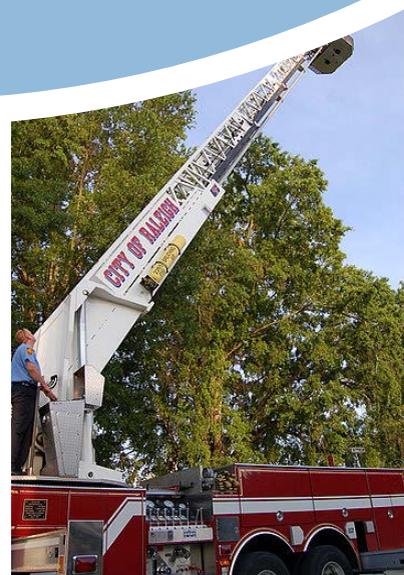




City of Raleigh Adopted Capital Improvement Program

FY2015-FY2019



Capital Improvement Program FY2015 to FY2019 City of Raleigh, North Carolina

Recommended to the City Council by the City Manager May 20, 2014
Adopted by the City Council..... June 9, 2014

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Overview of the Capital Improvement Program

The capital improvement program (CIP) is a five year plan, approved by City Council, that allocates limited financial resources to high priority needs. It is a primary mechanism for implementing the city's long-term vision and strategic plan.

When identifying new projects, staff look to the long-term priorities and direction set by City Council through strategic planning, as well as the city's comprehensive plan. In addition, long-term studies and citizen input also lead to additional requests. Staff submit formal requests through the annual budget process. A formal request includes a "business case" that establishes why the project is needed, what city plan is implemented, and what additional operating cost is needed. Business cases for new projects should be supported with relevant data and information. Staff analyze and discuss these requests, then prioritize the requests based consistency with Council goals, documented need, and cost.

The CIP is organized into eight pieces, called "elements," based on similar purpose and dedicated revenue sources:

- The **general public improvement element (GPI)** funds maintenance and construction of general government and public safety facilities and infrastructure. This element also includes selected economic development projects and other general needs.
- The **public utilities** element funds the ongoing maintenance and improvement of water and sewer infrastructure. These projects include main replacements, water treatment plant renovations, filter rehabilitation, and pump station maintenance.
- The **stormwater** element funds projects meant to manage and mitigate the effects of stormwater runoff. Project categories include general infrastructure, lake preservation, and drainage.
- The **transportation** element addresses major city streets, infrastructure maintenance, parking facility maintenance, long-term studies, and pedestrian-oriented projects. Both the 2011 and 2013 transportation bond referenda are implemented through this element.
- The **parks, recreation and cultural resources** element funds capital maintenance and renovations at the city's community centers, athletic facilities, greenways, and cultural sites. Projects can include structural and mechanical repairs and pavement repair and resurfacing. This element also funds land acquisition and long-term studies.
- The **housing** element provides capacity for increasing the stock of affordable housing throughout the city through neighborhood revitalization, first time home ownership programs and house rehabilitation projects.
- The **convention and performing arts complex** element funds maintenance, renovations, and improvements at three downtown facilities: Raleigh Convention Center, Performing Arts Center, and the downtown amphitheater. This element also includes the Walnut Creek Amphitheater in southeast Raleigh.
- The **technology** element funds the planning, design and implementation of new technological infrastructure. These projects include maintaining the city's enterprise resource management system, implementing a new land use planning system, and implementing a new personnel recruiting system.

The city uses a variety of revenue sources to fund capital improvements. Capital revenues can be classified into two broad types: cash (or "paygo") and debt-financing. Cash sources include property and sales tax revenues transferred from the city's General Fund. Other cash sources include state-shared revenues, facility fees, program income, and interest earnings. For debt-financing, the city uses a range of debt mechanisms, including general obligation bonds. Some revenue sources, such as general fund transfers, can be applied to any city project. Other revenues such as facility fees and Powell Bill funds, may only be spent on eligible projects. Major funding sources for the CIP are described below:

- **Debt Financing:** The largest revenue source for the city's CIP, both in FY 2015 and across the five-year horizon, is bonds. In November 2013, for example, Raleigh's citizens approved the use of general obligation bonds for transportation projects. In the public utilities element, revenue bonds will fund many water and sewer infrastructure projects. The city also employs commercial loans and other debt mechanisms for selected projects.
- **Transfers from Enterprise and Internal Service Funds:** Enterprise funds, such as Public Utilities, Stormwater, and Parking, collect user fees as part of their operations, then invest a portion of that revenue into capital projects. The city uses these transfers only for corresponding enterprise purposes. For example, public utilities transfers to capital are only used for water and sewer projects. Such internal service funds as Vehicle Fleet Services also contribute to selected capital projects. Transfers from enterprise and internal service funds are the CIP's second largest revenue source.
- **Transfers from the General Fund:** The general fund transfers a portion of the city's property and sales tax revenues to capital funds each year. Compared to other sources, general fund transfers are a flexible revenue source without restrictions on their use. The city applies these funds to a wide range of projects, including general government and public safety facility maintenance, parks facility maintenance, street resurfacing, and technology projects.
- **Facility Fees:** The city assesses charges on new development to help pay for the capital facility burden created by new development. Each new residential or commercial project pays its proportionate share of the cost of new infrastructure facilities required to serve that development. These fees support debt service and cash-funded projects for parks and road widening. Facility fees are based on a standard formula and a pre-determined fee schedule.
- **Interlocal Funds:** In Spring 2012, the City of Raleigh and Wake County agreed to dedicate a portion of the county-wide hotel/motel tax and prepared food tax revenues to maintain the Raleigh Convention Center. The interlocal agreement between the two jurisdictions includes a long-term funding schedule to maintain the facility.
- **User Fees and Program Income:** In some capital elements, selected user fees and program income sources are dedicated to capital projects rather than operating budgets. This includes program income from affordable housing programs, which are invested in new housing programs. This revenue source also includes selected development fees and lease revenue at the Walnut Creek Amphitheater.
- **Reserve from Prior Years:** As staff complete capital projects, the unspent budget accumulates into capital reserves, which are available to fund future projects. Capital reserves can also build up when the city collects additional revenues above the budget estimate. Staff annually estimate the reserve funds available for capital projects and may budget this additional revenue source.
- **Interest Income:** The city actively invests its cash balances in appropriate interest-earning mechanisms. Interest income is not a major source of revenue for the CIP, but supplements project budgets.

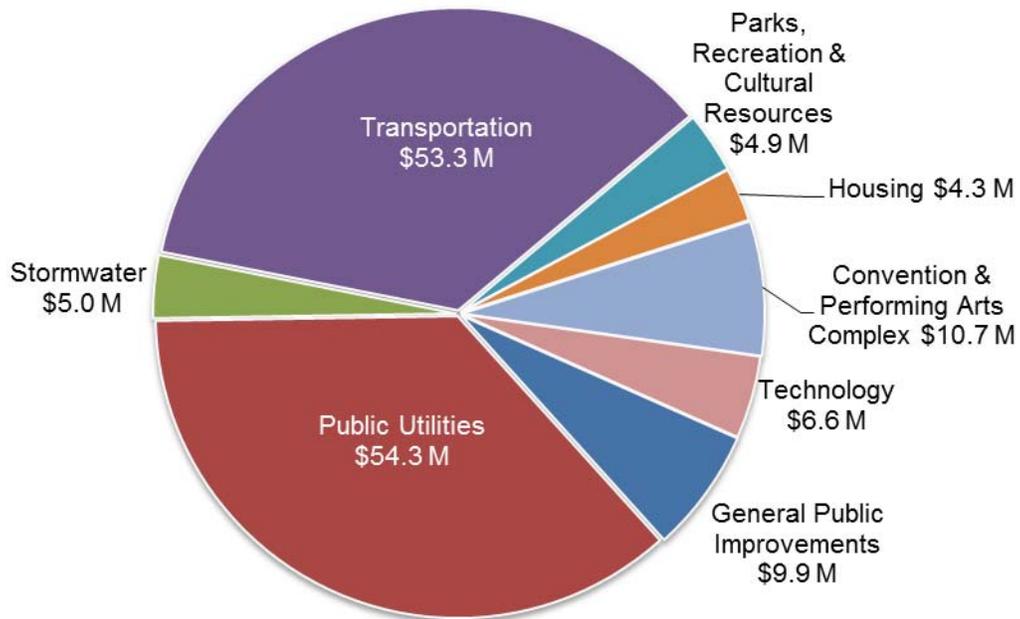
CIP Policies and Practices

The city adheres to several policies and practices to ensure long-term financial sustainability, promote effective planning, and ensure appropriate use of capital funds. Below is a summary of major items:

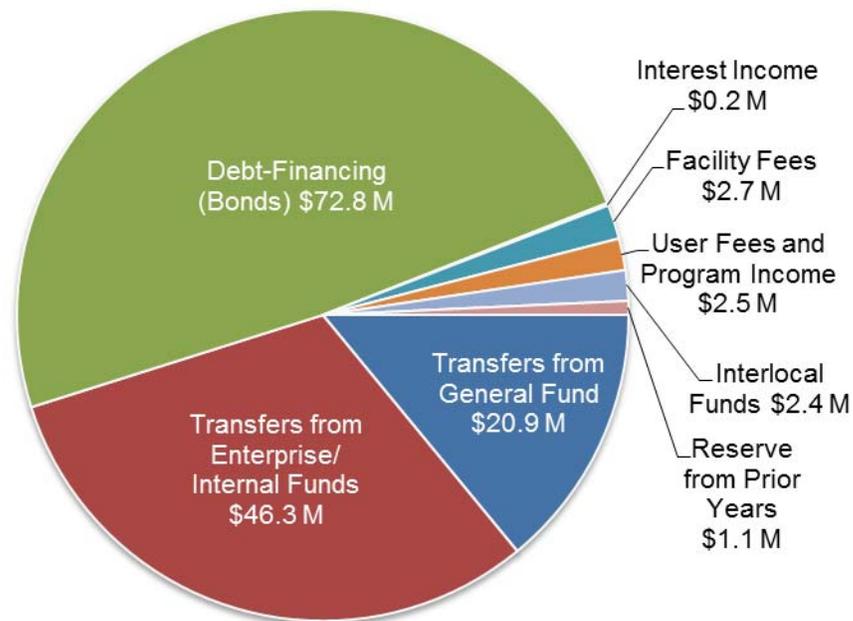
- **Defining capital projects:** Generally, a capital project will be a fixed asset with a useful life greater than ten years and with a cost of at least \$25,000. Capital projects include not only new assets, but projects that improve an asset or lengthen its useful life. Scheduled purchases of vehicles and equipment for routine operations are, generally, addressed through the annual operating budget. The operating budget also funds routine maintenance of facilities.
- **The CIP as a policy document:** Upon adoption by the City Council, the CIP becomes a statement of city policy regarding the timing, location, character, and funding of future capital projects. The CIP represents city administration's and City Council's best judgment at that time. Future needs and financial constraints may result in programmatic changes over the five year period. Policies and priorities established in the CIP guides subsequent decisions made by city administration and the various boards and commissions appointed by City Council.
- **Complementing the city's comprehensive plan:** All capital projects should complement the comprehensive plan. The comprehensive plan includes specific policies that establish it as the city's lead growth and development guide and connect it to the CIP. Policies also require staff to consult the comprehensive plan when establishing capital priorities, share long-term plans with other city staff, and identify long-term planning opportunities.
- **General debt policies:** City staff use a long-range debt model to track general debt obligations, as well as approved but unissued amounts. The model allows staff to forecast debt service requirements and perform "what if" scenarios. Historically, the city's general debt service should not exceed 15% of the general fund budget, and fund balance in the debt service fund should be at least 50% of annual debt expenses.
- **Budget Transfers:** City Council approves all increases and decreases to active project budgets. City staff may transfer up to \$50,000 from one project to another within the same fund and category. Project transfers in excess of \$50,000 require Council approval. All transfers are reviewed through an internal approval process.
- **Identifying operating impacts:** Requests for new projects must include an estimate of new operating costs. These costs include new staffing and operating costs essential to operate and maintain a new asset, such as a new public facility or software system. Examples of operating costs include utilities, vehicles, annual licensing, and service contracts. Operating impacts do not include new services or programs that are not essential to the new asset's operation.
- **Long-range cost estimates:** Beginning with the FY2015 budget process, staff will apply cost escalators to better estimate future construction costs. The city uses a default annual escalator of 3.5% per year. Staff apply the inflator to new construction and significant building rehabilitations. In some elements, such as public utilities and transportation, staff apply other escalators developed for those specific service areas.
- **Closing Projects:** Projects are closed when the approved scope of work is complete. Staff review project status periodically to identify projects that are finished and can be closed. If the budget for a completed project is not fully expended, generally, the budget is closed and the remaining balance accumulates in fund balance. The accumulated fund balance is available to pay for future projects.

Summary of the FY2015-FY2019 CIP

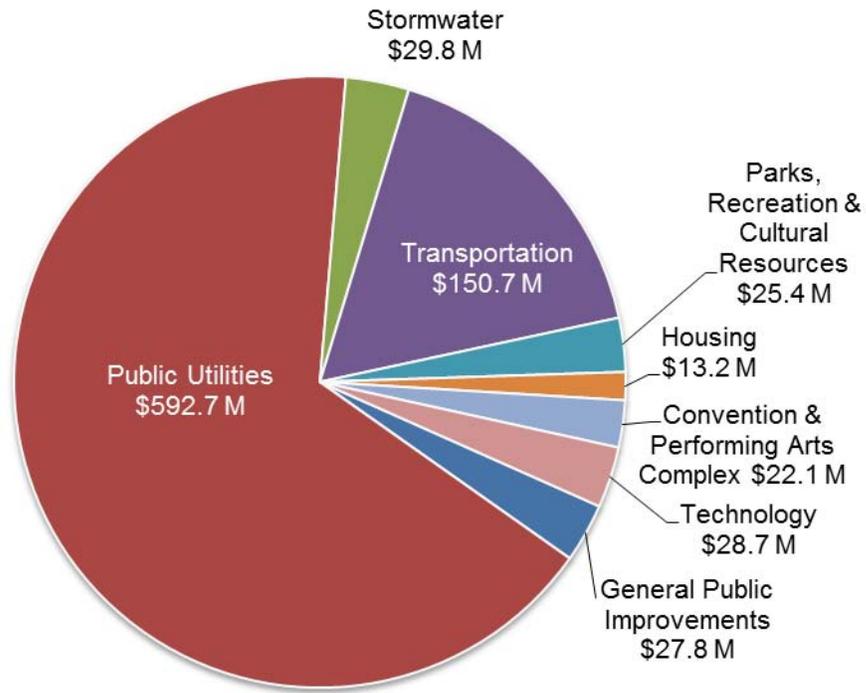
FY2015 Expenditures by Element (Year 1 of the 5-Year Plan)



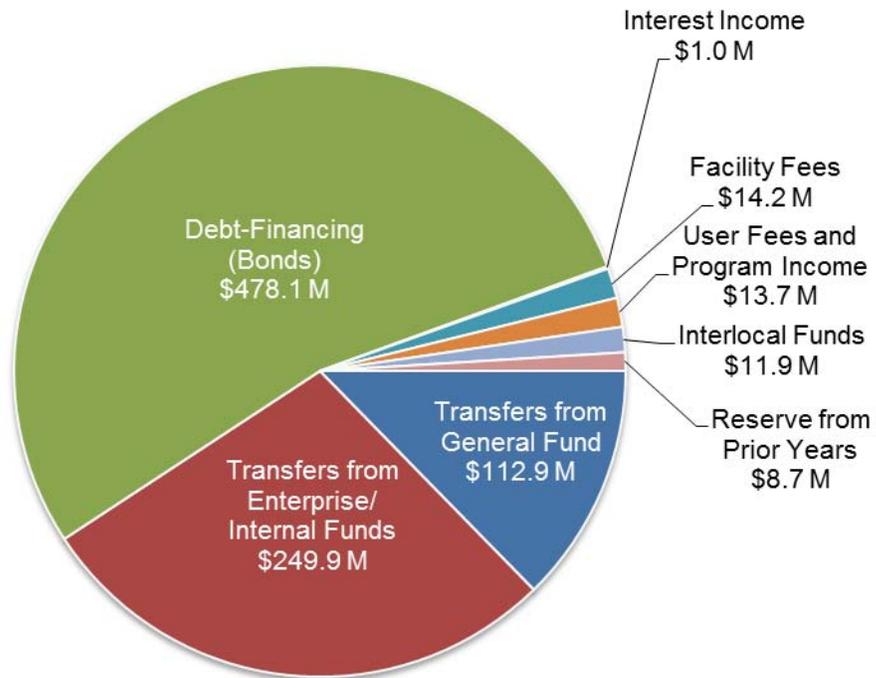
FY2015 Revenues by Source



Total Five Year Expenditures by Element



Total Five Year Revenues by Source



CIP Summary by Category

General Public Improvements	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
General Government Facility Maintenance	1,395,000	1,325,000	1,225,000	163,000	275,000	4,383,000
Public Safety Facility Maintenance	1,205,000	1,970,000	2,200,000	2,007,000	2,165,000	9,547,000
New Facilities	6,899,000	-	-	-	-	6,899,000
Economic Development	400,000	50,000	50,000	50,000	50,000	600,000
Reserve for Future Projects	-	755,000	1,125,000	2,380,000	2,110,000	6,370,000
Total	\$ 9,899,000	4,100,000	4,600,000	4,600,000	4,600,000	27,799,000

Public Utilities	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Asset Management	17,470,000	27,055,000	32,767,000	24,812,000	33,962,000	136,066,000
Sewer Interceptor Upgrades	400,000	800,000	2,750,000	200,000	200,000	4,350,000
Capital Equipment	15,000,000	-	54,000,000	-	-	69,000,000
Little River Projects	2,900,000	6,050,000	750,000	750,000	9,000,000	19,450,000
Wastewater Pump Stations	-	-	2,100,000	-	-	2,100,000
Misc Water and Wastewater	500,000	3,000,000	3,000,000	3,000,000	3,000,000	12,500,000
Reuse System	3,000,000	43,800,000	8,000,000	48,200,000	113,200,000	216,200,000
Water Tank Upgrades	500,000	1,500,000	3,000,000	3,000,000	3,000,000	11,000,000
Water Pump Stations	1,950,000	18,400,000	1,000,000	1,000,000	16,000,000	38,350,000
Watershed Initiatives	500,000	3,550,000	400,000	2,478,000	400,000	7,328,000
NRWWTP Maintenance	-	6,905,000	12,876,000	100,000	100,000	19,981,000
NRWWTP Expansion	2,750,000	1,000,000	1,000,000	1,000,000	1,000,000	6,750,000
EMJWTP Maintenance	3,100,000	2,415,000	2,250,000	7,650,000	3,200,000	18,615,000
EMJWTP Expansion	4,700,000	4,700,000	4,700,000	4,700,000	4,700,000	23,500,000
Water Main Expansions	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	7,500,000
Total	\$ 54,270,000	120,675,000	130,093,000	98,390,000	189,262,000	592,690,000

Stormwater	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Lake Preservation	1,800,000	2,200,000	-	575,000	1,100,000	5,675,000
Water Quality and Stream Restoration	1,250,000	850,000	1,774,000	2,550,000	1,500,000	7,924,000
General Drainage Infrastructure	950,000	890,000	1,050,000	1,150,000	950,000	4,990,000
Neighborhood and Street Drainage	1,000,000	2,875,000	3,595,000	1,725,000	2,006,000	11,201,000
Total	\$ 5,000,000	6,815,000	6,419,000	6,000,000	5,556,000	29,790,000

