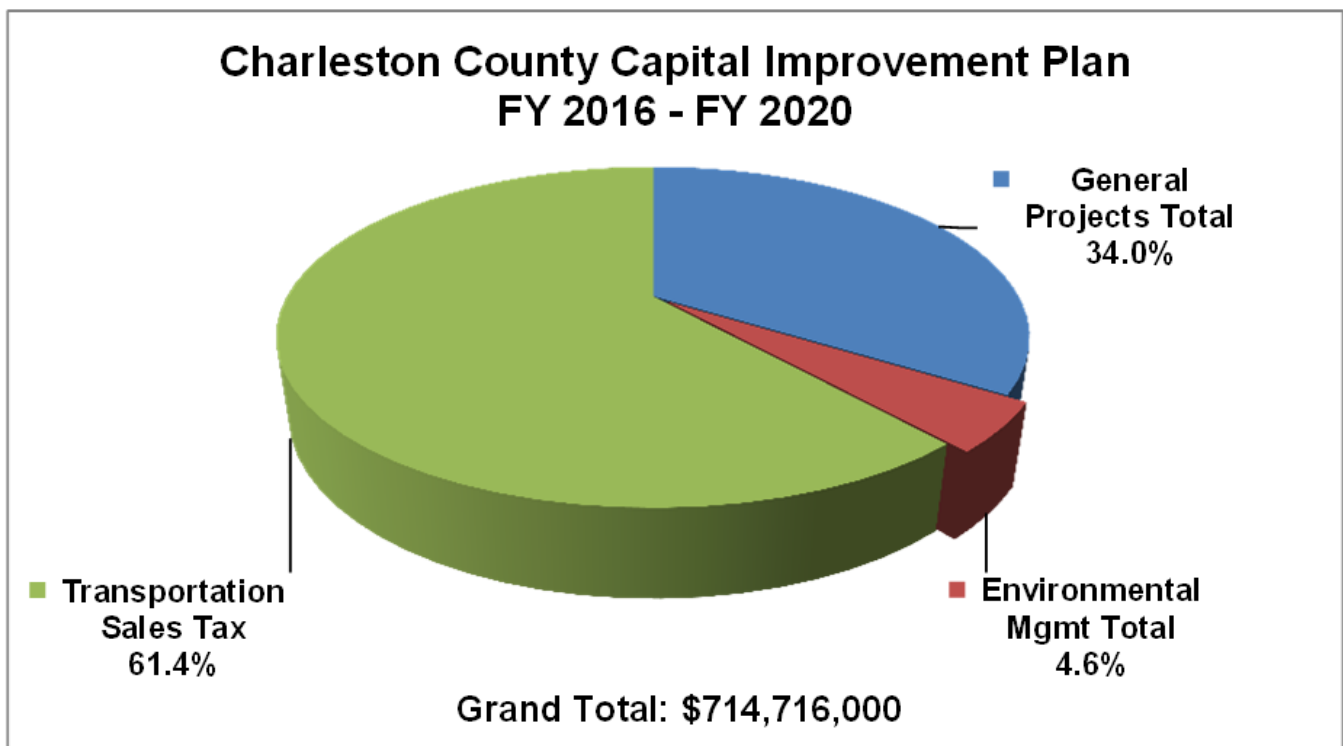


# Capital Projects - Overview

## Overview

The FY 2016 – FY 2020 Adopted five year Capital Improvement Plan contains three separately approved plans including the General Capital Improvement Plan, the Transportation Sales Tax Comprehensive Plan of Expenditures, and the Environmental Management Enterprise Fund Capital Improvement Plan. Each plan is developed separately from the other and provides detailed information about the individual projects within each plans' realm of responsibility.

The three Adopted CIPs total \$714.7 million and include \$243.1 million or 34.0 percent of the amount allocated to the General Capital Improvement Plan, \$439.1 million or 61.4 percent allocated to the Transportation Sales Tax Comprehensive Plan of Expenditures, and \$32.6 million or 4.6 percent allocated to the Environmental Management Enterprise Fund Capital Improvement Plan.



The County defines capital assets as major assets that benefit more than a single fiscal period. Typical examples are land, improvements to land, easements, buildings, vehicles, machinery equipment, computer software, and infrastructure that meet the County capitalization threshold. The capitalization threshold for various assets is as stated in the following table.

Asset Category	Items to be Capitalized
Land	All, regardless of cost.
Non-Depreciable Land Improvements	All, regardless of cost.
Depreciable Land Improvements	Any costing more than \$100,000.
Buildings and Building Improvements	Any costing more than \$100,000.
Infrastructure	Any costing more than \$100,000.
Machinery, Equipment & Vehicles	Any costing more than \$5,000.

# Capital Projects - Overview

Some capital expenditures are included within the operating budget since they are recurring or affordable on a pay-as-you-go basis. Examples of capital expenditures included in the operating budget are vehicles and equipment purchases. Following is a table summarizing capital expenditures in the operating budget.

Capital Expenditures	
General Fund	\$5,713,520
Special Revenue Funds	47,000
Enterprise Funds	4,411,900
Internal Service Funds	3,408,000
<b>Grand Total</b>	<b>\$13,580,420</b>

Charleston County's CIP is a financial management tool that assists in facility maintenance and capital development. Implementing a multi-year CIP promotes better use of the County's limited financial resources and assists in the coordination of public and private development. As a financial tool, a multi-year CIP provides early indications of major outlays and assures timely facility maintenance or replacement. In addition, five-year capital improvement plans are an integral part of long-range planning and are viewed positively by bond rating agencies.

## Financial Policies

- *Capital Improvement Policy #1: A five-year Capital Improvement Plan shall be developed and updated annually.*
- *Expenditure Policy #1... strive to provide sufficient funding for adequate maintenance of equipment and facilities at a level that protects capital investment and minimizes future maintenance and replacement costs.*

Each multi-year plan covers a five-year planning period and is updated annually to reflect ongoing changes and additions. These plans are submitted to County Council for adoption along with the County's annual budget. The five-year plans do not appropriate funds; they support the actual appropriations that are made through adoption of the budget.

## Facility Planning Committee

Early in 2003, the County Administrator established a Facility Planning Committee composed of representatives from the Building Inspections and Facilities Management Departments. The purpose of the Committee was to develop a five-year plan to address existing and future facility and capital needs.

The initial phase of development was to evaluate existing County-owned and rented facilities and land. The Committee found that the County's facilities were generally in good condition with 76 percent of the square footage having an effective age of ten years or less. The effective age was determined from original construction date or the date of major renovations. The Committee determined that the County owned some unused buildings and land. Council voted to lease portions of the unused facilities and property.

# Capital Projects - Overview

The Committee sent a survey to all department heads and elected and appointed officials requesting information about current and future service delivery and space needs. Based on the facilities evaluations and the departments' anticipated needs, the Committee prioritized projects. The main goals of the CIP was to more effectively utilize County facilities and invest in technology to better serve the County's citizens.

With assistance from the Finance and Budget Departments, the Committee balanced the identified projects with current and future financing capabilities. After identifying the projects, the committee developed the five-year plan by identifying the total cost of each selected project and the associated operating and maintenance costs. The projects were then scheduled and budgeted for the FY 2004 – FY 2008 Capital Improvement Plan.

This committee has changed over the years to consist of the Facilities Management and Budget Departments. Input is received from Technology Services, the Transportation Sales Tax departments and committees, and the Enterprise Funds (i.e. Parking Garages and Environmental Management). In addition to developing the CIPs, the Committee monitors the status of existing projects and emerging needs through periodic updates.

# Capital Projects - General

## Capital Improvement Plan – General

The County updates the CIP annually. The FY 2016–FY 2020 General Capital Improvement Plan reflects the current estimated schedule for approved projects. During the FY 2010 planning process, the County decided to expand the projects listed in the plan to include all projects that meet the county capitalization threshold. This added capital software and building improvements to the five year plan which increased the number of projects on the plan and provides a more detailed analysis of the County's capital needs.

### General Project Cost Summary \*

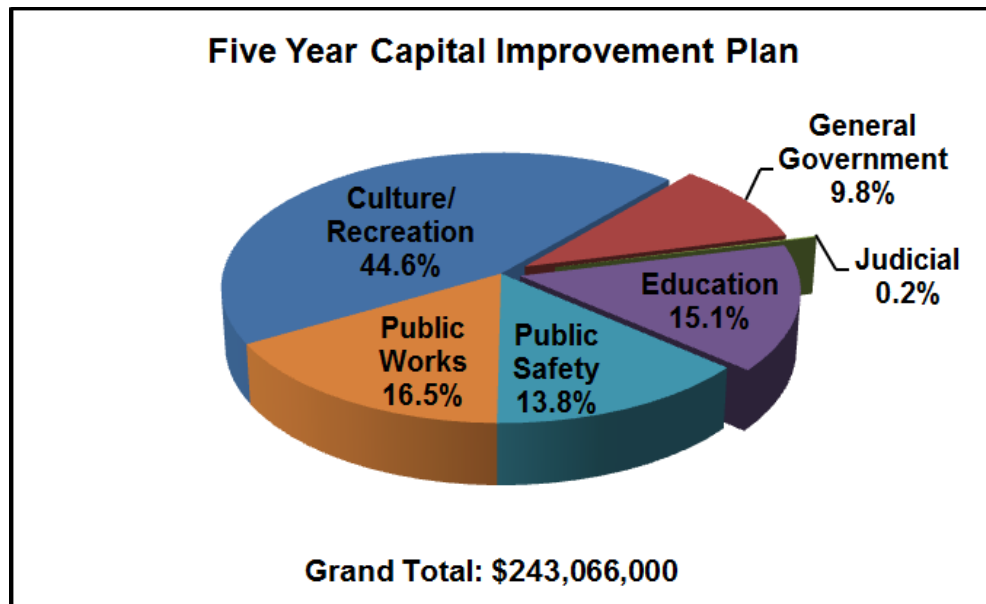
Project Title	Prior	2016	2017	2018	2019	2020	Beyond	Total
<b>CULTURE/RECREATION</b>								
Library Facilities	\$ -	\$ 3,633	\$39,162	\$37,695	\$13,127	\$14,883	\$ -	\$ 108,500
<b>Culture/Recreation Total</b>	<b>-</b>	<b>3,633</b>	<b>39,162</b>	<b>37,695</b>	<b>13,127</b>	<b>14,883</b>	<b>-</b>	<b>108,500</b>
<b>EDUCATION</b>								
Trident Aeronautical Training Facil	-	4,000	7,375	7,375	-	-	-	18,750
Trident Nursing & Science Bldg	16,733	1,267	-	-	-	-	-	18,000
<b>Education Total</b>	<b>16,733</b>	<b>5,267</b>	<b>7,375</b>	<b>7,375</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>36,750</b>
<b>GENERAL GOVERNMENT</b>								
Building Insp Energov Upgrade	25	270	-	-	-	-	-	295
DAODAS & Health relocation	168	382	-	-	-	-	-	550
Facilities maint: general	844	1,054	2,761	520	-	-	-	5,179
Facilities maint: heating/cooling	351	1,471	990	-	-	325	-	3,137
Facilities maintenance: roofing	61	904	3,780	1,000	1,000	1,000	1,000	8,745
Financial System Upgrade	-	600	-	-	-	-	-	600
Fuel upgrade - Ravenel/James Is.	-	-	-	100	100	-	-	200
Lee Building - purchase residual	-	250	-	-	-	-	-	250
Parking Garages	3,210	1,190	95	180	155	-	-	4,830
<b>General Government Total</b>	<b>4,659</b>	<b>6,121</b>	<b>7,626</b>	<b>1,800</b>	<b>1,255</b>	<b>1,325</b>	<b>1,000</b>	<b>23,786</b>
<b>JUDICIAL</b>								
Solicitor: Case Mgmt System	46	329	-	-	-	-	-	375
<b>Judicial Total</b>	<b>46</b>	<b>329</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>375</b>
<b>PUBLIC SAFETY</b>								
Awendaw Fire Station	160	578	662	-	-	-	-	1,400
Coroner Building	1,050	250	-	-	-	-	-	1,300
Juvenile Detention Center	-	-	-	-	-	-	4,750	4,750
Law Enforcement Center	13,784	716	-	-	-	-	-	14,500
Law Enforcement Training Center	-	-	-	-	-	-	500	500
Public Safety System	-	1,100	1,543	-	-	-	-	2,643
Radio replacement	-	-	-	-	-	5,000	-	5,000
Station Alerting	3,461	101	-	-	-	-	-	3,562
<b>Public Safety Total</b>	<b>18,455</b>	<b>2,745</b>	<b>2,205</b>	<b>-</b>	<b>-</b>	<b>5,000</b>	<b>5,250</b>	<b>33,655</b>
<b>PUBLIC WORKS</b>								
Public Works Compound - Azalea	-	-	-	-	-	-	40,000	40,000
<b>Public Works Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>40,000</b>	<b>40,000</b>
<b>GRAND TOTAL</b>	<b>\$ 39,893</b>	<b>\$ 18,095</b>	<b>\$ 56,368</b>	<b>\$ 46,870</b>	<b>\$ 14,382</b>	<b>\$ 21,208</b>	<b>\$ 46,250</b>	<b>\$ 243,066</b>

