

# PROPOSED FY 2014-2019 Union County Capital Improvement Program

Union County, North Carolina, Finance Department

*Planned  
Progress*





# Proposed FY 2014-2019 Union County Capital Improvement Program

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## Executive Summary

The Proposed FY 2014-2019 Union County Capital Improvement Program (UCCIP) is made up of four specific components and totals a recommended \$616.2 million during the six-year plan.

drinking water, human services, parks and recreation, education, or libraries, the plan reflects a long-term capital program that address those needs.

	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Program Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
Education Capital Program	\$ -	3,000,000	3,000,000	3,000,000	11,426,079	25,704,651	3,000,000	49,130,730
General Capital Program	7,517,176	37,752,555	693,768	745,560	21,070,914	71,171,570	0	138,951,543
Public Works Capital Program	42,227,602	61,323,330	39,338,200	101,410,200	18,144,400	117,070,500	48,593,084	428,107,316
<b>Total Capital Program</b>	<b>\$49,744,778</b>	<b>102,075,885</b>	<b>43,031,968</b>	<b>105,155,760</b>	<b>50,641,393</b>	<b>213,946,721</b>	<b>51,593,084</b>	<b>616,189,589</b>

- **Debt Program** - The debt program provides an overview of the County's outstanding debt as well as a detailed analysis of each issuance.
- **Education Capital Program** – The Education Capital Program provides the six-year capital program that includes projects recommended for the Union County Public Schools and for the South Piedmont Community College.
- **General Capital Program** – The General Capital Program provides the six-year capital program for non- enterprise fund, County projects.
- **Public Works Capital Program** – The Public Works Capital Program provides the six-year capital program for the Water and Wastewater Utility and the Solid Waste Program.

- **Balance** – The UCCIP provides a balanced approach, not just financially, but in services. The program reflects all service aspects of the County.

### How to Read the Document

As mentioned before the document is divided into sections, each tabbed separately.

The first tab, the “Executive Summary”, includes a high level narrative summary of the remaining document, the “Program Summary” from each of the sections, and the adopted “Union County Capital Improvement Program Management Policy”.

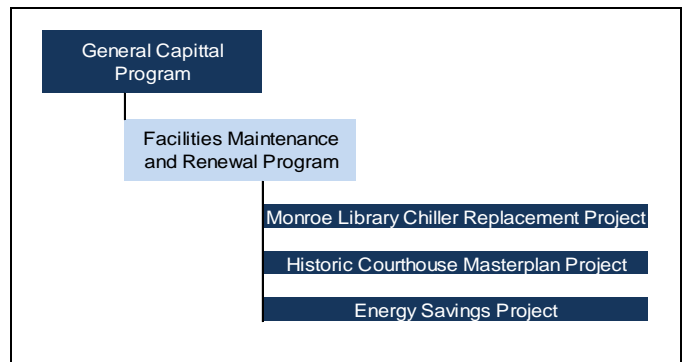
The second tab, “Debt Program” includes a discussion of the County's current debt and amortization, the proposed new debt, and the related ratios. In addition, this tab includes the proposed “Debt Policy” for adoption with the FY 2014-2019 Union County Capital Improvement Program.

The remaining tabs, specifically outline each of the proposed capital programs. Included is a narrative discussion of the proposed program and related costs, the “Program Summary”, and the program and project detail.

### Program Concepts

The Proposed UCCIP was developed with several core concepts as the foundation:

- **Fiscal Sustainability** – The Board of County Commissioners on numerous occasions has stated that fiscal sustainability is one of their core values. As such the program provided is reflective of that value and is centered on the affordability of the projects.
- **Stewardship** – The UCCIP is focused on maintaining the existing assets for the County. The proposed program reflects a significant ongoing investment in the maintenance and renewal.
- **Changing Service Dynamics** – The programs included in the UCCIP address the changing service needs of the residents during the next six-year period. Whether those needs are for additional



The capital program is made up of individual programs, and in turn each program is made up of individual projects. The program and project detail pages provide the program detail first, with a listing of proposed revenues, expenditures, and a listing of the projects that make up the program.

The project detail pages follow the program detail and provide project specific scopes, revenues, and expenditures.

It is important to note, that unless otherwise stated, all program totals reflect the total for the six-year plan, not an individual year.

## Debt Program

The County borrows funds through the use of various debt instruments; typically general obligation bonds, installment financings (certificates of participation (COP's), limited obligation bonds (LOB's), etc.), revenue bonds, and N.C. Clean Water Revolving Loans (NC CWRL). Principal and interest debt service requirements are appropriated for all debt in the annual operating budget(s).

General obligation bonds are collateralized by the full faith, credit and taxing power of the County. Certifications regarding restrictions, covenants, budget data and financial disclosure are required to be reported on an annual basis for general obligation debt. Currently, there is no outstanding authorized and unissued referendum approved general obligation debt.

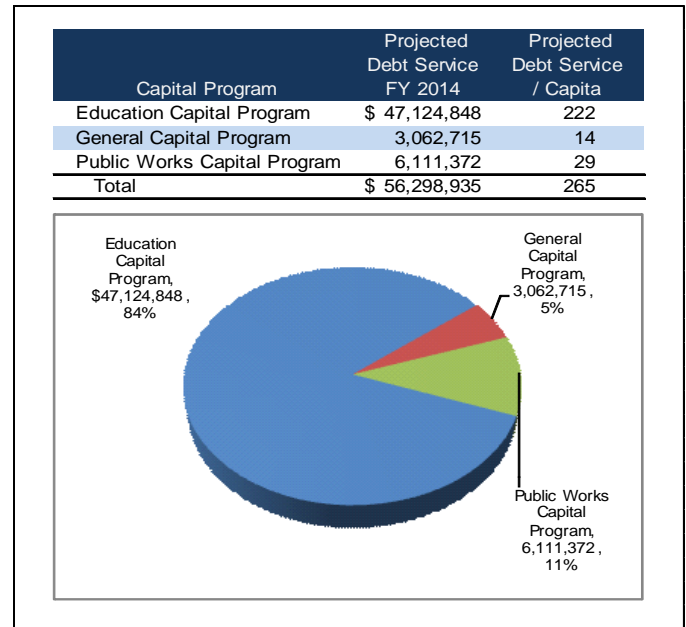
Installment financings are usually collateralized by the assets financed and are not secured by the taxing power of the County. However, installment financings require the County to follow customary covenants including providing insurance certificates, budget data and financial disclosure on an annual basis.

Revenue bonds are secured by the pledge of net revenues derived from the water and sewer system, and require the County to follow the requirements of the revenue bond debt indentures.

The County currently operates under indentures with U.S. Bank National Association as trustee. The Indentures authorize and secure all outstanding revenue bonds of the County's water and sewer system and contain several financial and operating covenants including rates, additional bonds, reserve funds, annual budgets, maintenance of the system and insurance. The County was in compliance with all such covenants during the fiscal year ended June 30, 2012. The covenants are tested retrospectively annually during the audit process.

The County has two outstanding N.C. Clean Water Revolving Loans (NC CWRL) provided by the North Carolina Clean Water Revolving Loan and Grant Fund. The loans are payable over 20 years, secured by the net revenues of the water and sewer system and contain financial and operating covenants. The County was in compliance with all such covenants as of June 30, 2012. The covenants are tested retrospectively annually during the audit process

The County has been prudent in its use of debt funds through the years. The County's total proposed debt service per capita, in FY 2014, is estimated to be \$265. This is comprised of \$222 for education capital program, \$29 for public works capital program, and \$14 for the general capital program.



In accordance with the provisions of the State Constitution and The Local Government Bond Act, as amended, allowing for issuance of all presently authorized bonds, the County has the statutory capacity to incur additional net debt in an approximate amount of \$1,373,524,913, the legal debt margin, as of June 30, 2012. This debt analysis does not include operating leases or other County leases as they are typically secured by the purchased asset.

## Credit Ratings

As part of the recent refunding process, the County's credit ratings were affirmed as follows:

Debt Type	Moody's	Standard & Poor's	Fitch
GO Bonds	Aa1	AA	AA+
Revenue Bond	Aa2	AA-	AA





**County Wide Debt**

Fiscal Year	Principal	Interest	Total
FY2013	\$ 34,767,871	22,370,320	57,138,192
FY2014	35,412,517	20,886,418	56,298,935
FY2015	36,263,527	19,592,150	55,855,677
FY2016	39,570,956	22,617,943	62,188,900
FY2017	39,704,861	21,457,766	61,162,627
FY2018	52,511,602	34,985,192	87,496,794
FY2019	52,303,633	33,562,648	85,866,281
FY2020	50,880,000	31,548,376	82,428,376
FY2021	46,625,000	29,375,346	76,000,346
FY2022	46,975,000	27,322,563	74,297,563
FY2023	47,690,000	25,212,733	72,902,733
FY2024	45,395,000	23,140,507	68,535,507
FY2025	45,855,000	21,092,569	66,947,569
FY2026	45,640,000	19,167,179	64,807,179
FY2027	44,505,000	17,215,878	61,720,878
FY2028	44,850,000	15,299,274	60,149,274
FY2029	44,090,000	13,312,491	57,402,491
FY2030	40,215,000	11,462,922	51,677,922
FY2031	37,605,000	9,658,515	47,263,515
FY2032	33,905,000	7,965,649	41,870,649
FY2033	31,790,000	6,442,823	38,232,823
FY2034	27,820,000	4,917,837	32,737,837
FY2035	27,560,000	3,542,000	31,102,000
FY2036	20,875,000	2,164,000	23,039,000
FY2037	21,615,000	1,120,250	22,735,250
FY2038	385,000	39,500	424,500
FY2039	405,000	20,250	425,250
<b>Total</b>	<b>\$ 995,214,967</b>	<b>445,493,099</b>	<b>1,440,708,066</b>

Currently, 84 percent of the County's outstanding debt is comprised of the education capital program debt, while 12 percent is public works capital program debt, and 4 percent is general capital program debt. The outstanding debt per capita is \$2,118 for the education capital program, \$294 for the public works capital program and \$106 for the general capital program.

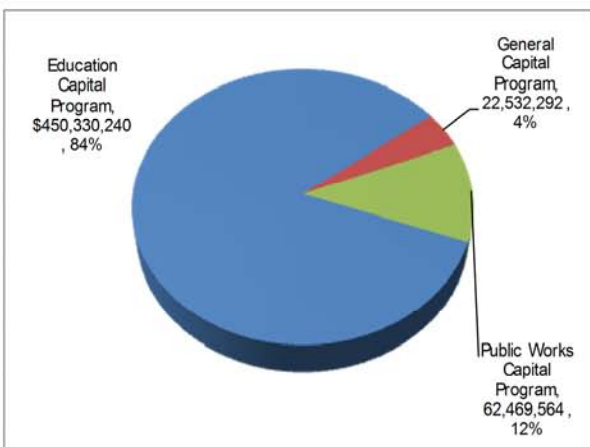
Tax Supported Debt Service	Projected Debt Service FY 2014	Projected Debt Service / Tax Penny
Education Capital Program	\$ 47,124,848	20.25
General Capital Program	3,062,715	1.32
<b>Total</b>	<b>\$ 50,187,563</b>	<b>21.57</b>

Debt for the education capital program and the general capital program is ad valorem tax supported debt. The number of ad valorem pennies that it takes to support the debt service for the education capital program for FY 2014 is projected to be 20.25 pennies and for the general capital program, 1.32 pennies.

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The table indicates, the County's debt service reaches its highest point in FY 2018, due to the timing of various principal and interest payments and proposed new debt service for the education capital program (\$31.1 million), the general capital program (\$90.9 million), and the public works capital program (\$303.1 million by FY 2020). After FY 2018, the debt service begins to decline significantly through the remaining period. Within fourteen years after FY 2018, the County's debt service will be half of what it is proposed for FY 2018.

Capital Program	Projected Outstanding at June 30, 2013	Projected Outstanding Debt / Capita
Education Capital Program	\$ 450,330,240	2,118
General Capital Program	22,532,292	106
Public Works Capital Program	62,469,564	294
<b>Total</b>	<b>\$ 535,332,096</b>	<b>2,518</b>





## Education Capital Program

The ECP includes one program and six projects.

The proposed ECP provides \$3 million annually for UCPS projects as an ongoing capital program. The largest portion of the UCPS projects proposed during the six-year program are the School Site Safety/Security projects, with about \$8.3 million proposed, about \$1.4 million annually.

Education Capital Six-Year Program	Program Total
<b>ECP Proposed Projects</b>	
ADA Compliance	\$ 697,890
School Site Safety/Security	8,299,056
SPCC Multipurpose Building	22,704,651
SPCC Center for Technology and Allied Health	8,426,079
Technology Equipment & Infrastructure Replacement	3,593,904
Structural Renovations	5,409,150
<b>Total System Expansion Programs</b>	<b>\$ 49,130,730</b>

In addition to the school safety project, the proposed ECP includes \$900,000 annually for structural repairs and renovations, \$600,000 annually for technology upgrades, and \$116,000 annually for ADA Compliance.

The proposed ECP is based upon their one-year capital request as approved by the Union County Board of Education on March 5, 2013. To accommodate the County's financial constraints, the one-year program was broken into three years and carried through the end of the six-year program.

The two SPCC projects, in contrast to the UCPS projects, are focused on facility development and renovation and a new facility. Included in the proposed ECP is \$31.1 million for the renovations and expansion to create the SPCC Center for Technology and Allied Health and the new SPCC Multipurpose Facility.

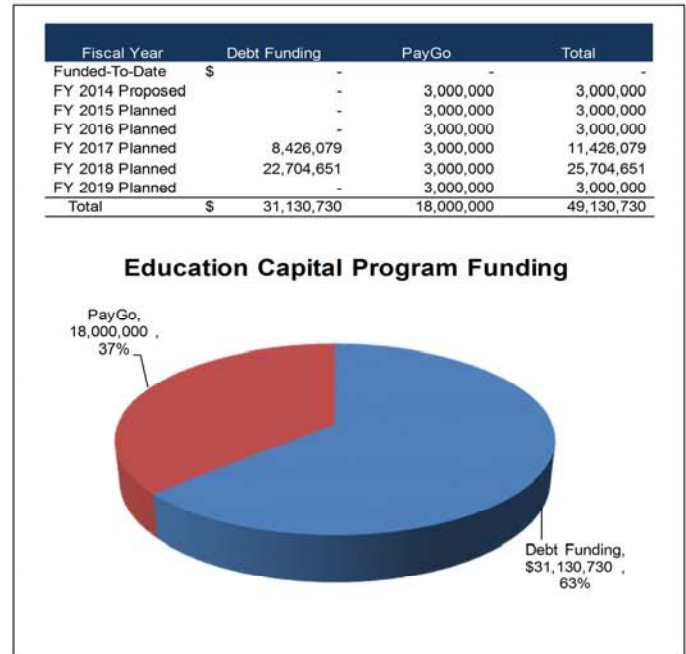
## Education Capital Funding Strategy

The proposed ECP provides funding through two sources. The proposed sources are pay-as-you-go (PayGo) and general obligation bonds (GO Bonds).

The PayGO funding plan is tied to the ongoing projects for UCPS. In recent years, there has not been an ongoing funding mechanism for these types of projects. They have primarily been funded through bond savings or other debt. Because the majority of items requested

by UCPS do not meet a cost/lifespan threshold for debt funding, a cash funding source is needed.

In addition to the types of items funded, using debt for ongoing projects is not a long-term sustainable funding plan. The recommended funding in the ECP provides a sustainable funding option.



As the table indicates, during the next three years the PayGo funding will be a mix of General Fund balance and current revenues. The goal is to fully fund the ECP with current revenues versus one-time revenues.

In addition to the merits of having an ongoing source from a fiscally sustainable perspective, having an ongoing source ensures that each year there will be capital maintenance money available for UCPS.

Fiscal Year	General Fund Balance	Current Revenue	Total PayGo
Funded-To-Date	\$ -	-	-
FY 2014 Proposed	3,000,000	-	3,000,000
FY 2015 Planned	2,000,000	1,000,000	3,000,000
FY 2016 Planned	1,000,000	2,000,000	3,000,000
FY 2017 Planned	-	3,000,000	3,000,000
FY 2018 Planned	-	3,000,000	3,000,000
FY 2019 Planned	-	3,000,000	3,000,000
<b>Total</b>	<b>\$ 6,000,000</b>	<b>12,000,000</b>	<b>18,000,000</b>

The largest source of funding proposed is the use of General Obligation Bonds (GO Bonds). Typically general obligation bonds are voted on by the residents via a referendum. It is anticipated that the recommended new GO Bonds would be no different.

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.

Given the proposed projects, and assuming a successful referendum, the total new general obligation debt for general projects would increase by about \$31.1 million. Assuming market conditions and other factors, the County's debt service would climb to \$46.2 million by FY 2018.

To provide perspective, the value of each penny in ad valorem tax for FY 2014 is anticipated to generate \$2,327,056. The new GO Bonds would generate an

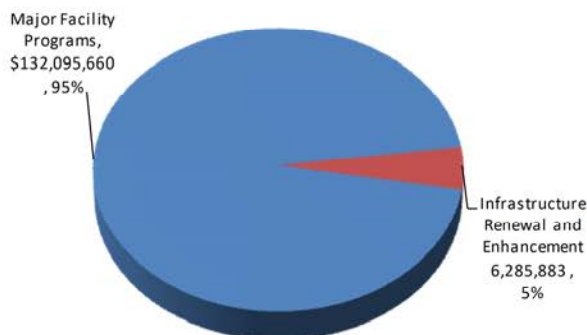
Fiscal Year	Principal	Interest	Total
Current Debt Svc.	\$ 28,271,832	19,156,293	47,428,125
FY 2014 Proposed	29,189,334	17,935,514	47,124,848
FY 2015 Planned	29,965,041	16,862,807	46,827,848
FY 2016 Planned	29,940,221	15,645,169	45,585,390
FY 2017 Planned	29,977,403	14,349,038	44,326,441
FY 2018 Planned	31,530,170	14,620,275	46,150,445
FY 2019 Planned	30,805,304	13,308,994	44,114,298
<b>Total</b>	<b>\$ 209,679,305</b>	<b>111,878,090</b>	<b>321,557,395</b>

increase of approximately 1.34 cents. It is important to note that these estimates will change based on revaluation that will occur in 2015.

## General Capital Program

Fiscal Year	Major Facility Programs	Infrastructure Renewal and Enhancement	Total
Funded-To-Date	\$ 6,723,176	794,000	7,517,176
FY 2014 Proposed	35,350,000	2,402,555	37,752,555
FY 2015 Planned	50,000	643,768	693,768
FY 2016 Planned	700,000	45,560	745,560
FY 2017 Planned	18,100,914	2,970,000	21,070,914
FY 2018 Planned	71,171,570	-	71,171,570
FY 2019 Planned	-	-	-
<b>Total</b>	<b>\$ 132,095,660</b>	<b>6,855,883</b>	<b>138,951,543</b>

### General Capital Program



The GCP consists of eleven capital programs and twenty-two specific projects. The programs proposed

focus on two specific areas, major facilities and infrastructure renewal and enhancement.

General Capital Six-Year Program	Program Total
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#### Major Facility Programs

Firearms Training and Qualifications Range	\$ 4,555,665
Human Services Campus	35,150,000
Jail and Sheriff's Office Replacement and Expansion Program	57,481,189
Jesse Helms Park Development	6,553,473
Law Enforcement Facilities Expansion and Renewal	1,000,000
Library Expansion and Development	19,955,333
Park Development and Renewal	7,400,000
<b>Total System Expansion Programs</b>	<b>\$ 132,095,660</b>

#### Infrastructure Renewal and Enhancement

Facilities Maintenance and Renewal	\$ 443,235
Human Services Automation and Record Enhancements	1,199,410
IT Infrastructure and Efficiency Enhancements	2,813,238
Tax Assessment and Administration Software Replacement	2,400,000
<b>Total System Rehabilitation and Renewal Programs</b>	<b>\$ 6,855,883</b>

The Major Facility portion of the program includes the replacement and expansion of existing buildings and facilities within the County, additional facilities, and land acquisition. The projects proposed in this group reflect the growing and changing service needs of the residents within the County.

The Infrastructure Renewal and Enhancement portion of the program includes projects that will enhance the efficiency of County operations or provide savings through significant replacement of building systems.

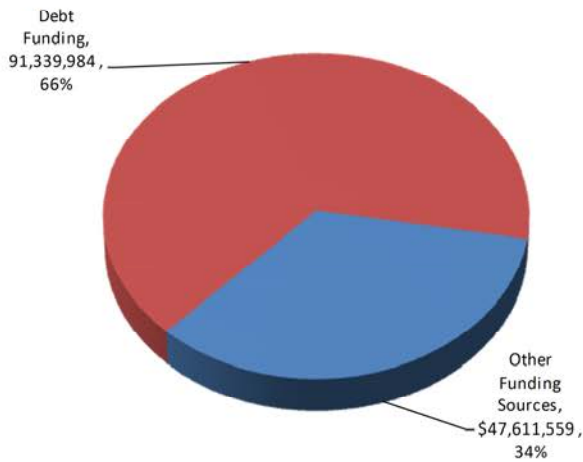




## General Capital Funding Strategy

Fiscal Year	Other Funding Sources	Debt Funding	Total
Funded-To-Date	\$ 7,049,676	467,500	7,517,176
FY 2014 Proposed	37,752,555	-	37,752,555
FY 2015 Planned	693,768	-	693,768
FY 2016 Planned	745,560	-	745,560
FY 2017 Planned	570,000	20,500,914	21,070,914
FY 2018 Planned	800,000	70,371,570	71,171,570
FY 2019 Planned	-	-	-
<b>Total</b>	<b>\$ 47,611,559</b>	<b>91,339,984</b>	<b>138,951,543</b>

### General Capital Program



Funding of the proposed GCP is provided through a number of sources, including capital reserves, new debt, general fund pay-as-you-go (PayGo), grants, and contributions from other funds.

The largest source of funding proposed is the use of General Obligation Bonds (GO Bonds). Typically general obligation bonds are voted on by the residents via a referendum. It is anticipated that the recommended new GO Bonds would be no different.

	Program Total
Capital Reserve	\$ 94,766
FY 2017 General Obligation Bonds	88,472,484
General PayGo	46,070,609
GO Bonds	467,500
Grant Funding	512,205
Installment Financing	2,400,000
Other Activities	606,479
Utility Fund Balance	327,500
<b>Total Funding</b>	<b>\$ 138,951,543</b>

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.

Given the proposed projects, and assuming a successful referendum, the total new general obligation debt for general projects would increase by about \$88.5 million. Assuming market conditions and other factors, the County's debt service would climb to \$12.4 million by the end of the six year period, in FY 2019.

Fiscal Year	Principal	Interest	Total
Current Debt Svc.	\$ 2,270,243	839,347	3,109,590
FY 2014 Proposed	2,321,251	741,464	3,062,715
FY 2015 Planned	2,358,360	661,246	3,019,606
FY 2016 Planned	2,366,926	591,290	2,958,216
FY 2017 Planned	2,613,761	630,414	3,244,175
FY 2018 Planned	7,051,432	4,980,365	12,031,797
FY 2019 Planned	7,748,329	4,663,982	12,412,311
<b>Total</b>	<b>\$ 26,730,302</b>	<b>13,108,108</b>	<b>39,838,410</b>

To provide perspective, the value of each penny in ad valorem tax for FY 2014 is anticipated to generate \$2,327,056. The new GO Bonds would generate an increase of approximately 3.8 cents. It is important to note that these estimates will change based on revaluation that will occur in 2015.

The proposed 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.

	Program Total
<b>General Obligation Bond Projects</b>	
Jail and Sheriff's Office Replacement and	\$ 55,558,444
Jesse Helms Park Development	6,553,473
Library Expansion and Development	19,860,567
Park Development and Renewal	6,500,000
<b>Total General Obligation Bond Projects</b>	<b>\$ 88,472,484</b>

In addition to the GO Bonds and Installment Financing, the proposed GCP includes the use of \$46 million of PayGo funding. The majority of the PayGo funding comes through the one-time hospital lease revenue, based on Commission direction, \$35 million of the revenue is proposed as cash funding for the Human Services Campus project. It is important to note, that as of the preparation of this plan, the County is reviewing alternative project delivery methods for the Human Services Campus. The adoption of the GCP does not preclude any of those options; however it provides a "Plan B" funding strategy.

In addition to the Human Services Facility, the Firearms Training and Qualifications Range was previously funded through \$4.5 million of PayGo and remains an open project in the GCP.





The remaining \$6.5 million of PayGo funding is recommended for smaller facility and technology enhancement projects.

The use of Utility Fund Balance is recommended as the funds contribution for the "Countywide Phone System Upgrade to VoIP" project.

## Public Works Capital Program

The proposed 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.

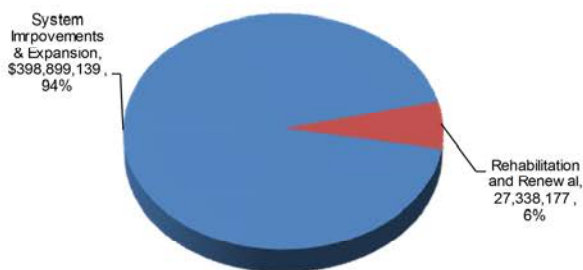
The proposed PWCP addresses the water and wastewater system needs for improvement, expansion, maintenance, rehabilitation, and renewal. The six-year plan strives to strike a balance between the system expansion needs and the ongoing maintenance needs, while ensuring the capacity and affordability of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

In addition to the water and wastewater programs, the PWCP addresses the capital needs of the County's Solid Waste System.

### Program Highlights

Fiscal Year	System I & E	System R&R	Total
Funded-To-Date	\$ 36,964,525	5,263,077	42,227,602
FY 2014 Proposed	57,002,230	4,021,100	61,023,330
FY 2015 Planned	34,524,200	4,664,000	39,188,200
FY 2016 Planned	97,533,200	3,052,000	100,585,200
FY 2017 Planned	14,335,400	3,584,000	17,919,400
FY 2018 Planned	113,470,500	3,450,000	116,920,500
FY 2019 Planned	45,069,084	3,304,000	48,373,084
<b>Total</b>	<b>\$ 398,899,139</b>	<b>27,338,177</b>	<b>426,237,316</b>

### Public Works Capital Program



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

Water and Wastewater Six-Year Program	Program Total
<b>System Improvements and Expansion</b>	
853 South Zone Improvements	\$ 14,975,600
853 West Zone Improvements	26,591,300
935 Zone Improvements	413,400
Additional Anson Capacity	14,496,200
Crooked Creek Basin Improvements	18,375,950
CRWTP Improvements	42,649,820
Developer Funded Projects	37,292,884
Eastside Wastewater Improvements	12,564,962
New 880 Pressure Zone	12,933,597
New Eastern Water Supply	129,064,010
New Lake Twitty Sewer Shed	5,301,300
Short Line Extensions	4,010,000
Town Center Sewer Development	1,959,340
Twelve Mile Creek WWTP System Improvements	67,605,400
UCPW Buildings and Improvements	10,665,376
<b>Total System Expansion Programs</b>	<b>\$ 398,899,139</b>

### System Rehabilitation and Renewal Programs

Wastewater Pump Station Improvements	\$ 3,453,700
Wastewater Rehabilitation and Replacement	11,207,960
Water & Wastewater Master Plan	530,000
Water Rehabilitation and Replacement	10,880,267
Water Tank Rehabilitation	1,266,250
<b>Total System Rehabilitation and Renewal Programs</b>	<b>\$ 27,338,177</b>

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 water total flow demand is anticipated to grow to 29.7 million gallons daily and wastewater to 14.9 million gallons daily. The proposed \$398,899,139 System I&E Program is necessary to meet these and anticipated future demands.