Transportation	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Major Streets Projects	26,200,000	23,546,000	17,396,000	500,000	484,000	68,126,000
Street Improvement Program	20,925,000	10,025,000	9,833,000	10,125,000	10,035,000	60,943,000
Bicycle and Pedestrian Improvements	3,250,000	2,725,000	740,000	670,000	826,000	8,211,000
Studies and Planning Projects	335,000	100,000	500,000	250,000	100,000	1,285,000
Transit	1,930,000	1,730,000	1,730,000	1,730,000	1,730,000	8,850,000
Parking	670,000	630,000	660,000	640,000	640,000	3,240,000
Total	\$ 53,310,000	38,756,000	30,859,000	13,915,000	13,815,000	150,655,000

Parks, Recreation, and Cultural Resources	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Land Acquisition	100,000	75,000	100,000	125,000	100,000	500,000
Greenway System	550,000	300,000	300,000	300,000	300,000	1,750,000
Cultural Resources	100,000	335,000	175,000	335,000	300,000	1,245,000
Facility Improvements	1,565,000	1,985,000	2,415,000	2,655,000	2,610,000	11,230,000
Plans, Studies & Development	1,500,000	542,000	655,000	725,000	775,000	4,197,000
Site Improvements	1,035,000	1,813,000	1,305,000	1,155,000	1,210,000	6,518,000
Total	\$ 4,850,000	5,050,000	4,950,000	5,295,000	5,295,000	25,440,000

Housing	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Loan Servicing	100,000	100,000	100,000	110,000	110,000	520,000
Limited Rehab/Repair	300,000	300,000	300,000	-	-	900,000
Neighborhood Revitalization	200,000	200,000	200,000	-	-	600,000
First Time Home Ownership	1,200,000	1,200,000	1,200,000	-	-	3,600,000
Joint Venture Rental	1,900,000	1,900,000	1,325,000	-	-	5,125,000
Housing Units Purchase	150,000	150,000	150,000	-	-	450,000
Transfer to Debt Service	400,000	400,000	400,000	400,000	400,000	2,000,000
Total	\$ 4,250,000	4,250,000	3,675,000	510,000	510,000	13,195,000

Convention and Performing Arts Complex

	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Raleigh Convention Center	2,446,000	1,152,000	2,709,000	2,709,000	2,906,000	11,922,000
Performing Arts Center	7,819,000	-	-	-	-	7,819,000
Walnut Creek Amphitheater	475,000	475,000	475,000	475,000	475,000	2,375,000
Total	\$ 10,740,000	1,627,000	3,184,000	3,184,000	3,381,000	22,116,000

Technology

	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
ERP Debt Transfer	3,186,987	3,134,187	3,081,387	3,027,864	-	12,430,425
Land Management System	249,000	830,382	-	-	-	1,079,382
Peoplesoft Maintenance Upgrade	2,000,000	-	-	-	-	2,000,000
Mobile Device Management	350,000	-	-	-	-	350,000
CCB Upgrade	-	650,000	-	-	-	650,000
Planning and Evaluation Studies	50,000	50,000	50,000	50,000	50,000	250,000
Small Projects Fund	75,000	75,000	75,000	75,000	75,000	375,000
Reserve for Future Projects	714,013	1,377,431	2,792,613	2,811,136	3,875,000	11,570,193
Total	\$ 6,625,000	6,117,000	5,999,000	5,964,000	4,000,000	28,705,000

Grand Total	\$ 148,944,000	187,390,000	189,779,000	137,858,000	226,419,000	890,390,000
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Revenue Sources

	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Transfers from General Fund	20,917,000	22,296,000	22,872,000	23,395,000	23,395,000	112,875,000
Transfers from Enterprise/Internal Funds	46,322,500	48,217,000	53,595,000	49,466,000	52,358,000	249,958,500
Debt-Financing (Bonds)	72,786,000	108,035,000	99,463,000	56,128,000	141,700,000	478,112,000
Interest Income	190,000	165,000	365,000	150,000	150,000	1,020,000
Facility Fees	2,650,000	3,950,000	3,750,000	1,950,000	1,850,000	14,150,000
User Fees and Program Income	2,507,500	2,750,000	2,775,000	2,810,000	2,810,000	13,652,500
Interlocal Funds	2,446,000	1,152,000	2,709,000	2,709,000	2,906,000	11,922,000
Reserve from Prior Years	1,125,000	825,000	4,250,000	1,250,000	1,250,000	8,700,000
Total	\$ 148,944,000	187,390,000	189,779,000	137,858,000	226,419,000	890,390,000

Operating Impacts from New Facilities

When the city opens a new facility, it generally takes on additional operating costs to run the facility. This can include new staffing, utilities, maintenance, and other recurring costs. New business systems can also add such recurring costs as annual licensing and maintenance contracts. During the budget process, staff review and analyze operating needs related to new facilities. Approved costs are added to the city's operating budget. There may also be one-time costs related to opening a new facility not covered in the project budget; these are funded with nonrecurring revenue sources in the city's General Fund.

The city's FY2015 operating budget will include roughly \$4.2 million in additional operating costs, and 41 new positions to open new facilities. This includes over \$3.7 million in the General Fund and \$450,000 in the Vehicle Fleet Services Internal Service Fund. The tables below list the operating impacts from new facilities added to the FY2015 operating budget.

Recurring Operating Impacts

CIP Element	Project	Description	FY 2015
General Public Improvements			
	Fire Station #29	30 additional firefighter positions to staff additional engine and ladder companies	1,760,000
	Northeast Remote Operations Facility	8 new positions, including 5 fleet mechanics, 2 fleet support staff, and 1 facility maintenance position	501,787
Transportation			
	Street Resurfacing	1 additional position to administer resurfacing contracts	56,491
Parks, Recreation and Cultural Resources			
	Horseshoe Farm Park	1 additional position to staff and program facility	64,934
	Lake Johnson Woodland Center	1 additional position to staff and program facility	96,069
Technology			
	Talent Management/NeoGov	Annual licensing costs for new system	37,000
Total Recurring Impacts			\$ 2,516,281
Total New Positions			41

One-Time Operating Impacts

CIP Element	Project	Description	FY 2015
General Public Improvements			
	Fire Station #29	Purchase new engine and ladder apparatus	1,550,000
Technology			
	Land Management System	Professional services to assist with report conversion	125,000
Total One-Time Costs			\$ 1,675,000

Grand Total Operating Impacts from New Capital Projects \$ 4,191,281

Horizon Issues

The Proposed CIP funds the city's highly prioritized needs. Staff reviewed and analyzed the business cases supporting these projects and considers them ready to move forward. In many situations, however, the city has identified a future need, but has not yet completed a detailed analysis, considered options, or designed a specific facility. These projects include facilities, capital maintenance, and business systems that will be needed in the future, often beyond the CIP's five-year timeframe. Below is a list of major needs staff will discuss and evaluate in the coming year:

- During FY2015, city staff will explore new strategies and improvements to downtown city facilities. Staff will evaluate options to consolidate city functions in fewer buildings, pursue economic development goals, and coordinate the use of downtown assets with City Council's strategic plans. The CIP includes \$100,000 in FY15 for consulting assistance.
- Staff are working with consultants to refine the business case for a city fiber network. The business case will specify service improvements from the new system, identify cost savings from linking city facilities to fiber, identify potential community partners, and include a return on investment analysis. Staff will also identify long-term operating costs, which may include new positions, network equipment leasing, and ongoing maintenance.
- Motorola has announced it will no longer service and maintain the computer-aided dispatch system (CAD) used by the city for 911 emergency dispatch. City staff are working with stakeholders throughout Wake County to plan a system replacement. In Winter 2014, the city submitted an application to the State's 911 Board to fund the replacement. The 911 Board is considering the city's request.
- If the city's acquisition efforts are successful, staff will develop the Dorothea Dix property. This may involve a wide range of recreational and cultural services. The cost to develop the property, and operate new services, will require a significant city investment.
- In the FY2014 budget, City Council approved the Capital Area Transit (CAT) Short-Range Transit Plan, expanding bus service in Raleigh. To continue the city's transit improvements, staff are analyzing the need for future transit facilities. These may include transit centers along the New Bern Road and Capital Boulevard corridors, as well as southwest Raleigh.
- To ensure our public safety staff are proficient and operate safely, the city's Fire and Police departments invest heavily in training. The police training facility, located on Spring Forest Road, is not large enough to accommodate the training needs of law enforcement officers. The fire training facility, located south of downtown, off Wilmington Street, is aging and does not include a concrete driving pad. Staff are considering options to replace these facilities in the future.
- The city will soon open two remote operations facilities, but the remote operations strategy calls for additional infrastructure to support core services in the future. Staff will consider replacing the parks operations and support facility located at Marsh Creek Park with a new remote operations facility. Other potential projects include new facilities on Mount Herman Road in the Brier Creek area and expanding the Wilder's Grove facility east of downtown.



General Public Improvements



Funded Projects	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
General Government Facility Maintenance	1,395,000	1,325,000	1,225,000	163,000	275,000	4,383,000
Public Safety Facility Maintenance	1,205,000	1,970,000	2,200,000	2,007,000	2,165,000	9,547,000
New Facilities	6,899,000	-	-	-	-	6,899,000
Economic Development	400,000	50,000	50,000	50,000	50,000	600,000
Reserve for Future Projects	-	755,000	1,125,000	2,380,000	2,110,000	6,370,000
Total General Public Improvements	\$ 9,899,000	4,100,000	4,600,000	4,600,000	4,600,000	27,799,000

Revenue Sources	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Transfers from General Fund	3,000,000	4,000,000	4,500,000	4,500,000	4,500,000	20,500,000
Interest Income	100,000	100,000	100,000	100,000	100,000	500,000
Future Bond Proceeds	6,799,000	-	-	-	-	6,799,000
Total Revenue Sources	\$ 9,899,000	4,100,000	4,600,000	4,600,000	4,600,000	27,799,000

Element Overview

The City of Raleigh's General Public Improvement element focuses on maintaining the city's general government and public safety facilities. This element also funds new facilities, selected economic development projects, and other projects funded with general tax revenues.

General government facility projects address capital maintenance at the Raleigh Municipal Building, One Exchange Plaza, and Dillon Building. Public safety facility maintenance projects focus on police, fire and emergency communications facilities and infrastructure. The scope of all these projects includes life safety improvements, mechanical system replacements, structural repairs, and office space renovations. Economic development projects assist small businesses and visitors to our growing downtown. This element also funds new facilities, such as new fire stations, and funds planning studies for future city needs.

Recent Accomplishments

- Completed mechanical, electrical, plumbing assessments, as well as asbestos and lead paint abatement analysis for all fire stations.
- Completed parking lot pavement at Dillon Building (310 W. Martin Street) and relocation of Raleigh Television Network (RTN) satellite.
- Completed mechanical system replacements for Fire Stations 4, 16, and 19.

Work Plan Highlights

- Both the Northeast and Downtown Remote Operations Facilities are under construction. City staff expect the Northeast site to be occupied in June 2014 and the Downtown site in June 2015
- Design of the new Critical Public Safety Facility is underway. The facility will host the city's emergency communications (911 dispatch), emergency operations center, traffic operations center, and critical technology infrastructure.

- Construction of Fire Station 29 at 12117 Leesville Road has started and is expected to conclude in November 2014.
- Design has commenced for the replacement Fire Station 12 on Poole Road and the expansion of Fire Station 11 on Glenridge Road.
- Raleigh Fire Department, in collaboration with other city departments, has developed a multi-year fire station modernization plan. Funding for this plan addresses deferred maintenance in 15 stations constructed prior to 1980, including structural repairs, mechanical system replacement, and significant renovations.
- Land acquisition efforts for Station 3 in southeast Raleigh and Station 14 in the Blue Ridge Road District Study area are ongoing.

Operating Impacts

- The General Fund budget includes roughly \$1.68 million to fund 30 firefighter positions at the new Fire Station 129 on Leesville Road. These positions will staff an engine and ladder companies, improving response times and aerial coverage in the Leesville area. The operating budget also includes \$1.55 million to purchase new apparatus for the station.
- Opening the Northeast Remote Operations Facility in June 2014 affects the FY 2015 operating budget significantly. Seven new positions will be added to the city's fleet service to support equipment maintenance and repair. One additional position is added for facility maintenance. The facility will position street and sidewalk maintenance crews closer to their service areas. This facility's operating impact totals just over \$500,000.
- Annual operating costs for the Downtown Remote Operations Facility, expected to open in Summer 2015, will be addressed in next year's FY2016 operating budget. At present, the estimated operating cost of this facility is roughly \$600,000 per year. Staff continue to analyze and refine these cost estimates.
- Annual operating costs for the Critical Public Safety Center, expected to open March 2016, will be included in next year's FY2016 operating budget. The estimated operating cost of this facility is roughly \$900,000 per year, however, staff continue to refine these estimates.
- Expansion of Fire Station 11, and the upcoming replacements of Fire Stations 12 and 14 will likely generate nominal operating increases for utilities and maintenance.
- Staff estimate a 4.4% decrease in kilowatt consumption at the Raleigh Municipal Building, One Exchange Plaza, and Dillon Building due to completed replacements and upgrades.
- Electronic Data Interchange (EDI) implementation will facilitate better communication between facilities staff and end-users about billing and usage. This will enable city staff to better monitor and manage utility accounts.

Horizon Items

- During FY2015, city staff will explore new strategies and improvements to downtown city facilities. Staff will evaluate options to consolidate city functions in fewer buildings, pursue economic development goals, and coordinate the use of downtown assets with City Council's strategic plans. The CIP includes \$100,000 in FY15 for consulting assistance.
- Staff will further explore options to the police training center on Spring Forest Road. The facility, which the police department has used since 1987, is roughly 13,000 square feet in size. This is arguably too small for the department's current and future training needs. The building is currently used for new recruit academies, ongoing officer training and development, departmental meetings, and daily physical training.
- Complementing the city's Climate Energy Action Plan (CEAP), city staff continue to identify opportunities for more efficient mechanical, lighting, and system controls.

- City staff continue to explore options to replace the Keeter Training Center. This could involve the acquisition of 10 or more acres of land, and construction of a new concrete driving course, burn building, and classroom facilities.
- City staff will analyze the need for a future station near the intersection of Harps Mill Road and Litchford Road in Northeast Raleigh. This location would address a gap in fire service coverage and accommodate city growth.

General Government Facility Maintenance

This category of projects funds major capital needs at the city’s general government facilities in downtown—Raleigh Municipal Building (RMB), One Exchange Plaza (OEP), and the Dillon Building. City staff analyzes, audits, and assesses facilities on a periodic schedule. Then staff identifies necessary building repairs, replacement of mechanical, electrical, and plumbing (MEP) systems, and other projects that will improve life safety, prolong building lifespan, and make facilities more adaptable for staff.

General Government Facility Maintenance	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
One Exchange Plaza						
Tenant Aesthetic Improvements	230,000	-	-	163,000	-	393,000
Air Handler Coil	850,000	-	-	-	-	850,000
Generator	-	200,000	-	-	-	200,000
Light System Controls	-	125,000	-	-	-	125,000
HVAC Air Distribution	-	650,000	-	-	-	650,000
Freight Elevator	-	-	300,000	-	-	300,000
Raleigh Municipal Building						
Boiler Replacement	315,000	-	-	-	-	315,000
Restroom Lifecycle	-	-	475,000	-	-	475,000
Caulking and Packaging	-	-	250,000	-	-	250,000
Lighting Control System	-	-	175,000	-	-	175,000
Dillon Building						
Elevator Repair	-	300,000	-	-	-	300,000
Electrical Panel	-	50,000	-	-	-	50,000
Sprinkler Replacement	-	-	-	-	200,000	200,000
Solar LED Batteries Replacement	-	-	25,000	-	75,000	100,000
Subtotal	\$ 1,395,000	1,325,000	1,225,000	163,000	275,000	4,383,000

Highlighted Projects

OEP Tenant Aesthetic Improvements: \$393,000

This project includes installation of an automatic transfer switch and remote hook-up for generator backup for the One Exchange Plaza building and replaces roughly 90,000 square feet of old ceiling tiles.



OEP Air Handler Coil: \$850,000

This project funds the design and contract to replace the main air handler unit coil at One Exchange Plaza. This will allow for proper airflow, heating and cooling to each room in the building. In 2008, this equipment reached the end of its life expectancy (25 years) and needs to be replaced. The age of the equipment replacement parts are not readily available and in some instances obsolete.



OEP HVAC Ducts and Air Distribution: \$650,000

This project includes replacement of mechanical systems, variable air controllers, and installation of automated building system controls. These electronic devices monitor and control the mechanical and lighting systems in the building. A well-maintained and correctly installed duct system is necessary for successful HVAC system operation and maintenance of a facility's ideal temperature. The age of this equipment makes it difficult to find replacement parts, which are now obsolete.

**RMB Boiler Replacement: \$315,000**

This project funds the design and replacement of the original boiler in the municipal building, installed in 1983. This includes removal of the existing system and incorporation of mechanical and electrical improvements associated with the project. This 31 year old boiler is considered a high priority for replacement.

**RMB Restroom Lifecycle: \$475,000**

This project includes the replacement of existing toilet partitions in bathrooms throughout the City. In addition, this project includes removal and installation of new low flow fixtures throughout the building.

**RMB Caulking and Packing: \$250,000**

This project includes caulking and sealing the Raleigh Municipal Building building's envelope to prevent air infiltration through cracks and holes in the walls, ceiling, and floor. Caulking and sealing is a simple energy-efficiency measure, and it prevents water intrusion, reduces mold issues, and prevents long-term damage to the facility.



Public Safety Facility Maintenance

This category of projects addresses maintenance and improvements in the city's public safety facilities. Raleigh has 28 fire stations and several other police, fire, and emergency communication facilities. These projects keep the facilities safe for employees, extend the useful life of the assets, and improve their operating efficiency. All public safety departments work with the Facilities and Operations Division and Construction Management to identify and prioritize these projects.

Public Safety Facility Maintenance	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Police Headquarters						
Carpet Replacement	100,000	-	90,000	-	-	190,000
Sewer Ejector	46,000	-	-	-	-	46,000
Roof Replacement	-	115,000	-	-	-	115,000
HVAC Replacement	-	-	25,000	225,000	-	250,000
Exterior Waterproofing	-	-	-	-	310,000	310,000
Elevator Hydraulics	-	-	-	-	250,000	250,000
Police Training Center Improvements	-	300,000	-	-	-	300,000
Police Detective Campus Generator	-	-	335,000	-	-	335,000
Police Downtown Station Roof Replacement	-	250,000	-	-	-	250,000
Fire Stations						
Deferred Maintenance Program	670,000	1,000,000	1,300,000	1,300,000	1,300,000	5,570,000
Lead Paint & Asbestos	100,000	100,000	100,000	100,000	100,000	500,000
Workspace Improvements	205,000	205,000	205,000	205,000	205,000	1,025,000
Roof Repair	84,000	-	-	-	-	84,000
Fire Stockroom HVAC	-	-	145,000	-	-	145,000
Barwell Rd-UPS Replacement	-	-	-	177,000	-	177,000
Subtotal	\$ 1,205,000	1,970,000	2,200,000	2,007,000	2,165,000	9,547,000

Highlighted Projects

Fire Station Lead Paint and Asbestos: \$500,000

This project includes removal of "asbestos containing material" (ACM) and abatement of lead paint at fire station facilities. This effort will bring the city's older facilities in compliance with state and federal regulations and make these facilities safer for firefighters to use.



Police Cabarrus Station Roof: \$250,000

This project includes roof replacement and asbestos removal at the Police evidence building located at 218 W. Cabarrus Street. The roof is in poor condition and could experience roof leakages, which would damage the interior infrastructure, office areas, and evidence storage area.



Police Six Forks Headquarters Improvements: \$1,161,000

The city acquired the Six Forks building in 2008, and began using it as the Police Department's headquarters and for the North District Station. This collection of six projects will replace the building's HVAC system and elevator hydraulics, repair the building's roof, and improve sewer flow. The scope also includes exterior waterproofing and significant carpet replacement.



Police Atlantic Avenue Generator: \$335,000

The Police Department's detective campus on Atlantic Avenue does not presently have an emergency backup generator. Installing a generator ensures the department's intelligence center and detective units have uninterrupted power during critical weather events or other emergencies.



