

General Capital Program

The six-year General Capital Program (GCP) reflects the capital needs of the General Government within Union County. Included in this program are projects that provide for the general services of government, including areas such as law enforcement, parks and recreation, libraries, information technology infrastructure, South Piedmont Community College, and others.

The projects included in this program comply with the requirements of the Union County Capital Improvement Program Management Policy.

The projects included in this program effect current and future operating budget appropriation. As part of the capital budgeting process, departments are required to estimate what the anticipated future operating budget impact will be. The operating budget impact is simply an estimate, and as the projects develop, estimates will become more defined as the projects mature. The anticipated operating budget impact includes appropriations for annual debt service, new positions and operating expenditures, change in maintenance costs, and variations in annual revenues.

Program Highlights

The GCP consists of eighteen capital programs and forty specific projects. The programs focus on specific service areas within County Government.

The majority of the GCP is comprised of Sheriff's Office, Facilities, South Piedmont Community College (SPCC), Community Services, Emergency Management and Tax Administration programs.

The Sheriff's Office program includes replacement, expansion and renovation projects to existing and future facilities, as well as the Firearms Training and Qualification Range.

The majority of the Facilities service area program is comprised of a major project for a new Human Services Campus with a few smaller maintenance and renewal projects. The Human Services Campus will house the Department of Social Services and Health Department.

The SPCC program consists of two projects for expansion of the current facilities on the Monroe Campus. The expansions include a

Multi-Purpose Building and a Center for Technology and Allied Health.

The Community Services area includes a major expansion to the Union West Library, and an additional new library in the South West region of the County, as well as future Park Development. The Park Development program includes a Master Plan.

The Emergency Management Services area includes a new 911 Center and replacement of microwave antennas.

The Tax Administration area includes one project for replacement of the Tax Assessor's Software.

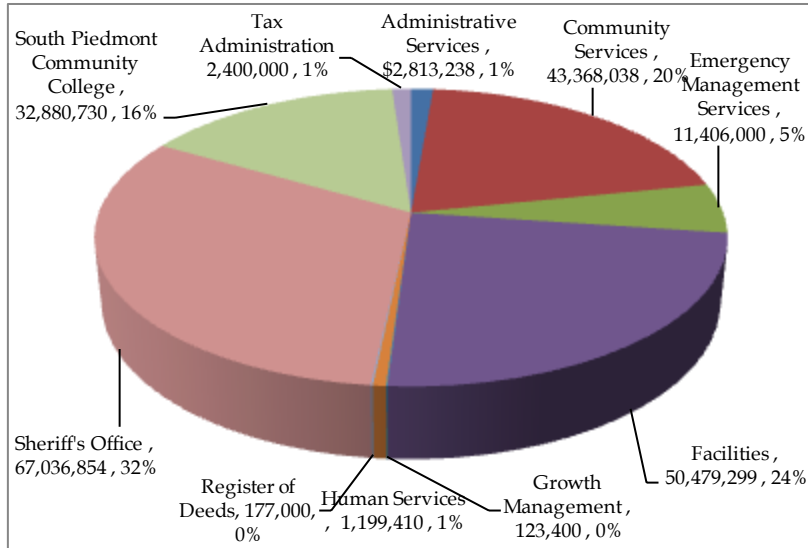
The Board of Elections will be required by N.C. General Statute 163.165 to replace voting equipment. New voting equipment must be in operations by Jan 1, 2018. The new law mandates that all voting equipment must produce a paper record of votes cast and provide a backup means of counting the vote that a voter casts. This will ban the touch-screen voting machines currently used by the County. The Board of Elections has not made a recommendation to the County at this time for replacement cost. During the FY 2017-2022 Capital Planning process the Board of Elections will provide to the County a recommended replacement cost and funding will be determined at that time.

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The following graph represents the total amount of the GCP at the Service Area level.

General Capital Six-Year Program	Service Area Total
Administrative Services	\$ 2,813,238
Community Services	43,368,038
Emergency Management Services	11,406,000
Facilities	50,479,299
Growth Management	123,400
Human Services	1,199,410
Register of Deeds	177,000
Sheriff's Office	67,036,854
South Piedmont Community College	32,880,730
Tax Administration	2,400,000
Total General Capital Programs	\$ 211,883,969



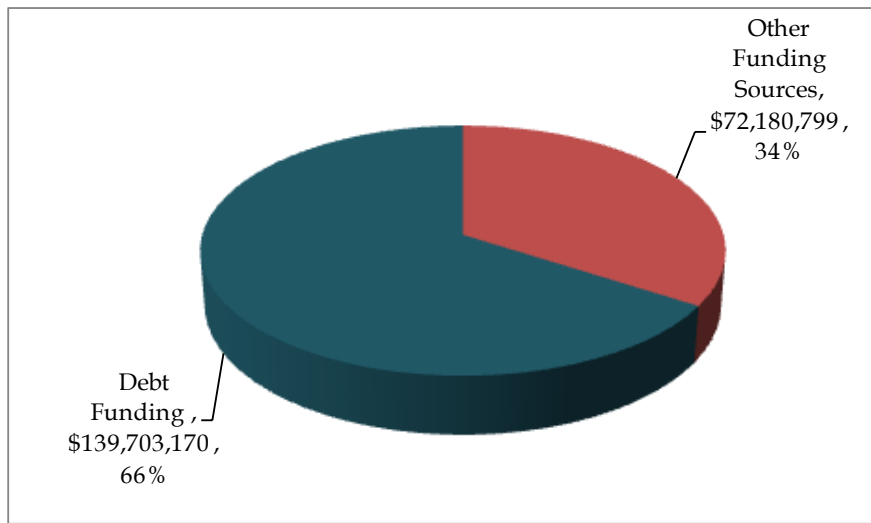
Within the Service Areas are eighteen capital programs. The following chart shows the various programs located within each service area.

General Capital Six-Year Program	Program Total
Administrative Services	
IT Infrastructure and Efficiency Enhancements	\$ 2,813,238
Total Administrative Services	2,813,238
Community Services	
4H Pavilion and Ancillary Facilities	5,777,353
Facilities Maintenance and Renewal	875,000
IT Infrastructure and Efficiency Enhancements	250,000
Jesse Helms Park Development	9,019,691
Library Expansion and Development	25,857,894
Park Development and Renewal	1,588,100
Total Community Services	43,368,038
Emergency Management Services	
E911	11,406,000
Total Emergency Management Services	11,406,000
Facilities	
Facilities Maintenance and Renewal	8,329,299
Human Services Campus	42,150,000
Total Facilities	50,479,299
Growth Management	
Growth Management	123,400
Total Growth Management	123,400
Human Services	
Automation and Record Management	1,199,410
Total Human Services	1,199,410
Register of Deeds	
Redaction Project	177,000
Total Register of Deeds	177,000
Sheriff's Office	
Firearms Training and Qualification Range	8,555,665
Jail and Sheriff's Office Replacement and Expansion	57,481,189
Renovations	1,000,000
Total Sheriff's Office	67,036,854
South Piedmont Community College	
South Piedmont Community College	32,880,730
Total SPCC	32,880,730
Tax Administration	
Tax Assessor Software Replacement	2,400,000
Total Tax Administration	2,400,000
Total General Capital Programs	\$ 211,883,969



Funding of the GCP is provided through a number of sources, including capital reserve funds, new debt, general fund pay-as-you-go (PayGo), grants, and contributions from other funds. The graph below represents the amount of funding that is anticipated through issuance of debt and other funding sources.

Fiscal Year	Other Funding Sources	Debt Funding	Total
Funded-to-Date	\$ 66,087,139	\$ 992,500	\$ 67,079,639
FY 2016 Adopted	295,560	-	295,560
FY 2017 Planned	2,254,500	2,400,000	4,654,500
FY 2018 Planned	1,413,600	3,435,777	4,849,377
FY 2019 Planned	1,430,000	6,706,050	8,136,050
FY 2020 Planned	350,000	126,168,843	126,518,843
FY 2021 Planned	350,000	-	350,000
Total	\$ 72,180,799	\$ 139,703,170	\$ 211,883,969



The largest source of funding planned is the use of General Obligation Bonds (GO Bonds). General obligation bonds are voted on by the residents via a referendum, with the exception of 2/3rds Bonds.

The following chart list which programs with proposed funding through General Obligation Bonds.

New General Obligation Bonds	Program Total
Emergency Management	\$ 10,566,000
Jail and Sheriff's Office Replacement and Expansion Program	55,558,444
Jesse Helms Park Development	7,500,249
Library Expansion and Development	25,857,894
4H Pavilion and Ancillary Facilities	5,697,353
South Piedmont Community College	31,130,730
Total GO Bond Funding	\$ 136,310,670

Based on the Union County Capital Improvement Program Management Policy and the County's Debt Policy, it is assumed that when voters approve the referendum debt, it also reflects affirmation of the related tax rate necessary to support the annual debt service.

To provide perspective, the value of each penny in ad valorem tax for FY 2016 is anticipated to generate \$2,304,000. The new GO Bonds would require an increase of approximately 5.95 cents by FY 2020.

Given the planned projects, and assuming a successful referendum, the total new general obligation debt for general capital projects would increase by about \$105.2 million by referendum. Assuming market conditions and other factors, the County's debt service for general capital projects would increase a total of \$10.6 million for both general government purpose debt and educational purpose debt, by the end of FY 2020.

The following chart represents the debt for general government purposes, showing current debt service payments, and future anticipated debt service payments with the issuance of new general obligation debt added in.



General Government Program Debt			
Fiscal Year	Principal	Interest	Total
Current Debt Service	\$ 2,394,621	\$ 633,312	\$ 3,027,933
FY 2016 Planned	2,401,106	563,678	2,964,784
FY 2017 Planned	2,404,991	493,153	2,898,144
FY 2018 Planned	2,761,295	542,747	3,304,041
FY 2019 Planned	8,750,762	5,729,249	14,480,011
FY 2020 Planned	7,577,087	5,361,226	12,938,313
FY 2021 Planned	6,815,187	5,015,913	11,831,100
Total	\$ 33,105,049	\$ 18,339,277	\$ 51,444,326

The SPCC program requires a successful voter referendum as well. The adopted SPCC education projects would increase general obligation debt by \$31.1 million. The additional funding for these SPCC projects would increase the County's debt service by \$3.1 million by the end of FY 2020, assuming market conditions and other factors.

The following chart represents the future anticipated debt service payments beginning in FY 2019, inclusive of proposed general obligation bonds for SPCC. SPCC is included as part of the Education Debt for the County as shown in the Debt Management section.

SPCC Program Debt			
Fiscal Year	Principal	Interest	Total
FY 2019 Planned	\$ 1,580,000	\$ 1,572,500	\$ 3,152,500
FY 2020 Planned	1,580,000	1,493,500	3,073,500
FY 2021 Planned	1,580,000	1,414,500	2,994,500
Total	\$ 4,740,000	\$ 4,480,500	\$ 9,220,500

The GCP includes an additional \$2.4 million of installment financing. This financing will be used to replace the Tax Assessment and Administration Software. The length of the financing will be matched to the estimated useful life of the

system. The current amount is an estimate and will be refined as the system specifications and better pricing information becomes available.

In addition to the GO Bonds and Installment Financing, the GCP includes the use of \$72.5 million of PayGo funding. The majority of the PayGo funding was previously appropriated funding in the amount of \$66.4 million. The majority of this funding was from the one-time hospital lease revenue, based on Board direction, \$42.1 million of the hospital lease revenue was appropriated for the Human Services Campus project.

In addition to the Human Services Facility, the Firearms Training and Qualifications Range was previously funded through \$8.5 million of PayGo.

The remaining \$2.4 million of PayGo funding is recommended for smaller facility and technology enhancement projects.

The use of Utility Fund Balance was previously appropriated as part of the proportional contribution for the "Countywide Phone System Upgrade to VoIP" project that remains open.

Operating Budget Impact

Given the new and expanded facilities recommended, it is anticipated that there will be significant increases in operating cost. These operating costs will become better defined as the projects and operating plans are further developed.

Additionally, many of the enhancement projects will generate both real dollar savings as well as efficiencies within the organization.

The debt impact, based on the GO Bonds was discussed in more detail within the funding strategy of GCP and the portion of the Debt Management section that discusses the County's total.

The following chart shows the summary of the anticipated operating budget impact by service area that is determined at this time.



General Capital Program Operating Budget Impact FY 2016-2021							
Service Areas	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
Administrative Services							
IT Infrastructure and Efficiency Enhancements	115,400	115,400	115,400	115,400	115,400	115,400	692,400
Total Administrative Services	115,400	115,400	115,400	115,400	115,400	115,400	692,400
Community Services							
4H Pavilion and Ancillary Facilities	-	-	-	597,000	582,000	567,000	1,746,000
Facilities Maintenance and Renewal	-	-	-	-	-	-	-
Jesse Helms Park Development	-	-	-	777,500	758,000	738,500	2,274,000
Library Expansion and Development	-	-	-	2,619,000	2,553,500	2,488,000	7,660,500
Park Development and Renewal	-	-	-	83,790	83,790	83,790	251,370
Total Community Services	-	-	-	4,077,290	3,977,290	3,877,290	11,931,870
Emergency Management Services							
E911 Center	-	-	-	1,091,500	1,064,000	1,036,500	3,192,000
Total Emergency Management Services	-	-	-	1,091,500	1,064,000	1,036,500	3,192,000
Facilities							
Facilities Maintenance and Renewal	-	-	-	-	-	-	-
Human Services Campus	-	-	(469,667)	(469,667)	(469,667)	(469,667)	(1,878,668)
Total Facilities	-	-	(469,667)	(469,667)	(469,667)	(469,667)	(1,878,668)
Growth Management							
Growth Management	3,000	3,000	3,000	3,000	3,000	3,000	18,000
Total Growth Management	3,000	3,000	3,000	3,000	3,000	3,000	18,000
Human Services							
Automation and Record Management	228,496	228,496	228,496	228,496	228,496	228,496	1,370,976
Total Human Services	228,496	228,496	228,496	228,496	228,496	228,496	1,370,976
Sheriff's Office							
Firearms Training and Qualification Range	-	-	-	-	-	-	-
Jail and Sheriff's Office Replacement and Expansion	-	-	-	5,599,000	5,459,000	5,319,000	16,377,000
Law Enforcement Facilities Expansion and Renovations	-	-	-	-	-	-	-
Total Sheriff's Office	-	-	-	5,599,000	5,459,000	5,319,000	16,377,000
Community Partners							
South Piedmont Community College	-	-	-	3,153,500	3,074,500	2,995,500	9,223,500
Total Community Partners	-	-	-	3,153,500	3,074,500	2,995,500	9,223,500
Tax Administration							
Tax Assessor Software Replacement	-	-	466,714	449,429	432,143	414,857	1,763,143
Total Tax Administration	-	-	466,714	449,429	432,143	414,857	1,763,143
Total Operating Budget Impact	\$346,896	\$346,896	\$ 343,943	\$ 14,247,948	\$ 13,884,162	\$ 13,520,376	\$ 42,690,221



General Capital Program

Section Summary

Resource Summary

Summary	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Capital Reserve Fund	0	0	0	0	0	0	0	0
FY 2018 General Obligation Bonds	0	0	0	-3,435,777	-6,706,050	-126,168,843	0	-136,310,670
General Pay Go	-64,333,560	-295,560	-2,254,500	-1,413,600	-1,430,000	-350,000	-350,000	-70,427,220
GO Bonds	-992,500	0	0	0	0	0	0	-992,500
Grant Funding	-512,205	0	0	0	0	0	0	-512,205
Installment Financing	0	0	-2,400,000	0	0	0	0	-2,400,000
Other Activities	-913,874	0	0	0	0	0	0	-913,874
Utility Fund Balance	-327,500	0	0	0	0	0	0	-327,500
Total REVENUE	-67,079,639	-295,560	-4,654,500	-4,849,377	-8,136,050	-126,518,843	-350,000	-211,883,969

Programs	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
911 Communications								
Emergency Management	0	0	280,000	1,789,900	780,000	8,556,100	0	11,406,000
Total 911 Communications	0	0	280,000	1,789,900	780,000	8,556,100	0	11,406,000
Building Code Enforcement								
Growth Management	123,400	0	0	0	0	0	0	123,400
Total Building Code Enforcement	123,400	0	0	0	0	0	0	123,400
Community Partners								
South Piedmont Community College	1,750,000	0	0	0	0	31,130,730	0	32,880,730
Total Community Partners	1,750,000	0	0	0	0	31,130,730	0	32,880,730
Cooperative Extension								
4H Pavilion and Ancillary Facilities	80,000	0	0	743,133	0	4,954,220	0	5,777,353
Total Cooperative Extension	80,000	0	0	743,133	0	4,954,220	0	5,777,353

Facilities Management

General Capital Program

Section Summary

Resource Summary

Programs	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
Facilities Management								
Facilities Maintenance and Renewal	6,883,739	170,560	375,000	225,000	225,000	225,000	225,000	8,329,299
Human Services Campus	42,150,000	0	0	0	0	0	0	42,150,000
Total Facilities Management	49,033,739	170,560	375,000	225,000	225,000	225,000	225,000	50,479,299
Information Technology								
IT Infrastructure and Efficiency Enhancements	2,420,238	0	570,000	0	0	0	0	2,990,238
Total Information Technology	2,420,238	0	570,000	0	0	0	0	2,990,238
Library								
Facilities Maintenance and Renewal	125,000	125,000	125,000	125,000	125,000	125,000	125,000	875,000
IT Infrastructure and Efficiency Enhancements	0	0	250,000	0	0	0	0	250,000
Library Expansion and Development	0	0	0	1,182,744	2,624,808	22,050,342	0	25,857,894
Total Library	125,000	125,000	375,000	1,307,744	2,749,808	22,175,342	125,000	26,982,894
Parks & Recreation								
Jesse Helms Park Development	1,519,442	0	0	0	519,858	6,980,391	0	9,019,691
Park Development and Renewal	100,000	0	604,500	83,600	800,000	0	0	1,588,100
Total Parks & Recreation	1,619,442	0	604,500	83,600	1,319,858	6,980,391	0	10,607,791
Public Health								
Human Services Automation and Record Management	175,000	0	0	0	0	0	0	175,000
Total Public Health	175,000	0	0	0	0	0	0	175,000
Sheriff's Office								
Firearms Training and Qualifications Range	8,555,665	0	0	0	0	0	0	8,555,665
Jail and Sheriff's Office Replacement and Expansion Program	1,922,745	0	0	0	3,061,384	52,497,060	0	57,481,189

General Capital Program

Section Summary

Resource Summary

Programs	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
Sheriff's Office								
Law Enforcement Facilities Expansion & Renovations	250,000	0	50,000	700,000	0	0	0	1,000,000
Total Sheriff's Office	10,728,410	0	50,000	700,000	3,061,384	52,497,060	0	67,036,854
Social Services								
Human Services Automation and Record Management	1,024,410	0	0	0	0	0	0	1,024,410
Total Social Services	1,024,410	0	0	0	0	0	0	1,024,410
Tax Administration								
Tax Assessment and Administration Software Replacement	0	0	2,400,000	0	0	0	0	2,400,000
Total Tax Administration	0	0	2,400,000	0	0	0	0	2,400,000

4H Pavilion and Ancillary Facilities

Program Detail

Program Scope

Program provides for a feasibility study, design, and construction for a Pavilion and Ancillary Facilities to serve the equestrian, livestock, and greater area needs of the community.

Program Operating Budget Impact

The operating cost will become better defined as the projects and operating plans are further developed. After the study is complete if the direction of the Commission is to construct the 4H Pavilion it would require that General Obligation Bonds be issued in FY 2018. The operating impact from the issuance of General Obligation Bonds of \$5,697,353 will have a maximum annual debt service impact for this program of \$597,000.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 General Obligation Bonds	0	0	0	-743,133	0	-4,954,220	0	-5,697,353
General Pay Go	-80,000	0	0	0	0	0	0	-80,000
Total REVENUE	-80,000	0	0	-743,133	0	-4,954,220	0	-5,777,353
Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
PR067 4H Pavillion/Ancillary Facilites	80,000	0	0	743,133	0	4,954,220	0	5,777,353
Total EXPENDITURES	80,000	0	0	743,133	0	4,954,220	0	5,777,353

4H Pavillion/Ancillary Facilites

Project Detail

4H Pavilion and Ancillary Facilities

Project Scope

Project provides for a feasibility study, design, and construction for a Pavilion and Ancillary Facilities to serve the equestrian, livestock, and greater area needs.

Project Justification and History

During the initial discussions about the Union County Agricultural Services Center, opened in 2005, the topic of an event center (Pavilion) at the site was included. After the construction of the Services and Conference Center, discussions about the Pavilion continued. Some conversations between interested parties were held, but with very little formal planning. The end result was that there was some community interest in a facility to potentially hold livestock shows, horse shows, tractor shows and pull events, indoor concerts and other community events that could be held in an enclosed but non-climate controlled facility. However, over the years nothing has been done to formalize the level of community interest, the potential uses of such a facility or the cost/benefits of such a facility. This proposal should address those issues. While there has been discussion about such a facility, there needs to be a larger discussion with stakeholders to determine if it is a priority. Also, there needs to be input as to the community's expectations of what such a facility should be and how it should function. These factors are essential to determining the public's willingness to pay for and use such a facility. If there is public support around the idea of such a facility, then input must be generated as to expectations related to size and configuration. Operational expectations related to potential uses and governing policies should also be generated. In the limited previous discussions about the facility there has been an assumption that the best site is on the present Agricultural Center property. The discussion should allow for open input as to thoughts about this site and/or others and the study should provide an interpretation of those thoughts. Even though they may be very preliminary, cost projections for the size, configuration and function of such a facility should be estimated. Also, any potential for a phased construction process should be considered and outlined.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 General Obligation Bonds	0	0	0	-743,133	0	-4,954,220	0	-5,697,353
General Pay Go	-80,000	0	0	0	0	0	0	-80,000
Total REVENUE	-80,000	0	0	-743,133	0	-4,954,220	0	-5,777,353
EXPENDITURES								
Other Activities	80,000	0	0	743,133	0	4,954,220	0	5,777,353
Total EXPENDITURES	80,000	0	0	743,133	0	4,954,220	0	5,777,353
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Emergency Management

Program Detail

Program Scope

Program provides for the capital improvement needs of Emergency Management Services including Communications and Fire Services.

Program Operating Budget Impact

These expenditures primarily represent improvements to Emergency Management capital equipment and new infrastructure for E911. The operating impact for improvements to capital equipment should be minimal. The E911 Center is funded from the issuance of General Obligation Bonds of \$10,566,000 in FY 2018. The maximum annual debt service impact for this program will be \$1,091,500 and is projected to begin in FY 2019 and retire in FY 2038.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 General Obligation Bonds	0	0	0	-1,509,900	-500,000	-8,556,100	0	-10,566,000
General Pay Go	0	0	-280,000	-280,000	-280,000	0	0	-840,000
Total REVENUE	0	0	-280,000	-1,789,900	-780,000	-8,556,100	0	-11,406,000
Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
EM001 Microwaves	0	0	280,000	280,000	280,000	0	0	840,000
EM002 E911 Center	0	0	0	1,509,900	500,000	8,556,100	0	10,566,000
Total EXPENDITURES	0	0	280,000	1,789,900	780,000	8,556,100	0	11,406,000

Microwaves

Project Detail

Emergency Management

Project Scope

Replacement of the eight microwave antennas used to transmit public safety radio communications between the county radio towers and the shared regional master site.

Project Justification and History

The microwaves currently in use were installed in 2008 as part of the P25 800 MHz radio system and are essential to public safety communications. The current units have reached end of life and are scheduled for replacement. The Charlotte Radio shop advises that the units will not be serviceable after 2019, if not before. The manufacturer was bought and the product line has been discontinued.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
<i>REVENUE</i>								
General Pay Go	0	0	-280,000	-280,000	-280,000	0	0	-840,000
Total REVENUE	0	0	-280,000	-280,000	-280,000	0	0	-840,000
<i>EXPENDITURES</i>								
Other Activities	0	0	280,000	280,000	280,000	0	0	840,000
Total EXPENDITURES	0	0	280,000	280,000	280,000	0	0	840,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

E911 Center

Project Detail

Emergency Management

Project Scope

This project provides for the construction of the Union County Emergency Services Facility. Project provides for the detailed design, necessary infrastructure and facilities development including power supply, land acquisition, building design to 911 required compliance, EMA/Fire Marshal/ES uses and related development needs. Estimated 40,000 square foot facility.

Project Justification and History

The Union County Emergency Communications Department remodeled in September, 2011 with the plan to move to a more permanent facility within 3-5 years.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 General Obligation Bonds	0	0	0	-1,509,900	-500,000	-8,556,100	0	-10,566,000
Total REVENUE	0	0	0	-1,509,900	-500,000	-8,556,100	0	-10,566,000
EXPENDITURES								
Construction	0	0	0	0	0	8,556,100	0	8,556,100
Design and Engineering	0	0	0	1,509,900	0	0	0	1,509,900
Land Acquisition	0	0	0	0	500,000	0	0	500,000
Total EXPENDITURES	0	0	0	1,509,900	500,000	8,556,100	0	10,566,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Facilities Maintenance and Renewal

Program Detail

Program Scope

Program provides for facilities maintenance and renewal at existing County facilities. Projects in this program include items such as chiller replacements, various energy savings projects, and other facility related items. Additionally, a study is recommended that will provide a long-term renovation plan for the Historic County Courthouse.