Rehabilitation and renewal programs are the ongoing infrastructure maintenance projects that ensure the sustainability of the existing infrastructure. The \$27,338,177 System R&R program is necessary to provide for the system needs and reflects an average annual investment of \$3.7 million during the six-year plan.





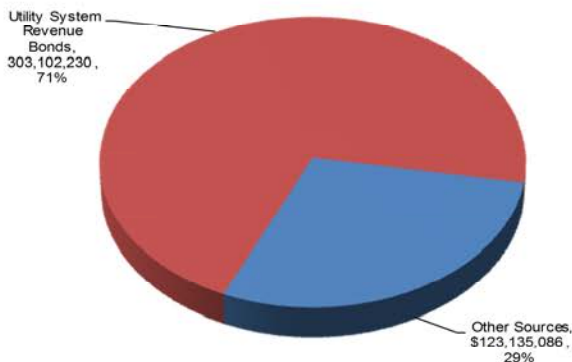
Solid Waste Rehabilitation and Renewal Six-Year Program	Program Total
General Replacement and Renewal	\$ 1,872,000
Total Solid Waste Rehabilitation and Renewal	\$ 1,872,000

Beyond the Water and Wastewater projects, the proposed PWCP includes a capital investment in the Solid Waste Program. The \$1,872,000 proposed program reflects an investment in heavy equipment for collections and use at the landfill.

### Funding Strategy

Fiscal Year	Utility Other Sources	Utility System Revenue Bonds	Total
Funded-To-Date	\$ 42,227,602	-	42,227,602
FY 2014 Proposed	11,602,900	49,420,430	61,023,330
FY 2015 Planned	12,656,400	26,531,800	39,188,200
FY 2016 Planned	5,722,500	94,862,700	100,585,200
FY 2017 Planned	4,166,400	13,753,000	17,919,400
FY 2018 Planned	4,416,000	112,504,500	116,920,500
FY 2019 Planned	42,343,284	6,029,800	48,373,084
Total	\$ 123,135,086	303,102,230	426,237,316

### Public Works Capital Program



The proposed PWCP is funded through several different sources. The primary funding, 71 percent comes through the issuance of Utility System Revenue Bonds. The proposed PWCP finance plan includes the issuance of 2015 Revenue Bonds at \$97.2 million, 2017 Revenue Bonds at \$200.6 million, 2019 Revenue Bonds at \$5.3 million for \$303,102,230 of planned total new debt for the system.

Fiscal Year	Principal	Interest	Total
Current Debt Svc.	\$ 4,225,797	2,374,681	6,600,477
FY 2014 Proposed	3,901,932	2,209,440	6,111,372
FY 2015 Planned	3,940,126	2,068,097	6,008,223
FY 2016 Planned	7,263,810	6,381,484	13,645,294
FY 2017 Planned	7,113,697	6,478,314	13,592,010
FY 2018 Planned	13,930,000	15,384,551	29,314,551
FY 2019 Planned	13,750,000	15,589,672	29,339,672
Total	\$ 54,125,360	50,486,240	104,611,600

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 \$29.3 million annually.

Revenue bond debt is proposed 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.

	Program Total
Developer Funding	\$ 41,191,404
Grant Funding	1,961,300
Utility PayGo	79,982,382
Total Funding	\$ 123,135,086

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

The PayGo funding, which comprises 65 percent of the other sources, comes through connection fees from new customers, user fees charged to customers, and capital fund balance.

The PayGo funding is primarily programmed for the ongoing system rehabilitation and renewal projects. The principal 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 maintenance needed.

Fiscal Year	PayGo
Funded-To-Date	\$ 36,367,782
FY 2014 Proposed	11,602,900
FY 2015 Planned	12,656,400
FY 2016 Planned	5,722,500
FY 2017 Planned	4,166,400
FY 2018 Planned	4,416,000
FY 2019 Planned	5,050,400
Total	\$ 79,982,382

The anticipated Developer Contributions 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.

The proposed funding for the Solid Waste Equipment is a mix of installment financing and Solid Waste fund balance. The financing tools will be refined and recommended as part of the purchase of the equipment and is dependent upon current market conditions and the fiscal health of the Solid Waste Program.

	Program Total
Installment Financing	\$ 1,270,000
Solid Waste Reserve Funds	600,000
<u>Total Funding</u>	<u>\$ 1,870,000</u>

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# Funding and Program Summary

## Education Capital Program

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>Funding Sources</b>								
FY 2017 General Obligation Bonds	0	0	0	0	-8,426,079	0	0	-8,426,079
FY 2018 General Obligation Bonds	0	0	0	0	0	-22,704,651	0	-22,704,651
General PayGo	0	-3,000,000	-3,000,000	-3,000,000	-3,000,000	-3,000,000	-3,000,000	-18,000,000
<b>Total Funding Sources</b>	<b>0</b>	<b>-3,000,000</b>	<b>-3,000,000</b>	<b>-3,000,000</b>	<b>-11,426,079</b>	<b>-25,704,651</b>	<b>-3,000,000</b>	<b>-49,130,730</b>
<b>Programs</b>								
Educational Facilities Development and Improvement	0	3,000,000	3,000,000	3,000,000	11,426,079	25,704,651	3,000,000	49,130,730
<b>Total Programs</b>	<b>0</b>	<b>3,000,000</b>	<b>3,000,000</b>	<b>3,000,000</b>	<b>11,426,079</b>	<b>25,704,651</b>	<b>3,000,000</b>	<b>49,130,730</b>

# Funding and Program Summary

## General Capital Program

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>Funding Sources</b>								
Capital Reserve Fund	-94,766	0	0	0	0	0	0	-94,766
FY 2017 General Obligation Bonds	0	0	0	0	-18,100,914	-70,371,570	0	-88,472,484
General PayGo	-6,348,431	-36,965,115	-641,503	-745,560	-570,000	-800,000	0	-46,070,609
GO Bonds	-467,500	0	0	0	0	0	0	-467,500
Grant Funding	0	-459,940	-52,265	0	0	0	0	-512,205
Installment Financing	0	0	0	0	-2,400,000	0	0	-2,400,000
Other Activities	-606,479	0	0	0	0	0	0	-606,479
Utility Fund Balance	0	-327,500	0	0	0	0	0	-327,500
<b>Total Funding Sources</b>	<b>-7,517,176</b>	<b>-37,752,555</b>	<b>-693,768</b>	<b>-745,560</b>	<b>-21,070,914</b>	<b>-71,171,570</b>	<b>0</b>	<b>-138,951,543</b>
<b>Programs</b>								
Facilities Maintenance and Renewal	20,000	177,675	200,000	45,560	0	0	0	443,235
Firearms Training and Qualifications Range	4,555,665	0	0	0	0	0	0	4,555,665
Human Services Automation and Record Management	0	1,094,880	104,530	0	0	0	0	1,199,410
Human Services Campus	150,000	35,000,000	0	0	0	0	0	35,150,000
IT Infrastructure and Efficiency Enhancements	774,000	1,130,000	339,238	0	570,000	0	0	2,813,238
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
Jesse Helms Park Development	0	0	0	0	6,553,473	0	0	6,553,473
Law Enforcement Facilities Expansion & Renewal	0	250,000	50,000	700,000	0	0	0	1,000,000
Library Expansion and Development	94,766	0	0	0	1,986,057	17,874,510	0	19,955,333
Park Development and Renewal	0	100,000	0	0	6,500,000	800,000	0	7,400,000
Tax Assessment and Administration Software Replacement	0	0	0	0	2,400,000	0	0	2,400,000
<b>Total Programs</b>	<b>7,517,176</b>	<b>37,752,555</b>	<b>693,768</b>	<b>745,560</b>	<b>21,070,914</b>	<b>71,171,570</b>	<b>0</b>	<b>138,951,543</b>

# Funding and Program Summary

## Public Works Capital Program

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>Funding Sources</b>								
Developer Funded	-3,898,520	0	0	0	0	0	-37,292,884	-41,191,404
FY 2015 Water and Wastewater Rev Bonds	0	-46,454,030	-18,751,400	-32,013,300	0	0	0	-97,218,730
FY 2017 Water and Wastewater Rev Bonds	0	-2,966,400	-7,780,400	-62,849,400	-13,753,000	-112,171,000	-1,062,000	-200,582,200
FY 2019 Water and Wastewater Rev Bonds	0	0	0	0	0	-333,500	-4,967,800	-5,301,300
Grant Funding	-1,961,300	0	0	0	0	0	0	-1,961,300
Installment Financing	0	0	0	-825,000	-225,000	0	-220,000	-1,270,000
Solid Waste Reserve Funds	0	-300,000	-150,000	0	0	-150,000	0	-600,000
Utility Pay Go	-36,367,782	-11,602,900	-12,656,400	-5,722,500	-4,166,400	-4,416,000	-5,050,400	-79,982,382
<b>Total Funding Sources</b>	<b>-42,227,602</b>	<b>-61,323,330</b>	<b>-39,338,200</b>	<b>-101,410,200</b>	<b>-18,144,400</b>	<b>-117,070,500</b>	<b>-48,593,084</b>	<b>-428,107,316</b>
<b>Programs</b>								
853 South Zone Improvements	0	412,000	1,113,000	13,450,600	0	0	0	14,975,600
853 West Zone Improvements	0	412,000	2,014,000	24,165,300	0	0	0	26,591,300
935 Zone Improvements	0	0	0	0	22,400	391,000	0	413,400
Additional Anson Capacity	188,700	3,553,200	2,183,600	2,343,500	6,227,200	0	0	14,496,200
Crooked Creek Basin Improvements	261,300	2,425,650	8,003,000	3,357,200	2,116,800	1,150,000	1,062,000	18,375,950
CRWTP Improvements	6,911,540	20,369,280	0	15,369,000	0	0	0	42,649,820
Developer Funded Projects	0	0	0	0	0	0	37,292,884	37,292,884
Eastside Wastewater Improvements	8,843,362	0	2,565,200	0	0	0	1,156,400	12,564,962
General Replacement and Renewal Projects	0	300,000	150,000	825,000	225,000	150,000	220,000	1,870,000
New 880 Pressure Zone	5,249,797	7,683,800	0	0	0	0	0	12,933,597
New Eastern Water Supply	2,249,510	0	5,119,800	5,264,700	5,409,000	111,021,000	0	129,064,010
New Lake Twitty Sewer Shed	0	0	0	0	0	333,500	4,967,800	5,301,300
Short Line Extensions	695,000	515,000	530,000	545,000	560,000	575,000	590,000	4,010,000
Town Center Sewer Development	125,940	1,833,400	0	0	0	0	0	1,959,340
Twelve Mile Creek WWTP System Improvements	9,983,100	11,588,800	12,995,600	33,037,900	0	0	0	67,605,400
UCPW Buildings & Improvements	2,456,276	8,209,100	0	0	0	0	0	10,665,376
Wastewater Pump Station Improvements	500,000	92,700	1,166,000	327,000	784,000	230,000	354,000	3,453,700
Wastewater Rehabilitation and Replacement	3,914,960	1,133,000	1,166,000	1,199,000	1,232,000	1,265,000	1,298,000	11,207,960
Water & Wastewater Master Planning	0	0	530,000	0	0	0	0	530,000
Water Rehabilitation and Replacement	794,867	2,245,400	1,484,000	1,526,000	1,568,000	1,610,000	1,652,000	10,880,267
Water Tank Rehabilitation	53,250	550,000	318,000	0	0	345,000	0	1,266,250
<b>Total Programs</b>	<b>42,227,602</b>	<b>61,323,330</b>	<b>39,338,200</b>	<b>101,410,200</b>	<b>18,144,400</b>	<b>117,070,500</b>	<b>48,593,084</b>	<b>428,107,316</b>



## Capital Improvement Program Management Policy

The Union County Board of County Commissioners, in November of 2012 adopted the Union County Capital Improvement Management Policy. The policy provides guidance to staff and the residents concerning the development of the capital improvement program.

### Objective

The purpose of the Capital Improvement Program (CIP) is to systematically identify, plan, schedule, finance, track, and monitor capital projects to ensure cost-effectiveness as well as conformance to established policies, procedures, and appropriations.

The performance and continued use of capital infrastructure is essential to delivering public services. Deferring essential maintenance and/or asset replacement can negatively impact service delivery and increase the long-term costs. As such, the County will periodically assess the condition of assets and infrastructure and appropriately plan for required major maintenance and replacement needs. Efforts will be made to allocate sufficient funds in the six-year CIP and operating budgets for condition assessment, preventative and major maintenance, and repair and replacement of critical infrastructure assets.

### Policy

- I. The CIP shall consist of all funds appropriated by the Board of County Commissioners for capital improvements either by county departments, external organizations, offices of county government, or outside agencies for which the County provides capital funding.
  - a. Capital improvement projects shall be defined as construction projects, renovation projects, property acquisition, and equipment purchases that cost at least \$100,000 and have a useful life of at least ten years.
    - i. For the purposes of the CIP, information technology projects of at least \$100,000 may be considered as capital improvement projects provided the useful life is at least five years.
    - ii. For the purposes of the CIP, fleet acquisition will be evaluated and

recommended in accordance with fleet replacement procedures.

- b. Minor capital outlay and equipment acquisition (less than \$100,000 or a useful life of less than ten years) shall be included in the operating budget.
- II. The County Manager, as the County's Budget Officer, shall annually submit a financially balanced, six-year Capital Improvement Program for review and approval by the County Commission, pursuant to the timelines established in the annual budget preparation schedule.
    - a. The CIP will be updated annually as part of the annual budget process.
    - b. The first year of the adopted CIP will be the capital budget for that year.
    - c. Submission of the CIP shall be consistent with the requirements established by North Carolina General Statutes Chapter 159.
    - d. The County Manager will develop necessary procedures and internal controls to develop and manage the implementation of the adopted CIP.
  - III. The Capital Improvement Program shall include:
    - a. A Capital Improvement Program Message that provides a statement of CIP objectives and clearly demonstrates the program's relationship to the County's operating budget proposal and strategic and master plans.
    - b. Summaries of project request and funding sources that demonstrate the six-year Capital Improvement Program is balanced.
    - c. Detailed capital project descriptions to include the following:
      - i. Scope of the project that defines or describes the project.
      - ii. Justification for the project that clearly states the need and pertinent history.
      - iii. Estimated cost by project phase.
      - iv. Estimated funding by project.
      - v. Estimated operating budget impact by budget category.
      - vi. Estimated implementation schedule that provides for the coordination of project timing, construction, and funding.
      - vii. Identification of Managing Department.



d. Schedule of proposed and existing debt requirements.

IV. Staff will monitor projects in progress to ensure their timely completion or identify needed adjustments of the CIP as approved by the Board of County Commissioners.

a. The County Manager may make necessary transfers between phases and accounts within a project, however, transfers between projects, regardless of funding source, require Board of County Commissioner approvals.

b. Within ninety-days of the completion of a capital project any remaining appropriated funds for the project will revert to the fund balance of the funding source. Expenditure of excess funds may only occur by Board of County Commission action.

c. Appropriations for capital projects lapse three years after budget adoption if there is no progress on project implementation, as determined by the County Manger and recommended to Board of County Commissioners. Projects which lapse from a lack of activity may be resubmitted for inclusion in a future capital improvement program.

V. Project expenditures and related accounting shall be in accordance with Generally Accepted Accounting Principles (GAAP), Governmental Accounting Standards Board (GASB) requirements, and other bond and legal requirements.

a. Project funding shall be in accordance with the County's Debt Policies and the North Carolina General Statutes Chapter 159.

b. The County Finance Officer will evaluate project funding and expenditures to ensure compliance and appropriate accounting in accordance with applicable policies, procedures, principles, and standards.

VI. It is anticipated that new general obligation debt funded projects shall be voted by referendum.

a. It is anticipated that new general obligation debt will be funded through increased tax rate, and that voter approval of general obligation debt represents a tacit approval of the accompanying tax rate.

b. It is anticipated that new general obligation debt matures; the associated tax rate will be reduced accordingly.



## Debt Program

The County borrows funds through the use of various debt instruments; typically general obligation bonds, installment financings (certificates of participation (COP's), limited obligation bonds (LOB's), etc.), revenue bonds, and N.C. Clean Water Revolving Loans (NC CWRL). Principal and interest debt service requirements are appropriated for all debt in the annual operating budget(s).

General obligation bonds are collateralized by the full faith, credit and taxing power of the County. Certifications regarding restrictions, covenants, budget data and financial disclosure are required to be reported on an annual basis for general obligation debt. Currently, there is no outstanding authorized and unissued referendum approved general obligation debt.

Installment financings are usually collateralized by the assets financed and are not secured by the taxing power of the County. However, installment financings require the County to follow customary covenants including providing insurance certificates, budget data and financial disclosure on an annual basis.

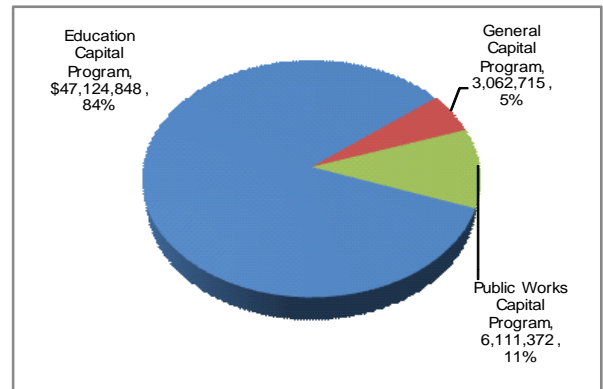
Revenue bonds are secured by the pledge of net revenues derived from the water and sewer system, and require the County to follow the requirements of the revenue bond debt indentures.

The County currently operates under indentures with U.S. Bank National Association as trustee. The Indentures authorize and secure all outstanding revenue bonds of the County's water and sewer system and contain several financial and operating covenants including rates, additional bonds, reserve funds, annual budgets, maintenance of the system and insurance. The County was in compliance with all such covenants during the fiscal year ended June 30, 2012. The covenants are tested retrospectively annually during the audit process.

The County has two outstanding N.C. Clean Water Revolving Loans (NC CWRL) provided by the North Carolina Clean Water Revolving Loan and Grant Fund. The loans are payable over 20 years, secured by the net revenues of the water and sewer system and contain financial and operating covenants. The County was in compliance with all such covenants as of June 30, 2012. The covenants are tested retrospectively annually during the audit process.

The County has been prudent in its use of debt funds through the years. The County's total proposed debt service per capita, in FY 2014, is estimated to be \$265. This is comprised of \$222 for education capital program, \$29 for public works capital program, and \$14 for the general capital program.

Capital Program	Projected Debt Service FY 2014	Projected Debt Service / Capita
Education Capital Program	\$ 47,124,848	222
General Capital Program	3,062,715	14
Public Works Capital Program	6,111,372	29
<b>Total</b>	<b>\$ 56,298,935</b>	<b>265</b>



In accordance with the provisions of the State Constitution and The Local Government Bond Act, as amended, allowing for issuance of all presently authorized bonds, the County has the statutory capacity to incur additional net debt in an approximate amount of \$1,373,524,913, the legal debt margin, as of June 30, 2012. This debt analysis does not include operating leases or other County leases as they are typically secured by the purchased asset.

### Credit Ratings

As part of the recent refunding process, the County's credit ratings were affirmed as follows:

Debt Type	Moody's	Standard & Poor's	Fitch
GO Bonds	Aa1	AA	AA+
Revenue Bond	Aa2	AA-	AA

### County Wide Debt

The following table indicates, the County's debt service reaches its highest point in FY 2018, due to the timing of various principal and interest payments and proposed new debt service for the education capital program (\$31.1 million), the general capital program (\$90.9 million), and the public works capital program (\$303.1 million by FY 2020). After FY 2018, the debt service begins to decline significantly through the remaining period. Within fourteen years after FY 2018, the County's debt service will be half of what it is proposed for FY 2018.

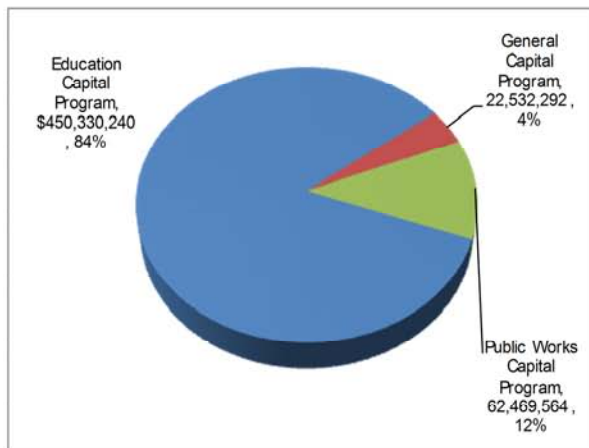




Fiscal Year	Principal	Interest	Total
FY2013	\$ 34,767,871	22,370,320	57,138,192
FY2014	35,412,517	20,886,418	56,298,935
FY2015	36,263,527	19,592,150	55,855,677
FY2016	39,570,956	22,617,943	62,188,900
FY2017	39,704,861	21,457,766	61,162,627
FY2018	52,511,602	34,985,192	87,496,794
FY2019	52,303,633	33,562,648	85,866,281
FY2020	50,880,000	31,548,376	82,428,376
FY2021	46,625,000	29,375,346	76,000,346
FY2022	46,975,000	27,322,563	74,297,563
FY2023	47,690,000	25,212,733	72,902,733
FY2024	45,395,000	23,140,507	68,535,507
FY2025	45,855,000	21,092,569	66,947,569
FY2026	45,640,000	19,167,179	64,807,179
FY2027	44,505,000	17,215,878	61,720,878
FY2028	44,850,000	15,299,274	60,149,274
FY2029	44,090,000	13,312,491	57,402,491
FY2030	40,215,000	11,462,922	51,677,922
FY2031	37,605,000	9,658,515	47,263,515
FY2032	33,905,000	7,965,649	41,870,649
FY2033	31,790,000	6,442,823	38,232,823
FY2034	27,820,000	4,917,837	32,737,837
FY2035	27,560,000	3,542,000	31,102,000
FY2036	20,875,000	2,164,000	23,039,000
FY2037	21,615,000	1,120,250	22,735,250
FY2038	385,000	39,500	424,500
FY2039	405,000	20,250	425,250
<b>Total</b>	<b>\$ 995,214,967</b>	<b>445,493,099</b>	<b>1,440,708,066</b>

Currently, 84 percent of the County's outstanding debt is comprised of the education capital program debt, while 12 percent is public works capital program debt, and 4 percent is general capital program debt. The outstanding debt per capita is \$2,118 for the education capital program, \$294 for the public works capital program and \$106 for the general capital program.

Capital Program	Projected Outstanding at June 30, 2013	Projected Outstanding Debt / Capita
Education Capital Program	\$ 450,330,240	2,118
General Capital Program	22,532,292	106
Public Works Capital Program	62,469,564	294
<b>Total</b>	<b>\$ 535,332,096</b>	<b>2,518</b>



Debt for the education capital program and the general capital program is ad valorem tax supported debt. The number of ad valorem pennies that it takes to support the debt service for the education capital program for FY 2014 is projected to be 20.25 pennies and for the general capital program, 1.32 pennies.

Tax Supported Debt Service	Projected Debt Service FY 2014	Projected Debt Service / Tax Penny
Education Capital Program	\$ 47,124,848	20.25
General Capital Program	3,062,715	1.32
<b>Total</b>	<b>\$ 50,187,563</b>	<b>21.57</b>

### Education Capital Program Debt

Over the past eighteen years, \$624.8 million of general obligation bonds and certificates of participation have been issued by the County to fund UCPS and SPCC land, facilities construction, and facilities improvements as delineated in the following table.

Type and Purpose	Issued	Original Issue Amount
GO Bonds - UCPS	June 1995	\$ 12,725,000
GO Bonds - UCPS	November 1996	11,260,000
GO Bonds - UCPS	September 1999	30,050,000
GO Bonds - UCPS	March 2001	56,700,000
COP's - UCPS	June 2003	8,436,943
COP's - SPCC	June 2003	4,448,730
GO BAN's - UCPS	Year 2004	48,265,000
GO Bonds - UCPS	June 2005	90,000,000
COP's - UCPS	November 2006	77,640,000
GO Bonds - UCPS	September 2007	220,730,000
GO Bonds - UCPS	March 2009	64,500,000
<b>Total</b>		<b>\$ 624,755,673</b>

The debt service for the outstanding portion of the \$624.8 million or approximately \$478.6 million at June 30<sup>th</sup>, 2013, will be retired by March 1<sup>st</sup>, 2033.

An additional \$31.1 million is proposed for FY 2017 for two South Piedmont Community College (SPCC) projects; the renovations and expansion to create the SPCC Center for Technology and Allied Health and the new SPCC Multipurpose Facility. The annual debt service impact of the proposed \$31.1 million is projected to begin in FY 2018 and would conclude within twenty years.

The projected FY 2018 debt service for the additional \$31.1 million would equate to approximately 1.34 pennies of the projected FY 2014 ad valorem value.

The projected existing and proposed new education capital program debt service is shown in the following table.





Fiscal Year	Principal	Interest	Total
FY2013	\$ 28,271,832	19,156,293	47,428,125
FY2014	29,189,334	17,935,514	47,124,848
FY2015	29,965,041	16,862,807	46,827,848
FY2016	29,940,221	15,645,169	45,585,390
FY2017	29,977,403	14,349,038	44,326,441
FY2018	31,530,170	14,620,275	46,150,445
FY2019	30,805,304	13,308,994	44,114,298
FY2020	29,729,353	12,004,380	41,733,733
FY2021	26,833,476	10,778,592	37,612,068
FY2022	26,756,153	9,659,057	36,415,210
FY2023	26,903,746	8,503,316	35,407,062
FY2024	24,506,377	7,405,659	31,912,036
FY2025	23,546,022	6,373,206	29,919,228
FY2026	23,556,910	5,489,692	29,046,602
FY2027	21,861,910	4,586,699	26,448,609
FY2028	21,371,910	3,754,456	25,126,366
FY2029	20,461,910	2,894,619	23,356,529
FY2030	17,800,000	2,150,101	19,950,101
FY2031	14,290,000	1,453,700	15,743,700
FY2032	9,660,000	913,250	10,573,250
FY2033	6,555,000	588,750	7,143,750
FY2034	1,555,000	311,000	1,866,000
FY2035	1,555,000	233,250	1,788,250
FY2036	1,555,000	155,500	1,710,500
FY2037	1,555,000	77,750	1,632,750
<b>Total</b>	<b>\$ 509,732,072</b>	<b>189,211,067</b>	<b>698,943,139</b>

debt service impact of the proposed \$2.4 million is projected to begin in FY 2017 and would conclude within ten years.

Also, an additional \$88.5 million of general obligation bonds is proposed in FY 2017 for the following programs.

	Program Total
Jail and Sheriff's Office Replacement and Expansion	\$ 55,558,444
Jesse Helms Park Development	6,553,473
Library Expansion and Development	19,860,567
Park Development and Renewal	6,500,000
<b>Total</b>	<b>\$ 88,472,484</b>

The annual debt service impact of the proposed \$88.5 million is projected to begin in FY 2018 and would retire within twenty years.

