

The City of Jacksonville Adopted Capital Improvements Plan Fiscal Year 2012-2016



Clean &
Green
Jacksonville



Clean & Green Jacksonville invites all of us to help improve our community. Through clean up activities, clean practices, greenways and green practices, Jacksonville wants to live a Clean & Green lifestyle. This is the rendering of the final design for the proposed Freedom Fountain.

**CITY OF JACKSONVILLE
CAPITAL IMPROVEMENT PLAN FY2012-2016**

TABLE OF CONTENTS

Introduction: Capital Improvement Planning

What is a CIP?.....	1
How to Read the Individual Project Detail Pages	1
Why Long-Term Planning	4
CIP Process.....	6
Project Expenditures: 2012-2016	9
Project Operating Impacts: 2012	12

CIP Summaries

Projects by Department.....	17
Department Summary.....	20
Projects by Funding Source	21
Funding Source Summary.....	25
Projects by Budget Item.....	26

Individual Projects:

Community Programs

Sturgeon City Boardwalk IV	29
Sturgeon City Civic & Environmental Ed. Center	30

Fire

Fire Station #5 West Gum Branch	33
Relocation of Northwoods Fire Station (#2)	35
Georgetown Training Facility Restroom/Improvements	37

Police

Public Safety Headquarters Facility.....	39
Firearms Training Range Improvements	41
Radio System Upgrade.....	43

Public Services – General

Public Service/Fleet Complex – Phase II	45
New Bridge Streetscape	47
Gateway Median Improvements.....	48
Freedom Fountain Phase II	49

Public Services – Sidewalks

NCDOT Partnered Pedestrian Improvements	51
FY12 Sidewalk Installation	52
Hargett Street Pedestrian Improvements	53
FY13 Sidewalk Installation.....	54

FY14 Bike Lanes	55
FY15 Sidewalk Improvements	56
FY16 Pedestrian Improvements	57

Public Services – Sewer

Inflow & Infiltration (I&I) Rehabilitation Phase I.....	59
Inflow & Infiltration (I&I) Phase II	61
Henderson Lift Station Upgrade	63
Warlick St and Koonce Cir Sewer Replacement (FY11)	65
Southwest Regional Lift Station (Springdale).....	67
Parkwood Regional Lift Station and Forcemain	68
Western Trunk Sewer (Lower)	69
WW Collection System Improvements – Main Outfall F1.....	70
Piney Green Road Sewer Infrastructure Improvements	71
SCADA for Wastewater Lift Stations	73
College St Sewer Replacement (FY12).....	74
Memorial Lift Station Replacement	76
Canterbury Lift Station Replacement	78
Frances, Cando and Palm Sewer Replacement (FY14).....	80
Country Club Villas Pump Station	82
Georgetown Pump Station Rehabilitation	83

Public Services – Streets

FY12 Street Reclamation	85
FY13 Street Reclamation	86
FY14 Street Reclamation	87
FY15 Street Reclamation	88
FY16 Street Reclamation	89

Public Services – Stormwater

Parkwood Area Stormwater Project.....	91
Brynn Marr Area Stormwater BMP Project.....	93
Country Club/Sandy Run Stormwater Project	95
Chaney Creek Bioremediation Phase II	97
Downtown Central Stormwater Phase I	98
Brynn Marr Area Storm Drainage Project	100
Zack Circle Stormwater Project	102
Downtown Central Stormwater Treatment Phase II	104
Pine Valley/Country Club Area Stormwater Project.....	106

Public Services – Combined Infrastructure

Jean Circle Water and Sewer Rehabilitation.....	107
Park Lane/Stratford Water and Sewer Rehabilitation.....	109

Public Services – Water

Water Supply and Treatment Facility	111
Sherwood Forest Water Supply Imp-Fire Protection	113
Water System Improvements Phase II	114
Piney Green and 17 Water Service Area.....	116
Zack Circle and Hargett St Water Line Replacement.....	117

FY14 Water Line Replacement	119
FY16 Water Line Replacement	121

Recreation & Parks

NC 24 Lejeune Boulevard Trail	123
Carolina Forest Park.....	125
Northeast Creek Park Phase I	126
Jack Amyette Recreation Center.....	127
Phillips Park	128
Riverwalk Crossing Park	130
Jacksonville Commons Phase III	131
Northwoods Recreation Center	132
Playground Surfaces – FY 2012.....	134
Wooten Park	135
Jacksonville Commons Skateboard Park Phase I	136
Handicap Accessible Playground	137
Kerr Street.....	138
Jacksonville Commons Skateboard Park Phase II.....	139
Playground Surfaces – FY 2013.....	140
Richard Ray All-American Park Phase II.....	141
Williamsburg Plantation Park	142
Trail Amenities	143
Trail Head Park.....	144
Northeast Creek Park Phase II	146
Playground Surfaces – FY 2014.....	147
Richard Ray All-American Park Phase III.....	148

Transportation

Jacksonville Commons Park and Ride	149
Intelligent Transportation System (ITS)	150
Multimodal Transportation Center	152

CITY OF JACKSONVILLE, NC

CAPITAL IMPROVEMENT PLANNING

*LONG-TERM CAPITAL PLANNING IS CRITICAL TO ECONOMIC DEVELOPMENT,
REVENUE, CASH FLOW AND DEBT FORECASTING*

WHAT IS A CIP?

A Capital Improvement Plan (CIP) is a list of identified capital projects and acquisition needs that cover five years, identifies financing alternatives and is formally adopted annually. The CIP:

- Discloses cost or expenditure estimates
- Identifies probable sources of financing
- Evaluates, prioritizes and schedules projects and acquisitions
- Estimates the potential impact of projects and acquisitions on the operating budget

A CIP is essentially a long-term plan. **Projects and acquisitions in the first year of the CIP forecast period become the capital budget for that budget year.** Most capital project or acquisition requests initially enter the CIP in one of the later planning years (that is, the fourth or fifth year) of the forecast period and then progress toward completion. This process creates a system for approval and completion of capital projects that supports planning and accountability.

Capital projects are defined as major, non-recurring investments in physical infrastructure and facilities that exceed \$50,000 in cost, require more than 12 months to complete and have a useful life of at least 5 years. The purchase and replacement of vehicles and technology equipment are not considered capital projects, but do meet the \$5,000 capitalization threshold and are considered capital assets. Investments in streets, sidewalks and utilities lines qualify based on the cost of the entire program, not necessarily individual projects.

How to Read the Individual Project Detail Pages

Following the Introduction and Summary section of this document are the individual project pages by department. Each page contains useful, detailed information. To aid the reader in better understanding each project page, a description of the material is explained and presented below using screen shots.

The header of the project page provides the five year capital improvement plan period and name of the document. The project number and project name are then listed along with a

picture of the project. The next section details the project type (expansion, improvement, new construction, reclamation, rehabilitation or replacement), useful life of the project, the category (building, parks, water/sewer lines, etc.), responsible department, contact person and priority or ranking of the project.