Program Operating Budget Impact

These expenditures primarily represent routine improvements and renovations to existing County facilities, it is assumed that operating expenses will remain constant with current operating costs for the existing spaces. In cases where efficiencies are made with building renovations, or systems are replaced with those that are more energy-efficient, there may be annual energy savings.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-6,158,808	-295,560	-500,000	-350,000	-350,000	-350,000	-350,000	-8,354,368
Other Activities	-849,931	0	0	0	0	0	0	-849,931
Total REVENUE	-7,008,739	-295,560	-500,000	-350,000	-350,000	-350,000	-350,000	-9,204,299

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
PR028 HISTORIC POST OFFICE RENOVATIONS	160,151	0	0	0	0	0	0	160,151
PR056 Energy Savings Project	122,675	45,560	0	0	0	0	0	168,235
PR064 HCH Renovation	75,000	0	250,000	100,000	100,000	100,000	100,000	725,000
PR070 Monroe Main Lib Chiller Replc	200,000	0	0	0	0	0	0	200,000
PR071 County Facilities Repair	125,000	125,000	125,000	125,000	125,000	125,000	125,000	875,000
PR072 Community Services Replacement And Renewal	125,000	125,000	125,000	125,000	125,000	125,000	125,000	875,000
PR074 Audio Visual Equipment	550,000	0	0	0	0	0	0	550,000
PR280 2005GS2, 2006GS4 - GOV FAC RENOV	5,650,913	0	0	0	0	0	0	5,650,913
Total EXPENDITURES	7,008,739	295,560	500,000	350,000	350,000	350,000	350,000	9,204,299

HISTORIC POST OFFICE RENOVATIONS

Project Detail

Facilities Maintenance and Renewal

Project Scope

Project provides for renovations to the Historic Old Post Office.

Project Justification and History

Previously approved capital project adopted by BOCC in FY 2006.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-160,151	0	0	0	0	0	0	-160,151
Total REVENUE	-160,151	0	0	0	0	0	0	-160,151
EXPENDITURES								
Construction	160,151	0	0	0	0	0	0	160,151
Total EXPENDITURES	160,151	0	0	0	0	0	0	160,151
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Energy Savings Project

Project Detail

Facilities Maintenance and Renewal

Project Scope

Project provides for the replacement of heating, ventilation, and air conditioning units (HVAC), installation of lighting controls, and other energy saving technologies at various County facilities.

Project Justification and History

HVAC Units at Public School Administration, Group Home and Transportation building are reaching the end of their life expectancy. Replacing these units with more efficient systems will produce significant energy savings. Current units use a cooling medium that is obsolete.

Energy Savings Grant funds were used to install lighting controls in the Judicial Center; unfortunately the individual floors were not connected into one controller. These funds are requested to make necessary changes, tying all floors together.

Renovations in the Government Center began in 2006. Lighting Control was not installed when the first through fifth floors were complete. Since that time energy code has changed and lighting controls have become mandatory.

Union County was allocated \$751,800 through an Energy Efficiency and Conservation Community Block Grant (EECBG) from the Department of Energy. The previously unfunded program received stimulus appropriation from the federal American Recovery and Reinvestment Act of 2009 (ARRA). Using the funds, Union County was required to develop and implement projects to improve energy efficiency and reduce emissions. Union County has implemented several energy saving strategies at a number of their facilities. Utility consumption data taken over the past four fiscal years (2009-2012) show an energy savings of 4,134,315 kBtu / \$44,997. The strategy is to reinvest these energy savings from those projects into additional projects.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-106,312	-45,560	0	0	0	0	0	-151,872
Other Activities	-16,363	0	0	0	0	0	0	-16,363
Total REVENUE	-122,675	-45,560	0	0	0	0	0	-168,235
EXPENDITURES								
Other Activities	122,675	45,560	0	0	0	0	0	168,235
Total EXPENDITURES	122,675	45,560	0	0	0	0	0	168,235
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

HCH Renovation

Project Detail

Facilities Maintenance and Renewal

Project Scope

Project provides for a study of the Historic County Courthouse. The study will include a plan for renovation. Once the study is complete the study will be the basis for future renovation and restoration projects.

Project Justification and History

The Historic Courthouse was constructed in 1886 and serves as an iconic community asset. In recent years as County services have transitioned to more modern spaces, the usage of the Courthouse has been greatly diminished. There are a number of possibilities for future uses. The proposed study will provide the options for those uses and provide guidance concerning renovations and restorations, including needed safety enhancements, based on the final determined use. The study is the first step in the long-term renovation and restoration process. Currently the Historic Courthouse has issues with water infiltration in the clock tower as well as the basement. Additionally, the HCH needs to have a fire sprinkler system installed and ADA accessibility needs improvements. The courtroom needs the ceiling refurbished to its original smooth finish and the frieze is badly damaged in many places. The roof also needs attention and will only get worse over time.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-75,000	0	-250,000	-100,000	-100,000	-100,000	-100,000	-725,000
Total REVENUE	-75,000	0	-250,000	-100,000	-100,000	-100,000	-100,000	-725,000
EXPENDITURES								
Construction	0	0	250,000	100,000	100,000	100,000	100,000	650,000
Design and Engineering	0	0	0	0	0	0	0	0
Studies	75,000	0	0	0	0	0	0	75,000
Total EXPENDITURES	75,000	0	250,000	100,000	100,000	100,000	100,000	725,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Monroe Main Lib Chiller Replc

Project Detail

Facilities Maintenance and Renewal

Project Scope

Replace existing chiller at Monroe Main Library.

Project Justification and History

The existing chiller was installed during Library renovations in late 2001. The chiller is a unit that produces the cooling needs for the main Library located in Monroe. Average life expectancy of a chiller is about fifteen years. The chiller will be at the end of its service life in fiscal year 2015 and the cooling medium the unit uses is already obsolete. Numerous repairs have made to the current chiller over the past two years. The current chiller could potentially require costly repairs should it go down during the summer months. Replacing the chiller as scheduled should eliminate a disruption of service. Technology has advanced significantly in the past ten years and the increased efficiency would help mitigate the purchase cost.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
<i>REVENUE</i>								
General Pay Go	-200,000	0	0	0	0	0	0	-200,000
Total REVENUE	-200,000	0	0	0	0	0	0	-200,000
<i>EXPENDITURES</i>								
Construction	200,000	0	0	0	0	0	0	200,000
Total EXPENDITURES	200,000	0	0	0	0	0	0	200,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

County Facilities Repair

Project Detail

Facilities Maintenance and Renewal

Project Scope

Project provides working capital for ongoing maintenance and repairs for County facilities.

Project Justification and History

The funds appropriated in this project will roll from year to year if funding is unspent. These funds will ensure the County has adequate funding in place for ongoing maintenance, repairs, and emergencies repairs that may arise.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total	
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021		
REVENUE									
General Pay Go	-125,000	-125,000	-125,000	-125,000	-125,000	-125,000	-125,000	-125,000	-875,000
Total REVENUE	-125,000	-125,000	-125,000	-125,000	-125,000	-125,000	-125,000	-125,000	-875,000
EXPENDITURES									
Other Activities	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	875,000
Total EXPENDITURES	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	875,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0	0

Community Services Replacement And Renewal

Project Detail

Facilities Maintenance and Renewal

Project Scope

Project provides funding for ongoing Community Services Infrastructure and Facilities.

Project Justification and History

The funds appropriated in this project can be used for any Community Services infrastructure or Facility needs.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-125,000	-125,000	-125,000	-125,000	-125,000	-125,000	-125,000	-875,000
Total REVENUE	-125,000	-125,000	-125,000	-125,000	-125,000	-125,000	-125,000	-875,000
EXPENDITURES								
Other Activities	125,000	125,000	125,000	125,000	125,000	125,000	125,000	875,000
Total EXPENDITURES	125,000	125,000	125,000	125,000	125,000	125,000	125,000	875,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Audio Visual Equipment

Project Detail

Facilities Maintenance and Renewal

Project Scope

Audio Visual Equipment replacement in County Facilities.

Project Justification and History

The majority of the AV equipment in County facilities is at least ten years old. AV equipment typically has about an eight year life expectancy due to potential failure and the equipment becoming obsolete due to improvements in technology. The AV equipment in the courtrooms at the Union County Judicial Center is especially critical and is in almost constant use. A major failure in any of the courtrooms would have a significant impact on the Courts ability to conduct their daily operations. While the Agricultural Center has had some significant upgrades to its AV system during the FY15 fiscal year there are several remaining needs to include the replacement of the projectors and screens in two of the three main function halls. The AV equipment in the Government Center, especially in the Commissioners’ meeting chambers, is in dire need of upgrades to improve both reliability and broadcast quality.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-550,000	0	0	0	0	0	0	-550,000
Total REVENUE	-550,000	0	0	0	0	0	0	-550,000
EXPENDITURES								
FF&E	550,000	0	0	0	0	0	0	550,000
Total EXPENDITURES	550,000	0	0	0	0	0	0	550,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

2005GS2, 2006GS4 - GOV FAC RENOV

Project Detail

Facilities Maintenance and Renewal

Project Scope

Project provides for renovations to existing County Government Facilities.

Project Justification and History

Previously approved capital project.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-4,817,345	0	0	0	0	0	0	-4,817,345
Other Activities	-833,568	0	0	0	0	0	0	-833,568
Total REVENUE	-5,650,913	0	0	0	0	0	0	-5,650,913
EXPENDITURES								
Construction	5,650,913	0	0	0	0	0	0	5,650,913
Total EXPENDITURES	5,650,913	0	0	0	0	0	0	5,650,913
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Firearms Training and Qualifications Range

Program Detail

Program Scope

Program provides for the development of a Union County Sheriff's Office Firearms Training and Qualifications Range.

Program Operating Budget Impact

The Firearms Training and Qualification Range is currently being designed. Once the design is in place we will be able to better determine the operating budget impact.

The current staff in the Training Bureau at the Sheriff's Office will be responsible for operating the Firearms Range and it is not anticipated at this time to require additional personnel.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-7,996,838	0	0	0	0	0	0	-7,996,838
GO Bonds	-525,000	0	0	0	0	0	0	-525,000
Other Activities	-33,827	0	0	0	0	0	0	-33,827
Total REVENUE	-8,555,665	0	0	0	0	0	0	-8,555,665

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
PR020 Law Enforcement - Firearms Range	8,555,665	0	0	0	0	0	0	8,555,665
Total EXPENDITURES	8,555,665	0	0	0	0	0	0	8,555,665

Law Enforcement - Firearms Range

Project Detail

Firearms Training and Qualifications Range

Project Scope

This project provides for the construction of the Union County Sheriff's Office Firearms Training and Qualification Range. Project provides for the detailed design, necessary infrastructure and facilities development including backstops, flood lights, range house, target stand system, and related development needs.

Project Justification and History

The Sheriff's Training and Standards Commission (STSC) requires annual firearms qualification for all authorized Officers. This requirement includes daytime handgun, shotgun, and combat courses and nighttime handgun, shotgun, and combat courses. It also includes qualifications with all specialty weapons. As this Agency's staffing grows, the need for our own range grows. Officers and SRT personnel must practice fire at least monthly in order to maintain a higher level of proficiency commensurate with the liability associated with those particular job functions.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-7,996,838	0	0	0	0	0	0	-7,996,838
GO Bonds	-525,000	0	0	0	0	0	0	-525,000
Other Activities	-33,827	0	0	0	0	0	0	-33,827
Total REVENUE	-8,555,665	0	0	0	0	0	0	-8,555,665
EXPENDITURES								
Construction	7,253,523	0	0	0	0	0	0	7,253,523
Land Acquisition	1,302,142	0	0	0	0	0	0	1,302,142
Total EXPENDITURES	8,555,665	0	0	0	0	0	0	8,555,665
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Growth Management

Program Detail

Program Scope

Program provides for capital need for Growth Management. Growth Management facilitates well-designed, efficient, healthy, and safely built developments and structures. Responsibilities include long-range planning, zoning, building permitting, building inspection and development review. In coordination with state and federal laws, Growth Management ensures compliance with all county codes and regulations, including the North Carolina Building Code and Union County Zoning Ordinances.

Program Operating Budget Impact

The Inspections Mobile Office will have an annual software maintenance fee of \$3,000. Any additional cost would be acquired on an as needed basis for modifications to reporting.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-123,400	0	0	0	0	0	0	-123,400
Total REVENUE	-123,400	0	0	0	0	0	0	-123,400
Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
PR050 Inspections Mobile Office	123,400	0	0	0	0	0	0	123,400
Total EXPENDITURES	123,400	0	0	0	0	0	0	123,400

Inspections Mobile Office

Project Detail

Growth Management

Project Scope

Project provides for a new Building Code Enforcement Inspections Mobile Office.

Project Justification and History

Previously approved capital project.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-123,400	0	0	0	0	0	0	-123,400
Total REVENUE	-123,400	0	0	0	0	0	0	-123,400
EXPENDITURES								
FF&E	100,744	0	0	0	0	0	0	100,744
Other Activities	22,656	0	0	0	0	0	0	22,656
Total EXPENDITURES	123,400	0	0	0	0	0	0	123,400
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Human Services Automation and Record Management

Program Detail

Program Scope

Program provides for the automation and technology enhancements necessary to address the changing needs of the Human Services record keeping requirements as the Patient Protection and Affordability Care Act and other changing federal and state requirements are implemented.

Program Operating Budget Impact

The DSS Business Automation project will have an operational budget impact of \$178,496 on an annual basis. These cost include software maintenance of \$175,130 and hardware support of \$3,366.

The Electronic Medical Records project will have an operational budget impact of \$50,000 on an annual basis for maintenance fees.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-687,205	0	0	0	0	0	0	-687,205
Grant Funding	-512,205	0	0	0	0	0	0	-512,205
Total REVENUE	-1,199,410	0	0	0	0	0	0	-1,199,410

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
PR051 DSS Business Automation	0	0	0	0	0	0	0	0
PR061 DSS Business Automation Ph II	1,024,410	0	0	0	0	0	0	1,024,410
PR063 Electronic Med Records (Health)	175,000	0	0	0	0	0	0	175,000
Total EXPENDITURES	1,199,410	0	0	0	0	0	0	1,199,410

DSS Business Automation

Project Detail

Human Services Automation and Record Management

Project Scope

Project provides for implementation of document imaging to a paperless system; ensuring efficiency and timeliness in delivery of services provided to the citizens of Union County. To effectively manage client appointments and improve client business flow; reducing wait times for Union County citizens.

Project Justification and History

Document imaging at Union County Department of Social Services (UCDSS) is required due to the mandatory roll out of NC Fast (North Carolina Families Accessing Services through Technology) State software initiative. NC Fast is a comprehensive case management system designed to improve the business processes Social Services perform by creating an electronic client record. This enables caseworkers to spend less time performing administrative tasks and more time assisting families. NC Fast automation tools assist in determining eligibility, evaluating outcomes and ensuring accountability across all programs and counties in North Carolina. Implementation of Phase I and Phase II is complete. Phase III implementation of NC Fast will include Adult and Children Services and was implemented in FY 2014-2015.

Union County DSS has completed document imaging of current client records in Food and Nutrition Services, Medicaid, Work First and the Day Care units. With approval of the CIP, UCDSS will be able to implement NC Fast successfully in these departments.

Union County DSS implemented document imaging for the Adult Protective Services units in June, 2013.

According to the State's record retention policy the Adoption and Child Protective Service client files must be kept indefinitely. Scanning of these files will provide a secure setting to store the documents. Once scanning is complete, these files can be imported into our Document Imaging Software at Union County Department of Social Services (UCDSS), for easy access and is a requirement of the NC Fast State software initiative.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	0	0	0	0	0	0	0	0
Total REVENUE	0	0	0	0	0	0	0	0
EXPENDITURES								
FF&E	0	0	0	0	0	0	0	0
Other Activities	0	0	0	0	0	0	0	0
Total EXPENDITURES	0	0	0	0	0	0	0	0
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

DSS Business Automation Ph II

Project Detail

Human Services Automation and Record Management

Project Scope

To continue implementation of document imaging to a paperless system; ensuring efficiency and timeliness in delivery of services provided to the citizens of Union County. To effectively manage client appointments and improve client business flow; reducing wait times for Union County citizens.

Project Justification and History

Document imaging at Union County Department of Social Services (UCDSS) is required due to the mandatory roll out of NC Fast (North Carolina Families Accessing Services through Technology) State software initiative. NC Fast is a comprehensive case management system designed to improve the business processes Social Services perform by creating an electronic client record. This enables caseworkers to spend less time performing administrative tasks and more time assisting families. NC Fast automation tools assist in determining eligibility, evaluating outcomes and ensuring accountability across all programs and counties in North Carolina. Implementation of Phase I and Phase II is complete. Phase III implementation of NC Fast will include Adult and Children Services and should be implemented by the end of 2014.

Union County DSS has completed document imaging of current client records in Food and Nutrition Services, Medicaid, Work First and the Day Care units. With approval of the CIP, UCDSS will be able to implement NC Fast successfully in these departments.

Union County DSS is scheduled to implement document imaging for the Adult Protective Services units in June, 2013.

According to the State's record retention policy the Adoption and Child Protective Service client files must be kept indefinitely. Scanning of these files will provide a secure setting to store the documents. Once scanning is complete, these files can be imported into our Document Imaging Software at Union County Department of Social Services (UCDSS), for easy access and is a requirement of the NC Fast State software initiative.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-512,205	0	0	0	0	0	0	-512,205
Grant Funding	-512,205	0	0	0	0	0	0	-512,205
Total REVENUE	-1,024,410	0	0	0	0	0	0	-1,024,410
EXPENDITURES								
Other Activities	1,024,410	0	0	0	0	0	0	1,024,410
Total EXPENDITURES	1,024,410	0	0	0	0	0	0	1,024,410
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Electronic Med Records (Health)

Project Detail

Human Services Automation and Record Management

Project Scope

Project provides for the implementation of an electronic health records management system including related consulting, equipment, and related expenses.

Project Justification and History

EHR regulations detail the manner in which health care providers qualify for Medicare and Medicaid HER "meaningful use" payments under The Health Information Technology for Economic and Clinical Health (HITECH) Act, which in turn is part of the American Recovery and Reinvestment Act of 2009 (ARRA). Providers who fall behind in achieving meaningful use will eventually receive lower reimbursement rates for treating Medicare patients. Medicaid has currently not implemented a rate reduction schedule but is anticipated to do so although as part of the Act, Medicaid will provide incentive payments for compliance.

EHRs pull together all of a patient's medical information into one central database within an organization. These systems provide up-to-date clinical information and decision support tools in "real time". These electronic records track team performance measures such as like infections, medical errors, and even prevention compliance. As with any HER, the identified strengths and vulnerabilities quickly stand out to be corrected.

Electronic records enable specialists who see a patient to work more as a team. Over time, most patients see several specialists in addition to their primary care physician. Until now, each doctor has kept his own chart for each patient, leading to duplicate tests and time wasted by answering the same questions from different doctors. By giving all of a patient's physicians' access to one unified patient file, an HER system wipes out longstanding bottlenecks in healthcare. There are no paper records that a patient's primary care doctor might forget to send to the specialist. The attending views everything up on his screen.

The Medicare HER Incentive Program provides incentive payments to eligible professionals, eligible hospitals, and critical access hospitals (CAHs) that demonstrate meaningful use of certified EHR technology.

Eligible professionals can receive up to \$44,000 over five years under the Medicare EHR Incentive Program. There's an additional incentive for eligible professionals who provide services in a Health Professional Shortage Area (HSPA). To get the maximum incentive payment, Medicare eligible professionals must begin participation by 2012.

The Program provides incentive payments to the eligible groups listed above as they adopt, implement, upgrade, or demonstrate meaningful use of certified HER technology in their first year of participation and demonstrate meaningful use for up to five remaining participation years.

Eligible professionals can receive up to \$63,750 over the six years that they choose to participate in the program. Prior to HER implementation, an agency must be prepared to involve all levels of agency staff. This involves training, hardware platforms that comply with the software requirements and training prior to and including support after implementation.

Many vendors currently offer products that will meet meaningful use but the price ranges, depending on the platforms and levels of detail needed by each clinic, are complex. Values assigned to each product, based on our findings, range from the low \$100K's to the mid \$200K's.

Since 2009 staff has progressed within our new state Medicaid billing system (Health Information System or HIS). The conversion has not been a smooth transition and has delayed much of our practice flow. It is the State's intention to have HIS "meaningful use" ready and eligible for us to receive incentive payments by the end of this fiscal year.

Due to the history and uncertainty of the product, it is our intention to keep the option open of purchasing an alternative system in the future.

Electronic Med Records (Health)

Project Detail

Human Services Automation and Record Management

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
<i>REVENUE</i>								
General Pay Go	-175,000	0	0	0	0	0	0	-175,000
Total REVENUE	-175,000	0	0	0	0	0	0	-175,000
<i>EXPENDITURES</i>								
Other Activities	175,000	0	0	0	0	0	0	175,000
Total EXPENDITURES	175,000	0	0	0	0	0	0	175,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Human Services Campus

Program Detail

Program Scope

Program provides for the replacement of the leased Human Services Facility through the construction of a Human Services Campus including parking, clinical space, administrative space, record storage, and related other necessary service areas.

Program Operating Budget Impact

The Human Services Campus will house the Department of Social Services and the Health Department which receive federal and state grant funding. It is anticipated that the cost of the Human Service Campus will be offset by federal and state funding. The amount of federal and state reimbursement is undetermined at this time.

Since 1998 the County has leased space for the Human Service Departments. The annual lease payment currently is \$469,667 annually. The lease will expire in FY 2017 and beginning in FY 2018 there will be a reduction in the operating budget for lease payments.

It is anticipated that the operating budget impact of the new facility would require additional utility and occupancy cost. The amount of these cost are undetermined at this time.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-42,150,000	0	0	0	0	0	0	-42,150,000
Total REVENUE	-42,150,000	0	0	0	0	0	0	-42,150,000
Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
PR059 Human Service Campus	42,150,000	0	0	0	0	0	0	42,150,000
Total EXPENDITURES	42,150,000	0	0	0	0	0	0	42,150,000

Human Service Campus

Project Detail

Human Services Campus

Project Scope

Based on the updated space needs study, a new Human Services Campus will require a site of approximately 20 acres, will initially be approximately 130,000 square feet in size, and will require staff parking of 400 spaces and separate client parking of 250 spaces. The projected facility will be in the category of a Class B office building and the site plan will allow space for 70,000 square feet of expansion. Between September and December 2012, Solutions for Local Government completed a detailed Architectural Space Program which defined specific spaces, quantities of offices and open office areas, square footages of each space and space adjacencies. The program identified a need for 112,016 net square feet to meet the County's projected ten (10) year need. To realistically estimate the gross square footage needed a multiplier of 30-40% was applied to the net square footage to account for interior circulation space, interior and exterior walls, mechanical and electrical spaces, elevators, and various structural and internal systems requirements. The resulting square footage estimates are in the range of 145,620 – 156,822.

Project Justification and History

Union County, since 1998, has leased space for the Health Department, Social Services, and Juvenile Services. With the unprecedented growth in population, the County has outgrown the existing space and needs to expand into a permanent facility that will meet the long-term needs. The current lease expires on June 30, 2017.

In mid-2010, Solutions for Local Government, Inc., completed a Space Needs Study of the Health Department, Social Services, Child Support Enforcement, Veterans Services, and Juvenile Services in anticipation of a capital project to replace the existing Union Village facility. With the economic downturn, this project was delayed. In anticipation of the revival of this project, the Study was updated in May, 2012 to reflect the changed service demands resulting from the downturn.

County staff has been reviewing options for housing these departments in a new building after expiration of the Union Village lease. If the County were to construct a new facility, there are several traditional and non-traditional methods of bidding and contracting that could be utilized. The most common traditional construction method, and that used by Union County on all but two major construction projects, is the standard design-bid-build model. Other construction methods that are currently allowed by general statute include: separate or multi-prime (bidding general, HVAC, electrical and plumbing separately), dual contracting (a combination of single and separate prime bidding) and construction management at risk.

In addition to these methods, Union County requested and received authorization from the Legislature by special act to utilize alternative construction methods for the construction of human services and law enforcement facilities. As authorized by Session Law 2012-59, Union County has five years within which to utilize the construction methods of (i) design-build, (ii) design-build-operate, or (iii) request for proposals and negotiation. Under the design-build method, the County would select a single firm both to design and build the project for a specified price.

As a corollary method of request for proposal and negotiation (item iii above), the 2012 special act specifically authorizes the County to enter into a build-to-suit capital lease for construction of a human services facility. Under this construction method, the County would enter into a lease with a private developer who would construct the building to the County's specifications. The developer would recoup its investment over time through lease payments by the County. The private developer would not be required to observe the standard procurement requirements of Article 3D (architectural/engineering services) or Article 8 (construction) of Chapter 143 of the General Statutes.

Human Service Campus

Project Detail

Human Services Campus

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
<i>REVENUE</i>								
General Pay Go	-42,150,000	0	0	0	0	0	0	-42,150,000
Total REVENUE	-42,150,000	0	0	0	0	0	0	-42,150,000
<i>EXPENDITURES</i>								
Construction	38,500,000	0	0	0	0	0	0	38,500,000
Other Activities	3,650,000	0	0	0	0	0	0	3,650,000
Total EXPENDITURES	42,150,000	0	0	0	0	0	0	42,150,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

IT Infrastructure and Efficiency Enhancements

Program Detail

Program Scope

Program provides for upgrades to the information technology infrastructure at County facilities. Upgrades include items such as network storage expansion, conversion to voice over internet protocol (VoIP) phone system, countywide document imaging, and other efficiency enhancements.

Program Operating Budget Impact

The operating budgeted expenditures associated with the IT program consist of software and hardware maintenance for Document Imaging at a cost of approximately \$115,400 per year. The software maintenance will be 20% of the purchase price on an annual basis or approximately \$110,000. The hardware maintenance for the Document Imaging project is approximately \$100 per scanner. The County anticipates having 54 scanners in place at the completion of the Document Imaging project, for a total cost of hardware maintenance at \$5,400.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-2,092,738	0	-820,000	0	0	0	0	-2,912,738
Utility Fund Balance	-327,500	0	0	0	0	0	0	-327,500
Total REVENUE	-2,420,238	0	-820,000	0	0	0	0	-3,240,238

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
IT002 Storage Area Network Replacement (SAN)	0	0	570,000	0	0	0	0	570,000
LIB002 Library - Radio Frequency Identification	0	0	250,000	0	0	0	0	250,000
PR048 IT Infrastructure	1,588,238	0	0	0	0	0	0	1,588,238
PR062 Phone System Upgrade	655,000	0	0	0	0	0	0	655,000
PR073 Reg Of Deeds Redaction	177,000	0	0	0	0	0	0	177,000
Total EXPENDITURES	2,420,238	0	820,000	0	0	0	0	3,240,238

Storage Area Network Replacement (SAN)

Project Detail

IT Infrastructure and Efficiency Enhancements

Project Scope

This project will involve the replacement of the County's current storage area network (SAN). The storage area network is the disk storage utilized by the County. This project will involve replacement of the two existing storage area network units. The first storage area network unit is used as the primary storage of data for the various departments within the County. The second storage area network unit is utilized for disaster recovery. Should the primary storage area network unit fail and lose all data, the storage area network unit located off-site will have the County's data available.