The projected FY 2018 debt service for the additional \$90.9 million would equate to approximately 3.95 pennies of the projected FY 2014 ad valorem value.

The projected existing and proposed additional general capital program debt service is shown in the following table.

### General Capital Program Debt

Over the past ten years, \$34.2 million of general obligation bonds, certificates of participation, and installment financing have been issued by the County to fund General Capital Projects such as the Judicial Center, the Agricultural Center, Library projects, Law Enforcement facilities, and E911 Radio System / Equipment.

Type and Purpose	Issued	Original Issue Amount
COP's - Judicial Center	June 2003	\$ 15,464,022
COP's - Agricultural Center	June 2003	4,845,379
COP's - Library Projects	June 2003	2,737,323
GO BAN's - Firearms' Range	Year 2004	525,000
GO BAN's - Jail Expansion	Year 2004	467,500
GO BAN's - Animal Shelter	Year 2004	742,500
Installment Financing - E911 Radio System/Eq.	June 2009	9,390,000
<b>Total</b>		<b>\$ 34,171,724</b>

An additional \$2.4 million of installment financing is proposed in FY 2016 for the replacement of the Tax Assessment and Administration Software. The annual

Fiscal Year	Principal	Interest	Total
FY2013	\$ 2,270,243	839,347	3,109,590
FY2014	2,321,251	741,464	3,062,715
FY2015	2,358,360	661,246	3,019,607
FY2016	2,366,926	591,290	2,958,216
FY2017	2,613,761	630,414	3,244,176
FY2018	7,051,432	4,980,365	12,031,797
FY2019	7,748,329	4,663,982	12,412,311
FY2020	6,600,647	4,344,289	10,944,936
FY2021	5,836,524	4,046,762	9,883,286
FY2022	5,833,847	3,767,386	9,601,233
FY2023	5,736,254	3,489,867	9,226,121
FY2024	5,138,623	3,224,355	8,362,978
FY2025	5,823,978	2,951,764	8,775,742
FY2026	4,828,090	2,688,659	7,516,749
FY2027	4,588,090	2,449,806	7,037,896
FY2028	4,583,090	2,222,954	6,806,044
FY2029	4,588,090	1,996,352	6,584,442
FY2030	4,420,000	1,769,500	6,189,500
FY2031	4,425,000	1,548,500	5,973,500
FY2032	4,420,000	1,327,250	5,747,250
FY2033	4,425,000	1,106,250	5,531,250
FY2034	4,425,000	885,000	5,310,000
FY2035	4,425,000	663,750	5,088,750
FY2036	4,425,000	442,500	4,867,500
FY2037	4,425,000	221,250	4,646,250
<b>Total</b>	<b>\$ 115,677,535</b>	<b>52,254,304</b>	<b>167,931,838</b>



**Public Works Capital Program Debt**

During the past eighteen years, \$99.0 million of revenue bonds, general obligation bonds, and N.C. Clean Water Revolving Loans (NC CWRL) have been utilized by the County to fund water and wastewater infrastructure projects. These are delineated in the following table.

Type	Issued	Original Issue Amount
GO Bonds	June 1995	\$ 5,000,000
Revenue Bonds	May 1996	21,245,000
NC CWRL	June 1998	4,673,933
Revenue Bonds	June 2003	33,130,000
NC CWRL	June 2008	15,000,000
Revenue Bonds	June 2009	20,000,000
<b>Total</b>		<b>\$ 99,048,933</b>

An additional \$303.1 million of water and waste water revenue bonds is proposed over several years to fund the water and wastewater system improvement and expansion projects. Proposed issuance timing and amount are shown below.

	Program Total	Revenue Bond Issuance Timing/Amount
FY 2014 Proposed	\$ 49,420,430	-
FY 2015 Planned	26,531,800	97,220,000
FY 2016 Planned	94,862,700	-
FY 2017 Planned	13,753,000	200,585,000
FY 2018 Planned	112,504,500	
FY 2019 Planned	6,029,800	5,305,000
<b>Total</b>	<b>\$ 303,102,230</b>	<b>303,110,000</b>

The annual debt service impact of the three proposed additional revenue bond issuances totaling \$303.1 million is projected to begin in FY 2016, FY 2018 and FY2020 respectively; and would conclude within twenty years for each issuance. The projected existing and proposed additional public works capital program debt service is shown in the following table.

Fiscal Year	Principal	Interest	Total
FY2013	\$ 4,225,797	2,374,681	6,600,477
FY2014	3,901,932	2,209,440	6,111,372
FY2015	3,940,126	2,068,097	6,008,223
FY2016	7,263,810	6,381,484	13,645,294
FY2017	7,113,697	6,478,314	13,592,010
FY2018	13,930,000	15,384,551	29,314,551
FY2019	13,750,000	15,589,672	29,339,672
FY2020	14,550,000	15,199,707	29,749,707
FY2021	13,955,000	14,549,992	28,504,992
FY2022	14,385,000	13,896,119	28,281,119
FY2023	15,050,000	13,219,550	28,269,550
FY2024	15,750,000	12,510,493	28,260,493
FY2025	16,485,000	11,767,600	28,252,600
FY2026	17,255,000	10,988,828	28,243,828
FY2027	18,055,000	10,179,372	28,234,372
FY2028	18,895,000	9,321,864	28,216,864
FY2029	19,040,000	8,421,521	27,461,521
FY2030	17,995,000	7,543,321	25,538,321
FY2031	18,890,000	6,656,315	25,546,315
FY2032	19,825,000	5,725,149	25,550,149
FY2033	20,810,000	4,747,823	25,557,823
FY2034	21,840,000	3,721,837	25,561,837
FY2035	21,580,000	2,645,000	24,225,000
FY2036	14,895,000	1,566,000	16,461,000
FY2037	15,635,000	821,250	16,456,250
FY2038	385,000	39,500	424,500
FY2039	405,000	20,250	425,250
<b>Total</b>	<b>\$ 369,805,360</b>	<b>204,027,729</b>	<b>573,833,089</b>

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## Debt Policy

Union County's Finance Director is charged with the responsibility for prudently and properly managing any and all debt incurred by Union County, (the "County"). The following policy provides the methods, procedures, policies and practices which, when exercised, ensure the sound fiscal management of the County's debt program.

### SCOPE

This policy applies to all debt issued or incurred by the County. This may include general obligation bonds, certificates of obligation/participation, limited obligation bonds, revenue bonds, capital leases, private placements, installment financings, and letters of credit.

### DEBT LIMITS

The net debt of the County, as defined in G.S. 159-55, is statutorily limited to 8% of the assessed valuation of the taxable property within the County. Total General Fund debt service will not exceed any limits imposed by the Local Government Commission (LGC). As a guide, formulas established by the LGC and rating agencies will be monitored and appropriately applied by the County. Debt service as a percentage of the General Fund operating budget should not exceed 15%

The County evaluates new debt issuance as it relates to the current debt level. The amount of debt retired each year is compared to the amount of debt to be issued any given year and an analysis performed to determine the community's ability to assume and support additional debt service payments. When appropriate, the issuance of self-supporting revenue bonds and other self-supporting obligations are also considered.

An objective, analytical approach is used to make the determination of whether debt is issued. The process compares generally accepted standards of affordability to the current values for the County. Those standards may include measures such as: debt per capita, debt as a percent of assessed value, debt service payments as a percent of current revenues and/or current expenditures, and the level of overlapping net debt of all local taxing jurisdictions.

### OBJECTIVES

#### Legal and Regulatory Compliance

The County's debt policies and procedures are designed to ensure compliance with all State and Federal Law governing debt, including but not limited to, State Law, Federal Law, Internal Revenue Service rules and regulations, Securities and Exchange Commission ("SEC") regulations, Municipal Securities Rulemaking

Board ("MSRB") regulations, court rulings, and existing debt covenants.

As a result of the importance of complying with all legal and regulatory requirements, the Finance Director and the County Attorney will coordinate all activities necessary to issue debt, including but not limited to:

- selection of bond counsel;
- review of ordinances and resolutions provided by bond counsel;
- review of all documents necessary to issue debt provided by bond counsel; and
- verify compliance with the North Carolina Local Government Commission (LGC)

### RESPONSIBILITY AND CONTROL

The ultimate responsibility and authority for issuing debt is approval by the County's governing body, the Union County Board of Commissioners. The Finance Director is charged with the responsibility for the appropriate management of the County's debt program. The Cash and Debt Management Analyst executes the day-to-day debt functions of the debt program following the policies and procedures as well as the guidance and recommendations of the Finance Director, the Senior Management, and Commissioners.

### SELECTION OF SERVICE PROVIDERS

#### Financial Advisor

The Finance Director provides recommendations to Senior Management and the Board for the selection of a financial advisor for the County's debt program. The financial advisor may perform the following duties including but not limited to: presenting all available financing alternatives, comprehensive analyses for debt refinancing, recommendations for alternative financial structures, development of timing and sale of new issues, coordinating the market timing and pricing of debt securities, issuing and disseminating the bond offering documents and other disclosure requirements, coordinating with the underwriters of the bond issuance, seeking and coordinating ratings from the nationally recognized rating agencies, and providing guidance and advice about debt-related topics and the capital markets.

The recommendations to select a financial advisor will be based on the results of a formal request for proposal process. When the recommendation is made for Senior Management and Board approval, the basis for the recommendation will be submitted for review. The engagement of a financial advisor is implemented through the approval of a contract by the Union County Board of Commissioners that has a term of no more than five years.



## Bond Counsel

The Finance Director coordinates with the County Attorney and Senior Management on the selection of bond counsel for any issue. When the bond counsel has been selected, they are responsible for providing an opinion to investors in two specific areas: first, the bond counsel must assure investors that the securities are valid and legally binding obligations of the County. Second, the bond counsel will state whether the interest on the bonds is exempt or not from federal taxation. The bond counsel also prepares or supervises the preparation of all bond documents necessary to execute the bond issuance. The bond counsel is responsible for coordinating with the County Attorney's office, Clerk to the Board and Finance Office as well as the County's financial advisor to ensure that all tasks associated with the bond issuance are completed within prescribed timeframes.

## Underwriters

In a negotiated sale (See Methods of Sale), the Finance Director, after review with Senior Management, makes recommendations concerning underwriting firms to include in the underwriting syndicate. A diverse group of securities firms will be chosen based on past performance, demonstrated ability to resell, prior municipal issuance experience and other factors. While past demonstrated performance is the primary criteria for selection, within those criteria, the participation of historically underutilized businesses (HUBs) will be strongly encouraged.

The primary function of the underwriter is to purchase securities from the County and resell them to investors. Underwriters will be selected for each issue based on the particular experience and expertise necessary for that issue. The underwriter's compensation (an "underwriter's discount") is a percentage of the amount of bonds sold and is negotiated for each issuance. When the amount of bonds to be issued exceeds twenty million dollars (\$20 million) the LGC requires a Co-Manager Underwriting firm in addition to the primary Underwriting firm (Senior Managing Underwriter). Underwriter's employ their own Counsel.

## Trustee

The Trustee receives funds from the County and makes payments to bondholders, maintains records of bond ownership and acts as fiduciary agent for the benefit of the bondholders in enforcing the terms of the bond contract.

## Local Government Commission

All bonds issued under the authority of the Local Government Bond Act are approved by the Local

Government Commission (LGC). Approval of an application as noted in N.C.G.S. 159-51 for a bond issue to the LGC is contingent on criteria established in N.C.G.S. 159-52. Such criteria require resolution of issues such as low tax collection rate (below ninety percent (90%)), receipt of a qualified audit opinion, or violations of the Local Government Budget and Fiscal Control Act.

The County is required to send notice to the Joint Legislative Committee on Local Government at least 45 days before the LGC approves the County's application for all bonds or other debt obligations issued over \$1,000,000 for new projects, with the exception of schools, jails, courthouses, and administrative buildings.

No part of this policy may be construed or interpreted to supplant LGC authority or alleviate the County of any LGC requirements.

## Bond Insurers / Liquidity Providers

Credit quality and marketability of securities may be enhanced through the purchase of municipal bond insurance. The County may pay a single premium and in turn the bond insurer unconditionally guarantees the payment of principal and interest to bondholders in the event of default. Prior to purchasing insurance for an issue, the County performs a cost-effectiveness analysis with assistance from the financial advisor and bond counsel. Due to the County's high credit quality, the costs of insurance typically outweigh the benefits the County may derive by insuring an issue, but due consideration will be given to the possibility of insurance.

## METHODS OF SALE

The County typically chooses from three different methods of selling debt securities. The methods and the description of each method are listed below:

**1. Competitive Sale** - Bonds are awarded in an auction-style of sale to an underwriter or syndicate of underwriters that provides the lowest True Interest Cost (TIC) bid. TIC is defined as the rate, which will discount the aggregate amount of debt service payable over the life of the bond issue to its present value on the date of delivery.

**2. Negotiated Sale** - The County chooses an underwriter or underwriting syndicate that is interested in reoffering a particular series of bonds to investors. The terms of the sale, including the size of the underwriter's discount, date of sale, and other factors are negotiated between the County and the Underwriter(s).

Although the method of sale is termed negotiated, individual components of the sale may be competitively bid. The components are subject to a market analysis





and reviewed prior to recommendation by staff. Negotiated sales are more advantageous when there needs to be some flexibility in the sale date and market volatility is a concern. Negotiated sales are also often used when the issue is particularly large, if the sale of the debt issuance would be perceived to be more successful with pre-marketing efforts when a desired debt structure is a necessity and when market timing is a consideration.

**3. Private Placement** – Debt may be privately placed with a lending institution when private placement will enhance the attractiveness of the offering consistent with the receipt of the lowest true interest cost possible. The Local Government Commission must approve the use of all private placements, in accordance with NC Statute 159-153.

The County considers the following criteria when determining the appropriate method of sale for any debt issuance:

(1) Complexity of the Issue – Municipal securities with complex security features require greater marketing and buyer education efforts on the part of the underwriter, to improve the investors' willingness to purchase.

(2) Volatility of Bond Yields – If municipal markets are subject to abrupt changes in interest rates, there may need to be some flexibility in the timing of the sale to take advantage of positive market changes or to delay a sale in the face of negative market changes.

(3) Familiarity of Underwriters with the County's Credit quality – If underwriters are familiar with the County's credit quality, a lower True Interest Cost may be achieved. Awareness of the credit quality of the County has a direct impact on True Interest Cost an underwriter will bid on an issue. Therefore, where additional information in the form of presale marketing benefits the interest rate, a negotiated sale may be recommended.

(4) Size of the Issue – The County may choose to offer sizable issues as negotiated so that pre-marketing and buyer education efforts may be done to promote the bond sale.

(5) Costs of Issuance – Should the County decide to offer a small issue, it may choose a private placement in order to avoid the usual higher costs of issuance generally associated with competitive and negotiated sales.

### **Bid Verifications**

The County awards successful bidders on the basis of the lowest "True Interest Cost".

### **Allowable Discounts**

In most cases, the County requires bidders to purchase bonds at par. When there are no prevailing limitations, a discount is permitted when market conditions indicate a discount provides a more competitive bid and when there is flexibility to increase the par amount of the issue. If there is considerable market activity on the date of the proposed sale or other market-related factor to necessitate improving the marketability of the issue, discounts may be permitted. Bidders are notified in advance of the allowance for discounts.

### **Term Bonds**

Bidders may form term bonds based on the length of the maturity schedule. The resulting term bond structure must completely mirror the serial bond structure and must comply with the LGC requirements for weighted average maturity.

### **Retention**

Prior to pricing a bond issue, the County will select a lead underwriter and co-managing underwriters for the underwriting syndicate. Each member of the syndicate will then be assigned an "account liability" for purposes of determining the amount of the unsold bonds that will be allocated to each member of the syndicate. The total account liabilities will add up to 100 percent and the lead underwriter will typically have a larger liability than the co-managing underwriters.

### **Management Fee**

A management fee may be awarded to compensate the underwriters for providing assistance in structuring of the transaction, review of documents, coordination of the working group, efforts to obtain credit enhancement and other tasks. The management fee is typically allocated in the same allocation as the account liabilities.

### **BOND RATING AGENCY APPLICATION**

Prior to issuing new debt or to issuing refunding debt, the County will submit a rating application to at least two of the nationally recognized rating agencies, which are Moody's Investors Service, Standard & Poor's Rating Service and Fitch Ratings. The Carolina's Municipal Advisory Council will from time to time also review and update their ratings on the County.

As part of the application process, County staff may make a bond rating presentation directly to the credit analysts of the selected rating agencies. The County evaluates each time whether the circumstances favor making the presentation at the Bond Rating Agency offices, as a site visit or in some other convenient location. Included in the presentation, staff compiles information relevant to the County's current



economic and financial condition as well as County initiatives. When issues occur frequently, the rating agency application and offering document will be supplemented by a minimum of a written presentation of updated information about the County since the last rating application.

Annually, the County will distribute the CAFR and the current operating and capital budgets to each of the bond rating agencies that maintain ratings on the County's outstanding debt obligations. Information about the County is also available on the County's website, [www.co.union.nc.us](http://www.co.union.nc.us).

## **DISCLOSURE DOCUMENTS**

The financial advisor normally assists the County in the preparation of the Official Statement in conjunction with the sale of bond. The Official Statement contains relevant economic, financial and debt information to prospective purchasers of the new issue. Underwriters are required by SEC Rule 15c2-12 to obtain a copy of the Official Statement that is "deemed final" within 7 business days following the bidding or purchasing a new issue of securities. The senior underwriter files a copy of each Official Statement with the MSRB via its Electronic Municipal Market Access database ("EMMA").

### **Continuing Disclosure**

The County is required under the provisions of SEC Rule 15c2-12 to provide current information annually to update certain information typically required in each Official Statement. The Official Statement provides relevant information in a series of tables. Those tables are updated and provided in the County's Comprehensive Annual Financial Report on an annual basis. This ensures the underwriters and investors have the opportunity to preview current information about the County prior to bidding or purchasing part or all of a County issuance or purchasing outstanding obligations in the secondary market. The CAFRs are filed with EMMA.

Additionally, the County will also provide timely notices of certain events to the MSRB. The County will provide notice of any of the following events with respect to bonds issued within ten business days after the occurrence of an event: (1) principal and interest payment delinquencies; (2) non-payment related defaults, if material; (3) unscheduled draws on debt service reserves reflecting financial difficulties; (4) unscheduled draws on credit enhancements reflecting financial difficulties; (5) substitution of credit or liquidity providers, or their failure to perform; (6) adverse tax opinions, the issuance by the Internal Revenue Service of proposed or final determinations of taxability, Notices of Proposed Issue (IRS Form 5701-TEB) or other material notices or determinations with respect to the tax status of the Obligations, or other material events

affecting the tax status of the Obligations; (7) modifications to rights of holders of the Obligations, if material; (8) redemption of the Obligations, if material, and tender offers; (9) defeasances; (10) release, substitution, or sale of property securing repayment of the Obligations; (11) rating changes; (12) bankruptcy, insolvency, receivership or similar event of the County; (13) the consummation of a merger, consolidation, or acquisition involving the County or the sale of all or substantially all of the assets of the County, other than in the ordinary course of business, the entry into a definitive agreement to undertake such an action or the termination of a definitive agreement relating to any such actions, other than pursuant to its terms, if material; and (14) appointment of a successor Paying Agent/Registrar or change in the name of the Paying Agent/Registrar, if material.

## **CAPITAL PROGRAM**

One of the County's goals is to maintain the excellent quality of the County's infrastructure. One of the mechanisms to achieve that objective is the maintenance of a Capital Program. The Capital Program is outlined in the County's Capital Improvement Program Management Policy and also recommends a course of action if a new debt issuance is required.

## **BOND TYPE & STRUCTURE**

### **Fixed Interest versus Variable Interest**

The County primarily issues fixed rate bonds to protect the organization against interest rate risk. The County has the option to issue variable rate bonds, and may if market conditions warrant consideration of such a structure. The County will limit the amount of variable rate bonds to no more than 10% of its total debt portfolio.

## **DERIVATIVES**

A derivative is a financial instrument whose value depends on other, more basic underlying variables. Derivatives may take the form of interest rate swaps; futures and options contracts; options on swaps; and other hedging mechanisms such as caps, floors, collars, and rate locks. Derivatives can provide interest rate savings, alter debt service patterns, and provide a hedge against risk associated with variable interest rate debt. However, derivatives also come with multiple risks that currently outweigh the benefits. The County believes capital objectives can be accomplished with traditional and more conservative financing methods and therefore limits the use of derivatives.

The County will also use an outside financial advisor for the preparation of derivative disclosures in our CAFR.



## General Obligation Bonds

The County issues General Obligation Bonds for general purpose capital improvements when benefits accrue to the entire community. General Obligation Bonds are also used when the expectation of the project is that it will not generate significant revenues. The County pledges its "full faith and credit" and levies property tax to repay the debt. In order to issue General Obligation Bonds, the County's voters must authorize the amount to be issued through a referendum. General Obligation Bonds are sold for a term equal to, or less than, the useful life of the project that it is funding. The County may also issue two-thirds bonds of the prior year's general obligation net reduction without voter referendum as defined in N.C. GS 159-49.

As stated in the Union County Capital Improvement Program Management Policy, it is anticipated that new general obligation debt will be funded through increased tax rate, and that voter approval of general obligation debt represents a tacit approval of the accompanying tax rate. It is also anticipated that as new general obligation debt matures; the associated tax rate will be reduced accordingly.

## Installment Financings / Certificates of Participation / Limited Obligation Bonds

The County has the opportunity to enter into installment financings under N.C. GS 160A-20, which are basically general obligation debt that do not require voter approval and the debt service obligations are subject to the annual appropriation by the Board of Commissioners. Although voter approval is not required, additional notification requirements do apply. The installment financings are secured by a lien on all or a portion of the property being financed, but otherwise are non-recourse to the County.

The County can enter into an installment financing as a private placement directly with a financial institution or, with the assistance of the Union County Public Facilities Corporation (Corporation), use Certificates of Participation (COPs) or Limited Obligation Bonds (LOBs) as a vehicle to finance the projects in the public markets.

The Corporation is a blended component unit of the County and exists to solely assist the County in financing public facilities. The Corporation is governed by a three-member board, all of whom are appointed by the County Board of Commissioners. The Board can remove any Corporation member with or without cause. The Corporation's transactions are reported within the General and Capital Projects Funds. The Corporation does not issue separate financial statements.

## Revenue Bonds

The County issues Revenue Bonds primarily for Union County's Water and Sewer Enterprise Systems. Revenue Bonds are secured by a specific source of revenue. There is no tax pledge. Revenue Bonds are issued to pay for improvements that benefit the users that repay the debt through user fees. When Revenue Bonds are issued or are outstanding, coverage requirements consistent with the bond covenant will be maintained. In addition to coverage requirements, additional system maintenance and renewal contribution levels may be required.

## Conduit Securities

The County acts as a conduit for tax-exempt financing for several entities within the County. Union County Industrial Facilities and Pollution Control Financing Authority (Authority) is a component unit of the County and exists to issue and service revenue bond debt of private business for economic development purposes. The Authority is governed by a seven-member board, all of whom are appointed by the County Board of Commissioners (Board). The Board can remove any Authority member with or without cause. The Authority has no financial transactions or account balances; therefore, it is not presented in the basic financial statements. The Authority does not issue separate financial statements.

The County may compel the entity issuing conduit financing to (1) commit to provide the municipal securities market with continuing disclosure information, (2) issue an Official Statement or other disclosure document that clearly describes the lack of direct financial support from the County or (3) obtain an opinion that states that the County will not be liable for the payment of principal and interest in the event of default by the conduit borrower. If the opinion cannot be obtained, the County may ask the conduit borrower to purchase bond insurance or provide a letter of credit in the County's name to protect taxpayers in event of default.

## Structure

Bonds are **generally** issued with an average life of 20 years or less for general obligation bonds or 30 years for revenue bonds. **Typically** interest is paid in the first fiscal year after a bond sale and principal is paid no later than the second fiscal year after the debt is issued. Call provisions for bond issues shall be made as short as possible consistent with the lowest interest cost to the County. The targeted maximum length to call is 10 years.

When considering structure, issues such as asset life, inter-generational equity, and affordability, among others, will be considered.



## **INVESTMENT OF BOND PROCEEDS**

Interest on bond proceeds is restricted such that it may only be used to fund projects that have the same purpose as the purpose for which the bonds were originally issued. Construction proceeds are typically invested in short-term securities so that they are liquid. Interest & Sinking funds may be invested longer as they have to be maintained for the life of the issue.

## **POST-ISSUANCE COMPLIANCE**

The County will comply with all tax rules on its tax-exempt debt, including arbitrage rebate requirements, spending of bond proceeds, use of financed facilities and record keeping as established by the Internal Revenue Service, and all disclosure requirements established by the Securities and Exchange Commission. This effort includes tracking investment earnings on bond proceeds, calculating rebate payments in compliance with the tax law and remitting rebatable earnings to the federal government in a timely manner in order to preserve the tax exempt status of the County's outstanding debt issues. The County Finance Director is responsible for such compliance efforts in consultation with the County Attorney and bond counsel.

## **REFUNDING & RESTRUCTURING OPTIONS**

The County may elect to refund existing debt for any of the following reasons:

- To achieve interest rate savings in a declining interest rate environment, the minimum savings achieved will be in accordance with LGC standards and guidance;
- To update covenants on outstanding debt which impair efficient operations, require burdensome coverage, or prohibit necessary or desirable activities;
- To restructure the pattern of debt service associated with outstanding bond issues; and
- To alter bond characteristics such as call provision or payment dates.

The Tax Reform Act of 1986 limits each issue to one advance refunding for all issues issued after 1986. When interest rate savings is the principal reason for advance refunding an issue, the County will have as a goal to, but not a requirement to, include issues that contribute three percent or more present value savings. Other factors may also affect the County's decision to advance refund an issue.

## **DEBT RATIOS**

The County has identified key debt ratios that investors and financial analysts use when reviewing the County's creditworthiness. The County will periodically update for investors and others the values for these ratios. These ratios include:

- Debt as a percentage of assessed value – This ratio indicates the relationship between the County's debt and the taxable value of property in the County or the County's ability to repay the debt.
- Debt per capita is the ratio that indicates the per capita debt burden and is a general indicator of the County's debt burden.
- Debt per capita as a percentage of per capita income is a measure of the capacity of the County of citizens to finance tax-supported debt. A low ratio means that taxes required to pay debt represent a smaller portion of the average citizen's income.
- Debt Service as a percent of general governmental expenditures – County's ability to repay debt without hampering other County services.
- Unreserved General Fund Balance as a percent of General Fund Operating Expenses.

## **BUDGET AND PROJECTIONS**

The annual operating budget will include a detailed debt analysis and discussion to include:

- Debt Service Requirements;
- Debt Ratios;
- Projection of Debt Service Payments for future years; and
- Current Credit Ratings.

In addition, during the annual projection process, all projections should include anticipated debt service for new issuances based on the adopted CIP.

**Adopted April xx, 2013**





## Education Capital Program

The proposed Education Capital Program (ECP) provides for the capital needs of the Union County Public Schools (UCPS) and the South Piedmont Community College (SPCC).

### Program Highlights

The ECP includes one program and six projects.