There are 4 priority options: committed to, high priority, medium priority and low priority. Committed projects have designated funding for capital and operating costs that have been approved by City Council. High priority projects meet a health or safety need, are legally mandated, address a maintenance or service requirement, are part of the Master Plan and/or align with current Council goals. Full or partial funding has been identified for high priority projects. Medium priority projects align with Council goals or maintain or improve a service, but delaying construction will not harm the public health or safety of the community or compromise legal requirements. Projects of this designation may or may not have funding. Finally, low priority projects relates to new or improved service or function, which is important but not imperative in comparison to other projects. Projects of this designation generally do not have identified funding.

The last section shown below identifies whether the project is part of a master plan, externally mandated (by a higher authority, such as the State), growth related and/or service related.

Capital Improvement Plan
City of Jacksonville, NC

2012 *thru* 2016

Project #	PD-08 GF0601
Project Name	Public Safety Headquarters Facility

Type	New Construction	Department	Police
Useful Life	30	Contact	Rick McIntyre/Mike Yamiero
Category	Buildings	Priority	C Committed To
Part of Master Plan	Y	Growth Related	Y
Externally Mandated	Y	Service Related	Y



The next two sections provide a description of the project and justification of need for the project. Project descriptions provide the most basic information about the components of the project along with updates, if the scope or timing has changed due to unforeseen circumstances. The justification section explains why the project is needed and potential consequences of not funding the project.

Description

This project replaces the old headquarters building. Construction of a new Police and Fire Headquarters facility is necessary to provide space to house the Administrative and Operational offices of these emergency services.

The request in FY09 of \$1,500,000 was allocated for land acquisition and planning and design fees. An additional \$500,000 was allocated in FY10 for the same purpose.

The land acquisition is being completed in FY10. The RFP and Proposal are being evaluated for the demolition of the existing structures on the acquired land. An architectural firm has been selected and the preliminary schematic drawings are being reviewed. The facility is estimated to contain approximately 91,000 square feet.

Demolition started in FY11. As of November 2010, all buildings but two have been demolished. Schematic drawings of the new facility are still under review. Construction is tentatively set to start in 2012.

Justification

The existing building is over 40 years old, is experiencing maintenance problems and is too small for the needs of the two departments. In addition, relocating this station further north provides better overall response coverage in the core area of the City. The current 26,000 square foot facility that houses the Police and Fire Departments has served the departments well; but because of the current demands, it is no longer able to provide the space these two departments require. Further, the age of the facility is beginning to take a toll on the exterior and interior spaces of the facility. A Facility Space Needs study was conducted in February 2006 which stated that the space needs of the Police Department to include current and future needs is 59,979 square feet. The space needs of the Fire Department to include current and future needs is 30,611 square feet.

Following the description and justification sections are the financial tables for the project. The first table displays project expenditures, or projected costs by type. In the example below the "Prior" column (\$3,814,000) lists all expenditures that were incurred prior to 2012 by type (planning/preliminary design, engineering/design, land/right of way, construction, equipment/furnishings, contingency, and construction administration) and vary by project. The anticipated expenditures for the five year period are listed next. The projected expenditures are listed by year and expenditure type and subsequently totaled for each year of the five year period. In 2012 \$11,638,892 is expected to be spent on engineering/design, construction, and construction administration with a set aside of \$1 million for project contingencies should actual costs exceed budgeted expenditures. If projected expenditures fall beyond the five year timeframe this would be reflected in a "Future" column, similar to the "Prior" column of the table. The total column is the sum of the expenditures in the five year period, and **does** include prior and future spending.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Planning/Preliminary Design	53,000							53,000
Engineering/Design	761,000	1,203,500						1,964,500
Land/Right of Way	3,000,000							3,000,000
Construction		10,310,000	10,310,000					20,620,000
Equipment/Furnishings			1,024,455					1,024,455
Contingency		1,000,000	1,000,000					2,000,000
Construction Administration		125,392	188,089					313,481
Total	3,814,000	12,638,892	12,522,544					28,975,436

The funding sources table below contains prior funding of \$4,452,543 and projected funding for 2012 of \$1,770,910 from General Fund and installment purchase revenue of \$22,661,983. Project funding must always match total project costs such that revenues and expenditures are balanced. The timing of funding sources is dependent upon the expected stages of project execution and may not mirror the timing of expenditures dollar for dollar. In this example, the installment purchase funding is slated to be issued in 2012 despite the fact that approximately

only half of these monies are needed in 2012 for expenditures. In the event that construction moves at a faster pace, the monies will be available. Of course, the reverse could also true and funding is only provided when it is necessary.

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
General Fund	4,542,543	1,770,910						6,313,453
Installment Purchase-General F		22,661,983						22,661,983
Total	4,542,543	24,432,893						28,975,436

If the project impacts the City’s operating budget this is explained in the “Budget Impact/Other” section along with any other items of importance. The operating budget financial impact is displayed in the “Budget Items” table and typically includes debt service, if debt is being issued to fund the project along with any other operating expenses for the five year planning period. Prior and future expenses will also be noted. In the example below, the impact to the City’s operating budget after fiscal year 2016 is expected to be \$27,106,807, which is comprised of debt service expenses.

Budget Impact/Other
<p>IMPACT IF CANCELLED OR DELAYED: Affects the life, safety and property protection of this area of the City. There will be a substantial impact on both the Police and Fire Departments if this project is cancelled or delayed. Both of these emergency services have been confined to a facility for the past several years that has insufficient space to fulfill the missions and operational capabilities of both departments. Facilities Maintenance Services continual support of the interior and exterior of the facility. ITS to support the computer and telephone equipment in the facility. Estimated Costs - Electricity - \$101,461, Water/Sewer - \$6,000, Sanitation - \$3,360 and Stormwater - \$3,744 = Total Cost \$114,565. The Fire/Police Depts over the past several years have been unable to expand the operations of the agencies to keep pace with the growth of the City due to lack of critical physical space. The cost of being unable to expand is difficult to quantify but does have a significant impact on the agency’s ability to effectively meet the needs of the community. -Building financed for 20 years at 5.0%</p>

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service		1,489,385	1,787,262	1,787,262	1,787,262	1,787,262	27,106,807	35,745,240
Operating Expense		114,565	118,001	121,542	125,188	128,944		608,240
Total		1,603,950	1,905,263	1,908,804	1,912,450	1,916,206	27,106,807	36,353,480

WHY LONG-TERM PLANNING

Long-term capital planning has three key benefits. First is cash flow planning. Cities have limited ability to adjust revenues and doing so often requires significant advance planning and/or can be politically difficult. This creates an institutional bias toward stability or incremental changes in revenue. Capital expenditures, in contrast, are large and can vary significantly from year to year. Tools, such as debt, can be used to smooth the cash flow requirements of capital expenditures, but successful, long-term utilization of a city’s debt capacity requires careful planning. Further, some forms of financing can require significant lead time to put in place, such as revenue bonds, or are only available on an intermittent basis, such as grants.