Project Justification and History

The assumption is the County will require more storage space and the equipment has exceeded its five year life span.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	0	0	-570,000	0	0	0	0	-570,000
Total REVENUE	0	0	-570,000	0	0	0	0	-570,000
EXPENDITURES								
TBA	0	0	570,000	0	0	0	0	570,000
Total EXPENDITURES	0	0	570,000	0	0	0	0	570,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Library - Radio Frequency Identification

Project Detail

IT Infrastructure and Efficiency Enhancements

Project Scope

Installing Radio Frequency Identification (RFID) in all 4 library locations.

Project Justification and History

RFID allows material barcodes to be read by an antenna instead of a scanner. By instituting RFID in all 4 of our library locations we will be offering a more efficient workflow by providing expedited service through self check-out and automated check-in which will decrease wait times. We can also manage our inventory and provide material tracking and security. This will allow materials to never be missing and patrons will be able to find the exact location of an item on our shelves, which will greatly enhance our customer service. It will improve loss prevention resulting from a patron's failure to check out materials, and we will easily be able to accommodate increases to circulation without needing more circulation staff.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
<i>REVENUE</i>								
General Pay Go	0	0	-250,000	0	0	0	0	-250,000
Total REVENUE	0	0	-250,000	0	0	0	0	-250,000
<i>EXPENDITURES</i>								
Other Activities	0	0	250,000	0	0	0	0	250,000
Total EXPENDITURES	0	0	250,000	0	0	0	0	250,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

IT Infrastructure

Project Detail

IT Infrastructure and Efficiency Enhancements

Project Scope

Project provides the needed consulting, software, hardware, and other project cost related to a Countywide document imaging program.

Project Justification and History

In March of 2008, Union County contracted with eVisory to perform an assessment of the document imaging (electronic content management) needs of the County. That document imaging assessment showed that DSS would benefit the most of any other department within the County, by implementing a document imaging system. The assessment then identified the other departments within the County that would recognize significant benefit. The findings of that document imaging assessment were shared with the Board of Commissioners at a Commissioners meeting in 2008.

In February of 2011, an RFP for document imaging was sent out that would satisfy the document imaging needs of DSS. The responses to that RFP were received by the County in March of 2011.

The State has been working on a new application for the DSS agencies in North Carolina. The new application is called NCFast. This new State application will centralize all DSS client information in one central repository located at the State. In conjunction with this new application, the State is looking for the Counties to implement a document imaging system that will capture the necessary supporting documentation of the client. The State is looking for the County provided document imaging system to tie in with the client information stored in the State system. The State was looking for several Counties to be a pilot for this new application. Union County was chosen to be one of the pilot Counties. The first pilot phase will be implemented in the Food Stamp group at DSS. This phase of NCFast will be installed at Union County in June of 2012.

To meet the requirement of providing document imaging for this new State application, the County in December of 2011, sent out another RFP that could satisfy the requirements of document imaging for DSS as well as other departments within the County. The responses to that RFP were received in January of 2012.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-1,588,238	0	0	0	0	0	0	-1,588,238
Total REVENUE	-1,588,238	0	0	0	0	0	0	-1,588,238
EXPENDITURES								
FF&E	1,412,787	0	0	0	0	0	0	1,412,787
Other Activities	175,451	0	0	0	0	0	0	175,451
Total EXPENDITURES	1,588,238	0	0	0	0	0	0	1,588,238
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Phone System Upgrade

Project Detail

IT Infrastructure and Efficiency Enhancements

Project Scope

Project provides for the upgrade of the County's existing phone system to a voice over internet protocol (VoIP). The upgrade includes needed project management, equipment, infrastructure upgrades, training, software, and other project related costs.

Project Justification and History

The present phone system provides dial tone, voicemail and auto attendant. The business requirements of the County are demanding more communications capabilities from the phone system. Departments are requesting ACD (automatic call distribution) capability, conference bridging, IVR (integrated voice response), and unified communications.

The vendor of the current phone system is Nortel, whom went bankrupt in January of 2009. Avaya acquired those assets and promised support for six years provided the customer keep the phone system upgraded. The County's systems have not been upgraded. As organizations replace legacy phone systems like the County has, parts will become more readily available; however, those qualified to install the parts are already in short supply.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-327,500	0	0	0	0	0	0	-327,500
Utility Fund Balance	-327,500	0	0	0	0	0	0	-327,500
Total REVENUE	-655,000	0	0	0	0	0	0	-655,000
EXPENDITURES								
Other Activities	655,000	0	0	0	0	0	0	655,000
Total EXPENDITURES	655,000	0	0	0	0	0	0	655,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Reg Of Deeds Redaction

Project Detail

IT Infrastructure and Efficiency Enhancements

Project Scope

Project provides for the purchase of software provided by Logan Sytems, Inc. The software provides Optical Character Recognition (OCR) technology. This software is to identify not only all apparent social security numbers and other personal information, but also pages that contain contextual clues for personal information.

Project Justification and History

Requested by Register of Deeds and recommended by the Board of County Commissioners.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-177,000	0	0	0	0	0	0	-177,000
Total REVENUE	-177,000	0	0	0	0	0	0	-177,000
EXPENDITURES								
Other Activities	177,000	0	0	0	0	0	0	177,000
Total EXPENDITURES	177,000	0	0	0	0	0	0	177,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Jail and Sheriff's Office Replacement and Expansion Program Program Detail

Program Scope

Program provides for the replacement and expansion of existing office and detention facilities including but not limited to medical space, office space, housing for female and juvenile detainees, housing for male detainees, related ancillary services, and other necessary services.

Program Operating Budget Impact

The Jail and Sheriff's Office Replacement program is primarily funded from the issuance of General Obligation Bonds of \$55,558,444 in FY 2018. The maximum annual debt service impact for this program will be \$5,604,000 and is projected to begin in FY 2019 and retire in FY 2038.

The operating budget impact of the new facility is undetermined at this time. The operating cost will become better defined as the project and operating plans are further developed. It is anticipated to have additional operating budget impact of new personnel, additional utility and occupancy cost.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 General Obligation Bonds	0	0	0	0	-3,061,384	-52,497,060	0	-55,558,444
General Pay Go	-1,425,129	0	0	0	0	0	0	-1,425,129
GO Bonds	-467,500	0	0	0	0	0	0	-467,500
Other Activities	-30,116	0	0	0	0	0	0	-30,116
Total REVENUE	-1,922,745	0	0	0	-3,061,384	-52,497,060	0	-57,481,189

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
PR019 Law Enforcement-Jail Expansion	1,922,745	0	0	0	3,061,384	52,497,060	0	57,481,189
Total EXPENDITURES	1,922,745	0	0	0	3,061,384	52,497,060	0	57,481,189

Law Enforcement-Jail Expansion

Project Detail

Jail and Sheriff's Office Replacement and Expansion Program

Project Scope

Program provides for the replacement and expansion of existing office and detention facilities including but not limited to medical space, office space, housing for female and juvenile detainees, housing for male detainees, related ancillary services, and other necessary services.

Project Justification and History

The current Union County Jail Facility opened in 1994 after the County settled a Federal Lawsuit regarding the conditions under which inmates were being housed. Over the last 18 years, the inmate population has grown steadily and beyond the capacities designed for the current facility. Population growth, coupled with aging of the structure has resulted in a facility that is inadequate to meet current inmate housing needs.

There are often more inmates than there are available beds and inmates are required to sleep on the floor. Several federal court cases (including in our U.S. 4th Circuit) have upheld that requiring inmates to sleep on the floor of a detention facility, for any reason, is cruel and unusual punishment and a violation of their Constitutional protections. Giving the history, the County risks additional lawsuits given current conditions.

Furthermore, insufficient housing for inmates puts the safety of our employees in jeopardy. Overcrowding and inadequate facilities both lend to a more stressful environment that could easily erupt into a dangerous situation for our officer. Depending on the shift, there could be as few officers working as eight (8) or ten (10) or as many as twenty-four (24). Considering that on a day in November of 2012 there were 299 inmates in custody, the inmate to officer ratio could be dangerously high.

Inmate population issues are not the only obstacles that make a new jail facility a necessity for the Sheriff's Office and the County. Over the past 18 years, the Union County Sheriff's Office has grown, not only in numbers, but in the way it conducts the County's business on a daily basis. Procedures within the jail have changed to meet the needs of a changing society and the process by which the jail operates is more involved. The current available space is not conducive to the daily operation of the jail. Many of the changes were made with the public's safety in mind, from ensuring the identity of a detainee to providing an accurate accounting of a person's criminal record so that an appropriate bond decision can be made.

Outside of the jail, changes in legislation have required operational modifications within the Sheriff's Office. Evidence and property storage laws dictate that we store more, longer. The current evidence room, a renovated training room, is not adequate conform to the mandated changes.

The ever-changing world of law enforcement technology is yet another issue the Office has encountered. As we try to keep up with the automation of many of our processes, our Information Technology needs and equipment are constantly growing and changing. Unfortunately, the space to accommodate this growth does not exist within our current structure. Overall, the Sheriff's Office is critically short of the office space needed to conduct business in an efficient and effective manner.

Changes in our service model, Federal and State Regulations and an increasing population have altered the way the Sheriff's Office must provide service to the citizens of Union County. This construction project will address and solve the deficiencies we encounter in our daily operations and will mitigate the constant liability exposure we face should a lawsuit occur. An expansion of this magnitude, while costly, will only increase in cost the longer it is set aside. Our constraints will only increase with time, making the expansion of the Sheriff's Office and Jail imperative to the continued quality of service we provide to the citizens of Union County.

Law Enforcement-Jail Expansion

Project Detail

Jail and Sheriff's Office Replacement and Expansion Program

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
<i>REVENUE</i>								
FY 2018 General Obligation Bonds	0	0	0	0	-3,061,384	-52,497,060	0	-55,558,444
General Pay Go	-1,425,129	0	0	0	0	0	0	-1,425,129
GO Bonds	-467,500	0	0	0	0	0	0	-467,500
Other Activities	-30,116	0	0	0	0	0	0	-30,116
Total REVENUE	-1,922,745	0	0	0	-3,061,384	-52,497,060	0	-57,481,189
<i>EXPENDITURES</i>								
Construction	0	0	0	0	0	42,247,060	0	42,247,060
Design and Engineering	1,540,908	0	0	0	0	0	0	1,540,908
FF&E	0	0	0	0	0	10,000,000	0	10,000,000
Preliminary Design & Planning	364,165	0	0	0	3,061,384	250,000	0	3,675,549
Site Work	17,672	0	0	0	0	0	0	17,672
Total EXPENDITURES	1,922,745	0	0	0	3,061,384	52,497,060	0	57,481,189
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Jesse Helms Park Development

Program Detail

Program Scope

Program provides for the development of Jesse Helms Park as outlined in the various phases of the Jesse Helms Park Master Plan. Development includes completing the parks' passive areas, trail systems, pavilions and shelters, park maintenance facilities, and other enhancements to improve the recreational offerings at the park.

Program Operating Budget Impact

The Jesse Helms Park Development Program is partially funded from the issuance of General Obligation Bonds of \$7,500,249 in FY 2018. The maximum annual debt service impact for this program will be \$777,500 and is projected to begin in FY 2019 and retire in FY 2038.

Once the development of Jesse Helms Park is complete it is anticipated that the operating budget impact will be \$180,839 on an annual basis. The additional operating budget expenditures approximate costs includes additional personnel and benefits of \$161,178, additional utility cost of \$7,855, and maintenance cost of \$3,000 on an annual basis.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 General Obligation Bonds	0	0	0	0	-519,858	-6,980,391	0	-7,500,249
General Pay Go	-1,519,442	0	0	0	0	0	0	-1,519,442
Total REVENUE	-1,519,442	0	0	0	-519,858	-6,980,391	0	-9,019,691

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
BW001 Jesse Helms Park Passive Area Phase II	0	0	0	0	0	2,774,060	0	2,774,060
BW002 Trail System (Pilot Project)	0	0	0	0	0	740,615	0	740,615
BW005 Jesse Helms Park Phase III	0	0	0	0	519,858	3,465,716	0	3,985,574
PR041 JHP Bridge	715,496	0	0	0	0	0	0	715,496
PR043 JHP Passive Area PhII (FY08 PARTF)	803,946	0	0	0	0	0	0	803,946
Total EXPENDITURES	1,519,442	0	0	0	519,858	6,980,391	0	9,019,691

Jesse Helms Park Passive Area Phase II

Project Detail

Jesse Helms Park Development

Project Scope

Project provides for Phase II Development of Jesse Helms Park Passive Area, which includes the needed infrastructure to address the needs of the community, walking, running, biking, and other passive recreational activities.

Project Justification and History

The recreational items slated for this project were identified in the Jesse Helms Park Master Plan. The construction documents for this project were completed in early fall 2011. At that point, the project was placed out for bid. The bids received were well above budget and the project was "tabled".

The Board of County Commissioners requested the Advisory Committee review the items in the project to see if they were still relevant based on the citizens' needs. At the March 2012 Advisory Committee, all elements of the project were reviewed, and the committee felt that the items were still needed and were highly sought recreational activities "statewide". They suggested that we move forward with the project when monies become available. At the January 2013 Advisory Committee Meeting, the committee selected this as their Number One Priority CIP Project due to the fact that the property is available, the construction documents are complete, and in order to meet the recreational needs of the public (walking, hiking, biking, picnicking).

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 General Obligation Bonds	0	0	0	0	0	-2,774,060	0	-2,774,060
Total REVENUE	0	0	0	0	0	-2,774,060	0	-2,774,060
EXPENDITURES								
Construction	0	0	0	0	0	2,774,060	0	2,774,060
Total EXPENDITURES	0	0	0	0	0	2,774,060	0	2,774,060
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Trail System (Pilot Project)

Project Detail

Jesse Helms Park Development

Project Scope

Project provides for the development of Pilot Trail Project between Jesse Helms Park and Wingate.

Project Justification and History

The 2006 Comprehensive Master Plan identified the need for greenways in Union County and encouraged a “pilot project” between Jesse Helms Park and the Town of Wingate. The Town of Wingate is currently working on a greenway that would end within close proximity to Jesse Helms Park located on Presson Road. This project would help link the end of Wingate’s greenway to Jesse Helms Park, continue through the park, and exit onto Summerlin Dairy Road. This trail could be used by both hikers and bikers; averting Highway 74.

At the January 2013 Advisory Committee Meeting, the committee was briefed by Wingate’s Town Manager on the Town’s initiatives with the Greenway Project. The Advisory Committee viewed this as a good opportunity to partner with the Town of Wingate, completing a loop for bikers to use; and that this project would be a good use of Jesse Helms Park Property. The Committee selected this as their Number Two CIP Project. This project should be considered when developing the Passive Area for Jesse Helms Park to include “grading requirements” for this project.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 General Obligation Bonds	0	0	0	0	0	-740,615	0	-740,615
Total REVENUE	0	0	0	0	0	-740,615	0	-740,615
EXPENDITURES								
Construction	0	0	0	0	0	740,615	0	740,615
Total EXPENDITURES	0	0	0	0	0	740,615	0	740,615
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Jesse Helms Park Phase III

Project Detail

Jesse Helms Park Development

Project Scope

Project provides for the Phase III Development of Jesse Helms Park, including construction of the remaining shelters, pavilion, and picnic sites; paving of a road system and bike trail from the entrance bridge to the soccer field; and completion of the pedestrian trail system and the maintenance facility.

Project Justification and History

This project will complete the development of the Passive Area at Jesse Helms Park per the 2006 Comprehensive Master Plan.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 General Obligation Bonds	0	0	0	0	-519,858	-3,465,716	0	-3,985,574
Total REVENUE	0	0	0	0	-519,858	-3,465,716	0	-3,985,574
EXPENDITURES								
Construction	0	0	0	0	0	3,465,716	0	3,465,716
Preliminary Design & Planning	0	0	0	0	519,858	0	0	519,858
Total EXPENDITURES	0	0	0	0	519,858	3,465,716	0	3,985,574
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

JHP Bridge

Project Detail

Jesse Helms Park Development

Project Scope

Construction of Jesse Helms Park Bridge.

Project Justification and History

Previously approved as a capital project.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-715,496	0	0	0	0	0	0	-715,496
Total REVENUE	-715,496	0	0	0	0	0	0	-715,496
EXPENDITURES								
Construction	715,496	0	0	0	0	0	0	715,496
Total EXPENDITURES	715,496	0	0	0	0	0	0	715,496
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

JHP Passive Area PhII (FY08 PARTF)

Project Detail

Jesse Helms Park Development

Project Scope

Develop the Jesse Helms Park Passive Area.

Project Justification and History

Previously approved as a capital project.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
<i>REVENUE</i>								
General Pay Go	-803,946	0	0	0	0	0	0	-803,946
Total REVENUE	-803,946	0	0	0	0	0	0	-803,946
<i>EXPENDITURES</i>								
Construction	803,946	0	0	0	0	0	0	803,946
Total EXPENDITURES	803,946	0	0	0	0	0	0	803,946
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Law Enforcement Facilities Expansion & Renovations

Program Detail

Program Scope

Program provides for the renovation and expansion of existing law enforcement offices and for the construction of climate controlled storage facilities for the County's special and tactical vehicles.

Program Operating Budget Impact

The Storage Garage for Special Response Vehicles will have an operating budget impact for additional utility cost. The cost for utilities are undetermined at this time.

The Sheriff's Office Renovations are not anticipated to have an operating budget impact. The renovations are improvements to the current facility.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-250,000	0	-50,000	-700,000	0	0	0	-1,000,000
Total REVENUE	-250,000	0	-50,000	-700,000	0	0	0	-1,000,000
Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
LE001 Sheriff's Office Renovations	0	0	50,000	700,000	0	0	0	750,000
PR065 Storage Garage-Spec Resp Vehicles	250,000	0	0	0	0	0	0	250,000
Total EXPENDITURES	250,000	0	50,000	700,000	0	0	0	1,000,000

Sheriff's Office Renovations

Project Detail

Law Enforcement Facilities Expansion & Renovations

Project Scope

Project provides for the full renovation of the Sheriff's offices to include evidence storage, administrative offices, training space, technology upgrades, and other needed upgrades.

Project Justification and History

The Union County Sheriff's Office facility is in need of a complete renovation. This renovation becomes even more important if the decision is made not to move on with a Jail Expansion. The current space is not adequate to meet the needs of an ever changing Law Enforcement environment. Changes in legislation have required operational modifications within the Sheriff's Office. Evidence and property storage laws dictate that we store more, longer. Our current evidence room, a renovated training room, is not an adequate conform to the mandated changes. The ever-changing world of law enforcement technology is yet another issue the Office has encountered. As we try to keep up with the automation of many of our processes, our Information Technology needs and equipment are constantly growing and changing. Unfortunately, the space to accommodate this growth does not exist within our current structure. Overall, the Sheriff's Office is critically short of the office space needed to conduct business in an efficient and effective manner. Offices originally built for one employee now house two or three. The interview rooms are not soundproof and suspects are able to hear the daily business going on in the hallways.

Changes in our service model, Federal and State Regulations and an increasing population have altered the way the Sheriff's Office must provide service to the citizens of Union County. This construction project will address the deficiencies we encounter in our daily operations. This project is essential for the Sheriff's Office to provide the quality of service that the citizens of Union County expect and deserve.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	0	0	-50,000	-700,000	0	0	0	-750,000
Total REVENUE	0	0	-50,000	-700,000	0	0	0	-750,000
EXPENDITURES								
Construction	0	0	0	500,000	0	0	0	500,000
Design and Engineering	0	0	50,000	0	0	0	0	50,000
FF&E	0	0	0	200,000	0	0	0	200,000
Total EXPENDITURES	0	0	50,000	700,000	0	0	0	750,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Storage Garage-Spec Resp Vehicles

Project Detail

Law Enforcement Facilities Expansion & Renovations

Project Scope

Project provides for the construction of an enclosed, climate controlled storage facility for the County's specialty and tactical vehicles.

Project Justification and History

The Union County Sheriff's Office has a number of specialty vehicles, used mainly for emergency response situations. Currently these vehicles are stored in a 3 sided structure that offers limited protection from the elements and limited security. The County's investment in these expensive vehicles would be better protected with a 4 sided, climate controlled structure. Not only would they be kept from the deterioration that nature causes, they would be more secure. These vehicles hold ammunition, weapons and other items that not only need to be secure; they are best stored in a climate controlled environment. Letting these items get too hot or cold can degrade the effectiveness.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
<i>REVENUE</i>								
General Pay Go	-250,000	0	0	0	0	0	0	-250,000
Total REVENUE	-250,000	0	0	0	0	0	0	-250,000
<i>EXPENDITURES</i>								
Construction	250,000	0	0	0	0	0	0	250,000
Total EXPENDITURES	250,000	0	0	0	0	0	0	250,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Library Expansion and Development

Program Detail

Program Scope

Program provides for the expansion of existing library space as well as the construction of additional libraries, including the needed design, construction, and related cost to expansion and new library spaces.

Program Operating Budget Impact

The Library Expansion and Development Program will be funded from the issuance of General Obligation Bonds of \$25,857,894 in FY 2018. The maximum annual debt service impact for this program will be \$2,619,000 and is projected to begin in FY 2019 and retire in FY 2038.

The South West Regional Library will require additional personnel and additional operating expenditures. The additional personnel for the new facility would require six full time employees at a cost of \$314,655 and four part time employees equivalent to 2.9 FTEs at \$95,423. Additional operating expenditures include office supplies of \$39,325 and occupancy cost of \$175,000 per year.

The Union West Regional Library expansion will require additional personnel and additional operating expenditures. The additional personnel for the expanded facility would be three full time employees at a cost of \$150,920 and four part time employees equivalent to 2.9 FTEs at \$95,423. The additional operating expenditures include office supplies of \$19,662 and occupancy cost of \$90,000.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Capital Reserve Fund	0	0	0	0	0	0	0	0
FY 2018 General Obligation Bonds	0	0	0	-1,182,744	-2,624,808	-22,050,342	0	-25,857,894
Total REVENUE	0	0	0	-1,182,744	-2,624,808	-22,050,342	0	-25,857,894

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
6117 South West Union Library	0	0	0	0	2,124,808	14,165,380	0	16,290,188
LIB001 Union West Regional Library Expansion	0	0	0	1,182,744	500,000	7,884,962	0	9,567,706
Total EXPENDITURES	0	0	0	1,182,744	2,624,808	22,050,342	0	25,857,894

South West Union Library

Project Detail

Library Expansion and Development

Project Scope

This project provides for the construction, furnishing, and opening day collection for a new 35,000-square-foot full-service regional library to serve the southwest side of the County.

Project Justification and History

One super-regional library to serve the entire southwestern quadrant of the County is part of the Library's master facilities plan and the recommendation of the Library Board of Trustees.

This 35,000-square-foot campus will be a full-service facility with 175 parking spaces; housing 87,500 pieces of material. It will also include public computers and wireless internet access, a community meeting room, a children's library with a story time room, a teen room to house collections and provide space for programs and activities, as well as comfortable seating; newspaper and magazine display shelving, study tables with seating, study rooms, and a conference room.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Capital Reserve Fund	0	0	0	0	0	0	0	0
FY 2018 General Obligation Bonds	0	0	0	0	-2,124,808	-14,165,380	0	-16,290,188
Total REVENUE	0	0	0	0	-2,124,808	-14,165,380	0	-16,290,188
EXPENDITURES								
Construction	0	0	0	0	0	14,165,380	0	14,165,380
Other Activities	0	0	0	0	0	0	0	0
Preliminary Design & Planning	0	0	0	0	2,124,808	0	0	2,124,808
Total EXPENDITURES	0	0	0	0	2,124,808	14,165,380	0	16,290,188
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Union West Regional Library Expansion

Project Detail

Library Expansion and Development

Project Scope

Expand the existing Union West Regional Library by approximately 18,000-square-foot.

Project Justification and History

Expansion of the Union West Regional Library to 30,000-square-foot is recommended in the Library Master Facilities Plan to accommodate current and future usage of the branch. Currently, as compared to the Main Library, the Union West Regional Library circulates ten percent more items, and conducts 149 percent more children's programs attended by 154 percent more children.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 General Obligation Bonds	0	0	0	-1,182,744	-500,000	-7,884,962	0	-9,567,706
Total REVENUE	0	0	0	-1,182,744	-500,000	-7,884,962	0	-9,567,706
EXPENDITURES								
Construction	0	0	0	0	0	7,884,962	0	7,884,962
Land Acquisition	0	0	0	0	500,000	0	0	500,000
Preliminary Design & Planning	0	0	0	1,182,744	0	0	0	1,182,744
Total EXPENDITURES	0	0	0	1,182,744	500,000	7,884,962	0	9,567,706
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Park Development and Renewal

Program Detail

Program Scope

Program provides for the maintenance and renewal of existing parks as well as for future park development planning. Activities include master planning, facility replacement, and other related projects.

Program Operating Budget Impact

The Cane Creek Park Renovation project has an approximate operating budget impact of \$83,790. The renovations at Cane Creek Park include a Nature Center that is anticipated to attract additional visitors to the park, generating additional revenue. The amount of additional revenue is undetermined at this time. In order to open the renovated facilities at the park one additional full time employee will be needed at a cost of \$54,020, approximate utility cost of \$7,980, and approximate maintenance cost of \$21,790 on an annual basis.

