

7]hmicZF U`Y][\ `

7 Ud]hU` =a dfcj Ya YbhDfc[fUa `

:]gWU`MYUfg`&\$%\$!%%h fci [\ `&\$% !&\$`

H Y7]hm7 ci bW`

7\ Uf`Yg`7 "AYY_Yfz`A Uncf`

>Ua Yg`D`K Yglz`A Uncf`Dfc`HYa `

A Ufm15 bb`6 UXk]b`

H ca Ug`; "7fck XYf`

6 cbbYf`; UmcfX`

BUbWnAW Uf`UbY`

D\]]d`F`=g`Ymi

>c\ b`CXca `

Fi gg`GhYd\ Ybgcb`

9I YW hj Y`GHZZ

J. Russell Allen City Manager

Julian B. Prosser, Jr..... Assistant City Manager

Perry E. James, III. Chief Financial Officer

Louis M. Buonpane Budget Manager

Joyce L. Munro Acting Budget Manager

Kirsten M. Larson..... Senior Budget and Management Analyst

J. David Scarborough Budget and Management Analyst

With special acknowledgement to:

David P. Erwin Assistant Controller for Strategic Initiatives

Tyrone S. Williamson Business Analyst, Finance Department

K. Jordan Smith Budget and Management Analyst Intern

for their support in the development of this document

Cover Design by Javier Oseguera, Public Affairs Department

Table of Contents

Capital Improvement Program

Adopted Capital Improvement Program Message	i
Proposed Capital Improvement Program Message	iv
Introduction and Program Overview	1
Tables: CIP Expenditure and Funding Summary	5
Charts: CIP Expenditure and Funding Summary	8
Transportation	11
Public Utilities.....	2'
Parks and Recreation.....	(%
Stormwater Utility and Neuse Basin Environmental.....	5+
Housing	6-
General Public Improvement.....	7'
Resolution 2010-189.....	8'
CIP Project Codes	8)



City Of Raleigh North Carolina

June 28, 2010

Mayor Charles C. Meeker
Mayor Pro Tem James P. West
Councilor Mary-Ann Baldwin
Councilor Thomas G. Crowder
Councilor Bonner Gaylord
Councilor Nancy McFarlane
Councilor John Odom
Councilor Russ Stephenson

Dear Mayor and Councilors:

Presented in this document is the annual *Capital Improvement Program* (CIP) for the City of Raleigh, as adopted by the City Council on June 28, 2010.

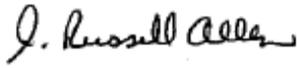
Summarized below are changes to the *Proposed Capital Improvement Program* made by Council prior to the adoption of the program. Detailed changes to Phase I of the program can be found in Resolution No. (2010)-189; *A Resolution Adopting the Capital Improvement Program for Fiscal Years 2010-11 through 2019-20*. A copy of the resolution is located at the end of the *Adopted Capital Improvement Program* document.

1. The Water Main Replacement/Rehabilitation (Water Revenue Bond) project funding was increased by \$200,000, for a total appropriation of \$1,250,000.
2. The Transit Project funding within the Transportation Program was increased by \$969,750, for a total appropriation of \$1,209,750.
3. Within the Transportation Program, the Parking Improvement project was adjusted by \$60,000, the Parking Deck Maintenance project was reduced by \$146,000, and the Parking Deck Assessment and Repairs project was increased by \$86,000, for a total appropriation of \$615,000.
4. Within the Transportation Program, the Street Resurfacing project was decreased by \$969,750, for a total appropriation of \$2,938,211.
5. Within the General Public Improvement Program, the following Economic Development Projects were increased by a total of \$194,000:
 - a. Raleigh Ensemble Players - \$60,000;
 - b. Burning Coal Theater \$60,000; and
 - c. Contemporary Art Museum - \$34,000.
6. The Upper Neuse Initiative and Water Quality (Falls Lake Initiative) funding was increased by \$1,000,000 for the FY11 Public Utilities capital program.

Mayor and Council
Adopted Capital Improvement Program Budget
June 28, 2010
Page 2

City administration is prepared to implement the projects authorized by Council's adoption of this *Capital Improvement Program*.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "J. Russell Allen". The signature is written in a cursive style with a prominent initial "J" and a long, sweeping underline.

J. Russell Allen
City Manager





City Of Raleigh *North Carolina*

May 18, 2010

Mayor Charles C. Meeker
Mayor Pro Tem James P. West
Councilor Mary-Ann Baldwin
Councilor Thomas G. Crowder
Councilor Bonner Gaylord
Councilor Nancy McFarlane
Councilor John Odom
Councilor Russ Stephenson

Dear Mayor and Councilors:

The 10-year Capital Improvement Program (CIP) for the City of Raleigh, spanning fiscal years 2010-11 through 2019-20, is hereby submitted to the City Council for consideration. The Phase I program, encompassing the first five years of the CIP, includes projects approved by Council in previous editions of the CIP as well as additional projects recommended as the result of planning processes. The Phase II program, spanning the second five year period, includes projects and capital maintenance needs necessary for the continuation of services to the citizens of the City.

This edition of the annual CIP for the City of Raleigh represents a \$730 million investment to address its capital needs over the five year Phase I period, a 39% reduction from the FY10 Adopted CIP. During the course of prioritizing and assessing capital project needs, a distinct funding gap between revenue sources and expenditures became apparent. This CIP attempts to address our City's most pressing capital needs, but necessarily reduces and defers numerous FY11 CIP project requests as a result of decreased available project funding.

Factors limiting revenues to support the proposed FY11 CIP include a reduction in interest income, General Fund and Public Utilities pay-go capital, facility fee revenues and Powell Bill funding. Uncertainties in financial markets are also affecting not only current bond funded projects but also the decision as to when future bond funded projects can be initiated. In order to meet the existing debt service model requirements through the transfer of facility fee revenues to debt service, 81% facility fee revenues collected in FY11 will go to debt service. This significantly lessens the support that facility fee revenues provide to Parks and Recreation and Transportation projects funding, both for current and future years.

Capital Investment Financing

The capital program continues to be primarily financed by the use of debt instruments. Appropriations from the current phased issuance of General Obligation bonds approved in

referendum for Parks (2007) and Housing (2005) projects are anticipated to end within the next two years. Given both Parks and Housing's reliance on bond funding, it will be essential that new bond programs be considered within the next three fiscal years. Future transportation projects rely on proposed bond funding totaling \$129.5 million, to be pursued with a bond referendum in Fiscal Year 2012.

Public Utilities continues its capital investment program with projects spread throughout all service areas. Transfers from Revenue Bonds of approximately \$213.6 million will serve to finance the water, wastewater, and reuse water projects necessary to ensure efficient and effective services to the fully-merged service area. Increasing debt service on capital projects already completed or underway will be supported by revenues from rate increases effective July 1, 2010, as proposed by the rate model.

Capital Investment Proposal

Total appropriations for Phase I of the CIP are proposed at the following levels for the six major program areas:

- 1. Transportation \$168.7 million
- 2. Public Utilities \$328.7 million
- 3. Parks \$50.4 million
- 4. Stormwater Utility and Neuse Basin
Environmental Program \$47.3 million
- 5. Housing \$10.0 million
- 6. General Public Improvements \$124.9 million

Programmatic Investment

Transportation

Funding of \$168.7 million is proposed for transportation infrastructure improvements. A proposed \$129.5 million bond referendum will be sought in FY12 to fund future projects. A decision to not approve a referendum in FY12 will result in the delay of a significant number of major street projects. A projected reduction in thoroughfare facility fees has been addressed in this program.

Transportation projects in Phase I include:

- Major Streets: Comprised of fifteen street improvement projects, designed in keeping with "complete streets" principles, which includes multimodal accommodations for bicycle, pedestrian and transit facilities.
- Street Improvements: Funding is allocated to the street resurfacing program and repairs to city-owned bridges.
- Transit: Provides funds for maintenance and upgrades to facilities and equipment that support transit system operations.
- Parking Program: Includes funding for necessary assessment of conditions of City-owned parking decks and subsequent repairs and maintenance. This program is funded directly from the city's Parking Fund.

Public Utilities

The utilities capital program continues to execute an extensive number of investment projects, as well as initiatives to improve water and wastewater operations throughout the Raleigh service area which now includes providing service and capital investment to infrastructure located within the municipalities of Garner, Knightdale, Wake Forest, Rolesville, Wendell and Zebulon. A total investment program of \$328.7 million is proposed over Phase I of the capital program. A \$100 million revenue bond is proposed for January 2011 which will address both FY11 and future projects.

Parks

Phase I of the Parks and Recreation capital program earmarks \$1.0 million for property acquisition, \$14.7 million for development projects, and \$34.6 million for phased expenditures from the 2007 Parks Bonds. The Parks capital program has been affected the most by the reduction in facility fees, as current projections indicate there will be no facility fee revenues available for Parks pay-go projects over the course of the next five years. This and the decrease in other pay-go capital resources has resulted in limited land acquisition for future parks and greenway projects, reduced greenway development, and delayed repairs and improvements to parks and other infrastructure. It is anticipated that bond funding will need to be addressed within the next three fiscal years.

Stormwater Utility and Neuse Basin Environmental Program

This year's CIP proposes a program of \$47.3 million in Phase I financed through operating transfers, also known as pay-go funding and anticipated capital reserves. Stormwater projects are associated with stormwater runoff, pollution control and water quality, drainage improvements, the alleviation of flooding, and improvements to watercourses that require erosion control and streambed remediation throughout the city's jurisdiction.

General Public Improvements

All other capital facility and maintenance needs fall under the category of General Public Improvements (GPI). This capital program represents a commitment to maintain and improve existing infrastructure as well as addresses the need for major new facilities and economic projects throughout the city. A total of \$121.1 million in general improvement projects and \$3.8 million in economic development initiatives make up the \$124.9 million investment proposal for the Phase I program.

Major project categories within the GPI portion of the CIP include:

- **Bond Funded Facilities and Major Renovation Construction and Planning:** Continued development and construction of Remote Operations facilities, three new fire stations, expansion of the fire training facility, police district stations, and a police training facility are also identified needs in Phase I of the CIP. The total construction cost of these projects is estimated at \$102.2 million in Phase I, with an additional \$124.3 million needed in Phase II. COP funding will be needed to support these projects.
- **Facility Improvements:** These projects address the major infrastructure repairs and maintenance of City-owned buildings and facilities (\$7.9 million).
- **Technology, Equipment, and Other:** Funds technology (\$5.1 million), sustainability initiatives (\$1.0 million), public safety communication upgrades (\$1.0 million), as well as other projects (\$3.9 million) with dedicated revenue sources or council commitments.
- **Economic Development:** Projects in this category (\$3.8 million) target areas of the City, with particular emphasis in the downtown core, to accommodate and promote economic growth.

Summary

This annual *Capital Improvement Program* represents a commitment to maintain and improve our existing infrastructure as well as fund the construction of major new city facilities and economic development projects deserving of our first class city. While attempting to address these commitments, it focuses on the need to be fiscally constrained yet optimistically foresighted in our future programmatic goals. It utilizes available resources in an effective and responsible manner, and is in line with direction set by the Council. Administration is available to assist the Council and respond to questions and concerns as you review this proposal.

Respectfully submitted,



J. Russell Allen
City Manager

Overview of Capital Improvement Program

Capital improvement programming is a procedure for analyzing major facility needs, projecting fiscal resources, establishing priorities, and developing schedules for the development of capital facilities. For the purpose of the *Capital Improvement Program* (CIP), capital facilities are generally defined as fixed assets with a useful life greater than ten years and with a cost of greater than \$25,000. Regular purchases of vehicles and equipment for routine operations and most maintenance and repair costs for city facilities are funded through the equipment fund and the annual operating budget.

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. It is recognized that the policy represented by the CIP reflects the best judgment of the City Council at the time, and that additional needs and constraints are likely to become apparent before the program is completed.

The policy established in the CIP provides important guidance for city administration, the various boards and commissions appointed by City Council that assist with municipal governance, and all citizens of the City of Raleigh with regard to the following matters:

1. Preparation of the capital portion of the annual operating budget.
2. Scheduling and prioritization of project planning and design.
3. Site selection and property acquisition.
4. Financial modeling and planning, especially with regard to the financing of debt.
5. Coordination with federal, state, county and other local agencies.
6. Private planning efforts of businesses, developers, and neighborhood organizations.

Capital improvement programming is one element in the planning process of the city. It is a bridge between general long-term plans and short-term project planning. In the capital improvement programming process, the long range objectives of the city are reviewed with growth trends, and translated into a more specific multi-year program. This program provides a framework for individual project decisions consistent with multi-year needs, priorities, and financial resources.

The Capital Improvement Program looks ahead ten years to predict and plan for capital needs. Phase I, covering fiscal years 2010-11 through 2014-15, addresses both project needs and a financial strategy for this period. Phase II, covering fiscal years 2015-16 through 2019-20, provides a more general review of anticipated project needs for the balance of the plan.

Capital Improvement Program Expenditures

Phase I of the *Capital Improvement Program* spans five fiscal years, from 2010-11 through 2014-15. Project costs, descriptions and funding plans are presented in six programmatic categories for Phase I: Transportation, Public Utilities, Parks, Stormwater Utility and Neuse Basin Environmental, Housing, and General Public Improvement. The information provided with each programmatic category also includes a listing of estimated capital needs expected in the five-year period immediately following Phase I.

The major initiatives represented in the 2010-11 edition of the *Capital Improvement Program* include a presentation of project expenditure proposals associated with the 2007 Parks Bonds, 2005 Affordable Housing Bonds, and a proposed 2011 Transportation Bond. This program has seen a dramatic reduction in requests throughout all categories, due to the current economic condition being experienced not only within the city limits but nationwide. Due to the policy decision to use facility fee revenues to support debt service, both Parks and Recreation and Transportation capital programs have seen a decline in the facility fee revenues to support their projects. Unless the economy improves significantly, Parks & Recreation will not receive revenue support from facility fees during Phase I of this program.

The Phase I **transportation program** addresses thoroughfare needs and other street improvements, major street maintenance, sidewalk construction, bicycle facilities, and transit capital needs at a total Phase I projected cost of \$169,874,848.

The **public utilities program** includes treatment plant design, construction and improvements, storage and pumping facility maintenance and improvements, and the maintenance and extension of water and sewer mains for a total Phase I projected cost of \$329,869,500.

The **parks program** includes funding for park site and greenway trail acquisition, major maintenance projects, and the design and development of parks located throughout the city jurisdiction. The Phase I cost for the parks program is \$50,411,221. It is anticipated that the 2007 bond revenues will be depleted in the next two years.

The **stormwater utility and Neuse Basin environmental program** continues the city's efforts to proactively manage and mitigate the effects of stormwater runoff, alleviate flooding, improve the drainage capacity of watercourses and containment structures, and provide methods for pollution control and improving water quality within the Neuse River drainage basin. The program cost for projects in Phase I is \$47,285,000.

The **housing program** will provide capacity for increasing the stock of affordable housing throughout the city. The program cost for projects included in Phase I is \$10,010,000.

The **general public improvement program** includes funding for various public improvement projects and initiatives, including the maintenance and construction of public safety structures such as fire stations and police training facilities, general maintenance of city-owned buildings and infrastructure, economic development and other general needs. The projected cost, excluding proposed alternative financing, for Phase I is \$125,123,214.

The **total** projected cost for Phase I *Capital Improvement Program* is \$732,573,783, a 39% reduction from the FY10 CIP.

Capital Improvement Program Funding Resources

Funding resources for capital improvement projects include: 1) designated revenues, 2) bond proceeds, and 3) annual revenues. Certain revenues are designated for particular capital purposes by federal guidelines, state statute, or by previous action of the City Council. Annual revenues may be used to supplement the resources available from designated sources. Bond proceeds are generally used for larger projects and for programs that require financing at substantially greater levels than are generally available from annual resources. Major funding resources for Phase I of the Capital Improvement Program (CIP) are described below:

Powell Bill Revenue

The portion of the state gasoline tax returned to the city is known as Powell Bill revenue. This funding source is restricted to use for city-system streets, sidewalks, and bicycle facilities located within the city limits. The city has traditionally allocated a portion of the revenues to street maintenance operations and a portion to capital improvements. Capital expenditures from Powell Bill funds are scheduled at \$21,705,000 over the next five years.

General Fund

Supplemental and optional sales taxes, previously designated as major sources of revenue for the capital program, are now funneled to the program via the General Fund. This source of funding provides a significant revenue stream to fund primarily the general public improvement capital program. Funding in the amount of \$32,064,000 is projected over the next five years.

Facility Fees

While in the past facility fee revenues have been instrumental in funding both Parks and Recreation and Transportation capital programs, the recent decision to support debt service through facility fee revenues has greatly diminished the allocation to both. The facility fee program is expected to provide \$5,793,013 for thoroughfares over the next five years, however no allocation is budgeted for Parks and Recreation. These funds are restricted by statute to be allocated to the purposes for which they are collected. The amount of facility fees projected to go to the debt service fund over the next five years is \$20,234,508.

Annual Revenues

The funding plan projects the use of \$110,500,000 in annual revenue from the public utilities operating fund for the five-year public utilities capital program. The CIP also projects funding in the amount of \$38,172,000 from the stormwater utility operating fund for the five-year stormwater and Neuse Basin environmental capital program.

Capital Fund Reserves

Capital reserves are an accumulation of residual funding after projects have been completed. They are expected to provide \$14,488,900 in funding resources for capital improvements over the next five years.

Interest and Assessments

Street, sidewalk, water, sewer capital and other accounting funds receive revenues from fees, interest earnings, assessments, payments in lieu of taxes/assessments, as well as other sources. They are expected to provide \$6,895,000 in funding resources for capital improvements over the next five years.

Debt Financing

Bond authorizations within the Phase I include \$214,869,500 in revenue bonds for utility improvements; \$600,000 in reserves for street improvements; \$6,825,000 for the housing program; and \$34,651,221 for parks. Transportation program includes proposed bond funding totaling \$129.5 million, to be pursued with a proposed bond referendum in late 2011 (FY12). The general public improvement program includes an anticipated need for future Certificates of Participation funding in the amount of \$100,971,606 over the span of Phase I.

Capital Improvement Expenditure Summary by Program

TRANSPORTATION	2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary	Phase II Summary	10 Year Summary
Major Streets	\$ 2,000,000	\$ 17,997,000	\$ 32,371,000	\$ 29,281,000	\$ 33,390,000	\$ 115,039,000	\$ 42,588,000	\$ 157,627,000
Street Improvements	2,938,211	9,360,855	8,993,078	8,138,215	7,989,694	37,420,053	\$ 71,550,000	108,970,053
Pedestrian Projects	905,000	2,270,000	2,400,000	2,069,800	1,750,000	9,394,800	\$ 4,625,000	14,019,800
Transit Projects	1,209,750	790,200	685,250	1,031,130	1,031,830	4,748,160	\$ 1,600,000	6,348,160
Parking Improvements	615,000	675,000	914,535	533,360	534,940	3,272,835	\$ 5,770,100	9,042,935
Total, Transportation	\$ 7,667,961	\$ 31,093,055	\$ 45,363,863	\$ 41,053,505	\$ 44,696,464	\$ 169,874,848	\$ 126,133,100	\$ 296,007,948
PUBLIC UTILITIES								
Water Projects	\$ 14,890,000	\$ 13,775,000	\$ 21,113,500	\$ 16,800,000	\$ 19,150,000	\$ 85,728,500	\$ 253,338,000	\$ 339,066,500
Wastewater Projects	31,350,000	54,526,000	86,365,000	33,100,000	38,800,000	244,141,000	264,200,000	508,341,000
Total, Public Utilities	\$ 46,240,000	\$ 68,301,000	\$ 107,478,500	\$ 49,900,000	\$ 57,950,000	\$ 329,869,500	\$ 517,538,000	\$ 847,407,500
PARKS								
Acquisition Projects	\$ -	\$ 100,000	\$ 200,000	\$ 300,000	\$ 400,000	\$ 1,000,000	\$ 27,500,000	\$ 28,500,000
Development Projects	1,300,000	2,600,000	3,160,000	3,650,000	4,050,000	14,760,000	150,845,000	165,605,000
2007 Park Bond	27,101,221	7,550,000	-	-	-	34,651,221	-	34,651,221
Total, Parks	\$ 28,401,221	\$ 10,250,000	\$ 3,360,000	\$ 3,950,000	\$ 4,450,000	\$ 50,411,221	\$ 178,345,000	\$ 228,756,221
STORMWATER UTILITY and NEUSE BASIN ENVIRONMENTAL								
Neuse Environmental	\$ 1,550,000	\$ 3,090,000	\$ 3,800,000	\$ 4,550,000	\$ 7,200,000	\$ 20,190,000	\$ 20,330,000	\$ 40,520,000
Stormwater Utility	3,020,000	4,410,000	6,655,000	8,065,000	4,945,000	27,095,000	25,470,000	52,565,000
Total, Stormwater	\$ 4,570,000	\$ 7,500,000	\$ 10,455,000	\$ 12,615,000	\$ 12,145,000	\$ 47,285,000	\$ 45,800,000	\$ 93,085,000
HOUSING								
Housing Projects	\$ 7,900,000	\$ 1,220,000	\$ 400,000	\$ 400,000	\$ 90,000	\$ 10,010,000	\$ -	\$ 10,010,000
GENERAL PUBLIC IMPROVEMENT								
Bond Funded-Fac/Major Renov.	\$ 28,899,866	\$ 3,640,165	\$ 30,832,504	\$ 23,760,303	\$ 8,294,900	\$ 95,427,738	\$ 116,050,348	\$ 211,478,086
Facilities/Major Renov. Planning	-	1,569,164	2,999,700	1,739,400	539,400	6,847,664	8,254,400	15,102,064
Facility Improvements	1,450,900	990,000	1,785,000	1,485,000	2,166,000	7,876,900	1,000,000	8,876,900
Technology, Equipment, Other	755,677	2,373,298	3,301,455	3,705,482	960,000	11,095,912	1,850,161	12,946,073
Economic Development	40,000	1,065,000	2,590,000	90,000	90,000	3,875,000	-	3,875,000
Total, GPI	\$ 31,146,443	\$ 9,637,627	\$ 41,508,659	\$ 30,780,185	\$ 12,050,300	\$ 125,123,214	\$ 127,154,909	\$ 252,278,123
TOTAL, All Programs	\$125,925,625	\$128,001,682	\$ 208,566,022	\$ 138,698,690	\$ 131,381,764	\$ 732,573,783	\$ 994,971,009	\$ 1,727,544,792

**Capital Improvement Program
Phase I Funding by Source**

Pay-Go and Miscellaneous Funds	2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
Powell Bill	\$ 3,980,000	\$ 4,160,000	\$ 4,340,000	\$ 4,525,000	\$ 4,700,000	\$ 21,705,000
General Fund	2,354,000	6,200,000	7,310,000	7,850,000	8,350,000	32,064,000
Revolving Fund	100,000	100,000	100,000	100,000	100,000	500,000
Public Utility Revenues	3,500,000	15,000,000	30,000,000	30,000,000	32,000,000	110,500,000
Stormwater Utility Revenues	4,570,000	7,490,000	8,157,000	8,705,000	9,250,000	38,172,000
Walnut Creek Amphitheater Rent	401,677	416,677	431,677	446,677	460,000	2,156,708
Interlocal Agreement	200,000	500,000	500,000	500,000	500,000	2,200,000
Sidewalk Fund	196,000	199,000	202,000	205,000	208,000	1,010,000
Street Fund	850,000	875,000	900,000	925,000	950,000	4,500,000
Parking Operations	615,000	675,000	914,535	533,360	534,940	3,272,835
Program Income	475,000	1,000,000	400,000	-	-	1,875,000
Subtotal, Pay-Go and Misc. Funds	\$ 17,241,677	\$ 36,615,677	\$ 53,255,212	\$ 53,790,037	\$ 57,052,940	\$ 217,955,543

Reserve Funds

Streets, Sidewalk and Powell Bill	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Public Utility	-	1,000,000	1,000,000	1,000,000	1,000,000	4,000,000
Housing	600,000	220,000	-	400,000	90,000	1,310,000
Stormwater	-	10,000	2,298,000	3,910,000	2,895,000	9,113,000
General Public Improvement	65,900	-	-	-	-	65,900
Parks -	-	-	-	-	-	-
Subtotal, Reserve Funds	\$ 665,900	\$ 1,230,000	\$ 3,298,000	\$ 5,310,000	\$ 3,985,000	\$ 14,488,900

Facility Fees

Streets	\$ 831,961	\$ 961,055	\$ 1,188,328	\$ 1,330,145	\$ 1,481,524	\$ 5,793,013
Parks	-	-	-	-	-	-
Subtotal, Facility Fees	\$ 831,961	\$ 961,055	\$ 1,188,328	\$ 1,330,145	\$ 1,481,524	5,793,013

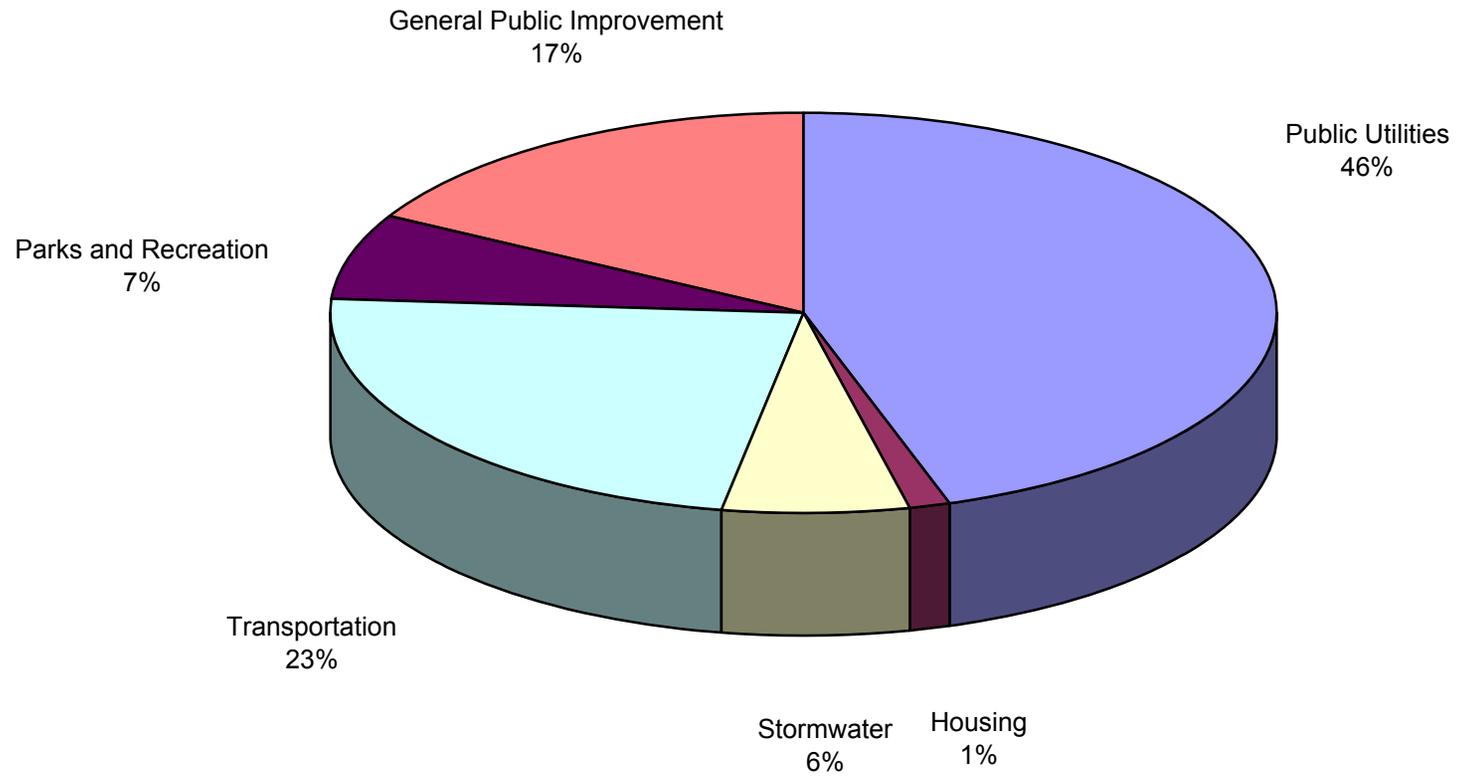
Interest and Assessments

Subtotal, Interest and Assessments	\$ 1,520,000	\$ 1,175,000	\$ 1,300,000	\$ 1,425,000	\$ 1,475,000	\$ 6,895,000
---	---------------------	---------------------	---------------------	---------------------	---------------------	---------------------