Fire Station Deferred Maintenance: \$5,570,000

This six year program funds the renovations of 15 stations built prior to 1980. Staff from various city departments created a plan that identified needed improvements and ensured compliance with building codes and regulations. Renovations include slab repair, mechanical, electrical, plumbing, roof, structural, architectural repairs, and lead/asbestos abatement. These maintenance projects will prolong the useful life of these facilities, ensure employee safety, and reduce operating costs.



New Facilities

This category includes new general government and public safety facilities. City staff routinely explore opportunities and options to acquire or build new facilities needed to serve citizens. Projects include design and construction funds and periodic studies needed to analyze and evaluate facility options. The FY2015-FY2019 only funds two new facilities, but there are several new facilities under construction, including a Northeast and Downtown Remote Operations Facilities.

New Facilities	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Fire Station #14 Replacement (Debt)	3,082,000	-	-	-	-	3,082,000
Fire Station #6 Replacement (Debt)	3,717,000	-	-	-	-	3,717,000
Downtown Planning Study	100,000	-	-	-	-	100,000
Subtotal	\$ 6,899,000	-	-	-	-	6,899,000

Highlighted Projects

Fire Station 14 Relocation: \$3,082,000 (Project total is \$7,216,000)

This project will relocate Station 14 from its current location at 4220 Lake Boone Trail to a parcel along Blue Ridge Road. A larger land parcel is needed to accommodate a new station that can house modern apparatus. The station will contain apparatus drive-thru bays and living quarters for firefighters. Land acquisition efforts are ongoing.



Fire Station 6 Replacement: \$3,717,000 (Project total is \$6,417,000)

Fire Station 6, located at 2601 Fairview Road, was constructed in 1949. The current building has significant structural and mechanical problems due to its age. The small station (5,400 square feet) also provides little work and living space for staff, and prevents it from accommodating larger fire apparatus. The new station will be roughly 16,200 square feet in size, constructed on the same property, and will be large enough to accommodate an aerial unit (ladder truck). This project is partially financed using two-thirds bonds (\$2.7 million).



Fire Station 12 Relocation: No additional appropriation in the CIP (Project total of \$5,300,000)

This project, funded initially in FY2013, is in the design phase. This project funds construction of a new fire station 12 that will be relocated from 3409 Poole Road further east, improving unit response times in the assigned area. The new station will also accommodate an aerial apparatus (ladder truck), improving aerial coverage in the eastern portion of the city. The project budget does not include land acquisition; this was funded through separately in FY2009.



Downtown Remote Operations: No additional appropriation in the CIP (Project total of \$55,675,000)

In December 2007, the city purchased property for the Downtown Remote Operations Facility on Raleigh Boulevard, just north of the I-440 beltline. The facility will host the fleet maintenance, street maintenance, traffic engineering, and a radio shop. A shared fuel and wash facility will support all city services. Total site development is 35.35 acres with 174,660 square foot of building space. The initial site work phase began October 2013 and estimated completion date is Spring 2015. The FY2016 operating budget will include additional requests to open and operate the facility.



Critical Public Safety Facility: No additional appropriation in the CIP (Project total of \$71,000,000)

In February 2012, City Council authorized the development of a new Critical Public Safety Facility on the vacant six acre parcel located at the corner of North Raleigh Boulevard and Brentwood Road. The facility will house the city's Emergency Communications Center (911 dispatch), Emergency Operations Center (EOC), and a data infrastructure center. The initial site work contract package will be presented to Council in June 2014 and a second contract package in August 2014. During FY2015, staff will analyze the operating impacts related to this facility.



Economic Development

This category includes narrowly-scoped economic development projects that assist small businesses and visitors to downtown Raleigh.

Economic Development	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Façade Improvements	50,000	50,000	50,000	50,000	50,000	250,000
Warehouse District Streetscape	250,000	-	-	-	-	250,000
Downtown Wayfinding Signs	100,000	-	-	-	-	100,000
Subtotal	\$ 400,000	50,000	50,000	50,000	50,000	600,000

Highlighted Project

Façade Grants Program: \$250,000

This program helps small businesses rehabilitate older commercial properties with matching cash grants for exterior improvements. Improvements must comply with design standards specific to Pedestrian Business Overlay Districts (PBOD) streetscape plans and the Downtown Element of 2030 Comprehensive Plan. Standard grant awards are for \$5,000. The city awards up to 10 grants per year.





Public Utilities

EM Johnson Water Treatment Plant

- Solids Handling
- New Laboratory Facility
- Chemical Storage Tank Replacement
- UV/Solids Handling
- Settling Basin Rehabilitation
- Clearwell Expansion
- Ozone Expansion
- Sedimentation Improvements
- Facility/Equipment Rehabilitation
- Add. High Service Discharge Pipe (B302)
- High Service Pump No. 1 Upgrade (B301)
- Filter/Sed/Floc Basin Additions
- Facility Rehabilitation

1 MGD Pump Upgrade at Mt. Herman PS (B401)

Replace Springdale Tank (B402)

Turkey Creek Interceptor Rehab

Crabtree Valley Sewer Replacement

Crabtree Basin WW System Conveyance Improvements

Big Branc Interceptor Parallel

Upper Pigeon House Rehabilitation (Portion of C8)

Pullen Park Pump Station 24" Discharge

Bain Pump Station Upgrade (B103)

Wildcat Branch Interceptor Parallel

DEBWTP Water Transmission Main (B101)

Lower Walnut Creek Parallel Interceptor (W1)

Big Branch Pump Station

Debris Drying Pads

Crabtree Lift Station Improvements

Utility Field Operation Facilities Improvements

Crabtree Lift Station Improvements

Neuse River East Parallel Interceptor Phase IV

Neuse River East Parallel Interceptor Ph III

Poplar Creek Interceptor

E. Neuse Reg. Pump Station & Force Main (W16A&17A)

Smith Creek WWTP Influent Screen Replacement

Harris Creek Interceptor Parallel

Oak Forest 30" wtr Main Atlantic Ave-Capital Blvd

Neuse River Waste Water Treatment Plant

- Dewatering Building Odor Control
- 15 MGD Capacity Expansion (Includes W15A)
- Electrical Transformer Rehabilitation
- Anerobic Digestors
- Land Purchase
- Thickening Bld Switchgear Replacement
- Reuse Pump Dising Irr I
- Reuse System Expansion
- Solar Dryers - BFP Replacement
- Onsite Reuse Improvements

Little River Res. Wetland Mitig. Little River Reservoir County

Zebulon Water line on NC 97 (B903)

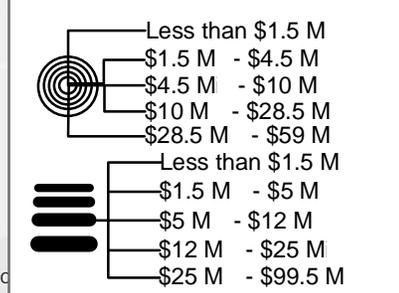
Wendell Blvd Water line (B902)

Control Valve Installation at Wendell Blvd (B901)

Pooler Road Booster Pump Station (B102)

Wendell Lake Glad Rd. Demolition

* Some capital projects involve maintenance at multiple facilities throughout the city. These projects are not reflected on this map.



Public Utilities



Funded Projects	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total	FY 2020 to FY	
							2024	10 Year Total
Asset Management	17,470,000	27,055,000	32,767,000	24,812,000	33,962,000	136,066,000	198,720,000	334,786,000
NRWWTP Maintenance	400,000	800,000	2,750,000	200,000	200,000	4,350,000	1,000,000	5,350,000
NRWWTP Expansion	15,000,000	-	54,000,000	-	-	69,000,000	26,200,000	95,200,000
EMJWTP Maintenance	2,900,000	6,050,000	750,000	750,000	9,000,000	19,450,000	8,750,000	28,200,000
EMJWTP Expansion	-	-	2,100,000	-	-	2,100,000	156,400,000	158,500,000
Little River Projects	500,000	3,000,000	3,000,000	3,000,000	3,000,000	12,500,000	30,900,000	43,400,000
Sewer Interceptor Upgrades	3,000,000	43,800,000	8,000,000	48,200,000	113,200,000	216,200,000	82,200,000	298,400,000
Reuse System	500,000	1,500,000	3,000,000	3,000,000	3,000,000	11,000,000	15,000,000	26,000,000
Wastewater Pump Stations	1,950,000	18,400,000	1,000,000	1,000,000	16,000,000	38,350,000	5,000,000	43,350,000
Water Pump Stations	500,000	3,550,000	400,000	2,478,000	400,000	7,328,000	2,690,000	10,018,000
Water Main Expansions	-	6,905,000	12,876,000	100,000	100,000	19,981,000	7,387,000	27,368,000
Water Tank Upgrades	2,750,000	1,000,000	1,000,000	1,000,000	1,000,000	6,750,000	8,000,000	14,750,000
Miscellaneous Water and Wastewater	3,100,000	2,415,000	2,250,000	7,650,000	3,200,000	18,615,000	8,000,000	26,615,000
Capital Equipment	4,700,000	4,700,000	4,700,000	4,700,000	4,700,000	23,500,000	20,000,000	43,500,000
Watershed Initiatives	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	7,500,000	7,500,000	15,000,000
Total Public Utilities	\$54,270,000	120,675,000	130,093,000	98,390,000	189,262,000	592,690,000	577,747,000	1,170,437,000

Revenue Sources	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total	FY 2020 to FY	
							2024	10 Year Total
Transfer-Public Utilities (water)	17,200,000	15,670,000	16,970,000	23,620,000	19,120,000	92,580,000	105,750,000	198,330,000
Watershed Protection Fees	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	7,500,000	7,500,000	15,000,000
Transfer-Public Utilities (wastewater)	20,700,000	22,885,000	27,447,000	17,142,000	26,942,000	115,116,000	141,720,000	256,836,000
Bond Proceeds (water)	1,270,000	17,755,000	17,376,000	4,928,000	10,500,000	51,829,000	200,377,000	252,206,000
Bond Proceeds (wastewater)	13,600,000	62,865,000	66,800,000	51,200,000	131,200,000	325,665,000	122,400,000	448,065,000
Total Revenues	\$54,270,000	120,675,000	130,093,000	98,390,000	189,262,000	592,690,000	577,747,000	1,170,437,000

Element Overview

The city's public utilities system treats and distributes drinking water, collects and treats wastewater, distributes reuse water and protects watersheds in Raleigh, Garner, Rolesville, Wake Forest, Knightdale, Wendell and Zebulon. Public utilities capital projects are funded by revenues received from rates and fees for services, and from fees associated with new development. Funding for projects consists primarily of revenue bonds, pay-go (cash-funded), and State Revolving Fund loans from the North Carolina Department of Environment and Natural Resources. The utility system plans to invest \$1 billion in capital needs over the next 10 years, including \$54 million in FY15.

This element includes projects for:

- Treatment and distribution of the city's drinking water supply,
- Collection and treatment of wastewater,
- Maintenance projects involving the rehabilitation or replacement of the aging water distribution system, sewer collection system, and water and wastewater treatment infrastructure,
- Construction and maintenance of elevated water storage tanks and pump stations,

- Building projects for operations,
- Developing future water supply, and
- Delivery of reuse water that has been processed by the wastewater treatment plant.

Recent Accomplishments

The Public Utilities Department completed several important projects during FY14 including:

- Neuse River Wastewater Treatment Plant (NRWWTP) Expansion to 75 MGD – Phase II (Influent Pump Station)
- E.M. Johnson Water Treatment Plant (EMJWTP) Filter Bottom Rehabilitation & Sodium Hypochlorite Replacement
- Crabtree Creek Wastewater Conveyance Improvements Phase I
- Zebulon Little Creek WWTP Upgrade & Rerating to 2.2 MGD
- Asset Management Program Development
- Marsh Creek Sanitary Sewer Improvements
- Various Water and Sanitary Sewer Main Replacements
- Knightdale Mango Creek Sanitary Sewer Improvements

Work Plan Highlights

- Begin construction of the Crabtree Basin Wastewater System Conveyance Improvement Project Phase II
- Begin construction of the Wake Forest Richland and Smith Creek Interceptor Improvements
- Continue construction of the NRWWTP Expansion to 75 MGD Phase III and design and bidding of Phase IV.
- Complete the DEBWTP Backwash Waste Recycle Facility project.
- Update the Water Distribution System Master Plan
- The addition of nearly \$200M in water and wastewater asset management related projects. Projects include the assessment and rehabilitation/replacement of our water and sanitary sewer pipelines.
- Acceleration of design funds for the NRWWTP Anaerobic Digester project.
- Addition of Big Branch Pump Station Improvements to address wet weather flow compliance.
- Addition of a Raw Water Reservoir at DEBWTP.

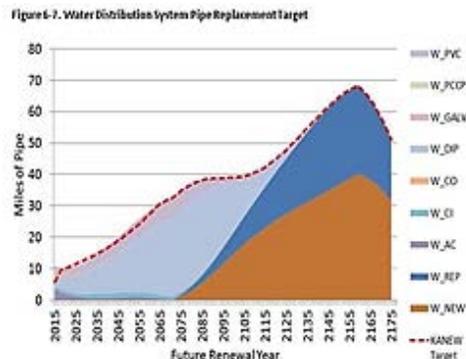
Horizon Items

- Major initiatives for the Public Utilities Department over the next three to seven years revolve around infrastructure stability, compliance, completion of the merger capital improvements and planning for growth.
- Future infrastructure stability projects include the replacement of water and sanitary sewer mains and the rehabilitation of plants, pump stations, and elevated storage tanks.
- Compliance related projects comprise a large portion of the CIP and include such projects as the Crabtree Creek Wastewater System Conveyance Improvement, East Neuse Regional Pump Station and Interceptor System, Upper Pigeon House Sanitary Sewer Improvements and Lower Walnut Creek Wastewater System Improvements.

- The utility system is in the final stages of all capital projects related to the mergers with surrounding towns. Notable projects that remain to be completed include: Wake Forest Richland and Smith Creek Parallel Interceptors and Zebulon Beaverdam Creek Interceptor Improvements.

Asset Management

The City of Raleigh Public Utilities Department recently developed an Asset Management Plan (AMP) with the goal to apply asset management best practices to develop a sustainable and continuous infrastructure replacement prioritization plan. The AMP was completed in August 2013, and the recommendations for condition assessment and infrastructure replacement and rehabilitation (R&R) have been incorporated in the five year CIP. The AMP developed a risk-based prioritization process to answer “how much” R&R is required to meet current and anticipated future rates of infrastructure replacement to mitigate risks of failure.



Asset Management	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total	FY 2020 to FY		10 Year Total
							2024	2029	
Main Replacement	9,000,000	12,000,000	12,000,000	14,000,000	14,000,000	61,000,000	70,000,000	131,000,000	
Force Main Assessment	430,000	430,000	182,000	182,000	182,000	1,406,000	10,410,000	11,816,000	
Watermain Assessment	920,000	920,000	920,000	920,000	920,000	4,600,000	-	4,600,000	
Thoroughfare Mains	400,000	400,000	400,000	400,000	400,000	2,000,000	2,000,000	4,000,000	
Gravity Sewer Condition Assessment	2,210,000	1,105,000	1,105,000	-	-	4,420,000	-	4,420,000	
Aerial Projects	2,060,000	1,360,000	1,360,000	-	-	4,780,000	-	4,780,000	
Data Management Program	575,000	350,000	100,000	-	-	1,025,000	-	1,025,000	
Pump Station & ARC Flash Assessment	225,000	100,000	-	-	-	325,000	-	325,000	
Galvanized Pipe Replacement Watermain	1,650,000	-	-	-	-	1,650,000	-	1,650,000	
Replacement/Rehab Force Main	-	1,800,000	3,100,000	3,700,000	4,000,000	12,600,000	30,500,000	43,100,000	
Replacement/Rehab Gravity Sewer	-	1,590,000	1,600,000	1,610,000	1,610,000	6,410,000	8,170,000	14,580,000	
Replacement/Rehab Gravity Sewer	-	7,000,000	12,000,000	4,000,000	12,850,000	35,850,000	67,140,000	102,990,000	
Replacement/Rehab Gravity Sewer Assessment	-	-	-	-	-	-	10,500,000	10,500,000	
Subtotal	\$ 17,470,000	27,055,000	32,767,000	24,812,000	33,962,000	136,066,000	198,720,000	334,786,000	

Highlighted Project

Main Replacement \$131,000,000 (10 year total)

A significant portion of the water distribution and sewer collection system in the city’s service area is over 50 years old. Based on the recommendations of most professional utility organizations, 1-2% of the city’s system should be replaced each year. A gradual increase in expenditures is expected to keep up with the needs of Raleigh’s service area.



Sewer Interceptor Upgrades

The 15 projects represented in the Sewer Interceptor Upgrade category are the result of the 2013 Sewer System Capacity Study. The projects outlined in the study address wet weather flow capacity within the sanitary sewer collection system. The CIP projects identified met three objectives: reduce the impact of excessive infiltration and inflow into the system, development and calibration of the hydraulic models for the Crabtree, Walnut, and Neuse wastewater collection basins and minimize at-risk segments in the system for sewer overflows.

Sewer Interceptor Upgrades	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total	FY 2020 to FY	
							2024	10 Year Total
Lower Walnut Creek Interceptor	2,000,000	23,000,000	-	-	-	25,000,000	-	25,000,000
Crabtree Valley Sewer Replacement	1,000,000	1,000,000	-	20,600,000	-	22,600,000	-	22,600,000
Neuse River East Parallel Phase III	-	3,500,000	5,000,000	-	91,000,000	99,500,000	-	99,500,000
Neuse River East Parallel Phase IV	-	1,500,000	3,000,000	-	-	4,500,000	24,000,000	28,500,000
Poplar Creek Interceptor	-	6,000,000	-	-	-	6,000,000	-	6,000,000
Upper Pigeon House Rehab	-	8,800,000	-	7,600,000	-	16,400,000	-	16,400,000
Crabtree Basin WWS Conveyance Impr	-	-	-	20,000,000	-	20,000,000	-	20,000,000
Big Branch Interceptor Parallel	-	-	-	-	7,700,000	7,700,000	-	7,700,000
Harris Creek Interceptor Parallel	-	-	-	-	7,500,000	7,500,000	-	7,500,000
Wildcat Branch Interceptor Parallel	-	-	-	-	2,000,000	2,000,000	-	2,000,000
Turkey Creek Interceptor Rehab	-	-	-	-	5,000,000	5,000,000	-	5,000,000
Upper Mine Creek Interceptor	-	-	-	-	-	-	17,300,000	17,300,000
Marsh Creek Interceptor Parallel Phase 1	-	-	-	-	-	-	3,000,000	3,000,000
Neuse River East Parallel Phase V	-	-	-	-	-	-	34,000,000	34,000,000
Southwest Beaver Creek Interceptor	-	-	-	-	-	-	2,900,000	2,900,000
State Street Interceptor	-	-	-	-	-	-	1,000,000	1,000,000
Subtotal	\$ 3,000,000	43,800,000	8,000,000	48,200,000	113,200,000	216,200,000	82,200,000	298,400,000

Highlighted Projects

Neuse River East Parallel Interceptor Phase III & IV
\$128,000,000 (10 year total)

This project is the backbone to Raleigh’s long range sanitary sewer collection system to address current and projected wet weather flow and growth. Improvements include approximately 28,000 linear feet of 96” & 84” diameter sanitary sewer from the proposed East Neuse Regional Pump Station to Anderson Point Park at the confluence of Crabtree Creek and the Neuse River.



Crabtree Valley Sewer Replacement \$22,600,000

Replace 8,500 LF of 30” sanitary sewer main with a 54/60” sanitary sewer main from Glenwood Ave. to just downstream of Duraleigh Rd. along Crabtree Creek. The project will not only replace an existing pipeline that is in poor condition but will also address wet weather flow capacity restrictions.