The Parks Comprehensive Master Plan project only provides for a study at this time and the operating impact is undetermined for Future Park Development. The operating cost will become better defined as the projects and operating plans are further developed.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-100,000	0	-604,500	-83,600	-800,000	0	0	-1,588,100
Total REVENUE	-100,000	0	-604,500	-83,600	-800,000	0	0	-1,588,100

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
BW006 Cane Creek Park Renovation Project (Partial)	0	0	0	0	800,000	0	0	800,000
BW007 Cane Creek Park Campstore	0	0	500,000	0	0	0	0	500,000
BW008 Parks & Recreation Paving	0	0	104,500	83,600	0	0	0	188,100
PR066 Parks & Rec Comp Master Plan	100,000	0	0	0	0	0	0	100,000
Total EXPENDITURES	100,000	0	604,500	83,600	800,000	0	0	1,588,100

Cane Creek Park Renovation Project (Partial)

Project Detail

Park Development and Renewal

Project Scope

Project provides for the replacement and expansion of various facilities.

Project Justification and History

The Campground Welcome Center has been designed but the project was tabled. The Campground Welcome Center will improve customer service during the camping registration process and replace the old, outdated Camp Store that has accessibility issues.

The expansion of the sewer system would add ten new full hook-up sites to the campground. This project will pave the remaining sixty-two campsite drives, making them more accessible and customer friendly.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
<i>REVENUE</i>								
General Pay Go	0	0	0	0	-800,000	0	0	-800,000
Total REVENUE	0	0	0	0	-800,000	0	0	-800,000
<i>EXPENDITURES</i>								
Construction	0	0	0	0	800,000	0	0	800,000
Total EXPENDITURES	0	0	0	0	800,000	0	0	800,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Cane Creek Park Campstore

Project Detail

Park Development and Renewal

Project Scope

Construction of a new Camp Store in the Cane Creek Park Campground.

Project Justification and History

This project would consist of building a new Camp Store for the Camping Area at Cane Creek Park. The existing Camp Store was built in 1982. While the existing building allows staff to provide basic services and provides a check-in point for guests to our facility, it is simply outdated and very small. Guests that have been to Cane Creek Park for many years expect enhancements to our services which a bigger Camp Store would allow. A larger facility, and the subsequent repurposing of the original building, would allow staff to expand services that are currently offered in our Campground to include a meeting room, larger variety of concession items, laundry facilities, a congregation area for guests, and provide an easier trouble free check in at their time of arrival. It could provide much-needed extra office space for Parks Staff, since the Operations Center has insufficient staff space. The current facility is inside the Family Camping Area; however, the proposed building would be constructed at the main entrance to the Campground. Construction at the main entrance will also allow staff to better control who comes and goes from the Campground. It should also be noted that this project was previously proposed and some A&E work has been performed to date; however, even though previous administration saw the need for this project, the money was pulled from our budget during the recession and the Reduction in Force for Union County. A more precise estimate is expected from John Dickerson by Feb. 13. The estimate below is from Craig Fox.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
<i>REVENUE</i>								
General Pay Go	0	0	-500,000	0	0	0	0	-500,000
Total REVENUE	0	0	-500,000	0	0	0	0	-500,000
<i>EXPENDITURES</i>								
Construction	0	0	500,000	0	0	0	0	500,000
Total EXPENDITURES	0	0	500,000	0	0	0	0	500,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Parks & Recreation Paving

Project Detail

Park Development and Renewal

Project Scope

Parks and Recreation paving needs.

Project Justification and History

These funds are for the repairs of deteriorating asphalt surfaces within the Parks and Recreation System. These projects include two major areas. (1) Cane Creek Park's Boat Ramp Area (\$95,000) which has not been resurfaced since the original installation (estimated at 1985 or before). (2) Fred Kirby Park's Park Lot (\$76,000) which has not been resurfaced since the park was established in the mid-90s. The worst of these projects is the Cane Creek Park's Boat Ramp which shows excessive signs of deterioration, to include the edges breaking away causing "drop-offs" in several locations. It's condition is becoming a safety issue. Projected costs are based on a local paver's estimate.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	0	0	-104,500	-83,600	0	0	0	-188,100
Total REVENUE	0	0	-104,500	-83,600	0	0	0	-188,100
EXPENDITURES								
Other Activities	0	0	104,500	83,600	0	0	0	188,100
Total EXPENDITURES	0	0	104,500	83,600	0	0	0	188,100
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Parks & Rec Comp Master Plan

Project Detail

Park Development and Renewal

Project Scope

Complete Comprehensive Master Plan for Union County Parks that will result in a long-term park development program.

Project Justification and History

The last update to Union County’s Parks and Recreation Comprehensive Master Plan was in 2006. The last master plans for Cane Creek Park and Jesse Helms Park were adopted in 2000 and 2004, respectively. Since that time several municipalities have created their own master plans for Parks and Recreation Departments located within the municipality.

It is recommended by State Agencies that master plans be updated every five years when possible. The scope of services for this master plan would be a comprehensive look at the citizen recreational needs within Union County, include an overlay of all proposed municipality master plans, and identification of shortfalls that may be provided by the County. This master plan will eliminate duplicity of effort between the municipalities and the County. Additionally, the scope of services will provide detailed budgetary information for proposed new facilities (in current dollars) based on the latest development costs of actual projects.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
<i>REVENUE</i>								
General Pay Go	-100,000	0	0	0	0	0	0	-100,000
Total REVENUE	-100,000	0	0	0	0	0	0	-100,000
<i>EXPENDITURES</i>								
Studies	100,000	0	0	0	0	0	0	100,000
Total EXPENDITURES	100,000	0	0	0	0	0	0	100,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

South Piedmont Community College

Program Detail

Program Scope

Capital program to provide for the ongoing improvement, renovation, renewal, replacement, and development of South Piedmont Community College. The program specifically provides for renovations to accommodate the Americans with Disabilities Act requirements, changing technology needs, facility safety and security concerns, facility improvements, and expansion to accommodate student growth at South Piedmont Community College.

Program Operating Budget Impact

These expenditures primarily represent routine improvements, renovations to existing school facilities, and expansion to SPCC. It is assumed that operating expenses will remain constant with current operating costs for the existing spaces. In cases where efficiencies are made with building renovations, or systems are replaced with those that are more energy-efficient, there may be annual energy savings.

The SPCC program is primarily funded from the issuance of General Obligation Bonds of \$31,130,730 in FY 2018. The maximum annual debt service impact for this program will be \$3,153,500 and is project to begin in FY 2019 and retire in FY 2038.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 General Obligation Bonds	0	0	0	0	0	-31,130,730	0	-31,130,730
General Pay Go	-1,750,000	0	0	0	0	0	0	-1,750,000
Total REVENUE	-1,750,000	0	0	0	0	-31,130,730	0	-32,880,730

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
ED003 SPCC Multi Purpose Building	0	0	0	0	0	22,704,651	0	22,704,651
ED004 SPCC Center For Technology And Allied Health	0	0	0	0	0	8,426,079	0	8,426,079
PR068 SPCC- Welding Lab	525,000	0	0	0	0	0	0	525,000
PR069 SPCC-Def Capital Maintenance	1,225,000	0	0	0	0	0	0	1,225,000
Total EXPENDITURES	1,750,000	0	0	0	0	31,130,730	0	32,880,730

SPCC Multi Purpose Building

Project Detail

South Piedmont Community College

Project Scope

Project provides for the construction of a new three-story, 72,500-square-foot "multi-purpose" building on the Monroe Campus to house the business office, student services, and bookstore, as well as providing additional classroom and lab space.

Project Justification and History

South Piedmont Community College is experiencing significant growth. To address the growth SPCC expended \$45,000 to develop a Facilities Master Plan, which was subsequently approved by the North Carolina Community College System and the State Board of Community Colleges.

The Union County Board of Commissioners approved \$800,000 in FY 2008 for design of the multi-purpose facility, which was as completed. Before construction could be bid, the project was terminated by the Board.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 General Obligation Bonds	0	0	0	0	0	-22,704,651	0	-22,704,651
Total REVENUE	0	0	0	0	0	-22,704,651	0	-22,704,651
EXPENDITURES								
Construction	0	0	0	0	0	22,704,651	0	22,704,651
Total EXPENDITURES	0	0	0	0	0	22,704,651	0	22,704,651
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

SPCC Center For Technology And Allied Health

Project Detail

South Piedmont Community College

Project Scope

Project provides renovations to a 49,000 square-foot building to accommodate vocational/trades and technological programs as well as health and safety programs that lead to an Associate of Science degree using certificate and diploma programs.

Project Justification and History

South Piedmont Community College is experiencing significant growth. To address the growth SPCC expended \$45,000 to develop a Facilities Master Plan, which was subsequently approved by the North Carolina Community College System and the State Board of Community Colleges.

The renovations of this facility will enhance SPCC's abilities to attract and re-train unemployed workers, and will provide pathways for UCPS students to enter the workforce with vocation training and requisite certificates and diplomas in a variety of fields and subjects.

The Union County Board of Commissioners approved the initial \$3,700,000 purchase and minor renovation of the Bealer Building. The completion of this renovation will alleviate the need for two additional companion buildings for the proposed Multi-Purpose Building (ED003).

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 General Obligation Bonds	0	0	0	0	0	-8,426,079	0	-8,426,079
Total REVENUE	0	0	0	0	0	-8,426,079	0	-8,426,079
EXPENDITURES								
Construction	0	0	0	0	0	8,426,079	0	8,426,079
Total EXPENDITURES	0	0	0	0	0	8,426,079	0	8,426,079
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

SPCC- Welding Lab

Project Detail

South Piedmont Community College

Project Scope

Project provides for a welding lab at the SPCC Center for Technology and Health Education.

Project Justification and History

Requested by SPCC and recommended by the Board of County Commissioners.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-525,000	0	0	0	0	0	0	-525,000
Total REVENUE	-525,000	0	0	0	0	0	0	-525,000
EXPENDITURES								
Other Activities	525,000	0	0	0	0	0	0	525,000
Total EXPENDITURES	525,000	0	0	0	0	0	0	525,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

SPCC-Def Capital Maintenance

Project Detail

South Piedmont Community College

Project Scope

Project provides for ongoing/deferred capital maintenance needs at SPCC.

Project Justification and History

Requested by SPCC and recommended by the Board of County Commissioners.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
General Pay Go	-1,225,000	0	0	0	0	0	0	-1,225,000
Total REVENUE	-1,225,000	0	0	0	0	0	0	-1,225,000
EXPENDITURES								
Other Activities	1,225,000	0	0	0	0	0	0	1,225,000
Total EXPENDITURES	1,225,000	0	0	0	0	0	0	1,225,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Tax Assessment and Administration Software Replacement Program Detail

Program Scope

Program provides for the upgrade or replacement of the Tax Assessor's Software used for Property Tax Records, Billings, and Collections

Program Operating Budget Impact

Upgraded or replacement software for the Tax Assessor's Office will require an annual software maintenance fee. The operating budget impact for the software maintenance fee will become better defined as the project is further developed. The software will be funding through issuance of Installment Financing in the amount of \$2,400,000. The maximum annual debt service impact will be \$466,714 beginning in FY 2018 and will retire in FY 2024.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Installment Financing	0	0	-2,400,000	0	0	0	0	-2,400,000
Total REVENUE	0	0	-2,400,000	0	0	0	0	-2,400,000
Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
TX001 Tax Software	0	0	2,400,000	0	0	0	0	2,400,000
Total EXPENDITURES	0	0	2,400,000	0	0	0	0	2,400,000

Tax Software

Project Detail

Tax Assessment and Administration Software Replacement

Project Scope

Project provides for the needed consulting, software, and hardware to upgrade or replace the County's existing assessment and billing software.

Project Justification and History

The current Manatron System was installed in FY 2002. Since that time there have been numerous functional improvements as well as additional vendors providing the needed software. Because this software bills more than \$150,000,000 annually reliable, accurate software that ensures the accuracy of the assessment and billing process is critical to protect the County.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
<i>REVENUE</i>								
Installment Financing	0	0	-2,400,000	0	0	0	0	-2,400,000
Total REVENUE	0	0	-2,400,000	0	0	0	0	-2,400,000
<i>EXPENDITURES</i>								
Other Activities	0	0	2,400,000	0	0	0	0	2,400,000
Total EXPENDITURES	0	0	2,400,000	0	0	0	0	2,400,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Public Works Capital Program

The six-year Public Works Capital Program (PWCP) is largely based on the Comprehensive Water & Wastewater Master Plan completed and approved by the Board of County Commissioners in December of 2011.

The Comprehensive Plan provides a twenty-year projection of system needs based on current population growth trends (2.4 percent during the planning window) population distribution trends, and historical demand data, among a number of other factors.

The PWCP addresses the water and wastewater system needs for improvement, expansion, maintenance, rehabilitation, and renewal. The six-year plan strives to strike a balance between the system expansion needs and the ongoing maintenance needs, while ensuring the capacity and affordability of the system.

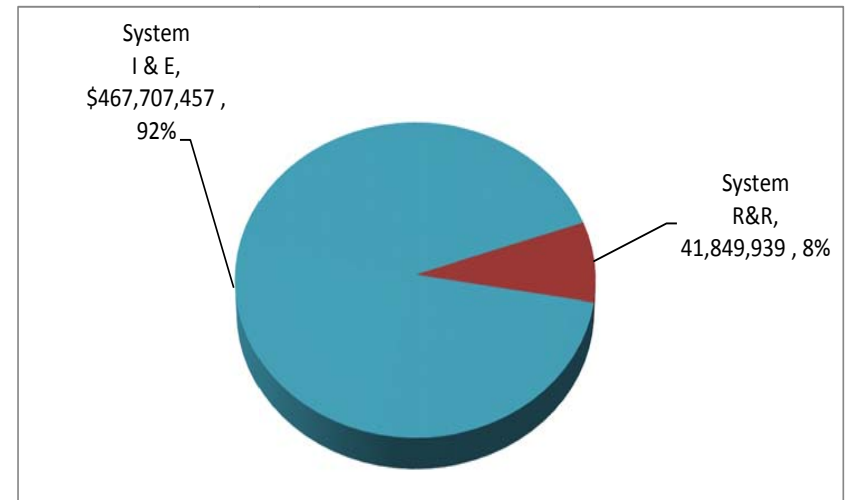
Program Highlights

The adopted Public Works Capital Program consists of twenty programs, made up of sixty-one different projects. The programs focus on system improvements and expansion (System I&E), and system rehabilitation and renewal (System R&R).

System improvements and expansion projects focus on meeting the future capacity needs of the system based on the current system modeling. By 2020, the maximum day water demand is anticipated to grow to 27.8 million gallons daily and maximum monthly average wastewater flow to 14.9 million gallons daily. The adopted \$467,707,457 System I&E Program is necessary to meet these needs and anticipated future demands.

Rehabilitation and renewal programs are the ongoing infrastructure maintenance projects that ensure the sustainability of the existing infrastructure. The \$41,849,939 System R&R program is necessary to provide for the system needs and reflects an average annual investment of \$4.5 million during the six-year plan.

Fiscal Year	System I & E	System R&R	Total
Funded-To-Date	\$ 106,268,463	14,514,939	120,783,402
FY 2016 Adopted	42,022,986	3,652,000	45,674,986
FY 2017 Planned	34,957,008	4,584,000	39,541,008
FY 2018 Planned	31,996,000	4,481,000	36,477,000
FY 2019 Planned	141,911,000	5,573,000	147,484,000
FY 2020 Planned	24,156,000	5,325,000	29,481,000
FY 2021 Planned	86,396,000	3,720,000	90,116,000
Total	\$ 467,707,457	41,849,939	509,557,396



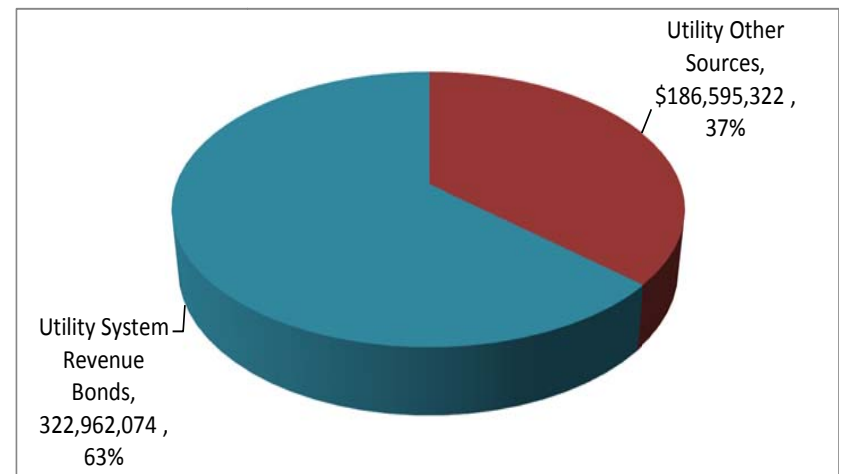
The following chart shows the breakdown of the programs included in the System Improvements and Expansion as well as the System Rehabilitation and Renewal.



Funding Strategy

PWCP Six-Year Program	Program Total
System Improvements and Expansion Programs	
762 Zone Improvements	\$ 4,960,700
853 South Zone Improvements	1,711,000
853 West Zone Improvements	27,815,000
935 Zone Improvements	418,000
Crooked Creek Basin Improvements	38,068,800
CRWTP Improvements	43,740,814
Developer Funded Projects	38,412,000
Eastside Wastewater Improvements	51,759,957
New 880 Pressure Zone	10,900,245
New Lake Twitty Sewer Shed	5,569,000
Short Line Extensions	5,587,000
Town Center Sewer Development	2,107,440
Twelve Mile Creek WWTP System Improvements	63,937,615
UCPW Buildings and Improvements	10,915,376
Yadkin Water Supply	161,804,510
Total System I & E Programs	\$ 467,707,457
System Rehabilitation and Renewal	
Wastewater Pump Station Improvements	\$ 6,214,000
Wastewater Rehabilitation and Replacement	15,702,960
Water & Wastewater Master Plan	681,000
Water Rehabilitation and Replacement	17,577,979
Water Tank Rehabilitation	1,674,000
Total System R & R Programs	\$ 41,849,939
Total PWCP Six Year Program	\$ 509,557,396

Fiscal Year	Utility Other Sources	Utility System Revenue Bonds	Total
Funded-To-Date	\$ 69,668,322	51,115,080	120,783,402
FY 2016 Adopted	4,488,000	41,186,986	45,674,986
FY 2017 Planned	7,409,000	32,132,008	39,541,008
FY 2018 Planned	5,992,000	30,485,000	36,477,000
FY 2019 Planned	11,099,000	136,385,000	147,484,000
FY 2020 Planned	7,140,000	22,341,000	29,481,000
FY 2021 Planned	80,799,000	9,317,000	90,116,000
Total	\$ 186,595,322	322,962,074	509,557,396



The adopted PWCP is funded through several different sources. The primary source of funding, 63 percent will come through the issuance of Utility System Revenue Bonds. The adopted PWCP finance plan includes the issuance of 2016 Revenue Bonds at \$76.8 million, 2018 Revenue Bonds at \$83.1 million, and 2019 Revenue Bonds at \$163 million, totaling \$322,962,074 of planned total new debt for the system.

The anticipated new debt will be reflected in the future rate modeling. Based on current projections and



estimated debt issuance, the increased debt service by the end of the program will grow to a maximum of \$31.2 million annually.

Public Works Debt Amortization Schedule			
Fiscal Year	Principal	Interest	Total
Current Debt Svc.	\$ 3,940,126	2,068,097	6,008,223
FY 2016 Adopted	3,968,810	1,925,567	5,894,377
FY 2017 Planned	4,038,697	5,644,564	9,683,260
FY 2018 Planned	6,435,000	5,511,072	11,946,072
FY 2019 Planned	6,675,000	10,603,172	17,278,172
FY 2020 Planned	10,445,000	17,380,811	27,825,811
FY 2021 Planned	14,290,000	16,914,242	31,204,242
Total	\$ 49,792,632	60,047,526	109,840,158

Revenue bond debt is used for system improvements and expansion projects. The principle is to match the users, meaning future customers, to the future system costs. The system improvements and enhancements provide for future capacity, so rate payers in the future, through annual debt service, will incur those costs.

In addition to the anticipated new debt, the PWCP includes estimated funding from grants, developer funding, and pay-as-you-go (PayGo) funding from current revenues.

Other Funding Sources	Program Total
Developer Funding	\$ 40,276,654
Grant Funding	1,961,300
Utility PayGo	144,357,368
Total Funding	\$ 186,595,322

The PayGo funding, which comprises 77 percent of the other sources, comes through connection fees from new customers, user fees charged to customers, and capital fund balance.

Pay Go Funding from Water and Sewer Operations	
Fiscal Year	PayGo
Funded-To-Date	\$ 65,842,368
FY 2016 Adopted	4,488,000
FY 2017 Planned	7,409,000
FY 2018 Planned	5,992,000
FY 2019 Planned	11,099,000
FY 2020 Planned	7,140,000
FY 2021 Planned	42,387,000
Total	\$ 144,357,368

The PayGo funding is primarily programmed for the ongoing system rehabilitation and renewal projects. The principle approach, much like debt, is to match the current users of the infrastructure to the current capital needs. Those using the system today, pay for the proactive maintenance.

The anticipated developer funding projects are a result of the newly adopted Union County Line Extension Policy. This funding has a direct relationship to the Developer funded projects, such that the expenditures in the projects are largely driven by the revenues. This project will be amended as needed to reflect actual developer contributions to the program.

The funding of the Water and Wastewater Capital Program will be modified in the future to reflect the capacity of the fund and future rate plans. This funding plan will provide the basis for the revised long-term utility rate plan. During discussions of the rate plan, the scheduling and timing of the new debt, as well as the projects, will be reviewed to ensure the long-term sustainability of the utility while considering affordability and payer mix.

Operating Budget Impact

As discussed in the funding strategy, the primary operating budget impacts will come through additional debt service.

Additional analysis will be conducted to refine the operating budget impacts of the improvement and expansion projects as the scopes and operating plans become better defined.

Each Program Detail Report has a complete discussion of the operating budget impact. The following chart shows the summary of the anticipated operating budget impact by service area.



Public Works Capital Program Operating Budget Impact FY 2016-2021

FY 2016 FY 2017 FY 2018 FY 2019 FY 2020 FY 2021 Total

System Improvements and Expansion Programs

762 Zone Improvements	\$ -	\$ -	\$ 2,000	\$ 273,500	\$ 278,500	\$ 273,000	\$ 827,000
853 South Zone Improvements	-	55,000.00	54,000.00	53,000.00	52,000.00	61,000.00	275,000.00
853 West Zone Improvements	-	-	-	2,155,000	2,154,500	2,162,000	6,471,500
935 Zone Improvements	-	-	-	-	-	-	-
Crooked Creek Basin Improvements	-	1,379,000	1,383,000	2,250,000	2,255,000	2,247,500	9,514,500
CRWTP Improvements	-	2,990,000	2,983,500	2,984,500	2,982,500	2,987,500	14,928,000
Developer Funded Projects	-	-	-	-	-	-	-
Eastside Wastewater Improvement:	-	-	-	-	-	-	-
New 880 Pressure Zone	-	639,000	637,000	634,500	641,500	637,500	3,189,500
New Lake Twitty Sewer Shed	-	-	-	-	459,000	460,500	919,500
Short Line Extensions	-	-	-	-	-	-	-
Town Center Sewer Development	-	-	-	-	-	-	-
Twelve Mile Creek WWTP System Improvements	-	551,000	550,500	4,004,000	4,007,500	4,007,000	13,120,000
UCPW Buildings and Improvements	-	671,500	679,000	675,500	671,500	677,000	3,374,500
Yadkin Water Supply	-	-	-	-	12,703,000	12,703,500	25,406,500
Total System I & E Programs	-	6,285,500	6,289,000	13,030,000	26,205,000	26,216,500	78,026,000

System Rehabilitation and Renewal Programs

Improvements	-	-	-	-	-	-	-
Wastewater Rehabilitation and Replacement	-	-	-	-	-	-	-
Water & Wastewater Master Plan	-	-	-	-	-	-	-
Water Rehabilitation and Replacement	-	-	-	-	-	-	-
Water Tank Rehabilitation	-	-	-	-	-	-	-
Total System R & R Programs	-	-	-	-	-	-	-
Total PWCP Six Year Program	\$ -	\$ 6,285,500	\$ 6,289,000	\$ 13,030,000	\$ 26,205,000	\$ 26,216,500	\$ 78,026,000



Public Works Capital Program

Section Summary

Resource Summary

Summary	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Developer Funded	-1,864,654	0	0	0	0	0	-38,412,000	-40,276,654
FY 2016 Water and Wastewater Rev Bonds	-49,448,280	-6,718,986	-5,953,008	-14,511,000	0	0	-151,000	-76,782,274
FY 2018 Water and Wastewater Rev Bonds	-1,666,800	-34,468,000	-20,579,000	-4,474,000	-17,450,000	-580,000	-3,958,000	-83,175,800
FY 2019 Water and Wastewater Rev Bonds	0	0	-5,600,000	-11,500,000	-118,935,000	-21,761,000	-5,208,000	-163,004,000
Grant Funding	-1,961,300	0	0	0	0	0	0	-1,961,300
Utility Pay Go	-65,842,368	-4,488,000	-7,409,000	-5,992,000	-11,099,000	-7,140,000	-42,387,000	-144,357,368
Total REVENUE	-120,783,402	-45,674,986	-39,541,008	-36,477,000	-147,484,000	-29,481,000	-90,116,000	-509,557,396

Programs	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
Water & Sewer								
762 Zone Improvements	2,093,700	374,000	2,493,000	0	0	0	0	4,960,700
853 South Zone Improvements	412,000	0	0	0	0	0	1,299,000	1,711,000
853 West Zone Improvements	1,695,000	0	15,936,000	817,000	9,367,000	0	0	27,815,000
935 Zone Improvements	0	0	27,000	391,000	0	0	0	418,000
Crooked Creek Basin Improvements	11,349,800	3,313,000	7,113,000	5,633,000	4,935,000	580,000	5,145,000	38,068,800
CRWTP Improvements	25,950,820	3,719,986	990,008	13,080,000	0	0	0	43,740,814
Developer Funded Projects	0	0	0	0	0	0	38,412,000	38,412,000
Eastside Wastewater Improvements	14,837,957	0	0	0	0	1,210,000	35,712,000	51,759,957
New 880 Pressure Zone	10,900,245	0	0	0	0	0	0	10,900,245
New Lake Twitty Sewer Shed	0	0	0	0	0	361,000	5,208,000	5,569,000
Short Line Extensions	2,091,000	545,000	560,000	575,000	591,000	605,000	620,000	5,587,000
Town Center Sewer Development	2,007,440	100,000	0	0	0	0	0	2,107,440
Twelve Mile Creek WWTP System Improvements	19,645,615	33,971,000	2,238,000	0	8,083,000	0	0	63,937,615

Public Works Capital Program

Section Summary

Resource Summary

Programs	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
Water & Sewer								
UCPW Buildings & Improvements	10,915,376	0	0	0	0	0	0	10,915,376
Wastewater Pump Station Improvements	2,215,000	327,000	784,000	231,000	1,562,000	847,000	248,000	6,214,000
Wastewater Rehabilitation and Replacement	5,623,960	1,499,000	1,732,000	1,780,000	1,828,000	1,876,000	1,364,000	15,702,960
Water & Wastewater Master Planning	318,000	0	0	0	0	363,000	0	681,000
Water Rehabilitation and Replacement	5,400,979	1,826,000	2,068,000	2,125,000	2,183,000	2,239,000	1,736,000	17,577,979
Water Tank Rehabilitation	957,000	0	0	345,000	0	0	372,000	1,674,000
Yadkin River Water Supply	4,369,510	0	5,600,000	11,500,000	118,935,000	21,400,000	0	161,804,510
Total Water & Sewer	120,783,402	45,674,986	39,541,008	36,477,000	147,484,000	29,481,000	90,116,000	509,557,396

762 Zone Improvements

Program Detail

Program Scope

Program provides for system improvements as outlined in detail in the Comprehensive Water & Wastewater Master Plan. These improvements include the installation of water mains, pump modifications, elevated storage tanks, and other necessary improvements to provides sufficient water supply and fire flow in the area.

