the Planning Commission's CIP Committee held a worksession to review new projects in the the proposed FY2020-2024 CIP on January 23, 2019.

NOW THEREFORE BE IT RESOLVED, that the Planning Commission does hereby **RECOMMEND APPROVAL** of the FY2020-2024 CIP, as submitted to the City Manager, on this the 30th day of January 2019.

30 Jan 19

Date

Harry J. Clark
Chairperson

GLOSSARY

Ad Valorem – The application of a rate percent of value. Taxes are imposed at a rate percentage of the value of goods.

Appropriation – Authorization of the City Council to incur obligations for specific purposes. Appropriations are limited to amount, purpose, and time. All appropriations of the City Council lapse at June 30th as provided in the Code of Virginia.

Bond – A written promise to pay a designated sum of money (principal) as a specific date in the future, as well as periodic interest at a specified rate. The payments on bonds are identified as debt service.

Bond Proceeds – The money paid to the issuer by the purchaser or underwriter of a new issue of municipal securities. These moneys are used to finance the project or purpose for which the securities were issued and to pay certain costs of issuance as may be provided in the bond contract.

Bond Ratings – Rate given to a government by a third party agency to signify the government's capacity and willingness to repay its debt. In rating municipalities for the issuance of general obligation debt, credit rating agencies (Standard & Poor's, Moody's, Fitch) consider factors that are considered especially relevant to a government's "capacity and willingness" to repay its debt: (1) the local economic base including local employment, taxes, and demographics (for example, age, education, income level, and skills of the local population); (2) financial performance and flexibility including accounting and reporting methods, revenue and expenditure structure and patterns, annual operating and budgetary performance, financial leverage and equity position, budget and financial planning, and contingency financial obligations such as pension liability funding; (3) debt burden; and (4) administration including local autonomy and discretion regarding financial affairs, background and experience of key administrative officials, and frequency of elections. Bond ratings impact the interest rate and the cost of debt service in the operating budget.

Bonding Power – Power of government to borrow money.

Bonds – Type of security sold to finance capital improvement projects.

Budget – Financial plan for a specified period of time (fiscal year) that matches all planned revenues and expenditures with various municipal services. The budget is the primary tool by which most of the financing, acquisition, spending, and service delivery activities of a government are planned and controlled.

Budget Resolution – Method used by the City to establish and amend the budget.

Capital Improvement Program – A plan for future capital project expenditures. The multi-year plan serves as a roadmap for creating, maintaining, and funding present and future infrastructure requirements. The Capital Program addresses needs relating to the acquisition, expansion, and rehabilitation of long-lived facilities and systems. It serves as a planning instrument to identify needed capital projects and coordinate the financing and timing of these improvements.

Capital Project – Major construction, acquisition, or renovation activities which add value to a government's physical assets or significantly increase their useful life. In order to be a capital project, a project must have a cost greater than \$100,000 and a useful life of more than 10 years. If a project does not meet the criteria, it is considered to be a maintenance capital project.

Capital Projects Funds – Funds, defined by the State Auditor of Public Accounts, which account for the acquisition and/or construction of major capital facilities or capital improvements. These funds can include maintenance and renovation of capital facilities.

Clean Water Act (CWA) – Regulation passed in 1972 that establishes the basic structure for regulating discharges of pollutants into the waters of the United States and regulating quality standards for surface waters. Under the act, the EPA has implemented pollution control programs and set water quality standards for all contaminants in surface waters. For additional information visit the EPA's website at <http://www2.epa.gov/laws-regulations/summary-clean-water-act>.

Code of Virginia – Laws of the Commonwealth of Virginia

Costs of Issuance – The expenses associated with the sale of a new issue of municipal securities, including such items as printing, legal and rating agency fees, and others.

GLOSSARY

Debt – Obligation or something owed to someone else.

Debt Limit – The maximum amount of debt which an issuer of municipal securities is permitted to incur under constitutional, statutory or charter provisions

Debt Service – Annual payment of principal and interest on the City's bonds

District of Columbia – Washington, D.C. – the capital of the United States

Encumbrance – Obligation against budgeted funds in the form of a purchase order or contract

Expenditure – Cost of goods or services as recorded on a modified accrual basis of accounting

Feasibility – Degree to which something can be achieved

Financial Policy – City's policy with respect to taxes, spending, and debt management as related to the provision of City services, programs, and capital investment

Fund – Independent fiscal and accounting entity with a self-balancing set of accounts recording its assets, liabilities, fund balance/net assets, revenues, and expenditures/expenses

General Obligation Bond – Full faith and credit of the City, through its taxing authority, guarantees the principal and interest payments on debt

Grant – Cash award given by a government to a public agency in a lower level of government or special recipient for a specialized purpose

Levy – Impose or collect

Issuing Bonds – To "issue" bonds means to sell, deliver, and receive payment for bonds

Long-Term Debt – Debt with a maturity of more than one year after the date of issuance.