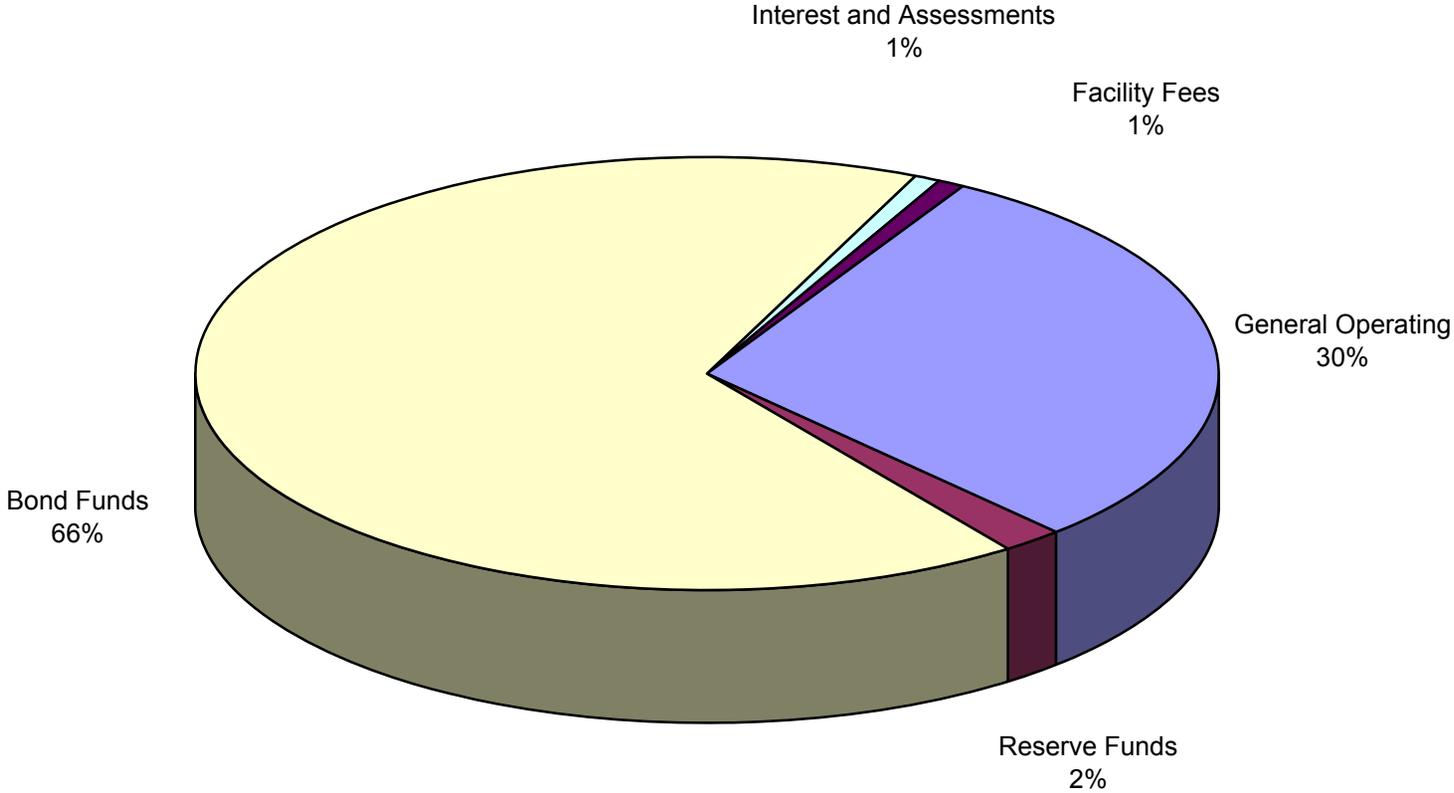
**Capital Improvement Program
Phase I Funding by Source**

Debt Financing	2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
Utility	\$ 42,240,000	\$ 52,301,000	\$ 76,478,500	\$ 18,900,000	\$ 24,950,000	\$ 214,869,500
Streets	-	23,573,000	37,119,000	32,785,000	36,047,000	129,524,000
Housing	6,825,000	-	-	-	-	6,825,000
Parks	27,101,221	7,550,000	-	-	-	34,651,221
Stormwater	-	-	-	-	-	-
General Public Improvement	28,899,866	4,595,950	35,926,982	25,158,508	6,390,300	100,971,606
Bond Reserves	600,000	-	-	-	-	600,000
Subtotal, Debt Financing	\$ 105,666,087	\$ 88,019,950	\$ 149,524,482	\$ 76,843,508	\$ 67,387,300	\$ 487,441,327
 Total Funding, All Sources	 \$ 125,925,625	 \$ 128,001,682	 \$ 208,566,022	 \$ 138,698,690	 \$ 131,381,764	 \$ 732,573,783

FY 2010-11 Adopted CIP Phase I Total Expenditures



FY2010-11 Adopted CIP Phase I Total Funding





Transportation

The transportation program includes major street construction, street improvements, pedestrian and bicycle projects, and transit projects. Total Phase I funding for the transportation program is \$169,874,848, including the phased completion of projects funded by the 2005 Transportation Bond, proposed bond funding totaling \$129.5 million, to be pursued with a bond referendum in Fiscal Year 2012, and annual funding. If a proposed bond referendum is not approved, it will require the review and delay of a number of street projects. Projects within Phase I for **major streets** are comprised of fifteen street improvement projects. Each project is being designed in keeping with "complete streets" principles, which includes multimodal accommodations for bicycle, pedestrian and transit facilities.

The **street improvements** component of the transportation program includes funding for street resurfacing, street improvements, petition paving projects, traffic signal installations, intersection improvements, and median improvements. Funding is allocated to the street resurfacing program and repairs to city-owned bridges. The program also includes the construction of additional workspace and improvements to existing facilities located within the Traffic Engineering Center.

The **bicycle, pedestrian & planning improvements** element of the transportation program includes funding for new curb ramps, thoroughfare streetlight installation, intersection pedestrian improvements and funding for sidewalk construction, maintenance, and repair. The bicycle program is a new element of the capital improvement program following the recommendations of the newly adopted Bicycle Comprehensive Plan. This section also includes matching funds to be provided to NCDOT for construction of sidewalks associated with state projects. These funds will be used to improve intersections between greenways and public streets and to conduct advanced planning for future thoroughfare corridors.

The **parking improvements** section includes funding for the city's off-street parking facilities maintenance and repair needs.

The **transit section** provides funds for maintenance and upgrades to facilities and equipment that support transit system operations.

The major funding sources for transportation projects in Phase I include facility fees, the local share of the state gasoline tax (Powell Bill), and general obligation bonds. A listing and a brief description of projects proposed for the five years following Phase I are provided at the end of the Transportation section. The cost of the projects for the second five years is summarized below as Phase II costs.

The table provides a summary of transportation costs in the Capital Improvement Program.

Ten-Year Summary of the Transportation Program

	PHASE I	PHASE II	TOTAL
Major Street Projects	\$ 115,039,000	\$ 42,588,000	\$ 157,627,000
Street Improvements	37,420,053	71,550,000	108,970,053
Pedestrian Improvements	9,394,800	4,625,000	14,019,800
Transit Projects	4,748,160	1,600,000	6,348,160
Parking Improvements	3,272,835	5,770,100	9,042,935
TOTAL	\$ 169,874,848	\$ 126,133,100	\$ 296,007,948

Project Costs and Funding Plan for Transportation Program

Major Streets		2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
1	Falls of Neuse Road Realign and Widen (*)	\$ 2,000,000	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000
2	Poole Road Widening (*)	-	1,431,000	2,331,000	9,202,000	-	12,964,000
3	Leesville Road Widening - 1-540 North (*)	-	2,521,000	8,404,000	-	-	10,925,000
4	Buck Jones Road Widening	-	6,355,000	-	-	-	6,355,000
5	Lake Wheeler Road Improvements (*)	-	255,000	257,000	1,637,000	-	2,149,000
6	Mitchell Mill Road Widening (*)	-	4,401,000	13,620,000	-	-	18,021,000
7	Sandy Forks Road Improvements	-	1,034,000	1,675,000	6,646,000	-	9,355,000
8	Jones Franklin Road Widening	-	-	1,945,000	2,154,000	12,538,000	16,637,000
9	Old Wake Forest Road Widening	-	-	1,939,000	3,581,000	12,494,000	18,014,000
10	South/Lenoir Two-Way Conversion, Part 2	-	-	200,000	1,500,000	-	1,700,000
11	Tryon Road Part C	-	-	-	1,276,000	2,977,000	4,253,000
12	Rock Quarry Road Widening - Part A	-	-	-	1,285,000	778,000	2,063,000
13	Six Forks Road Widening	-	-	-	-	1,293,000	1,293,000
14	Leesville Rd Widening-Westgate to O'Neal (Pt A)	-	-	-	-	748,000	748,000
15	New Bern Avenue Improvements	-	-	-	-	562,000	562,000
16	Public-Private Partnerships Reserve	-	2,000,000	2,000,000	2,000,000	2,000,000	8,000,000
Subtotal, Major Streets		\$ 2,000,000	\$ 17,997,000	\$ 32,371,000	\$ 29,281,000	\$ 33,390,000	\$ 115,039,000

Street Improvements		2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
1	Street Resurfacing	\$ 2,938,211	\$ 6,820,855	\$ 6,553,078	\$5,498,215	\$6,149,694	\$ 27,960,053
2	Street Improvements and Petition Paving Projects	-	1,200,000	1,400,000	1,600,000	800,000	5,000,000
3	Median Repair/Signage Improvements	-	325,000	375,000	475,000	475,000	1,650,000
3	Traffic Signal Installation	-	165,000	165,000	165,000	165,000	660,000
4	Traffic Calming and Pedestrian Safety (*)	-	300,000	300,000	300,000	300,000	1,200,000
5	Traffic Engineering Center Improvements	-	350,000	-	-	-	350,000
6	Bridge Repairs	-	100,000	100,000	100,000	100,000	400,000
7	Infrastructure Repairs	-	100,000	100,000	-	-	200,000
Subtotal, Street Improvements		\$ 2,938,211	\$ 9,360,855	\$ 8,993,078	\$ 8,138,215	\$ 7,989,694	\$ 37,420,053

Project Costs and Funding Plan for Transportation Program

Bicycle, Pedestrian and Planning Improvements		2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
1	ADA Curb Ramps	\$ -	\$ 175,000	\$ 175,000	\$175,000	\$ 175,000	\$ 700,000
2	Advanced Planning Feasibility Studies	-	50,000	50,000	50,000	50,000	200,000
3	Bicycle Facilities/Parking & Stations	-	25,000	25,000	25,000	25,000	100,000
4	Bike Lane Marking and Signage	-	500,000	500,000	500,000	500,000	2,000,000
5	Blue Ridge - Hillsborough Grade Separation	250,000	-	-	-	-	250,000
6	Blue Ridge Rd/State Fairgrounds	-	250,000	500,000	-	-	750,000
7	Falls of Neuse Rd Bridge Replacement	300,000	-	-	-	-	300,000
8	Greenway/Street Intersection Improvements	-	20,000	-	-	-	20,000
9	Intersection Pedestrian Improvements	-	150,000	150,000	150,000	150,000	600,000
10	Priority Bike Lane Striping Project	-	-	-	223,200	-	223,200
11	Sidewalk Improvements	-	750,000	500,000	500,000	500,000	2,250,000
12	Sidewalk Repairs	-	25,000	25,000	25,000	25,000	100,000
13	Six Forks Road Sidewalks	-	-	-	96,600	-	96,600
14	Thoroughfare Streetlight Installation	-	300,000	300,000	300,000	300,000	1,200,000
15	Tryon Road Widening (U-4432)	-	-	150,000	-	-	150,000
16	Western-Hillsborough Sidewalks (B-4656)	355,000	-	-	-	-	355,000
17	Wetland Mitigation & Delineation	-	25,000	25,000	25,000	25,000	100,000
Subtotal, Bicycle, Ped & Planning Improvements		\$ 905,000	\$ 2,270,000	\$ 2,400,000	\$ 2,069,800	\$ 1,750,000	\$ 9,394,800

Transit Projects		2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
1	Transit Equipment and Facilities	\$ 37,250	\$ 75,200	\$ 25,250	\$ 16,130	\$ 41,830	\$ 195,660
2	Bus and Van Replacement	507,500	290,000	230,000	580,000	580,000	\$ 2,187,500
3	Preventive Maintenance	425,000	425,000	430,000	435,000	410,000	\$ 2,125,000
4	Design/Engineering/Construction	240,000	-	-	-	-	\$ 240,000
Subtotal, Transit Projects		\$ 1,209,750	\$ 790,200	\$ 685,250	\$ 1,031,130	\$ 1,031,830	\$ 4,748,160

Project Costs and Funding Plan for Transportation Program

Parking Improvement Program		2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
1	Parking Deck Maintenance & Imps	\$ 214,000	\$ 360,000	\$ 240,000	\$ 240,000	\$ 200,000	\$ 1,254,000
3	Parking Meter Replacement	401,000	-	-	-	-	\$ 401,000
2	Parking Deck Assessment & Repairs	-	315,000	-	-	30,000	345,000
5	LED Lighting	-	-	674,535	293,360	304,940	\$ 1,272,835
Subtotal, Parking Improvements		\$ 615,000	\$ 675,000	\$ 914,535	\$ 533,360	\$ 534,940	\$ 3,272,835

(*) = 2005 Street Bond Project

Total Project Costs, Transportation \$ 7,667,961 \$ 31,093,055 \$ 45,363,863 \$ 41,053,505 \$ 44,696,464 \$ 169,874,848

Program Funding Resources		2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
	Street Facility Fees (As Per Facility Fee Review)	\$ 831,961	\$ 961,055	\$ 1,188,328	\$ 1,330,145	\$ 1,481,524	\$ 5,793,013
	Powell Bill	3,980,000	4,160,000	4,340,000	4,525,000	4,700,000	21,705,000
	Interest Income	595,000	650,000	700,000	750,000	775,000	3,470,000
	Sidewalk Fund Revenue	196,000	199,000	202,000	205,000	208,000	1,010,000
	Street Fund Revenue	850,000	875,000	900,000	925,000	950,000	4,500,000
	Parking Operations	615,000	675,000	914,535	533,360	534,940	3,272,835
	2005 Street Bond Reserves	600,000	-	-	-	-	600,000
	Potential New Bond Proceeds	-	23,573,000	37,119,000	32,785,000	36,047,000	129,524,000
Total, Transportation		\$ 7,667,961	\$ 31,093,055	\$ 45,363,863	\$ 41,053,505	\$ 44,696,464	\$ 169,874,848

Phase I - Transportation

Major Streets

1. Falls of Neuse Road Realignment and Widening (*): \$2,000,000
This project will construct a four-lane median divided roadway on new location from Fonville Road to New Falls of Neuse Road, including a new bridge crossing over the Neuse River. It will also widen existing Falls of Neuse Road to a four-lane median divided roadway from Raven Ridge Road to Fonville Road. Both sections will include curb and gutter, sidewalks, and streetlights on both sides.
2. Poole Road Widening: \$12,964,000
This project will widen Poole Road to a four lane median divided section with curb and gutter, sidewalks, and streetlights from Maybrook Road to Barwell Road.
3. Leesville Road Widening, I-540 North: \$10,925,000
This project will widen and realign Leesville Road to a four-lane median-divided section with curb and gutter, sidewalks, and streetlights between I-540 and existing New Leesville Boulevard.
4. Buck Jones Road Widening: \$6,355,000
This project will widen Buck Jones Road to a three lane section with curb and gutter, sidewalks, and streetlights from Farmgate Road to Xebec Street.
5. Lake Wheeler Road Improvements: \$2,149,000
This project will construct a multi-purpose path along the west side of the roadway and will provide turning lanes at various intersections along Lake Wheeler Road between Tryon Road and the I-40 Interchange. Curb and gutter will not be constructed at this time and the sidewalk will be constructed behind the existing ditch.
6. Mitchell Mill Road Widening: \$18,021,000
This project will widen Mitchell Mill Road to a four lane median divided section with curb and gutter, sidewalks and streetlights from Louisburg Road (US 401) to Watkins Road.
7. Sandy Forks Road Improvements: \$9,355,000
This project will widen Sandy Forks Road to a three lane section with curb and gutter, sidewalks, and streetlights from Six Forks Road to Falls of Neuse Road.
8. Jones Franklin Road Widening: \$16,637,000
This project will widen Jones Franklin Road to a four lane median divided section with curb and gutter, sidewalks, and streetlights from Dillard Drive to the I-440 interchange and includes widening the existing bridge over I-40 between Crossroads Boulevard and Wayne Street.
9. Old Wake Forest Road Widening: \$18,014,000
This project will widen Old Wake Forest Road to a four lane median divided section with curb and gutter, sidewalks, and streetlights from Litchford Road to Capital Boulevard (US 1).
10. South/Lenoir Two-Way Conversion, Part 2: \$1,700,000
The project will complete the conversion of South Street and Lenoir Street from one-way streets to two-way streets in downtown Raleigh
11. Tryon Road, Part C: \$4,253,000
This project will widen Tryon Road to a four lane median divided roadway with curb and gutter, street lights and sidewalks on both sides Lake Wheeler Road to the Norfolk Southern Railroad Bridge.

12. Rock Quarry Road Widening, Part A: \$2,063,000

This project will widen the existing three lane segment of Rock Quarry Road between Star Sapphire Drive to Sunnybrook Road to a multilane section with curb and gutter, sidewalks and streetlights on both sides. This project includes widening the bridge over I-440.

13. Six Forks Road Widening: \$1,293,000

This project will widen Six Forks Road to a six lane median divided section with curb and gutter, sidewalks, and streetlights from Rowan Street to Sandy Forks Road.

14. Leesville Road Widening, Westgate to O'Neal (Part A): \$748,000

Widen Leesville Road to a four-lane divided section with curb and gutter and sidewalks on both sides between Westgate Road to O'Neal Road.

15. New Bern Avenue Improvements: \$562,000

This project involves the construction of curb and gutter, drainage, sidewalks, and streetlights on both sides of New Bern Avenue between Poole Road and Sunnybrook Road.

16. Public-Private Partnership Reserve: \$8,000,000

Fund reserves established for public-private agreements for thoroughfare improvements and collector street system

Street Improvements1. Street Resurfacing (*): \$27,960,053

Resurfacing deteriorating streets helps to avoid more serious and costly repairs at a later date and maintain the integrity and usability of roadways. Resurfacing activities include pavement milling, pavement patching, utility adjustments, and pavement resurfacing. A bi-annual pavement condition survey, along with further inspections by Street Maintenance personnel, identifies the streets that require resurfacing. The resurfacing is performed by contract.

2. Street Improvements and Petition Paving Projects: \$5,000,000

Construct street improvements and petition paving projects associated with capital projects or petition projects as requested by citizens and submitted to City Council for approval.

3. Median Repair/Signage Improvements: \$1,650,000

This is a program to improve services at intersections through refurbishment of intersection medians, LED signal head replacements and overhead street markers which are being placed at all signalized intersections.

4. Traffic Signal Installation: \$660,000

This program provides funding to contract for the installation of new traffic signals within the city and provide signal timing plans along major thoroughfares.

5. Traffic Calming and Pedestrian Safety(*): \$1,200,000

This program provides assistance on residential streets experiencing significant speeding problems. A portion of these funds may be used to retain consultant services to assist with design and construction of these street improvements.

6. Traffic Engineering Center Improvements: \$350,000

This funding will provide for the construction of a new sign screening building, storage shelters and resurfacing of the Signal and Services Shop parking lot.

7. Bridge Repairs: \$400,000

This project will address necessary bridge repairs and provide maintenance for city-owned bridges. This funding will provide for addressing needs of 51 bridges on a gradual basis and will focus on the oldest with the most needs first.

8. Infrastructure Repairs: \$200,000

Additional funding for curb and gutter, sidewalk, and street repairs above the routine maintenance program. Increased costs of repairs and additional citizen expectations have created a need for specialized funding for east Visioning and South Park area. neighborhood infrastructures.

Bicycle, Pedestrian and Planning Projects**1. ADA Curb Ramps: \$700,000**

The Americans with Disabilities Act requires installation of wheelchair accessible ramps at intersections where sidewalks adjoin streets. These ramp installations are completed in conjunction with the city's annual street resurfacing program.

2. Advanced Planning and Feasibility Studies: \$200,000

This program will fund engineering studies and environmental documentation/permitting for the multiple future thoroughfare corridors throughout the city.

3. Bicycle Facilities/Parking and Stations: \$100,000

Provide bicycle racks, secure parking bicycle parking stations and supportive facilities per the recommendation of the City of Raleigh Bicycle Transportation Plan.

4. Bike Lane Marking and Signage: \$2,000,000

Provide bicycle lane striping and bicycle emblem installation per the recommendation of the City of Raleigh Bicycle Transportation Plan. This project will also provide the necessary improvements or replacement of existing bicycle route signage and install additional signs and way finding equipment.

5. Blue Ridge- Hillsborough Grade Separation: \$250,000

This project will construct a grade separation at the intersection of Blue Ridge Road and Hillsborough Street

6. Blue Ridge Road / State Fairgrounds: \$750,000

Install sidewalks along the west side of Blue Ridge Road between Hillsborough Street and Wade Avenue adjacent to the NC State Fairgrounds.

7. Falls of Neuse Road Bridge Replacement: \$300,000

This project will construct a new bridge crossing over the Neuse River included in the Falls of Neuse Road widening and realignment capital improvement project.

8. Greenway / Street Intersection Improvements: \$20,000

This project will install improvements at various intersections between Capital Area Greenways and local streets. Potential improvements include new signage, curb cuts, crosswalks, and other traffic controls.

9. Intersection Pedestrian Improvements: \$600,000

This is a program to improve pedestrian facilities at major thoroughfare intersections by adding crosswalks, pedestrian refuges, pedestrian signal heads and push buttons. Priority will be given to intersections that have high numbers of pedestrians or transit riders. Funding is for 20 intersections per year at \$7,500. per intersection.

10. Priority Bike Lane Striping Project: \$223,200

This project involves the implementation of the City of Raleigh top 25 bicycle lane striping and restriping projects per the Comprehensive Bicycle Transportation Plan.

11. Sidewalk Improvements: \$2,250,000

Construct new sidewalks along thoroughfares and other public streets based on two methods of submittal: 1) the recommendation of evaluated and prioritized streets by the Sidewalk Program criteria and submitted to City Council for approval, 2) by petition projects as requested by citizens and submitted to City Council for approval.

12. Sidewalk Repairs: \$100,000

This is funding for sidewalk repairs as approved by the City Council. Most repair costs are assessed to the adjoining property owners.

13. Six Forks Road Sidewalks: \$96,600

This project includes the construction of 5' sidewalks along Six Forks Road from Coleridge Dr. to Wake Forest Rd. The project includes the construction of a pedestrian bridge near Anderson Drive.

14. Thoroughfare Streetlight Installation: \$1,200,000

Provide streetlights for improved thoroughfares and Phase 1 CIP projects to address capital backlog of Streetlight Program.

15. Tryon Road Widening: \$150,000

These funds would provide the local match for new sidewalk construction associated with NCDOT TIP Project U-4432, which will replace the existing bridge at Tryon Road and the Norfolk-Southern Railroad.

16. Western-Hillsborough Sidewalks (B-4656): \$355,000

These funds would provide the local match for new sidewalk construction associated with NCDOT TIP Project B-4656, which will replace the existing flyover bridge at Western Boulevard and Hillsborough Street.

17. Wetland Mitigation and Delineation: \$100,000

This program will provide a separate fund for wetland mitigation and delineation associated with various future roadway/corridor projects throughout the city.

Transit1. Transit Equipment and Facilities: \$195,660 City Funding

This funding will provide for the city's share of replacement of capital equipment items associated with the operation of the Capital Area Transit System.

2. Bus and Van Replacement: \$2,187,500 City Funding

This funding will provide for the city share of replacement of buses and vans in the Capital Area Transit System which have reached their life expectancy.

3. Preventive Maintenance/Technology: \$2,125,000 City Funding

This is the city's share of costs associated with maintenance of fleet/service vehicles, buildings, and grounds at the Capital Area Transit as well as computer hardware/software.

4. Design/Engineering/Construction: \$240,000

This funding will provide for the city's share of design, engineering and technology in the Capital Area Transit System.

Parking Improvements1. Parking Deck Maintenance and Improvements: \$1,254,000

This is a program to improve and maintain all parking decks. The improvements include card readers and spitters for the Moore Square Deck, security cameras, and elevator replacement at the Cabarrus Deck.

2. Parking Meter Replacement: \$401,000

The scope includes new pay stations and single meter replacement. The downtown street metering area is bordered from Dawson to Blount to Lenoir, as well as Glenwood Ave from Hillsborough to Peace, and Hillsborough from Oberlin to Gardner. Contract for 193 Pay Stations to be completed with roll-out in February 2010.

3. Parking Deck Assessment & Repairs: \$345,000

Assessment of condition of parking decks and subsequent anticipated repairs. A consultant will be hired to perform the parking deck evaluation and provide an assessment of condition and recommendation for necessary repairs. The repairs will be made upon receipt of the consultant recommendations.

4. LED Lighting: \$1,272,835

To convert the existing lighting system to the LED lighting for all parking decks.

(*) = Includes 2005 Street Bond Proceeds

Phase II Transportation Projects

Major Streets

Tryon Road Part C: \$8,714,000

This project will widen Tryon Road to a four lane median divided roadway with curb and gutter, street lights and sidewalks on both sides Lake Wheeler Road to the Norfolk Southern Railroad Bridge.

Rock Quarry Road Widening- Part A: \$8,849,000

This project will widen the existing three lane segment of Rock Quarry Road between Star Sapphire Drive to Sunnybrook Road to a multilane section with curb and gutter, sidewalks and streetlights on both sides. This project includes widening the bridge over I-440.

Six Forks Road Widening: \$14,181,000

This project will widen Six Forks Road to a six lane median divided section with curb and gutter, sidewalks, and streetlights from Rowan Street to Sandy Forks Road.

Leesville Road Widening- Westgate to O'Neal: \$6,279,000

Widen Leesville Road to a four-lane divided section with curb and gutter and sidewalks on both sides between Westgate Road to O'Neal Road.

New Bern Avenue Improvements: \$4,565,000

This project involves the construction of curb and gutter, drainage, sidewalks, and streetlights on both sides of New Bern Avenue between Poole Road and Sunnybrook Road.

Street Improvements

Street Resurfacing: \$65,000,000

For ongoing program of routine street resurfacing.

Street Improvements and Petition Paving Projects: \$3,600,000

For paving dirt and other substandard streets as approved by City Council and in response to petitions for improvements.

Traffic Signal Installations: \$825,000

Provides funding for traffic signal installations on city system streets each year.

Traffic Calming and Pedestrian Safety: \$1,500,000

Funding for program for reducing speeds in residential areas.