Program Operating Budget Impact

The project within the 762 Zone Improvements program that will have the most significant operating budget impact is the construction of the new Marshville Tank. The new tank is funded from issuance of Revenue Bonds of \$3,279,000 in FY 2018. The maximum annual debt service impact for this program will be \$279,500 beginning in FY 2019 and will retire in twenty years. The new tank should have some minor operating costs (less than \$2,000 per year) related to utilities and inspections. There will also be more significant expenses related to repainting the tank every 8 to 15 years. There are no operating budget impacts related to other projects in this program as they are all "in the ground" line work.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 Water and Wastewater Rev Bonds	-412,000	-374,000	-2,493,000	0	0	0	0	-3,279,000
Utility Pay Go	-1,681,700	0	0	0	0	0	0	-1,681,700
Total REVENUE	-2,093,700	-374,000	-2,493,000	0	0	0	0	-4,960,700

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
MW015 762 Zone Trasnmission Main (Bypass)	1,681,700	0	0	0	0	0	0	1,681,700
WT059 762 Zone Elevated Tank	412,000	374,000	2,493,000	0	0	0	0	3,279,000
Total EXPENDITURES	2,093,700	374,000	2,493,000	0	0	0	0	4,960,700

762 Zone Transmission Main (Bypass)

Project Detail

762 Zone Improvements

Project Scope

Project provides for increased Anson County system capacity by making improvements to system hydraulics including but not limited to the installation of additional transmission mains and other necessary improvements.

Project Justification and History

Contingent on a new 6.0 MGD water supply contract from Anson County, various improvements will be needed within the Anson County Service Area to increase system capacity and improve system hydraulics. To hydraulically provide the 6 MGD, installation of 8,000 LF of a 16-inch Transmission Main will be necessary.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-1,681,700	0	0	0	0	0	0	-1,681,700
Total REVENUE	-1,681,700	0	0	0	0	0	0	-1,681,700
EXPENDITURES								
Construction	1,482,000	0	0	0	0	0	0	1,482,000
Design and Engineering	199,700	0	0	0	0	0	0	199,700
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	1,681,700	0	0	0	0	0	0	1,681,700
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

762 Zone Elevated Tank

Project Detail

762 Zone Improvements

Project Scope

Project provides for improvements within the Anson County Service Area including 1.0 MG Elevated Storage Tank and other necessary improvements.

Project Justification and History

Contingent on a new 6.0 MGD water supply contract from Anson County, various improvements will be needed within the Anson County Service Area to increase system capacity and improve system hydraulics. A new 1.0 MG Elevated Storage Tank will be required in the Marshville Area to provide water pressure and storage.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 Water and Wastewater Rev Bonds	-412,000	-374,000	-2,493,000	0	0	0	0	-3,279,000
Total REVENUE	-412,000	-374,000	-2,493,000	0	0	0	0	-3,279,000
EXPENDITURES								
Construction	0	0	2,493,000	0	0	0	0	2,493,000
Design and Engineering	0	374,000	0	0	0	0	0	374,000
Land Acquisition	412,000	0	0	0	0	0	0	412,000
Total EXPENDITURES	412,000	374,000	2,493,000	0	0	0	0	3,279,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

853 South Zone Improvements

Program Detail

Program Scope

Program provides for system improvements as outlined in detail in the Comprehensive Water & Wastewater Master Plan. These improvements include the installation of pressure reducing valves, 12-inch water mains, elevated storage tanks, and other necessary improvements to provide sufficient water supply and fire flow in the area.

Program Operating Budget Impact

The 853 South Zone Improvements program consists of two projects: 853 South Zone Tank and 853 Zone Transmission Main Improvements. Currently there has only been funding appropriated for the land purchase related to the 853 Tank. Design, engineering and construction expenses are not budgeted for in the current planning period window; therefore, it is difficult to determine any operating budget impact at this time. There are no operating budget impacts related to the transmission main as this is all "in the ground" line work.

The 853 South Zone Improvements is funded from the issuance of Revenue Bonds of \$563,000 in FY 2016. The maximum annual debt service impact for this program will be \$63,000 beginning in FY 2017 and will retire in twenty years.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total	
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021		
REVENUE									
FY 2016 Water and Wastewater Rev Bonds	-412,000	0	0	0	0	0	0	-151,000	-563,000
Utility Pay Go	0	0	0	0	0	0	0	-1,148,000	-1,148,000
Total REVENUE	-412,000	0	0	0	0	0	0	-1,299,000	-1,711,000

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total	
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021		
EXPENDITURES									
WT057 853 South Zone Tank	412,000	0	0	0	0	0	0	151,000	563,000
WT058 853 Zone Transmission Main Improvem	0	0	0	0	0	0	0	1,148,000	1,148,000
Total EXPENDITURES	412,000	0	0	0	0	0	0	1,299,000	1,711,000

853 South Zone Tank

Project Detail

853 South Zone Improvements

Project Scope

Project provides for the construction of a .75 million gallon elevated storage tank and related design, construction, and related improvements.

Project Justification and History

The 2011 Master Plan identified various improvements needed within the 853 South Zone Service Area to increase fire flow and system capacity.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total	
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021		
REVENUE									
FY 2016 Water and Wastewater Rev Bonds	-412,000	0	0	0	0	0	0	-151,000	-563,000
Total REVENUE	-412,000	0	0	0	0	0	0	-151,000	-563,000
EXPENDITURES									
Construction	0	0	0	0	0	0	0	151,000	151,000
Design and Engineering	0	0	0	0	0	0	0	0	0
Land Acquisition	412,000	0	0	0	0	0	0	0	412,000
Total EXPENDITURES	412,000	0	0	0	0	0	0	151,000	563,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0	0

853 Zone Transmission Main Improvem

Project Detail

853 South Zone Improvements

Project Scope

Project provides for the installation of the 853 South Zone Transmission Main - 38,000 LF of 16" and 38,000 LF of 12" transmission main.

Project Justification and History

The 2011 Master Plan identified various improvements needed within the 853 South Zone Service Area to increase system hydraulics and capacity. This transmission main will provide the needed flow to the new 853 South Zone Elevated Tank.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total	
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021		
REVENUE									
Utility Pay Go	0	0	0	0	0	0	0	-1,148,000	-1,148,000
Total REVENUE	0	0	0	0	0	0	0	-1,148,000	-1,148,000
EXPENDITURES									
Construction	0	0	0	0	0	0	0	0	0
Design and Engineering	0	0	0	0	0	0	0	1,148,000	1,148,000
Land Acquisition	0	0	0	0	0	0	0	0	0
Total EXPENDITURES	0	0	0	0	0	0	0	1,148,000	1,148,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0	0

853 West Zone Improvements

Program Detail

Program Scope

Program provides for system improvements as outlined in detail in the Comprehensive Water & Wastewater Master Plan. These improvements include the installation of 16-inch and 36-inch water mains, pump modifications, elevated storage tanks, and other necessary improvements to provide sufficient water supply and fire flow in the area.

Program Operating Budget Impact

The 853 West Zone Improvements program consists of two projects: Indian Trail Additional Tank #1 & Watkins BPS Improvements and 853 West Zone Transmission Main. The new tank should have some minor operating costs (less than \$2,000 per year) related to utilities and inspections. There will also be more significant expenses related to repainting the tank every 8 to 15 years. There are no operating budget impacts related to the transmission main as this is all "in the ground" line work.

The 853 West Zone Improvements is funded from the issuance of Revenue Bonds of \$26,532,000 in FY 2018. The maximum annual debt service impact for this program will be \$2,163,000 beginning in FY 2019 and will retire in twenty years.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 Water and Wastewater Rev Bonds	-412,000	0	-15,936,000	-817,000	-9,367,000	0	0	-26,532,000
Utility Pay Go	-1,283,000	0	0	0	0	0	0	-1,283,000
Total REVENUE	-1,695,000	0	-15,936,000	-817,000	-9,367,000	0	0	-27,815,000
Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
WT060 IT Addt Tank 1/Watkins BPS Imp	412,000	0	0	391,000	4,256,000	0	0	5,059,000
WT061 853 West Zone Transmission Main	1,283,000	0	15,936,000	426,000	5,111,000	0	0	22,756,000
Total EXPENDITURES	1,695,000	0	15,936,000	817,000	9,367,000	0	0	27,815,000

IT Addt Tank 1/Watkins BPS Imp

Project Detail

853 West Zone Improvements

Project Scope

Project provides for the Indian Trail Additional Tank #1 - 1.25 to 2.0 MGD Elevated Storage, Watkins Booster Pump Station Pump Modifications - Modify Pumps with new impellers, and other necessary improvements.

Project Justification and History

The 2011 Master Plan identified various improvements needed within the 853 West Zone Service Area to increase fire flow and system capacity. Included in these improvements is the construction of a new 1.25 MG to 2.0 MG elevated Storage Tank to be located in the Town of Indian Trail.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 Water and Wastewater Rev Bonds	-412,000	0	0	-391,000	-4,256,000	0	0	-5,059,000
Total REVENUE	-412,000	0	0	-391,000	-4,256,000	0	0	-5,059,000
EXPENDITURES								
Construction	0	0	0	0	4,256,000	0	0	4,256,000
Design and Engineering	0	0	0	391,000	0	0	0	391,000
Land Acquisition	412,000	0	0	0	0	0	0	412,000
Total EXPENDITURES	412,000	0	0	391,000	4,256,000	0	0	5,059,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

853 West Zone Transmission Main

Project Detail

853 West Zone Improvements

Project Scope

Project provides for the installation of the 853 West Zone Transmission Main - 14,000 LF of 36" Main; 853 West Zone Transmission Main - 18,000 LF of 16" Main; 853 West Zone Transmission Main - 27,000 LF of 16" Main; 853 West Zone Transmission Main - 17,00

Project Justification and History

The 2011 Master Plan identified various improvements needed within the 853 West Zone Service Area to increase system hydraulics and capacity. Included in these improvements are modifications to the Watkins Booster Pump Station Pump Modifications and installation of 14,000 LF of 36" main and 71,000 LF of 16" main to improve distribution within the Service Area.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 Water and Wastewater Rev Bonds	0	0	-15,936,000	-426,000	-5,111,000	0	0	-21,473,000
Utility Pay Go	-1,283,000	0	0	0	0	0	0	-1,283,000
Total REVENUE	-1,283,000	0	-15,936,000	-426,000	-5,111,000	0	0	-22,756,000
EXPENDITURES								
Construction	0	0	15,936,000	0	5,111,000	0	0	21,047,000
Design and Engineering	1,283,000	0	0	426,000	0	0	0	1,709,000
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	1,283,000	0	15,936,000	426,000	5,111,000	0	0	22,756,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

935 Zone Improvements

Program Detail

Program Scope

Program provides for system improvements as outlined in detail in the Comprehensive Water & Wastewater Master Plan. These improvements include the installation booster pumping station, storage tanks, and other necessary improvements to provides sufficient water supply and fire flow in the area.

Program Operating Budget Impact

The New Stallings BPS Expansion will have a minor operating budget impact mostly related to a small increase in utility costs.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	0	0	-27,000	-391,000	0	0	0	-418,000
Total REVENUE	0	0	-27,000	-391,000	0	0	0	-418,000
Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
UT008 New Stallings BPS Expansion	0	0	27,000	391,000	0	0	0	418,000
Total EXPENDITURES	0	0	27,000	391,000	0	0	0	418,000

New Stallings BPS Expansion

Project Detail

935 Zone Improvements

Project Scope

Project provides for the expansion of the existing Stalling Booster Pumping Station from 1.0 MGD to 2.1 MGD and related improvements.

Project Justification and History

The Comprehensive Water and Wastewater Master Plan identified the need to expand the 935 Zone due to projected low system pressures. With the expansion of this service zone additional pumping capacity will be required.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	0	0	-27,000	-391,000	0	0	0	-418,000
Total REVENUE	0	0	-27,000	-391,000	0	0	0	-418,000
EXPENDITURES								
Construction	0	0	0	391,000	0	0	0	391,000
Design and Engineering	0	0	27,000	0	0	0	0	27,000
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	0	0	27,000	391,000	0	0	0	418,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Crooked Creek Basin Improvements

Program Detail

Program Scope

Program provides for various improvements needed within the Crooked Creek Sewer Basin to reduce inflow and infiltration into the Crooked Creek Waste Water Treatment Plant and to improve the hydraulics for wastewater flow. These projects include an Inflow and Infiltration Study, Headworks Improvements at the Plant, a phased series of Interceptor Improvements, upgrades for replacement of the Forest Park Pump Station, and other necessary improvements.

Program Operating Budget Impact

The projects within the Crooked Creek Basin Improvements program will have some marginal operating budget impacts. We could expect to see an increase in costs related to utilities, chemicals and bio-solids removal. Until the preliminary design and engineering studies are complete it is difficult to quantify what those impacts might be. The costs will be influenced by what technology and processes are established during the design phase.

The Crooked Creek Basin Improvement program is primarily funded from the issuance of Revenue Bonds of \$27,543,500. One issuance will take place in FY 2016, in the amount of \$16,884,500, with a maximum annual debt service impact of \$1,383,000 beginning in FY 2017. The remaining issuance will be in FY 2018 for \$10,659,000, with a maximum debt service impact of \$892,500 beginning in FY 2019, and will retire in twenty years.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2016 Water and Wastewater Rev Bonds	-7,491,500	-2,999,000	-4,963,000	-1,431,000	0	0	0	-16,884,500
FY 2018 Water and Wastewater Rev Bonds	0	-314,000	-2,150,000	-3,657,000	0	-580,000	-3,958,000	-10,659,000
Utility Pay Go	-3,858,300	0	0	-545,000	-4,935,000	0	-1,187,000	-10,525,300
Total REVENUE	-11,349,800	-3,313,000	-7,113,000	-5,633,000	-4,935,000	-580,000	-5,145,000	-38,068,800

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
SP017 CC Headworks Improvements	8,906,000	689,000	0	1,431,000	0	0	0	11,026,000
SW029 CC I&I Study & Remediation	2,186,300	352,000	0	0	0	0	0	2,538,300
SW030 CC Interceptor Improvements Ph I	257,500	1,958,000	4,963,000	0	0	0	0	7,178,500

Crooked Creek Basin Improvements

Program Detail

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
SW039 Forest Park PS Replacement & Interceptor Imp	0	314,000	2,150,000	0	0	0	0	2,464,000
UT001 Crooked Creek Interceptor Imp Ph 2	0	0	0	3,657,000	0	0	0	3,657,000
UT002 Crooked Creek Interceptor Imp Ph 3	0	0	0	0	0	580,000	3,958,000	4,538,000
UT015 Poplin Rd Parallel Force Main	0	0	0	545,000	4,935,000	0	0	5,480,000
UT016 Surburban Estates Pump Station & Force Main	0	0	0	0	0	0	1,187,000	1,187,000
Total EXPENDITURES	11,349,800	3,313,000	7,113,000	5,633,000	4,935,000	580,000	5,145,000	38,068,800

CC Headworks Improvements

Project Detail

Crooked Creek Basin Improvements

Project Scope

Project provides for Crooked Creek Headwork Improvements consisting of 8 MGD influent pumping and screening, 1 MG equalization basin, 1,200 ft of 15-in replacement gravity sewer, 1,500 ft of 16-in replacement force main, and related improvements. As flows increase future transfer pumps will be installed along with minor forcemain improvements.

Project Justification and History

An Inflow and Infiltration Study and remediation of the Crooked Creek Basin will be performed resulting in specific recommendations for reducing the I & I. To reduce the inflow and infiltration causing surcharging going into the CCWWTP four projects have been recommended at the headworks of the plant: An 8 MGD Influent Pumping and Screening facility, 1 MGD Equalization Basin, replacement of 1,200 LF of 15" Gravity Sewer and 1,500 LF of 16" Gravity Sewer.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2016 Water and Wastewater Rev Bonds	-5,309,000	-689,000	0	-1,431,000	0	0	0	-7,429,000
Utility Pay Go	-3,597,000	0	0	0	0	0	0	-3,597,000
Total REVENUE	-8,906,000	-689,000	0	-1,431,000	0	0	0	-11,026,000
EXPENDITURES								
Construction	8,246,800	276,000	0	1,245,000	0	0	0	9,767,800
Design and Engineering	659,200	413,000	0	186,000	0	0	0	1,258,200
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	8,906,000	689,000	0	1,431,000	0	0	0	11,026,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

CC I&I Study & Remediation

Project Detail

Crooked Creek Basin Improvements

Project Scope

Project provides for the Inflow and Infiltration Study and remediation of the Crooked Creek Basin.

Project Justification and History

This project constitutes one of six subprojects included in the Crooked Creek Basin Improvements. An Inflow and Infiltration Study and remediation of the Crooked Creek Basin will be performed resulting in specific recommendations for reducing the I & I. These recommendations may include, but not limited to, pipe replacement, trenchless rehabilitation, manhole lining, pipe bursting, etc. Based on the study the Suburban Estates Sewershed was the 1st priority.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2016 Water and Wastewater Rev Bonds	-1,925,000	-352,000	0	0	0	0	0	-2,277,000
Utility Pay Go	-261,300	0	0	0	0	0	0	-261,300
Total REVENUE	-2,186,300	-352,000	0	0	0	0	0	-2,538,300
EXPENDITURES								
Construction	1,925,000	0	0	0	0	0	0	1,925,000
Design and Engineering	261,300	352,000	0	0	0	0	0	613,300
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	2,186,300	352,000	0	0	0	0	0	2,538,300
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

CC Interceptor Improvements Ph I

Project Detail

Crooked Creek Basin Improvements

Project Scope

Project provides for 40,000 LF of comprehensive sewer rehabilitation and related improvements in the South Fork Sewershed. Given the size of these improvements the project will be split into two construction contracts over a two year timeframe.

Project Justification and History

The Comprehensive Water and Wastewater Master Plan recommended various interceptor improvements within the Crooked Creek Basin. These improvements will reduce inflow and infiltration, and provide additional capacity for current and future wet weather flows.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2016 Water and Wastewater Rev Bonds	-257,500	-1,958,000	-4,963,000	0	0	0	0	-7,178,500
Total REVENUE	-257,500	-1,958,000	-4,963,000	0	0	0	0	-7,178,500
EXPENDITURES								
Construction	0	1,958,000	4,280,000	0	0	0	0	6,238,000
Design and Engineering	257,500	0	683,000	0	0	0	0	940,500
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	257,500	1,958,000	4,963,000	0	0	0	0	7,178,500
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Forest Park PS Replacement & Interceptor Imp

Project Detail

Crooked Creek Basin Improvements

Project Scope

Project provides for the replacement of the Forest Park Pump Station with a new 3 MGD pumps and replacement of 14,000 LF of 12" and 400 LF of 15" of Gravity Sewer line along a South Tributary to Crooked Creek and other related improvements. A future phase will include approximately 7,900 LF of 12" forcemain replacement in 2022.

Project Justification and History

The Comprehensive Water and Wastewater Master Plan identified various interceptor improvements within the Crooked Creek Basin. These improvements will reduce Inflow and infiltration and provide additional capacity for current and future wet weather flows.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 Water and Wastewater Rev Bonds	0	-314,000	-2,150,000	0	0	0	0	-2,464,000
Total REVENUE	0	-314,000	-2,150,000	0	0	0	0	-2,464,000
EXPENDITURES								
Construction	0	0	2,150,000	0	0	0	0	2,150,000
Design and Engineering	0	314,000	0	0	0	0	0	314,000
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	0	314,000	2,150,000	0	0	0	0	2,464,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Crooked Creek Interceptor Imp Ph 2

Project Detail

Crooked Creek Basin Improvements

Project Scope

Project provides approximately 13,400 LF of comprehensive sewer rehabilitation and related improvements.

Project Justification and History

The Comprehensive Water and Wastewater Master Plan identified various interceptor improvements within the Crooked Creek Basin. These improvements will reduce Inflow and infiltration and provide additional capacity for current and future wet weather flows.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 Water and Wastewater Rev Bonds	0	0	0	-3,657,000	0	0	0	-3,657,000
Total REVENUE	0	0	0	-3,657,000	0	0	0	-3,657,000
EXPENDITURES								
Construction	0	0	0	3,180,000	0	0	0	3,180,000
Design and Engineering	0	0	0	477,000	0	0	0	477,000
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	0	0	0	3,657,000	0	0	0	3,657,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Crooked Creek Interceptor Imp Ph 3

Project Detail

Crooked Creek Basin Improvements

Project Scope

Project provides for 22,000 LF of comprehensive sewer rehabilitation and related improvements in Sewershed No. 11 near the Crooked Creek WWTP.

Project Justification and History

The Comprehensive Water and Wastewater Master Plan identified various interceptor improvements within the Crooked Creek Basin. These improvements will reduce Inflow and infiltration and provide additional capacity for current and future wet weather flows.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 Water and Wastewater Rev Bonds	0	0	0	0	0	-580,000	-3,958,000	-4,538,000
Total REVENUE	0	0	0	0	0	-580,000	-3,958,000	-4,538,000
EXPENDITURES								
Construction	0	0	0	0	0	0	3,958,000	3,958,000
Design and Engineering	0	0	0	0	0	580,000	0	580,000
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	0	0	0	0	0	580,000	3,958,000	4,538,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Crooked Creek Interceptor Imp Ph 4

Project Detail

Crooked Creek Basin Improvements

Project Scope

Project provides for 13,400 LF of comprehensive sewer rehabilitation and related improvements for the Crooked Creek Relief Sewer and the North Fork Creek Interceptor.

Project Justification and History

The Comprehensive Water and Wastewater Master Plan identified various interceptor improvements within the Crooked Creek Basin. These improvements will reduce Inflow and infiltration and provide additional capacity for current and future wet weather flows.

Project Resource Summary

Poplin Rd Parallel Force Main

Project Detail

Crooked Creek Basin Improvements

Project Scope

Project provides for a parallel forcemain that will transfer flows from the Crooked Creek WWTP for treatment at the Twelve Mile Creek WWTP.

Project Justification and History

The Crooked Creek I&I Study identified the need for this project in order to prevent the Crooked Creek WWTP from exceeding its rated treatment capacity in the future as flows increase.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	0	0	0	-545,000	-4,935,000	0	0	-5,480,000
Total REVENUE	0	0	0	-545,000	-4,935,000	0	0	-5,480,000
EXPENDITURES								
Construction	0	0	0	0	4,935,000	0	0	4,935,000
Design & Engineering	0	0	0	545,000	0	0	0	545,000
Total EXPENDITURES	0	0	0	545,000	4,935,000	0	0	5,480,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Surburban Estates Pump Station & Force Main

Project Detail

Crooked Creek Basin Improvements

Project Scope

Projects provides for upgrading the existing Suburban Estates Pump Station to 0.43 mgd and replace 3,200 lf of 4-inch forcemain with 6-inch from the suburan Estates Pump Station to the Helmsville Road Pump station Forcemain manifold.

Project Justification and History

The Crooked Creek I&I Study identified the need for this project in order to provide additional capacity for current and future wet weather flows.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total	
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021		
REVENUE									
Utility Pay Go	0	0	0	0	0	0	0	-1,187,000	-1,187,000
Total REVENUE	0	0	0	0	0	0	0	-1,187,000	-1,187,000
EXPENDITURES									
Construction	0	0	0	0	0	0	0	1,032,000	1,032,000
Design & Engineering	0	0	0	0	0	0	0	155,000	155,000
Total EXPENDITURES	0	0	0	0	0	0	0	1,187,000	1,187,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0	0

Crooked Creek Interceptor Imp Ph 5

Project Detail

Crooked Creek Basin Improvements

Project Scope

Project provides for the replacement of 1,500 LF of 27" line, 5,800 LF of 18" line, 1,700 LF of 15" replacement gravity sewer line along the North Fork of Crooked Creek.

Project Justification and History

The Comprehensive Water and Wastewater Master Plan identified various interceptor improvements within the Crooked Creek Basin. These improvements will reduce Inflow and infiltration and provide additional capacity for current and future wet weather flows.

Project Resource Summary

CRWTP Improvements

Program Detail

Program Scope

Program provides for the Catawba River Water Treatment Plant (CRWTP) Improvements that are needed to increase the capacity of the existing plant to meet future population demands based on current growth projections. This project include process improvements, CRWTP expansion of 9mgd, and other necessary improvements. In addition a new 1 BGD raw water reservoir is proposed for on-site storage to reduce withdrawals from the Catawba River during low flow conditions.