Education Capital Six-Year Program	Program Total
<b>ECP Proposed Projects</b>	
ADA Compliance	\$ 697,890
School Site Safety/Security	8,299,056
SPCC Multipurpose Building	22,704,651
SPCC Center for Technology and Allied Health	8,426,079
Technology Equipment & Infrastructure Replacement	3,593,904
Structural Renovations	5,409,150
<b>Total System Expansion Programs</b>	<b>\$ 49,130,730</b>

The proposed ECP provides \$3 million annually for UCPS projects as an ongoing capital program. The largest portion of the UCPS projects proposed during the six-year program are the School Site Safety/Security projects, with about \$8.3 million proposed, about \$1.4 million annually.

In addition to the school safety project, the proposed ECP includes \$900,000 annually for structural repairs and renovations, \$600,000 annually for technology upgrades, and \$116,000 annually for ADA Compliance.

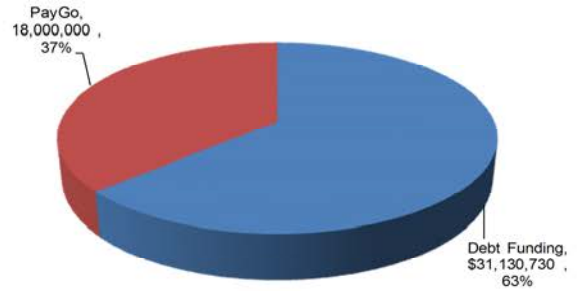
The proposed ECP is based upon their one-year capital request as approved by the Union County Board of Education on March 5, 2013. To accommodate the County's financial constraints, the one-year program was broken into three years and carried through the end of the six-year program.

The two SPCC projects, in contrast to the UCPS projects, are focused on facility development and renovation and a new facility. Included in the proposed ECP is \$31.1 million for the renovations and expansion to create the SPCC Center for Technology and Allied Health and the new SPCC Multipurpose Facility.

## Funding Strategy

Fiscal Year	Debt Funding	PayGo	Total
Funded-To-Date	\$ -	-	-
FY 2014 Proposed	-	3,000,000	3,000,000
FY 2015 Planned	-	3,000,000	3,000,000
FY 2016 Planned	-	3,000,000	3,000,000
FY 2017 Planned	8,426,079	3,000,000	11,426,079
FY 2018 Planned	22,704,651	3,000,000	25,704,651
FY 2019 Planned	-	3,000,000	3,000,000
<b>Total</b>	<b>\$ 31,130,730</b>	<b>18,000,000</b>	<b>49,130,730</b>

### Education Capital Program Funding



The proposed ECP provides funding through two sources. The proposed sources are pay-as-you-go (PayGo) and general obligation bonds (GO Bonds).

The PayGO funding plan is tied to the ongoing projects for UCPS. In recent years, there has not been an ongoing funding mechanism for these types of projects. They have primarily been funded through bond savings or other debt. Because the majority of items requested by UCPS do not meet a cost/lifespan threshold for debt funding, a cash funding source is needed.

In addition to the types of items funded, using debt for ongoing projects is not a long-term sustainable funding plan. The recommended funding in the ECP provides a sustainable funding option.

Fiscal Year	General Fund Balance	Current Revenue	Total PayGO
Funded-To-Date	\$ -	-	-
FY 2014 Proposed	3,000,000	-	3,000,000
FY 2015 Planned	2,000,000	1,000,000	3,000,000
FY 2016 Planned	1,000,000	2,000,000	3,000,000
FY 2017 Planned	-	3,000,000	3,000,000
FY 2018 Planned	-	3,000,000	3,000,000
FY 2019 Planned	-	3,000,000	3,000,000
<b>Total</b>	<b>\$ 6,000,000</b>	<b>12,000,000</b>	<b>18,000,000</b>

As the table indicates, during the next three years the PayGo funding will be a mix of General Fund balance and current revenues. The goal is to fully fund the ECP with current revenues versus one-time revenues.

In addition to the merits of having an ongoing source from a fiscally sustainable perspective, having an ongoing source ensures that each year there



will be capital maintenance money available for UCPS.

The largest source of funding proposed is the use of General Obligation Bonds (GO Bonds). Typically general obligation bonds are voted on by the residents via a referendum. It is anticipated that the recommended new GO Bonds would be no different.

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.

Fiscal Year	Principal	Interest	Total
Current Debt Svc.	\$ 28,271,832	19,156,293	47,428,125
FY 2014 Proposed	29,189,334	17,935,514	47,124,848
FY 2015 Planned	29,965,041	16,862,807	46,827,848
FY 2016 Planned	29,940,221	15,645,169	45,585,390
FY 2017 Planned	29,977,403	14,349,038	44,326,441
FY 2018 Planned	31,530,170	14,620,275	46,150,445
FY 2019 Planned	30,805,304	13,308,994	44,114,298
Total	\$ 209,679,305	111,878,090	321,557,395

Given the proposed projects, and assuming a successful referendum, the total new general obligation debt for general projects would increase by about \$31.1 million. Assuming market conditions and other factors, the County's debt service would climb to \$46.2 million by FY 2018.

To provide perspective, the value of each penny in ad valorem tax for FY 2014 is anticipated to generate \$2,327,056. The new GO Bonds would generate an increase of approximately 1.34 cents. It is important to note that these estimates will change based on revaluation that will occur in 2015.

**Operating Budget Impact**

The primary operating budget impact related to the ECP is the impact of the annual debt service from the proposed GO Bonds.

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# Funding and Program Summary

## Education Capital Program

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>Funding Sources</b>								
FY 2017 General Obligation Bonds	0	0	0	0	-8,426,079	0	0	-8,426,079
FY 2018 General Obligation Bonds	0	0	0	0	0	-22,704,651	0	-22,704,651
General PayGo	0	-3,000,000	-3,000,000	-3,000,000	-3,000,000	-3,000,000	-3,000,000	-18,000,000
<b>Total Funding Sources</b>	<b>0</b>	<b>-3,000,000</b>	<b>-3,000,000</b>	<b>-3,000,000</b>	<b>-11,426,079</b>	<b>-25,704,651</b>	<b>-3,000,000</b>	<b>-49,130,730</b>
<b>Programs</b>								
Educational Facilities Development and Improvement	0	3,000,000	3,000,000	3,000,000	11,426,079	25,704,651	3,000,000	49,130,730
<b>Total Programs</b>	<b>0</b>	<b>3,000,000</b>	<b>3,000,000</b>	<b>3,000,000</b>	<b>11,426,079</b>	<b>25,704,651</b>	<b>3,000,000</b>	<b>49,130,730</b>

# Educational Facilities Development and Improvement

Program Detail

**Program Scope**

Capital program to provide for the ongoing improvement, renovation, renewal, replacement, and development of various educational facilities throughout the County. 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 General Obligation Bonds	0	0	0	0	-8,426,079	0	0	-8,426,079
FY 2018 General Obligation Bonds	0	0	0	0	0	-22,704,651	0	-22,704,651
General PayGo	0	-3,000,000	-3,000,000	-3,000,000	-3,000,000	-3,000,000	-3,000,000	-18,000,000
<b>Total REVENUE</b>	<b>0</b>	<b>-3,000,000</b>	<b>-3,000,000</b>	<b>-3,000,000</b>	<b>-11,426,079</b>	<b>-25,704,651</b>	<b>-3,000,000</b>	<b>-49,130,730</b>
<b>EXPENDITURES</b>								
Construction	0	0	0	0	8,426,079	22,704,651	0	31,130,730
Elementary Schools	0	987,292	987,292	987,292	987,292	987,292	987,292	5,923,752
High Schools	0	1,272,499	1,272,499	1,272,499	1,272,499	1,272,499	1,272,499	7,634,994
Middle Schools	0	143,682	143,682	143,682	143,682	143,682	143,682	862,092
Others	0	596,527	596,527	596,527	596,527	596,527	596,527	3,579,162
<b>Total EXPENDITURES</b>	<b>0</b>	<b>3,000,000</b>	<b>3,000,000</b>	<b>3,000,000</b>	<b>11,426,079</b>	<b>25,704,651</b>	<b>3,000,000</b>	<b>49,130,730</b>
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
ED001 ADA Compliance	0	116,315	116,315	116,315	116,315	116,315	116,315	697,890
ED002 School Site Safety/Security	0	1,383,176	1,383,176	1,383,176	1,383,176	1,383,176	1,383,176	8,299,056
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	8,426,079	0	0	8,426,079
ED005 Technology Equipment & Infrastructure Replacement	0	598,984	598,984	598,984	598,984	598,984	598,984	3,593,904
ED006 Structural Renovations	0	901,525	901,525	901,525	901,525	901,525	901,525	5,409,150
<b>Educational Facilities Development</b>	<b>0</b>	<b>3,000,000</b>	<b>3,000,000</b>	<b>3,000,000</b>	<b>11,426,079</b>	<b>25,704,651</b>	<b>3000000</b>	<b>49,130,730</b>

# ADA Compliance

Union County Public Schools

Educational Facilities Development and Improvement

Requested

**Project Scope**

Facility Expansion

Project is to address compliance with the Americans with Disabilities Act through improving access to Union County Public School facilities. Access improvements include renovation and replacement of restrooms, installation of access ramps, and other needed modifications to various facilities.

**Project Justification & History**

Title II of the Americans with Disabilities Act (ADA) requires that state and local governments, in this case Union County Public Schools, make reasonable accommodations to allow individuals with disabilities to participate in activities and use public facilities. While the ADA does not require the retrofitting of existing facilities, it is in the interest of all residents of Union County to ensure public facilities are accessible.

**Project Alternatives**

Continue to operate in current conditions.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total	
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019		
<b>REVENUE</b>									
General PayGo	0	-116,315	-116,315	-116,315	-116,315	-116,315	-116,315	-116,315	-697,890
<b>Total REVENUE</b>	<b>0</b>	<b>-116,315</b>	<b>-116,315</b>	<b>-116,315</b>	<b>-116,315</b>	<b>-116,315</b>	<b>-116,315</b>	<b>-116,315</b>	<b>-697,890</b>
<b>EXPENDITURES</b>									
Elementary Schools	0	74,715	74,715	74,715	74,715	74,715	74,715	74,715	448,290
High Schools	0	41,600	41,600	41,600	41,600	41,600	41,600	41,600	249,600
Middle Schools	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0
<b>Total EXPENDITURES</b>	<b>0</b>	<b>116,315</b>	<b>116,315</b>	<b>116,315</b>	<b>116,315</b>	<b>116,315</b>	<b>116,315</b>	<b>116,315</b>	<b>697,890</b>
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0	0

# School Site Safety/Security

Union County Public Schools

Educational Facilities Development and Improvement

Requested

**Project Scope**

Facility Expansion

Project addresses various school site safety and security projects. Safety and security improvements include the installation card access devices, installation of security doors, security systems, upgrade of fire alarm systems, security fencing, installation of fire hydrants, and other related site modifications and improvements.

**Project Justification & History**

As recent events throughout the country have demonstrated, providing security and safety at public facilities is a dynamic process requiring continuous improvement. Given the age of various facilities it is necessary to make ongoing improvements to ensure those facilities keep pace with the changing security needs of the students, staff, and public.

**Project Alternatives**

Continue to operate in current conditions.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total	
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019		
<b>REVENUE</b>									
General PayGo	0	-1,383,176	-1,383,176	-1,383,176	-1,383,176	-1,383,176	-1,383,176	-1,383,176	-8,299,056
<b>Total REVENUE</b>	<b>0</b>	<b>-1,383,176</b>	<b>-1,383,176</b>	<b>-1,383,176</b>	<b>-1,383,176</b>	<b>-1,383,176</b>	<b>-1,383,176</b>	<b>-1,383,176</b>	<b>-8,299,056</b>
<b>EXPENDITURES</b>									
Elementary Schools	0	277,011	277,011	277,011	277,011	277,011	277,011	277,011	1,662,066
High Schools	0	804,790	804,790	804,790	804,790	804,790	804,790	804,790	4,828,740
Middle Schools	0	79,078	79,078	79,078	79,078	79,078	79,078	79,078	474,468
Others	0	222,297	222,297	222,297	222,297	222,297	222,297	222,297	1,333,782
<b>Total EXPENDITURES</b>	<b>0</b>	<b>1,383,176</b>	<b>1,383,176</b>	<b>1,383,176</b>	<b>1,383,176</b>	<b>1,383,176</b>	<b>1,383,176</b>	<b>1,383,176</b>	<b>8,299,056</b>
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0	0

# SPCC Multi-Purpose Building

South Piedmont Community College

Educational Facilities Development and Improvement

Requested

**Project Scope**

New Facility

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

In addition to the new facility the project includes a new parking area and a vehicular circulation route, a “green space” for pedestrian traffic, located in center campus, and renovation of an existing building on the Monroe Campus to accommodate a modern Conference Center and the Union County Public School Early College.

**Project Justification & 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 Alternatives**

Continue to use current facilities.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
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
<b>EXPENDITURES</b>								
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
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0



# SPCC Center for Technology and Allied Health

South Piedmont Community College

Educational Facilities Development and Improvement

Requested

**Project Scope**

Facility Expansion/Replacement

Project provides renovations 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 progressions.

**Project Justification & 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 enhances 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 Alternatives**

Continue to use current facility.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 General Obligation Bonds	0	0	0	0	-8,426,079	0	0	-8,426,079
Total REVENUE	0	0	0	0	-8,426,079	0	0	-8,426,079
<b>EXPENDITURES</b>								
Construction	0	0	0	0	8,426,079	0	0	8,426,079
Total EXPENDITURES	0	0	0	0	8,426,079	0	0	8,426,079
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# Technology Equipment & Infrastructure Replacement

Union County Public Schools

Educational Facilities Development and Improvement

Requested

**Project Scope**

Facility Expansion

Project provides for the purchase and installation of software and equipment to improve the reliability, connectivity, and access to network resources at various schools. This project expands the wireless connectivity by providing the necessary infrastructure, through network enhancements, to ensure adequate connectivity and reliability in various schools. The project includes additional connectivity and access through the purchase and implementation of a mobile device manager.

**Project Justification & History**

The changing technology needs of the students and the staff necessitates continual improvement and upgrade of the information technology infrastructures. As the educational environment continues to develop the use of technology as a classroom tool, through initiatives such as the 1:1 Initiative and the use of netbooks for state testing, there is a continual need improve.

**Project Alternatives**

Continue to use current infrastructure.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total	
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019		
<b>REVENUE</b>									
General PayGo	0	-598,984	-598,984	-598,984	-598,984	-598,984	-598,984	-598,984	-3,593,904
Total REVENUE	0	-598,984	-598,984	-598,984	-598,984	-598,984	-598,984	-598,984	-3,593,904
<b>EXPENDITURES</b>									
Elementary Schools	0	209,454	209,454	209,454	209,454	209,454	209,454	209,454	1,256,724
High Schools	0	15,300	15,300	15,300	15,300	15,300	15,300	15,300	91,800
Middle Schools	0	0	0	0	0	0	0	0	0
Others	0	374,230	374,230	374,230	374,230	374,230	374,230	374,230	2,245,380
Total EXPENDITURES	0	598,984	598,984	598,984	598,984	598,984	598,984	598,984	3,593,904
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0	0

# Structural Renovations

Union County Public School

Educational Facilities Development and Improvement

Requested

**Project Scope**

Facility Expansion

Project provides for structural improvements to various schools, including roof replacement, window replacement, plumbing replacement and boiler upgrades, and other needed replacement and renovation projects.

Included in this project is the replacement and upgrade of the home bleachers and restrooms at Piedmont High School.

**Project Justification & History**

As facilities are used regularly and age, it is necessary to make repairs and replace significant infrastructure components. These items extend the useful life of the facilities and provide for a safe and secure environment for students and staff by preventing future structural damage, water intrusion, and potential mold issues.

**Project Alternatives**

Continue to use current facilities

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total	
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019		
<b>REVENUE</b>									
General PayGo	0	-901,525	-901,525	-901,525	-901,525	-901,525	-901,525	-901,525	-5,409,150
Total REVENUE	0	-901,525	-901,525	-901,525	-901,525	-901,525	-901,525	-901,525	-5,409,150
<b>EXPENDITURES</b>									
Elementary Schools	0	426,112	426,112	426,112	426,112	426,112	426,112	426,112	2,556,672
High Schools	0	410,809	410,809	410,809	410,809	410,809	410,809	410,809	2,464,854
Middle Schools	0	64,604	64,604	64,604	64,604	64,604	64,604	64,604	387,624
Others	0	0	0	0	0	0	0	0	0
Total EXPENDITURES	0	901,525	901,525	901,525	901,525	901,525	901,525	901,525	5,409,150
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0	0



## 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 and including areas such as law enforcement, parks and recreation, libraries, information infrastructure, and others.

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

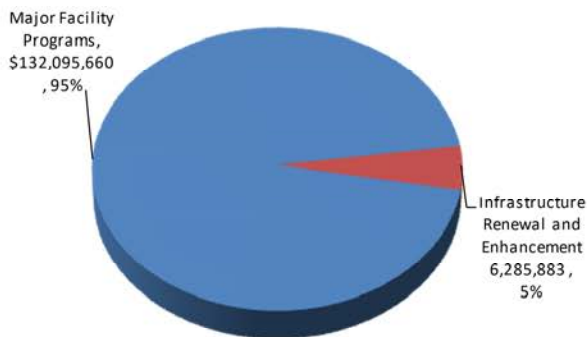
### Program Highlights

The GCP consists of eleven capital programs and twenty-two specific projects. The programs proposed focus on two specific areas, major facilities and infrastructure renewal and enhancement.

The Major Facility portion of the program includes the replacement and expansion of existing buildings and facilities within the County, additional facilities, and land acquisition. The projects proposed in this group reflect the growing and changing service needs of the residents within the County.

Fiscal Year	Major Facility Programs	Infrastructure Renewal and Enhancement	Total
Funded-To-Date	\$ 6,723,176	794,000	7,517,176
FY 2014 Proposed	35,350,000	2,402,555	37,752,555
FY 2015 Planned	50,000	643,768	693,768
FY 2016 Planned	700,000	45,560	745,560
FY 2017 Planned	18,100,914	2,970,000	21,070,914
FY 2018 Planned	71,171,570	-	71,171,570
FY 2019 Planned	-	-	-
<b>Total</b>	<b>\$ 132,095,660</b>	<b>6,855,883</b>	<b>138,951,543</b>

### General Capital Program



General Capital Six-Year Program	Program Total
<b>Major Facility Programs</b>	
Firearms Training and Qualifications Range	\$ 4,555,665
Human Services Campus	35,150,000
Jail and Sheriffs Office Replacement and Expansion Program	57,481,189
Jesse Helms Park Development	6,553,473
Law Enforcement Facilities Expansion and Renewal	1,000,000
Library Expansion and Development	19,955,333
Park Development and Renewal	7,400,000
<b>Total System Expansion Programs</b>	<b>\$ 132,095,660</b>
<b>Infrastructure Renewal and Enhancement</b>	
Facilities Maintenance and Renewal	\$ 443,235
Human Services Automation and Record Enhancements	1,199,410
IT Infrastructure and Efficiency Enhancements	2,813,238
Tax Assessment and Administration Software Replacement	2,400,000
<b>Total System Rehabilitation and Renewal Programs</b>	<b>\$ 6,855,883</b>

The Infrastructure Renewal and Enhancement portion of the program includes projects that will enhance the efficiency of County operations or provide savings through significant replacement of building systems.

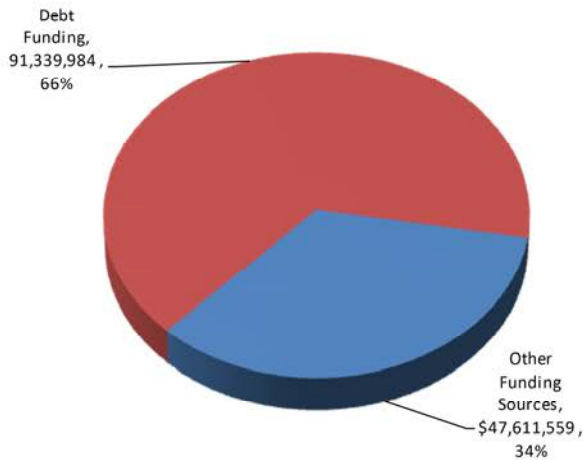
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## Funding Strategy

Fiscal Year	Other Funding Sources	Debt Funding	Total
Funded-To-Date	\$ 7,049,676	467,500	7,517,176
FY 2014 Proposed	37,752,555	-	37,752,555
FY 2015 Planned	693,768	-	693,768
FY 2016 Planned	745,560	-	745,560
FY 2017 Planned	570,000	20,500,914	21,070,914
FY 2018 Planned	800,000	70,371,570	71,171,570
FY 2019 Planned	-	-	-
<b>Total</b>	<b>\$ 47,611,559</b>	<b>91,339,984</b>	<b>138,951,543</b>

### General Capital Program



Funding of the proposed GCP is provided through a number of sources, including capital reserves, new debt, general fund pay-as-you-go (PayGo), grants, and contributions from other funds.

The largest source of funding proposed is the use of General Obligation Bonds (GO Bonds). Typically general obligation bonds are voted on by the residents via a referendum. It is anticipated that the recommended new GO Bonds would be no different.

	Program Total
<b>General Obligation Bond Projects</b>	
Jail and Sheriff's Office Replacement and Expansion Program	\$ 55,558,444
Jesse Helms Park Development	6,553,473
Library Expansion and Development	19,860,567
Park Development and Renewal	6,500,000
<b>Total System Expansion Programs</b>	<b>\$ 88,472,484</b>

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.

Given the proposed projects, and assuming a successful referendum, the total new general obligation debt for general projects would increase by about \$88.5 million.

Assuming market conditions and other factors, the County's debt service would climb to \$12.4 million by the end of the six year period, in FY 2019.

Fiscal Year	Principal	Interest	Total
Current Debt Svc.	\$ 2,270,243	839,347	3,109,590
FY 2014 Proposed	2,321,251	741,464	3,062,715
FY 2015 Planned	2,358,360	661,246	3,019,606
FY 2016 Planned	2,366,926	591,290	2,958,216
FY 2017 Planned	2,613,761	630,414	3,244,175
FY 2018 Planned	7,051,432	4,980,365	12,031,797
FY 2019 Planned	7,748,329	4,663,982	12,412,311
<b>Total</b>	<b>\$ 26,730,302</b>	<b>13,108,108</b>	<b>39,838,410</b>

To provide perspective, the value of each penny in ad valorem tax for FY 2014 is anticipated to generate \$2,327,056. The new GO Bonds would generate an increase of approximately 3.8 cents. It is important to note that these estimates will change based on revaluation that will occur in 2015.

The proposed 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.

	Program Total
Capital Reserve	\$ 94,766
FY 2017 General Obligation Bonds	88,472,484
General PayGo	46,070,609
GO Bonds	467,500
Grant Funding	512,205
Installment Financing	2,400,000
Other Activities	606,479
Utility Fund Balance	327,500
<b>Total Funding</b>	<b>\$ 138,951,543</b>

In addition to the GO Bonds and Installment Financing, the proposed GCP includes the use of \$46 million of PayGo funding. The majority of the PayGo funding comes through the one-time hospital lease revenue, based on Commission direction, \$35 million of the revenue is proposed as cash funding for the Human Services Campus project. It is important to note, that as of the preparation of this plan, the County is reviewing alternative project delivery methods for the Human Services Campus. The adoption of the GCP does not preclude any of those options; however it provides a "Plan B" funding strategy.

In addition to the Human Services Facility, the Firearms Training and Qualifications Range was previously funded through \$4.5 million of PayGo and remains an open project in the GCP.





The remaining \$6.5 million of PayGo funding is recommended for smaller facility and technology enhancement projects.

The use of Utility Fund Balance is recommended as the funds contribution for the "Countywide Phone System Upgrade to VoIP" project.

**Operating Budget Impact**

Given the new and expansion 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 this plan that discusses the County's total debt in detail.

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# Funding and Program Summary

## General Capital Program

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>Funding Sources</b>								
Capital Reserve Fund	-94,766	0	0	0	0	0	0	-94,766
FY 2017 General Obligation Bonds	0	0	0	0	-18,100,914	-70,371,570	0	-88,472,484
General PayGo	-6,348,431	-36,965,115	-641,503	-745,560	-570,000	-800,000	0	-46,070,609
GO Bonds	-467,500	0	0	0	0	0	0	-467,500
Grant Funding	0	-459,940	-52,265	0	0	0	0	-512,205
Installment Financing	0	0	0	0	-2,400,000	0	0	-2,400,000
Other Activities	-606,479	0	0	0	0	0	0	-606,479
Utility Fund Balance	0	-327,500	0	0	0	0	0	-327,500
<b>Total Funding Sources</b>	<b>-7,517,176</b>	<b>-37,752,555</b>	<b>-693,768</b>	<b>-745,560</b>	<b>-21,070,914</b>	<b>-71,171,570</b>	<b>0</b>	<b>-138,951,543</b>
<b>Programs</b>								
Facilities Maintenance and Renewal	20,000	177,675	200,000	45,560	0	0	0	443,235
Firearms Training and Qualifications Range	4,555,665	0	0	0	0	0	0	4,555,665
Human Services Automation and Record Management	0	1,094,880	104,530	0	0	0	0	1,199,410
Human Services Campus	150,000	35,000,000	0	0	0	0	0	35,150,000
IT Infrastructure and Efficiency Enhancements	774,000	1,130,000	339,238	0	570,000	0	0	2,813,238
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
Jesse Helms Park Development	0	0	0	0	6,553,473	0	0	6,553,473
Law Enforcement Facilities Expansion & Renewal	0	250,000	50,000	700,000	0	0	0	1,000,000
Library Expansion and Development	94,766	0	0	0	1,986,057	17,874,510	0	19,955,333
Park Development and Renewal	0	100,000	0	0	6,500,000	800,000	0	7,400,000
Tax Assessment and Administration Software Replacement	0	0	0	0	2,400,000	0	0	2,400,000
<b>Total Programs</b>	<b>7,517,176</b>	<b>37,752,555</b>	<b>693,768</b>	<b>745,560</b>	<b>21,070,914</b>	<b>71,171,570</b>	<b>0</b>	<b>138,951,543</b>

# 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
General PayGo	-3,637	-177,675	-200,000	-45,560	0	0	0	-426,872
Other Activities	-16,363	0	0	0	0	0	0	-16,363
<b>Total REVENUE</b>	<b>-20,000</b>	<b>-177,675</b>	<b>-200,000</b>	<b>-45,560</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-443,235</b>
<b>EXPENDITURES</b>								
Construction	0	102,675	200,000	45,560	0	0	0	348,235
FF&E	20,000	0	0	0	0	0	0	20,000
Studies	0	75,000	0	0	0	0	0	75,000
<b>Total EXPENDITURES</b>	<b>20,000</b>	<b>177,675</b>	<b>200,000</b>	<b>45,560</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>443,235</b>
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
GS002 Monroe Main Library Chiller Replacement	0	0	200,000	0	0	0	0	200,000
GS004 Historic County Courthouse Renovation Master Plan	0	75,000	0	0	0	0	0	75,000
PR056 Energy Savings Project	20,000	102,675	0	45,560	0	0	0	168,235
<b>Facilities Maintenance and Renewal</b>	<b>20,000</b>	<b>177,675</b>	<b>200,000</b>	<b>45,560</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>443,235</b>

# Monroe Main Library Chiller Replacement

General Services

Facilities Maintenance and Renewal

Requested

**Project Scope**

Ongoing Maintenance

Replace existing chiller at Monroe Main Library.