\*Amounts in thousands of dollars

# Capital Projects - General

Seventeen of the twenty-two projects listed in the CIP have funds appropriated for use in FY 2016.

The following graph shows the proposed projects scheduled during the five year CIP. See the Project Summary pages for project details.



Council and staff will continue to review the program, its direction, progress, and financing requirements annually.

## Financing the CIP

The funding for this plan will come from existing bond issues, transfers from the General Fund, and future bond issues. In addition, all revenues from the sale of real estate must be used for capital projects per the County Budget Ordinance and Financial Policies.

### Financial Policies

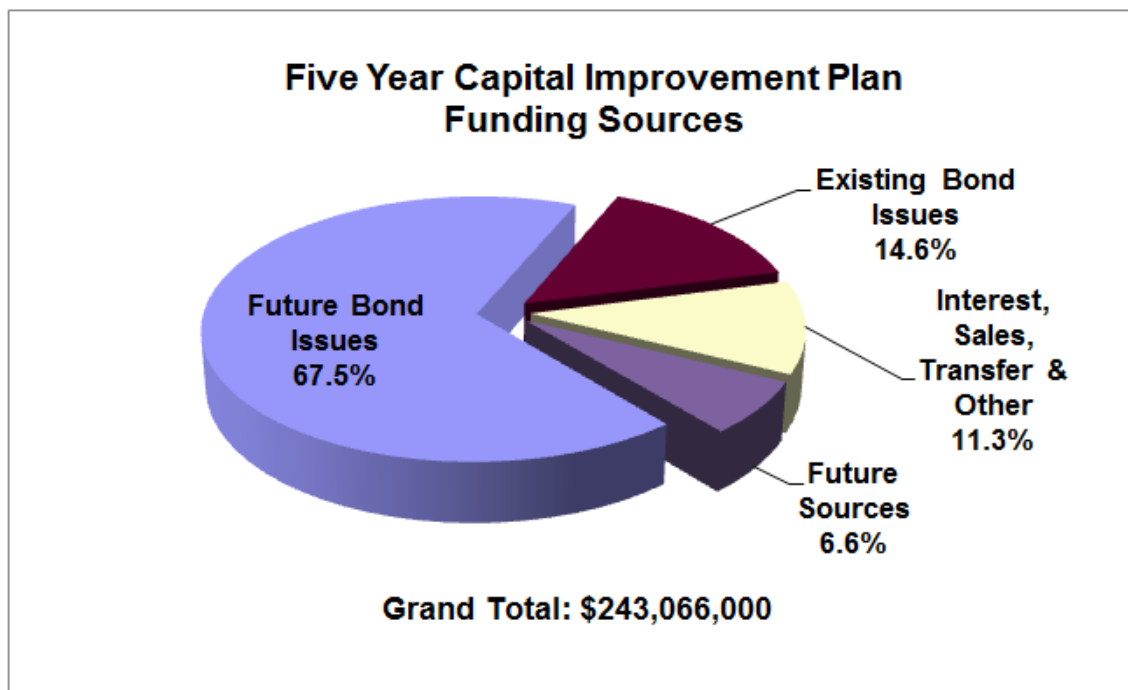
- *Capital Improvement Policy #2b: ...proceeds from the sale of real property...will be used for capital improvements...*

# Capital Projects - General

## General Project Source Summary \*

Funding Source	Prior	2016	2017	2018	2019	2020	Beyond	Total
Existing Bond Issues	\$31,994	\$ 2,811	\$ 662	\$ -	\$ -	\$ -	\$ -	\$ 35,467
Interest, Sales, Transfer & Other	7,899	11,174	8,520	-	-	-	-	27,593
Future Bond Issues	-	4,110	36,560	45,070	13,127	19,883	45,250	164,000
Future Sources	-	-	10,626	1,800	1,255	1,325	1,000	16,006
<b>GRAND TOTAL</b>	<b>\$39,893</b>	<b>\$18,095</b>	<b>\$56,368</b>	<b>\$46,870</b>	<b>\$14,382</b>	<b>\$21,208</b>	<b>\$46,250</b>	<b>\$ 243,066</b>

Seven percent of the funding associated with the five year General Capital Improvement Plan is scheduled to be applied to projects in FY 2016.



## Impact on the Operating Budget

The capital program directly impacts current and future operating budgets. The County's Financial Policies requires the County to estimate the operating revenues and costs as well as the operating costs of future capital improvements included in the Capital Improvement Plan. Charleston County has identified costs required to operate and maintain completed capital projects. In some cases, the operating costs of the project are either insignificant or are offset by cost savings.

The operating and maintenance cost is calculated on each individual project. The Facilities Management Department estimates the increased cost for administrative costs, building maintenance, utilities and security. The Safety and Risk Management Department calculates the increased insurance costs. The Technology Services Department determines the ongoing operating and update costs associated with capital management information systems. If applicable, the operating and maintenance costs are displayed in current dollars.

# Capital Projects - General

## Awendaw Fire Station

Awendaw fire truck and helmet



### Project Highlights

**Initiative:** Service Delivery

**Function:** Public Safety

**Type:** New

**Management:** Facilities  
Management

**Duration:** 2015-2017

**Total Project Cost:**  
**\$1,400,000**

### DESCRIPTION

This project will purchase property and build a new fire station. The greatest anticipated challenge will be finding a suitable site location that is strategically located in an area that will reduce response times.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$160	\$578	\$662	\$0	\$0	\$0	\$0	\$1,400

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Existing Bond Issues	\$160	\$578	\$662	\$0	\$0	\$0	\$0	\$1,400
<b>GRAND TOTAL</b>	\$160	\$578	\$662	\$0	\$0	\$0	\$0	\$1,400

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	0	10	10	10	10
<b>Grand Total</b>	\$0	\$10	\$10	\$10	\$10

*\*Amounts in thousands of dollars*

<b>Operation &amp; Maintenance Impacts</b>	Using current trends for our smaller stations, the projected yearly cost to operate the station would be \$10,000 per year
--	--

# Capital Projects - General

## Building Inspection Energov Upgrade



### Project Highlights

**Initiative:** Workflow Analysis-  
Process Management  
**Function:** General Government  
**Type:** Upgrade  
**Management:** Technology  
Services  
**Duration:** 2015 - 2016

**Total Project Cost:**  
**\$295,000**

### DESCRIPTION

Energov was implemented by the County in 2008 for use by Building Inspections, Revenue Collections and Zoning/Planning for issuing licenses and permits, collection of corresponding fees, scheduling and monitoring building inspections, and assessment and collection of the hospitality and accommodation taxes. The upgrade of this software contains many new features that will be useful for these departments.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$25	\$270	\$0	\$0	\$0	\$0	\$0	\$295

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Interest, Sales, Transfer & Other	\$25	\$270	\$0	\$0	\$0	\$0	\$0	\$295
<b>GRAND TOTAL</b>	\$25	\$270	\$0	\$0	\$0	\$0	\$0	\$295

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	0	0	0	0	0
<b>Grand Total</b>	\$0	\$0	\$0	\$0	\$0

*\*Amounts in thousands of dollars*

<b>Operation &amp; Maintenance Impacts</b>	<i>There are no significant additional operating or maintenance costs or savings due to this project.</i>
--	---



# Capital Projects - General

## Coroner Building



*Potential site of the new Coroner building*

### Project Highlights

**Initiative:** Service Delivery

**Function:** Public Safety

**Type:** New

**Management:** Facilities  
Management

**Duration:** 2015-2016

**Total Project Cost:**  
**\$1,300,000**

### DESCRIPTION

This project will relocate the Coroner's Office to a larger facility to address an increasing workload, a growing population and to comply with increasing regulations and requirements. The new facility will provide the Coroner with additional resources to serve the public.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$1,050	\$250	\$0	\$0	\$0	\$0	\$0	\$1,300

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Interest, Sales, Transfer & Other	\$1,050	\$250	\$0	\$0	\$0	\$0	\$0	\$1,300
<b>GRAND TOTAL</b>	\$1,050	\$250	\$0	\$0	\$0	\$0	\$0	\$1,300

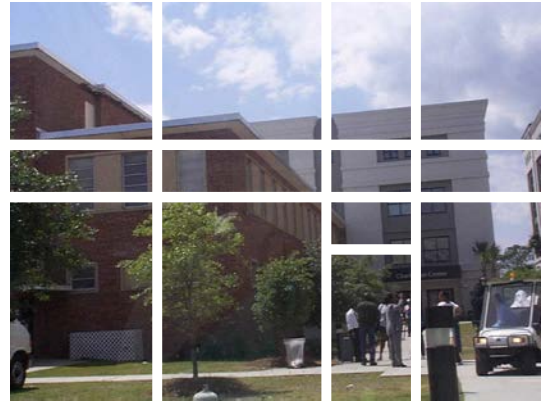
O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	50	50	50	50	50
<b>Grand Total</b>	\$50	\$50	\$50	\$50	\$50

*\*Amounts in thousands of dollars*

<b>Operation &amp; Maintenance Impacts</b>	O&M costs include utility costs and facilities maintenance costs. These additional costs are included in the FY 2016 Facilities Management budget.
--	--

# Capital Projects - General

## DAODAS & Health Relocation



*Current Charleston Center*

### Project Highlights

**Initiative:** Service Delivery  
**Function:** General Government  
**Type:** Replacement  
**Management:** Facilities Management  
**Duration:** 2015-2016