Program Operating Budget Impact

The CRWTP Improvement program is primarily funded from the issuance of Revenue Bonds of \$36,829,274 in FY 2016. The maximum annual debt service for this program will be \$2,387,134 and is projected to begin in FY 2017 and retire in twenty years.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Developer Funded	-1,829,829	0	0	0	0	0	0	-1,829,829
FY 2016 Water and Wastewater Rev Bonds	-19,039,280	-3,719,986	-990,008	-13,080,000	0	0	0	-36,829,274
Utility Pay Go	-5,081,711	0	0	0	0	0	0	-5,081,711
Total REVENUE	-25,950,820	-3,719,986	-990,008	-13,080,000	0	0	0	-43,740,814

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
WP003 CRWTP Reservoir Expansion	20,687,780	2,719,986	0	0	0	0	0	23,407,766
WP004 CRWTP Plant Process Improvements	4,336,040	1,000,000	0	0	0	0	0	5,336,040
WP007 CRWTP (Plant) Expansion	927,000	0	990,008	13,080,000	0	0	0	14,997,008
Total EXPENDITURES	25,950,820	3,719,986	990,008	13,080,000	0	0	0	43,740,814

CRWTP Reservoir Expansion

Project Detail

CRWTP Improvements

Project Scope

Project provides for Environmental Mitigation for new 1 BG raw water reservoir at Catawba Raw Water Treatment Plant and subsequent design and construction of 1 BG raw water reservoir.

Project Justification and History

CRWTP Improvements are needed to increase the capacity of the existing plant to meet future population demands based on current growth projections. In order to reduce withdrawals from the Catawba River during low flow conditions a new 1 BGD raw water reservoir is proposed.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Developer Funded	-1,829,829	0	0	0	0	0	0	-1,829,829
FY 2016 Water and Wastewater Rev Bonds	-14,558,780	-2,719,986	0	0	0	0	0	-17,278,766
Utility Pay Go	-4,299,171	0	0	0	0	0	0	-4,299,171
Total REVENUE	-20,687,780	-2,719,986	0	0	0	0	0	-23,407,766
EXPENDITURES								
Construction	14,317,000	2,713,500	0	0	0	0	0	17,030,500
Design and Engineering	3,765,500	6,486	0	0	0	0	0	3,771,986
Land Acquisition	181,280	0	0	0	0	0	0	181,280
Other Activities	2,424,000	0	0	0	0	0	0	2,424,000
Total EXPENDITURES	20,687,780	2,719,986	0	0	0	0	0	23,407,766
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

CRWTP Plant Process Improvements

Project Detail

CRWTP Improvements

Project Scope

Project provides a series of redundancy and reliability improvements to the existing water treatment facility to meet the needs of its existing customer base. These improvements include a new raw water transmission/bypass main, expansion of the residuals handling facility, installation of approximately 1,000 LF of effluent discharge line and improvements to the existing finished water pumping station.

Project Justification and History

CRWTP Improvements are needed to increase the capacity of the existing plant to meet future population demands based on current growth projections. These improvements include process improvements to improve water quality at CRWTP.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2016 Water and Wastewater Rev Bonds	-3,553,500	-1,000,000	0	0	0	0	0	-4,553,500
Utility Pay Go	-782,540	0	0	0	0	0	0	-782,540
Total REVENUE	-4,336,040	-1,000,000	0	0	0	0	0	-5,336,040
EXPENDITURES								
Construction	3,378,400	1,000,000	0	0	0	0	0	4,378,400
Design and Engineering	957,640	0	0	0	0	0	0	957,640
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	4,336,040	1,000,000	0	0	0	0	0	5,336,040
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

CRWTP (Plant) Expansion

Project Detail

CRWTP Improvements

Project Scope

Project provides a 9.0 MGD expansion of the CRWTP and expand the County's allocation at the facility from 18 MGD to 27 MGD. The project consists of new treatment trains and chemical storage and feed facilities.

Project Justification and History

CRWTP Improvements are needed to increase the capacity of the existing plant to meet future population demands based on current growth projections. One of the needed improvements is to increase the capacity by 9MGD to bring the total treatment capacity to 27mgd.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2016 Water and Wastewater Rev Bonds	-927,000	0	-990,008	-13,080,000	0	0	0	-14,997,008
Total REVENUE	-927,000	0	-990,008	-13,080,000	0	0	0	-14,997,008
EXPENDITURES								
Construction	0	0	0	13,080,000	0	0	0	13,080,000
Design and Engineering	927,000	0	990,008	0	0	0	0	1,917,008
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	927,000	0	990,008	13,080,000	0	0	0	14,997,008
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Developer Funded Projects

Program Detail

Program Scope

Program provides for the new infrastructure required to meet potential new development in areas of the sewer collection system currently not served. These developer funded projects represent the combined cost to implement new infrastructure into these undeveloped areas. The timeline and funding for these projects will be accomplished in accordance with the Union County Line Extension Policy.

Program Operating Budget Impact

There are no operating budget impacts related to this program as the projects are all "in the ground" line work.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total	
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021		
REVENUE									
Developer Funded	0	0	0	0	0	0	0	-38,412,000	-38,412,000
Total REVENUE	0	0	0	0	0	0	0	-38,412,000	-38,412,000
Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total	
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021		
EXPENDITURES									
UT005 Developer Funded Projects	0	0	0	0	0	0	0	38,412,000	38,412,000
Total EXPENDITURES	0	0	0	0	0	0	0	38,412,000	38,412,000

Developer Funded Projects

Project Detail

Developer Funded Projects

Project Scope

Project provides for new infrastructure for developer funded projects

Project Justification and History

The Comprehensive Master Plan identified new infrastructure required to meet potential new development in areas of the sewer collection system currently not served. These Developer Funded Projects represent the combined cost to implement new infrastructure into these undeveloped areas. The timeline and funding for these projects will be accomplished in accordance with the Union County Line Extension Policy.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total	
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021		
<i>REVENUE</i>									
Developer Funded	0	0	0	0	0	0	0	-38,412,000	-38,412,000
Total REVENUE	0	0	0	0	0	0	0	-38,412,000	-38,412,000
<i>EXPENDITURES</i>									
Developer Funded	0	0	0	0	0	0	0	38,412,000	38,412,000
Total EXPENDITURES	0	0	0	0	0	0	0	38,412,000	38,412,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0	0

Eastside Wastewater Improvements

Program Detail

Program Scope

Program provides for various improvements needed in the Eastside Service Area to reduce inflow and infiltration and to improve the hydraulics for the wastewater flow. These projects include the Eastside Pump Stations 1, 2 and 3 and the force main replacement project; a new interceptor along Rays Fork and a future expansion of the City of Monroe's Waste Water Treatment Plant, as well as other necessary improvements.

Program Operating Budget Impact

It is anticipated to see a small decline in utilities related to the Rays Fork Interceptor project. We expect no operating impact related to the East Side Improvements program. The City of Monroe WWTP Expansion program is so far out in the planning years that the effects on the operating budget cannot be determined at this time.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2016 Water and Wastewater Rev Bonds	0	0	0	0	0	0	0	0
Grant Funding	-1,961,300	0	0	0	0	0	0	-1,961,300
Utility Pay Go	-12,876,657	0	0	0	0	-1,210,000	-35,712,000	-49,798,657
Total REVENUE	-14,837,957	0	0	0	0	-1,210,000	-35,712,000	-51,759,957

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
SE002 East Side Improvements	8,657,957	0	0	0	0	0	0	8,657,957
SE003 Rays Fork Interceptor	6,180,000	0	0	0	0	0	0	6,180,000
UT006 Monroe WWTP Expansion	0	0	0	0	0	1,210,000	35,712,000	36,922,000
Total EXPENDITURES	14,837,957	0	0	0	0	1,210,000	35,712,000	51,759,957

East Side Improvements

Project Detail

Eastside Wastewater Improvements

Project Scope

Project provides for East Side Sewer Improvements including upgrades to all three Pump Stations and construction of approximately 14,300 LF of 24-inch and 9,000 LF of 18-inch force main that will convey the purchased capacity of 2.65 MGD to the City of Monroe Waste Water Treatment Plant and other necessary improvements.

Project Justification and History

Active Project to reduce Inflow and Infiltration in the Eastside Sewer Service Area. Consists of replacing Eastside Pump Stations 1, 2 and 3 and the force main servicing the pump stations.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Grant Funding	-1,961,300	0	0	0	0	0	0	-1,961,300
Utility Pay Go	-6,696,657	0	0	0	0	0	0	-6,696,657
Total REVENUE	-8,657,957	0	0	0	0	0	0	-8,657,957
EXPENDITURES								
Construction	7,246,374	0	0	0	0	0	0	7,246,374
Design and Engineering	1,331,404	0	0	0	0	0	0	1,331,404
Other Activities	80,179	0	0	0	0	0	0	80,179
Total EXPENDITURES	8,657,957	0	0	0	0	0	0	8,657,957
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Rays Fork Interceptor

Project Detail

Eastside Wastewater Improvements

Project Scope

Project provides for the installation of: 12,600 LF of 12" sewer main, 6,100 LF of 15" sewer main, and other needed improvements.

Project Justification and History

This project will provide an improvement to the wastewater system located within the Eastside Service Area. Two existing Pump Stations maintained by UCPW will be abandoned and a new service area will become available.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2016 Water and Wastewater Rev Bonds	0	0	0	0	0	0	0	0
Utility Pay Go	-6,180,000	0	0	0	0	0	0	-6,180,000
Total REVENUE	-6,180,000	0	0	0	0	0	0	-6,180,000
EXPENDITURES								
Construction	5,500,000	0	0	0	0	0	0	5,500,000
Design and Engineering	680,000	0	0	0	0	0	0	680,000
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	6,180,000	0	0	0	0	0	0	6,180,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Monroe WWTP Expansion

Project Detail

Eastside Wastewater Improvements

Project Scope

Project provides an equitable partnership with the City of Monroe in order to provide an additional 3.0 MGD of wastewater capacity for the Eastside, Lake Twitty, Lake Lee and Richardson Creek Sewer Basins within Union County.

Project Justification and History

The Comprehensive Water and Wastewater Master Plan identified the need for an additional 3.0 MGD of capacity from the City of Monroe as a result of the Development anticipated with the Monroe Bypass.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total	
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021		
REVENUE									
Utility Pay Go	0	0	0	0	0	-1,210,000	-35,712,000	-36,922,000	
Total REVENUE	0	0	0	0	0	-1,210,000	-35,712,000	-36,922,000	
EXPENDITURES									
Construction	0	0	0	0	0	0	35,712,000	35,712,000	
Design and Engineering	0	0	0	0	0	1,210,000	0	1,210,000	
Land Acquisition	0	0	0	0	0	0	0	0	
Total EXPENDITURES	0	0	0	0	0	1,210,000	35,712,000	36,922,000	
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0	

New 880 Pressure Zone

Program Detail

Program Scope

Program provides for the creation a new pressure zone for the high elevation customers in the north-west portion of the 853 West Zone, projects required to develop the 880 Pressure Zone including construction of a new 6.4 MGD Booster Pump Station, installation of pressure reducing valves, the decommissioning of the existing Waxhaw-Marvin Booster Pumping Station, and other necessary improvements.

Program Operating Budget Impact

The New 880 Pressure Zone program consists of two projects: Weddington Elevated Storage Tank and 880 Pressure Zone Pump Station. The new tank should have some minor operating costs (less than \$2,000 per year) related to utilities and inspections. There will also be more significant expenses related to repainting the tank every 8 to 15 years. The composite base on this specific tank will decrease the amount of painting expense. We would expected to see additional utility expense associated with the 880 Pressure Zone Pump Station but we would in turn see utility costs decrease with the decommission of the Waxhaw-Marvin Tank once the projects in this program are complete.

The New 880 Pressure Zone program is primarily funded from the issuance of Revenue Bonds of \$7,683,800 in FY 2016. The maximum annual debt service for this program will be \$635,796 and is projected to begin in FY 2017 and retire in twenty years.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2016 Water and Wastewater Rev Bonds	-7,683,800	0	0	0	0	0	0	-7,683,800
Utility Pay Go	-3,216,445	0	0	0	0	0	0	-3,216,445
Total REVENUE	-10,900,245	0	0	0	0	0	0	-10,900,245

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
WT044 Weddington Elevated Storage Tank	5,774,045	0	0	0	0	0	0	5,774,045
WT053 New 880 Pump Station	5,126,200	0	0	0	0	0	0	5,126,200
Total EXPENDITURES	10,900,245	0	0	0	0	0	0	10,900,245

Weddington Elevated Storage Tank

Project Detail

New 880 Pressure Zone

Project Scope

Project provides for 1.5 MG Elevated Storage Tank including land acquisition and other related cost.

Project Justification and History

The new elevated storage tank in Weddington is needed to improve water pressure for UCPW customers on the western side of the city. This project will help establish the 880 Pressure Zone which will create a new pressure zone for all customers in high elevations of the current 853 West Zone.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2016 Water and Wastewater Rev Bonds	-3,007,600	0	0	0	0	0	0	-3,007,600
Utility Pay Go	-2,766,445	0	0	0	0	0	0	-2,766,445
Total REVENUE	-5,774,045	0	0	0	0	0	0	-5,774,045
EXPENDITURES								
Construction	4,725,000	0	0	0	0	0	0	4,725,000
Design and Engineering	624,998	0	0	0	0	0	0	624,998
Land Acquisition	415,900	0	0	0	0	0	0	415,900
Other Activities	8,147	0	0	0	0	0	0	8,147
Total EXPENDITURES	5,774,045	0	0	0	0	0	0	5,774,045
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

New 880 Pump Station

Project Detail

New 880 Pressure Zone

Project Scope

Project provides for improvements to 880 Zone BPS - 6.4 MGD Booster Pump Station including land acquisition, 853 South/762 PRV to supply 762 zone (emergencies), 880/853 West PRV's to supply 853 zone (emergencies), 880/821 Check Valve to supply 880 zone (emergencies), 853 West/821 PRV to supply 821 zone (emergencies).

Project Justification and History

This project will create a new pressure zone for the high elevation customers in the north-west portion of the 853 West Zone which currently experiences low and inconsistent water pressure. There is also limited available effective storage for the Indian Trail and Stallings Tanks which serve the 853 Zone. Projects required to develop the 880 Pressure Zone will include construction of a new 6.4 MGD Booster Pump Station, installation of several new pressure reducing valves and the decommissioning of the existing Waxhaw-Marvin Booster Pumping Station.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2016 Water and Wastewater Rev Bonds	-4,676,200	0	0	0	0	0	0	-4,676,200
Utility Pay Go	-450,000	0	0	0	0	0	0	-450,000
Total REVENUE	-5,126,200	0	0	0	0	0	0	-5,126,200
EXPENDITURES								
Construction	4,264,200	0	0	0	0	0	0	4,264,200
Design and Engineering	450,000	0	0	0	0	0	0	450,000
Land Acquisition	412,000	0	0	0	0	0	0	412,000
Total EXPENDITURES	5,126,200	0	0	0	0	0	0	5,126,200
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

New Lake Twitty Sewer Shed

Program Detail

Program Scope

Program provides for the creation of the Lake Twitty Sewer Shed to provide sewer service for potential customers residing in the Lake Twitty Basin. Projects required to institute the new sewer shed include construction of a new Pump Station, force main, large diameter sewer interceptors, and other necessary improvements.

Program Operating Budget Impact

The development of the Lake Twitty Sewer Shed is in the last planning year of our proposed budget. It is difficult to determine exact impacts to the operating budget at this time, but we expect some costs associated with utilities and additional sewer flow to Monroe.

The New Lake Twitty Sewer Shed program is funded from the issuance of Revenue Bonds of \$5,569,000 in FY 2019. The maximum annual debt service impact for this program will be \$514,500 and is projected to begin in FY 2020 and retire in twenty years.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2019 Water and Wastewater Rev Bonds	0	0	0	0	0	-361,000	-5,208,000	-5,569,000
Total REVENUE	0	0	0	0	0	-361,000	-5,208,000	-5,569,000
Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
UT007 Development Of Lake Twitty Sewer Shed	0	0	0	0	0	361,000	5,208,000	5,569,000
Total EXPENDITURES	0	0	0	0	0	361,000	5,208,000	5,569,000

Development Of Lake Twitty Sewer Shed

Project Detail

New Lake Twitty Sewer Shed

Project Scope

Project provides approximately 5,400 LF of 12" Gravity Sewer line along East Fork, 12,700 LF of 12" and 3,300 LF of 15" Gravity Sewer line along Stumplick Branch. In addition a new 3.2 MGD Pump Station and 6,800 LF of 12" force main will be required to se

Project Justification and History

The Comprehensive Water and Wastewater Master Plan identified the need for providing a new Sewer Service area for new Commercial development expected in the immediate vicinity of the Monroe Bypass.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total	
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021		
REVENUE									
FY 2019 Water and Wastewater Rev Bonds	0	0	0	0	0	-361,000	-5,208,000	-5,569,000	
Total REVENUE	0	0	0	0	0	-361,000	-5,208,000	-5,569,000	
EXPENDITURES									
Construction	0	0	0	0	0	0	5,208,000	5,208,000	
Design and Engineering	0	0	0	0	0	361,000	0	361,000	
Land Acquisition	0	0	0	0	0	0	0	0	
Total EXPENDITURES	0	0	0	0	0	361,000	5,208,000	5,569,000	
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0	

Short Line Extensions

Program Detail

Program Scope

Program provides projects as outlined in the Extension Ordinance to allow Union County Public Works to extend water service and provide an environmental benefit to qualifying applicants in Union County.

Program Operating Budget Impact

There are no operating budget impacts related to this program as the projects are all "in the ground" line work.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Developer Funded	-34,825	0	0	0	0	0	0	-34,825
Utility Pay Go	-2,056,175	-545,000	-560,000	-575,000	-591,000	-605,000	-620,000	-5,552,175
Total REVENUE	-2,091,000	-545,000	-560,000	-575,000	-591,000	-605,000	-620,000	-5,587,000

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
MW017 Short Line Extensions Water	1,791,000	545,000	560,000	575,000	591,000	605,000	620,000	5,287,000
MW022 Infrastructure Extensions to Service County Facilities	300,000	0	0	0	0	0	0	300,000
Total EXPENDITURES	2,091,000	545,000	560,000	575,000	591,000	605,000	620,000	5,587,000

Short Line Extensions Water

Project Detail

Short Line Extensions

Project Scope

Project provides for water main extensions (<1000 LF) for qualifying customers.

Project Justification and History

Annual program included in the Extension Ordinance to allow Union County Public Works to extend water service and provide an environmental benefit to qualifying applicants in Union County.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Developer Funded	-34,825	0	0	0	0	0	0	-34,825
Utility Pay Go	-1,756,175	-545,000	-560,000	-575,000	-591,000	-605,000	-620,000	-5,252,175
Total REVENUE	-1,791,000	-545,000	-560,000	-575,000	-591,000	-605,000	-620,000	-5,287,000
EXPENDITURES								
Construction	1,555,926	463,000	476,000	489,000	502,000	514,000	527,000	4,526,926
Design and Engineering	235,074	82,000	84,000	86,000	89,000	91,000	93,000	760,074
Total EXPENDITURES	1,791,000	545,000	560,000	575,000	591,000	605,000	620,000	5,287,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Infrastructure Extensions to Service County Facilities

Project Detail

Short Line Extensions

Project Scope

Project provides for various water or sewer extensions to service existing or proposed county facilities. Current projects include water line extensions to service Jesse Helms Park and the future shooting range for the Sheriff's Office.

Project Justification and History

This project will create the off site infrastructure needed to serve county facilities.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
<i>REVENUE</i>								
Utility Pay Go	-300,000	0	0	0	0	0	0	-300,000
Total REVENUE	-300,000	0	0	0	0	0	0	-300,000
<i>EXPENDITURES</i>								
Construction	300,000	0	0	0	0	0	0	300,000
Design and Engineering	0	0	0	0	0	0	0	0
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	300,000	0	0	0	0	0	0	300,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Town Center Sewer Development

Program Detail

Program Scope

Program provides for Town Center Sewer Development and consists of community outreach programs to various towns located within the Union County Public Works service area. These programs will improve existing wastewater infrastructure or provide solutions for addressing new wastewater service in these towns. The towns of Mineral Springs, Stallings, Unionville and Fairview were identified in the 2011 Master Plan for service and infrastructure improvements.

Program Operating Budget Impact

There are no known operating budget impacts related to the Stallings, Mineral Springs, Unionville or Fairview WW projects.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-2,007,440	-100,000	0	0	0	0	0	-2,107,440
Total REVENUE	-2,007,440	-100,000	0	0	0	0	0	-2,107,440

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
SW026 Stallings- Collection System	431,200	0	0	0	0	0	0	431,200
SW028 Mineral Springs-Collection System	1,267,240	0	0	0	0	0	0	1,267,240
SW033 Unionville Comm Center WW Service	103,000	0	0	0	0	0	0	103,000
SW034 Fairview Downtown WW Service	206,000	0	0	0	0	0	0	206,000
SW038 Weddington Downtown Development	0	100,000	0	0	0	0	0	100,000
Total EXPENDITURES	2,007,440	100,000	0	0	0	0	0	2,107,440

Stallings- Collection System

Project Detail

Town Center Sewer Development

Project Scope

Project provides study of the Town of Stallings and how to provide efficient sewer service. A "mini-master plan" of Stallings.

Project Justification and History

Stallings Downtown Wastewater Service is identified as part of the Town Center Sewer Development from the Comprehensive Water and Wastewater Master Plan. This Community Outreach Program will provide solutions for addressing new wastewater service within the Stallings town limits.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-431,200	0	0	0	0	0	0	-431,200
Total REVENUE	-431,200	0	0	0	0	0	0	-431,200
EXPENDITURES								
Construction	325,000	0	0	0	0	0	0	325,000
Design and Engineering	106,200	0	0	0	0	0	0	106,200
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	431,200	0	0	0	0	0	0	431,200
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Mineral Springs-Collection System

Project Detail

Town Center Sewer Development

Project Scope

Project provides a study of the Town of Mineral Springs and how the town can best be served with Water and Sewer. Provide a `mini-master plan` for the Town of Mineral Springs.

Project Justification and History

Mineral Springs Downtown Wastewater Service is identified as part of the Town Center Sewer Development from the Comprehensive Water and Wastewater Master Plan. This Community Outreach Program will provide solutions for addressing new wastewater service within the Mineral Springs town limits.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-1,267,240	0	0	0	0	0	0	-1,267,240
Total REVENUE	-1,267,240	0	0	0	0	0	0	-1,267,240
EXPENDITURES								
Construction	1,001,700	0	0	0	0	0	0	1,001,700
Design and Engineering	265,540	0	0	0	0	0	0	265,540
Other Activities	0	0	0	0	0	0	0	0
Total EXPENDITURES	1,267,240	0	0	0	0	0	0	1,267,240
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Unionville Comm Center WW Service

Project Detail

Town Center Sewer Development

Project Scope

Project provides a community outreach project. Study to best provide wastewater service to Unionville Community Center.

Project Justification and History

Unionville Community Center Wastewater Service is identified as part of the Town Center Sewer Development from the Comprehensive Water and Wastewater Master Plan. This Community Outreach Program will provide solutions for addressing new wastewater service for the Unionville Community Center.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-103,000	0	0	0	0	0	0	-103,000
Total REVENUE	-103,000	0	0	0	0	0	0	-103,000
EXPENDITURES								
Construction	0	0	0	0	0	0	0	0
Design and Engineering	103,000	0	0	0	0	0	0	103,000
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	103,000	0	0	0	0	0	0	103,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Fairview Downtown WW Service

Project Detail

Town Center Sewer Development

Project Scope

Project provides a study to determine the best method to service downtown Fairview.

Project Justification and History

Fairview Downtown Wastewater Service is identified as part of the Town Center Sewer Development from the Comprehensive Water and Wastewater Master Plan. This Community Outreach Program will provide solutions for addressing new wastewater service within the Fairview town limits.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-206,000	0	0	0	0	0	0	-206,000
Total REVENUE	-206,000	0	0	0	0	0	0	-206,000
EXPENDITURES								
Construction	0	0	0	0	0	0	0	0
Design and Engineering	206,000	0	0	0	0	0	0	206,000
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	206,000	0	0	0	0	0	0	206,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Weddington Downtown Development

Project Detail

Town Center Sewer Development

Project Scope

Project provides a study to determine the best method to service downtown Weddington with wastewater service.

Project Justification and History

As a part of the Community Outreach Program that was established as part of the Comprehensive Water and Wastewater Master Plan, this project will provide solutions for addressing wastewater service within Weddington's Downtown Development.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	0	-100,000	0	0	0	0	0	-100,000
Total REVENUE	0	-100,000	0	0	0	0	0	-100,000
EXPENDITURES								
Design and Engineering	0	100,000	0	0	0	0	0	100,000
Total EXPENDITURES	0	100,000	0	0	0	0	0	100,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Twelve Mile Creek WWTP System Improvements

Program Detail

Program Scope

Program provides for Twelve Mile Creek Waste Water Treatment Plant (WWTP) System Improvements that involve various improvements needed within the Twelve Mile Creek WWTP Service Area to reduce inflow and infiltration into the Twelve Mile Creek WWTP and to improve the hydraulics for the wastewater flow. These projects include the Twelve Mile WWTP conceptual design and interim improvements study, subsequent expansion of the WWTP, a phased series of Interceptor Improvements along both the East Fork and West Fork tributaries; installation of new diversion pump station and force main and the decommission of the Hunley Creek WWTP.

Program Operating Budget Impact

The projects within the Twelve Mile Creek WWTP System Improvements program will have some marginal operating budget impacts. We could expect to see an increase in costs related to utilities, chemicals and bio-solids removal. Until the preliminary design and engineering studies are complete it is difficult to quantify what those impacts might be. The costs will be influenced by what technology and processes are established during the design phase.