Maintenance Capital Project – A project that is capital in nature but does not meet the cost and/or useful life criteria of a capital project (i.e. cost is less than \$100,000 and/or the useful life is less than 10 years).

Pay-As-You-Go Financing – The portion of capital outlay which is financed from current revenue from the general fund, rather than by borrowing.

Referendum – A means by which a legislative body requests the electorate to approve or reject proposals such as constitutional amendments, long-term borrowing, and other special laws.

Refunding – A procedure whereby an issuer refinances an outstanding bond issue by issuing new bonds.

Short-Term Debt – Debt with a maturity of less than one year after the date of issuance.

Strategic Planning – Continuous and systematic process whereby guiding members of the City make decisions about its future, develop the necessary procedures and operations to achieve in the future, and determine how success will be measured

Total Maximum Daily Load – the calculation of the maximum amount of pollution a body of water can receive and still meet state water quality standards designed to ensure waterways meet a national primary goal of being swimmable and fishable.

ACRONYMS

ADA – Americans with Disability Act – Federal law that prohibits discrimination and ensures equal opportunity for persons with disabilities in employment, state and local government services, public accommodations, commercial facilities, and transportation

ADT – Average daily traffic as calculated by the Virginia Department of Transportation

AMI – Advanced Meter Infrastructure – Technology for gathering and disseminating information at a utility meter

BBJ – Boeing Business Jet – Commercial airplane

CIP – Capital Improvement Program – List of capital projects that are anticipated and scheduled over a five-year period

CPSC – United States Consumer Product Safety Commission – federal agency charged with protecting the public from unreasonable risks of injury or death associated with the use of thousands of types of consumer products under the agency's jurisdiction

DEQ – Department of Environmental Quality – State agency that oversees environmental protection services

EA – Environmental Assessment

EPA – Environmental Protection Agency – Federal agency to protect the human health and the environment

FAA – Federal Aviation Administration – Federal agency charged with regulating aircraft, airports, and all other aspects of air travel.

FBO – Fixed-Base Operator – A commercial business granted the right by an airport to operate on the airport and provide aeronautical services

FONSI – Finding of No Significant Impact – Issued when environmental analysis and interagency review during the Environmental Assessment process find a project to have no significant impacts on the quality of the environment

F/R – Fire & Rescue

FY – Fiscal Year – A 12-month period to which the annual operating budget applies. The City's fiscal year is July 1st through June 30th

HOA – Homeowner's Association – Neighborhood-based organization of residents that agree to certain standards regarding the appearances and composition of their property within the neighborhood

HVAC – Heating, Ventilation, and Air Conditioning

I&I – Inflow & Infiltration – Flow of storm drainage into the sewer collection system. A high I&I is not desirable because the storm drainage is sent to the sewer processing plant with the sewage and therefore drives up the cost of sewer treatment.

IT – Information Technology

kV – Kilovolt – a unit of electromotive force

LED – Light-emitting diode – A semiconductor diode that emits light when conducting current and is used in electronic displays and both indoor and outdoor lighting

MALS – Medium Approach Lighting System – Lighting system installed in airport runway approach zones along the extended centerline of the runway

MCPS – Manassas City Public Schools

mgd – Million gallons per day as it relates to water service

ACRONYMS

NFPA – National Fire Protection Association – A global nonprofit organization devoted to eliminating death, injury, property and economic loss due to fire, electrical, and related hazards

NOVA – Northern Virginia

NOVEC – Northern Virginia Electric Cooperative – A locally owned electric distribution system headquartered in Manassas, Virginia

NVTA – Northern Virginia Transportation Authority – A regional body responsible for long range transportation planning, prioritization, and funding for regional transportation projects in Northern Virginia.

OH – Overhead, as in overhead electric distribution services

PAPIs – Precision Approach Path Indicators – Indicators at an airport that assist in providing visual glide slope guidance in non-precision approach environments

P W & U – Public Works & Utilities, in reference to the facilities located at 8500 Public Works Drive, Manassas, VA 20110

PWCSA – Prince William County Service Authority

PWC – Prince William County

RR – Railroad

RPZ – Runway Protection Zone – An area off the runway end to enhance the protection of people and property on the ground

SLAF – Stormwater Local Assistance Fund

SWM – Stormwater Management

TMDL – Total Maximum Daily Load – The calculation of the maximum amount of pollution a body of water can receive and still meet state water quality standards designed to ensure waterways meet a national primary goal of being swimmable and fishable

UG – Underground, as in underground electric distribution services

VA – State of Virginia

VDH – Virginia Department of Health – State agency responsible with protecting the health of all Virginians

VDOT – Virginia Department of Transportation – State agency responsible for building, maintaining, and operating the state's roads, bridges, and tunnels

VMEA – Virginia Municipal Electric Association – The City is a member of the association and also refers to one of its generation plants at the VMEA Plant

VPD – Vehicles per day

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