**Total Project Cost:**  
**\$550,000**

### DESCRIPTION

This project will relocate three departments from three different locations to one centrally located building. The new location is anticipated to create a health and human services concentration in the City of North Charleston.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$168	\$382	\$0	\$0	\$0	\$0	\$0	\$550

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Interest, Sales, Transfer & Other	\$168	\$382	\$0	\$0	\$0	\$0	\$0	\$550
<b>GRAND TOTAL</b>	\$168	\$382	\$0	\$0	\$0	\$0	\$0	\$550

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	1,536	1,567	1,598	1,630	1,663
<b>Grand Total</b>	\$1,536	\$1,567	\$1,598	\$1,630	\$1,663

*\*Amounts in thousands of dollars*

<b>Operation &amp; Maintenance Impacts</b>	O&M costs reflect a long-term lease which is included in the FY 2016 budget for Facilities Management. The DAODAS Enterprise Fund is reimbursing the General Fund for the majority of the costs.
--	--

# Capital Projects - General

## Facilities Maintenance - General

*Public Services Building lobby entrance where upgrades to security cameras are taking place in FY 2016*



### Project Highlights

**Initiative:** Service Delivery  
**Function:** General Government  
**Type:** Upgrade/Renovation  
**Management:** Facilities Management  
**Duration:** 2015-2018

**Total Project Cost:**  
**\$5,179,000**

### DESCRIPTION

This project will cover the purchase costs and installation of replacement carpeting, exterior building maintenance, security camera upgrades, sidewalk replacement, lighting replacement, and parking lot resurfacing. Projects scheduled for FY16 include repairs and security upgrades around the exterior of the Detention Center, maintenance at the Human Services Building, renovations and security camera upgrades at the first floor of the Public Service Building, and maintenance at the EMS Warehouse.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$844	\$1,054	\$2,761	\$520	\$0	\$0	\$0	\$5,179

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Interest, Sales, Transfer & Other	\$844	\$1,054	\$0	\$0	\$0	\$0	\$0	\$1,898
Future Sources	0	0	2,761	520	0	0	0	3,281
<b>GRAND TOTAL</b>	<b>\$844</b>	<b>\$1,054</b>	<b>\$2,761</b>	<b>\$520</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$5,179</b>

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	0	0	0	0	0
<b>Grand Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

*\*Amounts in thousands of dollars*

<b>Operation &amp; Maintenance Impacts</b>	<i>There are no significant additional operating or maintenance costs or savings due to this project.</i>
--	---

# Capital Projects - General

## Facilities Maintenance – Heating & Cooling

*Chiller installed at the new Law Enforcement Center*



### Project Highlights

**Initiative:** Service Delivery  
**Function:** General Government  
**Type:** Upgrade/Renovation  
**Management:** Facilities Management  
**Duration:** 2014-2020

**Total Project Cost:**  
**\$3,137,000**

### DESCRIPTION

This project will replace selected chillers, air handlers and other mechanical equipment in various county buildings. It will also update outdated mechanical systems which will increase energy management and conservation. Projects scheduled for FY16 include HVAC upgrades to the Sr. Citizens Center, County Office Building chiller, Detention Center air handlers and boiler, Lee Building, Historic Courthouse chiller, and Law Enforcement redundant cooling tower. Many of the units, such as the air handling units in the old tower section of the Detention Center, are currently being utilized past their life expectancies and have a high risk of failure if not replaced soon. Failure of these units incur the risk of major disruption to operations.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$351	\$1,471	\$990	\$0	\$0	\$325	\$0	\$3,137

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Interest, Sales, Transfer & Other	\$351	\$1,471	\$0	\$0	\$0	\$0	\$0	\$1,822
Future Sources	0	0	990	0	0	325	0	1,315
<b>GRAND TOTAL</b>	\$351	\$1,471	\$990	\$0	\$0	\$325	\$0	\$3,137

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	(50)	(50)	(50)	(50)	(50)
<b>Grand Total</b>	<b>(50)</b>	<b>(50)</b>	<b>(50)</b>	<b>(50)</b>	<b>(50)</b>

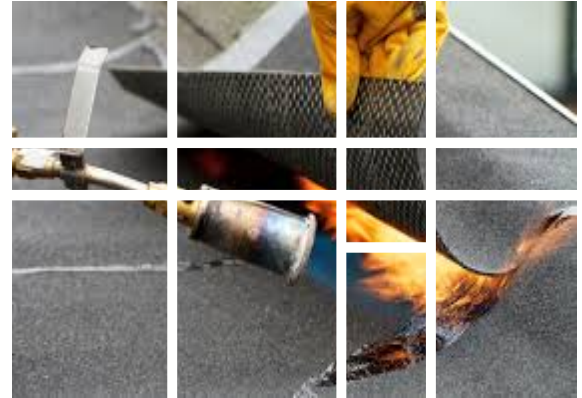
*\*Amounts in thousands of dollars*

**Operation & Maintenance Impacts**  
*There will be energy savings and maintenance cost due to this project which included reductions in the FY 2016 Facilities Management budget.*

# Capital Projects - General

## Facilities Maintenance - Roofing

*Depiction of a torch down roofing process used on many of the flat surfaces on top of Charleston County government buildings*



### Project Highlights

**Initiative:** Service Delivery  
**Function:** General Government  
**Type:** Upgrade/Renovation  
**Management:** Facilities Management  
**Duration:** 2015-2021

**Total Project Cost:**  
**\$8,745,000**

### DESCRIPTION

The County implemented a county wide roof evaluation and developed a plan of action required to keep the roof systems in good repair and prevent further deterioration. This multi-year program will include scheduled repairs, maintenance and replacement of all County owned facilities. Projects taking place in FY16 include roofing repairs to the Lee Building, Centralized Courts Buildings, Human Services Building, and James Island Magistrate Court.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$61	\$904	\$3,780	\$1,000	\$1,000	\$1,000	\$1,000	\$8,745

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Interest, Sales, Transfer & Other	\$61	\$904	\$0	\$0	\$0	\$0	\$0	\$965
Future Sources	0	0	3,780	1,000	1,000	1,000	1,000	7,780
<b>GRAND TOTAL</b>	\$61	\$904	\$3,780	\$1,000	\$1,000	\$1,000	\$1,000	\$8,745

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	(25)	(25)	(25)	(25)	(25)
<b>Grand Total</b>	(\$25)	(\$25)	(\$25)	(\$25)	(\$25)

*\*Amounts in thousands of dollars*

### Operation & Maintenance Impacts

*There should be energy savings with roof replacements of lighter colored roofs and more energy efficient insulation. This savings is reflected in the FY 2016 Facilities Management budget.*

# Capital Projects - General

## Financial System Upgrade

*Sungard computer company  
based in Wayne,  
Pennsylvania*



### Project Highlights

**Initiative:** Long-Term Financial Planning  
**Function:** General Government  
**Type:** Upgrade / Replacement  
**Management:** Financial Services  
**Duration:** 2016

**Total Project Cost:**  
**\$600,000**

### DESCRIPTION

Charleston County currently uses a SunGard financial accounting system named Integrated Financial and Administrative Solution (IFAS). SunGard is phasing out support for this system and developing its newer offering named ONESolution; a comprehensive local government and public safety & justice software suite tailored for the Microsoft Windows platform.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$0	\$600	\$0	\$0	\$0	\$0	\$0	\$600

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Interest, Sales, Transfer & Other	\$0	\$600	\$0	\$0	\$0	\$0	\$0	\$600
<b>GRAND TOTAL</b>	\$0	\$600	\$0	\$0	\$0	\$0	\$0	\$600

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	0	0	0	0	0
<b>Grand Total</b>	\$0	\$0	\$0	\$0	\$0

*\*Amounts in thousands of dollars*

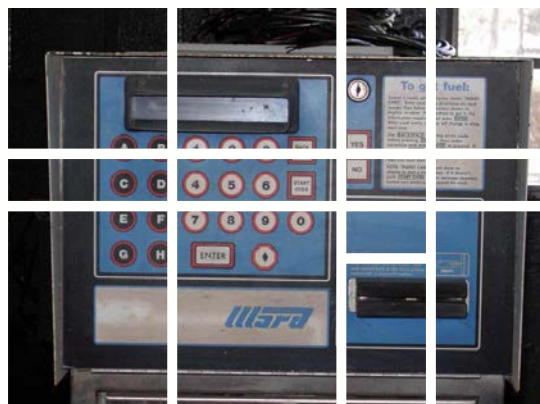
<b>Operation &amp; Maintenance Impacts</b>	<i>There are no significant additional operating or maintenance costs or savings due to this project.</i>
--	---



# Capital Projects - General

## Fuel Upgrade

One of the fuel pumps located in Charleston County used to service County government vehicles



### Project Highlights

**Initiative:** Long-Term Financial Planning  
**Function:** General Government  
**Type:** Upgrade / Replacement  
**Management:** Financial Services  
**Duration:** 2018-2019

**Total Project Cost:**  
**\$200,000**

### DESCRIPTION

The existing fuel canopies at these sites are too low to accommodate the required vehicle access to pumps. This project will replace the canopies so that the vehicles can pull up to the pumps and fuel the vehicles without pulling the fuel hose out beyond the canopy.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$0	\$0	\$0	\$100	\$100	\$0	\$0	\$200

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Future Sources	0	0	0	\$100	\$100	0	0	\$200
<b>GRAND TOTAL</b>	\$0	\$0	\$0	\$100	\$100	\$0	\$0	\$200

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	0	0	0	0	0
<b>Grand Total</b>	\$0	\$0	\$0	\$0	\$0

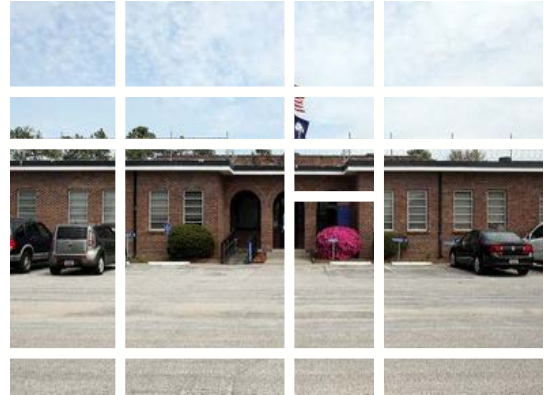
\*Amounts in thousands of dollars

<b>Operation &amp; Maintenance Impacts</b>	There are no significant additional operating or maintenance costs or savings due to this project.
--	--

# Capital Projects - General

## Juvenile Detention Center

*Current Juvenile Detention Center  
(Photo from Post & Courier)*



### Project Highlights

**Initiative:** Service Delivery  
**Function:** Public Safety  
**Type:** Replacement  
**Management:** Facilities Management  
**Duration:** To be determined

**Total Project Cost:**  
**\$4,750,000**

### DESCRIPTION

This project will re-purpose the existing 13,500 square feet work camp to accommodate the relocation of the Juvenile Detention Center from the existing Headquarters Road Facility. The project is scheduled for the out years in the CIP.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$0	\$0	\$0	\$0	\$0	\$0	\$4,750	\$4,750

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Future Bond Issues	\$0	\$0	\$0	\$0	\$0	\$0	\$4,750	\$4,750
<b>GRAND TOTAL</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$4,750	\$4,750

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	0	0	0	0	0
<b>Grand Total</b>	\$0	\$0	\$0	\$0	\$0