The Twelve Mile Creek WWTP System Improvements program is primarily funded for the issuance of Revenue Bonds of \$49,318,400. One issuance will take place in FY 2016 of \$6,612,600 with a maximum annual debt service impact of \$552,000 beginning in FY 2017. The remaining issuance will be in FY 2018 of \$42,705,800 with a maximum debt service impact of \$3,461,500 beginning in FY 2019 and will retire in twenty years.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Developer Funded	0	0	0	0	0	0	0	0
FY 2016 Water and Wastewater Rev Bonds	-6,612,600	0	0	0	0	0	0	-6,612,600
FY 2018 Water and Wastewater Rev Bonds	-842,800	-33,780,000	0	0	-8,083,000	0	0	-42,705,800
Utility Pay Go	-12,190,215	-191,000	-2,238,000	0	0	0	0	-14,619,215
Total REVENUE	-19,645,615	-33,971,000	-2,238,000	0	-8,083,000	0	0	-63,937,615

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
SP011 12 ML WWTP Design & Interim Imprv (Filters)	11,513,215	0	0	0	0	0	0	11,513,215
SP018 Hunley Creek WWTP Decommission	127,000	0	0	0	0	0	0	127,000
SP019 12 Mile Creek WWTP Expansion (6-7.5 MGD)	101,200	33,780,000	0	0	0	0	0	33,881,200

Twelve Mile Creek WWTP System Improvements

Program Detail

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
SW022 East Fork 12M Crk Parallel Trunk	7,162,600	0	0	0	0	0	0	7,162,600
SW032 Blythe Creek Sewer Improvements	0	191,000	2,238,000	0	0	0	0	2,429,000
SW037 West Fork 12MI Interceptor Improvments	741,600	0	0	0	8,083,000	0	0	8,824,600
Total EXPENDITURES	19,645,615	33,971,000	2,238,000	0	8,083,000	0	0	63,937,615

12 ML WWTP Design & Interim Imprv (Filters)

Project Detail

Twelve Mile Creek WWTP System Improvements

Project Scope

Project provides for 12 Mile Waste Water Treatment Plant Interim Improvements to replace the existing filters.

Project Justification and History

Twelve Mile Creek WWTP System Improvements involves various improvements needed within the Twelve Mile Creek WWTP Service Area to reduce Inflow and Infiltration into the 12 Mile WWTP and to improve the hydraulics for the wastewater flow. To accommodate Union County's growth rate, the 12 Mile WWTP will require expansion. A conceptual design and facility layout detailing the expansion needs to begin in FY '14 for construction to begin in FY '16. Near term improvements are needed to improve the treatment reliability. These interim improvements can accommodate the projected growth rate until the additional capacity from the expansion becomes available.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-11,513,215	0	0	0	0	0	0	-11,513,215
Total REVENUE	-11,513,215	0	0	0	0	0	0	-11,513,215
EXPENDITURES								
Construction	9,107,010	0	0	0	0	0	0	9,107,010
Design and Engineering	2,406,205	0	0	0	0	0	0	2,406,205
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	11,513,215	0	0	0	0	0	0	11,513,215
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Hunley Creek WWTP Decommission

Project Detail

Twelve Mile Creek WWTP System Improvements

Project Scope

Project provides for the Demolition of Hunley Creek Wastewater Treatment Plant.

Project Justification and History

Hunley Creek WWTP is an offline plant owned by UCPW. The plant became a liability and bypassed as a result of Poplin Road Pump Station Project. Complete decommission and demolition of the plant is needed as the structure is a safety hazard.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-127,000	0	0	0	0	0	0	-127,000
Total REVENUE	-127,000	0	0	0	0	0	0	-127,000
EXPENDITURES								
Construction	108,000	0	0	0	0	0	0	108,000
Design and Engineering	19,000	0	0	0	0	0	0	19,000
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	127,000	0	0	0	0	0	0	127,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

12 Mile Creek WWTP Expansion (6-7.5 MGD)

Project Detail

Twelve Mile Creek WWTP System Improvements

Project Scope

Project provides for 1.5 MGD capacity expansion from 6 MGD to 7.5 MGD (Phase 1) and related improvements.

Project Justification and History

Twelve Mile Creek WWTP System Improvements involves various improvements needed within the Twelve Mile Creek WWTP Service Area to reduce Inflow and Infiltration into the 12 Mile WWTP and to improve the hydraulics for the wastewater flow. To accommodate Union County's growth rate, the 12 Mile WWTP will require expansion. The expansion will expand the treatment capacity of 12 Mile WWTP by 1.5 MGD, from 6 MGD to 7.5 MGD.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 Water and Wastewater Rev Bonds	-101,200	-33,780,000	0	0	0	0	0	-33,881,200
Total REVENUE	-101,200	-33,780,000	0	0	0	0	0	-33,881,200
EXPENDITURES								
Construction	0	31,600,000	0	0	0	0	0	31,600,000
Design and Engineering	101,200	2,180,000	0	0	0	0	0	2,281,200
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	101,200	33,780,000	0	0	0	0	0	33,881,200
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

East Fork 12M Crk Parallel Trunk

Project Detail

Twelve Mile Creek WWTP System Improvements

Project Scope

Project provides for improvements to East Fork Twelve Mile and tributaries with the installation of 16,000 LF of 24" lines, 5,800 LF of 18" lines, 300 LF of 15" lines, 12,400 LF of 12" lines, and improvements to Davis Mine Creek Gravity flow with the inst

Project Justification and History

Twelve Mile Creek WWTP System Improvements involves various improvements needed within the Twelve Mile Creek WWTP Service Area to reduce Inflow and Infiltration into the 12 Mile WWTP and to improve the hydraulics for the wastewater flow. A big contributor to the inflow and infiltration coming into 12 Mile WWTP results from extensive growth in the Weddington/Wesley Chapel area. The East Fork and Davis Mine interceptors serving these sewer basins are near capacity and often surcharge during rain events. Replacing and paralleling these interceptors with a larger diameter sewer line will help improve the I & I for these respective basins.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Developer Funded	0	0	0	0	0	0	0	0
FY 2016 Water and Wastewater Rev Bonds	-6,612,600	0	0	0	0	0	0	-6,612,600
Utility Pay Go	-550,000	0	0	0	0	0	0	-550,000
Total REVENUE	-7,162,600	0	0	0	0	0	0	-7,162,600
EXPENDITURES								
Construction	6,612,600	0	0	0	0	0	0	6,612,600
Design and Engineering	550,000	0	0	0	0	0	0	550,000
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	7,162,600	0	0	0	0	0	0	7,162,600
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Blythe Creek Sewer Improvements

Project Detail

Twelve Mile Creek WWTP System Improvements

Project Scope

Project provides for improvements to the Blythe Creek Tributary Sewer - Local sewers and 2,200 LF of 12" new sewer line (Waxhaw Grinder Pumps), Blythe Creek Sewer Extension - Local sewers and 2,600 LF of 12" new sewer (Wysacky grinder pumps) and related improvements.

Project Justification and History

WWTP Service Area to reduce Inflow and Infiltration into the 12 Mile WWTP and to improve the hydraulics for the wastewater flow. A contributor to the excessive I & I coming into the plant is the existing grey water system servicing a portion of the Town of Waxhaw. These lines are old and deteriorating and overflow during rain events. Two new sewer lines along Blythe Creek would help eliminate these old sewer lines as well as get rid of the old grinder pumps accompanying the greywater system.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	0	-191,000	-2,238,000	0	0	0	0	-2,429,000
Total REVENUE	0	-191,000	-2,238,000	0	0	0	0	-2,429,000
EXPENDITURES								
Construction	0	0	2,238,000	0	0	0	0	2,238,000
Design and Engineering	0	191,000	0	0	0	0	0	191,000
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	0	191,000	2,238,000	0	0	0	0	2,429,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

West Fork 12MI Interceptor Improvements

Project Detail

Twelve Mile Creek WWTP System Improvements

Project Scope

Project provides for approximately 12,200 LF of 30" and 12,300 LF of 18" Gravity Sewer line along the West Fork of Twelve Mile Creek and 5,300 LF of 21" Gravity Sewer line along a Tributary to West Fork. In addition approximately 3,700 LF of 16" force main will be extended to the West Fork of Twelve Mile Creek and other related improvements.

Project Justification and History

The Comprehensive Water and Wastewater Master Plan identified the need to provide new sewer infrastructure to the northern part of the Twelve Mile Service Basin. These improvements will provide additional capacity for current and future wet weather sewer flows. In addition this project will alleviate the existing South Fork Interceptor which is currently at capacity by eliminating the existing Brookhaven Pump Station and extending the existing Poplin Road force main to the West Fork of Twelve Mile Creek.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2018 Water and Wastewater Rev Bonds	-741,600	0	0	0	-8,083,000	0	0	-8,824,600
Total REVENUE	-741,600	0	0	0	-8,083,000	0	0	-8,824,600
EXPENDITURES								
Construction	0	0	0	0	8,083,000	0	0	8,083,000
Design and Engineering	741,600	0	0	0	0	0	0	741,600
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	741,600	0	0	0	8,083,000	0	0	8,824,600
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

12 Mile Creek WWTP Exp to 9.0 MGD

Project Detail

Twelve Mile Creek WWTP System Improvements

Project Scope

Project provides for a 1.5 MGD capacity Expansion from 7.5 MGD to 9 MGD (Phase 2) and related improvements.

Project Justification and History

Twelve Mile Creek WWTP System Improvements involves various improvements needed within the Twelve Mile Creek WWTP Service Area to reduce Inflow and Infiltration into the 12 Mile WWTP. To accommodate Union County's growth rate, the 12 Mile WWTP will require expansion. A conceptual design and facility layout was completed in 2014 and recommended a phased expansion. This expansion will expand the treatment capacity of the 12 Mile WWTP by 1.5 MGD, from 7.5 MGD to 9.0 MGD.

Project Resource Summary

UCPW Buildings & Improvements

Program Detail

Program Scope

Program provides for the Union County Public Works Buildings and improvements including facility renovations within the 4th and 5th floors of the Government Center and the design, engineering and construction for a new Operations Center, and other necessary improvements.

Program Operating Budget Impact

We expect additional operating expenses related to expanding the Operations Center. The expected costs are associated with utilities and maintenance. As we prepare the FY16 budget, the costs accompanying the expansion of the Operations Center will be looked at in more detail.

The UCPW Building and Improvements program is primarily funded from the issuance of Revenue Bonds of \$8,209,100 in FY 2016. The maximum annual debt service impact for this program will be \$724,500 beginning in FY 2017 and will retire in twenty years.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2016 Water and Wastewater Rev Bonds	-8,209,100	0	0	0	0	0	0	-8,209,100
Utility Pay Go	-2,706,276	0	0	0	0	0	0	-2,706,276
Total REVENUE	-10,915,376	0	0	0	0	0	0	-10,915,376

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
PW005 PW (GOV) FAC RENOVATIONS	1,826,276	0	0	0	0	0	0	1,826,276
PW006 EXPAND OPERATIONS CENTER	9,089,100	0	0	0	0	0	0	9,089,100
Total EXPENDITURES	10,915,376	0	0	0	0	0	0	10,915,376

PW (GOV) FAC RENOVATIONS

Project Detail

UCPW Buildings & Improvements

Project Scope

Project provides for facility renovations to the fourth and fifth floors of the Government Center including needed design, construction, furnishings, and other necessary components.

Project Justification and History

UCPW buildings and improvements will fund existing facility renovations within the 4th and 5th floors of the Government Center. These improvements will provide facilities designed to promote increased work efficiencies.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
<i>REVENUE</i>								
Utility Pay Go	-1,826,276	0	0	0	0	0	0	-1,826,276
Total REVENUE	-1,826,276	0	0	0	0	0	0	-1,826,276
<i>EXPENDITURES</i>								
Construction	1,826,276	0	0	0	0	0	0	1,826,276
Total EXPENDITURES	1,826,276	0	0	0	0	0	0	1,826,276
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

EXPAND OPERATIONS CENTER

Project Detail

UCPW Buildings & Improvements

Project Scope

Project provides for the redevelopment of approximately 18 acres of the existing 100 acre site currently used as the departments Operation Center. Project elements include a new Administration Building including Staff Support and Training Facility, a new Warehouse, Fueling Station, Vehicle wash, renovation of two existing buildings and demolition of various existing structures on site. Also included will be the development of all required infrastructure on site including a new entrance, water, sewer, power, parking and storm water management.

Project Justification and History

The design, engineering and construction for a new Operations Center to provide facilities promoting increased work efficiencies for Operations.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2016 Water and Wastewater Rev Bonds	-8,209,100	0	0	0	0	0	0	-8,209,100
Utility Pay Go	-880,000	0	0	0	0	0	0	-880,000
Total REVENUE	-9,089,100	0	0	0	0	0	0	-9,089,100
EXPENDITURES								
Construction	8,209,100	0	0	0	0	0	0	8,209,100
Design and Engineering	880,000	0	0	0	0	0	0	880,000
Total EXPENDITURES	9,089,100	0	0	0	0	0	0	9,089,100
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Wastewater Pump Station Improvements

Program Detail

Program Scope

Program provides for Wastewater Pump Station Improvements as an annual program identified as part of the Comprehensive Water and Wastewater Master Plan geared towards Asset Management of existing Wastewater Pump Stations. This program includes upgrades of the existing pump stations including, but not limited to, motors, drives, pumps, telemetry, generators, force mains and odors. Four pump stations have been identified that need significant improvements and require an individual operating general ledger account organizational code for each station: Suburban Estates, Helmsville, Forest Park and 21-25 Pump Stations. In addition, this project will provide for rehabilitation of aging and inadequate wastewater infrastructure, manholes and sewer system evaluation and survey, condition assessment and reduction of sanitary sewer overflows within the collection system.

Program Operating Budget Impact

The projects within this program will have little or no operating budget impact.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-2,215,000	-327,000	-784,000	-231,000	-1,562,000	-847,000	-248,000	-6,214,000
Total REVENUE	-2,215,000	-327,000	-784,000	-231,000	-1,562,000	-847,000	-248,000	-6,214,000
Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
SW031 Helmsville Road PS Improvements	1,503,000	0	0	0	1,208,000	0	0	2,711,000
SW035 Collection System SSES & Rehab	500,000	109,000	560,000	0	118,000	605,000	0	1,892,000
SW036 Pumping Station Upgrades	212,000	218,000	224,000	231,000	236,000	242,000	248,000	1,611,000
Total EXPENDITURES	2,215,000	327,000	784,000	231,000	1,562,000	847,000	248,000	6,214,000

Helmsville Road PS Improvements

Project Detail

Wastewater Pump Station Improvements

Project Scope

Project provides for the replacement of the Helmsville Pumping Station including approximately 4,600 LF of 8" forcemain replacement.

Project Justification and History

Project will be performed under the Wastewater Improvements annual program identified as a part of the Comprehensive Water and Wastewater Master Plan. The Helmsville Pumping Station replacement was a recommended project identified from the Crooked Creek I&I Study.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-1,503,000	0	0	0	-1,208,000	0	0	-2,711,000
Total REVENUE	-1,503,000	0	0	0	-1,208,000	0	0	-2,711,000
EXPENDITURES								
Construction	1,307,000	0	0	0	1,050,000	0	0	2,357,000
Design and Engineering	196,000	0	0	0	158,000	0	0	354,000
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	1,503,000	0	0	0	1,208,000	0	0	2,711,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Collection System SSES & Rehab

Project Detail

Wastewater Pump Station Improvements

Project Scope

Project provides for rehabilitation of aging and inadequate wastewater infrastructure, manhole and sewer SSES, condition assessment and reduce sanitary sewer overflows within the collection system.

Project Justification and History

Collection System Rehabilitation is an annual program identified as part of the Comprehensive Water and Wastewater Master Plan geared towards Asset Management of existing wastewater collection systems. This program will provide for rehabilitation of aging and inadequate wastewater infrastructure, manhole and sewer SSES, condition assessment and reduce sanitary sewer overflows within the collection system.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-500,000	-109,000	-560,000	0	-118,000	-605,000	0	-1,892,000
Total REVENUE	-500,000	-109,000	-560,000	0	-118,000	-605,000	0	-1,892,000
EXPENDITURES								
Construction	0	0	560,000	0	0	605,000	0	1,165,000
Design and Engineering	500,000	109,000	0	0	118,000	0	0	727,000
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	500,000	109,000	560,000	0	118,000	605,000	0	1,892,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Pumping Station Upgrades

Project Detail

Wastewater Pump Station Improvements

Project Scope

Project provides for rehabilitation of aging and inadequate wastewater infrastructure, manhole and sewer SSES, condition assessment, and reduce sanitary sewer overflows within the collection system.

Project Justification and History

General upgrades for existing pump stations identified in the Comprehensive Water and Wastewater Master Plan. This includes upgrading or replacing the motors, drives, pumps, telemetry, generators, force mains, addressing odors, etc.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-212,000	-218,000	-224,000	-231,000	-236,000	-242,000	-248,000	-1,611,000
Total REVENUE	-212,000	-218,000	-224,000	-231,000	-236,000	-242,000	-248,000	-1,611,000
EXPENDITURES								
Construction	180,000	185,000	190,000	196,000	201,000	206,000	211,000	1,369,000
Design and Engineering	32,000	33,000	34,000	35,000	35,000	36,000	37,000	242,000
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	212,000	218,000	224,000	231,000	236,000	242,000	248,000	1,611,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Wastewater Rehabilitation and Replacement

Program Detail

Program Scope

Program provides for Wastewater Rehabilitation and Replacement as an annual program identified as part of the Comprehensive Water and Wastewater Master Plan geared towards Asset Management of existing Wastewater Facilities. The initial projects identified are the Tallwood Waste Water Treatment Plant (WWTP) replacement and the Olde Sycamore WWTP Improvements. The Tallwood WWTP replacement is replacing an aging and deteriorating existing plant while the Olde Sycamore WWTP Improvements address existing problems affecting functionality of the existing plant.

Program Operating Budget Impact

The projects within this program will have little or no operating budget impact.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-5,623,960	-1,499,000	-1,732,000	-1,780,000	-1,828,000	-1,876,000	-1,364,000	-15,702,960
Total REVENUE	-5,623,960	-1,499,000	-1,732,000	-1,780,000	-1,828,000	-1,876,000	-1,364,000	-15,702,960

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
MS006 Wastewater R&R Program	1,212,360	1,199,000	1,232,000	1,265,000	1,298,000	1,331,000	1,364,000	8,901,360
MS009 Manhole Rehab 12ML & Grassy Branch	1,136,640	0	0	0	0	0	0	1,136,640
MS010 SCADA Master Plan - Wastewater	0	300,000	500,000	515,000	530,000	545,000	0	2,390,000
SP015 Tallwood WWTP Replacement	2,454,960	0	0	0	0	0	0	2,454,960
SP020 Grassy Branch WWTP	550,000	0	0	0	0	0	0	550,000
SP021 Olde Sycamore WWTP Improvements	270,000	0	0	0	0	0	0	270,000
Total EXPENDITURES	5,623,960	1,499,000	1,732,000	1,780,000	1,828,000	1,876,000	1,364,000	15,702,960

Wastewater R&R Program

Project Detail

Wastewater Rehabilitation and Replacement

Project Scope

Project provides for the annual wastewater rehabilitation program.

Project Justification and History

Wastewater rehabilitation and replacement is an annual program identified as part of the Comprehensive Water and Wastewater Master Plan geared towards Asset Management of existing wastewater facilities. UCPW`s facilities` will be assessed and analyzed on a yearly basis and rehabilitated based on the condition and need.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-1,212,360	-1,199,000	-1,232,000	-1,265,000	-1,298,000	-1,331,000	-1,364,000	-8,901,360
Total REVENUE	-1,212,360	-1,199,000	-1,232,000	-1,265,000	-1,298,000	-1,331,000	-1,364,000	-8,901,360
EXPENDITURES								
Construction	1,037,360	1,019,000	1,047,000	1,075,000	1,103,000	1,131,000	1,159,000	7,571,360
Design and Engineering	175,000	180,000	185,000	190,000	195,000	200,000	205,000	1,330,000
Total EXPENDITURES	1,212,360	1,199,000	1,232,000	1,265,000	1,298,000	1,331,000	1,364,000	8,901,360
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Manhole Rehab 12ML & Grassy Branch

Project Detail

Wastewater Rehabilitation and Replacement

Project Scope

Project provides for the annual wastewater manhole rehabilitation.

Project Justification and History

Wastewater manhole rehabilitation is an annual program identified as part of the Comprehensive Water and Wastewater Master Plan geared towards Asset Management of existing wastewater facilities. UCPW`s facilities` will be assessed and analyzed on a yearly basis and rehabilitated based on the condition and need.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-1,136,640	0	0	0	0	0	0	-1,136,640
Total REVENUE	-1,136,640	0	0	0	0	0	0	-1,136,640
EXPENDITURES								
Construction	1,001,640	0	0	0	0	0	0	1,001,640
Design and Engineering	135,000	0	0	0	0	0	0	135,000
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	1,136,640	0	0	0	0	0	0	1,136,640
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

SCADA Master Plan - Wastewater

Project Detail

Wastewater Rehabilitation and Replacement

Project Scope

This project will develop a master plan for the replacement of the existing Wastewater SCADA System that will identify an implementation strategy for the next 5 years.

Project Justification and History

As system growth continues so does the importance of operating the utility as efficiently as possible, and making use of staff resources and software tools to support operational strategies. The existing SCADA system is proprietary equipment and has operational limitations, therefore the renewal and replacement of the existing SCADA system is needed to upgrade our collection of data communication and provide for a more intelligent network.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	0	-300,000	-500,000	-515,000	-530,000	-545,000	0	-2,390,000
Total REVENUE	0	-300,000	-500,000	-515,000	-530,000	-545,000	0	-2,390,000
EXPENDITURES								
Construction	0	0	500,000	515,000	530,000	545,000	0	2,090,000
Design and Engineering	0	300,000	0	0	0	0	0	300,000
Total EXPENDITURES	0	300,000	500,000	515,000	530,000	545,000	0	2,390,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Tallwood WWTP Replacement

Project Detail

Wastewater Rehabilitation and Replacement

Project Scope

Project provides for the replacement of existing Tallwood Wastewater Treatment Plant.

Project Justification and History

Wastewater rehabilitation and replacement is an annual program identified as part of the Comprehensive Water and Wastewater Master Plan geared towards Asset Management of existing wastewater facilities. Replacement of the Tallwood WWTP is active project to be completed before FY 2014. The poor condition of the existing plant increased concerns of failure prompting the replacement.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-2,454,960	0	0	0	0	0	0	-2,454,960
Total REVENUE	-2,454,960	0	0	0	0	0	0	-2,454,960
EXPENDITURES								
Construction	2,122,000	0	0	0	0	0	0	2,122,000
Design and Engineering	332,960	0	0	0	0	0	0	332,960
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	2,454,960	0	0	0	0	0	0	2,454,960
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Grassy Branch WWTP

Project Detail

Wastewater Rehabilitation and Replacement

Project Scope

Project provides for the annual wastewater rehabilitation program. Included as a priority according to UCPW Operations for FY '14 is to perform a study on the Grassy Branch WWTP accessing treatability issues, age, efficiency, etc.

Project Justification and History

Wastewater rehabilitation and replacement is an annual program identified as part of the Comprehensive Water and Wastewater Master Plan geared towards Asset Management of existing wastewater facilities. UCPW`s facilities` will be assessed and analyzed on a yearly basis and rehabilitated based on the condition and need.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-550,000	0	0	0	0	0	0	-550,000
Total REVENUE	-550,000	0	0	0	0	0	0	-550,000
EXPENDITURES								
Construction	500,000	0	0	0	0	0	0	500,000
Design and Engineering	50,000	0	0	0	0	0	0	50,000
Total EXPENDITURES	550,000	0	0	0	0	0	0	550,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Olde Sycamore WWTP Improvements

Project Detail

Wastewater Rehabilitation and Replacement

Project Scope

Project provides for the annual wastewater rehabilitation program. Included as a priority according to UCPW Operations for FY '14 is to perform a study on the Olde Sycamore WWTP accessing treatability issues, age, efficiency, etc.

Project Justification and History

Wastewater rehabilitation and replacement is an annual program identified as part of the Comprehensive Water and Wastewater Master Plan geared towards Asset Management of existing wastewater facilities. UCPW`s facilities` will be assessed and analyzed on a yearly basis and rehabilitated based on the condition and need.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-270,000	0	0	0	0	0	0	-270,000
Total REVENUE	-270,000	0	0	0	0	0	0	-270,000
EXPENDITURES								
Construction	216,000	0	0	0	0	0	0	216,000
Design and Engineering	54,000	0	0	0	0	0	0	54,000
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	270,000	0	0	0	0	0	0	270,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Water & Wastewater Master Planning

Program Detail

Program Scope

Program provides for regular updates to the Master Plans. This project will ensure that the Water and Wastewater Master Plan is updated on a five (5) year cycle. Which will provide updated project plans.

Program Operating Budget Impact

This project will have no impact to the operating budget.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-318,000	0	0	0	0	-363,000	0	-681,000
Total REVENUE	-318,000	0	0	0	0	-363,000	0	-681,000
Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
PW007 MASTER PLAN UPDATE	318,000	0	0	0	0	363,000	0	681,000
Total EXPENDITURES	318,000	0	0	0	0	363,000	0	681,000

MASTER PLAN UPDATE

Project Detail

Water & Wastewater Master Planning

Project Scope

Project provides for the regular update of the current Water & Wastewater Master Plan to reflect changes in system growth.

Project Justification and History

The Comprehensive Water and Wastewater Master Plan recommended updates on a 5 year schedule.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-318,000	0	0	0	0	-363,000	0	-681,000
Total REVENUE	-318,000	0	0	0	0	-363,000	0	-681,000
EXPENDITURES								
Design and Engineering	318,000	0	0	0	0	363,000	0	681,000
Total EXPENDITURES	318,000	0	0	0	0	363,000	0	681,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Water Rehabilitation and Replacement

Program Detail

Program Scope

Program provides for Water Rehabilitation and Replacement as an annual program identified as part of the Comprehensive Water and Wastewater Master Plan geared towards Asset Management of existing Water Infrastructure. The construction projects identified are the Hwy 84 24-inch water main relocation and the Hwy 75 Booster Pump Station rehabilitation. In addition, an annual program is underway to replace existing galvanized water lines which are inadequate and provide various hydraulic, water quality and maintenance issues.