Lower Walnut Creek \$25,000,000

Replace 33,000 LF of 42" and 54" sanitary sewer main with a 72" sanitary sewer main from Barwell Rd. to just downstream of State St. along Walnut Creek. The project will not only replace an existing pipeline that is in poor condition but will also address wet weather flow capacity restrictions.



Neuse River Wastewater Treatment Plant Expansion

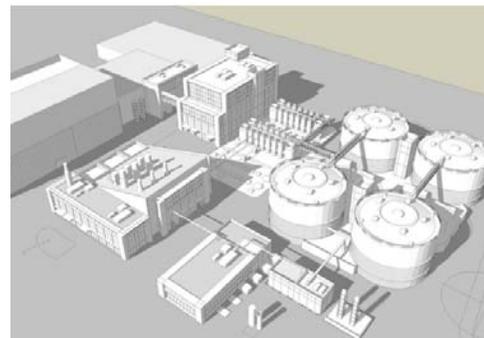
This category includes the construction of additional waste treatment facilities at the NRWWTP that will increase the hydraulic treatment capacity of the facility from 60 to 75 million gallons per day (MGD). The project section also includes the construction of anaerobic digesters to provide a fuel source, methane gas, for generating electricity while simultaneously digesting sludge.

NRWWTP Expansion	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total	FY 2020 to FY	
							2024	10 Year Total
Anaerobic Digesters	5,000,000	-	54,000,000	-	-	59,000,000	-	59,000,000
Capacity Expansion	10,000,000	-	-	-	-	10,000,000	-	10,000,000
Solar Dryers	-	-	-	-	-	-	26,200,000	26,200,000
Subtotal	\$15,000,000	-	54,000,000	-	-	69,000,000	26,200,000	95,200,000

Highlighted Project

NRWWTP Anaerobic Digesters \$59,000,000

Project includes construction of anaerobic digesters at the NRWWTP including thermal hydrolysis and cogeneration of heat and power (CHP).



Wastewater Pump Stations

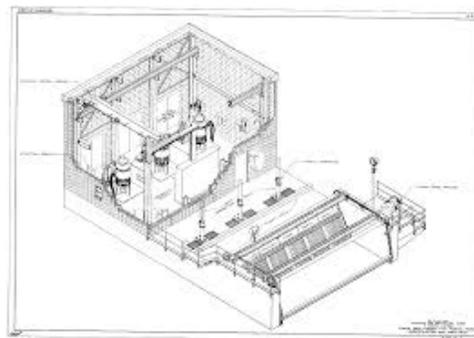
The CIP funding requested for wastewater pump stations includes the construction, rehabilitation, replacement or removal of sanitary sewer pump station facilities.

Wastewater Pump Stations	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total	FY 2020 to FY 2024	10 Year Total
Sewer Pump Station Removal	500,000	1,000,000	1,000,000	1,000,000	1,000,000	4,500,000	5,000,000	9,500,000
Big Branch Pump Station	450,000	4,000,000	-	-	-	4,450,000	-	4,450,000
Crabtree Lift Station	1,000,000	-	-	-	-	1,000,000	-	1,000,000
East Neuse Regional Pump	-	13,400,000	-	-	15,000,000	28,400,000	-	28,400,000
Subtotal	\$ 1,950,000	18,400,000	1,000,000	1,000,000	16,000,000	38,350,000	5,000,000	43,350,000

Highlighted Project

East Neuse Regional Pump Station \$28,400,000

Construction of a new pump station and force main near the NRWWTP to pump flows from the East Neuse and Poplar Creek Interceptors to the NRWWTP. The new pump station will have a peak flow rate of 89 Million Gallons Per Day. This pump station will serve as the backbone to the City’s long range sanitary sewer conveyance needs for current wet weather and future growth flows.



Reuse System

The City is currently undertaking an update to the Reuse Master Plan. The original Master Plan was adopted in 2007. In the time since the adoption, the City has constructed more than 18 miles of reuse pipeline and one elevated 750,000 gallon storage tank. Now entering the second phase, the Reuse Master Plan Update is focused on constructing the smartest reuse system possible.

Reuse System	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total	FY 2020 to FY 2024	10 Year Total
Neuse River Off-site Reuse System Expansion	500,000	500,000	2,000,000	2,000,000	2,000,000	7,000,000	10,000,000	17,000,000
NRWWTP Onsite Reuse Improvements	-	1,000,000	1,000,000	1,000,000	1,000,000	4,000,000	5,000,000	9,000,000
Subtotal	\$ 500,000	1,500,000	3,000,000	3,000,000	3,000,000	11,000,000	15,000,000	26,000,000

Highlighted Project

NRWWTP Onsite Reuse \$9,000,000 (10 year total)

This project allows for the installation of additional irrigation lines and sprinkler heads for the NRWWTP farm agricultural fields. By using effluent from the wastewater treatment plant for irrigation, the City reduces the amount of plant effluent and nitrogen that would ultimately be discharged into the Neuse River. Reuse water availability at the biosolids application fields would improve crop yield and maximize the application rates that could be used during a drought year.



Neuse River Wastewater Treatment Plant Maintenance

Projects in this category fund the rehabilitation and replacement of major equipment and associated facilities at all three wastewater treatment plants. These projects improve the plants to continue reliable daily system operations.

NRWWTP Maintenance	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total	FY 2020 to FY	
							2024	10 Year Total
Land Purchase	200,000	200,000	200,000	200,000	200,000	1,000,000	1,000,000	2,000,000
Dewatering Bldg Odor Ctrl	200,000	-	1,800,000	-	-	2,000,000	-	2,000,000
Thickening Bldg	-	300,000	-	-	-	300,000	-	300,000
Electrical Trans Rehab	-	300,000	-	-	-	300,000	-	300,000
Influent Screen Replacement	-	-	750,000	-	-	750,000	-	750,000
Subtotal	\$ 400,000	800,000	2,750,000	200,000	200,000	4,350,000	1,000,000	5,350,000

Highlighted Project

NRWWTP Dewatering Building Odor Control \$2,000,000

Project includes mechanical system and odor control improvements at the Neuse River Wastewater Treatment Plant. Improvements are necessary to remove and treat foul air from the dewatering building, minimize corrosion, and reduce odor complaints. Individual project components include a custom central air handling unit, new exhaust fans, new cooling unit, new positive pressure unit for the electrical room and a biofilter for scrubbing foul air from the sludge holding tanks.



Water Main Expansions

The 16 projects represented in the Water Main Expansion section add approximately 129,800 linear feet of water main capacity to serve various growth areas in the city and merger communities. The water main expansion projects range in pipe diameter between 12 to 30 inches. The water mains will be installed along major thoroughfares as recommended in the 2008 Water System Master.

Water Main Expansions	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total	FY 2020 to FY 2024	10 Year Total
DEBWTP Transmission Main	-	1,400,000	10,600,000	-	-	12,000,000	-	12,000,000
Annexation-Water	-	100,000	100,000	100,000	100,000	400,000	500,000	900,000
Oak Forest 30 Water Main	-	2,900,000	-	-	-	2,900,000	-	2,900,000
Wendell Blvd Water Line	-	1,449,000	-	-	-	1,449,000	-	1,449,000
NC 98 Bypass Waterline	-	493,000	-	-	-	493,000	-	493,000
US401/Ligon Mill to Jonesville	-	430,000	-	-	-	430,000	-	430,000
Franklin Street Waterline 12"	-	133,000	-	-	-	133,000	-	133,000
Zebulon Water Line NC 97	-	-	2,176,000	-	-	2,176,000	-	2,176,000
EMJWTP High Service Discharge	-	-	-	-	-	-	359,000	359,000
Hebron Church Rd Transmission	-	-	-	-	-	-	970,000	970,000
Jones Sausage Upgrade I-40	-	-	-	-	-	-	850,000	850,000
Oregon Trail Rd Transmission	-	-	-	-	-	-	1,219,000	1,219,000
Rand Rd Transmission Line	-	-	-	-	-	-	1,029,000	1,029,000
Bethlehem Rd Transmission Main	-	-	-	-	-	-	839,000	839,000
Ten Ten Road Transmission Line	-	-	-	-	-	-	432,000	432,000
Clifford Rd Transmission Main	-	-	-	-	-	-	1,189,000	1,189,000
Subtotal	\$ -	6,905,000	12,876,000	100,000	100,000	19,981,000	7,387,000	27,368,000

Highlighted Project

Oak Forest 30" Water Main \$2,900,000

Installation of approximately 6,700 linear feet of 30" water main from Atlantic Ave. to Capital Blvd. for the purpose of meeting additional water flow demands and balancing water levels between the New Hope and Chamberlain tanks.



Water Pump Stations

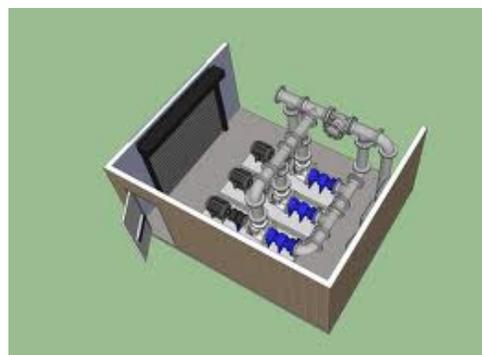
Rehabilitate and upgrade of existing water booster pumping stations. Existing equipment at booster pump stations has reached its service life. Rehabilitation and upgrade of existing pump stations will extend the service life and increase pumping capacity.

Water Pump Stations	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total	FY 2020 to FY	
							2024	10 Year Total
Water Booster Pump Rehab	500,000	400,000	400,000	400,000	400,000	2,100,000	2,000,000	4,100,000
Poole Rd Booster Pump Station	-	2,800,000	-	-	-	2,800,000	-	2,800,000
Mt Herman Pump Station Upgrade	-	280,000	-	-	-	280,000	-	280,000
Bain Pump Station Upgrade	-	70,000	-	-	-	70,000	-	70,000
Pullen Park Booster Pump	-	-	-	2,078,000	-	2,078,000	-	2,078,000
EMJWTP Pump Station Upgrade	-	-	-	-	-	-	690,000	690,000
Subtotal	\$ 500,000	3,550,000	400,000	2,478,000	400,000	7,328,000	2,690,000	10,018,000

Highlighted Project

Water Booster Pump Station Rehab \$4,100,000 (10 year total)

Rehabilitate and upgrade of existing water booster pump stations. Existing equipment at booster pump stations has reached its service life. Rehabilitation and upgrade of existing pump stations will extend the service life and increase pumping capacity.



EM Johnson Water Treatment Plant Expansion

This project group includes Phase 1, 2 and 3 of the 120 MGD EM Johnson Water Treatment Plant (EMJWTP) expansion. The initial phase of the plant expansion will incorporate new high rate filters, an additional flocculation and sedimentation basin with plate settlers, improvements to the raw water transmission lines to the site and to the reservoirs, various chemical improvements, and the installation of miscellaneous electrical/instrumentation/controls.

EMJWTP Expansion	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total	FY 2020 to FY	
							2024	10 Year Total
Clearwell Expansion	-	-	-	-	-	-	21,000,000	21,000,000
Ozone Expansion	-	-	-	-	-	-	24,500,000	24,500,000
Basin Improvements	-	-	-	-	-	-	36,400,000	36,400,000
Basin Addition	-	-	-	-	-	-	38,500,000	38,500,000
UV Solids Handling	-	-	2,100,000	-	-	2,100,000	36,000,000	38,100,000
Subtotal	\$ -	-	2,100,000	-	-	2,100,000	156,400,000	158,500,000

Highlighted Project

EMJWTP Basin Improvements \$36,400,000 (10 year total)

This project involves flocculation and sedimentation basin improvements to the existing basins and the installation of new rapid mix basins.



Little River Projects

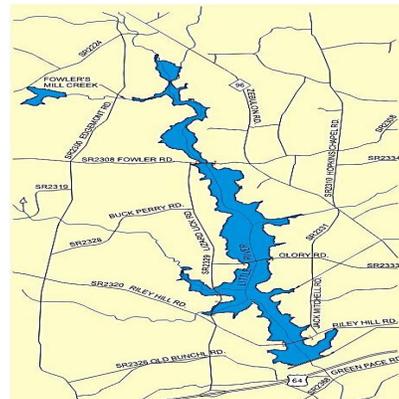
Wake County, in partnership with the City of Raleigh and the utility merger municipalities, has worked for many years to acquire the land necessary to construct the Little River Reservoir in Eastern Wake County. The Little River water shed is the last available water shed in Wake County that is economically feasible to develop as a reservoir. The City of Raleigh Water Supply plan identifies the Little River Reservoir as the long range source of new drinking water for the Greater Raleigh Utility Service Area. This project grouping funds the wetland mitigation cost and wetland restoration areas.

Little River Projects	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total	FY 2020 to FY	
							2024	10 Year Total
County Acquisition	500,000	500,000	500,000	500,000	500,000	2,500,000	2,500,000	5,000,000
Reimbursement								
Property Acquisition	-	2,500,000	2,500,000	2,500,000	2,500,000	10,000,000	12,500,000	22,500,000
Construction	-	-	-	-	-	-	15,600,000	15,600,000
Mitigation Monitoring	-	-	-	-	-	-	300,000	300,000
Subtotal	\$ 500,000	3,000,000	3,000,000	3,000,000	3,000,000	12,500,000	30,900,000	43,400,000

Highlighted Project

Little River County Acquisition Reimbursement \$5,000,000

Wake County, in partnership with the City of Raleigh and the utility merger communities, has worked for many years to acquire the land necessary for the construction of the Little River Reservoir in Eastern Wake County. Because of jurisdictional issues, Wake County has managed all land acquisition. This project fulfills a contractual obligation to reimburse the County.



Water Tank Upgrades

This project provides for the rehabilitation and maintenance of the Elevated Water Tanks in the water distribution system which includes regularly scheduled washouts and regular maintenance due to the age of some of the tanks.

Water Tank Upgrades	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total	FY 2020 to FY	
							2024	10 Year Total
Springdale Tank Replacement	1,450,000	-	-	-	-	1,450,000	-	1,450,000
Elevated Water Tank Rehab & Maintenance	1,300,000	1,000,000	1,000,000	1,000,000	1,000,000	5,300,000	5,000,000	10,300,000
Ten Ten Road Water Tank	-	-	-	-	-	-	3,000,000	3,000,000
Subtotal	\$ 2,750,000	1,000,000	1,000,000	1,000,000	1,000,000	6,750,000	8,000,000	14,750,000

Highlighted Project

Springdale Tank Replacement \$1,450,000

This project will replace the current Springdale tank, which is a 100,000 gallon pedisphere tank that is nearing the end of its service life. The new tank will be relocated within the 655 pressure zone and will be a 500,000 gallon elevated tank.



EM Johnson Water Treatment Plant Maintenance

These projects will fund the rehabilitation and replacement of major equipment and associated facilities at the EM Johnson Water Treatment Plant that have reached their service life.

EMJWTP Maintenance	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total	FY 2020 to FY	
							2024	10 Year Total
Facility Rehab	500,000	750,000	750,000	750,000	750,000	3,500,000	3,750,000	7,250,000
New Lab Facility	400,000	4,100,000	-	-	-	4,500,000	-	4,500,000
Solids Handling	2,000,000	-	-	-	8,000,000	10,000,000	-	10,000,000
Water Plant Settling Basins	-	1,200,000	-	-	-	1,200,000	-	1,200,000
Bulk Storage Tank	-	-	-	-	250,000	250,000	-	250,000
Raw Water Reservoir	-	-	-	-	-	-	5,000,000	5,000,000
Subtotal	\$ 2,900,000	6,050,000	750,000	750,000	9,000,000	19,450,000	8,750,000	28,200,000

Highlighted Project

EMJ Solids Handling \$2,000,000

Rehabilitation and improvement of the EMJWTP Solids Handling System. Equipment and facilities at the EMJWTP Solids Handling facilities have reached their service life and need replacing and/or refurbishing in order to reliably perform daily system operations.



Miscellaneous Water and Wastewater Projects

This section includes the construction and demolition of miscellaneous infrastructure projects. The rehabilitation of sanitary sewer siphons (or “depressed sewers”) includes cured in place pipe liners, pipe bursting, replacement in place, manhole rehabilitation, and siphon box rehab. Siphons are used as alternatives to aerial creek crossings.

Miscellaneous Water and Wastewater	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total	FY 2020 to FY	
							2024	10 Year Total
Walnut Creek Debris Drying Pads	1,000,000	-	-	-	-	1,000,000	-	1,000,000
Sanitary Sewer Siphon Rehab Utility Field Facility Improvements	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000	2,000,000	7,000,000
System Capacity Analysis	500,000	500,000	500,000	500,000	500,000	2,500,000	2,500,000	5,000,000
Access to Sanitary Sewer Mains	250,000	250,000	250,000	250,000	1,200,000	2,200,000	1,000,000	3,200,000
Water Quality Study	200,000	200,000	200,000	200,000	200,000	1,000,000	1,000,000	2,000,000
Service Area Growth	150,000	100,000	100,000	500,000	100,000	950,000	500,000	1,450,000
Wendell Lake Glad Rd Demo	-	200,000	200,000	200,000	200,000	800,000	1,000,000	1,800,000
Security Improvements	-	165,000	-	-	-	165,000	-	165,000
Subtotal	\$ 3,100,000	2,415,000	2,250,000	7,650,000	3,200,000	18,615,000	8,000,000	26,615,000

Highlighted Project

Sanitary Sewer Siphon Rehab \$7,000,000

Rehabilitation of existing sanitary sewer siphons (or “depressed sewers”). Rehabilitation techniques will include but not be limited to cured in place pipe liners, pipe bursting, replacement, manhole rehabilitation and siphon box rehabilitation. Siphons are installed as an alternative to aerial creek crossings and are usually associated with large diameter sanitary sewer mains.



Capital Equipment

This project group includes the hydrant and nozzle replacement plan (10 and five year respectively) to update Raleigh to National thread hydrant standards and nozzles on all non-lead barrel hydrants standards. The project cost represents materials only; the City staff will perform the installation. This initiative will benefit the Fire Department by reducing response time and minimize operational costs. Equipment funding also included for various equipment needs in the water plants and meter replacements.

Capital Equipment	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total	FY 2020 to FY	
							2024	10 Year Total
Equipment Rehab/Replacement	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	15,000,000	15,000,000	30,000,000
Fire Hydrant Replacement	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000	5,000,000	10,000,000
Fire Hydrant Nozzle Replacement	700,000	700,000	700,000	700,000	700,000	3,500,000	-	3,500,000
Subtotal	\$ 4,700,000	4,700,000	4,700,000	4,700,000	4,700,000	23,500,000	20,000,000	43,500,000

Highlighted Project

Fire Hydrant Replacement \$10,000,000

The hydrant replacement plan represents a 10-year plan to update Raleigh to national standard thread hydrants along with storz connections. The project cost represents materials only; City staff will perform the installation.