*\*Amounts in thousands of dollars*

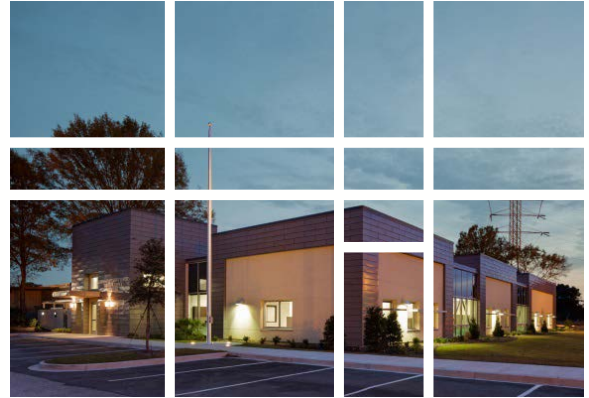
<b>Operation &amp; Maintenance Impacts</b>	Once the renovations are complete, the new Juvenile Detention Center is anticipated to have some maintenance savings.
--	---



# Capital Projects - General

## Law Enforcement Center

*New Law Enforcement Center architecturally designed by Cummings and McCrady Architects*



### Project Highlights

**Initiative:** Service Delivery

**Function:** Public Safety

**Type:** Replacement

**Management:** Facilities Management

**Duration:** 2011-2016

**Total Project Cost:**  
**\$14,500,000**

### DESCRIPTION

This project relocates and consolidates the Sheriff's Office personnel from multiple locations to a single, centrally located facility. The project consists of interior renovations to the existing main SCE&G building and two out buildings on the Leeds Avenue site to house Sheriff's staff.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$13,784	\$716	\$0	\$0	\$0	\$0	\$0	\$14,500

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Existing Bond Issues	\$13,784	\$716	\$0	\$0	\$0	\$0	\$0	\$14,500
Future Bond Issues	0	0	0	0	0	0	4,750	4,750
<b>GRAND TOTAL</b>	<b>\$13,784</b>	<b>\$716</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,750</b>	<b>\$19,250</b>

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$103	\$106	\$109	\$113	\$116
Operating	536	546	557	568	580
<b>Grand Total</b>	<b>\$639</b>	<b>\$652</b>	<b>\$666</b>	<b>\$681</b>	<b>\$696</b>

*\*Amounts in thousands of dollars*

<b>Operation &amp; Maintenance Impacts</b>	<i>O&amp;M increases will be needed to cover the recurring cost of two additional maintenance personnel, maintenance contracts for HVAC systems, and other services. There will also be a projected increase in utility cost. Some of this cost will be offset by the reduced cost of operating the facilities that are vacated.</i>
--	--

# Capital Projects - General

## Law Enforcement Training Center

*Charleston County Sheriff's Department personnel conducting S.W.A.T. team exercises*



### Project Highlights

**Initiative:** Service Delivery  
**Function:** Public Safety  
**Type:** New  
**Management:** Facilities Management  
**Duration:** To be determined

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

### DESCRIPTION

This project will create a firearms shooting range and law enforcement training facility at the County-owned Sheppard Tract.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$0	\$0	\$0	\$0	\$0	\$0	\$500	\$500

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Future Bond Issues	\$0	\$0	\$0	\$0	\$0	\$0	\$500	\$500
<b>GRAND TOTAL</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$500	\$500

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	0	0	0	0	0
<b>Grand Total</b>	\$0	\$0	\$0	\$0	\$0

*\*Amounts in thousands of dollars*

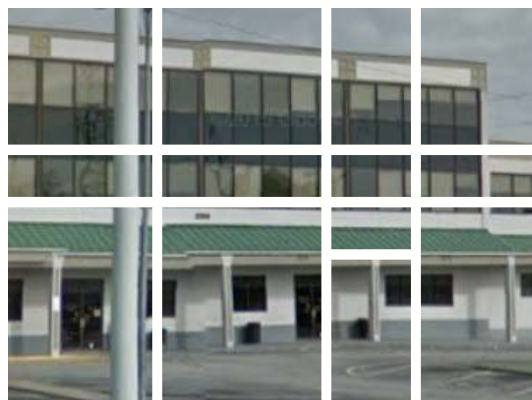
**Operation & Maintenance Impacts**

*Estimated increase in annual operating and maintenance costs are unknown at this time.*

# Capital Projects - General

## Lee Building

Photo of Lee Building



### Project Highlights

**Initiative:** Service Delivery  
**Function:** General Government  
**Type:** New  
**Management:** Facilities Management  
**Duration:** 2016

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

### DESCRIPTION

In 2004, the County entered into a ten year lease with an option to buy the Lee Building. In November of 2014, the County planned to take ownership of the building and purchase an additional 3,600 square feet of office space not included in the original lease. The purchase was delayed, but Charleston County is completing the purchase of the residual value in FY 2016.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$0	\$250	\$0	\$0	\$0	\$0	\$0	\$250

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Existing Bond Issues	\$0	\$250	\$0	\$0	\$0	\$0	\$0	\$250
<b>GRAND TOTAL</b>	\$0	\$250	\$0	\$0	\$0	\$0	\$0	\$250

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	0	0	0	0	0
<b>Grand Total</b>	\$0	\$0	\$0	\$0	\$0

\*Amounts in thousands of dollars

<b>Operation &amp; Maintenance Impacts</b>	There are no significant additional operating or maintenance costs or savings due to this project.
--	--

# Capital Projects - General

## Library Facilities

Main Library scheduled for renovations in FY 2019 as part of the extensive library CIP approved by the 2014 referendum



### Project Highlights

**Initiative:** Service Delivery  
**Function:** Culture/Recreation  
**Type:** New and Replacement  
**Management:** Facilities Management  
**Duration:** 2016-2020

**Total Project Cost:**  
**\$108,500,000**

### DESCRIPTION

In November of 2014, a referendum to approve \$108.5 million in financing to build and renovate libraries across Charleston County was approved by voters at the ballot. The planning phase, site selection, and initial actions to carry out the plans begin in fiscal year 2016.

Construction will take place at 19 sites with five sites expected to begin in FY 2016. This includes renovation of 13 sites. The project will utilize a pay as you go funding strategy assisted by future bond issuances beginning in FY 2017.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$0	\$3,633	\$39,162	\$37,695	\$13,127	\$14,883	\$0	\$108,500

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Interest, Sales, Transfer & Other	\$0	\$3,633	\$6,867	\$0	\$0	\$0	\$0	\$10,500
Future Bond Issues	0	0	29,295	37,695	13,127	14,883	0	95,000
Future Sources	0	0	3,000	0	0	0	0	3,000
<b>GRAND TOTAL</b>	<b>\$0</b>	<b>\$3,633</b>	<b>\$39,162</b>	<b>\$37,695</b>	<b>\$13,127</b>	<b>\$14,883</b>	<b>\$0</b>	<b>\$108,500</b>

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$2,165	\$3,858	\$3,955
Operating	0	135	1,502	2,815	3,010
<b>Grand Total</b>	<b>\$0</b>	<b>\$135</b>	<b>\$3,667</b>	<b>\$6,673</b>	<b>\$6,965</b>

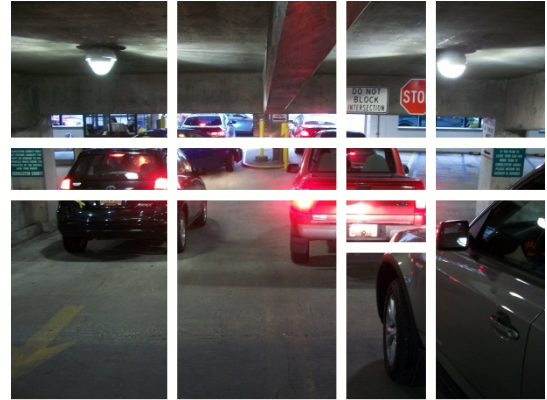
\*Amounts in thousands of dollars

<b>Operation &amp; Maintenance Impacts</b>	O&M costs include the addition of 86 positions for Library operations, facilities maintenance and grounds maintenance. In addition, O&M costs include Library materials, insurance and technology maintenance. The O&M costs are anticipated to be funded from the General Fund millage increase in FY 2016 after utilizing the funds on a pay-as-you-go basis for the capital costs.
--	---

# Capital Projects - General

## Parking Garages

*Depiction of a traffic delay exiting the parking garage before installation of automated payment systems*



### Project Highlights

**Initiative:** Service Delivery  
**Function:** General Government  
**Type:** New and Upgrade  
**Management:** Financial Services  
**Duration:** 2009-2019

**Total Project Cost:**  
**\$4,830,000**

### DESCRIPTION

Parking in downtown Charleston has been a pressing issue for many years. Charleston County parking garages allow for a greater number of people to commute to the peninsula in their personal vehicles. The parking garage projects include parking control automation, camera upgrades at King and Queen Street locations, new lighting at the Cumberland parking garage, painting at the King and Queen location, refurbishing of an elevator, emergency call boxes, electrical panel upgrades, Secom system modifications, and miscellaneous repairs and maintenance.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$3,210	\$1,190	\$95	\$180	\$155	\$0	\$0	\$4,830

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Interest, Sales, Transfer & Other	\$3,210	\$1,190	\$0	\$0	\$0	\$0	\$0	\$4,400
Future Sources	0	0	95	180	155	0	0	430
<b>GRAND TOTAL</b>	<b>\$3,210</b>	<b>\$1,190</b>	<b>\$95</b>	<b>\$180</b>	<b>\$155</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,830</b>

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	0	0	0	0	0
<b>Grand Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

*\*Amounts in thousands of dollars*

<b>Operation &amp; Maintenance Impacts</b>	<i>There are no significant additional operating or maintenance costs or savings due to this project.</i>
--	---

# Capital Projects - General

## Public Safety System

*Charleston County Sheriff's vehicle and K-9 serving the Public Safety function of Charleston County Government*



### Project Highlights

**Initiative:** Service Delivery  
**Function:** Public Safety  
**Type:** Upgrade  
**Management:** Sheriff  
**Duration:** 2016-2017

**Total Project Cost:**  
**\$2,643,000**

### DESCRIPTION

This project will upgrade the Records Management system for the Sheriff: Detention Center and the Sheriff: Law Enforcement.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$0	\$1,100	\$1,543	\$0	\$0	\$0	\$0	\$2,643

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Interest, Sales, Transfer & Other	\$0	\$1,100	\$1,543	\$0	\$0	\$0	\$0	\$2,643
<b>GRAND TOTAL</b>	\$0	\$1,100	\$1,543	\$0	\$0	\$0	\$0	\$2,643

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	0	0	0	0	0
<b>Grand Total</b>	\$0	\$0	\$0	\$0	\$0

*\*Amounts in thousands of dollars*

<b>Operation &amp; Maintenance Impacts</b>	<i>There are no significant additional operating or maintenance costs or savings related to this project.</i>
--	---



# Capital Projects - General

## Public Works Compound

*Public Works Complex site  
located on Azalea Drive*



### Project Highlights

**Initiative:** Service Delivery  
**Function:** Public Works  
**Type:** Replacement  
**Management:** Financial Services  
**Duration:** To be determined

**Total Project Cost:**  
**\$40,000,000**

### DESCRIPTION

The County plans to upgrade the existing complex for the utilities, communications and fueling sites. In addition, this project will improve accessibility and flow throughout the complex. The project also includes improved storage for Public Works heavy equipment.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$0	\$0	\$0	\$0	\$0	\$0	\$40,000	\$40,000