Bridge Repair and Maintenance: \$625,000

This project will address necessary bridge repairs and provide maintenance for city-owned bridges. This funding will provide for addressing needs of 51 bridges on a gradual basis and will focus on the oldest with the most needs first.

Bicycle, Pedestrian and Planning Projects**ADA Curb Ramps:** \$875,000

Continued installation of curb ramps as needed for compliance with the Americans with Disabilities Act.

Advanced Planning Feasibility Studies: \$250,000

This program will fund engineering studies and environmental documentation/permitting for the multiple future thoroughfare corridors throughout the city.

Intersection Pedestrian Improvements: \$750,000

This funding will establish a program to improve pedestrian facilities at major intersections that have high numbers of pedestrians or transit riders. Improvements will include pedestrian refuge areas and pedestrian signals with push buttons.

Sidewalk Improvements: \$2,500,000

Continued funding for city-initiated and petition sidewalk projects approved by City Council.

Sidewalk Repairs: \$125,000

Funding to repair broken, cracked and uneven sidewalks

Wetland Mitigation and Delineation: \$125,000

This program will provide a separate fund for wetland mitigation and delineation associated with various future roadway/corridor projects throughout the city.

Transit**Preventive Maintenance/Technology:** \$1,600,000 City Funding

This is the city's share of costs associated with maintenance of fleet/service vehicles, buildings, and grounds at the Capital Area Transit as well as computer hardware/software.

Parking Improvements**Parking Deck Maintenance & Improvements:** \$1,000,000

This funding will provide for necessary assessment of condition of parking decks and subsequent repairs.

Parking Meter Replacement: \$1,600,000

The scope includes new pay stations and single meter replacement.

Parking Deck Assessment and Repairs: \$2,068,500

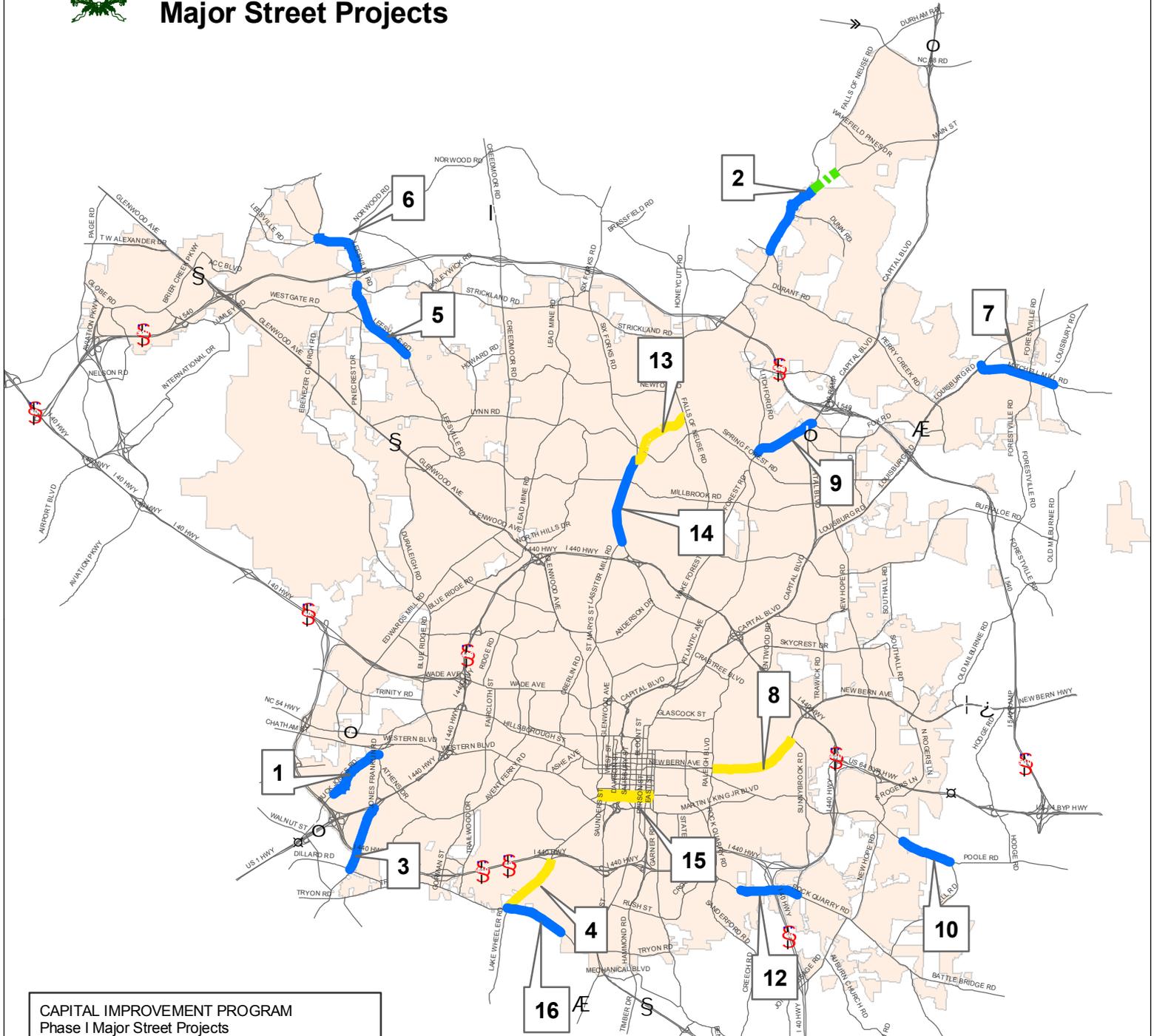
This funding will provide for necessary condition assessment and subsequent repairs on the city's off-street parking facilities.

LED Lighting: \$1,101,600

To convert the existing lighting system to the LED lighting for all parking decks.



City of Raleigh Public Works Department Major Street Projects



**CAPITAL IMPROVEMENT PROGRAM
Phase I Major Street Projects**

- 1 Buck Jones Road Widening
- 2 Falls of Neuse Road Realign and Widen
- 3 Jones Franklin Road Widening
- 4 Lake Wheeler Road Improvements
- 5 Leesville Road Widening, Westgate to O'Neal
- 6 Leesville Road Widening, I-540 North
- 7 Mitchell Mill Road Widening
- 8 New Bern Avenue Improvements
- 9 Old Wake Forest Road Widening
- 10 Poole Road Widening
- 12 Rock Quarry Road Widening, Part A
- 13 Sandy Forks Road Improvements
- 14 Six Forks Road Widening
- 15 South/Lenoir Two-Way Conversion, Part 2
- 16 Tryon Road, Part C

	Widening
	Improvements
	New Location
	Raleigh City Limits



Public Utilities

The public utilities program includes projects for the treatment and distribution of the city's drinking water supply; projects associated with the collection and treatment of wastewater; projects associated with the extension of both water and sewer service for service area growth; maintenance projects involving water and sewer mains, elevated water storage tanks, and pumping stations; and projects for the delivery of reused water that has been processed by the wastewater treatment plant. Phase I cost projections for all such projects totals \$329,869,500.

The Phase I public utilities program includes improvements to the various components of each of the program's delivery systems. Funding for public utilities capital projects is primarily provided through the issuance of revenue bonds. It is being proposed that Public Utilities sell a revenue bond in the amount of \$100,000,000 in January 2011 to fund both new projects identified in FY11 CIP requests as well as existing unfunded projects, and that future revenue bonds will be anticipated to address future project needs. Additional funding is provided by the Public Utilities operating fund, which also supports all debt service requirements for revenue bonds issued.

The table below provides a summary of utility costs for this Capital Improvement Program. A listing and brief description of the projects proposed for the five years following Phase I are provided at the end of the Public Utilities section. The Phase II funding shown below is described in the section immediately following the descriptions for Phase I projects.

Ten-Year Summary of the Public Utility Program

	PHASE I	PHASE II	TOTAL
Water Projects	\$ 85,728,500	\$ 253,338,000	\$ 339,066,500
Wastewater Projects	244,141,000	264,200,000	508,341,000
TOTAL	\$ 329,869,500	\$ 517,538,000	\$ 847,407,500

Project Costs and Funding Plan for Public Utilities

Water Projects		2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
1	3 MGD pump addition to Shelly Road PS	\$ -	\$ -	\$ 276,000	\$ -	\$ -	\$ 276,000
2	DEBWTP Settling Tank Waste Dewatering Facility	-	-	6,800,000	-	-	6,800,000
3	Elevated Water Tank Rehabilitation and Maint	500,000	500,000	500,000	500,000	500,000	2,500,000
4	EMJ WTP DAF Pilot Plant Facility	-	-	1,000,000	-	-	1,000,000
5	EMJ WTP New Laboratory Facility	-	-	-	4,500,000	-	4,500,000
6	EMJ WTP UV/Solids Handling	250,000	-	-	-	3,000,000	3,250,000
7	EMJ WTP Warehouse Expansion	1,000,000	-	-	-	-	1,000,000
8	EMJWTP Chemical Storage Tank Replacement	500,000	-	-	-	-	500,000
9	EMJWTP Clearwell Rehabilitation	750,000	-	-	-	1,100,000	1,850,000
10	EMJWTP Facility/Equipment Rehabilitation	500,000	500,000	500,000	500,000	500,000	2,500,000
11	EMJWTP Reservoir and Lagoon Sludge Removal	2,500,000	-	-	-	-	2,500,000
12	Falls Lake Hydroelectric Project	150,000	150,000	-	-	-	300,000
13	Falls Lake Initiative	1,000,000	1,500,000	1,500,000	1,500,000	1,500,000	7,000,000
14	Lake Glad Road Waterline Extension	-	325,000	-	-	-	325,000
15	Little River Res.Wetland Mitig. Property Acquis.	-	2,500,000	2,500,000	2,500,000	2,500,000	10,000,000
16	Little River Resv-Wake/City Land Acqu Reimb	500,000	500,000	500,000	500,000	500,000	2,500,000
17	Little River Reservoir Envir Impact Statement	1,225,000	1,000,000	1,000,000	800,000	-	4,025,000
18	Oak Forest 30" Water Main	-	-	-	-	2,900,000	2,900,000
19	Service Area Growth (Annex- Water)	150,000	1,000,000	1,000,000	1,000,000	1,000,000	4,150,000
20	Thoroughfare Mains	400,000	400,000	400,000	400,000	400,000	2,000,000
21	Wake Forest WTP Decommissioning	345,000	-	-	-	-	345,000
22	Water Booster Pump Station Rehabilitation	500,000	200,000	200,000	200,000	500,000	1,600,000
23	Water Distr WQ Program, Study, Eval & Design	150,000	150,000	150,000	150,000	500,000	1,100,000
24	Water Main Replacement/Rehab	2,750,000	4,000,000	4,000,000	4,000,000	4,000,000	18,750,000
	Water Main Replacement/Rehab(Water Rev Bond)	1,250,000	-	-	-	-	1,250,000
25	Water Plant Settling Basin Rehabilitation	-	800,000	400,000	-	-	1,200,000
26	Water Service Replacement	250,000	250,000	250,000	250,000	250,000	1,250,000
27	Zebulon Water Tank Rehabilitation	220,000	-	137,500	-	-	357,500
Subtotal, Water Projects		\$14,890,000	\$13,775,000	\$21,113,500	\$16,800,000	\$19,150,000	\$ 85,728,500

Project Costs and Funding Plan for Public Utilities

Wastewater Projects		2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
1	Conversion of Garner 201 Facility	-	4,200,000	-	-	-	\$ 4,200,000
2	Crabtree Basin Wastewater Conveyance Improv	4,000,000	17,000,000	39,000,000	-	-	60,000,000
3	Crabtree Lift Station Improvements	-	-	-	100,000	1,000,000	1,100,000
4	East Neuse Regional Pump Station & Force Main	-	-	1,500,000	-	13,400,000	14,900,000
5	Lower Crabtree North Sewer Main	-	500,000	-	-	-	500,000
6	Main Replacement	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	25,000,000
7	Neuse River Off-site Reuse System Expansion	-	500,000	500,000	500,000	500,000	2,000,000
8	Neuse River Pump Station Pump Addition	-	-	-	2,000,000	-	2,000,000
9	North Bank Crabtree Creek Replacement	8,000,000	-	-	-	-	8,000,000
10	NPDES Permit Renewals	-	150,000	-	-	-	150,000
11	NRWWTP 15 MGD Capacity Expansion	3,500,000	9,000,000	28,000,000	15,600,000	7,400,000	63,500,000
12	NRWWTP Facilities Improvement	650,000	-	-	-	-	650,000
13	NRWWTP Lab Improvements	-	-	-	-	600,000	600,000
14	Poplar Creek Interceptor	-	-	-	-	6,000,000	6,000,000
15	Sanitary Sewer Pump Station Removal/Rehab/Repl	500,000	500,000	500,000	500,000	500,000	2,500,000
16	Service Area Growth	250,000	2,000,000	2,000,000	2,000,000	2,000,000	8,250,000
17	Sewer System Capacity	200,000	200,000	450,000	200,000	200,000	1,250,000
18	Upper Pigeon House Rehabilitation	-	-	3,000,000	3,000,000	2,200,000	8,200,000
19	Wake Forest Richland Creek Interceptor Imprv	750,000	5,200,000	-	-	-	5,950,000
20	Wake Forest Smith Creek Interceptor Imprv	1,500,000	5,000,000	4,000,000	-	-	10,500,000
21	Walnut Creek/NRWWTP Influent Lift Station Imprv	-	500,000	2,000,000	-	-	2,500,000
22	Wendell Buffalo Creek Basin Sewer Improv	-	800,000	-	-	-	800,000
23	Wendell East Wake Sewer Costshare	-	-	-	3,300,000	-	3,300,000
24	Wendell Lake Glad Rd. Demolition	-	-	165,000	-	-	165,000
25	Wendell Marshburn Road Sewer Improvements	-	2,000,000	-	-	-	2,000,000
26	Wendell Sewer Collection System Improvements	2,700,000	-	-	-	-	2,700,000
27	Wendell Various Gravity Sewer Projects	-	150,000	250,000	900,000	-	1,300,000
28	Wendell West 64 Bypass Wastewater Service	-	1,826,000	-	-	-	1,826,000
29	Zebulon LCWWTP Expansion/Imprv (Phase I)	2,000,000	-	-	-	-	2,000,000
30	Zebulon LCWWTP Collection System Imprv	2,300,000	-	-	-	-	2,300,000

Subtotal, Wastewater Projects	\$ 31,350,000	\$ 54,526,000	\$ 86,365,000	\$ 33,100,000	\$ 38,800,000	\$ 244,141,000
Total Project Costs, Public Utilities	\$ 46,240,000	\$ 68,301,000	\$ 107,478,500	\$ 49,900,000	\$ 57,950,000	\$ 329,869,500

Project Costs and Funding Plan for Public Utilities

Program Funding Resources	2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
Public Utility Fund	\$ 3,500,000	\$ 15,000,000	\$ 30,000,000	\$ 30,000,000	\$ 32,000,000	\$ 110,500,000
Public Utilities Capital Reserves	-	1,000,000	1,000,000	1,000,000	1,000,000	4,000,000
Interest Income	500,000	-	-	-	-	500,000
Proposed Future Revenue Bonds	42,240,000	52,301,000	76,478,500	18,900,000	24,950,000	214,869,500
Total Funding Plan, Public Utilities	\$ 46,240,000	\$ 68,301,000	\$ 107,478,500	\$ 49,900,000	\$ 57,950,000	\$ 329,869,500

Phase I – Public Utilities

Water Projects

1. 3 MGD Pump Addition to Shelly Road PS: \$276,000

The water distribution system has nine separate pressure zones. Growth in water demand in these pressure zones necessitate upgrades to the pump stations that support these pressure zones. This project will provide an additional large service pump to address growth needs in the 605 pressure zone.

2. DEBWTP Settling Tank Waste Dewatering Facility: \$6,800,000

This project will develop a settling tank waste dewatering facility to handle all industrial wastes produced by the potable water treatment process. The resulting dewatered sludge will be trucked in thickened form to final disposal through composting or other environmentally beneficial uses

3. Elevated Water Tank Rehabilitation and Maintenance: \$2,500,000

Elevated water storage tanks throughout the utility system need refurbishment and maintenance because of storage tank age and service life projections.

4. E.M. Johnson WTP DAF Pilot Plant Facility: \$1,000,000

Construction and operation of a permanent pilot testing facility to demonstrate high rate coagulation for future plant upgrades to 120 MGD. The pilot evaluations are required to demonstrate that performance of high rate coagulation (DAF or Plate Settling) and associated processes will provide for water quality that will consistently meet SDWA standards for future plant upgrades.

5. E.M. Johnson WTP New Laboratory Facility: \$4,500,000

Construct a new facility for laboratory operations.

6. E.M. Johnson WTP UV/Solids Handling: \$3,250,000

This project is Phase 3 of the E.M. Johnson Water Treatment Plant expansion to 120 MGD. This project includes the construction of a new ultraviolet radiation disinfection facility, improved solids handling facilities to address higher waste flows from an expanded plant capacity, and miscellaneous civil engineering work.

7. EM Johnson WTP Warehouse Expansion: \$1,000,000

The additional 8,000 sq.ft. of warehouse storage area will include an area for hazardous chemical storage, offices, conference/drawing room and O&M Manual library for warehouse and plant personnel. The project will include a fire suppression system for the existing warehouse and a new loading dock to serve the enlarged warehouse structure.

8. E.M. Johnson WTP Chemical Storage Tank Replacement: \$500,000

Replacement of Bulk Chemical Storage Tanks at the EMJWTP.

9. E.M. Johnson WTP Clearwell Rehabilitation: \$1,850,000

Clean and repair the clearwells and construct baffles in the existing clearwells.

10. E. M. Johnson WTP Facility and Equipment Rehabilitation: \$2,500,000

Rehabilitation and/or replacement of major equipment and associated facilities at the EM Johnson Water Treatment Plant. This includes 3rd floor expansion for additional office space.

11. E.M. Johnson WTP Reservoir and Lagoon Sludge Removal: \$2,500,000

Removal and disposal of sludge and sediment from the EMJ water plant lagoon and raw water reservoir.

12. Falls Lake Hydroelectric Project: \$300,000

Development of a hydroelectric facility at the Falls Lake Dam discharge to generate sustainable energy. The initial phases of the project include legal and technical assistance to evaluate feasibility, prepare a

competitive application and obtain a FERC license to construct and operate the facility. Funding for design and construction will be programmed once the feasibility and licensing have been determined.

13. Falls Lake Initiative: \$7,000,000

Funding to provide monetary resources to help support water quality initiatives and the Conservation Trust of North Carolina for expanding land protection in the Falls Lake watershed.

14. Lake Glad Road Waterline Extension: \$325,000

This funding is for construction of 4,300 LF of 6" and 8" water line along Lake Glad Road. This item was identified in the merger document.

15. Little River Reservoir Wetland Mitigation Property Acquisition: \$10,000,000

Wetland Mitigation through property or conservation easement purchases

16. Little River Reservoir County Reimbursement: \$2,500,000

Wake County, in partnership with the City of Raleigh and the utility merger municipalities, has worked for many years to acquire the land necessary for the construction of the Little River Reservoir in Eastern Wake County. Because of the jurisdictional issues, Wake County has managed all land acquisition. This line item is an annual repayment of 500,000 until the land acquisition costs are repaid.

17. Little River Reservoir Environmental Impact Statement: \$4,025,000

An Environmental Impact Statement (EIS) is required for obtaining state permits for the design and construction of an impoundment for a new raw water supply for the City of Raleigh. Due to the projected population growth in the service area, an additional water supply is needed.

18. Oak Forest 30" Water Main (Atlantic Ave. to Capital Blvd.): \$2,900,000

Installation of approximately 6,700 LF of 30-inch water main from Atlantic Avenue to Capital Boulevard for the purpose of meeting addition water flow demands based upon growth in the potable water distribution system.

19. Service Area Growth: \$4,150,000

The city annexes areas that reach levels of development appropriate for municipal services when authorized by City Council. This funding pays for extending water service to households and businesses in newly annexed areas and is estimated for the next five year period.

20. Thoroughfare Mains: \$2,000,000

This funding will continue the program to install water mains in construction of new thoroughfare projects and adjustment to existing water mains in thoroughfare widening projects.

21. Wake Forest WTP Decommissioning: \$345,000

Demolition, waste disposal and other miscellaneous costs associated with closing the GG Hill WTP in Wake Forest, in accordance with the Wake Forest Utility Merger Agreement.

22. Water Booster Pump Station Rehabilitation: \$1,600,000

Install weatherproof enclosure for existing MCC, provide enclosure and maintenance platform for existing generator and extend access road at Shelley Road Booster Pump Station. Replace existing gas operated pump, associated underground fuel storage tank and install emergency generator at North Hills Booster Pump Station. Replace 9 MGD pump at Pullen Park Booster Pump Station and complete misc. facility upgrades at Wade Avenue Booster Pump Station.

23. Water Distribution Water Quality Program, Study, Evaluation & Design: \$1,100,000

Conducting corrosion control, nitrification and nutrient reduction studies, developing a water line rehabilitation/replacement program, preliminary design for elevated storage tank mixing improvements and development of a uniform directional flushing program.

24. Water Main Replacements and Rehabilitation: \$20,000,000 (\$18,750,000 bond, \$1,250,000 Pay-Go)
The City of Raleigh utility service area encompasses the City proper and the extended services areas of Garner, Rolesville, Wake Forest, Knightdale, Wendell and Zebulon. The total length of the water distribution system is over 2300 miles. The original water distribution system for many communities in Wake County dates back to the beginning of the 20th century, making a significant portion of the water distribution system over 50-years old. Most professional utility organizations recommend a replacement rate of 1-2% per year for water distributions systems. That would translate into the replacement of 20 miles per year. A gradual increase in expenditures is expected.

25. Water Plant Settling Basin Rehabilitation: \$1,200,000
Re-grout and repair deteriorated concrete in the remaining three settling and flocculation basins that were built in the second expansion of the water plant 20 years ago.

26. Water Service Replacement: \$1,250,000
This project would focus on the rehabilitation of service lines that are in need of replacement but the water distribution mains they are connected to do not need immediate replacement. Staff estimates that 6,000 service lines are comprised of older material such as galvanized iron and are in need of replacement to preserve water quality.

27. Zebulon Water Tank Rehabilitation: \$357,500
This CIP item is for the cleaning and inspection of the Greenpace Road one million gallon elevated storage tank in and the exterior painting of that tank.

Wastewater Projects

1. Conversion of the Garner 201 Facility: \$4,200,000
The project will convert the wastewater treatment plant to an irrigation site to allow for the disposal of process reject water from the D.E. Benton water treatment plant. Conversion may include the installation of high density Polyethylene lagoon liner and clearing and grubbing the wooded spray field area to facilitate spray irrigation of process reject water.

2. Crabtree Basin Wastewater System Conveyance Improvements: \$60,000,000
This project includes the construction of approximately 40,000 linear feet of 54-inch, 60-inch, and 72-inch parallel gravity sanitary sewer interceptor along Crabtree Creek from Mine Creek to the Crabtree Lift Station (located at the Hwy 264/I440 interchange) and construction of additional wet well at the existing Crabtree Lift Station. Phase I - Gravity Interceptor from Crabtree Lift Station to Capital Blvd. with wet well addition at Crabtree Lift Station (FY12). Phase II - Gravity Interceptor from Capital to Mine Creek (FY13).

3. Crabtree Lift Station Improvements: \$1,100,000
Rehabilitate the augers to extend the life and maintain efficiency of the lift station.

4. East Neuse Regional Pump Station and Force Main: \$14,900,000
Construction of a new pump station on the east bank of the Neuse River at the confluence of Poplar Creek and the Neuse River across from the Neuse River WWTP. This new pump station will pump a peak one hour flow rate of 89 MGD with five 20 MGD pumps. The purpose of this pump station will convey flow from the Neuse basin and Walnut Creek basin to the Neuse River WWTP. This construction will require a new force main. This force main will consist of 2,500 linear feet of 48-inch parallel lines that will convey 107 MGD peak flow.

5. Lower Crabtree Creek North Sewer Main: \$500,000
Installation of approximately 6,300 LF of 8-in sewer main from the Turf Grass and Kingsborough Pump Stations to the Neuse River Interceptor on the north side of Crabtree through Anderson Point Park. This will provide gravity service to other areas along north side of Crabtree Creek.

6. Main Replacement: \$25,000,000

This funding will continue the program to replace under-sized and deteriorated sanitary sewer collection mains and services. The program will concentrate on rehabilitation or replacement in older areas of the city, such as inside the beltline.

7. Neuse River Off-site Reuse System Expansion: \$2,000,000

Continued expansion of the Neuse River Wastewater Treatment Plant off-site reuse system expansion. Project scope includes reuse distribution mains, pump stations, and other reuse distribution components necessary for the expansion of the system in accordance with the Reuse Master Plan.

8. Neuse River Pump Station and Pump Addition: \$2,000,000

Installation of a fourth pump and replacement of the existing generator to accommodate the added load due to the fourth pump. This will provide for future growth in this portion of the service area.

9. North Bank Crabtree Creek Interceptor Replacement: \$8,000,000

This project involves the replacement or rehabilitation of approximately 29,500 LF of 30 and 36-inch sanitary sewer line between Raleigh Boulevard and Glenwood Avenue along the north bank of Crabtree Creek because of age and hydraulic loading.

10. NPDES Permit Renewals: \$150,000

Permitting the discharges associated with the EM Johnson WTP, Neuse River WWTP, Smith Creek WWTP and Little Creek WWTP. The City's water and wastewater treatment plants utilize a NPDES (National Pollutant Discharge Elimination System) permit to discharge process wastewater. This project would engage engineering services to seek renewal of this permit.

11. Neuse River WWTP 15 million gallons per day Capacity Expansion: \$63,500,000

Construction of additional waste treatment facilities at the Neuse River WWTP to increase the treatment capacity of the facility from 60 MGD to 75 MGD, necessary due to anticipated growth in service area.

12. Neuse River WWTP Facilities Improvement: \$650,000

Renovate the existing filter and administrative building at the NRWWTP. Renovation will include the replacement of windows, HVAC system, ceiling, instrumentation, and several other items that are in dire need of renovating. Filter Building Renovation funded in FY11.

13. Neuse River WWTP Lab Improvements: \$600,000

Expansion and upgrading the laboratory facility at the NRWWTP in accordance with the Hazen & Sawyer lab study.

14. Poplar Creek Interceptor: \$6,000,000

Construct a new 36/42 inch interceptor from the East Neuse Regional Pump Station located near the confluence of the Neuse River and Poplar Creek to the Knightdale Poplar Creek interim pump station at Poole Road in FY12.

15. Sanitary Sewer Pump Station Removal, Repair, and Replacement: \$2,500,000

Extension of gravity sanitary sewer mains to eliminate sanitary sewer pump stations. This item also includes rehabilitation or replacement of deteriorated pump station facilities.

16. Service Area Growth: \$8,250,000

The city annexes areas that reach levels of development appropriate for municipal services when authorized by City Council. This funding reflects the sewer service extensions associated with the annexation plan for the next five years.

17. Sewer System Capacity Analysis: \$1,250,000

This funding will continue the program to collect data and model the sanitary sewer collection system. This data provides information on the existing sewer collection system which is utilized to evaluate

available system capacity and to guide future system improvements. This is a Capacity, Management, Operations, and Maintenance recommendation.

18. Upper Pigeon House Rehabilitation/Replacement: \$8,200,000

This project is the rehabilitation and/or replacement of approximately 10,000 feet of 24-inch sewer main along Upper Pigeon Creek from Fenton street to near Peace St. as identified in the Preliminary Engineering Report prepared by Stearns & Wheeler. This project will be implemented in three phases.