Second, the process forces prioritization to assist in assuring that limited resources are allocated to those projects supported by political consensus. When considering a specific project proposal, policy-making bodies must consider it in relationship to other potential

expenditures often asking the question, "What are the tradeoffs?" This question can only effectively be responded to in the context of long-range capital planning, which provides an opportunity to understand which projects are planned, the financial resources demanded, and how changes impact other projects.

Finally, the plan provides opportunities to both manage expectations and measure performance. By accumulating all of the project activity into a single source document that describes the expected timing and expense of the planned projects, the CIP provides visibility into project details for project proponents and supporters. It also assists in communicating the impact of operational and fiscal constraints on the timing and complexity of the project. It provides responses to questions such as: When will this project be done? What will this project cost and, in part, why can't this get done earlier or how can it get done earlier? Further, if a project keeps sliding back on the schedule, the CIP will highlight what is happening and provide clues as to potential causes.

In addition to these key benefits long-range planning through CIP formation and adoption also assists in coordinating dependent or related projects, facilitates personnel workload planning and/or staffing needs analysis, and provides a vehicle to see infrastructure investments planned in response to changing community needs or conditions - additional wastewater capacity in the face of growth, for example.

Financial Planning

A local government in a fast-growing region may have to rely heavily on debt and certain pay-as-you-go sources, such as facility fees, to finance the infrastructure needed to accommodate growth. On the other hand, local governments in areas where growth is limited or nonexistent are less likely to rely on debt and more likely to rely on certain other pay-as-you-go sources such as annual revenues earmarked for capital purposes, capital reserves and state grants and loans. Some benefits of financial planning through a CIP include:

- Achieve a balance between the use of cash reserves and debt financial resources
- Protect and improve a local government's bond rating
- State Grants and Low Interest Loan programs give priority points for an adopted CIP
- Use a variety of financing sources to support the CIP – diversification
- Enables officials to realistically foresee emerging capital needs and estimate project costs
- Allows time to plan projects and arrange financing

Accountability Benefits

The value of a CIP for communicating the progress of on-going and long-term projects and acquisitions is essential for providing information for economic development and constituent inquiries.

- What projects are on the list and when will they occur?
 - Economic Development decisions
 - Where is the City investing in water, sewer and streets?
 - Constituent inquiries
 - What is the status of a project I am interested in?
- What is the overall progress of the CIP?
 - Cash flow projections
 - Debt management

JACKSONVILLE'S CIP PROCESS

The steps in the CIP process generally mimic the steps followed in preparing the operating or annual budget. The process usually includes the following steps:

- **Formulate, review and approve goals and policies** – Local governing boards usually hold retreats to review, update and approve policies and goals to guide capital budgeting.
- **Identify needs** – During the fall, Department Heads review programmed projects and assess current capital needs for the upcoming budget year. Capital projects are selected that require repair, maintenance or replacement that, if not addressed, will result in higher costs in future years and infrastructure investments required to meet growth demands.
- **Determine costs** – City Staff work together to determine the full extent of project costs based on scope, timing, ongoing operational costs, land acquisition, etc. This process is applied to new projects and projects previously programmed in the Capital Plan to ensure the most accurate cost estimates are budgeted and any operational impacts are identified.
- **Develop financing strategies** – The Finance Department works with each Department to determine the best method for financing proposed projects. The selected financing strategies seek to:
 - Ensure reliability and stability of identified funding sources
 - Evaluate affordability of the strategy

- Diversify funding strategies:
 - Grants
 - Debt Financing
 - Facility Fees
 - User Fees
 - Pay-as-you-go
- **Prioritize** – Once projects are selected, costs determined and a funding strategy is identified a Capital Projects Committee, consisting of City staff, meets with each Department to review project forecasts and prioritize the request. The following criteria are considered in the prioritization of capital projects:
 - Necessary to ensure the health, welfare or safety of the community
 - Externally mandated
 - Links to an adopted Master Plan
 - Ties to Council Goals
 - Demanded due to growth or service improvement
 - Age and condition of infrastructure
 - Availability of funding
- **Adopted Capital Improvement Plan** – In the spring, the City Manager presents a Proposed Capital Improvement Plan to the City Council. The projects are refined and reprioritized during Council Workshops and the formal Plan is adopted.
- **Ongoing Monitoring** – Authorized capital projects are monitored to determine if timelines and milestones are being met and if financial transactions follow the adopted budget. Periodic status reports are provided to the City Council.

Citizen Involvement

Because the decisions and issues faced in a CIP are often substantial and carry long-term implications, involving citizens can help ensure that the projects selected are valued by the community and that citizens understand the need for issuing debt and levying taxes to finance projects. Some of the ways citizens are involved:

- Project feedback/recommendation through the City’s website
- Public Hearings
- Community Forums

What This CIP Contains

This CIP captures infrastructure and facility needs. However, this document does not include staff, vehicles, equipment, technology or transit needs- these needs will be incorporated into the 2012 budget requests.

Additionally, the first year of this CIP (2012) will be the capital budget for 2012 along with additional requests for vehicles, equipment and technology that will be discussed during the 2012 Budget Process.

This CIP has anticipated using the following funding sources:

- User Fees
- Grants
- Borrowing:
 - Revenue Bonds
 - Installment Purchase
 - SRF (State Revolving Loans)
 - American Recovery & Reinvestment Act Funds (ARRA)

On the following pages we have assembled a comprehensive CIP that shows previously approved projects as well as new requests. The result of this intense analysis of new and previously approved projects demonstrates to the City Council and our citizens the investment that is being made to maintain vital infrastructure and "PLAN" for future needs.

It is also vitally important to know what this CIP is not - and that is a perfect prediction of our needs. As acknowledged in current bid costs, the estimates made in a long-term plan are not the same as a project that has been fully designed and engineered. Therefore, it is important that staff continually keep this CIP updated with new estimates as the year for funding approaches. In other words a CIP is not a static document that once approved is placed on a shelf and only looked at during the budget process; it is a constantly changing document that must be flexible to incorporate updated costs and unforeseen needs.

CAPITAL IMPROVEMENT PLAN SUMMARY

Project Expenditures: 2012-2016

There are six major departmental categories of capital projects represented in the 2012-2016 CIP. Total proposed spending for all departments over the next five years is \$129,754,847, which is approximately \$3.5 million less than the total five year capital plan adopted in 2011 (\$133,345,896). The proposed investment in capital projects in 2012 is \$42,510,402, which is approximately \$7.6 million dollars more than adopted capital spending for 2011 (\$34,852,011). Proposed 2012 expenditures by department are detailed below:

- **Community Programs Projects**

Community Programs projects total \$200,000 in 2012 and \$16,200,000 for the five year period, which represents 0.5% and 12.5% of total spending, respectively. The major project for 2012 is Phase IV construction of the Sturgeon City Boardwalk. Scheduled FY11 project spending for this project was delayed by one year. Future capital spending is planned in support of the Sturgeon City Civic and Environmental Education Center.