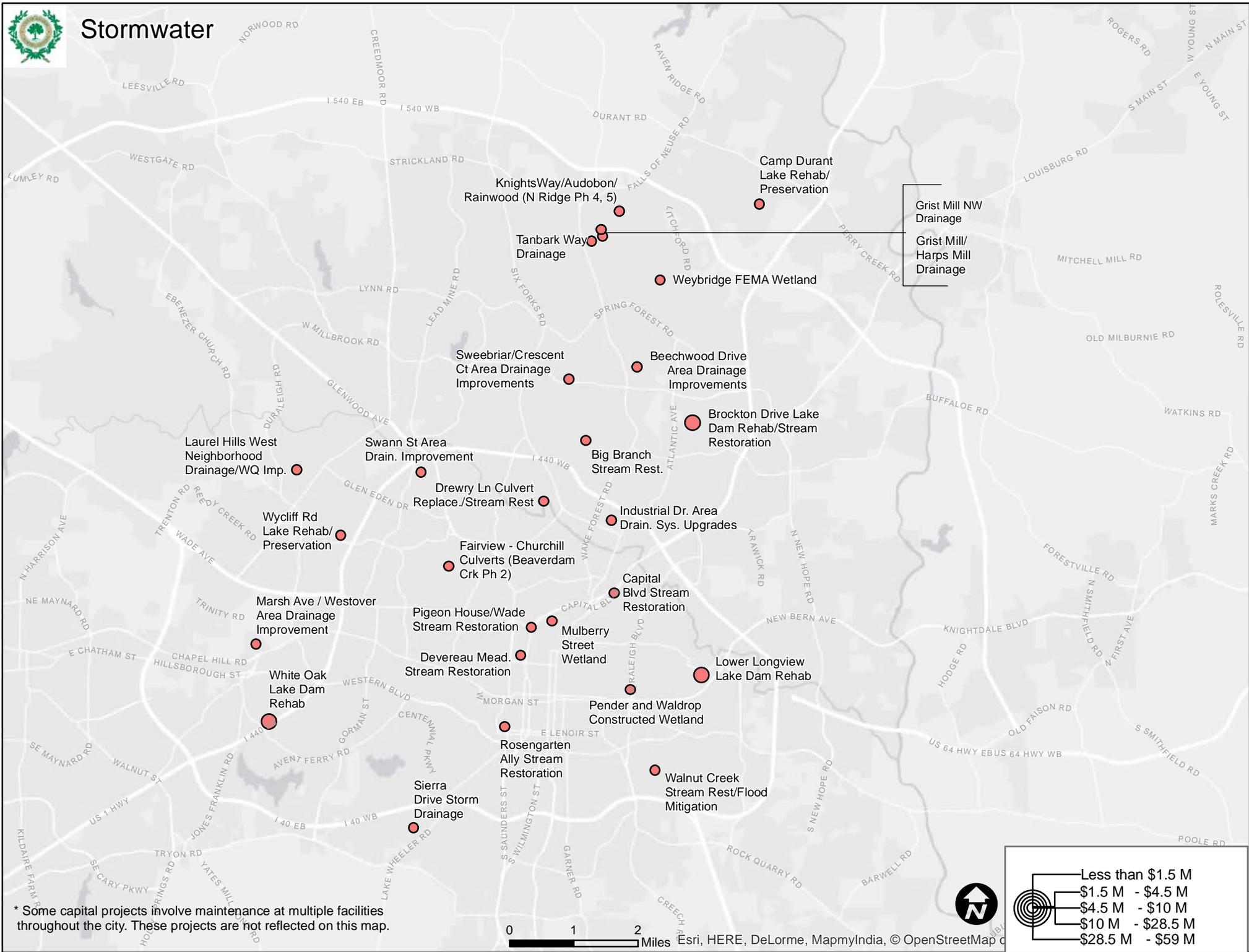
Watershed Initiatives

The Public Utilities Department adopted a Watershed Protection ordinance in September 2011, to become effective November 1st, 2011. This project is solely funded with the watershed protection rate established on 2011, and funds watershed conservation and protection activities. Among other projects, funding is provided to the Conservation Trust of North Carolina to expand the land protection in the Falls Lake and Upper Neuse River watershed.

Watershed Initiatives	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total	FY 2020 to FY 2024	10 Year Total
Watershed Initiatives	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	7,500,000	7,500,000	15,000,000
Subtotal	\$ 1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	7,500,000	7,500,000	15,000,000



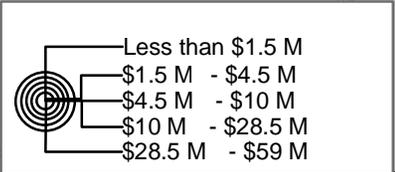
Stormwater



* Some capital projects involve maintenance at multiple facilities throughout the city. These projects are not reflected on this map.

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Stormwater



Funded Projects	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Lake Preservation	1,800,000	2,200,000	-	575,000	1,100,000	5,675,000
Water Quality and Stream Restoration	1,250,000	850,000	1,774,000	2,550,000	1,500,000	7,924,000
General Drainage Infrastructure	950,000	890,000	1,050,000	1,150,000	950,000	4,990,000
Neighborhood and Street Drainage Improvements	1,000,000	2,875,000	3,595,000	1,725,000	2,006,000	11,201,000
Total	\$ 5,000,000	6,815,000	6,419,000	6,000,000	5,556,000	29,790,000

Revenue Sources	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Transfers from Stormwater Operations	5,000,000	6,815,000	6,419,000	6,000,000	5,556,000	29,790,000
Total Revenues	\$ 5,000,000	6,815,000	6,419,000	6,000,000	5,556,000	29,790,000

Element Overview

The Stormwater Management Program focuses on protecting and improving quality of life in Raleigh through progressive stormwater and surface water resource management. In partnership with the community, priority project categories within the Stormwater Capital Improvement Program include lake preservation, water quality improvement, stream restoration, neighborhood drainage improvements, flood mitigation, and street drainage system improvements. The Stormwater CIP for FY2015 through FY2019 totals \$29,790,000.

Recent Accomplishments

- Completed three phases of major neighborhood drainage system improvements within the North Ridge community to reduce flooding hazards.
- Completed major neighborhood drainage system improvements within the Yorkshire Downs community to reduce flooding hazards.
- Completed the first phase of major drainage system improvements along Swift Drive to reduce flooding hazards.
- Completed the first phase of land acquisition for purposes of flood mitigation and conservation along Pigeon House Branch and Capital Boulevard with federal funding assistance.
- Completed the first pilot green street stormwater quality practice for Pullen Road in partnership with NC State University.
- Completed a comprehensive stormwater management master plan for the Walnut Creek Watershed.

Work Plan Highlights

- Supplemental funding of \$1.8 million for the construction of the high priority Lower Longview Dam and restoration of Albemarle Avenue. This project will upgrade the dam and spillway capacity, reducing hazards to property owners and allowing traffic to resume on Albemarle Avenue.
- Continued funding totaling \$550,000 for water quality retrofit projects and the water quality cost share program.
- Continued funding totaling \$750,000 for the significantly growing drainage petitions program. This program includes cost-share projects to reduce structural flooding and stabilize severely eroding stream banks.
- \$1,000,000 in funding for continued neighborhood drainage system improvement projects.

Operating Impacts

- The continued implementation of priority capital stormwater improvement projects will require future maintenance of permanent stormwater easement areas. Workload increases will necessitate additional contractual or personnel resources.
- Near-term contractual maintenance operating impacts resulting from permanent stormwater easements are included within the proposed operating budget.

Horizon Items

- Anticipate continued growth of water quality regulatory requirements and retrofit projects to improve water quality.
- Growing citywide needs for prioritized drainage and stream system improvements on private property that convey public runoff.

Lake Preservation

Lake preservation projects focus on improvements to existing lake facilities in strategic locations within local watersheds that provide significant public stormwater management benefits including flood control and water quality protection.

Lake Preservation	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Lower Longview Lake Dam Rehab	1,800,000	-	-	-	-	1,800,000
Brockton Dr Dam Lake Rehab	-	2,200,000	-	-	-	2,200,000
White Oak Lake Dam Rehab	-	-	-	-	1,000,000	1,000,000
Camp Durant Lake Rehab/ Preservation	-	-	-	575,000	-	575,000
Wycliff Rd Lake Rehab/ Preservation	-	-	-	-	100,000	100,000
Subtotal	\$ 1,800,000	2,200,000	-	575,000	1,100,000	5,675,000

Highlighted Project

Lower Longview Lake Dam: \$1,800,000

The Lower Longview Lake Dam project plans to replace the principal spillway and bridge with a spillway structure in the lake and a cast-in-place concrete culvert. A bottom drain will also be installed to provide a means to drain the lake. This priority project will upgrade the capacity of the dam and spillway to meet the State of North Carolina standards for a small, high-hazard dam and reduce hazards to downstream property owners and structures. It will also allow for traffic to resume on Albemarle Avenue, which has been closed due to structural failure of the aging bridge spillway at the dam. In addition, the project will help protect water quality.



Water Quality and Stream Restoration

Water quality and stream restoration projects are designed to protect and improve surface water quality within priority receiving streams in Raleigh. Project types include cost-share with private property owners for water quality initiatives that protect and improve runoff quality, drainage and stream system retrofit projects, and water quality improvement projects within watersheds subject to Total Maximum Daily Load (TMDL) regulations.

Water Quality and Stream Restoration	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Big Branch Stream Restoration	200,000	-	-	-	-	200,000
Rosengarten Ally Stream Restoration	500,000	-	-	-	-	500,000
Water Quality Cost Share	250,000	250,000	250,000	250,000	250,000	1,250,000
Water Quality Retrofit Projects	100,000	100,000	200,000	200,000	100,000	700,000
TMDL Streams Water Quality Projects	200,000	200,000	400,000	400,000	200,000	1,400,000
Devereau Meadows Stream Restoration	-	150,000	500,000	-	350,000	1,000,000
Pigeon House at Wade Stream Restoration	-	150,000	-	450,000	-	600,000
Pender and Waldrop Constructed Wetland	-	-	100,000	400,000	-	500,000
Capital Blvd Stream Restoration	-	-	324,000	450,000	-	774,000
Walnut Creek Watershed Stream Restoration	-	-	-	-	600,000	600,000
Weybridge FEMA Wetland	-	-	-	150,000	-	150,000
Mulberry St Wetland	-	-	-	250,000	-	250,000
Subtotal	\$ 1,250,000	850,000	1,774,000	2,550,000	1,500,000	7,924,000

Highlighted Project

Rosengarten Ally Stream Restoration: \$500,000

This project includes replacing a highly urbanized stream, choked with non-native invasive vegetation and littered with trash and rubble from years of neglect, with a new, more natural channel. "Daylighting", restoring long buried portions of the stream to their original open channel status, is also part of the project.



General Drainage Infrastructure

This category of projects includes the storm drainage petitions program, emergency drainage repairs, and flood mitigation. Storm drainage petition projects are on private property and help reduce flooding to homes and businesses, repair eroded streams, and replace failing drainage infrastructure.

General Drainage Infrastructure	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Drainage Petition Projects	750,000	750,000	750,000	750,000	750,000	3,750,000
Flood Mitigation	200,000	-	100,000	200,000	-	500,000
Stormwater System Repairs	-	140,000	200,000	200,000	200,000	740,000
Subtotal	\$ 950,000	890,000	1,050,000	1,150,000	950,000	4,990,000

Highlighted Projects

Drainage Petitions Program: \$3,750,000

This category includes cost-share projects such as Beaverwood Drive where a 48-inch diameter corrugated metal pipe is collapsing creating large sinkholes. The 48-inch pipe conveys public runoff. The solution for the Beaverwood Drive project entails replacing the failing infrastructure with an estimated total cost of \$119,300. Other typical drainage petition projects involve reducing structural flooding and stabilizing severely eroding stream banks.



Flood Mitigation Program: \$500,000

This category involves the city’s involvement with the Federal Emergency Management Agency’s (FEMA) grant program for acquisition of repetitive loss properties. City staff has compiled a priority list of properties that experience losses during large flooding events and are applying for grants to acquire these properties. These grants are 75% federal share and 25% city share; money allocated represents the 25% city share.

Before Acquisition



After Acquisition



Neighborhood and Street Drainage Improvements

This category of projects includes major storm drainage system improvements to prevent downstream flooding hazards, to reduce flooding to public roads and buildings, while protecting water quality. These projects are normally associated with drainage systems serving and affecting City streets.

Neighborhood and Street Drainage Improvements

	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Knights Way/Audobon/Rainwood (Phases 4, 5)	700,000	500,000	-	-	-	1,200,000
Industrial Dr Area Drainage Upgrades	300,000	-	-	-	-	300,000
Beechwood Dr Area Drainage	-	750,000	750,000	-	-	1,500,000
Grist Mill/ Harps Mill Drainage (Phase 6)	-	600,000	600,000	-	-	1,200,000
Tanbark Way Drainage (Phase 6)	-	150,000	125,000	-	-	275,000
Laurel Hills West Neighborhood Improvements	-	225,000	300,000	-	-	525,000
Drewry Lane Culvert Improvements	-	650,000	-	-	-	650,000
Marsh Ave/Westover Area Improvements	-	-	120,000	-	616,000	736,000
Sierra Drive Storm Drainage	-	-	950,000	-	-	950,000
Swann St Area Improvements	-	-	500,000	1,000,000	-	1,500,000
Grist Mill Northwest Drainage (Phase 6)	-	-	250,000	250,000	-	500,000
Fairview - Churchill Culverts (Phase 2)	-	-	-	400,000	940,000	1,340,000
Sweetbriar/Crescent Ct Area Improvements	-	-	-	75,000	450,000	525,000
Subtotal	\$ 1,000,000	2,875,000	3,595,000	1,725,000	2,006,000	11,201,000

Highlighted Project

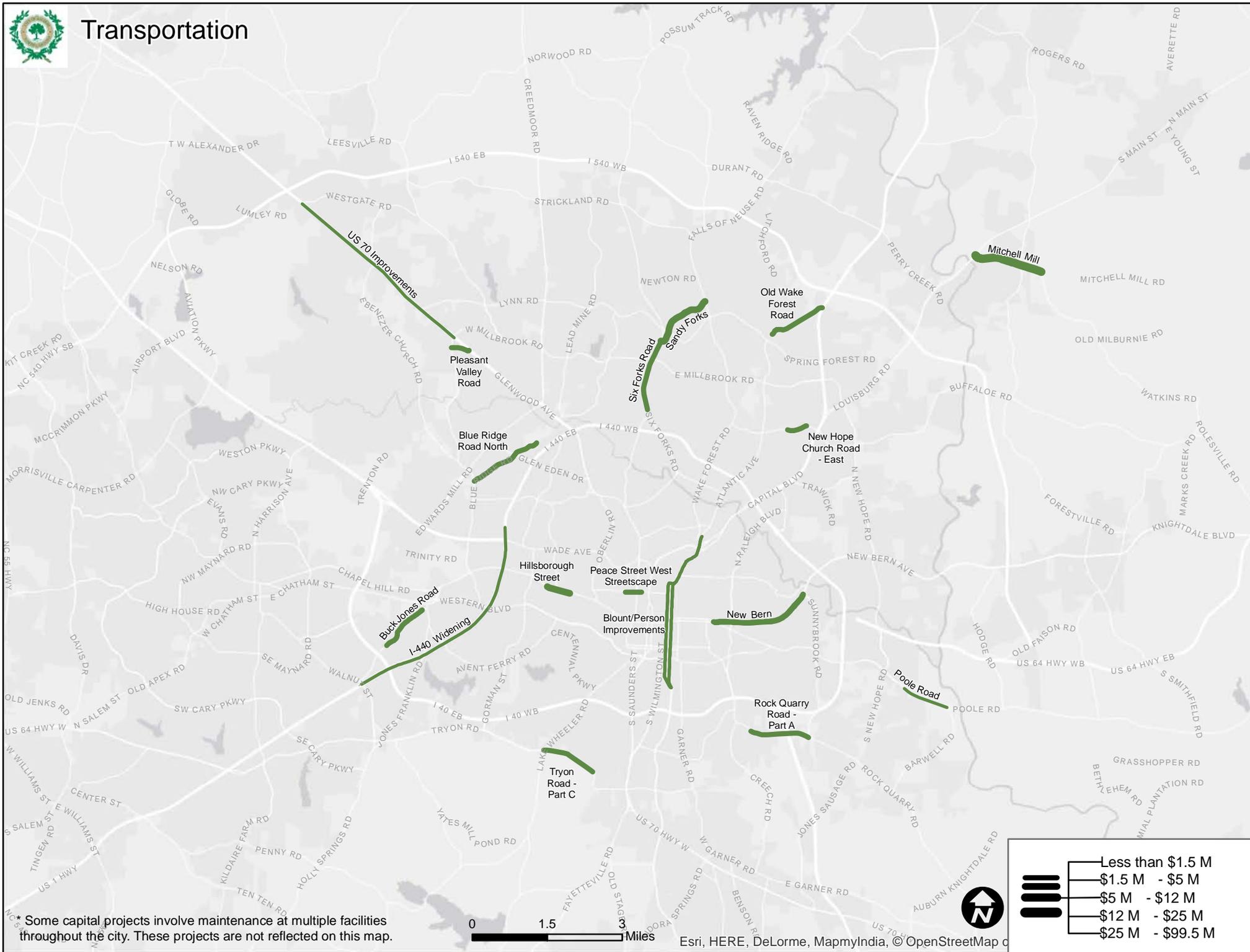
Knights Way / Audobon / Rainwood in North Ridge
Community: \$1,200,000

The goal of the project is to reduce the frequency of street and right of way flooding by providing a 10-year level of service for Knights Way, Audobon Drive, and Rainwood Lane within the North Ridge Community. In addition, the project will reduce significant private property yard and structural flooding.

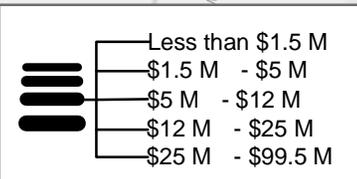
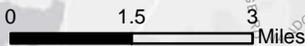




Transportation



* Some capital projects involve maintenance at multiple facilities throughout the city. These projects are not reflected on this map.



Transportation



Funded Projects	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Major Streets Projects	26,200,000	23,546,000	17,396,000	500,000	484,000	68,126,000
Street Improvement Program	20,925,000	10,025,000	9,833,000	10,125,000	10,035,000	60,943,000
Bicycle and Pedestrian Improvements	3,250,000	2,725,000	740,000	670,000	826,000	8,211,000
Studies and Planning Projects	335,000	100,000	500,000	250,000	100,000	1,285,000
Transit	1,930,000	1,730,000	1,730,000	1,730,000	1,730,000	8,850,000
Parking	670,000	630,000	660,000	640,000	640,000	3,240,000
Total Transportation	\$ 53,310,000	38,756,000	30,859,000	13,915,000	13,815,000	150,655,000

Revenue Sources	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
2013 Bond Proceeds	37,548,000	22,165,000	15,287,000	-	-	75,000,000
2011 Bond Proceeds	2,000,000	1,500,000	-	-	-	3,500,000
Transfers from General Fund	10,417,000	10,496,000	10,572,000	10,650,000	10,650,000	52,785,000
Streets Facility Fees	1,500,000	1,900,000	1,800,000	1,100,000	1,000,000	7,300,000
Streets Facility Fees-Fund Balance	-	1,000,000	1,000,000	-	-	2,000,000
Assessments and Fees	775,000	800,000	825,000	850,000	850,000	4,100,000
Transfers from Parking Operating Fund	670,000	630,000	660,000	640,000	640,000	3,240,000
Interest Income	40,000	15,000	215,000	-	-	270,000
Transfer from Economic Development Fund	27,500	-	-	-	-	27,500
Community Service Corp. Matching Funds	82,500	-	-	-	-	82,500
Appropriated Fund Balance	250,000	250,000	500,000	675,000	675,000	2,350,000
Total Revenues	\$ 53,310,000	38,756,000	30,859,000	13,915,000	13,815,000	150,655,000

Element Overview

The transportation capital program includes major street construction, street improvements, pedestrian and bicycle projects, downtown parking improvements, and transit projects. Total proposed funding for the five-year program is \$150.6 million with \$53.3 million planned for FY2015. The CIP programs the \$75 million transportation bond passed by voters in October 2013. The General Fund budget includes a 1.02 cent tax increase to fund the debt service and operating costs for the referendum. The CIP also programs the remaining budget from the 2011 transportation bond. All capital projects are consistent with the adopted goals of the 2030 Comprehensive Plan and incorporate "Complete Streets" principles, integrating bicycle, pedestrian and transit system elements into each project.

The CIP includes matching city funds for several projects planned by the North Carolina Department of Transportation (NCDOT), which include two bridge replacements in 2016 (Wade Avenue and Peace Street bridge replacements on Capital Boulevard) and two highway improvement projects (widening of the I-440 Beltline in southwest Raleigh, and improvements to the US 70 Corridor from Duraleigh Road to I-540).