19. Wake Forest Richland Creek Interceptor Improvements: \$5,950,000

Parallel 30" or equivalent replacement pipe of the Richland Creek Sanitary Sewer Interceptor from Durham Rd. to Capital Blvd. This project is in the Wake Forest service area. Project is a result of the Inflow & Infiltration Study that was performed for the Wake Forest service area as identified in the merger agreement.

20. Wake Forest Smith Creek Interceptor Improvements: \$10,500,000

Parallel 30" or equivalent replacement of the Smith Creek Sanitary Sewer Interceptor (SCSSI) from the Smith Creek Wastewater Treatment Plant to Lagerfeld Rd., parallel 24" or equivalent replacement of the SCSSI from Lagerfeld Rd. to Heritage Height, and parallel 16" or equivalent replacement of the SCSSI from Heritage Height to Franklin St. Project is a result of the Inflow & Infiltration Study that was performed for the Wake Forest service area as identified in the merger agreement.

21. Walnut Creek/Neuse River WWTP Influent Lift Station Pumps: \$2,500,000

This project is a continuation of multiple upgrades and expansions at the Walnut Creek and NRWTP Influent Lift Stations.

22. Wendell Buffalo Creek Basin Sewer Improvements: \$800,000

Construction of a new pump station and force main along Buffalo Creek near the county line to discharge into the Lake Glad Road facility. The proposed pump station size was 1220 GPM pumping through 6,200 LF of new 12" force main. This was listed as a Wendell CIP item adopted in the merger agreement.

23. Wendell East Wake Sewer Cost Share: \$3,300,000

This is Wendell's portion of the cost share for the Wendell Falls pump station and force main along Poole Road from Lake Myra to the Poplar Creek interceptor. Also included in this estimate is for 5,760 LF of 12" gravity sewer extension in the upper Marks Creek basin and upsizing of 16,400 LF of gravity interceptor through Wendell Falls. This was listed as a Wendell project adopted in the merger agreement.

24. Wendell Lake Glad Road Demolition: \$165,000

Demolition of the Lake Glad Road Aeration basins (2) and extension of the aerial gravity sewer line and splitter box. This was listed as a Wendell project adopted in the merger agreement.

25. Wendell Marshburn Road Sewer Improvements: \$2,000,000

Construction of a new pump station along Marshburn Road near Little River discharging to the gravity sewer at Hanor Lane. The proposed pump station was sized at 700 GPM pumping through 5,000 LF of new 10" force main. This was listed as a Wendell CIP item adopted in the merger agreement.

26. Wendell Sewer Collection System Improvements: \$2,700,000

Design and construction for the Wendell Sewer Collection System to rehabilitate existing sewer lines, manholes, pump stations.

27. Wendell Various Gravity Sewer Projects: \$1,300,000

Gravity sewer extensions were identified in the merger agreement over the next several years. They are the Wendell Park gravity sewer to the Buffalo Interceptor in '10 (1,000 LF of 8" gravity sewer), the Lake Glad Road sewer extension from Wellington Pump Station in '11 (2,000 LF of 8" gravity sewer), the Old Wilson Road extension (3,035 LF of 8" gravity sewer), the Lizard Lick Interchange sewer (1,700 LF of 8" gravity sewer), and the Old Zebulon Road sewer extensions (3,000 LF of 8" gravity sewer) in '12.

28. Wendell West 64 Bypass Wastewater Service: \$1,826,000

Construction of 4,000 LF of 8" gravity sewer along the north side of US 64(bus) from Rolesville Road to a new pump station constructed near the intersection of Keiths Road and US 64 (bus). Pump station will be a duplex vacuum prime station sized to deliver 320 gpm. 8,500 LF of force main will be constructed along US 64 (bus) eastward the Buffalo Creek Interceptor. Cost estimate by McKim and Creed.

29. Zebulon Little Creek WWTP Expansion/Improvements (Phase I): \$2,000,000

The project is a re-rating of the Little Creek Wastewater Treatment Plant from 1.85 MGD to 4.0 MGD and is phase I of the planned expansion of this facility. The project includes improvements to influent lift pumps, grit removal system, biosolids removal, anoxic mixed liquor suspension units and odor control systems. New filters to remove nutrients and covers for the aerobic digesters, sludge holding tanks and influent structure are also included in the project. A new generator will be added that will accept the entire plant load and a new aerobic digester for batch processing will be added. The project is a composite of merger projects WWT01, 03, 06, 09 and 14. FY11 Funding is to provide flow equalization to the plant.

30. Zebulon Little Creek WWTP Collection System Improvements: \$2,300,000

Design and construction for the Zebulon Sewer Collection System to rehabilitate existing sewer lines, manholes, pump stations.

Phase II Public Utilities Projects**Water Projects****Elevated Water Tank Rehabilitation and Maintenance: \$5,000,000**

Elevated water storage tanks throughout the utility system need refurbishment and maintenance because of storage tank age and service life projections.

E.M. Johnson WTP UV/Solids Handling: \$35,100,000

This project is Phase 3 of the E.M. Johnson Water Treatment Plant expansion to 120 MGD. This project includes the construction of a new ultraviolet radiation disinfection facility, improved solids handling facilities to address higher waste flows from an expanded plant capacity, and miscellaneous civil engineering work.

E.M. Johnson WTP Chemical Storage Tank Replacement: \$250,000

Due to the corrosive nature of chemicals in storage, periodic replacement of aged bulk chemical storage tanks is required.

E.M. Johnson WTP Facility & Equipment Rehabilitation: \$3,750,000

Rehabilitation and/or replacement of major equipment and associated facilities at the EM Johnson WTP.

E.M. Johnson WTP Reservoir and Lagoon Sludge Removal: \$1,600,000

Removal and disposal of sludge and sediment from Raw Water Reservoir

Little River Reservoir Wetland Mitigation (property acquisition): \$12,500,000

As part of the State and Federal permit for the Little River Reservoir existing wetlands will be removed or otherwise impacted. This project will purchase additional property for the purpose of remediation and/or replacement of these wetlands.

Little River Reservoir Wake County Land Acquisition Reimbursement: \$2,500,000

Wake County purchased approximately 2,050 acres for approximately \$15,000,000 for the construction of the Little River Reservoir and Dam. The City of Raleigh plans to reimburse Wake County for the land acquisition with annual payments of \$500,000.

Service Area Growth: \$5,000,000

Estimated cost of extending water lines for projected annexation and service growth.

Thoroughfare Mains: \$2,000,000

Continuation of currently funded program to install water mains in the construction of new thoroughfare projects and make adjustments to existing water mains in thoroughfare widening projects.

Water Booster Pump Station Rehabilitation/Replacement: \$2,000,000

Rehabilitate or replace existing water booster pumping stations.

Water Distribution Program Study Evaluation & Design: \$500,000

Engineering field study of the existing water system performance, hydraulics, and related water quality modeling issues as well as subsequent computer modeling of the distribution system.

Water Main Replacements: \$25,000,000

Continuation of the program to replace and/or rehab undersized and deteriorated water mains in Raleigh.

Water Services Replacement: \$1,250,000

Continuation of the program to replace old existing water services that have deteriorated over time.

1 million gallons per day Pump Upgrade at Mt. Herman: \$280,000

Installation of a 1 MGD pump at the Mt. Herman Road Water Booster

Bain Pump Station Upgrade: \$70,000

Replacement of existing water booster pumps.

Bethlehem Road Transmission Main 16-inch: \$839,000

Construction of a 1.0 million gallon elevated water storage tank

Clifford Road Transmission Main 24-inch: \$1,189,000

Install approximately 5,530 linear feet of 24-inch water transmission main along Clifford Road from New Bethel Church Road to Hebron Church Road.

Control Valve Installation at Wendell Boulevard: \$130,000

Install a Control Valve at the existing connection between the 462 pressure zone and the 497 pressure zone to allow limited water transfer for water quality purposes.

D.E. Benton WTP Water Transmission Main: \$12,000,000

Construction of approximately 41,594 linear feet of 30-inch diameter water transmission main along Walnut Creek from the old EB Bain WTP to Poole Road.

E.M. Johnson WTP Flocculation Sedimentation Basin Additions: \$38,500,000

This project is Phase 2 of the E.M. Johnson Water Treatment Plant expansion to 120 MGD. This project involves flocculation and sedimentation basin improvements to the existing basins and the installation of new rapid mix basins. Additionally, new raw water yard piping, chemical injection, site electrical and instrumentation/controls are needed as part of this project.

E.M. Johnson WTP Additional High Service Discharge Pipe: \$359,000

Installation of 1,300 linear feet of 30-inch transmission main on the E.M. Johnson Water Treatment Plant site to convey the higher flows generated by project B301.

E.M. Johnson WTP High Service Pump No.1 Upgrade: \$690,000

This project would upgrade pump number one (1) on the high service (605 Zone) at E.M. Johnson Water Treatment Plant. This upgrade would install a 15 MGD pump to support greater demand in the high service zone.

E.M. Johnson WTP Flocculation Sedimentation Basin Improvements: \$42,900,000

This project is Phase 2 of the E.M. Johnson Water Treatment Plant expansion to 120 MGD. This project involves flocculation and sedimentation basin improvements to the existing basins and the installation of new rapid mix basins. Additionally, new raw water yard piping, chemical injection, site electrical and instrumentation/controls are needed as part of this project.

E.M. Johnson WTP Ozone Expansion: \$24,500,000

Installation of a 4th Ozone Generator and associated Destructor.

Franklin Street Waterline 12-inch: \$133,000

Project Description: Install approximately 1,600 linear feet of 12-inch waterline along Franklin Street from Friendship Chapel Road to NC 98 Bypass.

Hebron Church Road Transmission Main 24-inch: \$970,000

Project Description: Install approximately 4,510 linear feet of 24-inch water transmission main along Hebron Church Road from Clifford Road to White Oak Road.

Jones Sausage Road Upgrade Under I-40: \$850,000

Install a 16-inch water line along Jones Sausage Road at the intersection of I-40.

Ligon Mill Road Waterline 12-inch: \$430,000

Install approximately 5,180 of 12-inch waterline along Ligon Mill Road from Margots Avenue to Burlington Mills Road.

Little River Reservoir Wetland Mitigation Construction: \$15,600,000

As part of the State and Federal permit for the Little River Reservoir, existing wetlands will be removed or otherwise impacted. This project will utilize the land purchase under to construct replacement wetlands.

Little River Reservoir Mitigation Monitoring: \$300,000

As part of the State and Federal permit for the Little River Reservoir, a monitoring program will be used to quantify the impact of mitigation associated with the reservoir construction.

NC 98 Bypass Waterline 12-inch: \$493,000

Install approximately 5,940 linear feet of 12-inch waterline along NC 98 Bypass from Jones Dairy Road to Franklin Street.

Oregon Trail Road Transmission Main 23-inch: \$1,219,000

Install approximately 5,670 linear feet of 24-inch water transmission main from the D.E. Benton WTP along Oregon Trail to New Bethel Church Road.

Poole Road Booster Pump Station (B102): \$2,800,000

Construction of a regional water booster pump station to replace the existing aging/undersized booster stations within the Wendell and Zebulon services areas.

Property Acquisitions: \$1,000,000

Acquire property for water main easements, booster pump stations, and elevated water tanks.

Rand Road Transmission Line 12-inch: \$1,029,000

Installation of approximately 12,400 linear feet of 12-inch water line along Rand Road in Garner from NC 50 to Ten Ten Road.

Remote Operations Center: \$900,000

To develop a satellite Operations Center site in the North Raleigh area.

Replace Springdale Tank: \$1,650,000

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.

Ten Ten Road Transmission Line 12-inch: \$432,000

Installation of approximately 5,200 linear feet of 12-inch water line along Ten Ten Road in Garner from Rand Road to Old Stage Road.

Ten Ten Road Water Tank: \$3,000,000

Construction of a new 1.0 MG elevated water storage tank in the vicinity of Ten Ten Road and Old Stage Road to support the increasing water demand of the 532 pressure zone.

VA Security Improvements: \$1,000,000

Improvements to the security measures at the EMJ WTP, elevated water tanks sites and other remote water facilities.

Wendell Boulevard Water Line from NC 97 to Cypress Street: \$1,449,000

Install approximately 11,978 linear feet of 16-inch water transmission line along Wendell Blvd. from NC 97 to Cypress Street.

Zebulon Water Line on NC 97: \$2,176,000

Install approximately 17,985 linear feet of 16-inch water transmission line along NC 97 from the intersection of Wendell Boulevard to Riverview Drive.

Wastewater ProjectsEast Neuse Regional Pump Station: \$15,000,000

Construction of a new pump station on the east bank of the Neuse River at the confluence of Poplar Creek and the Neuse River across from the Neuse River WWTP. This new pump station will pump a peak one hour flow rate of 89 MGD with five 20 MGD pumps. The purpose of this pump station will convey flow from the Neuse basin and Walnut Creek basin to the Neuse River WWTP. Phase II improvements provide additional wet well and pump capacity.

Sewer Main Replacements: \$35,000,000

Continuation of the program to replace undersized and deteriorated sanitary sewer collections mains and eliminate sewer pump stations.

Neuse River WWTP Off-site Reuse System Expansion: \$10,000,000

Continued expansion of the Neuse River Wastewater Treatment Plant off-site reuse system expansion. Project scope includes reuse distribution mains, pump stations, and other reuse distribution components necessary for the expansion of the system in accordance with the Reuse Master Plan.

Neuse River WWTP Facilities Improvements: \$1,400,000

Renovate the existing filter and administrative building at the NRWWTP. Renovation will include the replacement of windows, HVAC system, ceiling, instrumentation, and several other items that are in dire need of renovating. Filter Building Renovation is funded in FY 11. Existing Admin. Building is funded in FY 16.

Sanitary Sewer Pump Station Removal/Rehabilitation/Replacement: \$5,000,000

The planned removal of sewer pump stations by extending gravity sewer lines reduces operational and maintenance costs to the utility system. Routine repair and upgrading of necessary pump stations reduces the utility's exposure to sanitary sewer overflows. This project extends gravity sewer lines and removes, repairs, and replaces pump stations throughout the utility system.

Service Area Growth: \$10,000,000

Projected cost to the City to provide for the extension of sewer lines into projected annexation areas during the period encompassed by Phase II of the Capital Improvement Program.

Sewer System Capacity: \$750,000

This project will continue to collect data and model the sanitary sewer collection system. This analysis provides information on the existing sewer collection system which is utilized to evaluate available system capacity and to guide future system improvements.

Zebulon Little Creek WWTP Expansion/Improvements Phase I: \$30,000,000

The project is a re-rating of the Little Creek Wastewater Treatment Plant from 1.85 MGD to 4.0 MGD and is phase I of the planned expansion of this facility. The project includes improvements to influent lift pumps, grit removal system, biosolids removal, anoxic mixed liquor suspension units and odor control systems. New filters to remove nutrients and covers for the aerobic digesters, sludge holding tanks and influent structure are also included in the project. A new generator will be added that will accept the entire plant load and a new aerobic digester for batch processing will be added. The project is a composite of merger projects WWT01, 03, 06, 09 and 14. FY11 Funding is to provide flow equalization to the plant.

Access to Sanitary Sewer Mains: \$1,000,000

This project will clear easements, install driveways and purchase access easements throughout the system.

Crabtree Valley Sewer Replacement: \$22,600,000

Repair and replace 6,000 LF of sanitary sewer main from Glenwood Avenue to Hare Snipe Creek.

Debris Drying Pads: \$1,000,000

Construction of concrete pads for drying of flush truck debris from pump stations and the wastewater collection system. Additional pads will be constructed at the existing debris drying facility off of Old Williams Rd. and at an undetermined location in Wake Forest.

Lower Walnut Creek Interceptor Parallel: \$25,000,000

This project includes installation of a new junction box to divert flow from existing interceptors to new parallel pipe. The project also includes installation of 17,000 feet of 48-inch parallel pipe (or 72-inch replacement pipe) from the softball field junction box (MH 106042) to the siphon junction box upstream of Walnut Creek PS (MH 106337).

Neuse River East Parallel Interceptor Phase III: \$3,500,000

Installation of 21,000 linear feet of 96-inch gravity sanitary sewer main from the Walnut Creek Lift Station off Barwell Rd. to the proposed East Neuse Regional Pump Station.

Neuse River East Parallel Interceptor Phase IV: \$1,500,000

Installation of 7,000 linear feet of 84-inch gravity sanitary sewer main from the Walnut Creek Lift Station off Barwell Rd. to the existing Neuse River Pump Station at Anderson Pointe Park off of Rogers Lane.

Neuse River WWTP Onsite Reuse Improvements: \$5,000,000

Installation of additional spray irrigation facilities for the NRWWTP farm agricultural fields.

Neuse River WWTP Anaerobic Digestors: \$52,000,000

Construction of 2-3.25MG egg shaped anaerobic digester at the NRWWTP.

Neuse River WWTP Dewatering and Sludge Dryer: \$35,000,000

Expansion of the NRWWTP Biosolids Dewatering Facilities and the addition of a Sludge Dryer. The new dewatering facilities and sludge dryer will be fed from the new anaerobic digesters that will be installed at the plant in 2016.

Neuse River WWTP Instrumentation Improvements: \$500,000

Annual replacement of aging and obsolete electronic process control equipment. The vast majority of plant process controls are monitored and maintained by digital electronic equipment. All electronics have a fixed operational life and must be upgraded or replaced on a regular basis.

Neuse River WWTP Land Purchase: \$1,000,000

Purchase of additional property adjacent to the NRWWTP for biosolids application and additional buffers.

Residential Backwater Valve Program: \$500,000

Install backwater valves on residential sewer services that meet the established requirements in order to avoid property damage and the resulting insurance claims caused by sewer back-ups into homes.

Walnut Creek Interceptor Tributaries Rehabilitation/Replacement: \$2,500,000

To prevent instances of overflows, existing sewer mains that warrant maintenance will be repaired or replaced. Project provides for maintenance work on sewer lines along major tributaries of Walnut Creek.

Wendell Green Willow Pump Station Upgrade: \$200,000

Project would increase the pump capacity to 285 GPM and rehabilitate the wet well.

Wendell Highway NC 97 Gravity Sanitary Sewer: \$700,000

Extension of 6,300 LF of gravity sewer along NC Highway 97 northeast to the Lizard Lick Area.

Wendell Wellington Sewer Basin Improvements: \$1,400,000

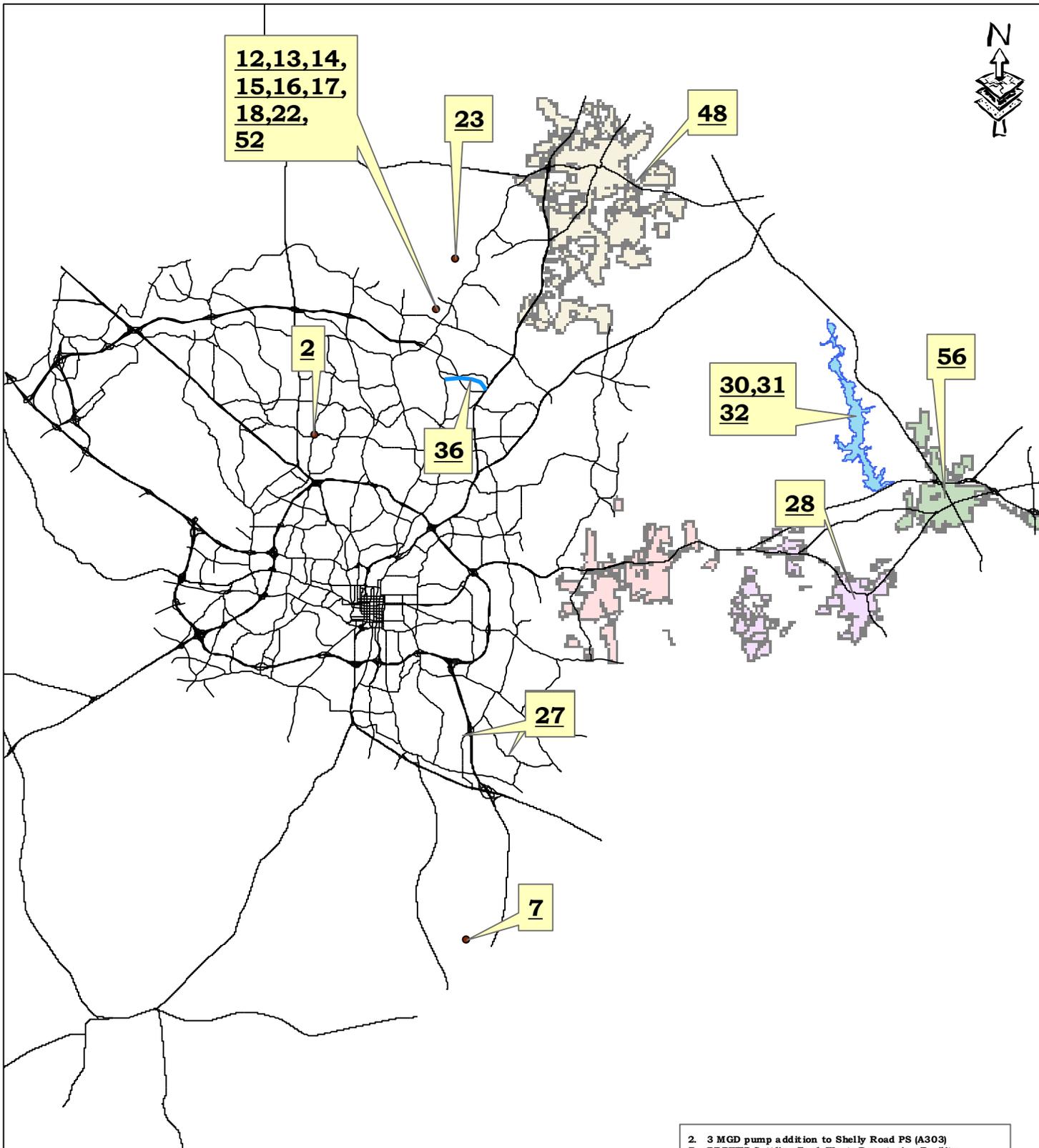
Gravity sewer extensions were identified in the merger agreement over the next several years. One is the Lake Glad Road sewer extension from Wellington Pump Station in '13 (2,000 linear feet of 8" gravity sewer). This was one of the projects listed in the merger document as WW09, WW10, WW12, WW13, and WW14.

Wendell Whitley Way Pump Station and Force Main Improvements: \$750,000

Upgrade of the existing Whitley Way pumpstation to deliver 430 gpm through 10,200 LF of new 8-inch force main.

Zebulon Little Creek WWTP Biosolid Improvements: \$2,900,000

This project would add an additional digester for batching the aerobically digested biosolids and then sending to biosolids to the holding tank for post digestion thickening. This would allow staff to complete a 30 day VSR test prior to sending biosolids to the holding tanks where it will be blended with other batches. Project would also include the replacement of the existing bar screen system with fine screen (3-5 mm) technology that will fit into the existing influent structure and work with existing hydraulics. Discharge into a new compactor to dry grit prior to discharge into dumpster. Identified by WWT10 and WWT05.



**12,13,14,
15,16,17,
18,22,
52**

23

48

2

36

**30,31
32**

56

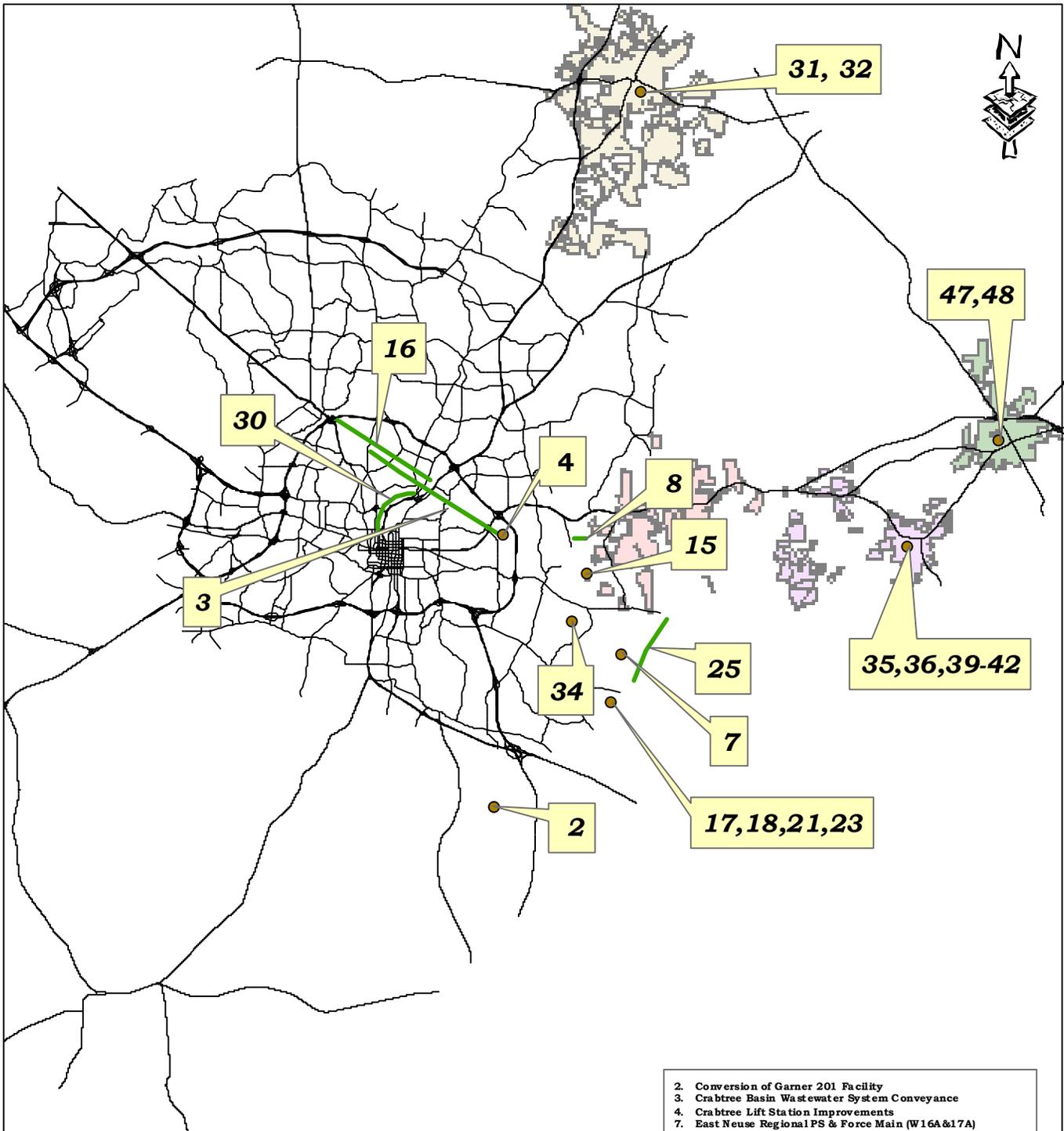
28

27

7

**City of Raleigh
Public Utilities Department
Water Projects
2011-2015**

- 2. 3 MGD pump addition to Shelly Road PS (A303)
- 7. DEBWTP Settling Tank Waste Dewatering Facility
- 12. EMJ WTP DAF Pilot Plant Facility
- 13. EMJ WTP New Laboratory Facility
- 14. EMJ WTP UV\Solids Handling
- 15. EMJ WTP Warehouse Expansion
- 16. EMJ WTP Chemical Storage Tank Replacement
- 17. EMJWTP Clearwell Rehabilitation
- 18. EMJWTP Facility/Equipment Rehabilitation
- 22. EMJWTP Reservoir and Lagoon Sludge Removal
- 23. Falls Lake Hydro Electric Project
- 27. Jones Sausage Road Upgrade Under I-40
- 28. Lake Glad Road Waterline Extension
- 30. Little River Res. Wetland Mitig. Property Acquis.
- 31. Little River Reserv. Wake City Land Acq. Reimbursement
- 32. Little River Reservoir Environmental Impact Statement
- 36. Oak Forest 30" water Main (Atlantic Ave. to Capital Blvd.)
- 48. Wake Forest WTP Decommissioning
- 52. Water Plant Setting Basin Rehabilitation
- 56. Zebulon Water Tank Rehabilitation



**City of Raleigh
Public Utilities Department
Sewer Projects
2011-2015**

- 2. Conversion of Garner 201 Facility
- 3. Crabtree Basin Wastewater System Conveyance
- 4. Crabtree Lift Station Improvements
- 7. East Neuse Regional PS & Force Main (W16A&17A)
- 8. Lower Crabtree North Sewer Main
- 15. Neuse River Pump Station Pump Addition
- 16. North Bank Crabtree Creek Replacement
- 17. NPDES Permit Renewals
- 18. NRWWTP 15 MGD Capacity Expansion (Includes W15A)
- 21. NRWWTP Facilities Improvements
- 23. NRWWTP Lab Improvements
- 25. Poplar Creek Interceptor
- 30. Upper Pigeon House Rehabilitation (Portion of C8)
- 31. Wake Forest Richland Creek Interceptor Improvements
- 32. Wake Forest Smith Creek Interceptor Improvements
- 34. Walnut Creek/NRWWTP Influent Lift Station Improvements
- 35. Wendell Buffalo Creek Basin Sewer Imps.
- 36. Wendell East Wake Sewer Costshare
- 39. Wendell Lake Glad Rd. Demolition
- 40. Wendell Marshburn Road Sewer Improvements
- 41. Wendell Sewer Collection System Improvements
- 42. Wendell Various Gravity Sewer Projects
- 47. Zebulon LCWWTP Expansion/Improvements (Phase I)
- 48. Zebulon LCWWTP Collection System Improvements



Parks and Recreation Program

The Parks, Recreation and Greenway element of the City of Raleigh's Comprehensive Plan is the document that guides park development, level of service and land acquisition. The parks capital program consists of the acquisition of new park and greenway properties, development of existing park sites, and the maintenance and improvement of various park facilities. Phase I funding for the parks program totals \$50,411,221 which includes previously authorized bond proceeds allocated to specific projects as shown herein. Phase II funding of this program consists of a continued investment in the improvements in existing parks, continued resources to acquire new park and greenway land and the funding for the planning, design and development of new facilities.