Program Operating Budget Impact

The projects within this program will have little or no operating budget impact.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-5,400,979	-1,826,000	-2,068,000	-2,125,000	-2,183,000	-2,239,000	-1,736,000	-17,577,979
Total REVENUE	-5,400,979	-1,826,000	-2,068,000	-2,125,000	-2,183,000	-2,239,000	-1,736,000	-17,577,979

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
MW008 HWY84 24" WL Relocation	499,848	0	0	0	0	0	0	499,848
MW016 Water R&R Program	0	981,000	1,008,000	1,035,000	1,062,000	1,089,000	1,116,000	6,291,000
MW019 Galvanized Waterline Replacement	1,679,531	545,000	560,000	575,000	591,000	605,000	620,000	5,175,531
MW020 WL Replacement Austin Ch Rd/Rky Rv	1,941,000	0	0	0	0	0	0	1,941,000
MW021 Pilgrims Pride Line & Vault Replace	200,000	0	0	0	0	0	0	200,000
MW025 SCADA Master Plan - Water	0	300,000	500,000	515,000	530,000	545,000	0	2,390,000
WT043 HWY 75 BPS Rehab	1,080,600	0	0	0	0	0	0	1,080,600
Total EXPENDITURES	5,400,979	1,826,000	2,068,000	2,125,000	2,183,000	2,239,000	1,736,000	17,577,979

HWY84 24" WL Relocation

Project Detail

Water Rehabilitation and Replacement

Project Scope

Project provides for replacement and relocation of the existing 24-inch water main on Highway 84 and related improvements.

Project Justification and History

In 2008 this section of water main failed due to creek bank erosion along Highway 84 near Deal Road. This project will provide a permanent solution by replacing 400 LF of existing 24-inch main with restrained joint pipe, relocating and boring under the existing creek to eliminate future erosion issues and the installation of two 24-inch valves to minimize future disruption to existing customers.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-499,848	0	0	0	0	0	0	-499,848
Total REVENUE	-499,848	0	0	0	0	0	0	-499,848
EXPENDITURES								
Construction	447,674	0	0	0	0	0	0	447,674
Design and Engineering	52,174	0	0	0	0	0	0	52,174
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	499,848	0	0	0	0	0	0	499,848
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Water R&R Program

Project Detail

Water Rehabilitation and Replacement

Project Scope

Project provides for the annual water rehabilitation and replacement program.

Project Justification and History

Water Rehabilitation and Replacement is an annual program identified as part of the Comprehensive Water and Wastewater Master Plan geared towards Asset Management of existing Water Infrastructure.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	0	-981,000	-1,008,000	-1,035,000	-1,062,000	-1,089,000	-1,116,000	-6,291,000
Total REVENUE	0	-981,000	-1,008,000	-1,035,000	-1,062,000	-1,089,000	-1,116,000	-6,291,000
EXPENDITURES								
Construction	0	785,000	806,000	828,000	850,000	871,000	893,000	5,033,000
Design and Engineering	0	196,000	202,000	207,000	212,000	218,000	223,000	1,258,000
Total EXPENDITURES	0	981,000	1,008,000	1,035,000	1,062,000	1,089,000	1,116,000	6,291,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Galvanized Waterline Replacement

Project Detail

Water Rehabilitation and Replacement

Project Scope

Project provides for the annual galvanized waterline replacement program.

Project Justification and History

This is an annual project that will replace existing galvanized and small lines which are inadequate and provide various hydraulic, water quality and maintenance issues.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-1,679,531	-545,000	-560,000	-575,000	-591,000	-605,000	-620,000	-5,175,531
Total REVENUE	-1,679,531	-545,000	-560,000	-575,000	-591,000	-605,000	-620,000	-5,175,531
EXPENDITURES								
Construction	1,417,294	463,000	476,000	489,000	502,000	514,000	527,000	4,388,294
Design and Engineering	257,504	82,000	84,000	86,000	89,000	91,000	93,000	782,504
Other Activities	4,733	0	0	0	0	0	0	4,733
Total EXPENDITURES	1,679,531	545,000	560,000	575,000	591,000	605,000	620,000	5,175,531
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

WL Replacement Austin Ch Rd/Rky Rv

Project Detail

Water Rehabilitation and Replacement

Project Scope

Project provides for a water line replacement for portions of Austin Chaney and Rocky River Road.

Project Justification and History

Water Rehabilitation and Replacement is an annual program identified as part of the Comprehensive Water and Wastewater Master Plan geared towards Asset Management of existing Water Infrastructure.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-1,941,000	0	0	0	0	0	0	-1,941,000
Total REVENUE	-1,941,000	0	0	0	0	0	0	-1,941,000
EXPENDITURES								
Construction	1,592,600	0	0	0	0	0	0	1,592,600
Design and Engineering	348,400	0	0	0	0	0	0	348,400
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	1,941,000	0	0	0	0	0	0	1,941,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Pilgrims Pride Line & Vault Replace

Project Detail

Water Rehabilitation and Replacement

Project Scope

Project provides for Pilgrims Pride water line and vault replacement.

Project Justification and History

Water Rehabilitation and Replacement is an annual program identified as part of the Comprehensive Water and Wastewater Master Plan geared towards Asset Management of existing Water Infrastructure.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-200,000	0	0	0	0	0	0	-200,000
Total REVENUE	-200,000	0	0	0	0	0	0	-200,000
EXPENDITURES								
Construction	160,000	0	0	0	0	0	0	160,000
Design and Engineering	40,000	0	0	0	0	0	0	40,000
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	200,000	0	0	0	0	0	0	200,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

SCADA Master Plan - Water

Project Detail

Water Rehabilitation and Replacement

Project Scope

This project will develop a master plan for the replacement of the existing Water SCADA System that will identify an implementation strategy for the next 5 years.

Project Justification and History

As system growth continues so does the importance of operating the utility as efficiently as possible, and making use of staff resources and software tools to support operational strategies. The existing SCADA system is proprietary equipment and has operational limitations, therefore the renewal and replacement of the existing SCADA system is needed to upgrade our collection of data communication and provide for a more intelligent network.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	0	-300,000	-500,000	-515,000	-530,000	-545,000	0	-2,390,000
Total REVENUE	0	-300,000	-500,000	-515,000	-530,000	-545,000	0	-2,390,000
EXPENDITURES								
Construction	0	0	500,000	515,000	530,000	545,000	0	2,090,000
Design and Engineering	0	300,000	0	0	0	0	0	300,000
Total EXPENDITURES	0	300,000	500,000	515,000	530,000	545,000	0	2,390,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

HWY 75 BPS Rehab

Project Detail

Water Rehabilitation and Replacement

Project Scope

Project provides for upgrades to the existing Hwy 75 Booster Pumping Station and includes new flow monitoring, replacement of existing control valves, a new standby generator and switchgear.

Project Justification and History

This project will rehab the existing Hwy 75 Booster Pump Station and improve the water quality and pressure in the service area. Project included in the annually approved water rehabilitation and replacement program as identified in the 2011 Master Plan.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-1,080,600	0	0	0	0	0	0	-1,080,600
Total REVENUE	-1,080,600	0	0	0	0	0	0	-1,080,600
EXPENDITURES								
Construction	982,900	0	0	0	0	0	0	982,900
Design and Engineering	97,700	0	0	0	0	0	0	97,700
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	1,080,600	0	0	0	0	0	0	1,080,600
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Water Tank Rehabilitation

Program Detail

Program Scope

Program provides Water Tank Rehabilitation as an annual program identified as part of the Comprehensive Water and Wastewater Master Plan geared towards asset management of existing water tanks. Projects may include, but not limited to, re-application of protective coatings, cleaning and structural inspections. The first project targeted for rehabilitation is the Marshville water tank.

Program Operating Budget Impact

The projects within this program will have little or no operating budget impact.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-957,000	0	0	-345,000	0	0	-372,000	-1,674,000
Total REVENUE	-957,000	0	0	-345,000	0	0	-372,000	-1,674,000
Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
WT054 Marshville Water Tank Rehab	639,000	0	0	0	0	0	0	639,000
WT063 Water Tank Rehabilitation	318,000	0	0	345,000	0	0	372,000	1,035,000
Total EXPENDITURES	957,000	0	0	345,000	0	0	372,000	1,674,000

Marshville Water Tank Rehab

Project Detail

Water Tank Rehabilitation

Project Scope

Project provides for storage tank rehabilitation.

Project Justification and History

Storage Tank Rehabilitation is an annual program identified as part of the Comprehensive Water and Wastewater Master Plan geared towards Asset Management of existing Water Tanks. Projects may include, but not limited to, re-application of protective coatings, cleaning and structural inspections. Existing Marshville Water Tank is the first project targeted for rehabilitation.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-639,000	0	0	0	0	0	0	-639,000
Total REVENUE	-639,000	0	0	0	0	0	0	-639,000
EXPENDITURES								
Construction	550,000	0	0	0	0	0	0	550,000
Design and Engineering	89,000	0	0	0	0	0	0	89,000
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	639,000	0	0	0	0	0	0	639,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Water Tank Rehabilitation

Project Detail

Water Tank Rehabilitation

Project Scope

Project provides for the rehabilitation and improvements to existing elevated storage tanks and other necessary improvements.

Project Justification and History

Storage Tank Rehabilitation is an annual program identified as part of the Comprehensive Water and Wastewater Master Plan geared towards Asset Management of existing Water Tanks. Projects may include, but not limited to, re-application of protective coatings, cleaning and structural inspections.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
Utility Pay Go	-318,000	0	0	-345,000	0	0	-372,000	-1,035,000
Total REVENUE	-318,000	0	0	-345,000	0	0	-372,000	-1,035,000
EXPENDITURES								
Construction	254,000	0	0	276,000	0	0	298,000	828,000
Design and Engineering	64,000	0	0	69,000	0	0	74,000	207,000
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	318,000	0	0	345,000	0	0	372,000	1,035,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Yadkin River Water Supply

Program Detail

Program Scope

Program provides for the initial efforts to increase the long-term water supply. The 2011 Master Plan identified several long-term water supply alternative scenarios to meet expected future water demands through 2040. Due to the lack of an adequate water supply source within Union County’s borders, all of the alternative scenarios require a new Inner Basin Transfer (IBT) certificate from the Yadkin-Pee Dee River Basin and additional IBT from Catawba River Basin. In an effort to leverage usage of the CRWTP for maximum available supply, additional water needs to be permitted for IBT within both the Catawba and Yadkin basins.

Program Operating Budget Impact

The projects with the YRWSP program will have significant operating budget impacts. We could expect the costs associated with the water treatment plant to be approximately .68 per thousand gallons produced. With a 4MGD capacity, our costs would be about one million dollars a year (in today’s dollars).

The YRWSP program is primarily funded from the issuance of Revenue Bonds of \$157,435,000 in FY 2019. The maximum annual debt service impact for this issuance will be \$12,704,000 beginning in FY 2020 and will retire in twenty years.

Program Resource Summary

Program Funding	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2019 Water and Wastewater Rev Bonds	0	0	-5,600,000	-11,500,000	-118,935,000	-21,400,000	0	-157,435,000
Utility Pay Go	-4,369,510	0	0	0	0	0	0	-4,369,510
Total REVENUE	-4,369,510	0	-5,600,000	-11,500,000	-118,935,000	-21,400,000	0	-161,804,510

Program Projects	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURES								
UT011 Yadkin Distribution System Improvements	0	0	0	0	1,600,000	21,400,000	0	23,000,000
WP005 Yadkin Water Supply	4,369,510	0	5,600,000	11,500,000	117,335,000	0	0	138,804,510
Total EXPENDITURES	4,369,510	0	5,600,000	11,500,000	118,935,000	21,400,000	0	161,804,510

Yadkin Distribution System Improvements

Project Detail

Yadkin River Water Supply

Project Scope

Project provides for various system improvements within Union County's existing distribution system to adequately deliver the required capacity from the new water treatment plant. Projects include additional booster pumping stations and large transmission mains.

Project Justification and History

The 2011 Master Plan identified the need for a long term water supply from the Yadkin River Basin. This project will create the needed infrastructure to supplement the new Water Treatment Plant.

Project Resource Summary

Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2019 Water and Wastewater Rev Bonds	0	0	0	0	-1,600,000	-21,400,000	0	-23,000,000
Total REVENUE	0	0	0	0	-1,600,000	-21,400,000	0	-23,000,000
EXPENDITURES								
Construction	0	0	0	0	0	20,000,000	0	20,000,000
Design and Engineering	0	0	0	0	1,600,000	1,400,000	0	3,000,000
Land Acquisition	0	0	0	0	0	0	0	0
Total EXPENDITURES	0	0	0	0	1,600,000	21,400,000	0	23,000,000
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Yadkin Water Supply

Project Detail

Yadkin River Water Supply

Project Scope

Project provides for the Catawba Inter Basin Transfer Permit Expansion to 13.5 MGD, Yadkin IBT/FERC Permitting and the design of a new raw water supply system and water treatment plant to provide additional water supply. Construction of new facilities is

Project Justification and History

The 2011 Master Plan identified several long term water supply alternative scenarios to meet expected future water demands (to 2040). Due to the lack of an adequate water supply source within Union County's borders, all of the alternative scenarios require a new IBT certificate from the Yadkin-Pee Dee River Basin and additional IBT from Catawba River Basin. To leverage the use of the CRWTP for the maximum amount of supply available while balancing against an eastern water supply strategy, additional water needs to be permitted for IBT within both the Catawba and Yadkin basins.

Project Resource Summary

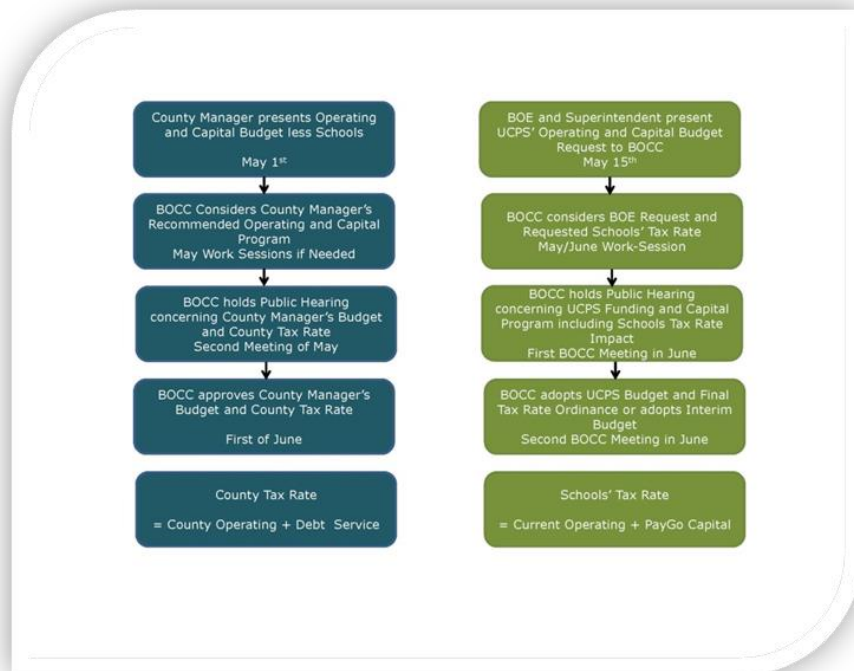
Project Phase	Project To-Date Appropriation	Adopted FY 2016	Unappropriated Planning Years					Total
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
REVENUE								
FY 2019 Water and Wastewater Rev Bonds	0	0	-5,600,000	-11,500,000	-117,335,000	0	0	-134,435,000
Utility Pay Go	-4,369,510	0	0	0	0	0	0	-4,369,510
Total REVENUE	-4,369,510	0	-5,600,000	-11,500,000	-117,335,000	0	0	-138,804,510
EXPENDITURES								
Construction	0	0	0	0	117,335,000	0	0	117,335,000
Design and Engineering	4,144,510	0	2,800,000	8,625,000	0	0	0	15,569,510
Land Acquisition	0	0	2,800,000	2,875,000	0	0	0	5,675,000
Other Activities	225,000	0	0	0	0	0	0	225,000
Total EXPENDITURES	4,369,510	0	5,600,000	11,500,000	117,335,000	0	0	138,804,510
Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

Union County Public Schools

The budget process for the County deliberation of the Union County Public Schools is separated from the County services, Emergency Medical Services, and Volunteer Fire Departments budget processes.

The adopted countywide tax rate is broken down into four parts for budget and tracking purposes, thereby focusing the budget process on these key principles:

- Foster an Environment of Cooperation
- Foster an Environment of Transparency
- Foster an Environment of Communication and Openness
- Foster an Environment of Trust
- Foster an Environment of Fairness
- Foster a Public Dialogue with the Board of Education Concerning UCPS' Funding
- Foster a Dialogue with the Public Concerning UCPS' Funding



These principles lay a foundation for goals in the process. The process works to:

- Ensure Transparency and Communication
- Ensure Fiscal Sustainability
- Ensure a Public Dialogue Concerning UCPS' Funding
- Ensure County Services' Funding Needs Receive Due Consideration
- Ensure UCPS' Funding Needs Receive Due Consideration
- Ensure the Residents are Heard
- Ensure Adherence to General Statutes
- Ensure Regular Communication Between the Board of Education and the Board of County Commissioners

As the graphic indicates, the process runs parallel to the County's process and meets the goals established for the deliberation process.

Based upon the work sessions and public hearings, the Board of County Commissioners established the tax rate for County Operations, to include EMS and Volunteer Fire Departments. As allowed for in G.S. 153A-149(b)(7), the BOCC also established a separate tax rate "to provide for the County's share of the cost of kindergarten, elementary, secondary, and post-secondary public education."

Union County Public Schools' Funding

On May 15, 2015, the Board of County Commissioners received the Board of Education's (BOE) request for FY 2016 UCPS funding.

During the May 18, 2015, Board of County Commissioners meeting the BOCC requested a joint meeting with the BOE to discuss the specific components of the request as well as and to ask questions to better understand the needs of the school system. This meeting did not occur prior to the adoption of the budget on June 29, 2015.

The County Manager and County Staff reviewed the UCPS request and analyzed specific components based on the County's understanding. In the absence of the public dialogue some assumptions were made and are reflected in the adopted budget for UCPS.



While there are various components to the Board of Education's request, based on "The Uniform and Interim Budget: Summary of Revenues and Expenditures", the BOE's request for local funding was a total of \$293.2 million. It is worth noting however that based on the full document; it appears that the total local funding request could have been as much as \$497.2 million. These requested amounts included both current expense and capital outlay amounts.

The BOE requested \$19.8 million for capital maintenance, an increase of \$254,442 or about 1.3 percent.

The capital maintenance request covered a number of projects, but primarily broke down as follows:

	FY 2016 BOE Request
Roofing Projects	\$ 9,970,105
Unspecified Maintenance Capital Outlay	2,000,000
Other Projects	2,457,649
Benton Heights Renovations	1,891,623
IP Camera Replacement	1,307,250
IT/Transportation Funding	1,000,000
Benton Heights Roofing Project	543,600
Unspecified Scope/Market Driven Adjustments	615,797
Total	\$ 19,786,024

**Benton Heights Roofing Project was funded through FY 2015 Budget Amendment.

In addition to the capital maintenance portion, the BOE has included estimated "Brick and Mortar" projects to be included in a bond referendum. It is anticipated that the BOE will request a \$158 million general obligation bond referendum no later than December 2015. Assuming the passage of the referendum, there would be an increase of about \$15.8 million annually for debt service.

Assuming all of these to be the case, the eventual tax necessary to fund the request is about 61 cents, an increase of 33.6 percent from FY 2015's schools tax of 45.5 cents. This translates to an additional cost of about \$280 annually for a tax payer with a \$200,000 home and a \$9,500 car.

Adopted FY 2016 UCPS Local Capital Funding

Capital Funding

In addition to the current expense funding, it appears that the BOE requested \$177,436,024 of capital funding. Based on the presentations made it appears the request includes \$19,786,024 of capital maintenance and \$157,650,000 of brick and mortar projects as a possible 2016 bond election.

Concerning the \$157.65 million, it is recommended that the joint working group be reconvened when the latest demographic study is complete concerning school population growth and the specific areas this will occur. It is recommended that the charge to the working group be to evaluate the individual projects and ultimately make project recommendations to the Board of Education and the Board of County Commissioners.

It is not recommended that any funds be expended on the possible bond projects until a referendum is passed.

The adopted FY 2016 capital funding is a total of \$16,626,627. The amount is funded through 5.82 cents or \$13,427,754 of the Schools' Tax and \$3,198,873 of the rate smoothing reserve and fund balance.

The \$16,626,627 of funding is adopted for the following areas:

- \$9,970,105 for roofing projects.
- \$2,457,649 for structural, mechanical and site improvement projects.
- \$1,891,623 for Benton Heights Renovations.
- \$1,307,250 for IP Security Cameras.
- \$1,000,000 for technology and transportation needs.

Included in the request, but not recommended for funding was a \$543,600 request for roofing at Benton Heights, which was funded in FY 2015 through the County's capital project ordinance (CPO) #170.

Also included in the request were two unspecified projects; one for ongoing preventive maintenance capital outlay of \$2,000,000 and scope and/or market



adjustments of \$615,797. These two projects were viewed as contingent projects and as such the recommended funding for increased teacher supplements was a higher priority.

In addition these funds have been appropriated by school and separated between roofing projects and other projects as shown in *UCPS Capital Program schedule* in the schedule on the following pages.

For contingent needs that arise during the year, the County Manager is authorized to approve cumulative transfers of up to ten percent between projects. If there is a greater need, the BOE may request the transfers from existing projects be placed on the next Board of County Commissioners meeting agenda.

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UCPS Capital Program

Projects

Program Sources & Uses	Appropriation -to-Date	Adopted FY 2016	Total Appropriation
REVENUE			
General Pay Go	(42,771,588)	(16,626,627)	(59,398,215)
Total Sources	(42,771,588)	(16,626,627)	(59,398,215)
EXPENDITURES			
Buses	84,444	-	84,444
Capital Outlay Alloc - FY2011	1,303,552	-	1,303,552
Capital Outlay Alloc - FY2013	4,000,000	-	4,000,000
Capital Outlay FY 2014 PHS Stadium	1,742,334	-	1,742,334
Capital Outlay FY 2014 Safety/Security	1,026,875	-	1,026,875
Capital Outlay FY 2014 Fac, IT, ADA	230,791	-	230,791
Capital Outlay FY 2014 Additional	5,357,859	-	5,357,859
Benton Heights Roof Repair	1,048,699	-	1,048,699
East Union Middle Roof Repair	326,970	-	326,970
Forest Hillls High Roof Repair	406,485	-	406,485
Hemby Bridge Elementary Roof Repair	299,090	-	299,090
Indian Trail Elementary Roof Repair	355,065	-	355,065
Marshville Elementary Roof Repair	425,685	-	425,685
Monroe High Roof Repair	300,050	-	300,050
Monroe Middle Roof Repair	152,450	-	152,450
New Salem Elementary Roof Repair	210,640	-	210,640
Piedmont Middle Roof Repair	34,950	-	34,950
Piedmont High Roof Repair	144,260	-	144,260
Parkwood High Roof Repair	551,503	-	551,503
Parkwood Middle Roof Repair	1,264,350	-	1,264,350
Sun Valley High Roof Repair	503,200	-	503,200
Sun Valley Middle Roof Repair	928,500	-	928,500
South Providence Roof Repair	430,000	-	430,000
Technical Services Roof Repair	153,870	-	153,870
Unionville Elementary Roof Repair	31,236	-	31,236
Walter Bickett Education Center Roof	651,950	-	651,950
Wesley Chapel Elementary Roof	4,000	-	4,000
Weddington Middle/Elementary Roof	332,109	-	332,109
Wingate Elementary Roof Repair	670,125	-	670,125

Union County, NC Adopted FY 2016 Operating and Capital Budget

UCPS Capital Program			Projects
Program Sources & Uses	Appropriation -to-Date	Adopted FY 2016	Total Appropriation
Western Union Elementary Roof	281,408	-	281,408
Roofing Audits	72,000	-	72,000
Capital Outlay FY 2015	19,069,779	-	19,069,779
Technology	377,359	-	377,359
<i>FY 2016 Capital Outlay</i>			
Capital Outlay FY 2016	-	2,457,649	2,457,649
Benton Heights Renovations	-	1,891,623	1,891,623
IP Security Cameras	-	1,307,250	1,307,250
Technology and Transportation	-	1,000,000	1,000,000
<i>FY 2016 Roofing Projects</i>			
Antioch Roof Repair FY 2016	-	324,220	324,220
CATA Roof Repair FY 2016	-	277,650	277,650
Fairview Roof Repair FY 2016	-	370,370	370,370
Forest Hills Roof Repair FY 2016	-	12,200	12,200
Kensington Roof Repair FY 2016	-	350,000	350,000
Marvin Elementary Roof Repair FY 2016	-	421,750	421,750
New Salem Roof Repair FY 2016	-	140,890	140,890
New Town Roof Repair FY 2016	-	400,000	400,000
Piedmont High Roof Repair FY 2016	-	326,625	326,625
Porter Ridge Elementary Roof Repair FY 2016	-	350,000	350,000
Porter Ridge High Roof Repair FY 2016	-	1,833,120	1,833,120
Prospect Roof Repair FY 2016	-	666,285	666,285
Rea View Roof Repair FY 2016	-	350,000	350,000
Rock Rest Roof Repair FY 2016	-	350,000	350,000
Sandy Ridge Roof Repair FY 2016	-	350,000	350,000
Unionville Roof Repair FY 2016	-	609,000	609,000
Walter Bickett Education Roof Repair FY 2016	-	307,650	307,650
Walter Bickett Elementary Roof Repair FY 2016	-	350,000	350,000
Weddington High Roof Repair FY 2016	-	636,945	636,945
Wesley Chapel Roof Repair FY 2016	-	83,500	83,500
Western Union Roof Repair FY 2016	-	1,002,900	1,002,900
Wingate Roof Repair FY 2016	-	257,000	257,000
Wolfe Roof Repair FY 2016	-	200,000	200,000
Total Projects	42,771,588	16,626,627	59,398,215