- **Fire Department Projects**

Investments in Fire Department projects total \$5,272,600 and 4.1% of total capital spending over the next five years. Project spending in 2012 is \$1,401,000 and represents investment in the relocation of the Northwoods Fire Station. Fire Department project spending in 2012 represents 3.3% of total project spending in this budget year.

- **Police Department Projects**

Police Department capital spending over the next five years is dedicated to the construction of a new Public Safety Headquarters, Firearms Training Range Improvements and Radio System Upgrade. The Public Safety Headquarters will house both fire and police personnel. Total investment for 2012-2016 is \$29,329,533, which is 22.6% of total five year spending on all capital projects. Proposed appropriations for 2012 are \$15,041,593, which is primarily for construction costs for the Public Safety Headquarters (\$12,638,892). Police Department project spending in 2012 represents 35.4% of 2012 adopted capital investment.

- **Public Services Projects**

Public Services projects are the largest category of projects in the CIP and represent a wide variety of infrastructure projects. Spending in 2012 is \$15,892,871, 37.4% of the total Capital Plan in 2012. Over the five year period investment is estimated to be 41.2% of total spending or \$53,432,537 for Public Services projects. These investments include streets and sidewalk improvements, handicap accessibility enhancements, stormwater management, water and sewer treatment, and wells and lines improvements. The largest financial investments include Phase II of the Public Service/Fleet Complex construction, the Henderson Lift Station upgrade, Piney Green Road Sewer Infrastructure Improvements, continuation of the Water System Improvements related to the New Water Treatment Plant.

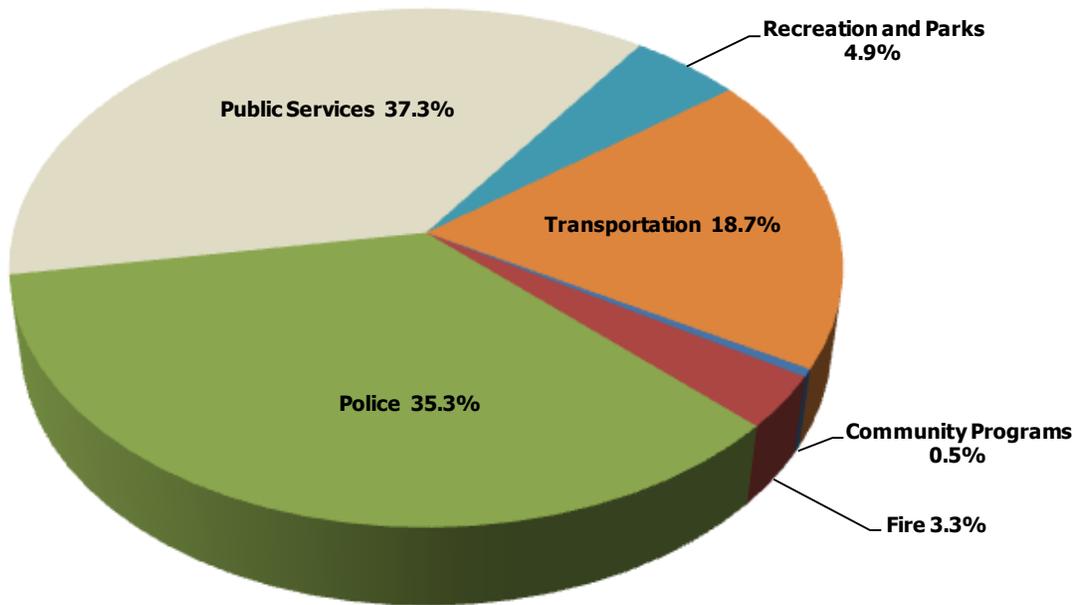
- **Recreation and Parks Projects**

Spending on Recreation and Parks projects in 2012 is \$2,069,238 and totals \$12,636,707 between 2012 and 2016. In accordance with the City's adopted Trails, Greenways and Pedestrian Circulation Plan, work will continue on NC 24 Lejeune Blvd Trail in 2012. Improvements are also planned for Carolina Forest Park, Northeast Creek Park, Jack Amyette Recreation Center, Wooten Park, Richard Ray All-American Park, Jacksonville Commons phase III which will cover improvements for the existing Athletics programs, and replacement of the playground surfaces at the Northwoods and Kerr St recreation centers. Projects in 2012 represent 4.9% of investment and 9.7% overall in the 2012-2016 Capital Plan.

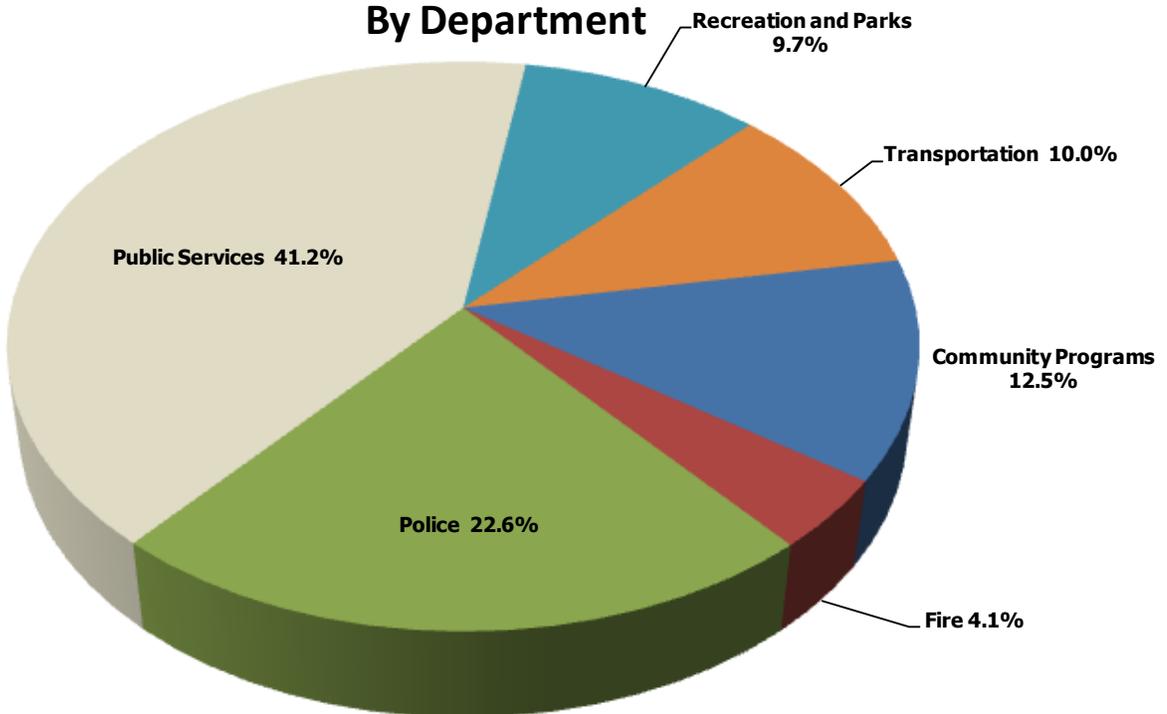
- **Transportation Projects**

This year Transportation has three major projects in 2012. Spending for 2012 is \$7,969,000 (18.7%) and totals \$12,946,770 (10%) between 2012 and 2016. Major sources of funding for these projects are federal and state grants. The FY11 scheduled spending for the Jacksonville Commons Park and Ride was delayed one year, thus the repeat in fiscal year spending.