Major funding sources for projects scheduled in Phase I of the program include facility fees, sales tax revenue, and existing bond proceeds. A \$47 million Parks, Recreation & Greenway bond package was approved in referendum in October, 2003 and an \$88.6 million bond package was approved in 2007. The final 2003 bond projects were funded in FY09, and first year funding for several 2007 bond projects was initiated. The 10 year Parks & Recreation CIP reflects the final two years of the 2007 bond and an absence of bond funding in years three through five of Phase I. There exists a demonstrated need for additional bond funding prior to the end of Phase I of this CIP. Phase II funding levels also increase significantly representing projects that have been forecast for the next bond referendum.

The table below contains a summary of Parks program expenditures included in this edition of the Capital Improvement Program.

Ten-Year Summary of the Parks and Recreation Program

	PHASE I	PHASE II	TOTAL
Parks and Recreation Acquisition	\$ 1,000,000	\$ 27,500,000	\$ 28,500,000
Development Projects	14,760,000	150,845,000	165,605,000
2007 Park Bond	34,651,221	-	34,651,221
TOTAL	\$ 50,411,221	\$ 178,345,000	\$ 228,756,221

Project Costs and Funding Plan for Parks and Recreation Program

Parks and Recreation Acquisition		2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
1	Park Site Acquisition	\$ -	\$ 50,000	\$ 100,000	\$ 150,000	\$ 200,000	\$ 500,000
2	Greenway Acquisition	-	50,000	100,000	150,000	200,000	500,000
Subtotal, Acquisition		\$ -	\$ 100,000	\$ 200,000	\$ 300,000	\$ 400,000	1,000,000

Development Projects		2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
1	Greenway Development	\$ -	\$ 50,000	\$ 100,000	\$ 125,000	\$ 150,000	\$ 425,000
2	Building Improvements	255,000	265,000	200,000	250,000	300,000	1,270,000
3	Park Site Improvements	100,000	180,000	200,000	200,000	250,000	930,000
4	Playground Improvements	45,000	50,000	50,000	75,000	100,000	320,000
5	Tennis Court Upgrades	-	25,000	62,000	65,000	65,000	217,000
6	Parks Roof Repairs	80,000	100,000	125,000	125,000	125,000	555,000
7	Parks Paving Program	40,000	50,000	50,000	75,000	100,000	315,000
8	Field Fencing	-	25,000	40,000	50,000	50,000	165,000
9	Park Lighting	75,000	100,000	125,000	150,000	150,000	600,000
10	Parks Irrigation Projects	-	-	25,000	25,000	25,000	75,000
11	Community Facility Upgrades	50,000	150,000	238,000	300,000	350,000	1,088,000
12	Picnic Shelters	-	50,000	125,000	125,000	135,000	435,000
13	Aquatic Improvements	45,000	75,000	100,000	150,000	200,000	570,000
14	Greenway Trail Resurfacing	50,000	50,000	100,000	125,000	200,000	525,000
15	P&R Field Upgrades	-	15,000	50,000	50,000	50,000	165,000
16	P&R Electrical - Fields/Courts	-	25,000	75,000	75,000	75,000	250,000
17	Street Tree Replacement	-	25,000	75,000	75,000	75,000	250,000
18	Lead Paint/Asbestos Abatement	60,000	50,000	50,000	50,000	50,000	260,000
19	ADA Facility Upgrades	-	25,000	40,000	40,000	50,000	155,000
20	Carousel Animal Restoration	-	25,000	25,000	25,000	-	75,000
21	Multipurpose Field Renovation	-	25,000	35,000	25,000	25,000	110,000
22	Safety Compliance	20,000	35,000	35,000	35,000	50,000	175,000
23	Backflow Prevention	-	25,000	25,000	25,000	25,000	100,000
24	Raleigh Little Theatre Improvements	-	25,000	25,000	25,000	25,000	100,000
25	Mordecai Improvements	-	-	15,000	15,000	15,000	45,000
26	Lake Wheeler Replacement Deck	-	25,000	-	-	-	25,000

Project Costs and Funding Plan for Parks and Recreation Program

Development Projects		2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
27	Theater in the Park (TIP)	\$ -	\$ 20,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 95,000
28	Signage - Parks & Greenways	-	25,000	25,000	25,000	50,000	125,000
29	Volunteerism and Partnership	50,000	50,000	60,000	60,000	75,000	295,000
30	Historic Cemetery Restoration	-	15,000	25,000	25,000	25,000	90,000
31	Fayetteville Street Renovation Impacts	20,000	50,000	75,000	75,000	75,000	295,000
32	Moore Square Improvements	-	130,000	125,000	125,000	125,000	505,000
33	Maintenance Operations Facilities	-	50,000	75,000	75,000	75,000	275,000
34	Buffaloe Road Park	-	25,000	25,000	25,000	25,000	100,000
35	Camp Durant Nature Park Improvements	-	-	25,000	-	25,000	50,000
36	Greenway Bridge/Boardwalk Repairs	50,000	75,000	75,000	75,000	75,000	350,000
37	Latta House	-	-	75,000	-	-	75,000
38	Nash Square Improvements	-	25,000	-	25,000	25,000	75,000
39	Reused Water Line Extension	-	-	50,000	-	50,000	100,000
40	Pullen Park Improvements	45,000	50,000	-	-	-	95,000
41	Roof Runoff Collection	-	-	25,000	25,000	25,000	75,000
42	Solar Hot Water Heaters	-	-	50,000	50,000	50,000	150,000
43	Structure Repair and Replacement	50,000	75,000	75,000	75,000	75,000	350,000
44	Walnut Creek Softball Complex Improve	-	25,000	25,000	25,000	50,000	125,000
45	Wooten Meadows Master Plan	-	75,000	50,000	-	-	125,000
46	Alvis Farm	-	-	-	125,000	-	125,000
47	Comfort Station Improvements	-	25,000	125,000	150,000	150,000	450,000
48	Laurel Hills Master Plan Revision	-	100,000	-	-	-	100,000
49	Lions Park BMX Improvements	-	-	25,000	-	-	25,000
50	Milburnie Park	-	-	-	150,000	-	150,000
51	Milbrook Exchange Tennis Center	-	-	50,000	50,000	50,000	150,000
52	MLK Memorial Garden Expansion	-	50,000	50,000	50,000	-	150,000
53	Site Security	-	20,000	35,000	35,000	35,000	125,000
54	SW Raleigh Neighborhood Park	-	-	-	-	125,000	125,000
55	Thornton Road	-	100,000	-	-	200,000	300,000
56	Urban Forestry Standards	-	20,000	-	-	-	20,000
57	Drewry Hills	-	-	-	100,000	-	100,000

Project Costs and Funding Plan for Parks and Recreation Program

Development Projects		2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
58	Halifax Park Improvements	\$ 190,000	\$ -	\$ -	\$ -	\$ -	\$ 190,000
59	Parks Plan Update	75,000	125,000	-	-	-	200,000
Subtotal, Development Projects		\$ 1,300,000	\$ 2,600,000	\$ 3,160,000	\$ 3,650,000	\$ 4,050,000	\$ 14,760,000

2007 Park Bond Projects		2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
B51	Crabtree Crk. Ext East to Neuse	\$ 5,988,721	\$ -	\$ -	\$ -	\$ -	\$ 5,988,721
B55	Neuse River Greenway Completion	4,500,000	3,000,000	-	-	-	7,500,000
B56	Walnut Creek Greenway Ext. to Neuse River	2,700,000	-	-	-	-	2,700,000
B58	Barwell Road Park Development	150,000	1,550,000	-	-	-	1,700,000
B60	Pullen Park Carriageway Bridge	2,000,000	-	-	-	-	2,000,000
B61	Chavis Height Carousel Bldg Adaptive Reuse	500,000	-	-	-	-	500,000
B64	Mordecai Park Interpretive Center	1,412,500	-	-	-	-	1,412,500
B69	Lake Johnson Facility	2,350,000	-	-	-	-	2,350,000
B73	Land Acquisition - 2007 Park Bond	-	2,000,000	-	-	-	2,000,000
B74	NE Raleigh Community Center	5,500,000	-	-	-	-	5,500,000
B75	NE Raleigh Active Recreation Partnerships	1,000,000	-	-	-	-	1,000,000
B76	Unsatisfied Neighborhood Park Search Areas	1,000,000	1,000,000	-	-	-	2,000,000
Subtotal, 2007 Park Bond Projects		\$ 27,101,221	\$ 7,550,000	\$ -	\$ -	\$ -	\$ 34,651,221

Total Project Costs, Parks and Recreation \$ 28,401,221 \$ 10,250,000 \$ 3,360,000 \$ 3,950,000 \$ 4,450,000 \$ 50,411,221

Program Funding Resources		2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
	Park Facility Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	General Fund	900,000	2,200,000	2,810,000	3,350,000	3,850,000	\$ 13,110,000
	Interest Income	300,000	400,000	450,000	500,000	500,000	\$ 2,150,000
	Revolving Fund	100,000	100,000	100,000	100,000	100,000	\$ 500,000
	2007 Bond Proceeds	27,101,221	7,550,000	-	-	-	\$ 34,651,221
Total Funding Plan, Parks and Recreation		\$ 28,401,221	\$ 10,250,000	\$ 3,360,000	\$ 3,950,000	\$ 4,450,000	\$ 50,411,221

Phase I – Parks and Recreation Program

Parks and Recreation Acquisition

1. Park Site Acquisition: \$500,000

This funding is for acquisition of park land in areas that are deficient in parks and open space. The areas and priorities of potential park site acquisitions are identified in the Comprehensive Plan.

2. Greenway Acquisition: \$500,000

This funding is for acquisition of greenway land. The items funded include missing greenway segments, reimbursements for dedicated greenway easements that become available during development site plan approval procedures.

Development Projects

1. Greenway Development: \$425,000

Funds are for small greenway projects that are implemented by park staff and to supplement the major greenway projects approved by voters in bond referendums.

2. Building Improvements: \$1,270,000

Funding will target interior lighting upgrades, and boilers, gas packs, water fountains, and HVAC replacement. FY10-11: Carolina Pines HVAC Replacement.

3. Park Site Improvements: \$930,000

To provide funds for repairs/replacements to park grounds and certain non-structural facilities such as concrete and asphalt surfaces, grills, park benches, picnic tables, trash receptacles and other site furnishings to maintain current levels of service. Monies to be used for the phasing in of new park furnishings, and the purchase of construction-related materials needed to maintain the infrastructure in city parks.

4. Playground Improvements: \$320,000

This funding is for repairs/replacements of existing playground equipment and repair and/or replacement/replenishment of playground safety surfacing in order to comply with Consumer Product Safety Council Guidelines for Public Playgrounds and ASTM Standard 1487. Funds are utilized system-wide, with over 64 existing playgrounds and 6 new playgrounds to be constructed by the end of FY 2011.

5. Tennis Court Upgrades: \$217,000

Tennis courts are resurfaced on a five-year cycle to preserve the life of the court surface. There are 112 tennis courts in the city system.

6. Parks Roof Repairs: \$555,000

Roof repairs and replacements are scheduled based on consultant evaluations and recommendations at various facilities throughout the park system. FY10-11: Millbrook Exchange (gym and skylights roofing project)

7. Parks Paving Program: \$315,000

This is a continuing program to repair/replace existing paved areas, as well as the creation of new paved surfaces. These types of surfaces include paved walking trails in parks, interior roadways and parking lots, basketball court surfaces, sidewalks, etc. The identified locations are sites that have met and/or exceeded their life cycle. Damage and wear/tear can be attributed to use, adjacent environmental impacts (i.e. tree root intrusion), etc. This is identified via visual assessment by staff.

8. Field Fencing: \$165,000

Ongoing program to repair/replace fencing at ballfields, tennis courts and general park fencing. Process requires removal of existing and replacement with new according to the specifications identified by the department. Additional funding is requested on an annual basis to make substantial repairs to existing fencing that are beyond the funding capacity of the Parks Division operating budget. This would extend the current life cycle of existing installations.

9. Park Lighting: \$600,000

Funding to upgrade and replace the lighting system at ball fields, tennis courts, and parking lots. FY10-11: Brentwood (additional parking lot lighting)

10. Parks Irrigation Projects: \$75,000

This funding is for repairing/maintaining and upgrading automated irrigation systems.

11. Community Facility Upgrades: \$1,088,000

Funding is for interior/exterior painting, maintaining, repairing, replacing, and upgrading recreation center lighting, interiors, and facades.

12. Picnic Shelters: \$435,000

This funding is for replacing and upgrading existing shelters as well as constructing new shelters.

13. Aquatic Improvements: \$570,000

This funding is for general aquatic maintenance, including water treatment systems (filters and chemical feed systems) and maintenance of the pool, decks and supporting structures. FY10-11: Pullen Ductsox Replacement

14. Greenway Trail Resurfacing: \$525,000

Funding to resurface and repair older trail surfaces and structures to maintain a safe, smooth travel surface.

15. P&R Field Upgrades: \$165,000

The athletic field upgrades include the addition of concrete pads and walks for dugouts, scorer's table, and bleachers, as well as the purchase and installation of player's benches, scorer's table, scoreboards, and bleachers. The program includes the installation of covers for the dugout and scorer table areas, and permanent foul poles at all required fields.

16. P&R Electrical – Fields/Courts: \$250,000

This funding is for replacing, repairing and maintaining existing electrical systems, including underground feeders and wires at sports fields and tennis courts.

17. Street Tree Replacement: \$250,000

This funding is for planting and replacing trees on public property along downtown streets as well as the Neighborhoods Program.

18. Lead Paint/Asbestos Abatement: \$260,000

These are additional costs associated with repainting facilities with lead paint and/or asbestos. FY10-11: Tucker House

19. Americans with Disabilities Act (ADA) Facility Upgrades: \$155,000

Current codes, standards, and expectations have changed with regard to the extent of accessibility to park and recreation services. Funds are used to implement changes in buildings and access routes to make them ADA compliant.

20. Carousel Animal Restoration: \$75,000

This funding will be used for restoration and maintenance of Pullen and Chavis Park Carousel animals. Animals are on a constant rotation for restoration.

21. Multipurpose Field Renovation: \$110,000

The scope of this project is to renovate existing open space areas at park facilities to accommodate departmental athletic programming and rental of space by outside agencies. Renovation will consist of grading and site preparation, irrigation system installation and installation of sod or sprigs to establish a quality playing surface. Reductions in annual funding have delayed work to upgrade all existing open spaces to athletic field space by FY 12-13.

22. Safety Compliance: \$175,000

Funding for sites and facilities in need of improvements to be compliant with safety regulations, as well as the installation of AEDs at park facilities. Selected sites are identified through staff inventory assessments and are evaluated in terms of facility age, levels of use, demand, etc.

23. Backflow Prevention: \$100,000

This is an ongoing program to install and rebuild backflow preventers at all city facilities to comply with code.

24. Raleigh Little Theatre Improvements: \$100,000

Funding for various facility maintenance and upgrade projects at the historic theater.

25. Mordecai Improvements: \$45,000

Funding for the continuation of phased maintenance for the Mordecai Historic Park buildings.

26. Lake Wheeler Replacement Deck: \$25,000

Funds to replace degraded decking on Lake Wheeler waterfront docks with more durable material.

27. Theatre in the Park: \$95,000

Funding to implement repairs to the theatre based upon study recommendations.

28. Signage - Parks & Greenways: \$125,000

Funding for installation of new signs at parks and greenways, and replacement of existing signs damaged beyond repair.

29. Volunteerism and Partnership Projects: \$295,000

Funds for the purpose of partnering with individuals and groups on projects related to the Adopt-a-Park Program, the Park Improvement Matching Grant Program, playground construction and renovation, and other park improvement projects.

30. Historic Cemetery Restoration: \$90,000

Funding to implement the recommendations of the strategic plan (the Chicora Report) related to the inventory, restoration and ongoing care of Raleigh's three historic cemeteries (O'Rorke, Mount Hope, and City Cemetery). The cemetery grounds are currently maintained by the Parks and Recreation Department; however, there is a critical need to preserve and restore gravestones, monuments, plot fencing, etc. The Parks and Recreation Department and the Raleigh Historic Cemeteries Advisory Board are partnering to implement these recommendations.

31. Fayetteville Street Renovation Impacts: \$295,000

Replacement and repair of hardscape materials, landscape materials, site furnishings and other structures as a result of wear/tear attributed to routine daily use and special events. Additional repair required as a result of vandalism or unanticipated damage from renovation of adjoining properties. Plant material replacement to account for seasonal color replacement and mortality resulting from normal life cycle of material in an urban setting. Contractual power washing and pavement replacement.

32. Moore Square Improvements: \$505,000

Funding to create a Master Plan for Moore Square and begin design work. Project will require partnering with key stakeholders in the creation of this plan. Funds are requested in subsequent years to begin implementing the approved plan.

33. Maintenance Operations Facilities: \$275,000

Funds will be used to address renovation, upgrade and required repair for compliance at the numerous maintenance facilities associated with the Parks and Recreation Department. Scope would include reorganization and/or expansion of office space, repair/replacement of outside storage buildings, development and upfit of warehouse space, and construction of covered outside storage areas.

34. Buffaloe Road Park: \$100,000

Funding for additional athletic park improvements, including track/field venues, a picnic shelter, lights for the football field, and parking.

35. Camp Durant Nature Park Improvements: \$50,000

Funding for improvements to existing structures at Camp Durant Nature Park. Projects include replacement of boat house porch, correcting drainage at Campbell Lodge, installing a wheelchair transfer device, and an accessible path of travel from the training lodge to the lake.

36. Greenway Bridge/Boardwalk Repairs: \$350,000

Annual funding to repair and/or replace bridges or boardwalks that are identified in a systematic evaluation program.

37. Latta House: \$75,000

Funding for research and planning for this historic site.

38. Nash Square Improvements: \$75,000

Funding for upgrades including new irrigation, landscape improvements, and lighting upgrades for the pathways.

39. Reused Water Line Extension: \$100,000

This project is to extend the re-use water line to Walnut Creek Softball complex to irrigate the fields. Future funding for similar projects at other locations.

40. Pullen Park Improvements: \$95,000

Park improvements including replacing paddle boat docks, replacing train engine, and improving Community Center parking lot and lighting. Work to tie in with the bond project improvements.

41. Roof Runoff Collection: \$75,000

Funding to incorporate roof runoff collection system to existing buildings. The collection system can be above-ground or underground. Modification to existing building and possibly irrigation system will be necessary.

42. Solar Hot Water Heaters: \$150,000

Funding to incorporate solar hot water heaters at existing recreation center buildings. This is not to replace the existing system, but rather to be the primary hot water source with the conventional existing system as backup. This will be a multi-year project.

43. Structure Repair and Replacement: \$350,000

Funding for repair and replacement of bridges and/or other structures as determined by Structural Engineer. This program is set up to initiate major repairs and/or replace 2 bridges annually.

44. Walnut Creek Softball Complex Improvements: \$125,000

Funds for improvements at Walnut Creek Softball Complex including LED scoreboards, field fencing, irrigation, bleachers, ticket booth, accessible ramps and a picnic shelter.

45. Wooten Meadows Master Plan: \$125,000

Funds to master plan and begin development of this neighborhood park.

46. Alvis Farm: \$125,000

Funds to master plan and begin development of this community park.

47. Comfort Station Improvements: \$450,000

Ongoing maintenance program to maintain, repair, replace, and upgrade existing stand-alone restrooms.

48. Laurel Hills Master Plan Revision: \$100,000

Funds for a master plan revision for Phase 3 development of this community park.

49. Lions Park BMX Improvements: \$25,000

Repair and upgrade to existing track elements and related furnishings. Potential improvements to include, but not limited to, track upgrades, new site furnishings, landscaping and asphalt repair.

50. Milburnie Park: \$150,000

Funds to master plan and begin development of this community park.

51. Millbrook Exchange Tennis Center: \$150,000

Improvements to the Millbrook Exchange Tennis Center including additional parking, upgrade of tennis court lights to tournament standards, and court resurfacing.

52. MLK Memorial Garden Expansion: \$150,000

Funds for expansion of the existing memorial park in collaboration with Community Advocates for Parks in Southeast Raleigh (CAPSR) and the Martin Luther King Committee.

53. Site Security: \$125,000

Funding to address security issues throughout the park system, including: installation of control access gates to limit vehicular access to facilities after hours, and security cameras to increase security for parks and facilities.

54. SW Raleigh Neighborhood Park: \$125,000

Funds to master plan and begin development of a neighborhood park in Southwest Raleigh.

55. Thornton Road: \$300,000

Funds to master plan and begin development of this community park (Sydnor White property).

56. Urban Forestry Standards: \$20,000

Funding to hire a consultant to update the City's urban forestry standards. Hire a professional consultant to evaluate the existing documents: Policies and Standards Governing Activities Which Impact City Trees document and Sec. 9-8 Tree and Vegetation City Code. Consultant will compare municipal street tree ordinances nationwide to create a comprehensive up-to-date final document and user manual. Consultant will facilitate the Department peer review process, public comment process (if needed), and Council approval.

57. Drewry Hills: \$100,000

Funds to master plan and begin development of this neighborhood park in the Drewry Hills-Rothgeb area of Crabtree Creek.

58. Halifax Park Improvements: \$190,000

Funds for a new outdoor basketball court, playground, and multipurpose field.

59. Parks Plan Update: \$200,000

Funding to update the Parks Plan to reflect changes required by the adoption of the City's updated Comprehensive Plan. The current Parks Plan was adopted May 2004.

2007 Bond Projects

B-51. Crabtree Creek Extension East to Neuse: \$5,988,721

Complete the greenway segment from Buckeye Trail at New Bern Avenue to the Neuse River at Anderson Point Park.

B-55. Neuse River Greenway Completion: \$7,500,000

Complete major portions of the Neuse River Greenway and seek partnerships to complete all the way to Johnston County.

B-56. Walnut Creek Greenway Extension to Neuse River: \$2,700,000

The portion of the greenway system will move the connection towards the Neuse River.

B-58. Barwell Road Park Development: \$1,700,000

This would develop the first phase outdoor recreational opportunities around the new Community Center.

B-60. Pullen Park Carriageway Bridge: \$2,000,000

New bridge as per the master plan to safely connect two portions of the park.

B-61. Chavis Height Carousel Building Adaptive Reuse: \$500,000

Old Carousel Bldg will be adaptively re-used for the Community to use as a public space.

B-64. Mordecai Park Interpretive Center: \$1,412,500

Design and Construction of a new interpretive center at the Historic Site as per master plan.

B-69. Lake Johnson Facility: \$2,350,000

New multiple use facility as per the adopted master plan.

B-73. Land Acquisition: \$2,000,000

This funding is used to purchase various future park sites according to the city's Comprehensive Plan needs.

B-74. NE Raleigh Community Center: \$5,500,000

Design and construction of a new community center in NE Raleigh.

B-75. NE Raleigh Active Recreation Partnerships: \$1,000,000

Funding for partnerships to provide active recreational opportunities in NE Raleigh.

B-76. Unsatisfied Neighborhood Park Search Areas: \$2,000,000

This project will provide funding to acquire or renovate locations to provide services in areas that we can not meet as per the Comprehensive Plan, using non-traditional methods for the delivery of recreational services.

Phase II – Parks and Recreation Program**Parks and Recreation Acquisition**

1. Park Site Acquisition: \$25,000,000

Continued funding for acquisition of land for community parks. The areas and priorities of potential park site acquisitions are identified in the Comprehensive Plan.

2. Greenway Acquisition: \$2,500,000

Continued funding for acquisition of land for greenway parcels. The items funded include missing greenway segments, reimbursements for dedicated greenway easements that become available during development site plan approval procedures.

Development Projects1. Greenway Development: \$750,000

Continued funding to construct, study and manage greenway trails. Costs for construction include permitting, professional services, such as engineers and construction administration, environmental and site surveys.

2. Building Improvements: \$7,000,000

Funding will target interior lighting upgrades, and boilers, gas packs, water fountains, and HVAC replacement.

3. Park Site Improvements: \$1,425,000

Continued funding for repairs/replacements to grounds and certain non-structural facilities such as concrete and asphalt surfaces, grills, tables and benches to maintain our current levels of service

4. Playground Improvements: \$1,000,000

Continued funding for repairs/replacements of existing playgrounds to address safety issues and play value – such as the removal of old wooden structures, correction of entrapments, surfacing materials, and borders to meet Consumer Product Safety Council guidelines.

5. Tennis Court Upgrades: \$415,000

Continued funding for court resurfacing in order to maintain life expectancy.

6. Parks Roof Repairs: \$850,000

Continued funding for repairing and replacing facility roofs and coverings.

7. Parks Paving Program: \$675,000

Continued funding for improving, repairing and replacing pavement at city facilities.

8. Field Fencing: \$725,000

Ongoing program to repair/replace existing fencing primarily at ballfields and tennis courts.

9. Park Lighting: \$1,000,000

Repair, replace, and maintain lighting at park sites, ball fields, tennis courts, and other facilities.

10. Parks Irrigation Projects: \$250,000

Ongoing program to repair/maintain and upgrade automated irrigation systems.

11. Community Facility Upgrades: \$7,550,000

Continued funding to maintain, repair, replace, and upgrade community center systems such as plumbing, lighting, and HVAC.

12. Picnic Shelters: \$770,000

Continued funding to replace shelters that are at the end of their useful lifecycle.

13. Aquatic Improvements: \$1,200,000

General aquatic maintenance including: water treatment systems (filters and chemical feed systems) and maintenance of the pool, decks, and supporting structures.