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Future Bond Issues	\$0	\$0	\$0	\$0	\$0	\$0	\$40,000	\$40,000
<b>GRAND TOTAL</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$40,000	\$40,000

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	0	0	0	0	0
<b>Grand Total</b>	\$0	\$0	\$0	\$0	\$0

*\*Amounts in thousands  
of dollars*

<b>Operation &amp; Maintenance Impacts</b>	<i>Estimated increase in annual operating and maintenance costs are unknown at this time.</i>
--	---

# Capital Projects - General

## Radio Replacement

Motorola APX models  
expected to replace the  
older XTS radios



### Project Highlights

Initiative: Service Delivery

Function: Public Safety

Type: Replacement

Management: Radio

Communications

Duration: 2020

**Total Project Cost:**  
**\$5,000,000**

### DESCRIPTION

Motorola has officially announced the end of service life of the many XTS/XTL radios being used by the County. About 1,560 radios of the current 1,700 in service will need replacement in the coming years. The County expects to replace 420 mobile radios at about \$4,300 each, 1,100 portable radios at about \$2,700 each, and 40 stationary radios at about \$4,600 each.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$0	\$0	\$0	\$0	\$0	\$5,000	\$0	\$5,000

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Future Bond Issues	\$0	\$0	\$0	\$0	\$0	\$5,000	\$0	\$5,000
<b>GRAND TOTAL</b>	\$0	\$0	\$0	\$0	\$0	\$5,000	\$0	\$5,000

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	0	0	0	0	0
<b>Grand Total</b>	\$0	\$0	\$0	\$0	\$0

\*Amounts in thousands  
of dollars

### Operation & Maintenance Impacts

There are no significant additional operating or maintenance costs or savings due to this project.



# Capital Projects - General

## Solicitor Case Management System



### Project Highlights

**Initiative:** Service Delivery  
**Function:** Judicial  
**Type:** Replacement  
**Management:** Solicitor  
**Duration:** 2015-2016

**Total Project Cost:**  
**\$375,000**

### DESCRIPTION

The Solicitor's Office has been using the Case Management System software provided by the State to manage their case records for more than eight years. This project will replace the existing software with an upgraded version that will enable the department to meet current needs as well as attach files and complementary information to case records.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$46	\$329	\$0	\$0	\$0	\$0	\$0	\$375

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Interest, Sales, Transfer & Other	\$46	\$329	\$0	\$0	\$0	\$0	\$0	\$375
<b>GRAND TOTAL</b>	\$46	\$329	\$0	\$0	\$0	\$0	\$0	\$375

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	40	41	41	42	43
<b>Grand Total</b>	\$40	\$41	\$41	\$42	\$43

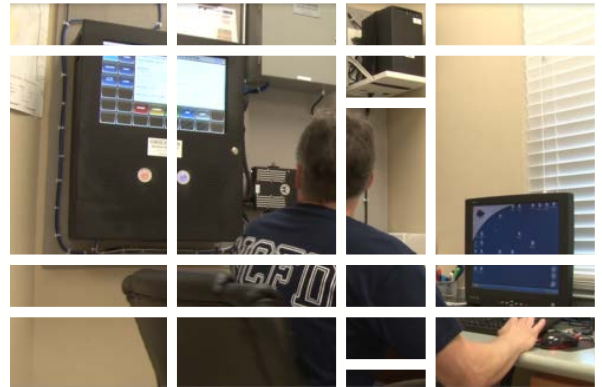
*\*Amounts in thousands of dollars*

<b>Operation &amp; Maintenance Impacts</b>	<i>There will be an increase in maintenance costs of approximately \$40,000 per year. This is included in the FY 2016 Technology Services budget.</i>
--	---

# Capital Projects - General

## Station Alerting

*New station alerting system module located at the Awendaw McClellanville Consolidated Fire Department*



### Project Highlights

**Initiative:** Service Delivery  
**Function:** Public Safety  
**Type:** New  
**Management:** Consolidated Dispatch  
**Duration:** 2015-2016

**Total Project Cost:**  
**\$3,562,000**

### DESCRIPTION

Station Alerting reduces the workload of the Dispatch staff while increasing the speed and efficiency of dispatching the correct unit to an incident. The system also reduces or eliminates the amount of radio communications needed for monitoring and only sends out the call to the assigned incident channel.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$3,461	\$101	\$0	\$0	\$0	\$0	\$0	\$3,562

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Existing Bond Issues	\$3,461	\$0	\$0	\$0	\$0	\$0	\$0	\$3,461
Interest, Sales, Transfer & Other	0	101	0	0	0	0	0	101
<b>GRAND TOTAL</b>	<b>\$3,461</b>	<b>\$101</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,562</b>

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	307	313	319	326	332
<b>Grand Total</b>	<b>\$307</b>	<b>\$313</b>	<b>\$319</b>	<b>\$326</b>	<b>\$332</b>

*\*Amounts in thousands of dollars*

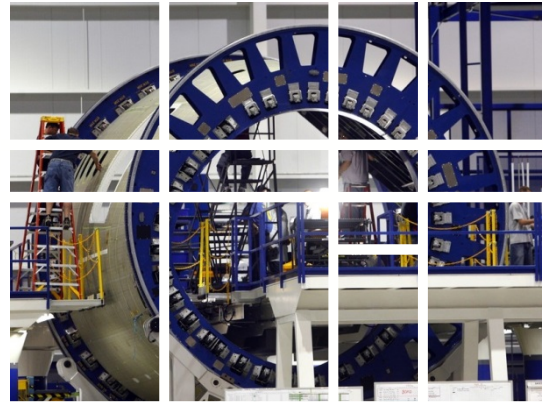
<b>Operation &amp; Maintenance Impacts</b>	<i>Additional maintenance cost has been included in the FY 2016 Consolidated Dispatch budget.</i>
--	---

# Capital Projects - General

## Trident Aeronautical Training Facility

Boeing South Carolina 787 plant Trident Technical College utilized to train employees

(Photo from Post & Courier)



### Project Highlights

**Initiative:** Service Delivery

**Function:** Education

**Type:** New

**Management:** Trident Technical College

**Duration:** 2016-2018

**Total Project Cost:**  
**\$18,750,000**

### DESCRIPTION

This project will construct a building on the main campus of Trident Technical College with over 200,000 square feet of space. The County is providing a portion of the \$79 million in funding required for construction, with the largest portion coming from the State. This building will provide classrooms for aeronautical studies including aircraft maintenance, aircraft assembly, avionics maintenance, and basic industrial work skills.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$0	\$4,000	\$7,375	\$7,375	\$0	\$0	\$0	\$18,750

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Future Bond Issues	\$0	\$4,000	\$7,375	\$7,375	\$0	\$0	\$0	\$18,750
<b>GRAND TOTAL</b>	\$0	\$4,000	\$7,375	\$7,375	\$0	\$0	\$0	\$18,750

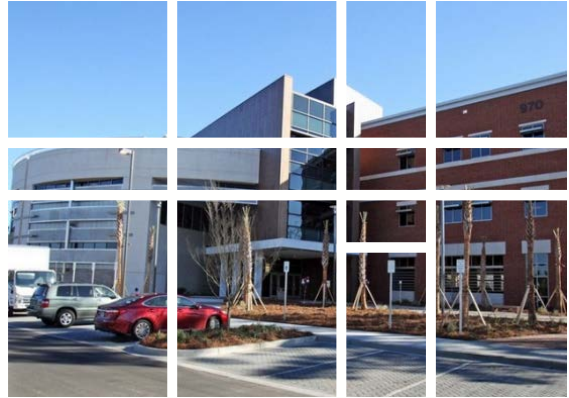
O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	0	0	0	0	0
<b>Grand Total</b>	\$0	\$0	\$0	\$0	\$0

\*Amounts in thousands of dollars

<b>Operation &amp; Maintenance Impacts</b>	Charleston County will not own or operate this facility. There will be no operating or maintenance costs associated with this project.
--	--

# Capital Projects - General

## Trident Nursing & Science Building



*Trident Nursing & Science Building  
(Photo from Post & Courier)*

### Project Highlights

**Initiative:** Service Delivery

**Function:** Education

**Type:** New

**Management:** Trident Technical College

**Duration:** 2012-2016

**Total Project Cost:**  
**\$18,000,000**

### DESCRIPTION

This project constructed an approximate 90,000 square foot building on the main campus of Trident Technical College. The County provided a portion of the funding required for construction. The building provides classrooms for nursing and science labs. Other classrooms and space for student study are provided. The project addresses the tri-county area's current shortage of nursing and allied health workers. A majority of the construction has already been completed.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$16,733	\$1,267	\$0	\$0	\$0	\$0	\$0	\$18,000

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Existing Bond Issues	\$16,733	\$1,267	\$0	\$0	\$0	\$0	\$0	\$18,000
<b>GRAND TOTAL</b>	\$16,733	\$1,267	\$0	\$0	\$0	\$0	\$0	\$18,000

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	0	0	0	0	0
<b>Grand Total</b>	\$0	\$0	\$0	\$0	\$0

*\*Amounts in thousands of dollars*

<b>Operation &amp; Maintenance Impacts</b>	<i>Charleston County will not own or operate this facility. There will be no operating or maintenance costs associated with this project.</i>
--	---

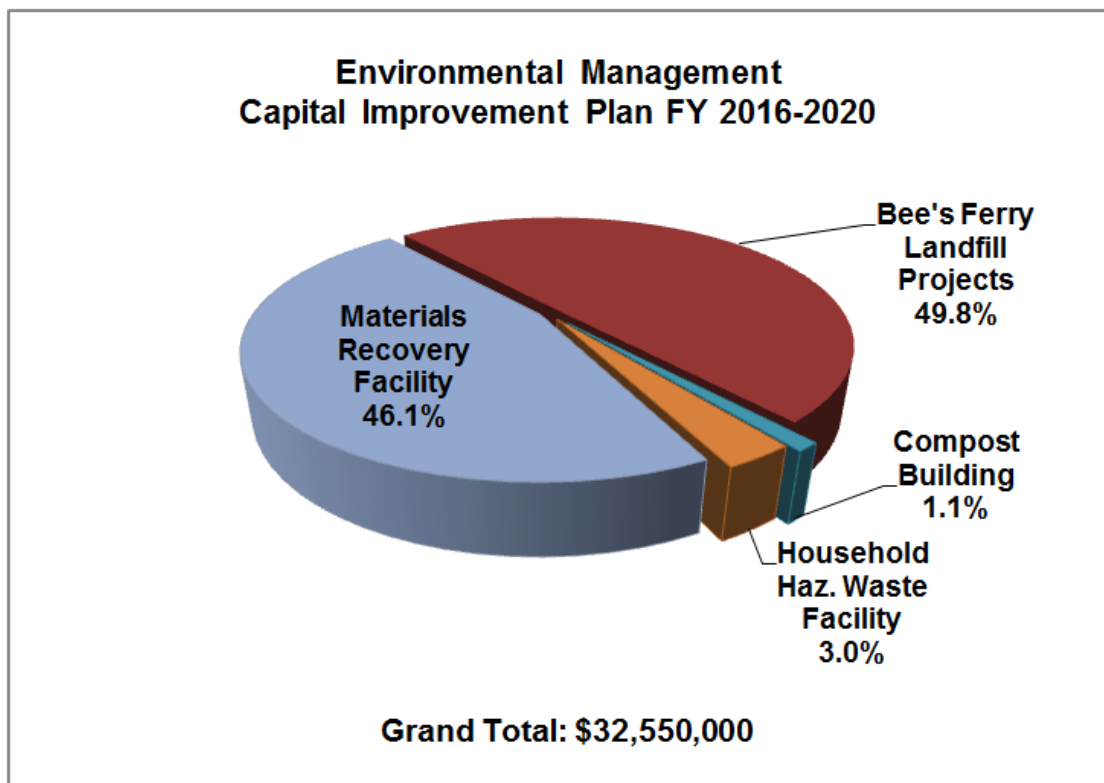
# Capital Projects – Environmental Mgmt.