**Project Justification & 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 been made to the current chiller over the past two years. The current chiller could potentially require costly repairs should it go down during 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 Alternatives**

As the equipment ends its normal life cycle the odds for a complete failure are high. Repair/replacement is time consuming and lead times for this type of equipment can be long. Chances of failure are greater when the equipment is at its heaviest load.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
General PayGo	0	0	-200,000	0	0	0	0	-200,000
Total REVENUE	0	0	-200,000	0	0	0	0	-200,000
<b>EXPENDITURES</b>								
Construction	0	0	200,000	0	0	0	0	200,000
Total EXPENDITURES	0	0	200,000	0	0	0	0	200,000
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# Historic County Courthouse Renovation Master Plan

General Services

Facilities Maintenance and Renewal

Requested

**Project Scope**

Ongoing Maintenance

Project provides for a study of the Historic County Courthouse. The study will include, among other items, a long-term plan for renovation and possible usage. The study will be the basis for future renovation and restoration projects.

**Project Justification & 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.

**Project Alternatives**

The Historic Courthouse is used on a limited basis for special functions, historic tours, and other limited uses. In the absence of the study, some limited safety improvements will be required to secure the building on a long-term basis.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
General PayGo	0	-75,000	0	0	0	0	0	-75,000
Total REVENUE	0	-75,000	0	0	0	0	0	-75,000
<b>EXPENDITURES</b>								
Studies	0	75,000	0	0	0	0	0	75,000
Total EXPENDITURES	0	75,000	0	0	0	0	0	75,000
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0



# Energy Savings Project

General Services

Facilities Maintenance and Renewal

Requested

**Project Scope**

Ongoing Maintenance

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 & 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 Alternatives**

Lighting control projects are energy saving measures. If not completed there will be no energy savings. As HVAC equipment ends its normal life cycle, the odds for a complete failure are high. Current units use a cooling medium that is obsolete. Because of this, the existing stocks of cooling medium have quadrupled in price.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
General PayGo	-3,637	-102,675	0	-45,560	0	0	0	-151,872
Other Activities	-16,363	0	0	0	0	0	0	-16,363
<b>Total REVENUE</b>	<b>-20,000</b>	<b>-102,675</b>	<b>0</b>	<b>-45,560</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-168,235</b>
<b>EXPENDITURES</b>								
Construction	0	102,675	0	45,560	0	0	0	148,235
FF&E	20,000	0	0	0	0	0	0	20,000
<b>Total EXPENDITURES</b>	<b>20,000</b>	<b>102,675</b>	<b>0</b>	<b>45,560</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>168,235</b>
Project 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
General PayGo	-3,995,665	0	0	0	0	0	0	-3,995,665
Other Activities	-560,000	0	0	0	0	0	0	-560,000
<b>Total REVENUE</b>	<b>-4,555,665</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-4,555,665</b>
<b>EXPENDITURES</b>								
Construction	3,376,798	0	0	0	0	0	0	3,376,798
Land Acquisition	1,178,867	0	0	0	0	0	0	1,178,867
<b>Total EXPENDITURES</b>	<b>4,555,665</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,555,665</b>
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
PR020 Union County Sheriff's Office Firearms Training and Qualifications Range	4,555,665	0	0	0	0	0	0	4,555,665
Firearms Training and Qualifications	4,555,665	0	0	0	0	0	0	4,555,665

# Union County Sheriff's Office Firearms Training and Qualifications Range

Sheriff's Office

Firearms Training and Qualifications Range

Approved

**Project Scope**

New Facility

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 & 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 Alternatives**

Continue to use ranges belonging to other jurisdictions and face scheduling conflicts and inadequate training time for our officers.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
General PayGo	-3,995,665	0	0	0	0	0	0	-3,995,665
Other Activities	-560,000	0	0	0	0	0	0	-560,000
<b>Total REVENUE</b>	<b>-4,555,665</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-4,555,665</b>
<b>EXPENDITURES</b>								
Construction	3,376,798	0	0	0	0	0	0	3,376,798
Land Acquisition	1,178,867	0	0	0	0	0	0	1,178,867
<b>Total EXPENDITURES</b>	<b>4,555,665</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,555,665</b>
Project 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
General PayGo	0	-634,940	-52,265	0	0	0	0	-687,205
Grant Funding	0	-459,940	-52,265	0	0	0	0	-512,205
Total REVENUE	0	-1,094,880	-104,530	0	0	0	0	-1,199,410
<b>EXPENDITURES</b>								
Other Activities	0	1,094,880	104,530	0	0	0	0	1,199,410
Total EXPENDITURES	0	1,094,880	104,530	0	0	0	0	1,199,410
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
DS001 DSS Business Automation Systems Phase II	0	919,880	104,530	0	0	0	0	1,024,410
HL001 Electronic Medical Records	0	175,000	0	0	0	0	0	175,000
Human Services Automation and R	0	1,094,880	104,530	0	0	0	0	1,199,410



# DSS Business Automation Systems Phase II

Department of Social Services

Human Services Automation and Record Management

Requested

**Project Scope**

Other Projects

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 & 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 Alternatives**

Continue in a paper record environment.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
General PayGo	0	-459,940	-52,265	0	0	0	0	-512,205
Grant Funding	0	-459,940	-52,265	0	0	0	0	-512,205
Total REVENUE	0	-919,880	-104,530	0	0	0	0	-1,024,410
<b>EXPENDITURES</b>								
Other Activities	0	919,880	104,530	0	0	0	0	1,024,410
Total EXPENDITURES	0	919,880	104,530	0	0	0	0	1,024,410
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# Electronic Medical Records

Health

Human Services Automation and Record Management

Requested

## Project Scope

Other Projects

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

## Project Justification & 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 EHR 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.

## Project Alternatives

Medicare eligible professionals, or Eps, that do not adopt and successfully demonstrate meaningful use of a certified electronic health record (EHR) technology by 2015, will have their physician fee scheduled amount for covered professional services adjusted down by 1% each year. The adjustment schedule is as follows:

- 2015—99% of Medicare physician fee schedule covered amount
- 2016—98 % of Medicare physician fee schedule covered amount
- 2017 and each subsequent year—97% of Medicare physician fee schedule covered amount

If less than 75% of Eps have become meaningful users of EHRs by 2018, the adjustment will change by 1% point each year to a maximum of 5%(95% of Medicare covered amount).

EP's include:

- Physicians
- Nurse practitioners
- Certified nurse-midwives
- Dentists
- Physician assistants (Pas) in PA-led Federally Qualified Health Centers (FQHCs) or rural health clinics (RHCs)

Currently no payment adjustments are planned for Medicaid providers. However, Medicaid providers who also treat Medicare patients will have a payment adjustment to Medicare reimbursements starting in 2015 if they do not successfully demonstrate meaningful use.

## Project Financing Detail

# Electronic Medical Records

Health

Human Services Automation and Record Management

Requested

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
General PayGo	0	-175,000	0	0	0	0	0	-175,000
Total REVENUE	0	-175,000	0	0	0	0	0	-175,000
<b>EXPENDITURES</b>								
Other Activities	0	175,000	0	0	0	0	0	175,000
Total EXPENDITURES	0	175,000	0	0	0	0	0	175,000
Project 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
General PayGo	-150,000	-35,000,000	0	0	0	0	0	-35,150,000
Total REVENUE	-150,000	-35,000,000	0	0	0	0	0	-35,150,000
<b>EXPENDITURES</b>								
Construction	0	31,500,000	0	0	0	0	0	31,500,000
Design and Engineering	0	3,500,000	0	0	0	0	0	3,500,000
Studies	150,000	0	0	0	0	0	0	150,000
Total EXPENDITURES	150,000	35,000,000	0	0	0	0	0	35,150,000
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
PR059 HUMAN SERVICES CAMPUS	150,000	35,000,000	0	0	0	0	0	35,150,000
Human Services Campus	150,000	35,000,000	0	0	0	0	0	35,150,000



# HUMAN SERVICES CAMPUS

General Services

Human Services Campus

Requested

**Project Scope**

Facility Expansion/Replacement

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 & 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 which expires on June 30, 2015 is in the process of being extended through 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 pending extended 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.

**Project Alternatives**

Continue to lease the current facilities.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
General PayGo	-150,000	-35,000,000	0	0	0	0	0	-35,150,000
<b>Total REVENUE</b>	<b>-150,000</b>	<b>-35,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-35,150,000</b>
<b>EXPENDITURES</b>								
Construction	0	31,500,000	0	0	0	0	0	31,500,000
Design and Engineering	0	3,500,000	0	0	0	0	0	3,500,000
Studies	150,000	0	0	0	0	0	0	150,000
<b>Total EXPENDITURES</b>	<b>150,000</b>	<b>35,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,150,000</b>
Project 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
General PayGo	-774,000	-802,500	-339,238	0	-570,000	0	0	-2,485,738
Utility Fund Balance	0	-327,500	0	0	0	0	0	-327,500
<b>Total REVENUE</b>	<b>-774,000</b>	<b>-1,130,000</b>	<b>-339,238</b>	<b>0</b>	<b>-570,000</b>	<b>0</b>	<b>0</b>	<b>-2,813,238</b>
<b>EXPENDITURES</b>								
FF&E	774,000	475,000	339,238	0	0	0	0	1,588,238
Other Activities	0	655,000	0	0	0	0	0	655,000
TBA	0	0	0	0	570,000	0	0	570,000
<b>Total EXPENDITURES</b>	<b>774,000</b>	<b>1,130,000</b>	<b>339,238</b>	<b>0</b>	<b>570,000</b>	<b>0</b>	<b>0</b>	<b>2,813,238</b>
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
IT001 Phone System Upgrade to VoIP	0	655,000	0	0	0	0	0	655,000
IT002 Storage Area Network Replacement(SAN)	0	0	0	0	570,000	0	0	570,000
PR048 Countywide Document Imaging Program	774,000	475,000	339,238	0	0	0	0	1,588,238
<b>IT Infrastructure and Efficiency Enh</b>	<b>774,000</b>	<b>1,130,000</b>	<b>339,238</b>	<b>0</b>	<b>570,000</b>	<b>0</b>	<b>0</b>	<b>2,813,238</b>

# Phone System Upgrade to VoIP

Information Systems

IT Infrastructure and Efficiency Enhancements

Requested

**Project Scope**

Infrastructure Replacement

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 & 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 Alternatives**

Continue with the current system with full knowledge that we will not be able to take advantage of new technology, and expansion is not possible. Run the risk of not being able to service the phone switch. Taking a chance that we will be able to find the parts necessary to repair the system when needed.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
General PayGo	0	-327,500	0	0	0	0	0	-327,500
Utility Fund Balance	0	-327,500	0	0	0	0	0	-327,500
<b>Total REVENUE</b>	<b>0</b>	<b>-655,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-655,000</b>
<b>EXPENDITURES</b>								
Other Activities	0	655,000	0	0	0	0	0	655,000
<b>Total EXPENDITURES</b>	<b>0</b>	<b>655,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>655,000</b>
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# Storage Area Network Replacement(SAN)

Information Systems

IT Infrastructure and Efficiency Enhancements

Requested

**Project Scope**

Infrastructure Replacement

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 & History**

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

**Project Alternatives**

Continue with older technology and increased maintenance cost. This equipment will soon be ineligible for maintenance putting the County at risk of data loss, downtime and expensive recovery of information.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
General PayGo	0	0	0	0	-570,000	0	0	-570,000
Total REVENUE	0	0	0	0	-570,000	0	0	-570,000
<b>EXPENDITURES</b>								
TBA	0	0	0	0	570,000	0	0	570,000
Total EXPENDITURES	0	0	0	0	570,000	0	0	570,000
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0



# Countywide Document Imaging Program

Information Systems

IT Infrastructure and Efficiency Enhancements

Approved

**Project Scope**

Infrastructure Expansion

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

**Project Justification & History**

In December of 2007, Union County contracted with eVisory to perform an assessment of the document imaging (electronic content management) needs of the County. That document imaging assessment indicated the Department of Social Services (DSS) would derive the greatest benefit from document imaging. Other departments that would benefit were also identified. The findings of the document imaging assessment were shared with the Board of Commissioners at a Regular meeting in March of 2008.

In February of 2011, a Request for Proposal (RFP) for document imaging services was requested to provide the document imaging requirements of DSS. The responses to that RFP were received by the County in March of 2011.

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. In conjunction with this new application, the State is asking Counties to implement a document imaging system to capture the necessary supporting documentation of the client. The State was seeking Counties to pilot 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 NC Fast will be installed in June of 2012.

To meet the requirement of providing document imaging for NC Fast, the County, in December of 2011, requested another RFP which would 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.

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 Alternatives**

No County wide document imaging system, each department do their own Document Imaging project.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
General PayGo	-774,000	-475,000	-339,238	0	0	0	0	-1,588,238
Total REVENUE	-774,000	-475,000	-339,238	0	0	0	0	-1,588,238
<b>EXPENDITURES</b>								
FF&E	774,000	475,000	339,238	0	0	0	0	1,588,238
Total EXPENDITURES	774,000	475,000	339,238	0	0	0	0	1,588,238
Project 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 General Obligation Bonds	0	0	0	0	-3,061,384	-52,497,060	0	-55,558,444
General PayGo	-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
<b>Total REVENUE</b>	<b>-1,922,745</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,061,384</b>	<b>-52,497,060</b>	<b>0</b>	<b>-57,481,189</b>
<b>EXPENDITURES</b>								
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
<b>Total EXPENDITURES</b>	<b>1,922,745</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,061,384</b>	<b>52,497,060</b>	<b>0</b>	<b>57,481,189</b>
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
PR019 Replacement and Expansion of Jail and Sheriff's Office	1,922,745	0	0	0	3,061,384	52,497,060	0	57,481,189
Jail and Sheriff's Office Replaceme	1,922,745	0	0	0	3,061,384	52,497,060	0	57,481,189

# Replacement and Expansion of Jail and Sheriff's Office

Sheriff's Office

Jail and Sheriff's Office Replacement and Expansion Program

Requested

**Project Scope**

Facility Expansion/Replacement

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 & 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.

**Project Alternatives**

Maintain our current facility and operate under conditions that may result in litigation and/or compromised safety for employees.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 General Obligation Bonds	0	0	0	0	-3,061,384	-52,497,060	0	-55,558,444
General PayGo	-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
<b>Total REVENUE</b>	<b>-1,922,745</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,061,384</b>	<b>-52,497,060</b>	<b>0</b>	<b>-57,481,189</b>
<b>EXPENDITURES</b>								
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
<b>Total EXPENDITURES</b>	<b>1,922,745</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,061,384</b>	<b>52,497,060</b>	<b>0</b>	<b>57,481,189</b>
Project 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 General Obligation Bonds	0	0	0	0	-6,553,473	0	0	-6,553,473
Total REVENUE	0	0	0	0	-6,553,473	0	0	-6,553,473
<b>EXPENDITURES</b>								
Construction	0	0	0	0	6,183,204	0	0	6,183,204
Preliminary Design & Planning	0	0	0	0	370,269	0	0	370,269
Total EXPENDITURES	0	0	0	0	6,553,473	0	0	6,553,473
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
BW001 Jesse Helms Park Passive Area Phase II	0	0	0	0	2,192,380	0	0	2,192,380
BW002 Trail System (Pilot Project)	0	0	0	0	658,404	0	0	658,404
BW005 Jesse Helms Park Phase III	0	0	0	0	3,702,689	0	0	3,702,689
Jesse Helms Park Development	0	0	0	0	6,553,473	0	0	6,553,473



# Jesse Helms Park Passive Area Phase II

Parks and Recreation

Jesse Helms Park Development

Requested

**Project Scope**

New Facility

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 & 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 Alternatives**

Staff plans to use property as is until other infrastructure is added or constructed.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 General Obligation Bonds	0	0	0	0	-2,192,380	0	0	-2,192,380
Total REVENUE	0	0	0	0	-2,192,380	0	0	-2,192,380
<b>EXPENDITURES</b>								
Construction	0	0	0	0	2,192,380	0	0	2,192,380
Total EXPENDITURES	0	0	0	0	2,192,380	0	0	2,192,380
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# Trail System (Pilot Project)

Parks and Recreation

Jesse Helms Park Development

Requested

**Project Scope**

New Infrastructure

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

**Project Justification & 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 Alternatives**

Phase Trail Project. Phase One would be the complete trail system within JHP park boundaries only.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 General Obligation Bonds	0	0	0	0	-658,404	0	0	-658,404
Total REVENUE	0	0	0	0	-658,404	0	0	-658,404
<b>EXPENDITURES</b>								
Construction	0	0	0	0	658,404	0	0	658,404
Total EXPENDITURES	0	0	0	0	658,404	0	0	658,404
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# Jesse Helms Park Phase III

Parks and Recreation

Jesse Helms Park Development

Requested

**Project Scope**

New Facility

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 & History**

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

**Project Alternatives**

Continue using Passive Area as constructed

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 General Obligation Bonds	0	0	0	0	-3,702,689	0	0	-3,702,689
Total REVENUE	0	0	0	0	-3,702,689	0	0	-3,702,689
<b>EXPENDITURES</b>								
Construction	0	0	0	0	3,332,420	0	0	3,332,420
Preliminary Design & Planning	0	0	0	0	370,269	0	0	370,269
Total EXPENDITURES	0	0	0	0	3,702,689	0	0	3,702,689
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# Law Enforcement Facilities Expansion & Renewal

*Program Detail*

**Program Scope**

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

**Program Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
General PayGo	0	-250,000	-50,000	-700,000	0	0	0	-1,000,000
Total REVENUE	0	-250,000	-50,000	-700,000	0	0	0	-1,000,000
<b>EXPENDITURES</b>								
Construction	0	250,000	0	500,000	0	0	0	750,000
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	250,000	50,000	700,000	0	0	0	1,000,000
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
LE001 Sheriff's Office Renovations	0	0	50,000	700,000	0	0	0	750,000
LE002 STORAGE GARAGE SPECIAL RESPONSE VEHICLES	0	250,000	0	0	0	0	0	250,000
Law Enforcement Facilities Expansi	0	250,000	50,000	700,000	0	0	0	1,000,000



# Sheriff's Office Renovations

Sheriff's Office

Law Enforcement Facilities Expansion & Renewal

Requested

**Project Scope**

Facility Expansion

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 & 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 Alternatives**

The Sheriff's Office will continue to operate with inadequate space.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
General PayGo	0	0	-50,000	-700,000	0	0	0	-750,000
Total REVENUE	0	0	-50,000	-700,000	0	0	0	-750,000
<b>EXPENDITURES</b>								
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
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# STORAGE GARAGE SPECIAL RESPONSE VEHICLES

Sheriff's Office

Law Enforcement Facilities Expansion & Renewal

Requested

**Project Scope**

New Facility

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

**Project Justification & 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 Alternatives**

Special Response vehicles will continued to be stored as they are now

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
General PayGo	0	-250,000	0	0	0	0	0	-250,000
Total REVENUE	0	-250,000	0	0	0	0	0	-250,000
<b>EXPENDITURES</b>								
Construction	0	250,000	0	0	0	0	0	250,000
Total EXPENDITURES	0	250,000	0	0	0	0	0	250,000
Project 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Capital Reserve Fund	-94,766	0	0	0	0	0	0	-94,766
FY 2017 General Obligation Bonds	0	0	0	0	-1,986,057	-17,874,510	0	-19,860,567
General PayGo	0	0	0	0	0	0	0	0
Other Activities	0	0	0	0	0	0	0	0
<b>Total REVENUE</b>	<b>-94,766</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-1,986,057</b>	<b>-17,874,510</b>	<b>0</b>	<b>-19,955,333</b>
<b>EXPENDITURES</b>								
Construction	0	0	0	0	0	17,874,510	0	17,874,510
Other Activities	43,433	0	0	0	0	0	0	43,433
Preliminary Design & Planning	25,508	0	0	0	1,986,057	0	0	2,011,565
Site work	25,825	0	0	0	0	0	0	25,825
<b>Total EXPENDITURES</b>	<b>94,766</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,986,057</b>	<b>17,874,510</b>	<b>0</b>	<b>19,955,333</b>
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
6117 SOUTHWEST UNION LIBRARY	94,766	0	0	0	1,293,657	11,642,910	0	13,031,333
LIB001 Union West Regional Library Expansion	0	0	0	0	692,400	6,231,600	0	6,924,000
<b>Library Expansion and Development</b>	<b>94,766</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,986,057</b>	<b>17,874,510</b>	<b>0</b>	<b>19,955,333</b>

# SOUTHWEST UNION LIBRARY

Library

Library Expansion and Development

Requested

**Project Scope**

Facility Expansion/Replacement

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 & 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 Alternatives**

Because it is untenable to continue operating the 2,903 SF Waxhaw Branch Library with limited library services and parking for only 3 patrons, the alternative is to lease space until the new library can be built.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Capital Reserve Fund	-94,766	0	0	0	0	0	0	-94,766
FY 2017 General Obligation Bonds	0	0	0	0	-1,293,657	-11,642,910	0	-12,936,567
General PayGo	0	0	0	0	0	0	0	0
Other Activities	0	0	0	0	0	0	0	0
<b>Total REVENUE</b>	<b>-94,766</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-1,293,657</b>	<b>-11,642,910</b>	<b>0</b>	<b>-13,031,333</b>
<b>EXPENDITURES</b>								
Construction	0	0	0	0	0	11,642,910	0	11,642,910
Other Activities	43,433	0	0	0	0	0	0	43,433
Preliminary Design & Planning	25,508	0	0	0	1,293,657	0	0	1,319,165
Site work	25,825	0	0	0	0	0	0	25,825
<b>Total EXPENDITURES</b>	<b>94,766</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,293,657</b>	<b>11,642,910</b>	<b>0</b>	<b>13,031,333</b>
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# Union West Regional Library Expansion

Library

Library Expansion and Development

Requested

**Project Scope**

Facility Expansion

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

**Project Justification & 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 Alternatives**

Keep operating the 12,000 SF Library and open a new South Western Regional Library to help alleviate some of the traffic and circulation.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 General Obligation Bonds	0	0	0	0	-692,400	-6,231,600	0	-6,924,000
Total REVENUE	0	0	0	0	-692,400	-6,231,600	0	-6,924,000
<b>EXPENDITURES</b>								
Construction	0	0	0	0	0	6,231,600	0	6,231,600
Preliminary Design & Planning	0	0	0	0	692,400	0	0	692,400
Total EXPENDITURES	0	0	0	0	692,400	6,231,600	0	6,924,000
Project 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, land banking, and other related projects.

**Program Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 General Obligation Bonds	0	0	0	0	-6,500,000	0	0	-6,500,000
General PayGo	0	-100,000	0	0	0	-800,000	0	-900,000
Total REVENUE	0	-100,000	0	0	-6,500,000	-800,000	0	-7,400,000
<b>EXPENDITURES</b>								
Land Acquisition	0	0	0	0	6,500,000	0	0	6,500,000
Studies	0	100,000	0	0	0	0	0	100,000
TBA	0	0	0	0	0	800,000	0	800,000
Total EXPENDITURES	0	100,000	0	0	6,500,000	800,000	0	7,400,000
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
BW003 Parks Comprehensive Master Plan	0	100,000	0	0	0	0	0	100,000
BW004 Park Land Banking	0	0	0	0	6,500,000	0	0	6,500,000
BW006 Cane Creek Park Renovation Project (Partial)	0	0	0	0	0	800,000	0	800,000
Park Development and Renewal	0	100,000	0	0	6,500,000	800,000	0	7,400,000

# Parks Comprehensive Master Plan

Parks and Recreation

Park Development and Renewal

Requested

**Project Scope**

Planning for Future Needs

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

**Project Justification & 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 Alternatives**

Continue to use current 2006 Master Plan

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
General PayGo	0	-100,000	0	0	0	0	0	-100,000
Total REVENUE	0	-100,000	0	0	0	0	0	-100,000
<b>EXPENDITURES</b>								
Studies	0	100,000	0	0	0	0	0	100,000
Total EXPENDITURES	0	100,000	0	0	0	0	0	100,000
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# Park Land Banking

Parks and Recreation

Park Development and Renewal

Requested

**Project Scope**

Other Projects

Project provides for a land banking program to acquire land to address the future park demands as the County develops.

**Project Justification & History**

The 2006 Parks and Recreation Comprehensive Master Plan Update recommend an additional "District Park" and the creation of a "School Park" within Union County. This land banking effort is to procure land for these projects.

A district park requires between 200-400 acres of land and a school park requires an additional ten acres (minimal) of land adjacent to a school. Due to the economic downturn, land prices have fallen over the last few years. Obtaining land at this time could save tax dollars. Large tracks of land (200-400 acres) are becoming more difficult to locate.

**Project Alternatives**

"Just-in-time" purchase of land for park development once identified or seek donations

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 General Obligation Bonds	0	0	0	0	-6,500,000	0	0	-6,500,000
Total REVENUE	0	0	0	0	-6,500,000	0	0	-6,500,000
<b>EXPENDITURES</b>								
Land Acquisition	0	0	0	0	6,500,000	0	0	6,500,000
Total EXPENDITURES	0	0	0	0	6,500,000	0	0	6,500,000
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# Cane Creek Park Renovation Project (Partial)

Parks and Recreation

Park Development and Renewal

Requested

**Project Scope**

Facility Expansion

Project provides for the replacement and expansion of various facilities

**Project Justification & History**

The Nature Center will be used to provide educational opportunities to visitors of the park (schools, daycares, etc.).

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 campsites drives , making them more accessible and customer friendly.

**Project Alternatives**

Utilize facility under current standards

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total	
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019		
<b>REVENUE</b>									
General PayGo	0	0	0	0	0	0	-800,000	0	-800,000
Total REVENUE	0	0	0	0	0	0	-800,000	0	-800,000
<b>EXPENDITURES</b>									
TBA	0	0	0	0	0	0	800,000	0	800,000
Total EXPENDITURES	0	0	0	0	0	0	800,000	0	800,000
Project Revenue (Over)/Under Exp.	0	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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Installment Financing	0	0	0	0	-2,400,000	0	0	-2,400,000
Total REVENUE	0	0	0	0	-2,400,000	0	0	-2,400,000
<b>EXPENDITURES</b>								
Other Activities	0	0	0	0	2,400,000	0	0	2,400,000
Total EXPENDITURES	0	0	0	0	2,400,000	0	0	2,400,000
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
TX001 UPGRADE OR REPLACEMENT OF SOFTWARE	0	0	0	0	2,400,000	0	0	2,400,000
Tax Assessment and Administration	0	0	0	0	2,400,000	0	0	2,400,000



# UPGRADE OR REPLACEMENT OF SOFTWARE

Tax Administration

Tax Assessment and Administration Software Replacement

Requested

**Project Scope**

Planning for Future Needs

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

**Project Justification & 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 Alternatives**

Continue using unsupported software on unsupported operating system and database.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Installment Financing	0	0	0	0	-2,400,000	0	0	-2,400,000
Total REVENUE	0	0	0	0	-2,400,000	0	0	-2,400,000
<b>EXPENDITURES</b>								
Other Activities	0	0	0	0	2,400,000	0	0	2,400,000
Total EXPENDITURES	0	0	0	0	2,400,000	0	0	2,400,000
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

## Public Works Capital Program

The proposed 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 proposed 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.