14. Greenway Trail Resurfacing: \$750,000

Resurface older greenway trails to provide a safe walking surface and to widen older trails to current standards.

15. P&R Field Upgrades: \$375,000

The athletic field upgrades include the repair/replacement of concrete pads and walks for the dugouts, scorer's table, and bleachers. Also included is the purchase and installation of player's benches, bleachers, score boards and scorer's table and bench.

16. P&R Electrical – Fields/Courts: \$500,000

Replace, repair and maintain existing electrical systems at sports fields and tennis courts in parks.

17. Street Tree Replacement: \$425,000

Typical lifespan of a tree in downtown streetscape is 10-12 years. Replacement of thoroughfare trees damaged or destroyed by vehicular traffic.

18. Lead Paint/Asbestos Abatement: \$250,000

Costs associated with repainting facilities with lead paint and/or asbestos.

19. ADA Facility Upgrades: \$250,000

Continued funding to improve access to city recreational centers and services. Funds would be provided annually to implement changes in buildings and access routes to ensure compliance with the Americans with Disabilities Act.

20. Carousel Animal Restoration: \$150,000

Pullen and Chavis Park Carousel animal restoration. Funding is for continuous maintenance and restoration of the Carousels.

21. Multipurpose Field Renovations: \$250,000

Installation of new irrigation systems, addition of soil and amendments and contractual sprigging of several multi-purpose fields yet to be renovated for use under department's new open space policy and program.

22. Safety Compliance: \$250,000

Sites and facilities in need of improvements to be compliant with safety regulations are identified through staff inventory assessments and are evaluated in terms of facility age, levels of use, demand, etc.

23. Backflow Prevention: \$125,000

An ongoing program to install and rebuild backflow preventers within all City facilities for code compliance.

24. Raleigh Little Theatre Improvements: \$125,000

Continued funding for capital improvement at the Raleigh Little Theatre Building.

25. Mordecai Improvements: \$150,000

Continued funding to upgrade the facilities at Historic Mordecai Park.

26. Theatre in the Park: \$125,000

Continued funding for Theatre in the Park Building improvements.

27. Signage – Parks & Greenways: \$375,000

Implementation of signage study to replace park entry and informational signs.

28. Volunteerism and Partnership Projects: \$405,000

Continued funding for partnering with individuals and groups in projects related to Adopt-a-Park, playground builds, and other park improvement projects.

29. Historic Cemetery Restoration: \$250,000

Funding to implement the recommendations of the strategic plan (the Chicora Report) related to the inventory, restoration and ongoing care of Raleigh's three historic cemeteries (O'Rorke, Mount Hope, and

City Cemetery). The cemetery grounds are currently maintained by the Parks and Recreation Department; however, there is a critical need to preserve and restore gravestones, monuments, plot fencing, etc. The Parks and Recreation Department and the Raleigh Historic Cemeteries Advisory Board are partnering to implement these recommendations.

30. Fayetteville Street Renovation Impacts: \$375,000

Continued funding for replacement of hardscape materials, site furniture and structures on Fayetteville Street.

31. Moore Square Improvements: \$5,000,000

Funding to create a Master Plan for Moore Square and begin design work. Project will require partnering with key stakeholders in the creation of this plan. Funds are requested in subsequent years to begin implementing the approved plan.

32. Maintenance Operations Facilities: \$200,000

Renovations and expansion of existing Maintenance and Operations Facilities and the research, acquisition, design and development of new ones.

33. Buffaloe Road Park: \$2,200,000

Funding for additional athletic park improvements, including track/field venues, a picnic shelter, lights for the football field, and parking. FY 2018 funding is for the design and construction of a building with restrooms, storage, offices and scorekeeper area.

34. Camp Durant Nature Park Improvements: \$150,000

Funding for improvements to existing structures at Camp Durant Nature Park. Projects include replacement of boat house porch, correcting drainage at Campbell Lodge, installing a wheelchair transfer device, and an accessible path of travel from the training lodge to the lake.

35. Greenway Bridge/Boardwalk Repairs: \$500,000

An annual funding amount for the purposes of repairing and/or replacing bridges or boardwalks that are identified in a systematic evaluation program.

36. Latta House: \$75,000

Funding for research and planning for this historic site.

37. Nash Square Improvements: \$150,000

Funding for upgrades including new irrigation, landscape improvements, and lighting upgrades for the pathways.

38. Reused Water Line Extension: \$100,000

This project is to extend the reuse water line north to Walnut Creek Softball complex to provide field irrigation and similar projects at other locations.

39. Pullen Park Improvements: \$150,000

Park improvements including replacing paddle boat docks, replacing train engine, and improving Community Center parking lot and lighting.

40. Roof Runoff Collection: \$350,000

Funding to incorporate roof runoff collection system to existing buildings. The collection system can be above-ground or underground. Modification to existing building and possibly irrigation system will be necessary.

41. Solar Hot Water Heaters: \$375,000

To incorporate solar hot water heater to existing recreation center buildings. This is not to replace the existing system, but rather be the primary hot water source with the conventional existing system as backup.

42. Structure Repair and Replacement: \$450,000

Repair and replacement of bridges and/or other structures as determined by Structural Engineer. This program is set up to initiate major repairs and/or replace 2 bridges annually.

43. Walnut Creek Softball Complex Improvements: \$2,200,000

Funds for improvements at Walnut Creek Softball Complex including LED scoreboards, field fencing, irrigation, bleachers, ticket booth, accessible ramps and a picnic shelter.

44. Wooten Meadows Master Plan: \$250,000

Funds to master plan and begin development of this neighborhood park.

45. Chavis Way Planning: \$2,125,000

Funding for development of infrastructure on Chavis Way Greenway to facilitate programming use of open space. Infrastructure likely to include water and electric utilities. Some walkways or paved areas may be included. Signage, benches and other site amenities should be considered.

46. Alvis Farm: \$5,350,000

Funds to master plan and begin development of this community park.

47. Canine Park: \$60,000

Funding for new dog parks, off-leash pet exercise areas, generally in established parks or as part of a master plan. Dog parks are entirely fenced, with double gated pedestrian entrance, water service, and possibly lights. Typically sited to take advantage of existing infrastructure (parking, water service, restroom, etc.) and cover 1-2 acres.

48. Comfort Station Improvements: \$1,070,000

Continued funding to repair, replace and upgrade comfort stations at various park sites.

49. Milburnie Park: \$7,500,000

Funds to master plan and begin development of this community park.

50. Millbrook Exchange Tennis Center: \$200,000

Improvements to the Millbrook Exchange Tennis Center including additional parking, upgrade of tennis court lights to tournament standards, and court resurfacing.

51. MLK Memorial Garden Expansion: \$75,000

Funds for expansion of the existing memorial park in collaboration with Community Advocates for Parks in Southeast Raleigh (CAPSR) and the Martin Luther King Committee.

52. Site Security: \$175,000

Adding security cameras, gates both manual and automatic to sites and also additional measures to provide optimum site security.

53. SW Raleigh Neighborhood Park: \$2,200,000

Funds to master plan and begin development of a neighborhood park in Southwest Raleigh.

54. Thornton Road: \$5,500,000

Funds to master plan and begin development of this community park (Sydnor White property).

55. Athletic Complex: \$10,000,000

Acquisition, design and development of a new indoor and outdoor athletic complex.

56. Aquatic, Community, Nature & Senior Centers: \$56,000,000

Design and construction of new aquatic, community, nature, and senior centers at strategic locations around the City, based on the Comp Plan, Aquatic Study, and Senior Center Study.

57. Drewry Hills: \$2,200,000

Funds to master plan and begin development of this neighborhood park in the Drewry Hills-Rothgeb area of Crabtree Creek.

58. Master Plans: \$500,000

Revision of existing outdated Master Plans and new Master Plans for undeveloped/unplanned properties.

59. Park Development: \$17,000,000

New park development, as well as development of existing parks to include additional elements and future phases of existing master plans.

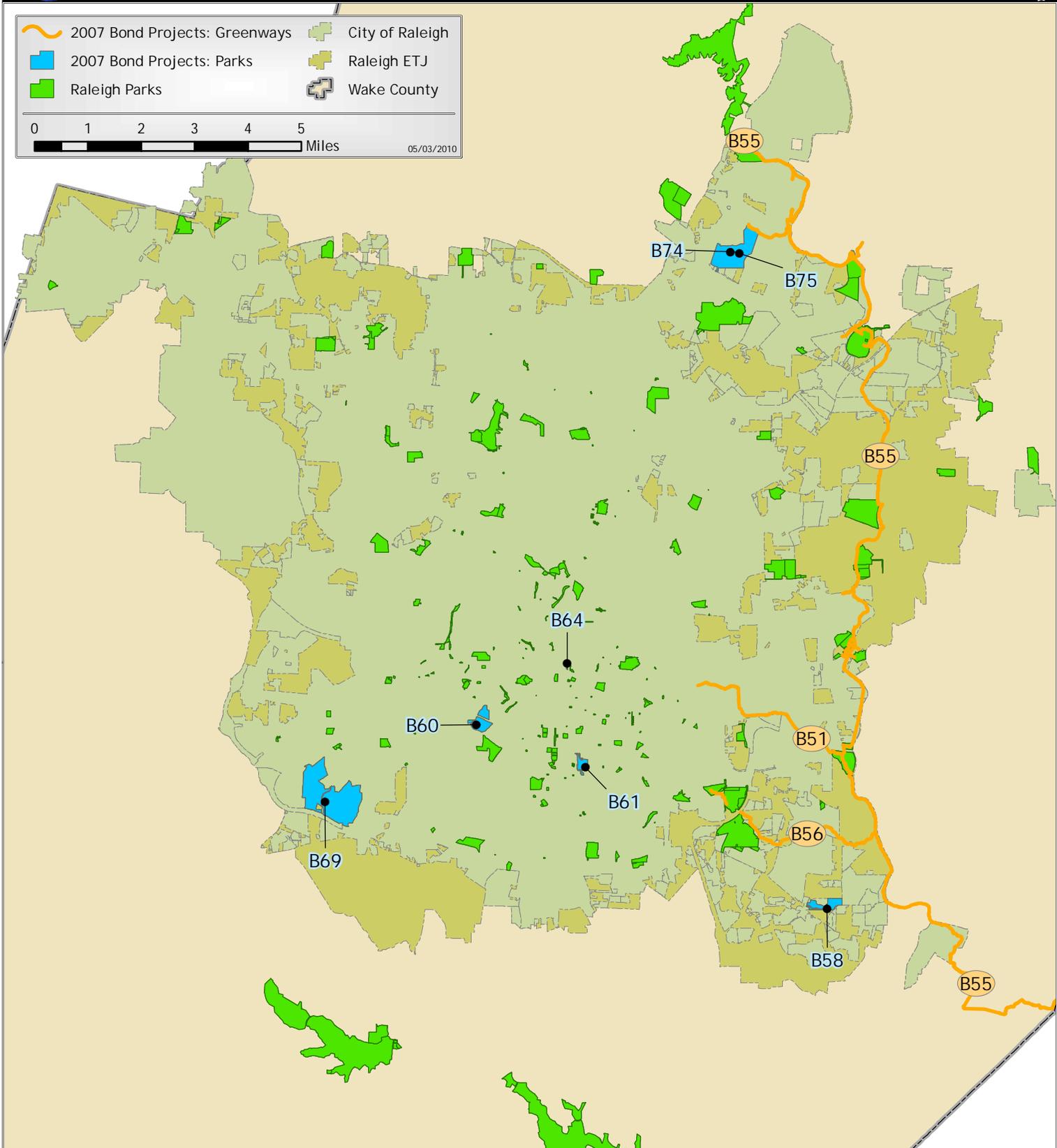
2007 Bond Projects



— 2007 Bond Projects: Greenways
■ 2007 Bond Projects: Parks
■ Raleigh Parks
 City of Raleigh
 Raleigh ETJ
 Wake County

0 1 2 3 4 5 Miles

05/03/2010



ID #	2007 Bond Projects
B51	Crabtree Creek Ext to Neuse River
B55	Neuse River Greenway Completion
B56	Walnut Creek Greenway Ext to Neuse River
B58	Barwell Road Park Development
B60	Pullen Park Carriageway Bridge
B61	Chavis Heights Carousel Building Adaptive Re-Use
B64	Mordecai Historic Park Interpretive Center
B69	Lake Johnson Facility
B73	Land Acquisition*
B74	NE Raleigh Community Center
B75	NE Raleigh Active Recreation Partnerships
B76	Unsatisfied Neighborhood Park Search Areas*

(*) Projects not displayed on map.



Stormwater Utility and Neuse Basin Environmental Program

The stormwater utility and Neuse Basin environmental program funds projects associated with stormwater runoff, pollution control and water quality, drainage improvements, alleviation of flooding, and improvements to watercourses that require erosion control and streambed remediation throughout the city's jurisdiction.

Raleigh established a monthly stormwater fee during fiscal year 2003-2004. In conjunction with the establishment of the stormwater fee, the City Council created the Stormwater Management Advisory Commission. The Commission advises the City Council on issues related to the stormwater management program; local, state, and federal regulations and their application to city stormwater programs; and options for alleviating the impact of stormwater and other drainage issues to private property.

All revenue from fees is programmed for expenditure within the stormwater utility and Neuse Basin environmental program. A list of projects covered by fees and bonds are itemized on the following pages.

Ten-Year Summary of the Stormwater Program

	PHASE I	PHASE II	TOTAL
Neuse Basin Environmental Program	\$ 20,190,000	\$ 20,330,000	\$ 40,520,000
Stormwater Utility Program	27,095,000	25,470,000	52,565,000
TOTAL	\$ 47,285,000	\$ 45,800,000	\$ 93,085,000

Project Costs and Funding Plan for Stormwater Utility and Neuse Basin Environmental

Neuse Basin Environmental Projects		2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
1	Stormwater Management Studies	\$ -	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 1,600,000
2	NPDES Drainage System Inventory	500,000	540,000	500,000	500,000	500,000	\$ 2,540,000
3	Water Quality Cost Share	250,000	250,000	250,000	250,000	250,000	\$ 1,250,000
4	City Hall Water Quality Retrofit Projects	150,000	150,000	150,000	150,000	150,000	\$ 750,000
5	TMDL Streams Water Quality Projects	500,000	500,000	500,000	500,000	500,000	\$ 2,500,000
6	Stream Restoration/ Stabilization	-	500,000	500,000	500,000	500,000	\$ 2,000,000
7	Simmons Branch Stream Restoration	-	-	-	500,000	-	\$ 500,000
8	Kensington Park Stream Restoration	-	-	-	400,000	2,200,000	\$ 2,600,000
9	Pigeon House at Wade Stream Restoration	150,000	-	600,000	-	-	\$ 750,000
10	Lake Preservation	-	500,000	500,000	500,000	500,000	\$ 2,000,000
11	Valley Lake Rehab/ Preservation	-	-	400,000	-	2,000,000	\$ 2,400,000
12	Glen Eden Park Lake Rehab/ Preservation	-	250,000	-	850,000	-	\$ 1,100,000
13	Camp Durant Lake Rehab/ Preservation	-	-	-	-	100,000	\$ 100,000
14	Stormwater Capital Reserve	-	-	-	-	100,000	\$ 100,000
Subtotal, Neuse Basin Projects		\$ 1,550,000	\$ 3,090,000	\$ 3,800,000	\$ 4,550,000	\$ 7,200,000	\$ 20,190,000

Stormwater Projects		2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
1	Stormwater System Repairs	\$ 800,000	\$ 800,000	\$ 800,000	\$ 800,000	\$ 800,000	\$ 4,000,000
2	Petition Projects	500,000	500,000	500,000	500,000	500,000	\$ 2,500,000
3	Maintenance Reserve	-	750,000	1,000,000	1,000,000	1,000,000	\$ 3,750,000
4	Flood Mitigation	-	500,000	500,000	500,000	500,000	\$ 2,000,000
5	Harps Mill/ Haymarket Drainage	500,000	-	-	-	-	\$ 500,000
6	Five Points Drainage	-	250,000	800,000	2,200,000	-	\$ 3,250,000
7	Tanbark Way Drainage	140,000	-	-	-	-	\$ 140,000
8	Knights Way Drainage	340,000	-	-	-	-	\$ 340,000
9	Strothmore/ Harps Mill Way Drainage	75,000	-	470,000	-	-	\$ 545,000
10	Grist Mill/ Harps Mill Drainage	-	1,100,000	-	-	-	\$ 1,100,000
11	Grist Mill Northwest Drainage	-	420,000	-	-	-	\$ 420,000
12	Quince Street Drainage	-	-	25,000	170,000	-	\$ 195,000
13	Frank Street Drainage	-	-	-	95,000	600,000	\$ 695,000

Project Costs and Funding Plan for Stormwater Utility and Neuse Basin Environmental

Stormwater Projects (continued)		2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
14	Roanoke Park Neighborhood Drainage	\$ -	\$ -	\$ 750,000	\$ -	\$ -	\$ 750,000
15	Old Buffaloe Road Pipe Upgrade	-	-	40,000	230,000	-	\$ 270,000
16	Aycock Street Storm Drainage	-	-	-	25,000	200,000	\$ 225,000
17	Shepard/ Merriman Storm Drainage	-	-	250,000	1,600,000	-	\$ 1,850,000
18	Parkwood Drive Drainage Upgrade	-	-	50,000	290,000	-	\$ 340,000
19	Western Blvd (3900) Drainage	-	-	120,000	-	-	\$ 120,000
20	Simmons Branch Tributary Drainage	-	-	500,000	-	-	\$ 500,000
21	Woodbend Drive Culvert Upgrade	-	-	-	300,000	-	\$ 300,000
22	New Hope Church Road Culvert Upgrade	-	-	-	-	250,000	\$ 250,000
23	Sierra Drive Storm Drainage	250,000	-	-	-	-	\$ 250,000
24	Newbold St Drainage Improvements	35,000	-	250,000	-	-	\$ 285,000
25	Hargett & West St Drainage Improvements	35,000	-	300,000	-	-	\$ 335,000
26	Acer Ct Drainage Improvements	-	-	-	30,000	120,000	\$ 150,000
27	Timber Ridge Drainage Improvements	-	-	100,000	-	-	\$ 100,000
28	Ramblewood Dr Drainage Improvements	270,000	-	-	-	-	\$ 270,000
29	Harps Mill/Harps Mill Woods Run/Paddle Wheel	-	-	-	100,000	-	\$ 100,000
30	Brockton Drive Culvert	-	-	-	75,000	475,000	\$ 550,000
31	E. Davie St Drainage Improvements	-	40,000	150,000	-	-	\$ 190,000
32	North St Drainage Improvements	75,000	-	-	-	-	\$ 75,000
33	Energy Dissipation at Culverts (House Crk)	-	50,000	50,000	50,000	-	\$ 150,000
34	Winthrop Dr Culvert	-	-	-	50,000	250,000	\$ 300,000
35	O'Neal Rd Culvert	-	-	-	50,000	250,000	\$ 300,000

Subtotal, Stormwater Projects \$ 3,020,000 \$ 4,410,000 \$ 6,655,000 \$ 8,065,000 \$ 4,945,000 \$ 27,095,000

Total Projects Costs, Stormwater \$ 4,570,000 \$ 7,500,000 \$ 10,455,000 \$ 12,615,000 \$ 12,145,000 \$ 47,285,000

Program Funding Resources		2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
	Stormwater Capital Reserves	\$ -	\$ 10,000	\$ 2,298,000	\$ 3,910,000	\$ 2,895,000	\$ 9,113,000
	Stormwater Utility Operating Fund	4,570,000	7,490,000	8,157,000	8,705,000	9,250,000	\$ 38,172,000
Total Funding Resources, Stormwater		\$ 4,570,000	\$ 7,500,000	\$ 10,455,000	\$ 12,615,000	\$ 12,145,000	\$ 47,285,000

Phase I - Stormwater Utility & Neuse Basin

Neuse Basin Environmental Program

1. Stormwater Management Studies: \$1,600,000

To study stormwater impacts using computer modeling to develop techniques to alleviate flooding, water quality, and erosion problems. Component of the City's Neuse River initiative and the City's mandated NPDES permit.

2. NPDES Drainage System Inventory: \$2,540,000

Inventory of the City's drainage infrastructure is mandated by the City's NPDES permit as part of the federal Clean Water Act.

3. Water Quality Cost Share: \$1,250,000

This cost share program will be similar to the Drainage Petition Program already managed by the Stormwater Management Division. The Water Quality Cost Share program will be for the construction of water quality best management practices, including cost shares with NCDOT. Retrofit projects are mandated by the Neuse Nutrient Management Study, also known as the Neuse Rules, as enforced by North Carolina Department of Environment and Natural Resources. Retrofit projects are essential for achieving water quality goals.

4. City Hall Water Quality Retrofit Projects: \$750,000

Implementation of several best management practices to capture and treat runoff from the City Hall block including: (1) Construction of an extensive green roof to be installed on the 6th floor roof of the RMB; (2) a cistern to capture runoff from the parking deck for use in irrigation, the fountain, and possibly vehicle washing; (3) a cistern to capture runoff from the new public safety center; and (4) installation of bio-retention and other LID techniques to capture runoff from walkways and other remaining impervious areas. There would also be an opportunity to create a water feature such as a water sculpture utilizing the treated runoff. Retrofit projects are required by the Neuse Nutrient Management Study, also known as the Neuse Rules, as enforced by North Carolina Department of Environment and Natural Resources. Retrofit projects are essential for achieving water quality goals. Using the City Hall complex as a showcase would serve as a demonstration site, provide positive exposure, and offer an excellent opportunity for public education and outreach.

5. TMDL Streams Water Quality Projects: \$2,500,000

Funding for the design and construction of water quality projects/BMP's to reduce pollutant discharges in stormwater runoff within the TMDL listed watersheds such as Pigeon House Branch and Perry Creek. The City of Raleigh's NPDES Stormwater Permit requires the development and implementation of a water quality restoration plan for all TMDL listed streams.

6. Stream Restoration/ Stabilization: \$2,000,000

Stabilization and enhancement of eroding stream banks within the City to improve water quality. To improve water quality in the City through stabilization of eroding stream banks. Implementation of a component of the City's water quality plan which is mandated by the Clean Water Act.

7. Simmons Branch Channel Restoration: \$500,000

Improve 4,000 feet of channel along Simmons Branch to decrease flooding and erosion. This project will improve water quality by reducing sediment loads and decreasing flooding of homes and roads. Recommended in the Simmons Branch watershed study.

8. Kensington Park Stream Restoration: \$2,600,000

This project will improve water quality by reducing sediment loads and decreasing flooding of homes and roads.

9. Pigeon House at Wade Stream Restoration: \$750,000

To improve water quality in a TMDL listed impaired stream through stabilization of eroding stream banks. Implementation of a component of the City's water quality plan which is mandated by the Clean Water Act.5

10. Lake Preservation: \$2,000,000

Replacement of dams and spillways, dredging of lakes, and water quality enhancements. Implementation of the Lake Preservation Policy as approved by City Council. These projects will provide downstream flood protection and water quality benefits.

11. Valley Lake Rehabilitation/Preservation: \$2,400,000

Rebuild the dam and spillway and retrofit for water quality control.

12. Glen Eden Park Lake Rehabilitation/Preservation: \$1,100,000

This project will repair and rehabilitate the dam at Glen Eden Park. This includes making improvements to the dam to meet North Carolina Dam Safety Standards and to accommodate a Parks and Recreation Greenway Trail.

13. Camp Durant Lake Rehabilitation/Preservation: \$100,000

Design services and construction for the repair of a failing dam.

14. Stormwater Capital Reserve: \$100,000

Funding of a capital reserve program to be developed as future proceeds are received.

Stormwater Utility Program1. Stormwater System Repairs: \$4,000,000

Repairs to stormwater facilities made in accordance with City Council policies.

2. Stormwater Petition Projects: \$2,500,000

Funding of drainage petition projects approved by City Council for construction under the City Storm Drainage Policy.

3. Maintenance Reserve: \$3,750,000

Funding of a maintenance program to be developed as recommended in the Stormwater Utility Funding Study.

4. Flood Mitigation: \$2,000,000

Project to provide funding for buyout or elevation of structures within the 100-year floodplain, particularly repetitive loss structures.

5. Harps Mill Road/ Haymarket Drainage: \$500,000

This project will replace and install storm drainage improvements along Harps Mill / Haymarket as a critical element of the North Ridge stormwater capital improvement projects.

6. Five Points Drainage: \$3,250,000

This project will replace and install storm drainage improvements in the 5 points neighborhood.

7. Tanbark Way Drainage: \$140,000

This project will replace and install storm drainage improvements along Tanbark Way. This project was identified in the City of Raleigh's North Ridge and Port Royal Drainage Study. It is one of several projects on the Western tributary in the North Ridge development that was identified for improvements to alleviate structural and street flooding.

8. Knights Way Drainage: \$340,000

This project will replace an existing culvert under Knight's Way with a larger culvert. This project was identified in the City of Raleigh's North Ridge and Port Royal Drainage Study. It is one of several projects in the North Ridge development that was identified for improvements to alleviate structural and street flooding.

9. Strothmore/ Harps Mill Way Drainage: \$545,000

This project will replace and install storm drainage improvements along Strothmore Court. This project was identified in the City of Raleigh's North Ridge and Port Royal Drainage Study. It is one of several projects on the northern tributary in the North Ridge development that was identified for improvements to alleviate structural and street flooding.

10. Grist Mill/ Harps Mill Drainage: \$1,100,000

This project will replace and install storm drainage improvements along Grist Mill and Harps Mill. This project was identified in the City of Raleigh's North Ridge and Port Royal Drainage Study. It is one of several projects on the Western tributary in the North Ridge development that was identified for improvements to alleviate structural and street flooding.

11. Grist Mill Northwest Drainage: \$420,000

This project will replace and install storm drainage improvements along Grist Mill. This project was identified in the City of Raleigh's North Ridge and Port Royal Drainage Study. It is one of several projects on the Western tributary in the North Ridge development that was identified for improvements to alleviate structural and street flooding.

12. Quince Street Drainage: \$195,000

This project will replace an existing deteriorated culvert on Quince Street.

13. Frank Street Drainage: \$695,000

This project will replace an existing deteriorated culvert and headwall on Frank Street. The replaced culvert will extend along Frank Street past Norris Street to Cemetery Branch.

14. Roanoke Park Neighborhood Drainage: \$750,000

This project will replace existing undersized storm drainage structures & pipes and install storm drainage improvements along Greenwood Street, Dare Street, Cherokee Drive, and Fairview Road.

15. Old Buffalo Road Pipe Upgrade: \$270,000

This project will provide storm drainage improvements on Old Buffalo Road. An undersized 24-inch pipe will be upgraded to a 36-inch pipe. The pipe replacement is located on Old Buffalo Road between Capital Boulevard and Oates Street.

16. Aycock Street Storm Drain: \$225,000

This project will provide storm drainage improvements on Aycock Street. This project includes the replacement of existing 24 and 30 inch pipes in Aycock Street and adding additional storm drainage to prevent street flooding. The pipe replacement is located on Aycock Street between Bickett and Sunrise.

17. Shepherd/ Merriman Storm Drain: \$1,850,000

There are 18-inch and 24-inch diameter pipes on Shepherd Street and Merriman Avenue that are undersized contributing to flooding of Shepherd Street and the private property on Dixie Trail. These pipes need to be replaced with 30-inch diameter reinforced concrete pipe to address street flooding and minimize flooding of private properties.

18. Parkwood Drive Drainage Upgrade: \$340,000

There is an existing 36-inch diameter reinforced concrete pipe that crosses Parkwood Drive downstream from Pleasant Valley Promenade Mall. The existing pipe was installed before the construction of the mall, but is currently undersized for the amount of drainage that comes to the pipe.

19. 3900 Western Blvd Drainage: \$120,000

This project will evaluate the existing drainage system at 3900 Western Boulevard and design a solution to alleviate the structural flooding in that area.