## Environmental Management Capital Improvement Plan

The Environmental Management Department's Five Year Capital Improvement Plan provides long-range plans to continue advancing the County's 40 percent recycling goal. The five-year capital improvement plan provides a structured approach to support these goals.

### Environmental Management Project Cost Summary \*

Project Title	Prior	2016	2017	2018	2019	2020	Beyond	Project Total
<b>Public Works</b>								
Bee's Ferry Landfill - Entrance	\$ 482	\$ 218	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 700
Bee's Ferry Landfill Cell - Cell 4	776	5,624	-	-	-	-	-	6,400
Bee's Ferry Landfill Cell - Cell 5	-	-	-	-	9,000	-	-	9,000
Bee's Ferry Landfill-Leachate	-	100	-	-	-	-	-	100
Compost Building	-	350	-	-	-	-	-	350
Household Haz. Waste Facility	-	-	1,000	-	-	-	-	1,000
Materials Recovery Facility	3,000	12,000	-	-	-	-	-	15,000
<b>GRAND TOTAL</b>	<b>\$ 4,258</b>	<b>\$ 18,292</b>	<b>\$ 1,000</b>	<b>\$ -</b>	<b>\$ 9,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 32,550</b>



# Capital Projects – Environmental Mgmt.

## Financing the CIP

The funding for this plan will come from the use of existing funds. Environmental Management intends to fund the projects with future revenues if necessary.

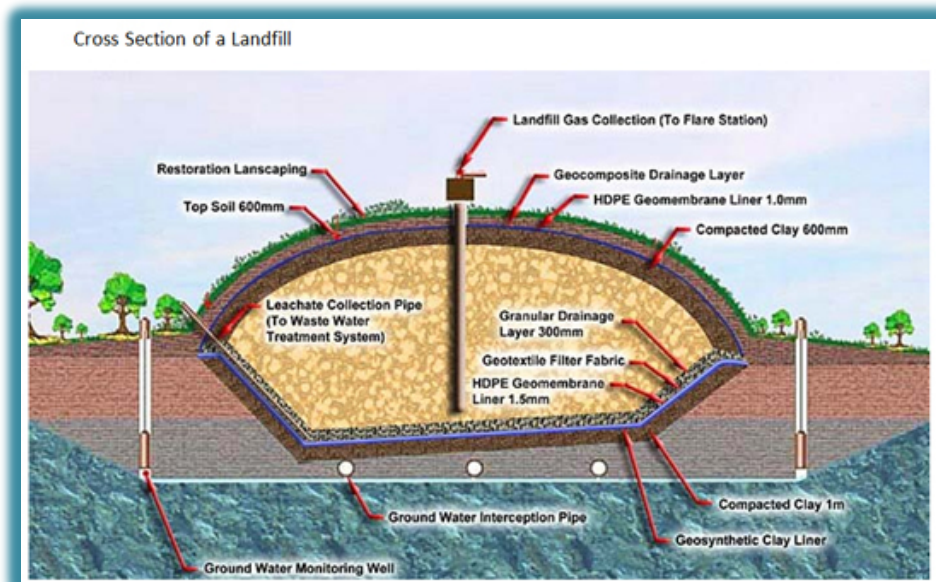
### Environmental Management Source Summary \*

Funding Source	Prior	2016	2017	2018	2019	2020	Beyond	Total
Existing Funds	\$ 4,258	\$ 18,292	\$ 1,000	\$ -	\$ -	\$ -	\$ -	\$ 23,550
Future Sources	-	-	-	-	9,000	-	-	9,000
<b>GRAND TOTAL</b>	<b>\$ 4,258</b>	<b>\$ 18,292</b>	<b>\$ 1,000</b>	<b>\$ -</b>	<b>\$ 9,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 32,550</b>

\* Amounts in thousands of dollars

## Impact on the Operating Budget

Environmental Management expects additional utilities and maintenance costs associated with the new and expanded facilities in the current CIP.





# Capital Projects – Environmental Mgmt.

## Bee's Ferry Landfill – Cells 4 and 5

*New Cell 4 being prepared for solid waste*



### Project Highlights

**Initiative:** Service Delivery

**Function:** Public Works

**Type:** New

**Management:** Environmental Management

**Duration:** 2014-2019

**Total Project Cost:**  
**\$15,400,000**

### DESCRIPTION

The current municipal solid waste landfill cell is anticipated to be at capacity in 2016. Cell 4 will need to be constructed and operational prior to 2016. Funding will support design and construction of Cell 4. Cell 4 is projected to be at capacity in 2019. Cell 5 will need to be constructed and operational prior to 2019. Funding will support the design and construction of Cell 5.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$776	\$5,624	\$0	\$0	\$9,000	\$0	\$0	\$15,400

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Existing Funds	\$776	\$5,624	\$0	\$0	\$0	\$0	\$0	\$6,400
Future Sources	0	0	0	0	9,000	0	0	9,000
<b>GRAND TOTAL</b>	<b>\$776</b>	<b>\$5,624</b>	<b>\$0</b>	<b>\$0</b>	<b>\$9,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$15,400</b>

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	0	0	0	0	0
<b>Grand Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

*\*Amounts in thousands of dollars*

### Operation & Maintenance Impacts

*There are no immediate additional operating or maintenance costs or savings due to this project. However, there are substantial costs related to constructing the final cover and post-closure care when all of the lined landfill cells are closed. In accordance with governmental accounting standards, the County records a proportion of the estimated \$19 million in closure costs as the landfill is utilized.*

# Capital Projects – Environmental Mgmt.

## Bee's Ferry Landfill - Entrance

*Newly constructed  
Charleston County Landfill  
entrance*



### Project Highlights

**Initiative:** Service Delivery

**Function:** Public Works

**Type:** Replacement

**Management:** Environmental  
Management

**Duration:** 2014-2016

**Total Project Cost:**  
**\$700,000**

### DESCRIPTION

The entrance to the Bee's Ferry Landfill will be designed and constructed during the widening of Bee's Ferry Road, a Transportation Sales Tax Bonded project. Funds will support design and construction costs to relocate the entrance, install drainage improvements and install landscaping.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$482	\$218	\$0	\$0	\$0	\$0	\$0	\$700

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Existing Funds	\$482	\$218	\$0	\$0	\$0	\$0	\$0	\$700
<b>GRAND TOTAL</b>	\$482	\$218	\$0	\$0	\$0	\$0	\$0	\$700

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	0	0	0	0	0
<b>Grand Total</b>	\$0	\$0	\$0	\$0	\$0

*\*Amounts in thousands  
of dollars*

<b>Operation &amp; Maintenance Impacts</b>	<i>There are no significant additional operating or maintenance costs or savings due to this project.</i>
--	---



# Capital Projects – Environmental Mgmt.

## Bee's Ferry Landfill – Leachate Sewer Line

*Ditch being dug for water drainage and placement of sewer line near Bees Ferry Landfill*



### Project Highlights

**Initiative:** Service Delivery

**Function:** Public Works

**Type:** New

**Management:** Environmental  
Management

**Duration:** 2016

**Total Project Cost:**  
**\$100,000**

### DESCRIPTION

This project funds the County portion of a joint project with Charleston Water Systems to construct a sewer line for use by The Bee's Feery Landfill and surrounding development.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$0	\$100	\$0	\$0	\$0	\$0	\$0	\$100

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Existing Funds	\$0	\$100	\$0	\$0	\$0	\$0	\$0	\$100
<b>GRAND TOTAL</b>	\$0	\$100	\$0	\$0	\$0	\$0	\$0	\$100

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	0	(30)	(31)	(32)	(32)
<b>Grand Total</b>	\$0	(\$30)	(\$31)	(\$32)	(\$32)

*\*Amounts in thousands of dollars*

<b>Operation &amp; Maintenance Impacts</b>	Operating savings are estimated to begin during FY 2017.
--	--

# Capital Projects – Environmental Mgmt.

## Compost Building

Finished compost produced at the Bee's Ferry landfill site.



### Project Highlights

**Initiative:** Service Delivery

**Function:** Public Works

**Type:** New

**Management:** Environmental Management

**Duration:** 2016

**Total Project Cost:**  
**\$700,000**

### DESCRIPTION

The Compost facility accepts food waste as part of a pilot program. The food waste is currently mixed with wood chips in an open environment. A new building is required to mix materials if the compost facility and program are expanded permanently to accept other organic feedstocks. Funds will support design and construction costs.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$0	\$350	\$0	\$0	\$0	\$0	\$0	\$350

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Existing Funds	\$0	\$350	\$0	\$0	\$0	\$0	\$0	\$350
<b>GRAND TOTAL</b>	\$0	\$350	\$0	\$0	\$0	\$0	\$0	\$350

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	0	25	26	26	27
<b>Grand Total</b>	\$0	\$25	\$26	\$26	\$27

\*Amounts in thousands of dollars

### Operation & Maintenance Impacts

This is a new facility so there will be additional utility and maintenance cost at the Compost site. It is anticipated that this will enable the County to produce a high-grade compost product that could add to the revenue stream.

# Capital Projects – Environmental Mgmt.

## Household Hazardous Waste Facility

County employee participating in hazardous materials training



### Project Highlights

**Initiative:** Service Delivery

**Function:** Public Works

**Type:** Replacement

**Management:** Environmental Management

**Duration:** 2017

**Total Project Cost:**  
**\$1,000,000**

### DESCRIPTION

A replacement facility is required to process discarded electronics, paints and other chemicals for proper disposal. The current facility consists of numerous buildings and sheds housing different elements of the operation. This facility will consolidate most of the operation under one roof. Funds will support design and construction costs.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$0	\$0	\$1,000	\$0	\$0	\$0	\$0	\$1,000

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Existing Funds	\$0	\$0	\$1,000	\$0	\$0	\$0	\$0	\$1,000
<b>GRAND TOTAL</b>	\$0	\$0	\$1,000	\$0	\$0	\$0	\$0	\$1,000

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	0	25	26	26	27
<b>Grand Total</b>	\$0	\$25	\$26	\$26	\$27

\*Amounts in thousands of dollars

<b>Operation &amp; Maintenance Impacts</b>	<i>This is a larger replacement facility so there will be additional utility and maintenance costs.</i>
--	---

# Capital Projects – Environmental Mgmt.

## Materials Recovery Facility

*Flexible state-of-the-art  
Material Recovery Facility  
designed by MachineX  
Recycling for Jacksonville,  
Florida*



### Project Highlights

**Initiative:** Service Delivery

**Function:** Public Works

**Type:** Replacement

**Management:** Facilities  
Management

**Duration:** 2015-2016

**Total Project Cost:**  
**\$15,000,000**

### DESCRIPTION

The Materials Recovery Facility at 13 Romney Street in Downtown Charleston is 20 years old, utilizes outdated equipment and has limited acreage for program expansion. Funding will support the acquisition of a new location and the construction of a new processing facility, including the associated equipment.