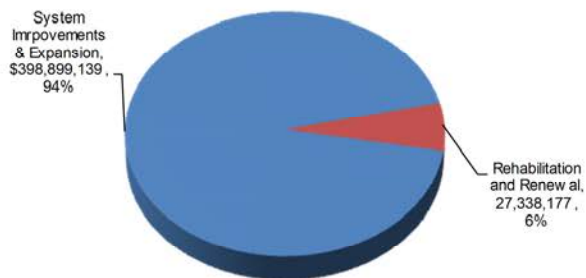
In addition to the water and wastewater programs, the PWCP addresses the capital needs of the County's Solid Waste System.

### Program Highlights

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

Fiscal Year	System I & E	System R&R	Total
Funded-To-Date	\$ 36,964,525	5,263,077	42,227,602
FY 2014 Proposed	57,002,230	4,021,100	61,023,330
FY 2015 Planned	34,524,200	4,664,000	39,188,200
FY 2016 Planned	97,533,200	3,052,000	100,585,200
FY 2017 Planned	14,335,400	3,584,000	17,919,400
FY 2018 Planned	113,470,500	3,450,000	116,920,500
FY 2019 Planned	45,069,084	3,304,000	48,373,084
Total	\$ 398,899,139	27,338,177	426,237,316

### Public Works Capital Program



System improvements and expansion projects focus on meeting the future capacity needs of the system based

on the current system modeling. By 2020, the water total flow demand is anticipated to grow to 29.7 million gallons daily and wastewater to 14.9 million gallons daily. The proposed \$398,899,139 System I&E Program is necessary to meet these and anticipated future

Water and Wastewater Six-Year Program	Program Total
<b>System Improvements and Expansion</b>	
853 South Zone Improvements	\$ 14,975,600
853 West Zone Improvements	26,591,300
935 Zone Improvements	413,400
Additional Anson Capacity	14,496,200
Crooked Creek Basin Improvements	18,375,950
CRWTP Improvements	42,649,820
Developer Funded Projects	37,292,884
Eastside Wastewater Improvements	12,564,962
New 880 Pressure Zone	12,933,597
New Eastern Water Supply	129,064,010
New Lake Twitty Sewer Shed	5,301,300
Short Line Extensions	4,010,000
Town Center Sewer Development	1,959,340
Twelve Mile Creek WWTP System Improvements	67,605,400
UCPW Buildings and Improvements	10,665,376
<b>Total System Expansion Programs</b>	<b>\$ 398,899,139</b>

### System Rehabilitation and Renewal Programs

Wastewater Pump Station Improvements	\$ 3,453,700
Wastewater Rehabilitation and Replacement	11,207,960
Water & Wastewater Master Plan	530,000
Water Rehabilitation and Replacement	10,880,267
Water Tank Rehabilitation	1,266,250
<b>Total System Rehabilitation and Renewal Programs</b>	<b>\$ 27,338,177</b>

demands.

Rehabilitation and renewal programs are the ongoing infrastructure maintenance projects that ensure the sustainability of the existing infrastructure. The \$27,338,177 System R&R program is necessary to provide for the system needs and reflects an average annual investment of \$3.7 million during the six-year plan.

Solid Waste Rehabilitation and Renewal Six-Year Program	Program Total
General Replacement and Renewal	\$ 1,872,000
<b>Total Solid Waste Rehabilitation and Renewal</b>	<b>\$ 1,872,000</b>

Beyond the Water and Wastewater projects, the proposed PWCP includes a capital investment in the Solid Waste Program. The \$1,872,000 proposed program reflects an investment in heavy equipment for collections and use at the landfill.

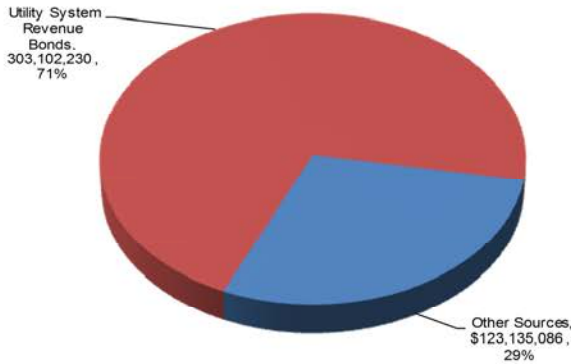




## Funding Strategy

Fiscal Year	Utility Other Sources	Utility System Revenue Bonds	Total
Funded-To-Date	\$ 42,227,602	-	42,227,602
FY 2014 Proposed	11,602,900	49,420,430	61,023,330
FY 2015 Planned	12,656,400	26,531,800	39,188,200
FY 2016 Planned	5,722,500	94,862,700	100,585,200
FY 2017 Planned	4,166,400	13,753,000	17,919,400
FY 2018 Planned	4,416,000	112,504,500	116,920,500
FY 2019 Planned	42,343,284	6,029,800	48,373,084
<b>Total</b>	<b>\$ 123,135,086</b>	<b>303,102,230</b>	<b>426,237,316</b>

### Public Works Capital Program



The proposed PWCP is funded through several different sources. The primary funding, 71 percent comes through the issuance of Utility System Revenue Bonds. The proposed PWCP finance plan includes the issuance of 2015 Revenue Bonds at \$97.2 million, 2017 Revenue Bonds at \$200.6 million, 2019 Revenue Bonds at \$5.3 million for \$303,102,230 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 \$29.3 million annually.

Fiscal Year	Principal	Interest	Total
Current Debt Svc.	\$ 4,225,797	2,374,681	6,600,477
FY 2014 Proposed	3,901,932	2,209,440	6,111,372
FY 2015 Planned	3,940,126	2,068,097	6,008,223
FY 2016 Planned	7,263,810	6,381,484	13,645,294
FY 2017 Planned	7,113,697	6,478,314	13,592,010
FY 2018 Planned	13,930,000	15,384,551	29,314,551
FY 2019 Planned	13,750,000	15,589,672	29,339,672
<b>Total</b>	<b>\$ 54,125,360</b>	<b>50,486,240</b>	<b>104,611,600</b>

Revenue bond debt is proposed 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 proposed PWCP includes estimated funding from grants, developer contributions, and pay-as-you-go (PayGo) funding from current revenues.

	Program Total
Developer Funding	\$ 41,191,404
Grant Funding	1,961,300
Utility PayGo	79,982,382
<b>Total Funding</b>	<b>\$ 123,135,086</b>

The PayGo funding, which comprises 65 percent of the other sources, comes through connection fees from new customers, user fees charged to customers, and capital fund balance.

Fiscal Year	PayGo
Funded-To-Date	\$ 36,367,782
FY 2014 Proposed	11,602,900
FY 2015 Planned	12,656,400
FY 2016 Planned	5,722,500
FY 2017 Planned	4,166,400
FY 2018 Planned	4,416,000
FY 2019 Planned	5,050,400
<b>Total</b>	<b>\$ 79,982,382</b>

The PayGo funding is primarily programmed for the ongoing system rehabilitation and renewal projects. The principled 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 maintenance needed.

The anticipated Developer Contributions 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.



The proposed funding for the Solid Waste Equipment is a mix of installment financing and Solid Waste fund balance. The financing tools will be refined and recommended as part of the purchase of the equipment and is dependent upon current market conditions and the fiscal health of the Solid Waste Program.

	Program Total
Installment Financing	\$ 1,270,000
Solid Waste Reserve Funds	600,000
<b>Total Funding</b>	<b>\$ 1,870,000</b>

**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 expansion projects as the scopes and operating plans become better defined.

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# Funding and Program Summary

## Public Works Capital Program

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>Funding Sources</b>								
Developer Funded	-3,898,520	0	0	0	0	0	-37,292,884	-41,191,404
FY 2015 Water and Wastewater Rev Bonds	0	-46,454,030	-18,751,400	-32,013,300	0	0	0	-97,218,730
FY 2017 Water and Wastewater Rev Bonds	0	-2,966,400	-7,780,400	-62,849,400	-13,753,000	-112,171,000	-1,062,000	-200,582,200
FY 2019 Water and Wastewater Rev Bonds	0	0	0	0	0	-333,500	-4,967,800	-5,301,300
Grant Funding	-1,961,300	0	0	0	0	0	0	-1,961,300
Installment Financing	0	0	0	-825,000	-225,000	0	-220,000	-1,270,000
Solid Waste Reserve Funds	0	-300,000	-150,000	0	0	-150,000	0	-600,000
Utility Pay Go	-36,367,782	-11,602,900	-12,656,400	-5,722,500	-4,166,400	-4,416,000	-5,050,400	-79,982,382
<b>Total Funding Sources</b>	<b>-42,227,602</b>	<b>-61,323,330</b>	<b>-39,338,200</b>	<b>-101,410,200</b>	<b>-18,144,400</b>	<b>-117,070,500</b>	<b>-48,593,084</b>	<b>-428,107,316</b>
<b>Programs</b>								
853 South Zone Improvements	0	412,000	1,113,000	13,450,600	0	0	0	14,975,600
853 West Zone Improvements	0	412,000	2,014,000	24,165,300	0	0	0	26,591,300
935 Zone Improvements	0	0	0	0	22,400	391,000	0	413,400
Additional Anson Capacity	188,700	3,553,200	2,183,600	2,343,500	6,227,200	0	0	14,496,200
Crooked Creek Basin Improvements	261,300	2,425,650	8,003,000	3,357,200	2,116,800	1,150,000	1,062,000	18,375,950
CRWTP Improvements	6,911,540	20,369,280	0	15,369,000	0	0	0	42,649,820
Developer Funded Projects	0	0	0	0	0	0	37,292,884	37,292,884
Eastside Wastewater Improvements	8,843,362	0	2,565,200	0	0	0	1,156,400	12,564,962
General Replacement and Renewal Projects	0	300,000	150,000	825,000	225,000	150,000	220,000	1,870,000
New 880 Pressure Zone	5,249,797	7,683,800	0	0	0	0	0	12,933,597
New Eastern Water Supply	2,249,510	0	5,119,800	5,264,700	5,409,000	111,021,000	0	129,064,010
New Lake Twitty Sewer Shed	0	0	0	0	0	333,500	4,967,800	5,301,300
Short Line Extensions	695,000	515,000	530,000	545,000	560,000	575,000	590,000	4,010,000
Town Center Sewer Development	125,940	1,833,400	0	0	0	0	0	1,959,340
Twelve Mile Creek WWTP System Improvements	9,983,100	11,588,800	12,995,600	33,037,900	0	0	0	67,605,400
UCPW Buildings & Improvements	2,456,276	8,209,100	0	0	0	0	0	10,665,376
Wastewater Pump Station Improvements	500,000	92,700	1,166,000	327,000	784,000	230,000	354,000	3,453,700
Wastewater Rehabilitation and Replacement	3,914,960	1,133,000	1,166,000	1,199,000	1,232,000	1,265,000	1,298,000	11,207,960
Water & Wastewater Master Planning	0	0	530,000	0	0	0	0	530,000
Water Rehabilitation and Replacement	794,867	2,245,400	1,484,000	1,526,000	1,568,000	1,610,000	1,652,000	10,880,267
Water Tank Rehabilitation	53,250	550,000	318,000	0	0	345,000	0	1,266,250
<b>Total Programs</b>	<b>42,227,602</b>	<b>61,323,330</b>	<b>39,338,200</b>	<b>101,410,200</b>	<b>18,144,400</b>	<b>117,070,500</b>	<b>48,593,084</b>	<b>428,107,316</b>

# 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2015 Water and Wastewater Rev Bonds	0	-412,000	-1,113,000	-13,450,600	0	0	0	-14,975,600
<b>Total REVENUE</b>	<b>0</b>	<b>-412,000</b>	<b>-1,113,000</b>	<b>-13,450,600</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-14,975,600</b>
<b>EXPENDITURES</b>								
Construction	0	0	0	13,450,600	0	0	0	13,450,600
Design and Engineering	0	0	1,113,000	0	0	0	0	1,113,000
Land Acquisition	0	412,000	0	0	0	0	0	412,000
<b>Total EXPENDITURES</b>	<b>0</b>	<b>412,000</b>	<b>1,113,000</b>	<b>13,450,600</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14,975,600</b>
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
WT057 853 SOUTH ZONE TANK	0	412,000	127,200	1,558,700	0	0	0	2,097,900
WT058 853 ZONE TRANSMISSION MAIN IMPROVEMENTS	0	0	985,800	11,891,900	0	0	0	12,877,700
<b>853 South Zone Improvements</b>	<b>0</b>	<b>412,000</b>	<b>1,113,000</b>	<b>13,450,600</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14,975,600</b>



# 853 SOUTH ZONE TANK

Public Works

853 South Zone Improvements

Approved

**Project Scope**

New Infrastructure

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

**Project Justification & History**

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

**Project Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2015 Water and Wastewater Rev Bonds	0	-412,000	-127,200	-1,558,700	0	0	0	-2,097,900
<b>Total REVENUE</b>	<b>0</b>	<b>-412,000</b>	<b>-127,200</b>	<b>-1,558,700</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-2,097,900</b>
<b>EXPENDITURES</b>								
Construction	0	0	0	1,558,700	0	0	0	1,558,700
Design and Engineering	0	0	127,200	0	0	0	0	127,200
Land Acquisition	0	412,000	0	0	0	0	0	412,000
<b>Total EXPENDITURES</b>	<b>0</b>	<b>412,000</b>	<b>127,200</b>	<b>1,558,700</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,097,900</b>
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# 853 ZONE TRANSMISSION MAIN IMPROVEMENTS

Public Works

853 South Zone Improvements

Approved

**Project Scope**

New Infrastructure

Project provides for the installation and development of the 853 South Zone Transmission Main - 38,000 linear feet of 16" Main, 853 West/South pressure reducing valve - to supply 853 South Zone, the 853 South Zone Transmission Main - 38,000 linear of 12" Main, and other necessary improvements.

**Project Justification & History**

The 2011 Master Plan identified various improvements needed within the 853 South Zone Service Area to increase fire flow and system capacity. Included in these improvements are the installation of the 853 West/South PRV to supply the South Zone and construction of 76,000 LF of 16" and 12" water main to distribute the water within the Service Area.

**Project Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2015 Water and Wastewater Rev Bonds	0	0	-985,800	-11,891,900	0	0	0	-12,877,700
Total REVENUE	0	0	-985,800	-11,891,900	0	0	0	-12,877,700
<b>EXPENDITURES</b>								
Construction	0	0	0	11,891,900	0	0	0	11,891,900
Design and Engineering	0	0	985,800	0	0	0	0	985,800
Total EXPENDITURES	0	0	985,800	11,891,900	0	0	0	12,877,700
Project Revenue (Over)/Under Exp.	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 provides sufficient water supply and fire flow in the area.

**Program Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 Water and Wastewater Rev Bonds	0	-412,000	-2,014,000	-24,165,300	0	0	0	-26,591,300
<b>Total REVENUE</b>	<b>0</b>	<b>-412,000</b>	<b>-2,014,000</b>	<b>-24,165,300</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-26,591,300</b>
<b>EXPENDITURES</b>								
Construction	0	0	0	24,165,300	0	0	0	24,165,300
Design and Engineering	0	0	2,014,000	0	0	0	0	2,014,000
Land Acquisition	0	412,000	0	0	0	0	0	412,000
<b>Total EXPENDITURES</b>	<b>0</b>	<b>412,000</b>	<b>2,014,000</b>	<b>24,165,300</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>26,591,300</b>
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
WT060 IT ADDITIONAL TANK 1/WATKINS BPS IMPROVEMENTS	0	412,000	339,200	3,934,900	0	0	0	4,686,100
WT061 853 WEST ZONE TRANSMISSION MAIN	0	0	1,674,800	20,230,400	0	0	0	21,905,200
<b>853 West Zone Improvements</b>	<b>0</b>	<b>412,000</b>	<b>2,014,000</b>	<b>24,165,300</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>26,591,300</b>

# IT ADDITIONAL TANK 1/WATKINS BPS IMPROVEMENTS

Public Works

853 West Zone Improvements

Approved

**Project Scope**

New Infrastructure

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 & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 Water and Wastewater Rev Bonds	0	-412,000	-339,200	-3,934,900	0	0	0	-4,686,100
<b>Total REVENUE</b>	<b>0</b>	<b>-412,000</b>	<b>-339,200</b>	<b>-3,934,900</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-4,686,100</b>
<b>EXPENDITURES</b>								
Construction	0	0	0	3,934,900	0	0	0	3,934,900
Design and Engineering	0	0	339,200	0	0	0	0	339,200
Land Acquisition	0	412,000	0	0	0	0	0	412,000
<b>Total EXPENDITURES</b>	<b>0</b>	<b>412,000</b>	<b>339,200</b>	<b>3,934,900</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,686,100</b>
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# 853 WEST ZONE TRANSMISSION MAIN

Public Works

853 West Zone Improvements

Approved

**Project Scope**

New Infrastructure

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 - 17,000 LF of 16" Main; 853 West Zone Transmission Main - 9,000 LF of 16" Main; and other necessary improvements.

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 Water and Wastewater Rev Bonds	0	0	-1,674,800	-20,230,400	0	0	0	-21,905,200
Total REVENUE	0	0	-1,674,800	-20,230,400	0	0	0	-21,905,200
<b>EXPENDITURES</b>								
Construction	0	0	0	20,230,400	0	0	0	20,230,400
Design and Engineering	0	0	1,674,800	0	0	0	0	1,674,800
Total EXPENDITURES	0	0	1,674,800	20,230,400	0	0	0	21,905,200
Project 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	0	0	0	0	-22,400	-391,000	0	-413,400
Total REVENUE	0	0	0	0	-22,400	-391,000	0	-413,400
<b>EXPENDITURES</b>								
Construction	0	0	0	0	0	391,000	0	391,000
Design and Engineering	0	0	0	0	22,400	0	0	22,400
Total EXPENDITURES	0	0	0	0	22,400	391,000	0	413,400
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
UT008 NEW STALLINGS BPS EXPANSION	0	0	0	0	22,400	391,000	0	413,400
935 Zone Improvements	0	0	0	0	22,400	391,000	0	413,400



# NEW STALLINGS BPS EXPANSION

Public Works

935 Zone Improvements

Requested

**Project Scope**

New Infrastructure

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 & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	0	0	0	0	-22,400	-391,000	0	-413,400
Total REVENUE	0	0	0	0	-22,400	-391,000	0	-413,400
<b>EXPENDITURES</b>								
Construction	0	0	0	0	0	391,000	0	391,000
Design and Engineering	0	0	0	0	22,400	0	0	22,400
Total EXPENDITURES	0	0	0	0	22,400	391,000	0	413,400
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# Additional Anson Capacity

Program Detail

**Program Scope**

Program provides for the various improvements will be needed within the Anson County Service Area to increase the system capacity and to improve system hydraulics. These projects include transmission main improvements, upgrades to existing Water Booster Pumping Stations, new elevated storage tank in Marshville and other necessary improvements.

**Program Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 Water and Wastewater Rev Bonds	0	-453,200	-646,600	-2,343,500	-6,227,200	0	0	-9,670,500
Utility Pay Go	-188,700	-3,100,000	-1,537,000	0	0	0	0	-4,825,700
<b>Total REVENUE</b>	<b>-188,700</b>	<b>-3,553,200</b>	<b>-2,183,600</b>	<b>-2,343,500</b>	<b>-6,227,200</b>	<b>0</b>	<b>0</b>	<b>-14,496,200</b>
<b>EXPENDITURES</b>								
Construction	0	0	1,791,400	1,831,200	6,227,200	0	0	9,849,800
Design and Engineering	188,700	41,200	392,200	512,300	0	0	0	1,134,400
Land Acquisition	0	412,000	0	0	0	0	0	412,000
Other Activities	0	3,100,000	0	0	0	0	0	3,100,000
<b>Total EXPENDITURES</b>	<b>188,700</b>	<b>3,553,200</b>	<b>2,183,600</b>	<b>2,343,500</b>	<b>6,227,200</b>	<b>0</b>	<b>0</b>	<b>14,496,200</b>
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
MW015 762 ZONE TRANSMISSION MAIN (BYPASS)	188,700	0	1,537,000	0	0	0	0	1,725,700
UT013 CAPITAL PAYMENT PER PROPOSED ANSON AGREEMENT	0	3,100,000	0	0	0	0	0	3,100,000
WT055 ANSON DISTRIBUTION SYSTEM IMPROVEMENTS	0	41,200	455,800	0	0	0	0	497,000
WT059 NEW ADDITIONAL MARSHVILLE TANK	0	412,000	190,800	1,831,200	0	0	0	2,434,000
WT062 762 ZONE MAIN	0	0	0	512,300	6,227,200	0	0	6,739,500
<b>Additional Anson Capacity</b>	<b>188,700</b>	<b>3,553,200</b>	<b>2,183,600</b>	<b>2,343,500</b>	<b>6,227,200</b>	<b>0</b>	<b>0</b>	<b>14,496,200</b>

# 762 ZONE TRANSMISSION MAIN (BYPASS)

Public Works

Additional Anson Capacity

Approved

**Project Scope**

New Infrastructure

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 & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	-188,700	0	-1,537,000	0	0	0	0	-1,725,700
<b>Total REVENUE</b>	<b>-188,700</b>	<b>0</b>	<b>-1,537,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-1,725,700</b>
<b>EXPENDITURES</b>								
Construction	0	0	1,335,600	0	0	0	0	1,335,600
Design and Engineering	188,700	0	201,400	0	0	0	0	390,100
<b>Total EXPENDITURES</b>	<b>188,700</b>	<b>0</b>	<b>1,537,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,725,700</b>
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# CAPITAL PAYMENT PER PROPOSED ANSON AGREEMENT

Public Works

Additional Anson Capacity

Requested

**Project Scope**

Other Projects

Based on the new draft water supply agreement with Anson County, the project provides the required one-time payment of 50% of capital improvements needed within Anson County to supply 6.0 MGD of capacity to Union County.

**Project Justification & History**

The Comprehensive Water and Wastewater Master Plan identified the need for additional Water Supply from the Yadkin River Basin. This additional capacity from Anson will help Public Works manage your current Inter Basin Transfer.

**Project Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	0	-3,100,000	0	0	0	0	0	-3,100,000
Total REVENUE	0	-3,100,000	0	0	0	0	0	-3,100,000
<b>EXPENDITURES</b>								
Other Activities	0	3,100,000	0	0	0	0	0	3,100,000
Total EXPENDITURES	0	3,100,000	0	0	0	0	0	3,100,000
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# ANSON DISTRIBUTION SYSTEM IMPROVEMENTS

Public Works

Additional Anson Capacity

Approved

**Project Scope**

Replacement and Renewal

Project provides for Hwy 74 Booster Pump Station Pump Improvements - (Increases Pump Capacity to 6MGD by adding 1 pump) and Olive Branch BPS Pump Improvements - (Increase Pump Capacity to 3 MGD by replacing impellers.

**Project Justification & 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. Water infrastructure required to distribute this increased capacity will include improvements to the Hwy 74 BPS and to the Olive Branch BPS. These improvements will consist of adding a pump to the Hwy 74 BPS and impellers to the Olive Branch BPS.

**Project Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 Water and Wastewater Rev Bonds	0	-41,200	-455,800	0	0	0	0	-497,000
Total REVENUE	0	-41,200	-455,800	0	0	0	0	-497,000
<b>EXPENDITURES</b>								
Construction	0	0	455,800	0	0	0	0	455,800
Design and Engineering	0	41,200	0	0	0	0	0	41,200
Total EXPENDITURES	0	41,200	455,800	0	0	0	0	497,000
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# NEW ADDITIONAL MARSHVILLE TANK

Public Works

Additional Anson Capacity

Approved

**Project Scope**

New Infrastructure

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

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 Water and Wastewater Rev Bonds	0	-412,000	-190,800	-1,831,200	0	0	0	-2,434,000
<b>Total REVENUE</b>	<b>0</b>	<b>-412,000</b>	<b>-190,800</b>	<b>-1,831,200</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-2,434,000</b>
<b>EXPENDITURES</b>								
Construction	0	0	0	1,831,200	0	0	0	1,831,200
Design and Engineering	0	0	190,800	0	0	0	0	190,800
Land Acquisition	0	412,000	0	0	0	0	0	412,000
<b>Total EXPENDITURES</b>	<b>0</b>	<b>412,000</b>	<b>190,800</b>	<b>1,831,200</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,434,000</b>
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0



# 762 ZONE MAIN

Public Works

Additional Anson Capacity

Approved

**Project Scope**

New Infrastructure

Project provides for improvements within the Anson County Service Area including 47,000 LF of 12-inch water main and other necessary improvements.

**Project Justification & 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 provide needed fire flow into the 762 zone, the installation 47,000 lf of 12 inch water main will be required.

**Project Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 Water and Wastewater Rev Bonds	0	0	0	-512,300	-6,227,200	0	0	-6,739,500
Total REVENUE	0	0	0	-512,300	-6,227,200	0	0	-6,739,500
<b>EXPENDITURES</b>								
Construction	0	0	0	0	6,227,200	0	0	6,227,200
Design and Engineering	0	0	0	512,300	0	0	0	512,300
Total EXPENDITURES	0	0	0	512,300	6,227,200	0	0	6,739,500
Project 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2015 Water and Wastewater Rev Bonds	0	-2,425,650	-8,003,000	-3,193,700	0	0	0	-13,622,350
FY 2017 Water and Wastewater Rev Bonds	0	0	0	-163,500	-2,116,800	-1,150,000	-1,062,000	-4,492,300
Utility Pay Go	-261,300	0	0	0	0	0	0	-261,300
<b>Total REVENUE</b>	<b>-261,300</b>	<b>-2,425,650</b>	<b>-8,003,000</b>	<b>-3,357,200</b>	<b>-2,116,800</b>	<b>-1,150,000</b>	<b>-1,062,000</b>	<b>-18,375,950</b>
<b>EXPENDITURES</b>								
Construction	0	1,508,950	8,003,000	3,193,700	2,027,200	1,058,000	1,062,000	16,852,850
Design and Engineering	261,300	916,700	0	163,500	89,600	92,000	0	1,523,100
<b>Total EXPENDITURES</b>	<b>261,300</b>	<b>2,425,650</b>	<b>8,003,000</b>	<b>3,357,200</b>	<b>2,116,800</b>	<b>1,150,000</b>	<b>1,062,000</b>	<b>18,375,950</b>
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
SP017 CC HEADWORKS IMPROVEMENTS	0	659,200	8,003,000	0	0	0	0	8,662,200
SW029 CC I&I STUDY & REMEDIATION	261,300	1,508,950	0	0	0	0	0	1,770,250
SW030 CC INTERCEPTOR IMPROVEMENTS PH I	0	257,500	0	3,193,700	0	0	0	3,451,200
UT001 CROOKED CREEK INTERCEPTOR IMPROVEMENTS PHS 2	0	0	0	163,500	2,027,200	0	0	2,190,700
UT002 CROOKED CREEK INTERCEPTOR IMPROVEMENTS PHS 3	0	0	0	0	89,600	1,058,000	0	1,147,600
UT003 FOREST PARK PS REPLACEMENT & INTERCEPTOR IMPROVEMENTS	0	0	0	0	0	92,000	1,062,000	1,154,000
<b>Crooked Creek Basin Improvement</b>	<b>261,300</b>	<b>2,425,650</b>	<b>8,003,000</b>	<b>3,357,200</b>	<b>2,116,800</b>	<b>1,150,000</b>	<b>1,062,000</b>	<b>18,375,950</b>

# CC HEADWORKS IMPROVEMENTS

Public Works

Crooked Creek Basin Improvements

Approved

**Project Scope**

Infrastructure Replacement

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.