Budget Year 2012 CIP Expenditure Summary By Department



2012-2016 CIP Expenditure Summary By Department



Operating Impacts: FY2012

The impact of CIP projects and acquisitions on present and future operating budgets can be significant. Some projects can add recurring expenditures and new positions, possibly creating the need to increase revenues to offset the new operating expenditures. The impact of capital projects and acquisitions on the operating budget is too often overlooked due to timing and uncertainty. Some operational impacts that the CIP identifies and provides for include:

- New positions and additional program or operating expenses
- Workload associated with support personnel to manage the various capital projects
- Annual debt service on new debt issuance
- Cash transfers from funds to support projects (pay-as-you-go financing)

Many of the projects contained in this CIP have operational impacts. Listed on each project page is a section entitled, "Budget Impact/Other" where operational implications of the project are detailed. Following this commentary is a "Budget Items" table listing the actual dollar impact of the projected operating expense as shown below and discussed previously.

Budget Impact/Other
<p>IMPACT IF CANCELLED OR DELAYED: Affects the life, safety and property protection of this area of the City. There will be a substantial impact on both the Police and Fire Departments if this project is cancelled or delayed. Both of these emergency services have been confined to a facility for the past several years that has insufficient space to fulfill the missions and operational capabilities of both departments. Facilities Maintenance Services continual support of the interior and exterior of the facility. ITS to support the computer and telephone equipment in the facility. Estimated Costs - Electricity - \$101,461, Water/Sewer - \$6,000, Sanitation - \$3,360 and Stormwater - \$3,744 = Total Cost \$114,565. The Fire/Police Depts over the past several years have been unable to expand the operations of the agencies to keep pace with the growth of the City due to lack of critical physical space. The cost of being unable to expand is difficult to quantify but does have a significant impact on the agency's ability to effectively meet the needs of the community. -Building financed for 20 years at 5.0%</p>

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service		1,489,385	1,787,262	1,787,262	1,787,262	1,787,262	27,106,807	35,745,240
Operating Expense		114,565	118,001	121,542	125,188	128,944		608,240
Total		1,603,950	1,905,263	1,908,804	1,912,450	1,916,206	27,106,807	36,353,480

Review of these sections will help the reader understand the anticipated operational impacts of the project and assist staff in preparing the current fiscal year (2012) operating budget. *A summary table of FY2012-2016 operating impacts entitled, "Projects by Operating Impact Type" is included in the CIP Summaries Section of the CIP.*

- **New Personnel/Facilities Operating Expenses**

The projects requiring new personnel or facilities operating expenses for FY2012 are as follows:

- **Public Safety Headquarters Facility**-Projected operating expenses of \$114,565 are due to expected utility costs for the building. These expenses include electricity, water/sewer, sanitation, and stormwater fees.
- **Firearms Training Range Improvements**-Projected operating expense increases of \$1,223 are due to increased utilities expenses with the addition of a training facility with restrooms and kitchen.
- **Water Supply and Treatment Facility**-Projected operating expenses (\$944,115) and personnel expenses (\$296,436) for the Water Supply and Treatment Facility total \$1,240,551 in FY12. Operating expenses include utilities, equipment, chemicals, maintenance contracts, future electricity expenses for the wells, and supplies expenses for the treatment facility. The Water Supply and Treatment Facility has been in operation since August 2010, but is not running at full capacity as of yet. Initial estimates for operating expenses developed by McKim & Creed, Inc have been modified to better reflect actual operating expenses. Many of the operating and personnel expenses have already been worked into the normal operating budget as of FY11. The operating and personnel expenses represented in the FY12 CIP Plan are for future expenses to be incurred when the facility is up and running at full capacity.