20. Simmons Branch Tributary Drainage: \$500,000

Replace and upgrade the drainage piping at eight locations from Kaplan Drive to Swift Drive.

21. Woodbend Drive Culvert Upgrade: \$300,000

This project is for providing storm drainage improvements under Woodbend Drive. An arch culvert will be upgraded to three 10 by 10 box culverts.

22. New Hope Church road Culvert Upgrade: \$250,000

This project will upgrade the existing culvert system at New Hope Tributary and New Hope Church Road. The additional culvert will be either a 1- 8' X 6' RCB or 2- 10' X 5' RCB with inverts 1 foot higher. Construction set for FY 2016-2017 for \$1,500,000.

23. Sierra Drive Storm Drainage: \$250,000

This project includes a study of several thousand feet of a storm drainage system in the watershed draining to the 2100 and 2200 blocks of Sierra Drive.

24. Newbold Street Drainage Improvements: \$285,000

This project will replace and install storm drainage improvements across Newbold Street between Blanchard Street and Rush Street.

25. Hargett & West Street Drainage Improvements: \$335,000

This project will replace and supplement existing storm drainage structures and pipes at the intersection of Hargett Street and West Street to alleviate street flooding and standing water.

26. Acer Court Drainage Improvements: \$150,000

This project will add storm drainage structures on Acer Court to relieve street and structural flooding.

27. Timber Ridge Drainage Improvements: \$100,000

This project will connect the storm drainage system along Timber Ridge Dr with a downstream receiving system to allow proper drainage, reduce ongoing maintenance, and help reduce the probability of local street flooding.

28. Ramblewood Drive Drainage Improvements: \$270,000

This project will upgrade the significantly undersized storm drainage system under Ramblewood Drive that is currently contributing to street and structural flooding.

29. Harps Mill/Harps Mill Woods Run/ Paddle Wheel: \$100,000

This project will analyze the existing storm drainage system to see if an additional curb inlet and pipes can be added to alleviate water ponding in Harps Mill Road.

30. Brockton Drive Culvert: \$550,000

The existing 24" CMP culvert at 4227 Brockton Drive is undersized and prone to clogging. This has led to upstream flooding on City of Raleigh property and Brockton Drive. The downstream channel is eroding.

31. E. Davie Street Drainage Improvements: \$190,000

This project will upgrade the undersized storm drainage system under E. Davie Street (near 901 E. Davie) that is currently contributing to street flooding.

32. North Street Drainage Improvements: \$75,000

Serious problems have recently been identified by City Stormwater Staff with a damaged junction box located near the intersection of N. Boyan Av & W. North St. A preliminary investigation and estimate has been prepared for the required repairs of the junction box (manhole). The junction is deep, with multiple

pipes coming in & a CMP leaving the box. There are possible utility conflicts and a building foundation is in close proximity. Repairs are beyond the scope of City maintenance forces.

33. Energy Dissipation at Culverts (House Creek): \$150,000

This project will install outlet protection or structural energy dissipators at three locations within the House Creek Basin. These locations include: 1) Sandia Drive on an unnamed tributary; 2) Blue Ridge Road on House Creek; and 3) Glen Eden Drive on House Creek.

34. Winthrop Drive Culvert: \$300,000

This project will upgrade the existing culvert at Winthrop Drive between Hermitage Drive and Sleepy Hollow Drive. This culvert is expected to overtop in the 4% Annual-Chance storm, causing street flooding and structural flooding at the crossing and upstream. The scope of work will be to replace the existing 54" RCP with a 7' x 7' (or equally-sized) box culvert.

35. O'Neal Road Culvert: \$300,000

This project will upgrade the existing culvert at O'Neal Road upstream of Springdale Lake. This culvert is expected to overtop in the 10% Annual-Chance storm, causing street flooding and structural flooding at the crossing and upstream. The scope of work includes replacing the existing twin 48" RCP's with two 7' x 7' or equal sized box culverts.

Phase II - Stormwater Utility & Neuse Basin

Neuse Basin Environmental Program

Stormwater Management Studies: \$2,000,000

Study stormwater effects using a basin-wide approach and develop remedial strategies for stormwater problems.

NPDES Drainage System Inventory: \$2,500,000

Inventory of the City's drainage infrastructure is mandated by the City's NPDES permit as part of the federal Clean Water Act.

Water Quality Cost Share: \$1,250,000

This cost share program will be similar to the Drainage Petition Program already managed by the Stormwater Management Division. The Water Quality Cost Share program will be for the construction of water quality best management practices, including cost shares with the North Carolina Department of Transportation.

City Hall Water Quality Retrofit Projects: \$300,000

Retrofit projects are required by the Neuse Nutrient Management Study, also known as the Neuse Rules, as enforced by North Carolina Department of Environment and Natural Resources. Retrofit projects are essential for achieving water quality goals. Using the City Hall complex as a showcase would serve as a demonstration site, provide positive exposure, and offer an excellent opportunity for public education and outreach.

TMDL Streams Water Quality Projects: \$2,500,000

Funding for the design and construction of water quality projects/BMP's to reduce pollutant discharges in stormwater runoff within the TMDL listed watersheds such as Pigeon House Branch and Perry Creek. The City of Raleigh's NPDES Stormwater Permit requires the development and implementation of a water quality restoration plan for all TMDL listed streams.

Fallon Park Water Quality Improvements: \$410,000

Retrofit projects are required by the Neuse Nutrient Management Study, also known as the Neuse Rules, as enforced by North Carolina Department of Environment and Natural Resources. Retrofit projects are essential for achieving water quality goals.

Stream Restoration/ Stabilization: \$2,500,000

Restore and stabilize degraded streams on public property as recommended in the drainage basin studies.

Simmons Branch Channel Restoration: \$2,500,000

Improve 4,000 feet of channel along Simmons Branch to decrease flooding and erosion. This also will improve water quality by reducing sediment loads and decrease flooding to homes and roads.

Mine Creek North Stream Restoration: \$460,000

To improve water quality in the City through stabilization of eroding stream banks. Implementation of a component of the City's water quality plan which is mandated by the Clean Water Act.

Mine Creek South Stream Restoration: \$460,000

To improve water quality in the City through stabilization of eroding stream banks. Implementation of a component of the City's water quality plan which is mandated by the Clean Water Act.

Walnut Creek Stream Restoration/Flood Mitigation: \$1,250,000

This future series of projects will begin to address higher priority stream restoration and flood mitigation projects identified within the Walnut Creek Watershed Study and Master Plan. Projects may include stream stabilization, stream restoration, and/or flood mitigation.

Lake Preservation: \$2,500,000

Preserve and upgrade the existing lakes that reduce stormwater and improve water quality.

Wycliff Road Lake Rehabilitation/Preservation: \$700,000

This project will repair and rehabilitate the dam at Wycliff Road Pond. The spillway and outlet structure is undersized, causing downstream flooding of Wycliff Road and Lake Boone Shopping Center, and flooding of the apartments around the pond. Improvements will allow the dam to meet North Carolina Dam Safety Standards.

Camp Durant Lake Rehabilitation/Preservation: \$500,000

Design services and construction for the repair of a failing dam

Stormwater Capital Reserve: \$500,000

Funding of a capital reserve program to be developed as future proceeds are received.

Stormwater Utility ProgramStormwater System Repairs: \$4,000,000

Repair to stormwater system facilities in accordance with policies approved by City Council.

Petition Projects: \$2,500,000

Funding of drainage petition projects approved by City Council for construction under the City Storm Drainage Policy.

Maintenance Reserve: \$5,000,000

Funding of a maintenance program as recommended by the Stormwater Utility Funding Study.

Flood Mitigation: \$2,500,000

Funding to buyout or elevate structures within the 100 year floodplain.

Method Road Drainage: \$470,000

This project will replace and install storm drainage improvements along Method Road. This will involve additional storm drainage structures in Method Road, piping, traffic control / road closures, and possible upgrades to the storm drainage system on private property between Stedman Road and Wilder Road.

Simmons Branch Tributary Drainage: \$4,000,000

Replace and upgrade pipes along the Simmons Branch Tributary from Kaplan Drive to Swift Drive at eight locations to reduce roadway and structural flooding.

Woodbend Drive Culvert Upgrade: \$1,300,000

Replace existing arch culvert with three 10 by 10 concrete box culverts. Project will decrease structure flooding to three (3) apartment buildings and road flooding. This project is recommended in the Mine Creek Stormwater study.

New Hope Church Road Culvert Upgrade: \$1,500,000

Replace existing undersized culvert under the New Hope Church Road along the New Hope Tributary. Roadway approach grades will need to be adjusted.

Longstreet Drive Culvert: \$1,300,000

Replace corrugated metal 72-inch pipe with a 10-foot wide by 8-feet high concrete box culvert. This will reduce flooding to eight (8) condominiums and two (2) residences.

Newton Road Culvert: \$1,650,000

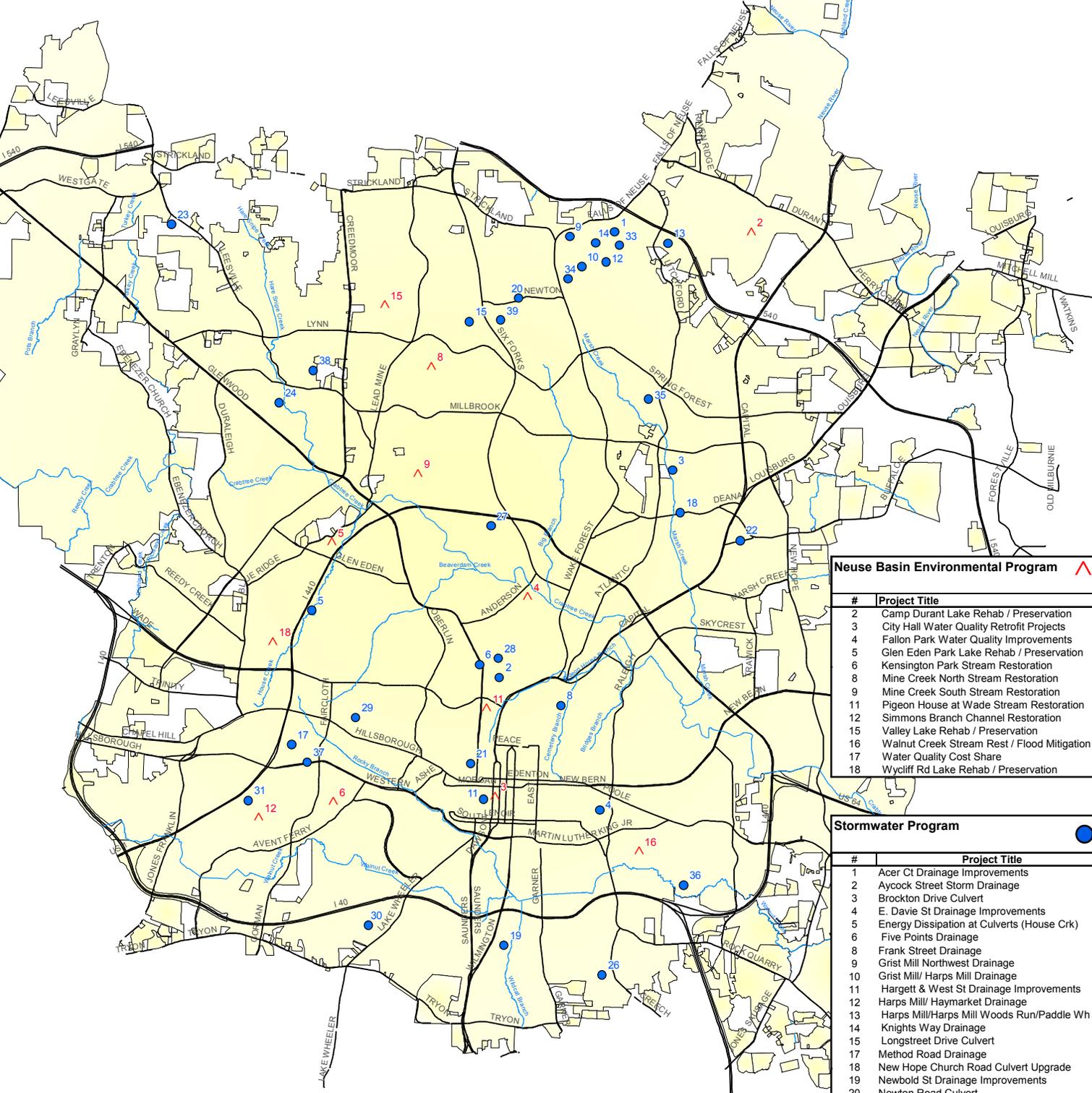
Replace existing 72-inch pipes with a 10-foot wide by 8-foot high concrete box culvert.

Walnut Creek Drainage Infrastructure: \$1,250,000

This future series of projects will begin to address higher priority storm drainage infrastructure improvement projects identified within the Walnut Creek Watershed Study and Master Plan. Projects may include culvert upgrades, drainage system improvements, channel stabilization, and other drainage infrastructure improvements.



City of Raleigh Public Works Department Stormwater Utility



Neuse Basin Environmental Program	
#	Project Title
2	Camp Durant Lake Rehab / Preservation
3	City Hall Water Quality Retrofit Projects
4	Fallon Park Water Quality Improvements
5	Glen Eden Park Lake Rehab / Preservation
6	Kensington Park Stream Restoration
8	Mine Creek North Stream Restoration
9	Mine Creek South Stream Restoration
11	Pigeon House at Wade Stream Restoration
12	Simmons Branch Channel Restoration
15	Valley Lake Rehab / Preservation
16	Walnut Creek Stream Rest / Flood Mitigation
17	Water Quality Cost Share
18	Wycliff Rd Lake Rehab / Preservation

Stormwater Program	
#	Project Title
1	Acer Ct Drainage Improvements
2	Aycock Street Storm Drainage
3	Brockton Drive Culvert
4	E. Davie St Drainage Improvements
5	Energy Dissipation at Culverts (House Crk)
6	Five Points Drainage
8	Frank Street Drainage
9	Grist Mill Northwest Drainage
10	Grist Mill/ Harps Mill Drainage
11	Hargett & West St Drainage Improvements
12	Harps Mill/ Haymarket Drainage
13	Harps Mill/Harps Mill Woods Run/Paddle Wh
14	Knights Way Drainage
15	Longstreet Drive Culvert
17	Method Road Drainage
18	New Hope Church Road Culvert Upgrade
19	Newbold St Drainage Improvements
20	Newton Road Culvert
21	North St Drainage Improvements
22	Old Buffaloe Road Pipe Upgrade
23	O'Neal Rd Culvert
24	Parkwood Drive Drainage Upgrade
26	Quince Street Drainage
27	Ramblewood Dr Drainage Improvements
28	Roanoke Park Neighborhood Drainage
29	Shepard/ Merriman Storm Drainage
30	Sierra Drive Storm Drainage
31	Simmons Branch Tributary Drainage
33	Strohmore/ Harps Mill Way Drainage
34	Tanbark Way Drainage
35	Timber Ridge Drainage Improvements
36	Walnut Creek Drainage Infrastructure
37	Western Blvd (3900) Drainage
38	Winthrop Dr Culvert
39	Woodbend Drive Culvert Upgrade

2011-2015 STORMWATER UTILITY Capital Improvement Projects (CIP)

- Legend**
- Neuse Basin Environmental Program
 - Stormwater Program



Housing Program

The City has provided funding for an affordable housing program since the mid-1980s. The program's resources are utilized to reduce the cost of development, to finance the rehabilitation of housing for citizens of low to moderate incomes, or to provide down-payment assistance to first time homebuyers.

Housing program funds are leveraged as loans to developers, contractors, or first-time homebuyers as a method of reducing the cost of capital. When loan proceeds are repaid to the City, they are considered as a resource that may be applied to other housing developments, homeowner loans, or to retire the debt from bonds, if that was the source of original financing.

Funding for this program will be applied in several ways: as second mortgage loans to first-time homebuyers; as loans to supplement development of rental housing using low-income housing tax credits; to add to the City's inventory of rental housing for lower income families; as loans to low-income homeowners for limited, emergency-type repairs; as loans to non-profit developers supporting the 10 year plan to end homelessness; as loans to low-income homeowners whose homes need substantial rehabilitation and to revitalize the City's inner core of older neighborhoods.

Funding for Phase I of the housing program includes \$6,825,000 approved in the October 2005 Bond referendum and \$3,185,000 in program income and prior year reserves. For the past 20 years, the main source of funding for the housing program has been bonds. Additional City and Federal funding for comparable affordable housing development and rehabilitation activities is included in the operating budget of the Community Development Department. Appropriations from the current bond authorization will end in FY12. Future projects will be funded from revenues generated by the program. However, recent estimates suggest a significant shortfall in the next few years.

Ten-Year Summary of the Housing Program

	PHASE I	PHASE II	TOTAL
Housing	\$ 10,010,000	\$ -	\$ 10,010,000
TOTAL	\$ 10,010,000	\$ -	\$ 10,010,000

Project Costs and Funding Plan for Housing Program

Community Development Projects		2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
1	First Time Home Ownership	\$ 1,285,000	\$ 315,000	235,000	235,000	\$ -	\$ 2,070,000
2	Joint Venture Rental	2,735,000	-	-	-	-	2,735,000
3	Rehab/ Purchase of Housing Units and Land	750,000	-	-	-	-	750,000
4	Homelessness Plan and Support	700,000	-	-	-	-	700,000
5	Homeowner Repair Loan Program	940,000	815,000	-	-	-	1,755,000
6	Limited Repair Program	400,000	-	75,000	75,000	-	550,000
7	Loan Servicing	90,000	90,000	90,000	90,000	90,000	450,000
8	Neighborhood Revitalization	1,000,000	-	-	-	-	1,000,000
Total Project Costs, Community Development		\$ 7,900,000	\$ 1,220,000	\$ 400,000	\$ 400,000	\$ 90,000	\$ 10,010,000

70

Program Funding Resources		2010-11	2011-12	2012-13	2013-14	2014-15	Phase I Summary
	2005 Bond Proceeds	\$ 6,825,000	\$ -	\$ -	\$ -	\$ -	\$ 6,825,000
	Program Income	475,000	1,000,000	400,000	-	-	1,875,000
	Prior Year Reserves	600,000	220,000	-	400,000	90,000	1,310,000
Total Funding Plan, Community Development		\$ 7,900,000	\$ 1,220,000	\$ 400,000	\$ 400,000	\$ 90,000	\$ 10,010,000

Phase I - Housing

1. First Time Home Ownership: \$2,070,000

These funds will be used to provide second mortgage financing consisting of low-interest loans of up to \$20,000 that can be used to finance a down payment on a new or existing residence citywide and up to \$30,000 for residences located in the inner city redevelopment areas including the State Street/ Garner Road and other approved developments.

2. Joint-Venture Rental: \$2,735,000

These funds will provide low-interest loans to private housing developers (both non-profit and for profit) to construct or rehabilitate affordable rental housing units. This program leverages other funds including Wake County Housing dollars; NCHFA tax credits and funds from private lenders.

3. Rehabilitation/ Purchase of Housing Units and Land: \$750,000

These funds will be used to purchase land, rehabilitate multifamily units or construct new city owned rental units for low income citizens or Raleigh who do not qualify for public housing.

4. Homelessness Plan and Support: \$700,000

These funds will go towards housing programs in support of the ten-year plan to end homelessness, focusing on single individuals needing housing and other services.

5. Homeowner Repair Loan Program: \$1,755,000

This project will provide loans for substantial rehabilitation to homes of eligible homeowners who live within the targeted areas. Loans will discount and can be used with other repaying and forgivable loans.

6. Limited Repair Program: \$550,000

These funds will provide emergency rehabilitation for low income homeowners within the city limits of Raleigh. Homes must be occupied by an owner with income at or below 50% of the median and the home must be in need of repairs that if left unattended will pose a threat to the occupant's health and safety. A maximum of \$5,000 per unit can be used for each qualifying applicant.

7. Loan Servicing: \$450,000

This activity will allow funding for the servicing of the loans funded with Bond funds. The City has outsourced this activity and fees will be paid from funds generated from interest earned on the repaying loans

8. Neighborhood Revitalization: \$1,000,000

These funds will support neighborhood preservation and revitalization efforts to improve the quality of life for Raleigh's residents by increasing and improving the existing housing stock and undertaking redevelopment type activities to mitigate blighted conditions citywide.

Phase II - Housing

No funds have been budgeted for Phase II at this time. Phase I projected expenditure estimates include revenues generated from prior year loan repayments.



General Public Improvement Program

This section of the Capital Improvement Program includes projects for public safety, general facility improvements, and economic development. Public improvements associated with the support of City operations are not set aside in distinct CIP programs. Improvements include the construction and outfitting of new fire stations and other City support facilities, workspace for office and operational requirements, downtown streetscapes and improvement projects, and general repairs and maintenance of public buildings and facilities.

Total funding for general public improvement projects in Phase I is \$125,123,214. Major sources of funding for projects within this section are the 1/2-cent local option sales tax, and projected Certificates of Participation. While an emphasis in this CIP has been to address facility maintenance and repair issues, there remain a number of identified needs in Phase I of the CIP which include three new fire stations, expansion of the fire training facility, police district stations, and a police training facility. There is no identified funding source for the construction costs associated with these additional projects and consideration of bond funding is recommended. The current Phase II funding needs are estimated at \$127,154,909.

Ten-Year Summary of the General Public Improvement Program

	PHASE I	PHASE II	TOTAL
Bond Funded Fac. & Major Renovation Const.	\$ 95,427,738	\$ 116,050,348	\$ 211,478,086
Facilities & Major Renovation Planning	6,847,664	8,254,400	15,102,064
Facility Improvements	7,876,900	1,000,000	8,876,900
Technology, Equipment, Other	11,095,912	1,850,161	12,946,073
Economic Development	3,875,000	-	3,875,000
TOTAL	\$ 125,123,214	\$ 127,154,909	\$ 252,278,123

Project Costs and Funding Plan for General Public Improvement Program

Bond Funded Facilities, Major Construction		2010-11	2011-12	2012-13	2013-14	2014-15	Phase 1 Summary
B-1	Remote Operations Facility, Northeast	\$ 27,966,579	\$ 1,140,165	\$ 6,363,922	\$ -	\$ -	\$ 35,470,666
B-2	Remote Operations Facility, Wilder's Grove	933,287	-	-	-	-	933,287
B-3	Remote Operations Facility, Downtown	-	-	2,411,285	-	-	2,411,285
B-4	Marsh Creek Maintenance Facility	-	-	18,223,926	-	-	18,223,926
B-5	Police District Stations	-	2,500,000	2,500,000	2,500,000	2,500,000	10,000,000
B-6	Fire Station 12 Relocation	-	-	657,300	3,749,300	-	4,406,600
B-7	Police Training Center Facility	-	-	426,071	13,984,303	-	14,410,374
B-8	Fire Station 3 Replacement	-	-	250,000	1,659,300	3,067,000	4,976,300
B-9	Fire Department Driving Training Facility	-	-	-	1,867,400	1,068,600	2,936,000
B-10	Fire Station 30	-	-	-	-	1,659,300	1,659,300
Subtotal, Bond Funded Fac, Major Construction		\$ 28,899,866	\$ 3,640,165	\$ 30,832,504	\$ 23,760,303	\$ 8,294,900	\$ 95,427,738

New Facilities & Major Renovation Planning		2010-11	2011-12	2012-13	2013-14	2014-15	Phase 1 Summary
P-1	Fire Station 12 Relocation	\$ -	\$ 75,000	\$ 831,000	-	\$ -	\$ 906,000
P-2	Fire Station 3 Replacement	-	-	989,400	-	-	989,400
P-3	Police Training Center Facility	-	994,164	-	-	-	994,164
P-4	Fire Department Driving Training Facility	-	-	679,300	-	-	679,300
P-5	Police District Stations	-	500,000	500,000	500,000	500,000	2,000,000
P-6	Fire Station 30	-	-	-	1,239,400	-	1,239,400
P-7	Fire Training Facility Expansion	-	-	-	-	39,400	39,400
Subtotal, New Fac & Major Renovation Planning		\$ -	\$ 1,569,164	\$ 2,999,700	\$ 1,739,400	\$ 539,400	\$ 6,847,664

Facility Improvements, Maintenance & Systems		2010-11	2011-12	2012-13	2013-14	2014-15	Phase 1 Summary
1	RMB Camera System	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ 75,000
2	Fire Station Improvements	150,000	200,000	150,000	200,000	200,000	900,000
3	Generator Installation, Wade Ave Building	260,000	-	-	-	-	260,000
4	Emergency Facility Maintenance	965,900	-	-	-	-	965,900
5	Fire Station Roof Repair & Replacement	-	310,000	310,000	310,000	31,000	961,000

Project Costs and Funding Plan for General Public Improvement Program

Facility Imprv, Maintenance & Systems (con't)		2010-11	2011-12	2012-13	2013-14	2014-15	Phase 1 Summary
6	Air Handler Unit Variable Speed Drive	-	480,000	340,000	-	-	\$ 820,000
7	Fire Station Backflow Prevention Devices	-	-	55,000	-	-	55,000
8	Design and Boiler Replacement at Municipal Bldg	-	-	320,000	-	-	320,000
9	Fire Station Backup Generators	-	-	460,000	475,000	-	935,000
10	Main Air Handler, OEP	-	-	-	-	850,000	850,000
11	Elevator Replacement, 310 W. Martin	-	-	-	-	300,000	300,000
12	Solar LED Batteries	-	-	-	-	25,000	25,000
13	RMB Restroom Lifecycle Replacements	-	-	-	-	475,000	475,000
14	Cooling Towers and Chiller, OEP	-	-	-	-	210,000	210,000
15	OEP Expansion of Control System Lighting	-	-	-	-	75,000	75,000
16	OEP Tenant Aesthetic Enhancements	-	-	-	350,000	-	350,000
17	City Space Needs	-	-	150,000	150,000	-	300,000
Subtotal, Fac Improvements, Maint & Systems		\$ 1,450,900	\$ 990,000	\$ 1,785,000	\$ 1,485,000	\$ 2,166,000	\$ 7,876,900

75

Technology, Equipment, Other		2010-11	2011-12	2012-13	2013-14	2014-15	Phase 1 Summary
1	Walnut Creek Amphitheater Improvements	\$ 401,677	\$ 416,667	\$ 431,677	\$ 446,677	\$ 460,000	\$ 2,156,698
2	Convention and Performing Arts Center Reserve	200,000	500,000	500,000	500,000	-	1,700,000
3	Sonet Fiber Network	-	956,631	1,869,778	2,258,805	-	5,085,214
4	Fire 800 MHz Radios	-	250,000	250,000	250,000	250,000	1,000,000
6	Burning Coal Theater	60,000					60,000
7	Raleigh Ensemble Players	60,000					60,000
8	Contemporary Art Museum	34,000	-	-	-	-	34,000
9	Sustainability Projects	-	250,000	250,000	250,000	250,000	1,000,000
Subtotal, Technology, Equipment, Other		\$ 755,677	\$ 2,373,298	\$ 3,301,455	\$ 3,705,482	\$ 960,000	\$ 11,095,912

Project Costs and Funding Plan for General Public Improvement Program

Economic Development		2010-11	2011-12	2012-13	2013-14	2014-15	Phase 1 Summary
1	Downtown Wayfinding Program	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 200,000
2	Façade Grant Program	-	100,000	50,000	50,000	50,000	250,000
4	Parking Decks Retail Ground Floor Upfit	-	300,000	-	-	-	300,000
5	Moore Square Implementation Strategy	-	350,000	1,000,000	-	-	1,350,000
6	Downtown West Gateway	-	100,000	-	-	-	100,000
7	Market Plazas (One Exchange to Transit Station)	-	175,000	1,500,000	-	-	1,675,000
Subtotal, Economic Development		\$ 40,000	\$ 1,065,000	\$ 2,590,000	\$ 90,000	\$ 90,000	\$ 3,875,000

Total Project Costs, General Public Improvements \$ 31,146,443 \$ 9,637,627 \$ 41,508,659 \$ 30,780,185 \$ 12,050,300 \$ 125,123,214

Funding Resources		2010-11	2011-12	2012-13	2013-14	2014-15	Phase 1 Summary
	General Fund	\$ 1,454,000	\$ 4,000,000	\$ 4,500,000	\$ 4,500,000	\$ 4,500,000	\$ 18,954,000
	Interest Income	125,000	125,000	150,000	175,000	200,000	775,000
	Fund Reserves	65,900	-	-	-	-	65,900
	Walnut Creek Amphitheater Rent	401,677	416,677	431,677	446,677	460,000	2,156,708
	Interlocal Agreement Funding	200,000	500,000	500,000	500,000	500,000	2,200,000
	Future COPs Funding	28,899,866	4,595,950	35,926,982	25,158,508	6,390,300	100,971,606
Total Funding Plan, GPI		\$ 31,146,443	\$ 9,637,627	\$ 41,508,659	\$ 30,780,185	\$ 12,050,300	\$ 125,123,214

Phase I – General Public Improvement

Bond Funded Facilities and Major Renovation Construction and Planning

B-1. Remote Operations Facility, Northeast: \$35,470,666

The acquisition, planning and construction of a new north East Remote Operations Facility for new Street Maintenance, Vehicle Fleet Service and Traffic Engineering facilities. This facility would be used for emergency storm operations. The estimate includes building and site work costs, off-site development costs, design development contingency, escalation and a construction contingency.