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2015 Water and Wastewater Rev Bonds	0	-659,200	-8,003,000	0	0	0	0	-8,662,200
<b>Total REVENUE</b>	<b>0</b>	<b>-659,200</b>	<b>-8,003,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-8,662,200</b>
<b>EXPENDITURES</b>								
Construction	0	0	8,003,000	0	0	0	0	8,003,000
Design and Engineering	0	659,200	0	0	0	0	0	659,200
<b>Total EXPENDITURES</b>	<b>0</b>	<b>659,200</b>	<b>8,003,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8,662,200</b>
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# CC I&I STUDY & REMEDIATION

Public Works

Crooked Creek Basin Improvements

Approved

**Project Scope**

Infrastructure Replacement

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

**Project Justification & 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.

**Project Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2015 Water and Wastewater Rev Bonds	0	-1,508,950	0	0	0	0	0	-1,508,950
Utility Pay Go	-261,300	0	0	0	0	0	0	-261,300
<b>Total REVENUE</b>	<b>-261,300</b>	<b>-1,508,950</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-1,770,250</b>
<b>EXPENDITURES</b>								
Construction	0	1,508,950	0	0	0	0	0	1,508,950
Design and Engineering	261,300	0	0	0	0	0	0	261,300
<b>Total EXPENDITURES</b>	<b>261,300</b>	<b>1,508,950</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,770,250</b>
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# CC INTERCEPTOR IMPROVEMENTS PH I

Public Works

Crooked Creek Basin Improvements

Approved

**Project Scope**

Infrastructure Replacement

Project provides for the installation of the Crooked Creek Relief Interceptor - 1,000LF of 24-in line and 3,700LF of 27-in relief sewer line, North Fork Crooked Creek Interceptor - 5,800 LF of 21-in replacement sewer line, South Fork Crooked Creek Interceptor - 2,900 LF of 15-in line and 500 LF of 18-in replacement sewer line, Forest Park North Tributary - 2,100 ft. of 15-in line and 500 LF of 18-in replacement sewer line.

**Project Justification & History**

This project constitutes one of six subprojects included in the Crooked Creek Basin Improvements. The Comprehensive Water and Wastewater Master Plan recommended various interceptor improvements within the Crooked Creek Basin. This include installation of 3,700 LF of 27" Gravity Sewer, 1,000 LF of 24" Gravity Sewer and replacement of 5,800 LF of 21" Gravity Sewer, 1,000 LF of 18" Gravity Sewer and 5,000 LF of Gravity Sewer.

**Project Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2015 Water and Wastewater Rev Bonds	0	-257,500	0	-3,193,700	0	0	0	-3,451,200
Total REVENUE	0	-257,500	0	-3,193,700	0	0	0	-3,451,200
<b>EXPENDITURES</b>								
Construction	0	0	0	3,193,700	0	0	0	3,193,700
Design and Engineering	0	257,500	0	0	0	0	0	257,500
Total EXPENDITURES	0	257,500	0	3,193,700	0	0	0	3,451,200
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# CROOKED CREEK INTERCEPTOR IMPROVEMENTS PHS 2

Public Works

Crooked Creek Basin Improvements

Requested

**Project Scope**

Infrastructure Replacement

Project provides approximately 2,600 LF of 24" Gravity Sewer line, 5,700 LF of 18" Gravity Sewer line, replacement of 2,500 LF of 21" Gravity Sewer line along the South Fork of Crooked Creek and related improvements.

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 Water and Wastewater Rev Bonds	0	0	0	-163,500	-2,027,200	0	0	-2,190,700
Total REVENUE	0	0	0	-163,500	-2,027,200	0	0	-2,190,700
<b>EXPENDITURES</b>								
Construction	0	0	0	0	2,027,200	0	0	2,027,200
Design and Engineering	0	0	0	163,500	0	0	0	163,500
Total EXPENDITURES	0	0	0	163,500	2,027,200	0	0	2,190,700
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0



# CROOKED CREEK INTERCEPTOR IMPROVEMENTS PHS 3

Public Works

Crooked Creek Basin Improvements

Requested

**Project Scope**

Infrastructure Replacement

Project provides approximately 4,600 LF of 12" Gravity Sewer line, 200 LF of 15", 2,400 LF of 18" replacement Gravity Sewer line along the North Fork of Crooked Creek, and related improvements.

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 Water and Wastewater Rev Bonds	0	0	0	0	-89,600	-1,058,000	0	-1,147,600
Total REVENUE	0	0	0	0	-89,600	-1,058,000	0	-1,147,600
<b>EXPENDITURES</b>								
Construction	0	0	0	0	0	1,058,000	0	1,058,000
Design and Engineering	0	0	0	0	89,600	0	0	89,600
Total EXPENDITURES	0	0	0	0	89,600	1,058,000	0	1,147,600
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# FOREST PARK PS REPLACEMENT & INTERCEPTOR IMPROVEMENTS

Public Works

Crooked Creek Basin Improvements

Requested

**Project Scope**

Infrastructure Replacement

Project provides for the replacement of the Forest Park Pump Station with a new 3 MGD pumps and replacement of approximately 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.

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 Water and Wastewater Rev Bonds	0	0	0	0	0	-92,000	-1,062,000	-1,154,000
<b>Total REVENUE</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-92,000</b>	<b>-1,062,000</b>	<b>-1,154,000</b>
<b>EXPENDITURES</b>								
Construction	0	0	0	0	0	0	1,062,000	1,062,000
Design and Engineering	0	0	0	0	0	92,000	0	92,000
<b>Total EXPENDITURES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>92,000</b>	<b>1,062,000</b>	<b>1,154,000</b>
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Developer Funded	-1,829,829	0	0	0	0	0	0	-1,829,829
FY 2015 Water and Wastewater Rev Bonds	0	-20,369,280	0	-15,369,000	0	0	0	-35,738,280
Utility Pay Go	-5,081,711	0	0	0	0	0	0	-5,081,711
<b>Total REVENUE</b>	<b>-6,911,540</b>	<b>-20,369,280</b>	<b>0</b>	<b>-15,369,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-42,649,820</b>
<b>EXPENDITURES</b>								
Construction	0	17,695,400	0	15,369,000	0	0	0	33,064,400
Design and Engineering	4,487,540	2,492,600	0	0	0	0	0	6,980,140
Land Acquisition	0	181,280	0	0	0	0	0	181,280
Other Activities	2,424,000	0	0	0	0	0	0	2,424,000
<b>Total EXPENDITURES</b>	<b>6,911,540</b>	<b>20,369,280</b>	<b>0</b>	<b>15,369,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>42,649,820</b>
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
WP003 CRWTP RESERVOIR EXPANSION	6,129,000	15,888,780	0	0	0	0	0	22,017,780
WP004 CRWTP PROCESS IMPROVEMENT	782,540	3,553,500	0	0	0	0	0	4,336,040
WP007 CRWTP (PLANT) EXPANSION	0	927,000	0	15,369,000	0	0	0	16,296,000
<b>CRWTP Improvements</b>	<b>6,911,540</b>	<b>20,369,280</b>	<b>0</b>	<b>15,369,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>42,649,820</b>

# CRWTP RESERVOIR EXPANSION

Public Works

CRWTP Improvements

Approved

**Project Scope**

Facility Expansion

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 & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Developer Funded	-1,829,829	0	0	0	0	0	0	-1,829,829
FY 2015 Water and Wastewater Rev Bonds	0	-15,888,780	0	0	0	0	0	-15,888,780
Utility Pay Go	-4,299,171	0	0	0	0	0	0	-4,299,171
<b>Total REVENUE</b>	<b>-6,129,000</b>	<b>-15,888,780</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-22,017,780</b>
<b>EXPENDITURES</b>								
Construction	0	14,317,000	0	0	0	0	0	14,317,000
Design and Engineering	3,705,000	1,390,500	0	0	0	0	0	5,095,500
Land Acquisition	0	181,280	0	0	0	0	0	181,280
Other Activities	2,424,000	0	0	0	0	0	0	2,424,000
<b>Total EXPENDITURES</b>	<b>6,129,000</b>	<b>15,888,780</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22,017,780</b>
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# CRWTP PROCESS IMPROVEMENT

Public Works

CRWTP Improvements

Approved

**Project Scope**

Facility Expansion/Replacement

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 & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2015 Water and Wastewater Rev Bonds	0	-3,553,500	0	0	0	0	0	-3,553,500
Utility Pay Go	-782,540	0	0	0	0	0	0	-782,540
<b>Total REVENUE</b>	<b>-782,540</b>	<b>-3,553,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-4,336,040</b>
<b>EXPENDITURES</b>								
Construction	0	3,378,400	0	0	0	0	0	3,378,400
Design and Engineering	782,540	175,100	0	0	0	0	0	957,640
<b>Total EXPENDITURES</b>	<b>782,540</b>	<b>3,553,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,336,040</b>
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# CRWTP (PLANT) EXPANSION

Public Works

CRWTP Improvements

Approved

**Project Scope**

Facility Expansion

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 & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2015 Water and Wastewater Rev Bonds	0	-927,000	0	-15,369,000	0	0	0	-16,296,000
<b>Total REVENUE</b>	<b>0</b>	<b>-927,000</b>	<b>0</b>	<b>-15,369,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-16,296,000</b>
<b>EXPENDITURES</b>								
Construction	0	0	0	15,369,000	0	0	0	15,369,000
Design and Engineering	0	927,000	0	0	0	0	0	927,000
<b>Total EXPENDITURES</b>	<b>0</b>	<b>927,000</b>	<b>0</b>	<b>15,369,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16,296,000</b>
Project 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total	
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019		
<b>REVENUE</b>									
Developer Funded	0	0	0	0	0	0	0	-37,292,884	-37,292,884
Total REVENUE	0	0	0	0	0	0	0	-37,292,884	-37,292,884
<b>EXPENDITURES</b>									
Construction	0	0	0	0	0	0	0	37,292,884	37,292,884
Total EXPENDITURES	0	0	0	0	0	0	0	37,292,884	37,292,884
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total	
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019		
UT005 DEVELOPER FUNDED PROJECTS	0	0	0	0	0	0	0	37,292,884	37,292,884
Developer Funded Projects	0	0	0	0	0	0	0	37,292,884	37,292,884

# DEVELOPER FUNDED PROJECTS

Public Works

Developer Funded Projects

Requested

**Project Scope**

System Expansion

Project provides for new infrastructure for developer funded projects

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Developer Funded	0	0	0	0	0	0	-37,292,884	-37,292,884
Total REVENUE	0	0	0	0	0	0	-37,292,884	-37,292,884
<b>EXPENDITURES</b>								
Construction	0	0	0	0	0	0	37,292,884	37,292,884
Total EXPENDITURES	0	0	0	0	0	0	37,292,884	37,292,884
Project Revenue (Over)/Under Exp.	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 Financing Detail

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2015 Water and Wastewater Rev Bonds	0	0	-2,565,200	0	0	0	0	-2,565,200
Grant Funding	-1,961,300	0	0	0	0	0	0	-1,961,300
Utility Pay Go	-6,882,062	0	0	0	0	0	-1,156,400	-8,038,462
<b>Total REVENUE</b>	<b>-8,843,362</b>	<b>0</b>	<b>-2,565,200</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-1,156,400</b>	<b>-12,564,962</b>
<b>EXPENDITURES</b>								
Construction	7,246,374	0	2,565,200	0	0	0	0	9,811,574
Construction Management Support	179	0	0	0	0	0	0	179
Design and Engineering	1,516,809	0	0	0	0	0	1,156,400	2,673,209
Other Activities	80,000	0	0	0	0	0	0	80,000
<b>Total EXPENDITURES</b>	<b>8,843,362</b>	<b>0</b>	<b>2,565,200</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,156,400</b>	<b>12,564,962</b>
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

### Program Project Summary

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
SE002 EAST SIDE IMPROVEMENTS	8,563,362	0	0	0	0	0	0	8,563,362
SE003 RAYS FORK INTERCEPTOR	280,000	0	2,565,200	0	0	0	0	2,845,200
UT006 CITY OF MONROE WWTP EXPANSION	0	0	0	0	0	0	1,156,400	1,156,400
<b>Eastside Wastewater Improvements</b>	<b>8,843,362</b>	<b>0</b>	<b>2,565,200</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,156,400</b>	<b>12,564,962</b>

# EAST SIDE IMPROVEMENTS

Public Works

Eastside Wastewater Improvements

Approved

**Project Scope**

Infrastructure Replacement

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 & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Grant Funding	-1,961,300	0	0	0	0	0	0	-1,961,300
Utility Pay Go	-6,602,062	0	0	0	0	0	0	-6,602,062
<b>Total REVENUE</b>	<b>-8,563,362</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-8,563,362</b>
<b>EXPENDITURES</b>								
Construction	7,246,374	0	0	0	0	0	0	7,246,374
Construction Management Support	179	0	0	0	0	0	0	179
Design and Engineering	1,236,809	0	0	0	0	0	0	1,236,809
Other Activities	80,000	0	0	0	0	0	0	80,000
<b>Total EXPENDITURES</b>	<b>8,563,362</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8,563,362</b>
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# RAYS FORK INTERCEPTOR

Public Works

Eastside Wastewater Improvements

Approved

**Project Scope**

New Infrastructure

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 & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2015 Water and Wastewater Rev Bonds	0	0	-2,565,200	0	0	0	0	-2,565,200
Utility Pay Go	-280,000	0	0	0	0	0	0	-280,000
<b>Total REVENUE</b>	<b>-280,000</b>	<b>0</b>	<b>-2,565,200</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-2,845,200</b>
<b>EXPENDITURES</b>								
Construction	0	0	2,565,200	0	0	0	0	2,565,200
Design and Engineering	280,000	0	0	0	0	0	0	280,000
<b>Total EXPENDITURES</b>	<b>280,000</b>	<b>0</b>	<b>2,565,200</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,845,200</b>
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# CITY OF MONROE WWTP EXPANSION

Public Works

Eastside Wastewater Improvements

Requested

**Project Scope**

Other Projects

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 & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total	
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019		
<b>REVENUE</b>									
Utility Pay Go	0	0	0	0	0	0	0	-1,156,400	-1,156,400
Total REVENUE	0	0	0	0	0	0	0	-1,156,400	-1,156,400
<b>EXPENDITURES</b>									
Design and Engineering	0	0	0	0	0	0	0	1,156,400	1,156,400
Total EXPENDITURES	0	0	0	0	0	0	0	1,156,400	1,156,400
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0	0



# General Replacement and Renewal Projects

*Program Detail*

**Program Scope**

Program provides for general replacement and renewal, including vehicle replacement programs, equipment replacement, and various small infrastructure projects, and other necessary improvements.

**Program Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Installment Financing	0	0	0	-825,000	-225,000	0	-220,000	-1,270,000
Solid Waste Reserve Funds	0	-300,000	-150,000	0	0	-150,000	0	-600,000
<b>Total REVENUE</b>	<b>0</b>	<b>-300,000</b>	<b>-150,000</b>	<b>-825,000</b>	<b>-225,000</b>	<b>-150,000</b>	<b>-220,000</b>	<b>-1,870,000</b>
<b>EXPENDITURES</b>								
Other Activities	0	300,000	150,000	825,000	225,000	150,000	220,000	1,870,000
<b>Total EXPENDITURES</b>	<b>0</b>	<b>300,000</b>	<b>150,000</b>	<b>825,000</b>	<b>225,000</b>	<b>150,000</b>	<b>220,000</b>	<b>1,870,000</b>
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
UT010 SW REPLACEMENT VEHICLES	0	300,000	150,000	0	0	150,000	0	600,000
UT011 SW OTHER EQUIPMENT	0	0	0	825,000	225,000	0	220,000	1,270,000
<b>General Replacement and Renewal</b>	<b>0</b>	<b>300,000</b>	<b>150,000</b>	<b>825,000</b>	<b>225,000</b>	<b>150,000</b>	<b>220,000</b>	<b>1,870,000</b>

# SW REPLACEMENT VEHICLES

Public Works

General Replacement and Renewal Projects

Requested

**Project Scope**

Replacement and Renewal

Project is for the replacement of heavy trucks used by Solid Waste division.

**Project Justification & History**

Due to the aging of our fleet of roll-off trucks, a replacement schedule is needed in order to maintain hauling of municipal solid waste and recycling from convenience sites to landfill.

**Project Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Solid Waste Reserve Funds	0	-300,000	-150,000	0	0	-150,000	0	-600,000
Total REVENUE	0	-300,000	-150,000	0	0	-150,000	0	-600,000
<b>EXPENDITURES</b>								
Other Activities	0	300,000	150,000	0	0	150,000	0	600,000
Total EXPENDITURES	0	300,000	150,000	0	0	150,000	0	600,000
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# SW OTHER EQUIPMENT

Public Works

General Replacement and Renewal Projects

Requested

**Project Scope**

Replacement and Renewal

Project provides for the replacement program for heavy equipment used in the Solid Waste Division

**Project Justification & History**

Due to the age of and hours of usage - several equipment items need to be replaced. In 2016, a replacement wheel loader and trash compactor is needed. In 2017, an additional wheel loader replacement is needed. In 2019 a replacement articulating truck to replace a 1984 Pan for moving cover soils at the C&D landfill.

**Project Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Installment Financing	0	0	0	-825,000	-225,000	0	-220,000	-1,270,000
Total REVENUE	0	0	0	-825,000	-225,000	0	-220,000	-1,270,000
<b>EXPENDITURES</b>								
Other Activities	0	0	0	825,000	225,000	0	220,000	1,270,000
Total EXPENDITURES	0	0	0	825,000	225,000	0	220,000	1,270,000
Project 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 Financing Detail

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2015 Water and Wastewater Rev Bonds	0	-7,683,800	0	0	0	0	0	-7,683,800
Utility Pay Go	-5,249,797	0	0	0	0	0	0	-5,249,797
<b>Total REVENUE</b>	<b>-5,249,797</b>	<b>-7,683,800</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-12,933,597</b>
<b>EXPENDITURES</b>								
Construction	2,666,652	7,271,800	0	0	0	0	0	9,938,452
Design and Engineering	1,074,998	0	0	0	0	0	0	1,074,998
Land Acquisition	1,500,000	412,000	0	0	0	0	0	1,912,000
Other Activities	8,147	0	0	0	0	0	0	8,147
<b>Total EXPENDITURES</b>	<b>5,249,797</b>	<b>7,683,800</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12,933,597</b>
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

### Program Project Summary

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
WT044 WEDDINGTON ELEVATED STORAGE TANK	4,799,797	3,007,600	0	0	0	0	0	7,807,397
WT053 DEVELOPMENT OF 880 PRESSURE ZONE	450,000	4,676,200	0	0	0	0	0	5,126,200
<b>New 880 Pressure Zone</b>	<b>5,249,797</b>	<b>7,683,800</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12,933,597</b>

# WEDDINGTON ELEVATED STORAGE TANK

Public Works

New 880 Pressure Zone

Approved

**Project Scope**

New Infrastructure

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

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2015 Water and Wastewater Rev Bonds	0	-3,007,600	0	0	0	0	0	-3,007,600
Utility Pay Go	-4,799,797	0	0	0	0	0	0	-4,799,797
Total REVENUE	-4,799,797	-3,007,600	0	0	0	0	0	-7,807,397
<b>EXPENDITURES</b>								
Construction	2,666,652	3,007,600	0	0	0	0	0	5,674,252
Design and Engineering	624,998	0	0	0	0	0	0	624,998
Land Acquisition	1,500,000	0	0	0	0	0	0	1,500,000
Other Activities	8,147	0	0	0	0	0	0	8,147
Total EXPENDITURES	4,799,797	3,007,600	0	0	0	0	0	7,807,397
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# DEVELOPMENT OF 880 PRESSURE ZONE

Public Works

New 880 Pressure Zone

Approved

**Project Scope**

New Infrastructure

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)  
 Waxhaw-Marvin BPS abandonment

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2015 Water and Wastewater Rev Bonds	0	-4,676,200	0	0	0	0	0	-4,676,200
Utility Pay Go	-450,000	0	0	0	0	0	0	-450,000
<b>Total REVENUE</b>	<b>-450,000</b>	<b>-4,676,200</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-5,126,200</b>
<b>EXPENDITURES</b>								
Construction	0	4,264,200	0	0	0	0	0	4,264,200
Design and Engineering	450,000	0	0	0	0	0	0	450,000
Land Acquisition	0	412,000	0	0	0	0	0	412,000
Other Activities	0	0	0	0	0	0	0	0
<b>Total EXPENDITURES</b>	<b>450,000</b>	<b>4,676,200</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,126,200</b>
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# New Eastern 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 Water and Wastewater Rev Bonds	0	0	-5,119,800	-5,264,700	-5,409,000	-111,021,000	0	-126,814,500
Utility Pay Go	-2,249,510	0	0	0	0	0	0	-2,249,510
<b>Total REVENUE</b>	<b>-2,249,510</b>	<b>0</b>	<b>-5,119,800</b>	<b>-5,264,700</b>	<b>-5,409,000</b>	<b>-111,021,000</b>	<b>0</b>	<b>-129,064,010</b>
<b>EXPENDITURES</b>								
Construction	0	0	0	0	0	111,021,000	0	111,021,000
Design and Engineering	2,074,510	0	0	5,264,700	5,409,000	0	0	12,748,210
Land Acquisition	0	0	5,119,800	0	0	0	0	5,119,800
Other Activities	175,000	0	0	0	0	0	0	175,000
<b>Total EXPENDITURES</b>	<b>2,249,510</b>	<b>0</b>	<b>5,119,800</b>	<b>5,264,700</b>	<b>5,409,000</b>	<b>111,021,000</b>	<b>0</b>	<b>129,064,010</b>
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
WP005 YADKIN WATER SUPPLY	2,249,510	0	5,119,800	5,264,700	5,409,000	111,021,000	0	129,064,010
New Eastern Water Supply	2,249,510	0	5,119,800	5,264,700	5,409,000	111,021,000	0	129,064,010



# YADKIN WATER SUPPLY

Public Works

New Eastern Water Supply

Approved

**Project Scope**

System Expansion

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 expected to begin in Fiscal Year 2018.

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 Water and Wastewater Rev Bonds	0	0	-5,119,800	-5,264,700	-5,409,000	-111,021,000	0	-126,814,500
Utility Pay Go	-2,249,510	0	0	0	0	0	0	-2,249,510
<b>Total REVENUE</b>	<b>-2,249,510</b>	<b>0</b>	<b>-5,119,800</b>	<b>-5,264,700</b>	<b>-5,409,000</b>	<b>-111,021,000</b>	<b>0</b>	<b>-129,064,010</b>
<b>EXPENDITURES</b>								
Construction	0	0	0	0	0	111,021,000	0	111,021,000
Design and Engineering	2,074,510	0	0	5,264,700	5,409,000	0	0	12,748,210
Land Acquisition	0	0	5,119,800	0	0	0	0	5,119,800
Other Activities	175,000	0	0	0	0	0	0	175,000
<b>Total EXPENDITURES</b>	<b>2,249,510</b>	<b>0</b>	<b>5,119,800</b>	<b>5,264,700</b>	<b>5,409,000</b>	<b>111,021,000</b>	<b>0</b>	<b>129,064,010</b>
Project 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2019 Water and Wastewater Rev Bonds	0	0	0	0	0	-333,500	-4,967,800	-5,301,300
<b>Total REVENUE</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-333,500</b>	<b>-4,967,800</b>	<b>-5,301,300</b>
<b>EXPENDITURES</b>								
Construction Management Support	0	0	0	0	0	0	4,967,800	4,967,800
Design and Engineering	0	0	0	0	0	333,500	0	333,500
<b>Total EXPENDITURES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>333,500</b>	<b>4,967,800</b>	<b>5,301,300</b>
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
UT007 DEVELOPMENT OF LAKE TWITTY SEWER SHED	0	0	0	0	0	333,500	4,967,800	5,301,300
New Lake Twitty Sewer Shed	0	0	0	0	0	333,500	4,967,800	5,301,300

# DEVELOPMENT OF LAKE TWITTY SEWER SHED

Public Works

New Lake Twitty Sewer Shed

Requested

**Project Scope**

System Expansion

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 send flow to the City of Monroe WWTP and other related improvements.