The CIP also invests \$8.9 million in the city's transit system, including facility maintenance and equipment replacement. This is roughly a 30% increase in planned investments in the transit system, allowing the city to leverage additional federal funds for transit improvements. The bicycle and pedestrian program includes \$8.2 million for sidewalk construction, maintenance, repair, streetlight installations, and bicycle facility improvements. Lastly, the CIP includes \$3.2 million for maintenance and improvements at downtown parking decks.

Recent Accomplishments

The City has completed several major transportation projects including:

- Falls of Neuse Road widening and realignment (Phase II) from Raven Ridge Road to Fonville Road;
- Marvino Lane Extension/Realignment from existing Marvino Lane to Glenwood Avenue;
- Jones Sausage Road widening and realignment from I-40 to Rock Quarry Road;
- Rock Quarry Road widening (Part B) from Sunnybrook Road to New Hope Road;
- Lake Wheeler Road street and sidewalk improvements from Tryon Road to Centennial Parkway;
- Creedmoor Road sidewalk improvements from Glenwood Avenue to Strickland Road;

Work Plan Highlights

- Staff continues to develop the first phase of Raleigh Union Station, which will be located at 510 West Martin Street in a former warehouse. This \$66.25 million project moves passenger rail functions from the existing Amtrak Station on Cabarrus Street to the adaptively reused structure, which will feature three levels of restaurants, shops and offices. The city has funded its \$6 million matching commitment to this project.
- The proposed CIP significantly increases the amount of paygo (or cash) funding for street resurfacing. A proposed 1¢ tax increase in the General Fund would generate roughly \$5.15 million to be transferred to the CIP for additional resurfacing contracts. This brings the total resurfacing budget in FY2015 to \$7.2 million and the five year total to \$37.2 million.
- The CIP accelerates delivery of the City's sidewalk program projects. City Council previously directed staff to engage private consulting firms to design projects within the current program backlog. Funds from both 2011 and 2013 Transportation Bonds have been programmed in the first two years of the CIP to address sidewalk maintenance, petition projects, and a new micro-gap program.
- Streetscape improvements along New Bern Avenue from Tarboro Street to Sunnybrook Road are scheduled to be completed in FY2015. The proposed improvements include the installation of new sidewalks, crosswalks, street trees, street furniture, transit stop improvements, lighting, signage, as well as enhancements to the storm drainage system. New Bern Avenue serves as the primary connection between Downtown Raleigh and WakeMed Hospital and traverses several historic neighborhoods.
- Phase 1 of the Blount-Person Street Corridor Study is fully funded in the CIP. This phase consists of a road diet/restriping of both one-way pairs (Blount Street and Person Street) from Atlantic Avenue to Hoke Street. The Road Diet restriping has been organized into a series of smaller steps that can be implemented separately or together corridor-wide. The intent with this phasing is to target quick actions that will not require a large investment but will have an immediate effect on traffic behavior, improving pedestrian comfort and corridor quality-of-life.
- The CIP funds an update to the 2009 Raleigh Comprehensive Bicycle Plan to assess the City's implementation of bike-related infrastructure and programs over the past five years. The updated plan will also incorporate new design strategies and policy directives to improve Raleigh's current bronze-level status as a Bike Friendly City.
- The CIP includes \$2 million for streetscape improvements in the western portion of Peace Street, from St. Mary's Street to West Street. Improvements include installation of wider sidewalks on both sides, upgraded street furniture, improved street lights, and planting of new trees.

Operating Impacts

- Staff continue to estimate the operating requirements and costs for Union Station. The facility will likely require additional positions and funds to maintain and operate efficiently. These costs will be added to a future operating budget.
- With the additional funding for street resurfacing, one position has been added to administer the additional contracts.

Horizon Items

- In the future, additional funding may be needed for street resurfacing. Staff estimate that roughly \$12 million per year is needed to meet the city's resurfacing and road quality goals. These goals include resurfacing all city roads every 20 years, which requires the city to maintain a pace of roughly 5% of road miles per year. The proposed budget would bring annual funding to roughly \$7.2 million.
- City Council authorized the city's Bicycle and Pedestrian Advisory Commission (BPAC) to explore the feasibility of a bike-share program in Raleigh in its adopted FY2014 work plan. A bicycle-share system would use kiosks located around the city to rent bicycles through individual leases and membership-based subscriptions. The CIP funds the feasibility study in FY2015. Additional funding will be required to implement recommendations stemming from the study.

Major Street Projects

The Major Street Projects category funds road widening and other significant improvements in the city's street network. The primary source of funds for these large-scale projects is bond funding. Raleigh citizens have approved bonds in 2011 and 2013 to fund these projects. In addition, this category also programs matching funds for state projects administered by the North Carolina Department of Transportation (NCDOT).

Major Streets Projects	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Jones/Lane Two-Way Conversion	1,000,000	-	-	-	-	1,000,000
New Bern Avenue Improvements	4,000,000	-	-	-	-	4,000,000
Buck Jones Road Widening	2,700,000	-	-	-	-	2,700,000
Mitchell Mill Road Widening	13,800,000	-	-	-	-	13,800,000
Blount/Person St - Phase I (Restriping)	700,000	-	-	-	-	700,000
Hillsborough Streetscape - Phase 2	1,000,000	7,400,000	-	-	-	8,400,000
Sandy Forks Road Improvements	2,000,000	7,000,000	-	-	-	9,000,000
Pleasant Valley Widening	350,000	1,000,000	2,416,000	-	-	3,766,000
New Hope Road Improvements	150,000	2,500,000	1,000,000	-	-	3,650,000
Yonkers Rd Improvements	500,000	1,000,000	1,000,000	-	-	2,500,000
Tryon Road Part C	-	1,048,000	3,425,000	-	-	4,473,000
Old Wake Forest Road North Widening	-	1,099,000	3,707,000	-	-	4,806,000
Rock Quarry Road Widening - Part A	-	1,499,000	1,492,000	-	-	2,991,000
US 70 Corridor Improvements (U-2823)	-	1,000,000	-	-	-	1,000,000
Blue Ridge Road Widening	-	-	1,375,000	-	-	1,375,000
Six Forks Corridor Improvements	-	-	1,600,000	-	-	1,600,000
Poole Road Widening	-	-	881,000	-	-	881,000
I-440 Widening (U-2719)	-	-	500,000	500,000	-	1,000,000
Public-Private Partnerships	-	-	-	-	484,000	484,000
Subtotal	\$ 26,200,000	23,546,000	17,396,000	500,000	484,000	68,126,000

Highlighted Projects

New Bern Avenue Improvements: \$4,000,000

This project will install curb and gutter, sidewalks, bicycle lanes, streetlights, and drainage infrastructure on both sides of New Bern Avenue from Tarboro Road to Sunnybrook Road. This project implements a portion of the New Bern Avenue Corridor Study, adopted by City Council in January 2012.



Buck Jones Road Widening: \$2,700,000

The widening of Buck Jones Road will begin near Farm Gate Road and extend to Xebec Way. Street improvements will include two roundabouts at Farm Gate Road and at Bashford Road, as well as new center turn lanes. The widened roadway will include marked bicycle lanes, curbs, gutters, culvert replacement near Bashford Road, streetlights, and sidewalks.



Hillsborough Street Phase II: \$8,400,000

The streetscape improvements along Hillsborough Street will begin near Gardner Street and extend to Rosemary Street and Shepherd Street. The improvements include modifying the existing configuration of a multi-lane undivided roadway section to a 2-lane divided roadway with a raised median. The improved street will feature a three-lane curb and gutter section with bike lanes, parallel parking, sidewalks, landscaping, street trees, and streetlights.



Mitchell Mill Road Widening: \$13,800,000

This project will widen Mitchell Mill Road between Louisburg Road and Forestville Road to a four-lane median-divided curb and gutter section with sidewalks, bike lanes, streetlights, landscaping, and street trees. Also included in this project are turn-lane improvements and culvert replacement at the intersection of Mitchell Mill Road and Forestville Road, a new traffic signal at Single Leaf Lane, and new water main connections.



NCDOT Project Participation: \$10,000,000

These reserved funds will provide local matches to current NCDOT projects to install sidewalks, improve bridges, and upgrade noise walls. Two upcoming projects include replacing bridges on Capital Boulevard at the Peace Street and Wade Avenue crossings, and planned improvements along US 70 from Duraleigh Road to I-540.



Pleasant Valley Widening: \$3,766,000

This project will widen and rehabilitate Pleasant Valley Road between Duraleigh Road and Glenwood Avenue. The improved street will feature a three-lane curb and gutter section with bike lanes, sidewalks, landscaping, street trees, and streetlights.



Yonkers Road Improvements: \$2,500,000

This project will repair and improve Yonkers Road from Capital Boulevard to New Bern Avenue to include a two-lane curb and gutter section with bike lanes and streetlights and will include sidewalk along the south side of the street. Traffic in this heavily industrial area has damaged the street and shoulders, requiring extensive reconstruction.



Sandy Forks Road Improvements: \$9,000,000

This project will widen and rehabilitate Sandy Forks Road between Six Forks Road and Falls of Neuse Road. The improved street will feature a three-lane curb and gutter section with bike lanes, sidewalks, landscaping, street trees, and streetlights. This project also include a pilot effort to deploy low-impact stormwater mitigation strategies within and adjacent to the street.



Tryon Road Widening (Part C): \$4,473,000

This project will widen Tryon Road between Lake Wheeler Road and Par Drive. The improved street will feature a four-lane curb and gutter section with a raised median, bike lanes, sidewalks, landscaping, street trees, and streetlights. This segment of Tryon Road is the last remaining two-lane portion of Tryon Road. This project will complete the entire corridor from US 1-64 in Cary to Garner Road.



Old Wake Forest Road North Widening: \$4,806,000

This project will widen Old Wake Forest Road to a four-lane median-divided section with curb and gutter, sidewalks, bicycle lanes, and streetlights from Litchford Road to Capital Boulevard (US 1). This project was partially funded for design and right-of-way as part of the 2013 Transportation Bond referendum and will require additional funding in FY18 to complete construction.



Street Improvement Program

This category addresses ongoing maintenance and other improvements to city streets. The city’s street network is maintained through ongoing street resurfacing, paving petitions, intersection improvements, and neighborhood traffic management projects. This category also includes streetscape improvements and matching funds for NCDOT projects affecting city streets.

Street Improvement Program	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Street Resurfacing	7,180,000	7,490,000	7,273,000	7,640,000	7,650,000	37,233,000
Street Improvements & Paving Petitions	375,000	375,000	500,000	500,000	500,000	2,250,000
NCDOT Project Participation	10,000,000	-	-	-	-	10,000,000
Intersection Improvements	500,000	600,000	600,000	600,000	600,000	2,900,000
Bridge Repair & Maintenance	120,000	120,000	120,000	120,000	120,000	600,000
Traffic Signal Installations	-	165,000	165,000	165,000	165,000	660,000
Neighborhood Traffic Management - Major	-	500,000	500,000	-	-	1,000,000
Neighborhood Traffic Management - Minor	150,000	175,000	175,000	-	-	500,000
Streetscape Program	600,000	600,000	500,000	-	-	1,700,000
Peace St West Streetscape	2,000,000	-	-	-	-	2,000,000
Reserve for Future Projects (Facility Fees)	-	-	-	1,100,000	1,000,000	2,100,000
Subtotal	\$ 20,925,000	10,025,000	9,833,000	10,125,000	10,035,000	60,943,000

Highlighted Projects

Street Resurfacing: \$37,233,000

This project funds ongoing resurfacing and repair of the city’s 2,500 lane miles. The city’s goal is to maintain high quality roads that provide citizens smooth vehicle rides and have minimal cracking. Capital funds will pay for contracted crews to resurface and repair streets throughout the city. To prioritize streets, staff use a scoring system that evaluates the asphalt’s structural integrity, cracking, and ride quality.



Peace Street West Streetscape: \$2,000,000

The Peace Street West streetscape project will upgrade the pedestrian areas between St. Mary’s Street and N. West Street by installing new sidewalks, street trees with grates, signal poles with mastarms, new curbs, consolidated driveways. This project will also move overhead utility lines beneath the ground.



Studies and Planning Projects

This category includes corridor studies, feasibility studies, design, preliminary engineering and resources for wetland mitigation and delineation. Studies provide recommended improvements, policy directives and design strategies. Funding supports initiatives such as corridor documentation, a possible bikesharing program and other special studies as directed.

Studies and Planning Projects	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Bike Plan Update	75,000	-	-	-	-	75,000
Southern Gateway Study	150,000	-	-	-	-	150,000
Cameron Village Study	110,000	-	-	-	-	110,000
Advanced Planning Feasibility Studies	-	50,000	50,000	50,000	50,000	200,000
Wetland Mitigation & Delineation	-	50,000	50,000	50,000	50,000	200,000
Capital Blvd North Corridor Study	-	-	400,000	-	-	400,000
Station Area Planning 2 (North Raleigh)	-	-	-	150,000	-	150,000
Subtotal	\$ 335,000	100,000	500,000	250,000	100,000	1,285,000

Highlighted Project

Cameron Village Study: \$110,000 (Project total of \$310,000)

This project, initially funded in FY14, will address land use, parking, and other issues related to ongoing streetscape improvements and redevelopment. The FY15 appropriation funds expanding the scope to include Hillsborough Street. The study will assess the overall character and potential of the area within a comprehensive framework and produce a report with prioritized recommendations and guidance on future land-use and zoning classifications consistent with the overall goals of the 2030 Comprehensive Plan. The Hillsborough Street Community Service Corporation will provide support for the study up to \$82,500.



Other Transportation Categories

Bicycle and Pedestrian Improvements	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Sidewalk Improvements	1,750,000	1,900,000	-	-	-	3,650,000
Sidewalk Petition Projects	1,000,000	-	-	-	-	1,000,000
Micro-Gap Sidewalk Projects	100,000	100,000	-	-	-	200,000
ADA Curb Ramps	200,000	200,000	200,000	105,000	236,000	941,000
Thoroughfare Streetlight Installation	-	300,000	300,000	300,000	300,000	1,200,000
Pedestrian Intersection Safety Improvements	-	150,000	150,000	150,000	150,000	600,000
Bicycle Facilities and Lane Improvements	50,000	75,000	90,000	115,000	140,000	470,000
Gorman St Cycle Tracks	150,000	-	-	-	-	150,000
Subtotal	\$ 3,250,000	2,725,000	740,000	670,000	826,000	8,211,000

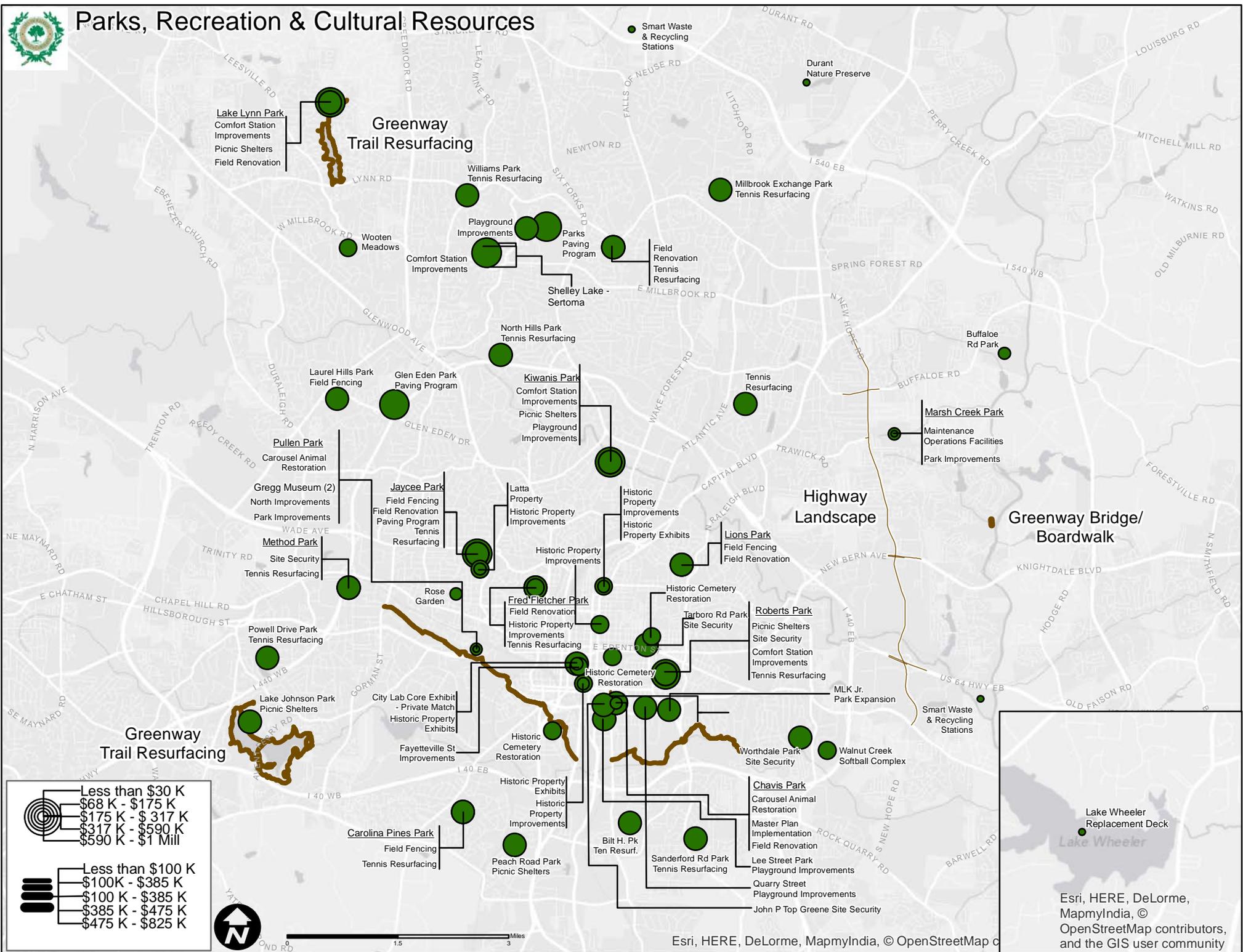
Transit	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Corridor Improvements (Shelters/Benches)	140,000	140,000	140,000	140,000	140,000	700,000
Equipment and Facility Maintenance	200,000	200,000	200,000	200,000	200,000	1,000,000
Bus and Van Replacements	650,000	450,000	450,000	450,000	450,000	2,450,000
Preventive Maintenance	940,000	940,000	940,000	940,000	940,000	4,700,000
Subtotal	\$ 1,930,000	1,730,000	1,730,000	1,730,000	1,730,000	8,850,000

Parking	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Parking Deck Improvements	650,000	600,000	600,000	600,000	600,000	3,050,000
Parking Deck Assessment & Repairs	20,000	30,000	60,000	40,000	40,000	190,000
Subtotal	\$ 670,000	630,000	660,000	640,000	640,000	3,240,000





Parks, Recreation & Cultural Resources



Parks, Recreation and Cultural Resources



Parks, Recreation and Cultural

Resources Projects	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Land Acquisition	100,000	75,000	100,000	125,000	100,000	500,000
Greenway System	550,000	300,000	300,000	300,000	300,000	1,750,000
Cultural Resources	100,000	335,000	175,000	335,000	300,000	1,245,000
Facility Improvements	1,565,000	1,985,000	2,415,000	2,655,000	2,610,000	11,230,000
Plans, Studies & Development	1,500,000	542,000	655,000	725,000	775,000	4,197,000
Site Improvements	1,035,000	1,813,000	1,305,000	1,155,000	1,210,000	6,518,000
Total Parks, Recreation and Cultural Resources Capital	\$ 4,850,000	5,050,000	4,950,000	5,295,000	5,295,000	25,440,000

Revenue Sources	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Transfers from General Fund	3,500,000	3,800,000	3,800,000	4,245,000	4,245,000	19,590,000
Tree Conservation Area Fee	50,000	50,000	50,000	50,000	50,000	250,000
Parks Facility Fees	1,150,000	1,050,000	950,000	850,000	850,000	4,850,000
Transfers from Revolving Fund	100,000	100,000	100,000	100,000	100,000	500,000
Interest Income	50,000	50,000	50,000	50,000	50,000	250,000
Total Revenue Sources	\$ 4,850,000	5,050,000	4,950,000	5,295,000	5,295,000	25,440,000

Element Overview

The "Parks, Recreation and Greenway" element of the *City of Raleigh's Comprehensive Plan* along with other elements of the Plan, such as "Environmental Protection," "Land Use," "Community Facilities and Services," as well as the *Parks, Recreation and Cultural Resources System Plan* are the primary guiding documents for park development, level of service and land acquisition. Existing feasibility studies, reports and strategic plans also guide staff on the timing and location of capital investments required to sustain a maturing parks, recreation and cultural resources system. This capital element consists of six project categories: cultural resources; facility improvements; greenway; land acquisition; plans, studies and development; and site improvements. Major funding sources for the program include general fund transfers, facility fees, and bond proceeds. Projects in the five-year program represent the highest priority needs within the parks, recreation and cultural resources system.