EXPENDITURES	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
	\$3,000	\$12,000	\$0	\$0	\$0	\$0	\$0	\$15,000

FUNDING SOURCE	PRIOR	2016	2017	2018	2019	2020	BEYOND	TOTAL
Existing Funds	\$3,000	\$12,000	\$0	\$0	\$0	\$0	\$0	\$15,000
<b>GRAND TOTAL</b>	\$3,000	\$12,000	\$0	\$0	\$0	\$0	\$0	\$15,000

O&M Costs (Savings)	2016	2017	2018	2019	2020
Personnel	\$0	\$0	\$0	\$0	\$0
Operating	0	125	128	130	133
<b>Grand Total</b>	\$0	\$125	\$128	\$130	\$133

*\*Amounts in thousands  
of dollars*

<b>Operation &amp; Maintenance Impacts</b>	<i>This is a larger replacement facility so there will be additional utility and maintenance costs.</i>
--	---

# Capital Projects – Transportation Sales Tax

## Overview of the Transportation Sales Tax

The Transportation Sales Tax program was developed after the voters of Charleston County passed a referendum in November 2014 to provide specific additional tax funds for road, mass transit and green space projects. The Greenbelt Department manages the green space portion of the Half Cent Sales Tax program and implements the Comprehensive Greenbelt Plan through the Urban and Rural Grants Program. The Transportation Development Department manages the transportation project portion of the Half Cent Sales Tax program. Charleston County allocates funds to the Charleston Area Regional Transportation Authority (CARTA), Tri-County Link and the Independent Transportation Network Charleston – Trident (ITN) to provide mass transit solutions to the urban and rural areas of the County.

Collection of the Transportation Sales Tax funds began in May 2005, and will continue for 25 years or until \$1.3 billion is collected for transportation, transit, and green space. County Council approves a Comprehensive Plan of Expenditures (five-year plan) for the Transportation Sales Tax fund each year in June. The FY 2016 – FY 2020 plan includes the capital projects projections for two components of the Transportation Sales Tax: roads and green space. The County allocates funds to CARTA, Link, and ITN to address mass transit in accordance with the referendum. The County does not track any capital projects for mass transit.

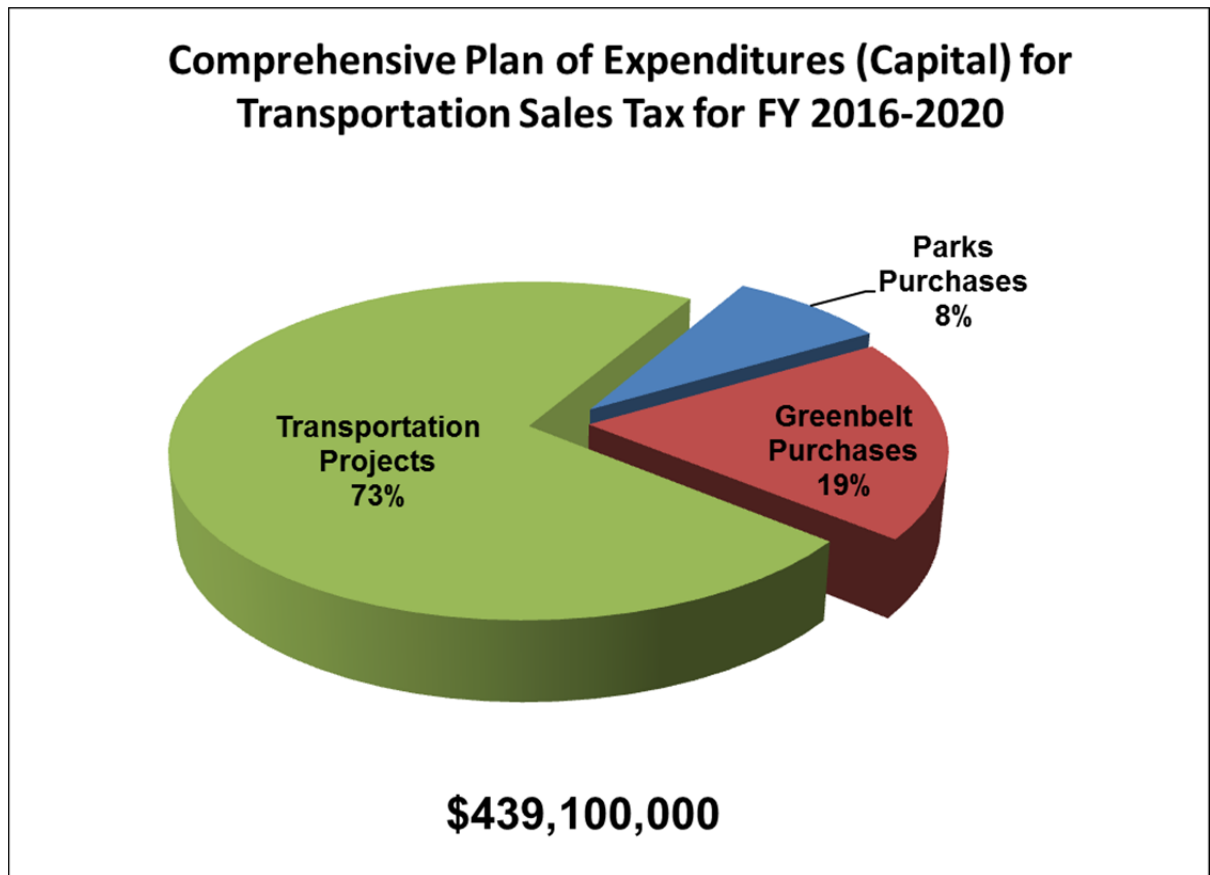
### Transportation Sales Tax Project Cost Summary \*

Project Title	Prior	2016	2017	2018	2019	2020	Beyond	Project Total
<b>Public Works</b>								
Parks Purchases	\$ 36,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 36,000
Greenbelt Purchases	81,700	3,300	-	-	-	-	-	85,000
Transportation Projects	250,600	40,700	23,400	3,400	-	-	-	318,100
<b>GRAND TOTAL</b>	<b>\$ 368,300</b>	<b>\$ 44,000</b>	<b>\$ 23,400</b>	<b>\$ 3,400</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 439,100</b>

\* Amounts in thousands of dollars

The total cost of the FY 2016 – FY 2020 comprehensive plan of capital expenditures in transportation sales tax program total \$439.1 million. Projects funded through the four bond issuances are included in the cost summary.

# Capital Projects – Transportation Sales Tax



## Financing the CIP

The capital portion of the Comprehensive Plan of Expenditures is funded through existing bonds and intergovernmental funds. The County issued bonds in 2006, 2007, 2009, and 2011 as approved through referendums in 2004 and in 2006.

### Transportation Sales Tax Source Summary \*

Funding Source	Prior	2016	2017	2018	2019	2020	Beyond	Total
SCDOT/CHATS/Earmark	\$ 43,000	\$ 14,400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 57,400
Existing Bond Funds	382,000	-	-	-	-	-	-	382,000
<b>GRAND TOTAL</b>	<b>\$ 425,000</b>	<b>\$14,400</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$439,400</b>

\* Amounts in thousands of dollars

The intergovernmental funding includes federal grants, state grants and municipal contributions. Since the intergovernmental funds are project specific, they are not included in capital funding plans until secured by an actual agreement with the entity that is providing them. Depending on how the agreement is structured and which entity is managing the project, project funds that become available through partnerships with municipalities are disbursed to or are collected from the municipality by Charleston County.

# Capital Projects – Transportation Sales Tax

The following sections of the Capital Projects: Transportation Sales Tax includes detailed discussion of the Transportation Sales Tax: Roads and Transportation Sales Tax: Greenbelt programs.

## **Transportation Sales Tax: Roads Program**

Charleston County Council appointed a Transportation Advisory Board to review recommendations on sales tax expenditures for transportation projects and to receive public input. This Board comments on spending over \$1 billion over the course of 25 years towards highways, bridges, roads, drainage projects, and for mass transit systems. The Board consists of 14 members selected by Charleston County Council and the elected Councils of each of the three major municipalities in Charleston County (Charleston, Mount Pleasant and North Charleston). The Board prepares, and delivers to County Council, findings, recommendations, and comments on the Comprehensive Transportation Plan developed by a private consultant.

The Comprehensive Transportation Plan consists of two types of projects, Allocation and Bonded. The Allocation projects generally fall within the areas of resurfacing, small paving, bike and pedestrian, and drainage improvements as well as an annual contribution to the Charleston County Public Works Department. Selection is based on several criteria including, but not limited to, current road condition, community need, and expected future traffic improvements. The Allocation projects are included in the operating portion of the Comprehensive Plan of Expenditures.

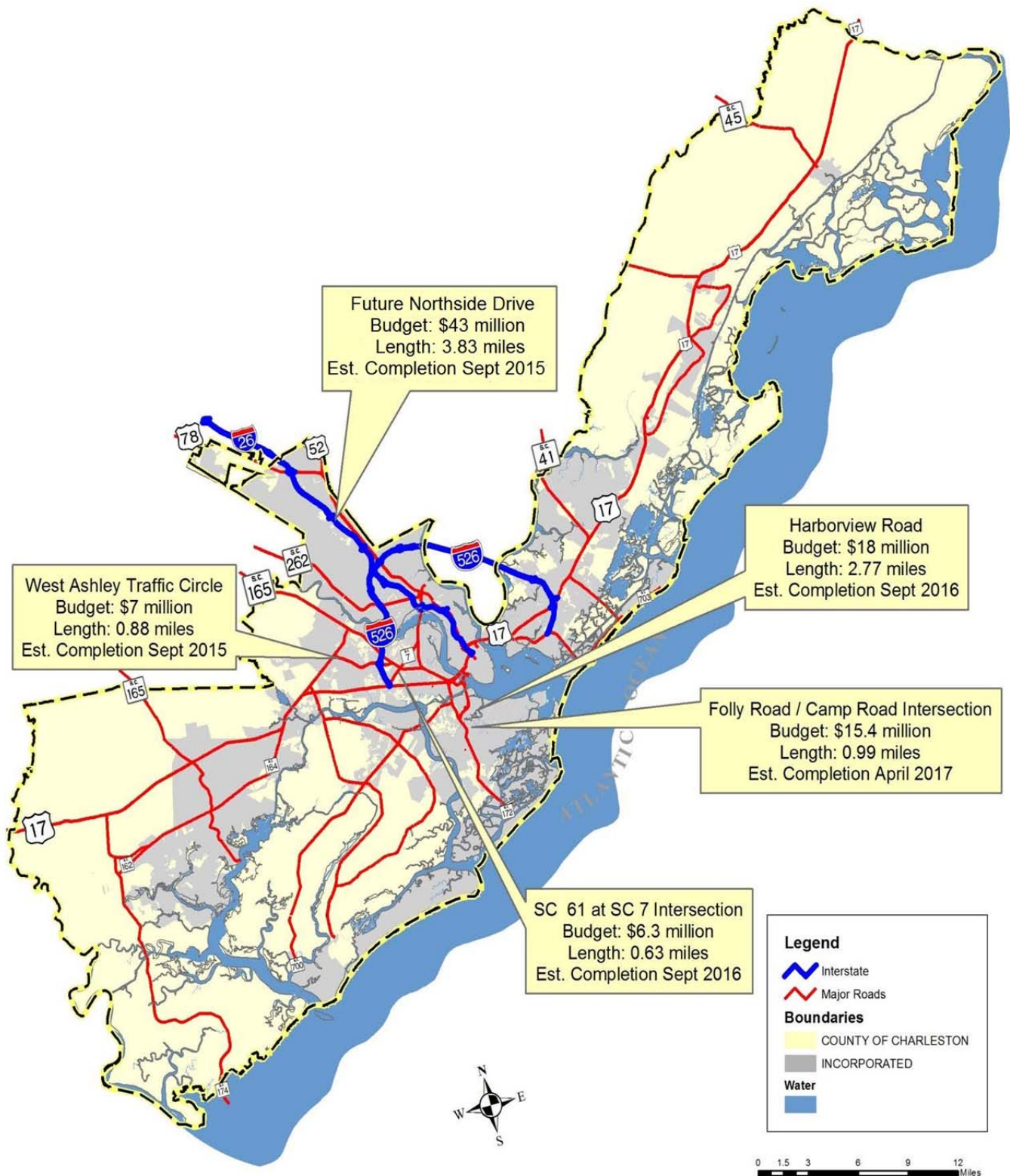
In addition, there are several large-scale projects, referred to as Bonded projects, that are funded through bond funds approved by referendums passed in 2004 and 2006. The bond funds provided immediate funds for use on the larger projects to be repaid through future half-cent sales tax revenues. The Bonded projects are included in the capital portion of the Comprehensive Plan of Expenditures.