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2019 Water and Wastewater Rev Bonds	0	0	0	0	0	-333,500	-4,967,800	-5,301,300
Total REVENUE	0	0	0	0	0	-333,500	-4,967,800	-5,301,300
<b>EXPENDITURES</b>								
Construction Management Support	0	0	0	0	0	0	4,967,800	4,967,800
Design and Engineering	0	0	0	0	0	333,500	0	333,500
Total EXPENDITURES	0	0	0	0	0	333,500	4,967,800	5,301,300
Project 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Developer Funded	-7,525	0	0	0	0	0	0	-7,525
Utility Pay Go	-687,475	-515,000	-530,000	-545,000	-560,000	-575,000	-590,000	-4,002,475
<b>Total REVENUE</b>	<b>-695,000</b>	<b>-515,000</b>	<b>-530,000</b>	<b>-545,000</b>	<b>-560,000</b>	<b>-575,000</b>	<b>-590,000</b>	<b>-4,010,000</b>
<b>EXPENDITURES</b>								
Construction	500,000	515,000	530,000	545,000	560,000	575,000	590,000	3,815,000
Design and Engineering	195,000	0	0	0	0	0	0	195,000
<b>Total EXPENDITURES</b>	<b>695,000</b>	<b>515,000</b>	<b>530,000</b>	<b>545,000</b>	<b>560,000</b>	<b>575,000</b>	<b>590,000</b>	<b>4,010,000</b>
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
MW017 SHORT LINE EXTENSIONS - WATER	695,000	515,000	530,000	545,000	560,000	575,000	590,000	4,010,000
Short Line Extensions	695,000	515,000	530,000	545,000	560,000	575,000	590,000	4,010,000

# SHORT LINE EXTENSIONS - WATER

Public Works

Short Line Extensions

Approved

**Project Scope**

New Infrastructure

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

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Developer Funded	-7,525	0	0	0	0	0	0	-7,525
Utility Pay Go	-687,475	-515,000	-530,000	-545,000	-560,000	-575,000	-590,000	-4,002,475
<b>Total REVENUE</b>	<b>-695,000</b>	<b>-515,000</b>	<b>-530,000</b>	<b>-545,000</b>	<b>-560,000</b>	<b>-575,000</b>	<b>-590,000</b>	<b>-4,010,000</b>
<b>EXPENDITURES</b>								
Construction	500,000	515,000	530,000	545,000	560,000	575,000	590,000	3,815,000
Design and Engineering	195,000	0	0	0	0	0	0	195,000
<b>Total EXPENDITURES</b>	<b>695,000</b>	<b>515,000</b>	<b>530,000</b>	<b>545,000</b>	<b>560,000</b>	<b>575,000</b>	<b>590,000</b>	<b>4,010,000</b>
Project 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	-125,940	-1,833,400	0	0	0	0	0	-1,959,340
Total REVENUE	-125,940	-1,833,400	0	0	0	0	0	-1,959,340
<b>EXPENDITURES</b>								
Construction	0	1,369,900	0	0	0	0	0	1,369,900
Design and Engineering	125,940	463,500	0	0	0	0	0	589,440
Total EXPENDITURES	125,940	1,833,400	0	0	0	0	0	1,959,340
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
SW026 STALLINGS-COLLECTION SYSTEM	64,200	1,122,700	0	0	0	0	0	1,186,900
SW028 MINERAL SPRINGS-COLLECTION SYSTEM	61,740	401,700	0	0	0	0	0	463,440
SW033 UNIONVILLE COMMUNITY CENTER WW SERVICE	0	103,000	0	0	0	0	0	103,000
SW034 FAIRVIEW DOWNTOWN WW SERVICE	0	206,000	0	0	0	0	0	206,000
Town Center Sewer Development	125,940	1,833,400	0	0	0	0	0	1,959,340

# STALLINGS- COLLECTION SYSTEM

Public Works

Town Center Sewer Development

Approved

**Project Scope**

Infrastructure Replacement

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

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	-64,200	-1,122,700	0	0	0	0	0	-1,186,900
<b>Total REVENUE</b>	<b>-64,200</b>	<b>-1,122,700</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-1,186,900</b>
<b>EXPENDITURES</b>								
Construction	0	1,030,000	0	0	0	0	0	1,030,000
Design and Engineering	64,200	92,700	0	0	0	0	0	156,900
<b>Total EXPENDITURES</b>	<b>64,200</b>	<b>1,122,700</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,186,900</b>
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0



# MINERAL SPRINGS-COLLECTION SYSTEM

Public Works

Town Center Sewer Development

Approved

**Project Scope**

New Infrastructure

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 & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	-61,740	-401,700	0	0	0	0	0	-463,440
Total REVENUE	-61,740	-401,700	0	0	0	0	0	-463,440
<b>EXPENDITURES</b>								
Construction	0	339,900	0	0	0	0	0	339,900
Design and Engineering	61,740	61,800	0	0	0	0	0	123,540
Total EXPENDITURES	61,740	401,700	0	0	0	0	0	463,440
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# UNIONVILLE COMMUNITY CENTER WW SERVICE

Public Works

Town Center Sewer Development

Approved

**Project Scope**

System Expansion

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

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	0	-103,000	0	0	0	0	0	-103,000
Total REVENUE	0	-103,000	0	0	0	0	0	-103,000
<b>EXPENDITURES</b>								
Construction	0	0	0	0	0	0	0	0
Design and Engineering	0	103,000	0	0	0	0	0	103,000
Total EXPENDITURES	0	103,000	0	0	0	0	0	103,000
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# FAIRVIEW DOWNTOWN WW SERVICE

Public Works

Town Center Sewer Development

Approved

**Project Scope**

System Expansion

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

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	0	-206,000	0	0	0	0	0	-206,000
Total REVENUE	0	-206,000	0	0	0	0	0	-206,000
<b>EXPENDITURES</b>								
Construction	0	0	0	0	0	0	0	0
Design and Engineering	0	206,000	0	0	0	0	0	206,000
Total EXPENDITURES	0	206,000	0	0	0	0	0	206,000
Project 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Developer Funded	-2,061,166	0	0	0	0	0	0	-2,061,166
FY 2015 Water and Wastewater Rev Bonds	0	-7,354,200	-7,070,200	0	0	0	0	-14,424,400
FY 2017 Water and Wastewater Rev Bonds	0	-2,101,200	0	-30,912,400	0	0	0	-33,013,600
Utility Pay Go	-7,921,934	-2,133,400	-5,925,400	-2,125,500	0	0	0	-18,106,234
<b>Total REVENUE</b>	<b>-9,983,100</b>	<b>-11,588,800</b>	<b>-12,995,600</b>	<b>-33,037,900</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-67,605,400</b>
<b>EXPENDITURES</b>								
Construction	7,784,808	7,395,400	12,815,400	33,037,900	0	0	0	61,033,508
Design and Engineering	2,195,975	4,193,400	180,200	0	0	0	0	6,569,575
Other Activities	2,317	0	0	0	0	0	0	2,317
<b>Total EXPENDITURES</b>	<b>9,983,100</b>	<b>11,588,800</b>	<b>12,995,600</b>	<b>33,037,900</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>67,605,400</b>
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
SP011 12 ML WWTP DESIGN & INTERIM IMPROVEMENTS	4,761,815	2,133,400	5,618,000	0	0	0	0	12,513,215
SP018 HUNLEY CREEK WWTP DECOMMISSION	0	0	127,200	0	0	0	0	127,200
SP019 12 MILE CREEK WWTP EXPANSION	0	2,101,200	0	30,912,400	0	0	0	33,013,600
SW022 EAST FORK 12M CRK PARALLEL TRUNK	550,000	6,612,600	0	0	0	0	0	7,162,600
SW027 12M CK SEWER DIVERSION TO CMUD	4,671,285	0	0	0	0	0	0	4,671,285
SW032 BLYTHE CREEK SEWER IMPROVEMENTS	0	0	180,200	2,125,500	0	0	0	2,305,700
UT004 WEST FORK TWELVE MILE INTERCEPTOR IMPROVEMENTS	0	741,600	7,070,200	0	0	0	0	7,811,800
<b>Twelve Mile Creek WWTP System I</b>	<b>9,983,100</b>	<b>11,588,800</b>	<b>12,995,600</b>	<b>33,037,900</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>67,605,400</b>

# 12 ML WWTP DESIGN & INTERIM IMPROVEMENTS

Public Works

Twelve Mile Creek WWTP System Improvements

Approved

**Project Scope**

Facility Expansion/Replacement

Project provides for 12 Mile Waste Water Treatment Plant Expansion and Improvements layout and conceptual design  
 12 Mile WWTP beneficial water reuse, 12 Mile WWTP near-term improvements (digester, headworks, reliability), and other needed improvements.

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	-4,761,815	-2,133,400	-5,618,000	0	0	0	0	-12,513,215
Total REVENUE	-4,761,815	-2,133,400	-5,618,000	0	0	0	0	-12,513,215
<b>EXPENDITURES</b>								
Construction	3,706,210	782,800	5,618,000	0	0	0	0	10,107,010
Design and Engineering	1,055,605	1,350,600	0	0	0	0	0	2,406,205
Total EXPENDITURES	4,761,815	2,133,400	5,618,000	0	0	0	0	12,513,215
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# HUNLEY CREEK WWTP DECOMMISSION

Public Works

Twelve Mile Creek WWTP System Improvements

Approved

**Project Scope**

Other Projects

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

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	0	0	-127,200	0	0	0	0	-127,200
Total REVENUE	0	0	-127,200	0	0	0	0	-127,200
<b>EXPENDITURES</b>								
Construction	0	0	127,200	0	0	0	0	127,200
Design and Engineering	0	0	0	0	0	0	0	0
Total EXPENDITURES	0	0	127,200	0	0	0	0	127,200
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# 12 MILE CREEK WWTP EXPANSION

Public Works

Twelve Mile Creek WWTP System Improvements

Approved

**Project Scope**

Facility Expansion

Project provides for 3 MGD capacity expansion from 6 MGD to 9 MGD (Phase 1) and related improvements.

**Project Justification & 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 3 MGD, from 6 MGD to 9 MGD.

**Project Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2017 Water and Wastewater Rev Bonds	0	-2,101,200	0	-30,912,400	0	0	0	-33,013,600
Total REVENUE	0	-2,101,200	0	-30,912,400	0	0	0	-33,013,600
<b>EXPENDITURES</b>								
Construction	0	0	0	30,912,400	0	0	0	30,912,400
Design and Engineering	0	2,101,200	0	0	0	0	0	2,101,200
Total EXPENDITURES	0	2,101,200	0	30,912,400	0	0	0	33,013,600
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0



# EAST FORK 12M CRK PARALLEL TRUNK

Public Works

Twelve Mile Creek WWTP System Improvements

Approved

**Project Scope**

Infrastructure Replacement

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 installation of 4,500 LF of 15" line, and related improvements.

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Developer Funded	0	0	0	0	0	0	0	0
FY 2015 Water and Wastewater Rev Bonds	0	-6,612,600	0	0	0	0	0	-6,612,600
Utility Pay Go	-550,000	0	0	0	0	0	0	-550,000
<b>Total REVENUE</b>	<b>-550,000</b>	<b>-6,612,600</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-7,162,600</b>
<b>EXPENDITURES</b>								
Construction	0	6,612,600	0	0	0	0	0	6,612,600
Design and Engineering	550,000	0	0	0	0	0	0	550,000
<b>Total EXPENDITURES</b>	<b>550,000</b>	<b>6,612,600</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,162,600</b>
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# 12M CK SEWER DIVERSION TO CMUD

Public Works

Twelve Mile Creek WWTP System Improvements

Approved

**Project Scope**

New Infrastructure

Project maximizes the utilization of our 3.0 MGD contract capacity with Charlotte-Mecklenburg Utilities. The project includes approximately 16,000 LF of 18-inch force main and construction of a new 1.5 MGD diversion pump station and related improvements.

**Project Justification & History**

WWTP Service Area to reduce Inflow and Infiltration into the 12 Mile WWTP and to improve the hydraulics for the wastewater flow. An active project currently in the warranty stage through November of '13. Created a new wet well, pump station and force main to divert additional sewer away from 12 Mile WWTP and create the ability to utilize contractual capacity agreement with CMUD.

**Project Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Developer Funded	-2,061,166	0	0	0	0	0	0	-2,061,166
Utility Pay Go	-2,610,119	0	0	0	0	0	0	-2,610,119
<b>Total REVENUE</b>	<b>-4,671,285</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-4,671,285</b>
<b>EXPENDITURES</b>								
Construction	4,078,598	0	0	0	0	0	0	4,078,598
Design and Engineering	590,370	0	0	0	0	0	0	590,370
Other Activities	2,317	0	0	0	0	0	0	2,317
<b>Total EXPENDITURES</b>	<b>4,671,285</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,671,285</b>
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# BLYTHE CREEK SEWER IMPROVEMENTS

Public Works

Twelve Mile Creek WWTP System Improvements

Approved

**Project Scope**

New Infrastructure

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 & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	0	0	-180,200	-2,125,500	0	0	0	-2,305,700
Total REVENUE	0	0	-180,200	-2,125,500	0	0	0	-2,305,700
<b>EXPENDITURES</b>								
Construction	0	0	0	2,125,500	0	0	0	2,125,500
Design and Engineering	0	0	180,200	0	0	0	0	180,200
Total EXPENDITURES	0	0	180,200	2,125,500	0	0	0	2,305,700
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# WEST FORK TWELVE MILE INTERCEPTOR IMPROVEMENTS

Public Works

Twelve Mile Creek WWTP System Improvements

Requested

**Project Scope**

New Infrastructure

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 & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2015 Water and Wastewater Rev Bonds	0	-741,600	-7,070,200	0	0	0	0	-7,811,800
Total REVENUE	0	-741,600	-7,070,200	0	0	0	0	-7,811,800
<b>EXPENDITURES</b>								
Construction	0	0	7,070,200	0	0	0	0	7,070,200
Design and Engineering	0	741,600	0	0	0	0	0	741,600
Total EXPENDITURES	0	741,600	7,070,200	0	0	0	0	7,811,800
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2015 Water and Wastewater Rev Bonds	0	-8,209,100	0	0	0	0	0	-8,209,100
Utility Pay Go	-2,456,276	0	0	0	0	0	0	-2,456,276
<b>Total REVENUE</b>	<b>-2,456,276</b>	<b>-8,209,100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-10,665,376</b>
<b>EXPENDITURES</b>								
Construction	1,826,276	8,209,100	0	0	0	0	0	10,035,376
Design and Engineering	630,000	0	0	0	0	0	0	630,000
<b>Total EXPENDITURES</b>	<b>2,456,276</b>	<b>8,209,100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,665,376</b>
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
PW005 PW (GOV) FACILITY RENOVATIONS	1,826,276	0	0	0	0	0	0	1,826,276
PW006 EXPAND OPERATIONS CENTER	630,000	8,209,100	0	0	0	0	0	8,839,100
<b>UCPW Buildings &amp; Improvements</b>	<b>2,456,276</b>	<b>8,209,100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,665,376</b>

# PW (GOV) FACILITY RENOVATIONS

Public Works

UCPW Buildings & Improvements

Approved

**Project Scope**

Facility Expansion/Replacement

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 & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
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
<b>EXPENDITURES</b>								
Construction	1,826,276	0	0	0	0	0	0	1,826,276
Design and Engineering	0	0	0	0	0	0	0	0
Total EXPENDITURES	1,826,276	0	0	0	0	0	0	1,826,276
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# EXPAND OPERATIONS CENTER

Public Works

UCPW Buildings & Improvements

Approved

**Project Scope**

Facility Expansion

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 & History**

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

**Project Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
FY 2015 Water and Wastewater Rev Bonds	0	-8,209,100	0	0	0	0	0	-8,209,100
Utility Pay Go	-630,000	0	0	0	0	0	0	-630,000
<b>Total REVENUE</b>	<b>-630,000</b>	<b>-8,209,100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-8,839,100</b>
<b>EXPENDITURES</b>								
Construction	0	8,209,100	0	0	0	0	0	8,209,100
Design and Engineering	630,000	0	0	0	0	0	0	630,000
<b>Total EXPENDITURES</b>	<b>630,000</b>	<b>8,209,100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8,839,100</b>
Project 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	-500,000	-92,700	-1,166,000	-327,000	-784,000	-230,000	-354,000	-3,453,700
Total REVENUE	-500,000	-92,700	-1,166,000	-327,000	-784,000	-230,000	-354,000	-3,453,700
<b>EXPENDITURES</b>								
Construction	0	0	1,166,000	327,000	784,000	230,000	354,000	2,861,000
Design and Engineering	500,000	92,700	0	0	0	0	0	592,700
Total EXPENDITURES	500,000	92,700	1,166,000	327,000	784,000	230,000	354,000	3,453,700
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
SW031 WASTEWATER PUMP STATION IMPROVEMENT	0	92,700	954,000	0	0	0	0	1,046,700
SW035 COLLECTION SYSTEM SSES & REHAB	500,000	0	0	109,000	560,000	0	118,000	1,287,000
SW036 PUMPING STATION UPGRADES	0	0	212,000	218,000	224,000	230,000	236,000	1,120,000
Wastewater Pump Station Improve	500,000	92,700	1,166,000	327,000	784,000	230,000	354,000	3,453,700

# WASTEWATER PUMP STATION IMPROVEMENT

Public Works

Wastewater Pump Station Improvements

Approved

**Project Scope**

Ongoing Maintenance

Project provides for refurbishing Suburban Estates Pressure Zone Helmsville Pumping Station - SCADA and control upgrades, Forest Park Pumping Station - SCADA and control upgrades, 21-25 Pumping Station rebuild and upgrade.

**Project Justification & History**

Rehabilitation and upgrades for the Suburban Estates, Helmsville, Forest Park and 21-25 Pump Stations. Will be performed under the Wastewater Improvements annual program identified as a part of the Comprehensive Water and Wastewater Master Plan.

**Project Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	0	-92,700	-954,000	0	0	0	0	-1,046,700
Total REVENUE	0	-92,700	-954,000	0	0	0	0	-1,046,700
<b>EXPENDITURES</b>								
Construction	0	0	954,000	0	0	0	0	954,000
Design and Engineering	0	92,700	0	0	0	0	0	92,700
Total EXPENDITURES	0	92,700	954,000	0	0	0	0	1,046,700
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# COLLECTION SYSTEM SSES & REHAB

Public Works

Wastewater Pump Station Improvements

Approved

**Project Scope**

Ongoing Maintenance

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 & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	-500,000	0	0	-109,000	-560,000	0	-118,000	-1,287,000
<b>Total REVENUE</b>	<b>-500,000</b>	<b>0</b>	<b>0</b>	<b>-109,000</b>	<b>-560,000</b>	<b>0</b>	<b>-118,000</b>	<b>-1,287,000</b>
<b>EXPENDITURES</b>								
Construction	0	0	0	109,000	560,000	0	118,000	787,000
Design and Engineering	500,000	0	0	0	0	0	0	500,000
<b>Total EXPENDITURES</b>	<b>500,000</b>	<b>0</b>	<b>0</b>	<b>109,000</b>	<b>560,000</b>	<b>0</b>	<b>118,000</b>	<b>1,287,000</b>
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# PUMPING STATION UPGRADES

Public Works

Wastewater Pump Station Improvements

Approved

**Project Scope**

Ongoing Maintenance

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 & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	0	0	-212,000	-218,000	-224,000	-230,000	-236,000	-1,120,000
Total REVENUE	0	0	-212,000	-218,000	-224,000	-230,000	-236,000	-1,120,000
<b>EXPENDITURES</b>								
Construction	0	0	212,000	218,000	224,000	230,000	236,000	1,120,000
Total EXPENDITURES	0	0	212,000	218,000	224,000	230,000	236,000	1,120,000
Project 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 Financing Detail

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	-3,914,960	-1,133,000	-1,166,000	-1,199,000	-1,232,000	-1,265,000	-1,298,000	-11,207,960
Total REVENUE	-3,914,960	-1,133,000	-1,166,000	-1,199,000	-1,232,000	-1,265,000	-1,298,000	-11,207,960
<b>EXPENDITURES</b>								
Construction	3,522,000	1,133,000	1,166,000	1,199,000	1,232,000	1,265,000	1,298,000	10,815,000
Design and Engineering	392,960	0	0	0	0	0	0	392,960
Total EXPENDITURES	3,914,960	1,133,000	1,166,000	1,199,000	1,232,000	1,265,000	1,298,000	11,207,960
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

### Program Project Summary

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
MS006 WASTEWATER R&R PROGRAM	1,100,000	1,133,000	1,166,000	1,199,000	1,232,000	1,265,000	1,298,000	8,393,000
SP015 TALLWOOD WWTP REPLACEMENT	2,454,960	0	0	0	0	0	0	2,454,960
SP016 OLDE SYCAMORE WWTP REHABILITATION	360,000	0	0	0	0	0	0	360,000
Wastewater Rehabilitation and Repl	3,914,960	1,133,000	1,166,000	1,199,000	1,232,000	1,265,000	1298000	11,207,960

# WASTEWATER R&R PROGRAM

Public Works

Wastewater Rehabilitation and Replacement

Approved

**Project Scope**

Ongoing Maintenance

Project provides for the annual wastewater rehabilitation program.

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	-1,100,000	-1,133,000	-1,166,000	-1,199,000	-1,232,000	-1,265,000	-1,298,000	-8,393,000
Total REVENUE	-1,100,000	-1,133,000	-1,166,000	-1,199,000	-1,232,000	-1,265,000	-1,298,000	-8,393,000
<b>EXPENDITURES</b>								
Construction	1,100,000	1,133,000	1,166,000	1,199,000	1,232,000	1,265,000	1,298,000	8,393,000
Total EXPENDITURES	1,100,000	1,133,000	1,166,000	1,199,000	1,232,000	1,265,000	1,298,000	8,393,000
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# TALLWOOD WWTP REPLACEMENT

Public Works

Wastewater Rehabilitation and Replacement

Approved

**Project Scope**

Facility Expansion/Replacement

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

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
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
<b>EXPENDITURES</b>								
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
Total EXPENDITURES	2,454,960	0	0	0	0	0	0	2,454,960
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# OLDE SYCAMORE WWTP REHABILITATION

Public Works

Wastewater Rehabilitation and Replacement

Approved

**Project Scope**

Ongoing Maintenance

Project provides rehabilitation of the surge/sludge holding tank wall, repainting various area and the replacement of existing coarse bubble diffusers with new fine bubble membrane diffusers and related improvements.

**Project Justification & 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. Project is currently in the warranty period through March 2013.

**Project Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	-360,000	0	0	0	0	0	0	-360,000
Total REVENUE	-360,000	0	0	0	0	0	0	-360,000
<b>EXPENDITURES</b>								
Construction	300,000	0	0	0	0	0	0	300,000
Design and Engineering	60,000	0	0	0	0	0	0	60,000
Total EXPENDITURES	360,000	0	0	0	0	0	0	360,000
Project 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 Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	0	0	-530,000	0	0	0	0	-530,000
Total REVENUE	0	0	-530,000	0	0	0	0	-530,000
<b>EXPENDITURES</b>								
Design and Engineering	0	0	530,000	0	0	0	0	530,000
Total EXPENDITURES	0	0	530,000	0	0	0	0	530,000
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

**Program Project Summary**

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
UT009 WATER & WASTEWATER MASTER PLAN UPDATE	0	0	530,000	0	0	0	0	530,000
Water & Wastewater Master Planni	0	0	530,000	0	0	0	0	530,000

# WATER & WASTEWATER MASTER PLAN UPDATE

Public Works

Water & Wastewater Master Planning

Requested

**Project Scope**

Planning for Future Needs

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

**Project Justification & History**

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

**Project Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	0	0	-530,000	0	0	0	0	-530,000
Total REVENUE	0	0	-530,000	0	0	0	0	-530,000
<b>EXPENDITURES</b>								
Design and Engineering	0	0	530,000	0	0	0	0	530,000
Total EXPENDITURES	0	0	530,000	0	0	0	0	530,000
Project 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 Financing Detail

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	-794,867	-2,245,400	-1,484,000	-1,526,000	-1,568,000	-1,610,000	-1,652,000	-10,880,267
Total REVENUE	-794,867	-2,245,400	-1,484,000	-1,526,000	-1,568,000	-1,610,000	-1,652,000	-10,880,267
<b>EXPENDITURES</b>								
Construction	529,162	2,245,400	1,484,000	1,526,000	1,568,000	1,610,000	1,652,000	10,614,562
Design and Engineering	260,972	0	0	0	0	0	0	260,972
Other Activities	4,733	0	0	0	0	0	0	4,733
Total EXPENDITURES	794,867	2,245,400	1,484,000	1,526,000	1,568,000	1,610,000	1,652,000	10,880,267
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

### Program Project Summary

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
MW001 MISC WATER LINE REPLACEMENT	633,531	515,000	530,000	545,000	560,000	575,000	590,000	3,948,531
MW008 HWY84 24" WL RELOCATION	81,336	360,500	0	0	0	0	0	441,836
MW016 WATER R&R PROGRAM	0	412,000	954,000	981,000	1,008,000	1,035,000	1,062,000	5,452,000
WT043 HWY 75 BPS REHABILITATION	80,000	957,900	0	0	0	0	0	1,037,900
Water Rehabilitation and Replacem	794,867	2,245,400	1,484,000	1,526,000	1,568,000	1,610,000	1652000	10,880,267

# MISC WATER LINE REPLACEMENT

Public Works

Water Rehabilitation and Replacement

Approved

**Project Scope**

Infrastructure Replacement

Project provides for the annual waterline replacement program.

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	-633,531	-515,000	-530,000	-545,000	-560,000	-575,000	-590,000	-3,948,531
<b>Total REVENUE</b>	<b>-633,531</b>	<b>-515,000</b>	<b>-530,000</b>	<b>-545,000</b>	<b>-560,000</b>	<b>-575,000</b>	<b>-590,000</b>	<b>-3,948,531</b>
<b>EXPENDITURES</b>								
Construction	500,000	515,000	530,000	545,000	560,000	575,000	590,000	3,815,000
Design and Engineering	128,798	0	0	0	0	0	0	128,798
Other Activities	4,733	0	0	0	0	0	0	4,733
<b>Total EXPENDITURES</b>	<b>633,531</b>	<b>515,000</b>	<b>530,000</b>	<b>545,000</b>	<b>560,000</b>	<b>575,000</b>	<b>590,000</b>	<b>3,948,531</b>
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# HWY84 24" WL RELOCATION

Public Works

Water Rehabilitation and Replacement

Approved

**Project Scope**

Infrastructure Replacement

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

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	-81,336	-360,500	0	0	0	0	0	-441,836
Total REVENUE	-81,336	-360,500	0	0	0	0	0	-441,836
<b>EXPENDITURES</b>								
Construction	29,162	360,500	0	0	0	0	0	389,662
Design and Engineering	52,174	0	0	0	0	0	0	52,174
Total EXPENDITURES	81,336	360,500	0	0	0	0	0	441,836
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# WATER R&R PROGRAM

Public Works

Water Rehabilitation and Replacement

Approved

**Project Scope**

Ongoing Maintenance

Project provides for the annual water rehabilitation and replacement program.

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	0	-412,000	-954,000	-981,000	-1,008,000	-1,035,000	-1,062,000	-5,452,000
Total REVENUE	0	-412,000	-954,000	-981,000	-1,008,000	-1,035,000	-1,062,000	-5,452,000
<b>EXPENDITURES</b>								
Construction	0	412,000	954,000	981,000	1,008,000	1,035,000	1,062,000	5,452,000
Design and Engineering	0	0	0	0	0	0	0	0
Total EXPENDITURES	0	412,000	954,000	981,000	1,008,000	1,035,000	1,062,000	5,452,000
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# HWY 75 BPS REHABILITATION

Public Works

Water Rehabilitation and Replacement

Approved

**Project Scope**

Ongoing Maintenance

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 & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	-80,000	-957,900	0	0	0	0	0	-1,037,900
Total REVENUE	-80,000	-957,900	0	0	0	0	0	-1,037,900
<b>EXPENDITURES</b>								
Construction	0	957,900	0	0	0	0	0	957,900
Design and Engineering	80,000	0	0	0	0	0	0	80,000
Total EXPENDITURES	80,000	957,900	0	0	0	0	0	1,037,900
Project 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 Financing Detail

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	-53,250	-550,000	-318,000	0	0	-345,000	0	-1,266,250
<b>Total REVENUE</b>	<b>-53,250</b>	<b>-550,000</b>	<b>-318,000</b>	<b>0</b>	<b>0</b>	<b>-345,000</b>	<b>0</b>	<b>-1,266,250</b>
<b>EXPENDITURES</b>								
Construction	0	550,000	318,000	0	0	345,000	0	1,213,000
Design and Engineering	53,250	0	0	0	0	0	0	53,250
<b>Total EXPENDITURES</b>	<b>53,250</b>	<b>550,000</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>345,000</b>	<b>0</b>	<b>1,266,250</b>
Program Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

### Program Project Summary

Project	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
WT054 MARSHVILLE WATER TANK REHABILITATION	53,250	550,000	0	0	0	0	0	603,250
WT063 STORAGE TANK REHABILITATION	0	0	318,000	0	0	345,000	0	663,000
<b>Water Tank Rehabilitation</b>	<b>53,250</b>	<b>550,000</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>345,000</b>	<b>0</b>	<b>1,266,250</b>



# MARSHVILLE WATER TANK REHABILITATION

Public Works

Water Tank Rehabilitation

Approved

**Project Scope**

Replacement and Renewal

Project provides for storage tank rehabilitation.

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	-53,250	-550,000	0	0	0	0	0	-603,250
Total REVENUE	-53,250	-550,000	0	0	0	0	0	-603,250
<b>EXPENDITURES</b>								
Construction	0	550,000	0	0	0	0	0	550,000
Design and Engineering	53,250	0	0	0	0	0	0	53,250
Total EXPENDITURES	53,250	550,000	0	0	0	0	0	603,250
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

# STORAGE TANK REHABILITATION

Public Works

Water Tank Rehabilitation

Approved

**Project Scope**

Ongoing Maintenance

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

**Project Justification & 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 Alternatives**

Included in master plan, no alternative provided.

**Project Financing Detail**

Project Phase	Project To-Date	Proposed FY 2014	Unappropriated Planning Years					Total
			FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	
<b>REVENUE</b>								
Utility Pay Go	0	0	-318,000	0	0	-345,000	0	-663,000
Total REVENUE	0	0	-318,000	0	0	-345,000	0	-663,000
<b>EXPENDITURES</b>								
Construction	0	0	318,000	0	0	345,000	0	663,000
Design and Engineering	0	0	0	0	0	0	0	0
Total EXPENDITURES	0	0	318,000	0	0	345,000	0	663,000
Project Revenue (Over)/Under Exp.	0	0	0	0	0	0	0	0

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