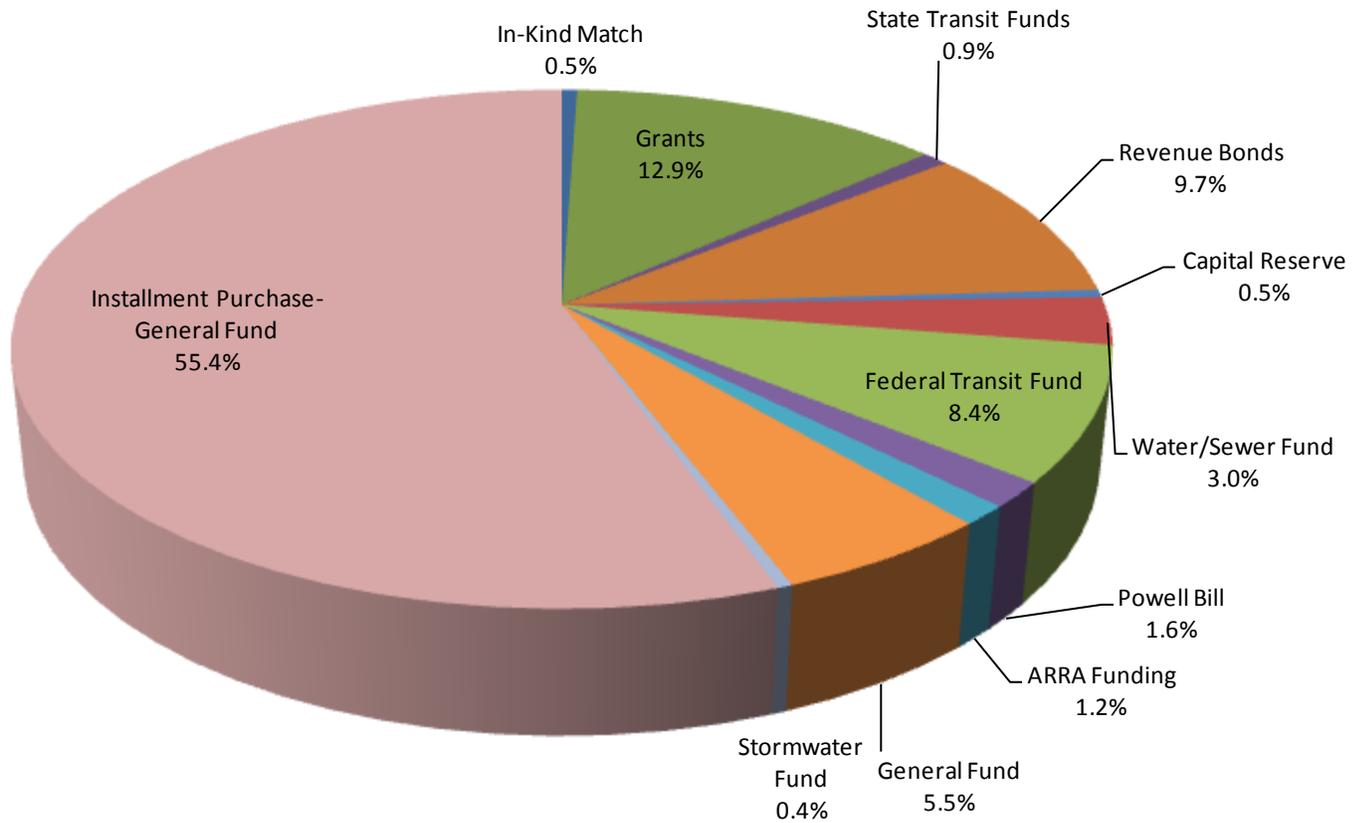
- **Debt Service Requirements**

The most significant operating impact is annual debt service requirements due to necessary borrowing to fund CIP projects. The two most common types of borrowing in this CIP are installment purchase debt and revenue bond debt. This debt service is budgeted as an annual operating expense based on current interest rates and terms of borrowing for project type, adjusted for future uncertainties. A schedule of projected FY2012-2016 CIP debt service obligations can be found in the summary table (Projects by Operating Impact Type). A summary of existing city-wide debt service commitments are located in the annual operating budget.

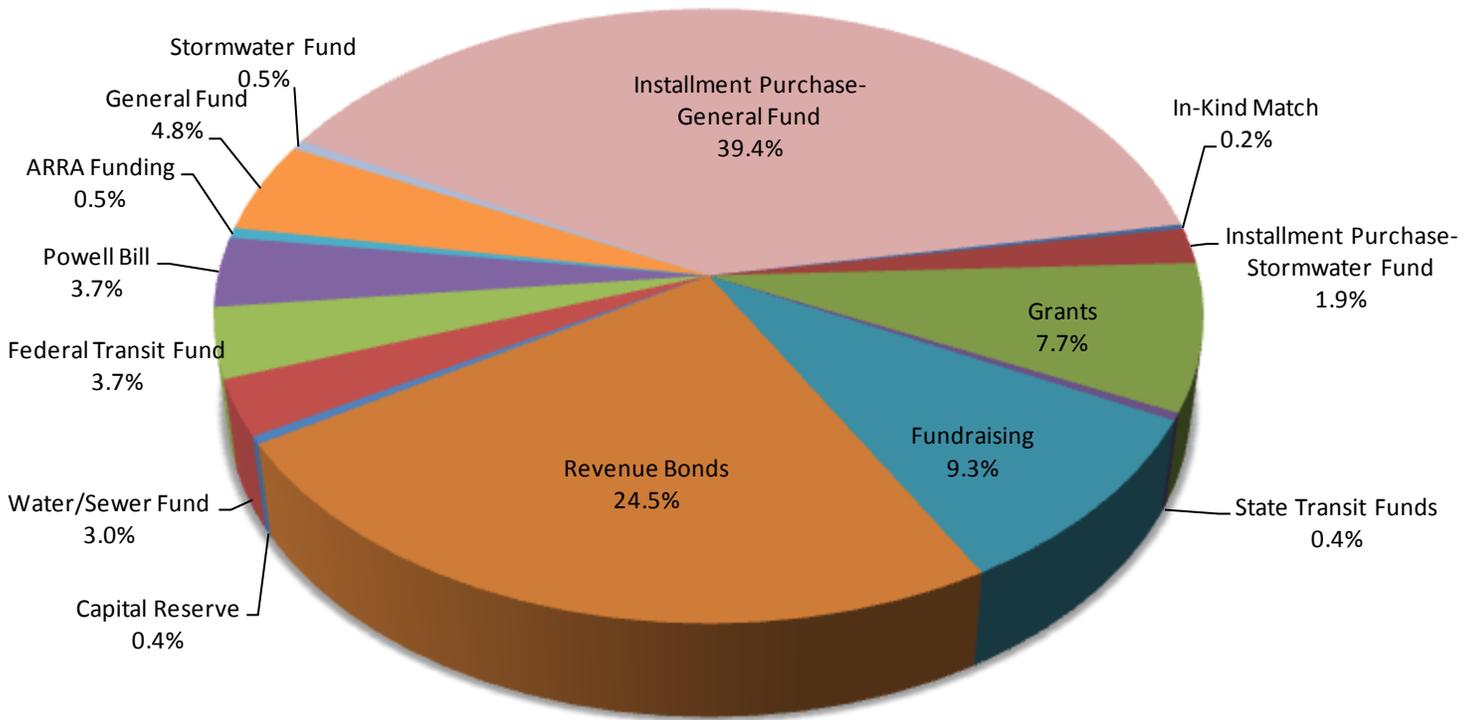
FINANCING THE CAPITAL IMPROVEMENT PLAN

The FY2012-2016 Capital Improvement Plan funding summary is presented below. FY12 project funding is provided in more detail in the project descriptions following this summary

Budget Year 2012 CIP Funding Source Summary



2012-2016 CIP Funding Source Summary



CIP REPORTS

The following pages contain the approved CIP for the 2012 – 2016 planning period and a description of the reports are listed below:

- **Projects by Department** – This report shows a list of all the projects that must be managed by each Department/Division (workload indicator).
- **Department Summary** – This report shows a summary of the total expenditures by year by Department Type.
- **Projects by Funding Source** – This report shows the name of each project by year by Funding Type.
- **Funding Source Summary** – This report shows a summary of the total funding by year by Funding Type.
- **Projects by Budget Item** – This report shows a summary of anticipated operational impacts by type and project.
- **Individual Project Request** – This report shows the name, description, justification, operational impacts, expenditures, funding sources and a picture (if applicable) for each project request.