Recent Accomplishments

- Peach Road playground renovation was completed with a grant from KaBOOM! sponsored by Humana that involved a number of volunteers from the community.
- Construction on the O'Rorke-Catholic Cemetery fence replacement and site rehabilitation has been completed.
- The Walnut Creek East Trail that connects the existing Walnut Creek Trail to the Neuse River trail has been completed.

- Construction has begun on the Crabtree Creek Trail east extension, which connects with the existing trail at Milburnie Road, extending along Crabtree Creek, and ultimately joining the Neuse River Trail at Anderson Point Park. The completed Crabtree Creek Trail will extend across the city, connecting several important areas and facilities: North Raleigh, Shelley Lake, Sertoma Park, Lassiter Mill, Kiwanis Park, and Anderson Point Park.
- Construction has begun on the Honeycutt Trail, which connects the existing Mine Creek Greenway Corridor to the South Shore Trail on Falls Lake.
- The WRAL soccer field upgrade to synthetic turf has been completed.
- Construction has begun on the second phase development of the Dr. Annie Louise Wilkerson Nature Preserve Park, the Halifax Center, and the Mordecai Interpretive Center.
- The Northeast Outreach Center, which contains space for Community Oriented Government (COG) programs opened in 2014.
- The Raleigh Art's Plan, intended to identify and articulate the character and strengths of the City's arts culture, kicked off in May 2014.
- On May 6, 2014 the Raleigh City Council voted unanimously to approve the Parks, Recreation and Cultural Resources System Plan. The council's action culminates a 16-month comprehensive process that included multiple public input sessions. The System Plan shapes the direction, development and delivery of the City's parks and greenways, recreation services and cultural resources over the next 20 years.

Work Plan Highlights

- The Urban Forestry Plan has been added to address the comprehensive plan action item related to Urban Forestry Standards.
- The Tree Planting project leverages Tree Conservation Area fee-in-lieu revenue to acquire land for tree preservation and plant trees.
- The department will continue to implement ADA upgrades as documented in the 2012 ADA Assessment Study of the Parks and Recreation Facilities. To maximize efficiency and minimize interruption to user activities, ADA upgrades will be paired with building improvements and community facility upgrades when possible.
- Fall protection has been added to address new OSHA standards for employee safety. This project involves retrofitting existing park facility roofs.
- Gregg Museum is a partnership project with N.C. State University that is documented in the City's Comprehensive Plan. N.C. State University has engaged the Department in a project to relocate the Gregg Museum of Art and Design from Talley Student Center to the former Chancellor's Residence site on Hillsborough Street. The project is envisioned as contributing to the creation of an Arts Complex comprising the museum, the Pullen Arts Center and the Theater in the Park and includes improvements to the Pullen Arts Center parking area and park drive.
- The FY 2015 increase in greenway bridge/boardwalk funding will address the bridge that spans Bridgers Pond on the Neuse River Trail. Multiple complaints have been received from the public concerning the surface condition of this structure. The deck must be evaluated to remedy this situation. Process - 1) Engineering evaluation; 2) Develop alternatives with cost estimates; 3) Prepare construction documents; 4) Bid and award contract.
- Field renovations combined two projects from previous years, P&R field upgrades and multipurpose field renovation, to improve efficiency in project administration.

Operating Impacts

- The CIP focuses on repair, replacement and upgrade of existing facilities and therefore will have negligible operating impacts.
- Operating impacts related to potential bond projects are forthcoming.

Horizon Items

- The Parks, Recreation and Cultural Resources Department staff has prepared preliminary documentation and plans for a 2014 bond referendum, to be held if authorized by City Council. Unlike recent bonds that focused on growth and new facilities, the next bond is needed to address facility and park reinvestments and improvements. However, the bond program also proposes modest funding for land acquisition, greenway development and selected new development projects to meet the city's continuing growth.
- The department is nearing completion of a new system plan that will identify the land, facility and programming needs for the next twenty years. In addition to the information from the system plan, staff is utilizing existing site and facility assessments that reference the back log of deferred maintenance as a result of the economic downturn in recent years.
- As Raleigh's expansive park system continues to mature, additional funds may be requested to perform essential capital maintenance.
- The FY 2015 program and draft bond referendum focus on improving existing infrastructure, facilities and site amenities throughout the entire system. Projects recommended in the bond program will concentrate on the most immediate improvement and renovation needs of the system and do not address all identified needs.

Land Acquisition

City staff identify and purchase land for future parks and greenways as directed by the Comprehensive Plan and the departmental system plan. Areas in need of parks are identified by combining goals and recommended service areas with geographic information system (GIS) data on the size and locations of existing parks. Properties in these areas are then analyzed to determine their suitability as park sites. The city’s acquisition of greenways is guided by the Capital Area Greenway System corridors. The widths of the greenway corridors vary based on the stream hierarchy and the 100 year floodplain. The city requires dedication of land for greenways from residential developments that fall along these corridors or other planned greenway connectors; developers of non-residential properties may also be required to reserve a portion of their property for greenways.

Land Acquisition	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Greenway Acquisition	50,000	50,000	100,000	100,000	100,000	400,000
Park Site Acquisition	50,000	25,000	-	25,000	-	100,000
Subtotal	\$ 100,000	75,000	100,000	125,000	100,000	500,000

Highlighted Projects

Greenway Acquisition: \$400,000

This project funds annual greenway acquisition. This is an ongoing program to acquire greenway land including missing greenway segments and reimbursements for dedicated greenway easements that become available during development site plan approval procedures.



Park Acquisition: \$100,000

This project funds annual park site acquisition. This is an ongoing program to acquire park land in areas that are deficient in parks and open space as identified and prioritized in the Comprehensive Plan and the departmental system plan.



Greenway

The Capital Area Greenway System is a network of public open spaces and recreational trails, providing for activities such as walking, jogging, hiking, bird watching, nature study, fishing and picnicking. In addition to recreation, ecological features can be viewed in their natural state along the greenway. The goal is to establish a completed network of interconnected trails throughout the city. The greenway category includes greenway development, trail repaving, structural repair and other major projects. The Capital Area Greenway master plan has been adopted by City Council and continued funding is necessary to ensure completion, repair and maintenance of the existing facilities and enhancement of older facilities. The greenway system consists of over 4,000 acres of land and over 100 miles of trails throughout the city with an estimated current value of \$150,000,000.

Greenway System	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Greenway Bridge/Boardwalk	400,000	100,000	100,000	100,000	100,000	800,000
Greenway Trail Resurfacing	75,000	100,000	100,000	100,000	100,000	475,000
Structure Repair and Replacement	75,000	100,000	100,000	100,000	100,000	475,000
Subtotal	\$ 550,000	300,000	300,000	300,000	300,000	1,750,000

Highlighted Projects

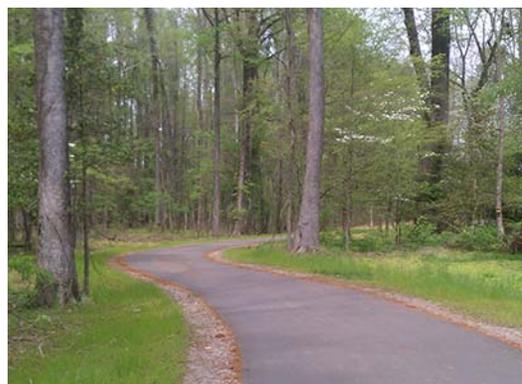
Greenway Bridge/Boardwalk: \$800,000

This project funds major repairs to and replacement of infrastructure. Bridges and boardwalks play a critical role in preserving connectivity of the trail system and to parks and adjacent neighborhoods. The structures proposed to be repaired or replaced over the next five years included Neuse River (Structure 98), Lower Walnut Creek (Structure 90), Little Rock (Structure 88), Shelley (Structure 17), Shelley (Structure 18), and Shelley (Structure 19).



Greenway Trail Resurfacing: \$475,000

This project funds resurfacing and repair of aging trail surfaces and structures to maintain a safe, smooth travel surface. Life expectancy of trail surfaces is approximately 10 to 15 years. The City has over 100 miles of greenway trails with older trails being nearly 30 years old. Trail sections that have met or exceeded their life cycle are identified and prioritized by staff assessment. Asphalt trails proposed to be repaired or replaced over the next five years include the Lake Johnson Trail, Lake Lynn Trail, Rocky Branch, Lower Walnut Creek, and Wakefield.



Cultural Resources

PRCR actively manages and cares for many of Raleigh's cultural assets, including the historic carousels at Pullen and Chavis Memorial parks, Mordecai Historic Park, Pope House Museum, City of Raleigh Museum, Latta House and University site, Borden Building and Tucker House, City, Mt. Hope and O'Rorke-Catholic historic cemeteries and the City of Raleigh municipal art collection. These assets require dedicated, consistent and specialized upkeep specific to their unique historic or artistic context. Concurrent with the conservation mission for cultural resources, PRCR strives to extend the historic significance of these assets to citizens through the development and fabrication of exhibits.

Cultural Resources	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Carousel Animal Restoration	25,000	25,000	25,000	25,000	25,000	125,000
Historic Cemetery Restoration	25,000	25,000	100,000	25,000	25,000	200,000
Historic Property Exhibits	25,000	35,000	25,000	35,000	25,000	145,000
Historic Property Improvements	25,000	125,000	25,000	25,000	25,000	225,000
City Lab Core Exhibit	-	100,000	-	200,000	200,000	500,000
Public Art Conservation	-	25,000	-	25,000	-	50,000
Subtotal	\$ 100,000	335,000	175,000	335,000	300,000	1,245,000

Highlighted Projects

City Lab Core Exhibit: \$500,000

This project funds the proposed "City Lab: Your Space in this Place" core exhibit that explores present Raleigh and highlights various historic aspects of daily life in Raleigh and explores these issues from today's perspective and prompts visitors to consider these issues as the city develops. The transition from private to public management of the museum included a plan to produce a "core" exhibit. The project is budgeted at \$1 million and will consist of a 50/50 public-private match with half of the money coming from the city and half coming from the private COR Friends organization.



Historic Cemetery Restoration: \$200,000

This project funds repairs to and replacement of infrastructure at the three City Cemeteries. Improvements include headstones, markers, plot fencing, perimeter fencing, mausoleums, iron gates, provision of park furnishings and other amenities (benches, trash cans and signage). The project also funds consulting services for re-grading and fence replacement at O'Rorke Cemetery, a landscape plan at all three cemeteries, and preparation of a maintenance manual. Cemetery improvements include repairs that currently pose a safety threat to the visiting public and maintenance staff.



Facility Improvements

PRCR facility improvements category includes projects that upgrade or replace infrastructure and facilities, extending the useful life. Continued investments in infrastructure and facilities are critical to support and enhance neighborhoods, stimulate the economy and improve services. Many of these improvements focus on, but are not limited to, the following areas: code compliance, site, structural repair, systems replacement, control upgrades and new facilities. PRCR serves both internal and external customers by managing and addressing city systems and assets, through analysis, audits, lifecycle cost replacements, engineering and system evaluations.

Facility Improvements	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Park Lighting	350,000	300,000	600,000	525,000	525,000	2,300,000
Aquatic Improvements	250,000	200,000	300,000	300,000	300,000	1,350,000
Parks Roof Repairs	165,000	50,000	180,000	180,000	180,000	755,000
Backflow Prevention Upgrade	25,000	25,000	30,000	30,000	35,000	145,000
Building Improvements	360,000	500,000	500,000	520,000	520,000	2,400,000
Community Facility Upgrades	300,000	425,000	305,000	500,000	500,000	2,030,000
Fall Protection	115,000	150,000	150,000	150,000	150,000	715,000
Lead Paint Abatement	-	50,000	50,000	50,000	50,000	200,000
Electrical Systems-Fields and Courts	-	135,000	175,000	125,000	175,000	610,000
Parks Irrigation Projects	-	25,000	50,000	125,000	150,000	350,000
Raleigh Little Theatre	-	25,000	25,000	25,000	-	75,000
Theater In The Park	-	100,000	50,000	100,000	25,000	275,000
Reused Water Line Extension	-	-	-	25,000	-	25,000
Subtotal	\$ 1,565,000	1,985,000	2,415,000	2,655,000	2,610,000	11,230,000

Highlighted Projects

Building Improvements: \$2,400,000

This project funds interior lighting upgrades, boilers, gas packs, water fountains and HVAC replacement. System efficiencies are analyzed and the operational impacts are assessed and compared to new equipment technology and efficiency standards. As facility systems age, it becomes advantageous and necessary to replace and upgrade systems to ensure proper operation and continued services. Code compliance and governmental regulations also drive interior lighting upgrades and system replacements particularly concerning proper air flow through buildings.



Community Facility Upgrades: \$2,030,000

This project funds interior and exterior painting, gym floor repairs, partitions, countertops, maintaining, repairing, replacing and upgrading center lighting, interiors, and façades of the aging city facilities. Programming requirements and the American Disabilities Act direct specific replacements and upgrades to ensure park facilities are safe, code compliant and suitable for programmed activities.



Park Lighting: \$2,300,000

This project funds upgrade and replacement of the lighting system at ball fields, tennis courts, and parking lots. A recent assessment revealed that many of the existing sports and tennis lighting systems are in poor condition and in need of replacement. Many existing systems do not conform to contemporary lighting standards. This project emphasizes security lighting as well as energy conservation. As lighting systems age it becomes advantageous and necessary to replace and upgrade systems to ensure proper operation and continued services as well as use technology advances to reduce energy consumption while maintaining an appropriate lighting level.



Plans, Studies and Development

The PRCR System Plan guides all park acquisition, development and improvements. Development of a particular site is based on a park master plan study. Specific strategic studies are also called for by the system plan and the Comprehensive Plan. This category includes new and replacement park amenities as well as initial implementation of specific projects based on recently adopted Master Plans. These plans are critical to maintain public participation and meet citizen expectations. Implementation of the System Plan will include specific recommendations for park land acquisition, strategic studies, and an update to the Plan in five years. Master Plans for undeveloped park land incorporate recommendations from the System Plan and public input. Staff expects to complete one additional study per year, with site selection to be determined by potential partnerships and recommended major development by future park bonds.

Plans, Studies & Development	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Martin Luther King, Jr Gardens						
Expansion	550,000	-	-	-	-	550,000
Pullen Park - Gregg Museum	300,000	-	-	-	-	300,000
Chavis Master Plan						
Implementation	250,000	250,000	-	-	-	500,000
Master Plans and Studies	100,000	125,000	125,000	125,000	125,000	600,000
Picnic Shelters	25,000	25,000	155,000	150,000	150,000	505,000
Comfort Station Improvements	250,000		175,000	175,000	400,000	1,000,000
Urban Forestry Plan	25,000	-	-	-	-	25,000
Wooten Meadow	-	117,000	100,000	100,000	-	317,000
Pullen Park Improvements	-	25,000	-	25,000	-	50,000
Latta Property	-	-	100,000	-	-	100,000
PRCR System Plan	-	-	-	150,000	100,000	250,000
Subtotal	\$ 1,500,000	542,000	655,000	725,000	775,000	4,197,000

Highlighted Projects

Chavis Master Plan Implementation: \$500,000

On May 20, 2014, the City Council approved the revised master plan for John Chavis Memorial Park. This project funds implementing the first phase, including schematic design, design development and construction drawings, bidding, construction administration, and post occupancy evaluation in addition to a National Register of Historic Places application. The revised master plan recommends a new community center, an aquatic facility, an enhanced track and multipurpose field, reuse of the original carousel house, skating spots, art and exhibits, a new playground and play area combining traditional and natural play features, climbing structures, interactive water feature, etc. Cost estimates will be developed for future phases of implementation.



Dr. Martin Luther King, Jr. Memorial Gardens: \$550,000

Dr. Martin Luther King, Jr. Memorial Gardens Master Plan was revised and adopted in 2013, coinciding with the park's expanded acreage. Expansion of the existing memorial park has been in collaboration with Community Advocates for Parks in Southeast Raleigh (CAPSR) and the Martin Luther King Committee. Phase one of the master plan includes an outdoor covered space, restroom facility and additional parking.



Site Improvements

The site improvements category funds major maintenance and improvement projects at the city's numerous parks properties. Outdoor projects include: parking lots, roads, trails, playgrounds, fields, fences, sport courts, trees, landscapes, site furnishings and signage. Over time these components reach the end of their life-cycles and require substantial renovation to remain safe, functional and attractive. There is an ongoing need to repair and replace park facilities and infrastructure as they degrade over time, become outdated, vandalized or unsafe. This category also addresses critical and legally mandated (ADA, building code, OSHA, etc.) changes that we are required to implement. Standardization of park furnishings and signage present an identifiable character to our park facilities. Funds from this category are used to promote the quality of our facilities in neighborhoods and communities.

Site Improvements	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Field Renovations	120,000	100,000	100,000	100,000	100,000	520,000
Park Site Improvements	100,000	100,000	100,000	125,000	100,000	525,000
Parks Paving Program	100,000	150,000	150,000	75,000	200,000	675,000
Field Fencing	100,000	75,000	75,000	75,000	75,000	400,000
ADA Facility Upgrades	100,000	150,000	100,000	100,000	100,000	550,000
Site Security	75,000	75,000	75,000	75,000	75,000	375,000
Durant Nature Preserve	50,000	-	-	-	-	50,000
Marsh Creek Improvements	50,000	-	-	-	-	50,000
Playground Improvements	50,000	145,000	145,000	125,000	100,000	565,000
Safety Compliance	50,000	25,000	50,000	25,000	50,000	200,000
Walnut Creek Softball Complex	50,000	50,000	50,000	50,000	50,000	250,000
Street Tree Replacement	50,000	50,000	50,000	50,000	50,000	250,000
Fayetteville St Improvements	40,000	40,000	50,000	50,000	50,000	230,000
Tennis Resurfacing	40,000	100,000	130,000	100,000	100,000	470,000
Volunteerism and Partnership Project	30,000	30,000	30,000	30,000	30,000	150,000
Pullen Park North Improvements	30,000	300,000	-	-	-	330,000
Buffaloe Rd Park	-	175,000	-	-	-	175,000
Signage-Parks and Greenways	-	75,000	75,000	75,000	75,000	300,000
Smart Waste & Recycling Stations	-	68,000	-	-	-	68,000
Maintenance Operations Facilities	-	50,000	50,000	25,000	-	125,000
Rose Garden	-	30,000	50,000	50,000	-	130,000
Highway Landscape	-	25,000	25,000	25,000	25,000	100,000
Lake Wheeler Replacement Deck	-	-	-	-	30,000	30,000
Subtotal	\$ 1,035,000	1,813,000	1,305,000	1,155,000	1,210,000	6,518,000

Highlighted Projects

ADA Facility Upgrade: \$550,000

Building codes and expectations have changed with regards to the extent of accessibility to park and recreation services. The Americans with Disabilities Act Study, completed in 2012, identified over \$5.7 million in critical repairs and upgrades needed at facilities and sites throughout the Parks, Recreation and Cultural Resources system. Funds will be used to implement changes in buildings and access routes to bring the facilities into compliance.