The following map provides a project outline of five major transportation projects that are in progress during FY 2016. The map highlights the location, the budget, the length of the road and the estimated completion date.



# Capital Projects – Transportation Sales Tax

## Transportation Sales Tax FY 2016 Major Projects





# Capital Projects – Transportation Sales Tax

The recently completed Johnnie Dodds Boulevard Improvement Project has won numerous awards including:



- **2014 Beacon Award**  
*from Charleston Metro Chamber of Commerce*
- **2014 Outstanding Achievements in Transportation Project of the Year**  
*from the American Public Works Association S.C.*
- **Engineering Excellence Awards Competition – National Recognition Award**  
*from the American Council of Engineering Companies (ACEC)*



*Early construction of Johnny Dodds Blvd*

## Impact on the Operating Budget

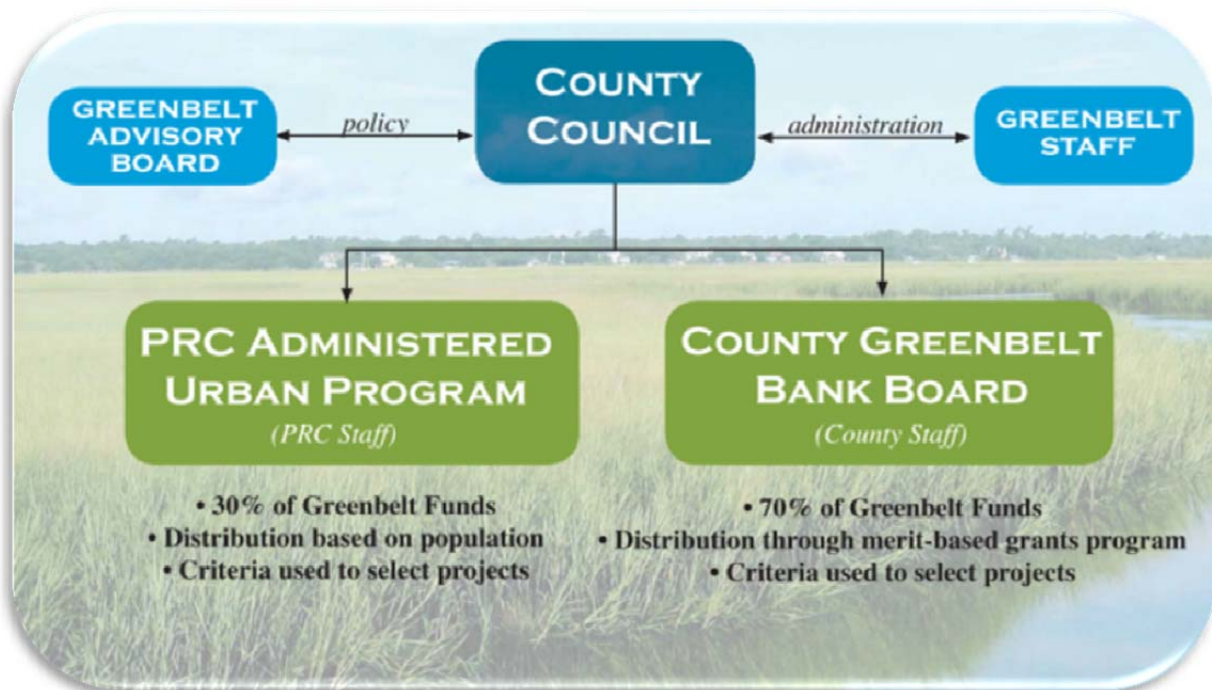
Charleston County expects the impact on the operating funds associated with the capital portion of the Transportation Sales Tax Comprehensive Plan of Expenditures for the roads program to be minimal. The majority of the funds is utilized for infrastructure repairs and improvements. There is a significant savings to the County's General Fund due to this program's existence.

# Capital Projects – Transportation Sales Tax

## Transportation Sales Tax: Greenbelt Program

The capital portion of the Greenbelt program is funded from existing bond issues and is administered by the Greenbelt Programs Department.

The Greenbelt Advisory Board was established by Charleston County Council to make recommendations on the greenbelt portion of the Transportation Sales Tax. The initial role of the Board was to prepare and deliver recommendations and comments on the Comprehensive Greenbelt Plan, which was adopted by County Council on June 6, 2006. The Board continues to garner public input while advocating for the implementation of the Greenbelt Plan. The Greenbelt Advisory Board consists of 14 members as follows: nine members appointed by County Council; one member, each, appointed by Charleston City Council, North Charleston City Council, Mount Pleasant Town Council; one member appointed by the County Council Chair from the unincorporated area of the Southern portion of the County; and one member appointed by the County Council Chair from the unincorporated area of the Northern portion of the County. The Greenbelt Advisory Board performs periodic reviews of the Greenbelt Plan and provides policy recommendations to County Council.



## Rural Greenbelt Program

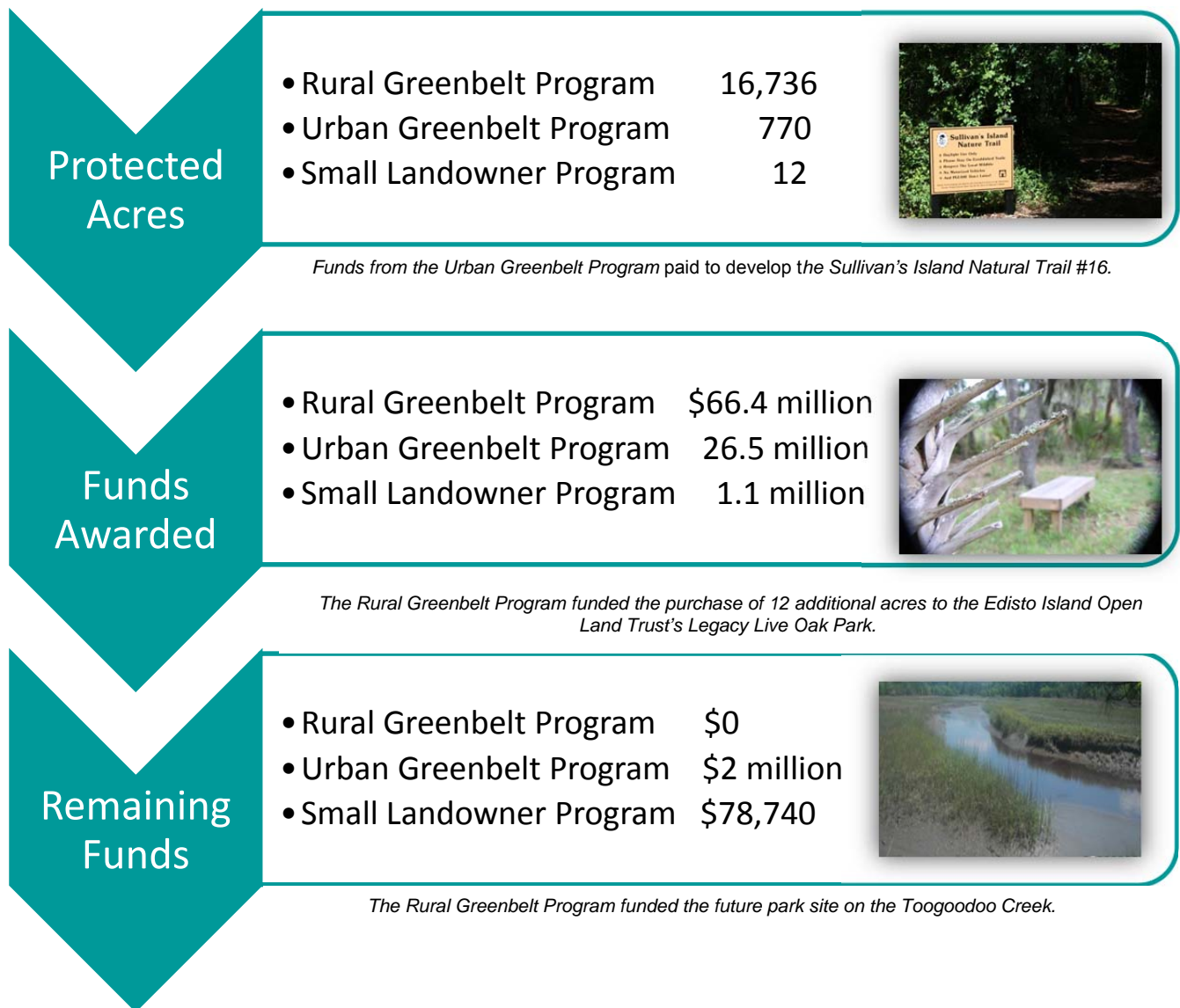
The Greenbelt Bank Board was established by Charleston County Council to address the loss of green space and promote balanced growth throughout the rural areas of the county. Through funding the acquisition of interest in real property from willing sellers; wildlife habitats, outstanding natural areas, sites of unique ecological significance, historical sites, forestlands, farmlands, watersheds, open space, and rural parklands will be preserved. The Greenbelt Bank Board consists of nine members appointed by Charleston County Council.

# Capital Projects – Transportation Sales Tax

## Urban Greenbelt Program

The Urban Grants Review Committee makes recommendations on funding urban projects and forwards them to the Charleston County Parks and Recreation Commission for review. The Commission forwards the recommendations to County Council for consideration.

The diagram below highlights the accomplishments of the Greenbelt Program.



## Impact on the Operating Budget

Although entities receiving the greenbelt funds are responsible for operating and maintaining the purchased or developed property, the County is responsible for monitoring the properties. The monitoring cost is funded from the Transportation Sales Tax and is included in the operating portion of the Comprehensive Plan of Expenditures and in the FY 2016 Greenbelt Programs budget.