City of Jacksonville, NC
Capital Improvement Plan
 2012 thru 2016

PROJECTS BY DEPARTMENT

Department	Project#	Priority	2012	2013	2014	2015	2016	Total
Community Programs								
Sturgeon City Boardwalk IV	CP-11 GF1108	1	200,000					200,000
Sturgeon City Civic & Environmental Ed. Center	CP-12-001	1			2,000,000	7,000,000	7,000,000	16,000,000
Community Programs Total			200,000		2,000,000	7,000,000	7,000,000	16,200,000
Fire								
Fire Station #5	FR-08 GF0401	1		240,000		180,000	2,330,000	2,750,000
Relocation of Northwoods Fire Station #2	FR-10 GF1008	1	1,401,000	802,000	170,000			2,373,000
Georgetown Training Facility Restroom/Improvements	FR-12-0001	1			96,500	53,100		149,600
Fire Total			1,401,000	1,042,000	266,500	233,100	2,330,000	5,272,600
Police								
Public Safety Headquarters Facility	PD-08 GF0601	1	12,638,892	12,522,544				25,161,436
Firearms Training Range Improvements	PD-09 GF0904	1	402,701					402,701
Radio System Upgrade	PD-11 PD1101	1	2,000,000	1,765,396				3,765,396
Police Total			15,041,593	14,287,940				29,329,533
Public Services								
Public Service/Fleet Complex - Phase II	EN-09 SF0801	1	1,005,000					1,005,000
New Bridge Streetscape	EN-12-001	4	127,000					127,000
Gateway Median Improvements	EN-12-003	3	50,000					50,000
Freedom Fountain Phase II	EN-13-002	1		500,000				500,000
Inflow & Infiltration (I&I) Rehabilitation Phase I	II-09 SF0304	1	385,000					385,000
Inflow & Infiltration (I&I) Phase II	II-12-001	3		933,000	929,010			1,862,010
NCDOT Partnered Ped Improvements	SK-11 GF1107	2	1,079,711					1,079,711
FY12 Sidewalk Installation	SK-12-000	3	118,000					118,000
Hargett Street Pedestrian Improvements	SK-12-002	3	171,000					171,000
FY13 Sidewalk Installation	SK-13-000	1		135,000				135,000
FY14 Bike Lanes	SK-14-001	3			89,500			89,500
FY15 Sidewalk Improvements	SK-15-000	3				33,000	241,000	274,000
FY16 Pedestrian Improvements	SK-16-000	3					73,000	73,000
Henderson Lift Station Upgrade	SR-08-005	1	1,515,000	1,464,250				2,979,250
Warlick St & Koonce Cir Sewer Replacement (FY11)	SR-11 SF1101	1	467,000					467,000
Southwest Regional Lift Station (Springdale)	SR-11 SF1102	1	865,000					865,000
Parkwood Regional Lift Station and Forcemain	SR-11 SF1104	1	595,710	987,860	6,436,000	6,336,000		14,355,570
Western Trunk Sewer (Lower)	SR-11 SF1105	1	120,000	120,000	1,280,000	1,280,000		2,800,000
WW Collection Sys Imp - Main Outfall F1	SR-11 SF1106	1	331,810					331,810
Piney Green Road Sewer Infrastructure Improvements	SR-11 SF1108	2	1,309,350	1,309,350				2,618,700
SCADA for Wastewater Lift Stations	SR-11-SF1109	2	944,000					944,000
College St Sewer Replacement (FY12)	SR-12-000	1	25,740	280,000				305,740
Memorial Lift Station Replacement	SR-12-003	2	118,310	506,000				624,310
Canterbury Lift Station Replacement	SR-12-004	2	56,430	565,000				621,430

Department	Project#	Priority	2012	2013	2014	2015	2016	Total
Frances, Cando, & Palm Sewer Replacement (FY14)	SR-14-000	1			107,000	981,000		1,088,000
Country Club Villas Pump Station	SR-14-001	2			240,000			240,000
Georgetown Pump Station Rehabilitation	SR-14-004	2			173,000			173,000
FY12 Street Reclamation	ST-12-000	1	779,000					779,000
FY13 Street Reclamation	ST-13-000	1		789,000				789,000
FY14 Street Reclamation	ST-14-000	1			664,000			664,000
FY15 Street Reclamation	ST-15-000	1				918,000		918,000
FY16 Street Reclamation	ST-16-000	1					881,000	881,000
Parkwood Area Stormwater Project	SW-08 SW0601	1	269,000					269,000
Brynn Marr Area Stormwater BMP Project	SW-08 SW0801	1	299,000					299,000
Country Club/Sandy Run Stormwater Project	SW-11-SW1102	1	160,300					160,300
Chaney Creek Bioremediation Phase II	SW-12 GR1001	1	20,000	330,000				350,000
Downtown Central Stormwater Phase I	SW-12 SW1101	1	70,000	637,310				707,310
Brynn Marr Area Storm Drainage Project	SW-12-005	1				562,000	512,136	1,074,136
Zack Circle Stormwater Project	SW-13-001	3		36,000	286,000			322,000
Downtown Central Stormwater Treatment Phase II	SW-13-002	2		200,000	1,800,000	1,000,000		3,000,000
Pine Valley/Country Club Area Stormwater Project	SW-14-001	3			47,000	373,000		420,000
Jean Circle Water and Sewer Rehabilitation	WS-13-002	1		44,550	362,000			406,550
Park Lane/Stratford Water and Sewer Rehabilitation	WS-15-000	1				140,000		140,000
Water Supply and Treatment Facility	WT-04 WF0400	1	2,604,000					2,604,000
Sherwood Forest Water Supply Imp-Fire Protection	WT-08 WF9802	1	152,000					152,000
Water System Improvements Phase II	WT-10 WF1001	1	1,125,030					1,125,030
Piney Green and 17 Water Service Area	WT-10 WF1002	1	281,300	2,298,200				2,579,500
Zack Circle & Hargett St Water Line Replacement	WT-12-000	1	849,180	353,500				1,202,680
FY14 Water Line Replacement	WT-14-000	1			31,000	231,000		262,000
FY16 Water Line Replacement	WT-16-001	1					45,000	45,000
Public Services Total			15,892,871	11,489,020	12,444,510	11,854,000	1,752,136	53,432,537

Recreation and Parks

NC 24 Lejeune Blvd Trail	RC-08 GF0201	1	638,900	91,700				730,600
Carolina Forest Park	RC-08 GF0802	1	659,965	419,875				1,079,840
Northeast Creek Park Phase I	RC-11 GF1109	2	230,623					230,623
Jack Amyette Recreation Center	RC-11 GF1115	2	300,000					300,000
Phillips Park	RC-12 GF1004	1		1,590,000				1,590,000
Riverwalk Crossing Park	RC-12 GF1006	1		140,000				140,000
Jacksonville Commons Phase III	RC-12-001	2	75,000	65,000				140,000
Northwoods Recreation Center	RC-12-002	2		44,880	363,870			408,750
Playground Surfaces - FY 2012	RC-12-003	2	65,000					65,000
Wooten Park	RC-12-004	3	63,500	48,000				111,500
Jacksonville Commons Skateboard Park Phase I	RC-12-005	2			234,000			234,000
Handicap Accessible Playground	RC-13-001	3		213,000				213,000
Kerr Street	RC-13-002	3		20,400	151,600			172,000
Jacksonville Commons Skateboard Park Phase II	RC-13-003	2				193,050		193,050
Playground Surfaces - FY 2013	RC-13-004	2		165,000				165,000
Richard Ray All-American Park Phase II	RC-13-005	1	36,250					36,250
Williamsburg Plantation Park	RC-14-002	4			100,000	50,000	4,080,000	4,230,000
Trail Amenities	RC-14-003	4			53,844	42,000		95,844
Trail Head Park	RC-14-004	4			300,000	1,180,000	200,000	1,680,000
Northeast Creek Park Phase II	RC-14-007	2			430,650			430,650
Playground Surfaces - FY 2014	RC-15-001	2			180,000			180,000
Richard Ray All-American Park Phase III	RC-15-002	1				210,600		210,600
Recreation and Parks Total			2,069,238	2,797,855	1,813,964	1,482,600	4,473,050	12,636,707