Field Renovations: \$520,000

This project funds major renovations to outdoor athletic facilities. Renovation consists of grading and site preparation, irrigation system installation and installation of sod or sprigs to establish a quality playing surface. This project also funds the addition of concrete pads and walks for dugouts, scorer's tables and bleachers including the installation of covers for the dugout, scorer table area, the purchase and installation of player benches, scorer's tables, bleachers and scoreboards.



Parks Paving Program: \$675,000

This project funds ongoing repair of paved areas, as well as new paved surfaces. Types of surfaces include paved walking trails in parks, interior roadways, parking lots, basketball court surfaces, sidewalks, etc. The identified locations are sites that have met or exceeded their life cycle. Damage and wear can be attributed to use, adjacent environmental impacts (i.e. tree root intrusion), and other factors. Project priorities are identified by means of visual assessment performed, at least annually, by staff.



Playground Improvements: \$565,000

This project funds playground repairs and replacements of existing playground components to address safety issues and play value. Removal of old wooden structures, correction of entrapments, surfacing materials, and borders is funded to meet Consumer Product Safety Council Guidelines in addition to compliance with ADA and ADA Accessibility Guidelines. There are 69 playground sites in the city requiring routine inspection, repair and maintenance. Six additional playgrounds were added to the system in recent years. Funding is necessary to maintain safety and minimize liability issues.





Housing



Funded Projects	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Loan Servicing	100,000	100,000	100,000	110,000	110,000	520,000
Limited Rehab/Repair	300,000	300,000	300,000	-	-	900,000
Neighborhood Revitalization	200,000	200,000	200,000	-	-	600,000
First Time Home Ownership	1,200,000	1,200,000	1,200,000	-	-	3,600,000
Joint Venture Rental	1,900,000	1,900,000	1,325,000	-	-	5,125,000
Housing Units Purchase	150,000	150,000	150,000	-	-	450,000
Transfer to Debt Service	400,000	400,000	400,000	400,000	400,000	2,000,000
Total	\$ 4,250,000	4,250,000	3,675,000	510,000	510,000	13,195,000

Revenue Sources	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Bond Proceeds	3,750,000	3,750,000	-	-	-	7,500,000
Program Income	100,000	100,000	100,000	110,000	110,000	520,000
Reserve from Prior Years	400,000	400,000	3,575,000	400,000	400,000	5,175,000
Total Revenues	\$ 4,250,000	4,250,000	3,675,000	510,000	510,000	13,195,000

Element Overview

The City began funding an affordable housing program in the 1980s. Since 1990, the main funding source for the housing program has been bonds. Housing programs reduce the cost of development, finance the rehabilitation of housing for citizens of low to moderate incomes, and provide down-payment assistance for first time homebuyers.

Specifically, housing funds are used in the following ways:

- Loans to developers to supplement development of rental housing. These loans take advantage of low-income housing tax credits and add to the city's inventory of rental housing for lower income families.
- Loans to low-income homeowners for limited, emergency repairs.
- Loans to low to moderate-income homeowners whose homes need substantial rehabilitation.
- Second mortgage loans provide a method of reducing the cost of capital, enabling low to moderate income renter's families to become first time homebuyers.
- Housing bond funds support redevelopment in the city. This involves property acquisition, relocation, and demolition of blighted properties to create new sites for affordable housing.

Recent Accomplishments

Bond funds have been invested in the following projects:

- Provided loan to the Salvation Army to renovate an existing facility at 1863 Capital Boulevard and expand services to homeless families.
- Provided loan to College Park Collaborative, LLC for the acquisition of a 245 unit apartment complex known as Washington Terrace.
- Provided second mortgage loans to 34 first-time homebuyers for down payment and closing cost assistance.
- Provided 15 deferred, forgivable loans to homeowners to make home repairs that, if left unattended, could pose a threat to occupants' health or safety.

Work Plan Highlights

- The City is using housing bond funds to assist a local affordable housing developer (DHIC, Inc.) acquire and remake an aging 245-unit apartment community in Southeast Raleigh: Washington Terrace. Washington Terrace is east of St. Augustine's University and north of the City's East College Park Redevelopment Area. DHIC will work with City staff starting in 2014 to plan the future use of this nearly 19-acre site located between downtown and Wake Med. Additional city housing bond funds may be requested by DHIC for site improvements.
- The City has issued a Request for Expression of Interest for the redevelopment of the 2.02 acre site located at 500 E. Davie Street, known as Stones Warehouse. The property will be sold to the developer that submits a proposal that best fits the future land use.

Operating Impacts

- At this time, we do not anticipate that our funded projects will have any financial impacts resulting on city operations.

Horizon Items

Over the next several years, the city will continue to implement the 2011 bond program. Staff expects to add the following housing resources:

- Create roughly 300 new affordable rental units within the city.
- Enable 180 new families to buy their first home.
- Enable 90 homeowners to make needed repairs to their homes.
- Acquire 40 vacant, blighted structures, demolish and replace them with new, affordable housing-transforming neighborhoods adjacent to downtown Raleigh.

As loans are repaid from housing bond investments, the City uses this program income to help lower-wage residents maintain safe and decent living environments. Such investments also support the local job market in the design, real estate, lending, construction, and non-profit sectors.

Housing Projects

Highlighted Projects

Washington Terrace Redevelopment: \$2,100,000

The City is using housing bond funds to assist a local affordable housing developer (DHIC, Inc.) acquire and remake an aging 245-unit apartment community in Southeast Raleigh, Washington Terrace. This community is east of St. Augustine's University and north of the City's East College Park Redevelopment Area. DHIC will work with city staff starting in 2014 to plan the future use of this nearly 19-acre site located between downtown and Wake Med. City housing bond funds may be requested by DHIC after a reuse plan is completed for post-purchase improvements to the site.



Rich Park: \$548,000

The city provided a \$548,000 loan to Raleigh Inter-Church Housing (an organization consisting of Community United Church of Christ, Davie Street Presbyterian Church, First Baptist Church, First Cosmopolitan Baptist Church and the Unitarian Universalist Fellowship of Raleigh Church) for the rehabilitation of a 100 unit development for low-income families located at 555 Method Road. Rich Park Apartments offers 14 single bedroom units, 56 two bedroom units and 30 three bedroom units. All of the apartments target individuals at or below 60% of the area median income.



Salvation Army: \$500,000

The city provided a \$500,000 loan to The Salvation Army to rehabilitate a new facility at 1863 Capital Boulevard to serve homeless families. The facility, known as the Center of Hope, is a 41,000 square foot building, including a shelter with over 90 beds for women and children, a counseling center, classrooms, pantry, dental clinic and other facilities for homeless families and individuals. With a total cost over \$7,000,000, \$500,000 came from the City of Raleigh and \$500,000 from Wake County.





Convention and Performing Arts Complex



Funded Projects	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Raleigh Convention Center	2,446,000	1,152,000	2,709,000	2,709,000	2,906,000	11,922,000
Performing Arts Center	7,819,000	-	-	-	-	7,819,000
Walnut Creek Amphitheater	475,000	475,000	475,000	475,000	475,000	2,375,000
Total Convention and Performing Arts Complex Capital	\$10,740,000	1,627,000	3,184,000	3,184,000	3,381,000	22,116,000

Revenue Sources	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Interlocal Funding	2,446,000	1,152,000	2,709,000	2,709,000	2,906,000	11,922,000
Future Bond Proceeds	7,819,000	-	-	-	-	7,819,000
Amphitheatre Rent	-	300,000	300,000	300,000	300,000	1,200,000
Reserve From Prior Years	475,000	175,000	175,000	175,000	175,000	1,175,000
Total Revenue Sources	\$10,740,000	1,627,000	3,184,000	3,184,000	3,381,000	22,116,000

Element Overview

The five-year capital improvement plan includes \$22 million, including \$10.7 million in FY 2015, to maintain four city facilities: the Raleigh Convention Center (RCC), Performing Arts Center (PAC), downtown amphitheater, and Walnut Creek Amphitheater. These improvements are funded through interlocal partnerships, lease revenues, transfers from enterprise funds, and debt financing.

The 500,000 square foot Convention Center opened in 2008 and hosts approximately 400,000 attendees annually. The Center has extensive meeting space, exhibit halls, and catering service. It is nationally recognized as a premier facility for conferences and events. The center's design and LEED designation makes it a key component to the city's downtown economy. In Spring 2012, the City of Raleigh and Wake County negotiated the use of local hotel and restaurant sales tax revenues for RCC capital needs. This agreement establishes a long-term funding source to maintain this important facility, including \$12 million from FY 2015 to FY 2019.

The Performing Arts Center, located downtown, provides rehearsal and performance facilities for the North Carolina Symphony, North Carolina Theatre, Carolina Ballet, Pinecone, North Carolina Opera, and other groups. The Raleigh Memorial Auditorium was originally constructed in 1932 and most recently renovated in 1990. Additional performance spaces were opened in 2001. The CIP includes \$7.8 million in debt-financing to replace building systems and complete other maintenance. Combined with the \$10.7 million appropriated for this facility in FY 2013 and 2014, the total commitment to the Performing Arts Center is \$18.5 million.

The downtown amphitheater opened in 2010. This 5,990 person capacity venue hosts concerts, festivals, and other events. The amphitheater was recently recognized as "2011 Concert Industry Award for Best New Major Concert Venue" by *Pollstar* a leading worldwide trade magazine.

The Walnut Creek amphitheater, located on Rock Quarry Road, holds over 20,000 attendees. Live Nation leases and operates the facility, producing 21 shows in 2013.

Recent Accomplishments

- Completed design phase for the heating, ventilation and air conditioning system (HVAC) replacement in the PAC. The entire design and construction budget for the project is \$10.5 million.
- As a part of the HVAC project, new cooling towers have been installed at a cost of \$819,000.
- Completed the installation of new skylights in the lobby of Raleigh Memorial Auditorium. The project cost \$120,000.
- In design phase for the interior upgrades of the PAC expected to include new lobby furniture, carpet, wall treatments, drapery, ceiling tiles, paint, lighting, and digital signage.
- Installation of a new backup dishwasher at the Convention Center was completed at a cost of \$238,000.
- All freezers and coolers for the kitchen as well as the computer and telephone networks in the Convention Center were connected to an emergency backup generator.
- Continuation of lighting replacement program with LED bulbs as well as upgrading to new LED fixtures and sensors at a cost of \$136,000.

Work Plan Highlights

- The HVAC replacement project is underway at the PAC. This project includes replacement of two chillers, two boilers and accompanying pumps in a new central energy plant building located behind the Fletcher Theater. The city will also install direct digital controls (DDC), and replacement of and/or addition of new air handlers as needed throughout the facility. This project is anticipated to be completed by December 2014.
- PAC interior finish improvements will include replacement of carpet, wall treatments, drapery, ceiling tiles, painting, new lobby furniture, lighting upgrades, and digital signage. The interior upgrades will be coordinated with the HVAC project and are expected to be completed in the fall of 2014.
- Convention Center projects include carpet replacement and the ongoing interior painting being performed by RCC staff.

Operating Impacts

- HVAC replacement at the PAC should produce significant savings in energy cost as well as a reduction in the cost of maintenance as some of the equipment being replaced dates from the 1950s.

Horizon Items

- Future PAC renovations include the potential expansion of the lobby space.
- The city will consider long term plans to expand RCC across McDowell Street into the downtown amphitheater space.

Convention and Performing Arts Complex Projects

These projects include safety and security enhancements, exterior site improvements, building system repair and maintenance, technology upgrades, interior finishes and general facility maintenance. Specific examples include carpet replacement, roof repairs, painting and pavement work.

Convention and Performing Arts Complex

Complex	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
Raleigh Convention Center						
Life Safety and Security	885,000	-	-	-	-	885,000
Site Improvements	173,000	-	37,000	30,000	30,000	270,000
Building Systems	87,000	-	534,000	472,000	584,000	1,677,000
Technology	-	854,000	-	-	-	854,000
Interior Finishes	1,257,000	6,000	2,138,000	2,207,000	2,292,000	7,900,000
Building Envelope	44,000	292,000	-	-	-	336,000
Performing Arts Center						
Life Safety and Security	299,000	-	-	-	-	299,000
Building Systems	5,177,000	-	-	-	-	5,177,000
Interior Finishes	2,343,000	-	-	-	-	2,343,000
Walnut Creek Amphitheater						
Restroom Facilities	475,000	-	-	-	-	475,000
Amphitheater Improvements	-	475,000	475,000	475,000	475,000	1,900,000
Total	\$ 10,740,000	1,627,000	3,184,000	3,184,000	3,381,000	22,116,000

Highlighted Projects

PAC Building Systems: \$5,177,000

The HVAC replacement project replaces chillers, boilers and accompanying pumps as well as direct digital controls in the facility. This project is currently ongoing and is expected to be completed by December 2014.



Walnut Creek Restroom Facilities: \$475,000

This project funds the construction of three additional restroom facilities at Walnut Creek Amphitheater. Two of the facilities are for all facility patrons, and one will be located within the VIP club.





Technology



Technology Projects	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
ERP Debt Transfer	3,186,987	3,134,187	3,081,387	3,027,864	-	12,430,425
Land Management System	249,000	830,382	-	-	-	1,079,382
Peoplesoft Maintenance Upgrade	2,000,000	-	-	-	-	2,000,000
Mobile Device Management	350,000	-	-	-	-	350,000
CCB Upgrade	-	650,000	-	-	-	650,000
Planning and Evaluation Studies	50,000	50,000	50,000	50,000	50,000	250,000
Small Projects Fund	75,000	75,000	75,000	75,000	75,000	375,000
Reserve for Future Projects	714,013	1,377,431	2,792,613	2,811,136	3,875,000	11,570,193
Total	\$ 6,625,000	6,117,000	5,999,000	5,964,000	4,000,000	28,705,000

Revenue Sources	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	5 Year Total
<u>Transfers in for ERP Debt:</u>						
Transfer from General Fund	1,119,615	1,101,066	1,082,517	1,063,714	-	4,366,912
Transfer from Public Utilities	1,582,467	1,556,065	1,530,161	1,503,305	-	6,171,998
Transfer from Vehicle Fleet Services	41,925	41,230	40,535	39,831	-	163,521
Transfer from Solid Waste	171,430	168,590	165,750	162,871	-	668,641
Transfer from Transit	9,131	8,980	8,829	8,675	-	35,615
Transfer from Parking Operations	14,369	14,131	13,893	13,652	-	56,045
Transfer from Stormwater Utility	145,614	143,202	140,789	138,344	-	567,949
Transfer from RCC Operating	78,634	77,331	76,029	74,708	-	306,702
Transfer from Community Development	23,802	23,408	23,014	22,614	-	92,838
Subtotal	3,186,987	3,134,003	3,081,517	3,027,714	-	12,430,221
<u>Transfers in for Selected Projects:</u>						
Transfer from General Fund	2,880,385	2,898,934	2,917,483	2,936,286	4,000,000	15,633,088
Transfer from Public Utilities	301,939	56,384	-	-	-	358,323
Transfer from Vehicle Fleet Services	33,924	-	-	-	-	33,924
Transfer from Solid Waste	121,121	12,302	-	-	-	133,423
Transfer from Transit	4,175	-	-	-	-	4,175
Transfer from Parking Operations	-	-	-	-	-	-
Transfer from Stormwater Utility	29,141	15,377	-	-	-	44,518
Transfer from RCC Operating	54,801	-	-	-	-	54,801
Transfer from Community Development	12,527	-	-	-	-	12,527
Subtotal	3,438,013	2,982,997	2,917,483	2,936,286	4,000,000	16,274,779
Total Revenues	\$ 6,625,000	6,117,000	5,999,000	5,964,000	4,000,000	28,705,000

Element Overview

The Technology element funds the city's major technological infrastructure and business system projects. The proposed five-year CIP maintains existing systems and invests in new systems to improve city operations. The CIP also funds debt service on the city's enterprise resource planning system, which includes the city's financial, human resources, and budgeting systems. Initiatives currently underway

include a work order management system (Cityworks), new land management system, talent acquisition and recruiting system, and a fiber network. Each of these systems will improve or enhance city services.

Recent Accomplishments

- Executed a contract with Tyler Technologies Inc. as the preferred vendor for phase one of the land management system. The contractor will assess services to define individual business processes, provide software support and configuration, identify infrastructure requirements, install evaluation software, and train the project support team.
- Completed a project charter for the Peoplesoft maintenance upgrade based on a modified project approach. In addition to upgrading the software, staff will consider a long-term hosted solution, as agreed to by city executives and the project steering committee.

Work Plan Highlights

- Staff are working with Columbia Telecommunications Corporation Inc. (CTC) to develop a master plan for a city fiber system. Staff will also continue refining the business case for this investment, which includes specifying service improvements from the new system, identify cost savings from linking city facilities to fiber, identify potential partners, and a return on investment analysis. The additional operating costs are also being studied, including new positions, network equipment leasing, and ongoing maintenance.
- Through the Peoplesoft Center of Excellence, staff are seeking contractors to help staff upgrade the city's Peoplesoft system from version 9.0 to version 9.2. In 2013, Oracle Corporation launched version 9.2 and announced the company will stop servicing version 9.0 in 2016. In addition to the upgrade, staff are exploring potential hosting of our system.
- The City adopted a broadband resolution on January 7, 2014. With assistance from a consultant, city staff continue to develop a broadband strategy and related business model.
- City staff continue to advance the talent acquisition project, which will create an online staffing recruitment tool. City Council authorized a vendor contract for NeoGov, which provides a subscription service. City staff will focus on this project during the first half of FY2015.
- During calendar year 2014, city staff expect to complete the CityWorks work order management system and the Windows 7 conversion.

Operating Impacts

- The talent management acquisition system (NeoGov) requires an annual subscription license of roughly \$37,000. This amount is included in the FY2015 General Fund budget.
- The FY2015 General Fund budget includes a one-time amount of \$125,000 to provide additional professional services related to the land management system. City staff rely heavily on reports from the current system, and will need data and information from the new system. Consultants will support staff efforts to convert existing reports to the new system format, as well as develop new reports. City staff continue to evaluate the need for additional full-time staff to support the new land management system.
- The Peoplesoft maintenance upgrade requires no additional operating costs.

Horizon Issues

- Staff continue to discuss the scope, costs and benefits of an enterprise content management system (ECM). It will be necessary to identify the records management roles and responsibilities among city departments. Staff will also need to consider the scope and scale of the project—the city may consider a partial implementation as a first phase. Staff will also identify potential savings to offset the increased operating cost of this system.

- Motorola has announced it will no longer service and maintain the computer-aided dispatch system (CAD) used by the city for 911 emergency dispatch. City staff are working with stakeholders throughout Wake County to plan a system replacement, request 911 funds from the State, and negotiate long-term system management issues.

Technology Capital

Highlighted Projects

Land Management System: \$1,079,382 (\$3,502,372 including prior year appropriations)

This new system will track and manage the multi-departmental activities related to land use and community development. This involves such services as plan reviews, zoning, electronic plan submission, permitting, inspections, fire prevention, complaints and investigations, and economic development. The new system will integrate all land development activities, regardless of their entry into the development process, in a hierarchical, systematic basis. GIS-based location data will link all activities for a parcel of land, allowing the new system to link data from different city services.



Peoplesoft Maintenance Upgrade: \$2,000,000 (\$3,500,000 including prior year appropriations)

In 2009, the city launched version 9.0 of the Peoplesoft enterprise resource planning system (ERP). The ERP system includes financial, human resources, and budgeting modules. In 2013, Oracle Corporation unveiled version 9.2 and announced the company will stop servicing version 9.0 in 2016. The upgrade will bring the system up-to-date and offer improved functionality, including enhanced mobile computing, better analytics with pivot grids, personalized work centers for users, improved system navigation, and reduced maintenance costs.