B-2. Remote Operations Facility, Wilder's Grove: \$ 933,287

The construction of a new Solid Waste and Vehicle Fleet Services Operations Facility on the existing Wilders Grove Landfill. The estimate includes building and site work costs, off-site development costs, design development contingency, escalation and a construction contingency.

B-3. Remote Operations Facility, Downtown: \$2,411,285

This item is for the construction of a new Downtown Remote Operations Facility for new Street Maintenance, Vehicle Fleet Service, Building Maintenance, Parks and Recreation and Traffic Engineering facilities. The estimate includes building and site work costs, off-site development costs, design development contingency, escalation and a construction contingency.

B-4. Marsh Creek Maintenance Facility: \$18,223,926

This Parks Operation facility is currently located on an existing property so no real estate acquisition is anticipated. Estimate of building and development costs were prepared using space requirements developed in a study by Carter Burgess. The estimate includes building and site work cost estimates as well as escalation and construction contingency.

B-5 / P-5. Police District Stations: \$12,000,000

As part of the FY09 Adopted CIP, the Police Department received funding for a study to identify and purchase available property and to explore the use of the procured land to build city-owned Precinct buildings to eliminate future leasing. Facilities will be built to the specifications of the Police Department to address the safety and security concerns unique to a full-service Police station. Opportunities to co-locate other City departments will be considered. This request incorporates the construction costs associated with the building of these facilities, which will require COPS funding.

B-6 / P-1. Fire Station 12 Relocation: \$5,312,600

Construction costs associated with the relocation of Station 12. The funding source for this project will be COPS funding.

B-7 / P-3. Police Training Center Facility: \$15,404,538

Construction costs associated with the building of a Police Training Center on Battle Bridge Road and adjacent to the current Police Firing Range facilities. The facility will be approximately 50,000 square feet in size. The funding source for this project will be COPS funding.

B-8 / P-2. Fire Station 3 Replacement: \$5,965,700

Construction costs associated with the building of a new fire station to replace existing Fire Station 3. The funding source for this project will be COPS funding.

B-9 / P-4. Fire Department Driving Training Facility: \$3,615,300

Construction costs associated with building a driver training facility located on approximately four acres of land potentially donated by the Raleigh Durham Airport Authority. The funding source for this project will be COPS funding.

B-10 / P-6. Fire Station 30: \$2,898,700

Construction costs associated with the building of an additional fire station necessary to maintain adequate fire protection coverage. The funding source for this project will be COPS funding.

P-7. Fire Training Facility Expansion: \$39,400

The current training facility is booked to capacity nearly every day and requires either expansion or construction of a new/additional facility. This is a long range goal that needs to be addressed due to the growth of the fire department and the inadequacy of the current training facility to conduct classroom and practical training simultaneously. It is not clear whether it will be possible to expand the Keeter Training Center or whether it will be necessary to secure land and construct a second facility somewhere else in the city. It is proposed that a consultant be engaged in FY15 to assess our needs and provide recommendations to meet them.

Facility Improvements1. RMB Camera System: \$75,000

Scope of work includes installation of camera security system throughout the Municipal Building. This system would protect employees, the public, property and deter unwanted entry at any time.

2. Fire Station Improvements: \$900,000

This project will fund repairs to kitchens, bathrooms, floors, windows, driveway and parking areas as well as other repairs/replacements needed to maintain these facilities. More than half of the city's fire stations/facilities are over 30 years old. Others are more than 40 years old. Renovations are needed at many of these facilities. The fire department wishes to preserve its buildings and to provide a safe environment for its firefighters who live in these facilities while on duty. Some of the improvements already made are saving money on utilities (installation of insulation, new windows, etc.). Improvements that implement sustainability goals are made when appropriate.

3. Generator Installation, Wade Avenue Building: \$260,000

This project will install an emergency back-up generator for the administrative and service areas in the Wade Avenue Parks and Recreation Building. This building serves as the main hub for events, programs, and camps.

4. Emergency Facility Maintenance: \$965,900

To fund emergency repairs and maintenance to facilities as they arise during the year. In past years, repairs and maintenance concerns have been addressed through the reallocation of funding sources or delayed until such time as funding available. This will reduce that dependency.

5. Fire Station Roof Repair and Replace: \$961,000

This project repairs or replaces the roofs on selected fire facilities prioritized by construction management after evaluation by a roofing consultant. Many Raleigh fire stations are 30 to 40+ years old. We have worked with Construction Management and have had the station roofs evaluated by a roofing consultant. The Fire Department currently has a single station with a green roof. If funding allows future roof replacement will include green roof projects when feasible.

6. Air Handler Unit Variable Speed Drive: \$820,000

Scope of work includes the design and bid package for replacing the Variable Speed Drive Air Handler Unit. Continuation of project in Phase 2 for FY 10-11, and anticipation of project completion in Phase 3 of FY 11-12. Appropriations have been received for FY 09-10 for Phase I design.

7. Fire Station Backflow Prevention Devices: \$55,000

This project will install backflow devices within the water supplies at 14 fire stations throughout the City in accordance with municipal requirements.

8. Design and Boiler Replacement at Municipal Building: \$320,000

The scope of work includes design and replacement of boiler at Municipal Building. Boiler has reached the end of its lifecycle, and needs to be replaced. Energy efficient concepts will be applied into design and project implementation.

9. Fire Station Backup Generators: \$935,000

This project provides installation of stand by generators at all fire department facilities that are not currently equipped to enable continuity of service. Newer fire stations were equipped with backup generators when they were constructed in accordance with Department of Homeland Security recommendations. Older stations do have portable gasoline-powered generators; however, these generators cannot be left unattended, will not power the entire facility, and gasoline may not always be available to fuel them. This funding will allow standby generators to be installed at all facilities over the next three years.

10. Main Air Handler, OEP: \$850,000

Scope of work includes first the design and bid package for replacing the Main Air Handler Coil at One Exchange Plaza. This will allow for proper air flow, heating and cooling to each room.

11. Elevator Replacement, 310 W. Martin: \$300,000

The scope of work includes elevator replacement of (2) passenger cars at 310 W. Martin Street. Proactive maintenance ensures that elevators work properly and experience a minimum amount of down time and are structurally safe.

12. Solar LED Batteries: \$25,000

The scope of work will include replacement of Solar LED Batteries at Campbell University Parking Lot at 301 Hillsborough Street, Marsh Creek Maintenance Facility, and City Plaza on Fayetteville Street. The batteries have a lifecycle of 5 years.

13. RMB Restroom Lifecycle Replacements: \$475,000

This project includes the replacement of partitions throughout stalls and installation of new shower fixtures.

14. Cooling Towers and Chiller, OEP: \$210,000

Scope of work includes replacement of existing cooling tower, including basin and piping that will provide efficient water cooling for air conditioning, manufacturing and electric power generation. If this request is cancelled or delayed this piece of critical equipment may not continue to work properly; due to the age of the equipment replacement parts may not be readily available.

15. OEP Expansion of Control System Lighting: \$75,000

The scope of work includes the installation of a Building Automation Control System Lighting. Building Automation Systems core functionality keeps the building climate within a specified range, provides lighting based on an occupancy schedule, monitors system performance and device failures, and provides email and/or text notifications to building engineering staff. Lighting can then be controlled based on the time of day or by occupancy timers.

16. OEP Tenant Aesthetic Enhancements: \$350,000

This project includes aesthetic improvements to One Exchange Plaza. Entrance and lobby areas are frequent gathering places for building occupants and were designed to encourage interaction. These areas and tenant suites need to be upgraded to be visually stimulating, prominent and contribute to the health, welfare and quality of life to ensure continual stream of revenue for building upkeep.

17. City Space Needs: \$300,000

This funding request is for providing City department space in order to accommodate their current and future staff growth. The funding will go towards upfitting City owned or leased space in order to meet the O'Brien Atkins' space guidelines as well as the operational needs of the department. Possible space funding needs includes: upfit current city owned space, secure/upfit potential lease space, relocation of departments/divisions.

Technology, Equipment, Other1. Walnut Creek Ampitheater Improvements: \$2,156,698

This funding will provide for various facility maintenance and improvements to the ampitheater structure and grounds.

2. Convention and Performing Arts Center Reserve: \$1,700,000

This is reserve funding from a portion of the annual appropriation the city receives from the Wake County Prepared Food and Beverage tax, to be utilized for future, undesignated capital maintenance at both the Convention and Performing Arts Centers.

3. Sonet Fiber Network: \$5,085,214

The SONET network will provide a city-owned and maintained network for all city facilities. Currently, these facilities use rented network connections (from TimeWarner or AT&T) that are costly and have reliability issues. This project consists of running fiber to city buildings and implementing network equipment to carry network traffic across the fiber. This will result in a secure, resilient network that will provide high-bandwidth to sites and position the city for future network growth.

4. Fire 800 MHz Radios: \$1,000,000

Funding to begin a five year \$250,000 per year replacement program for 800 MHz radios as they reach the end of their projected life expectancy.

5. Burning Coal Theater: \$60,000

This funding will provide funding to pay off capital debt on the Murphey School Restoration Project. The specific areas that were addressed were the fire protection system (sprinklers), storm windows, and entrance ramp and stairs.

6. Raleigh Ensemble Players: \$60,000

Completion of performance space for Raleigh Ensemble Players. Scope of the work includes completion of lobby, accessible bathrooms, performance space, and public event space.

7. Contemporary Art Museum: \$34,000

This funding will provide capital matching funds to the Contemporary Art Museum.

8. Sustainability Projects: \$1,000,000

Funding for this project will go towards establishing a fund to be used for city initiatives that will increase the sustainability of the city. Typical funded projects will be those that reduce energy/fuel consumption and solid waste as well as fund other city 'green' initiatives.

Economic Development1. Downtown Wayfinding Program: \$200,000

The Downtown Wayfinding Program intends to design a new wayfinding system for access to and circulation within downtown addressing the deficiencies of the existing wayfinding signage, acknowledging the particular constraints of a mode of travel (vehicular speed, one way streets, pedestrians, new visitors, etc.) The system serves to both direct visitors (and therefore reduce unnecessary traffic) and inform them of our tourist destinations (museums, districts, convention center)

2. Façade Grant Program: \$250,000

This program provides funding for the rehabilitation of older commercial properties with matching cash grants for exterior improvements to assure compliance with design standards specific to Pedestrian Business Overlay Districts (PBOD) streetscape plans, the Fayetteville Street Urban Design Manual, Downtown Urban Design Guidelines, or the 2030 Comprehensive Plan.

3. Parking Decks Retail Ground Floor Upfit: \$300,000

This project is part of the approved Council Resolution 1990 678 - Design Guidelines for Parking Structures, to include retail as a component of city owned parking structures. Parking structures in downtown will become prime candidates for retail, but the City will need to finance the upfit of the spaces to close deals with interested tenants, particularly in the current economy. The project also fulfills the City's Livable Streets Plan goals of activating the street level portions of existing buildings in the Downtown and enhancing the pedestrian environment. The Blount Street parking deck was designed and built with retail spaces on the ground floor. This funding would provide for the upfit to a condition that retail clients could then work from for their own needs. It also contains a provision for the development of street-level retail as part of the development agreement with RBC/Highwoods.

4. Moore Square Implementation Strategy: \$1,350,000

This program is intended to implement the Moore Square South Development Strategy. Outcomes include strengthening the Moore Square south neighborhood and linking neighborhoods to the Downtown core. The development strategy targets the use/development of City-owned property to further catalyze private sector residential development on the south and east of Moore Square.. This program provides funding for assessing needed infrastructure improvements, engineering feasibility studies and construction of improvements to support the redevelopment of City- and privately-owned parcels identified in the Moore Square South Development Strategy area.

5. Downtown West Gateway: \$100,000

This proposal will provide funding to prepare a preliminary design for streetscape improvements to include sidewalks, street trees, parking, public areas, utility relocations, and other public improvements along South, Lenoir and Cabarrus Streets in the South Saunders Redevelopment Area as part of the implementation of the Downtown West Gateway Area Plan. The streetscape plan for the Downtown West Gateway area along with 24 other streetscape plans are being prioritized for City Council consideration. Downtown West is the top project based upon the evaluation criteria and funding to support the streetscape design should be included in the upcoming FY.

6. Market Plazas (One Exchange to Transit Station): \$1,675,000

Design and implementation of plans to improve the pedestrian plazas, crosswalk, and transit station pedestrian areas in the 200 block of Fayetteville Street that connect Fayetteville Street, One Exchange Plaza, the Moore Square Transit Station and Moore Square. It would include hiring a consultant to design the plazas and pedestrian ways and constructing the improvements, which could include lighting, plantings, furniture, new pavers/sidewalk materials, and public art.

Phase II - General Public Improvement

New Facilities and Major Renovation Construction

Remote Operations Facility, Downtown: \$36,569,621

This item is for the construction of a new Downtown Remote Operations Facility for new Street Maintenance, Vehicle Fleet Service, Building Maintenance, Parks and Recreation and Traffic Engineering facilities. The estimate includes building and site work costs, off-site development costs, design development contingency, escalation and a construction contingency.

Remote Operations Facility, Mt. Herman: \$55,782,127

This item is for the construction of a new North West Remote Operations Facility for new Street Maintenance, Vehicle Fleet Service, Building Maintenance, Parks and Recreation and Traffic Engineering facilities. The estimate includes building and site work cost estimates as well as estimate of off-site development costs, design development contingency, escalation and construction contingency.

Remote Operations Facility, Wilder's Grove: \$20,631,600

This item is for the construction of a new Solid Waste and Vehicle Fleet Services Operations Facility on the existing Wilders Grove Landfill. The estimate includes building and site work costs, off-site development costs, design development contingency, escalation and a construction contingency.

Fire Station 30: \$3,067,000

This estimate reflects the cost of constructing a fire station that includes LEED policy.

New Facilities and Major Renovation PlanningPolice District Stations: \$2,500,000

The construction costs associated with the building of police district facilities to the specifications of the Police Department to address the safety and security concerns unique to a full-service Police station. Opportunities to co-locate other City departments will be considered.

Fire Training Facility Expansion: \$5,754,400

This is a long range goal that will need to be addressed due to the growth of the fire department and the inadequacy of the current training facility. It might be possible to expand the Keeter Training Center but it could be necessary to secure land and construct a second facility somewhere else in the city. It is proposed that a consultant be engaged early to assess our needs and provide a recommendation. At that point, it will be possible to provide more concrete cost projections for this project.

Facility ImprovementsFire Station Improvements: \$1,000,000

More than half of the city's fire stations are over 30 years old. Others are more than 40 years old. Renovations are needed at many of these stations. Over the next five years, this request will pay for repairs to kitchens, bathrooms, floors, windows, boilers, driveway and parking areas as well as other repairs/replacements needed to maintain these facilities.

Technology, Equipment, OtherFire 800 MHz Radios: \$500,000

Continuation of previous CIP projects which provided funding for new and replacement costs for 800 MHz radios.

Defibrillator: \$100,161

Funding to begin a project to replace defibrillators carried on Fire Department first response vehicles every five years.

Sustainability Projects: \$1,250,000

Funding for this project will go towards establishing a fund to be used for city initiatives that will increase the sustainability of the city. Typical funded projects will be those that reduce energy/fuel consumption and solid waste as well as fund other city 'green' initiatives.

Resolution Adopting the Capital Improvement Program

Resolution No. (2010 – 189), City of Raleigh, Fiscal Years 2010-11 Through 2019-20

WHEREAS, a Proposed Capital Improvement Program for Fiscal Years 2010-11 through 2019-20 was presented to the City Council on May 18, 2010; and

WHEREAS, the Proposed Capital Improvement Program described major capital projects, funding schedules, and a capital financing plan recommended by the City Administration; and

WHEREAS, the Capital Improvement Program provides a comprehensive framework for accomplishing needed public improvements;

NOW THEREFORE BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF RALEIGH:

Section 1. That the document titled "*Proposed Capital Improvement Program, 2010-11 through 2019-20*" is hereby amended as follows:

Water Main Replacement/Rehab (Water Revenue Bond) - \$1,250,000.

This project funding increased by \$200,000 in FY11 of Public Utilities Program, Page 24, Item 24.

Transit Projects – \$1,209,750.

This project funding increased by \$969,750 in FY11 of the Transportation Program, Page 13, Item 1.

Parking Improvement Program – \$615,000.

This project has been adjusted by \$60,000 in Transportation Program, Page 13, Item 1 – Parking Deck Maintenance reduced by \$146,000 and Item 2 – Parking Deck Assessment & Repairs increased by \$86,000.

Street Resurfacing – \$2,938,211.

This project has been decreased by \$969,750 in FY11 of the Transportation Program, Page 12, Item 1.

Economic Development - \$194,000.

Raleigh Ensemble Players - \$60,000, Burning Coal Theater \$60,000, and Contemporary Art Museum - \$34,000. These projects are funded in FY11 of the Economic Development section of the General Public Improvement Program, Page 78.

Upper Neuse Initiative and Water Quality (Falls Lake Initiative) – \$1,000,000. This project has been funded in FY11 of the Public Utilities Program, Page 24, Item 13.

Section 2. That the document titled "*Proposed Capital Improvement Program, 2010-11 through 2019-20*" is adopted as a policy to guide capital budgeting, financial planning, project schedules, and other activities related to the accomplishment of capital projects.

Section 3. That the adopted Capital Improvement Program supersedes all previously adopted Capital Improvement Programs.

Section 4. Authorized project expenditures for 2010-11 represent appropriations necessary for the completion of projects and therefore do not require re-appropriation in any subsequent fiscal year.

Section 5. That the adopted Capital Improvement Program may be amended by the City Council with budgetary actions or other actions related to the authorization of specific projects and by the adoption of future Capital Improvement Programs.

Adopted: June 28, 2010

Effective: July 1, 2010

Distribution: City Council
City Manager
City Attorney
Assistant City Managers
Budget Staff
Finance Staff
Department Heads

FY11 CIP Project Codes

Project	Description	Fund Code	Description Department		PCBus Unit	Description
General Public Improvement Program						
83610000	Walnut Creek Amphitheater Impv	650	Walnut Creek Amph Cap Impv Fund	6011	CIP00	GPI
87590000	Raleigh/Wake Wireless 911	711	Wireless 911 Tax Fund	4410	CIP00	GPI
87590000	Raleigh/Wake Wireless 911	711	Wireless 911 Tax Fund	4410	CIP00	GPI
87590000	Raleigh/Wake Wireless 911	711	Wireless 911 Tax Fund	4410	CIP00	GPI
88540010	RMB Camera System	505	Capital Projects Fund-Miscellaneous	6290	CIP00	GPI
88540020	Wade Ave Bldg Generator	505	Capital Projects Fund-Miscellaneous	6290	CIP00	GPI
88980000	Convention Ctr/Bti - Annual M&	646	Rcc & Pac Projects Fund	6011	CIP00	GPI
89950000	Fire Station Improvements	505	Capital Projects Fund-Miscellaneous	4210	CIP00	GPI
90340100	Raleigh Ensemble Players	505	Capital Projects Fund-Miscellaneous	1060	CIP00	GPI
91950000	General Facility Maintenance	505	Capital Projects Fund-Miscellaneous	1410	CIP00	GPI
92340000	Burning Coal/Murphey Sch Match	505	Capital Projects Fund-Miscellaneous	1060	CIP00	GPI
94700000	Contemporary Art Museum	505	Capital Projects Fund-Miscellaneous	1060	CIP00	GPI
97030000	Dt Wayfinding Program	505	Capital Projects Fund-Miscellaneous	2410	CIP00	GPI
99130000	Remote Operations Northeast	508	Remote Ops Cap Projects Bond Fund	2210	CIP00	GPI
99150000	Remote Operations Wilder'S Gro	508	Remote Ops Cap Projects Bond Fund	2210	CIP00	GPI
Community Development - Housing Program						
75010000	Loan Servicing	720	Housing Bond Fund 6/96	3210	CIP04	Housing
75870000	Limited Rehab/Repair	724	Housing Bond Fund 2005	3210	CIP04	Housing
75880000	Neighborhood Revitalization	724	Housing Bond Fund 2005	3210	CIP04	Housing
75890000	Homelessness Plan-Support	724	Housing Bond Fund 2005	3210	CIP04	Housing
75930000	Homeowner Repair Program	720	Housing Bond Fund 6/96	3210	CIP04	Housing
86660000	First Time Home Ownership	724	Housing Bond Fund 2005	3210	CIP04	Housing
86670000	Joint Venture Rental	724	Housing Bond Fund 2005	3210	CIP04	Housing
86680000	Housing Units Purchase	724	Housing Bond Fund 2005	3210	CIP04	Housing
Information Technology Program						
79990050	Info Tech Fund Reserve Proj	501	Technology Capital Projects Fund	1810	CIP06	IT
79990050	Info Tech Fund Reserve Proj	501	Technology Capital Projects Fund	1810	CIP06	IT
79990050	Info Tech Fund Reserve Proj	501	Technology Capital Projects Fund	1810	CIP06	IT
97730000	Enterprise Resource Planning Project	502	ERP Project Fund	1810	CIP06	IT
Parks & Recreation Program						
80200000	Park Lighting	625	Park Improvement Fund	6210	CIP03	Parks & Recreation
81240000	Greenway Trail Resurfacing	625	Park Improvement Fund	6210	CIP03	Parks & Recreation
81980000	Mordecai Park	636	Park Bond Fund	6210	CIP03	Parks & Recreation
82320000	Park Site Improvements	625	Park Improvement Fund	6210	CIP03	Parks & Recreation
82360000	Parks Paving Program	625	Park Improvement Fund	6210	CIP03	Parks & Recreation

FY11 CIP Project Codes

Project	Description	Fund Code	Description Department		PCBus Unit	Description
91230000	Hillsborough/Blue Ridge-Grad S	515	Sidewalk Fund	2210	CIP02	Transportation
92770000	Parking Deck Maint & Improvement	446	Parking Facilities Fund-Project	2210	CIP02	Transportation
94550000	Falls Of Neuse Realign & Widening	531	Street Bond Fund	2210	CIP02	Transportation
94850000	Parking Meter Replacement	446	Parking Facilities Fund-Project	2210	CIP02	Transportation
Public Utilities Program						
80100000	Annexation-Water	320	Water Capital Projects Fund	5210	CIP01	Public Utilities
80310001	Water Service Replacement	348	Water Revenue Bond Fund 2004	5210	CIP01	Public Utilities
81000010	EMJ WTP UV Solids Handling	348	Water Revenue Bond Fund 2004	5210	CIP01	Public Utilities
81010020	Falls Lake Hydroelectric Project	348	Water Revenue Bond Fund 2004	5210	CIP01	Public Utilities
81010030	Zebulon Water Tank Rehabilitation	348	Water Revenue Bond Fund 2004	5210	CIP01	Public Utilities
83370000	Thoroughfare Mains	320	Water Capital Projects Fund	5210	CIP01	Public Utilities
84680000	Main Replacement	348	Water Revenue Bond Fund 2004	5210	CIP01	Public Utilities
84680000	Main Replacement	320	Water Capital Projects Fund	5210	CIP01	Public Utilities
90190000	Water Booster Pump Sta Rehabilitation	348	Water Revenue Bond Fund 2004	5210	CIP01	Public Utilities
90250000	Emj Bulk Storage Tank Replacement	348	Water Revenue Bond Fund 2004	5210	CIP01	Public Utilities
90260000	Water Tank Rehab/Maintenance	348	Water Revenue Bond Fund 2004	5210	CIP01	Public Utilities
92070000	Em Johnson Facility Rehabilitation	348	Water Revenue Bond Fund 2004	5210	CIP01	Public Utilities
92850000	Emjwtp Clearwell Rehabilitation	348	Water Revenue Bond Fund 2004	5210	CIP01	Public Utilities
93950000	Emjwtp Lagoon Sludge Removal	348	Water Revenue Bond Fund 2004	5210	CIP01	Public Utilities
94050000	Wf Water Plant Decommissioning	348	Water Revenue Bond Fund 2004	5210	CIP01	Public Utilities
94870000	Water Dist Wq Prog, Study	348	Water Revenue Bond Fund 2004	5210	CIP01	Public Utilities
94910000	Little R Reservoir Impact Stmt	348	Water Revenue Bond Fund 2004	5210	CIP01	Public Utilities
97770000	Em Johnson Wtp Warehouse Expansion	348	Water Revenue Bond Fund 2004	5210	CIP01	Public Utilities
97820000	Little River Reservoir County	348	Water Revenue Bond Fund 2004	5210	CIP01	Public Utilities
99370000	Falls Lake Initiative	348	Water Revenue Bond Fund 2004	5210	CIP01	Public Utilities
80110000	Annexation-Sewer	349	Sewer Revenue Bond 2004	5210	CIP01	Public Utilities
80400001	New Crabtree Crk Pump Sta & Eq	349	Sewer Revenue Bond 2004	5210	CIP01	Public Utilities
81010040	WF Richland Crk Intercept Improvement	349	Sewer Revenue Bond 2004	5210	CIP01	Public Utilities
81010050	WF Smith Crk Intercept Improvement	349	Sewer Revenue Bond 2004	5210	CIP01	Public Utilities
83310000	System Capacity Analysis	325	Sewer Capital Projects Fund	5210	CIP01	Public Utilities
84680000	Main Replacement	349	Sewer Revenue Bond 2004	5210	CIP01	Public Utilities
90300000	Sanitary Sewer Pump Sta Removal	349	Sewer Revenue Bond 2004	5210	CIP01	Public Utilities
91690000	Crabtree Cr/Glenwood To Capital	349	Sewer Revenue Bond 2004	5210	CIP01	Public Utilities
91890000	Nrwwtp Facility Improvements	349	Sewer Revenue Bond 2004	5210	CIP01	Public Utilities
94960000	Nrwwtp 15 Mgd Expansion	349	Sewer Revenue Bond 2004	5210	CIP01	Public Utilities
97440000	Little Crk Wwtp Expan/Improvements	349	Sewer Revenue Bond 2004	5210	CIP01	Public Utilities
97980000	Wendell Infiltration & Inflow	349	Sewer Revenue Bond 2004	5210	CIP01	Public Utilities
98030000	Zebulon Infiltration & Inflow	349	Sewer Revenue Bond 2004	5210	CIP01	Public Utilities