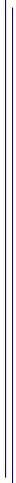
Transportation

Department	Project#	Priority	2012	2013	2014	2015	2016	Total
Jacksonville Commons Park and Ride	TR-11 TR1102	2	453,000					453,000
Intelligent Transportation System (ITS)	TR-12 GR1002	2	7,200,000		277,770			7,477,770
Multimodal Transportation Center	TR-12 TR	2	316,000	200,000	4,000,000	500,000		5,016,000
Transportation Total			7,969,000	200,000	4,277,770	500,000		12,946,770
GRAND TOTAL			42,573,702	29,816,815	20,802,744	21,069,700	15,555,186	129,818,147

City of Jacksonville, NC
Capital Improvement Plan
2012 thru 2016

DEPARTMENT SUMMARY

Department	2012	2013	2014	2015	2016	Total
Community Programs	200,000		2,000,000	7,000,000	7,000,000	16,200,000
Fire	1,401,000	1,042,000	266,500	233,100	2,330,000	5,272,600
Police	15,041,593	14,287,940				29,329,533
Public Services	15,892,871	11,489,020	12,444,510	11,854,000	1,752,136	53,432,537
Recreation and Parks	2,069,238	2,797,855	1,813,964	1,482,600	4,473,050	12,636,707
Transportation	7,969,000	200,000	4,277,770	500,000		12,946,770
TOTAL	42,573,702	29,816,815	20,802,744	21,069,700	15,555,186	129,818,147



City of Jacksonville, NC
Capital Improvement Plan
 2012 thru 2016

PROJECTS BY FUNDING SOURCE

Source	Project#	Priority	2012	2013	2014	2015	2016	Total
American Recovery & Reinvestment								
Public Service/Fleet Complex - Phase II	EN-09 SF0801	1	694,812					694,812
American Recovery & Reinvestment Act Funding Total			694,812					694,812
Capital Reserve Developer Contributions								
Northeast Creek Park Phase I	RC-11 GF1109	2	200,000					200,000
Capital Reserve Developer Contributions Total			200,000					200,000
Capital Reserve Fund								
New Bridge Streetscape	EN-12-001	4	127,000					127,000
Fire Station #5	FR-08 GF0401	1		200,000				200,000
Jacksonville Commons Phase III	RC-12-001	2	70,000	65,000				135,000
Playground Surfaces - FY 2012	RC-12-003	2	65,000					65,000
Capital Reserve Fund Total			262,000	265,000				527,000
Federal Transit Funds								
Public Service/Fleet Complex - Phase II	EN-09 SF0801	1	728,600					728,600
Multimodal Transportation Center	TR-12 TR	2	4,012,800					4,012,800
Federal Transit Funds Total			4,741,400					4,741,400
Fundraising								
Sturgeon City Civic & Environmental Ed. Center	CP-12-001	1			2,000,000	5,000,000	5,000,000	12,000,000
Fundraising Total					2,000,000	5,000,000	5,000,000	12,000,000
General Fund								
Fire Station #5	FR-08 GF0401	1		190,933				190,933
Relocation of Northwoods Fire Station #2	FR-10 GF1008	1	138,250		70,000			208,250
Georgetown Training Facility Restroom/Improvements	FR-12-0001	1			96,500	53,100		149,600
Public Safety Headquarters Facility	PD-08 GF0601	1	1,770,910					1,770,910
Northeast Creek Park Phase I	RC-11 GF1109	2	13,000					13,000
Jack Amyette Recreation Center	RC-11 GF1115	2	300,000					300,000
Riverwalk Crossing Park	RC-12 GF1006	1		140,000				140,000
Northwoods Recreation Center	RC-12-002	2		66,570				66,570
Wooten Park	RC-12-004	3	63,500	48,000				111,500
Jacksonville Commons Skateboard Park Phase I	RC-12-005	2			234,000			234,000
Handicap Accessible Playground	RC-13-001	3		213,000				213,000

Source	Project#	Priority	2012	2013	2014	2015	2016	Total
Kerr Street	RC-13-002	3		20,400	151,600			172,000
Jacksonville Commons Skateboard Park Phase II	RC-13-003	2					193,050	193,050
Playground Surfaces - FY 2013	RC-13-004	2		165,000				165,000
Richard Ray All-American Park Phase II	RC-13-005	1	36,250					36,250
Williamsburg Plantation Park	RC-14-002	4			100,000	50,000		150,000
Trail Amenities	RC-14-003	4			10,769	8,400		19,169
Trail Head Park	RC-14-004	4			300,000	70,000		370,000
Northeast Creek Park Phase II	RC-14-007	2			430,650			430,650
Playground Surfaces - FY 2014	RC-15-001	2			180,000			180,000
Richard Ray All-American Park Phase III	RC-15-002	1				210,600		210,600
Hargett Street Pedestrian Improvements	SK-12-002	3	171,000					171,000
Multimodal Transportation Center	TR-12 TR	2	501,600					501,600
General Fund Total			2,994,510	843,903	1,573,519	392,100	193,050	5,997,082

Grants								
Sturgeon City Boardwalk IV	CP-11 GF1108	1	150,000					150,000
NC 24 Lejeune Blvd Trail	RC-08 GF0201	1	520,000	65,000				585,000
Carolina Forest Park	RC-08 GF0802	1	500,000					500,000
Phillips Park	RC-12 GF1004	1		500,000				500,000
Trail Amenities	RC-14-003	4			43,075	33,600		76,675
Chaney Creek Bioremediation Phase II	SW-12 GR1001	1	300,000					300,000
Downtown Central Stormwater Treatment Phase II	SW-13-002	2			2,000,000			2,000,000
Intelligent Transportation System (ITS)	TR-12 GR1002	2	5,000,000					5,000,000
Grants Total			6,470,000	565,000	2,043,075	33,600		9,111,675

In-Kind Match								
Intelligent Transportation System (ITS)	TR-12 GR1002	2	300,000					300,000
In-Kind Match Total			300,000					300,000

Installment Purchase-General Fund								
Sturgeon City Civic & Environmental Ed. Center	CP-12-001	1				4,000,000		4,000,000
Freedom Fountain Phase II	EN-13-002	1		500,000				500,000
Fire Station #5	FR-08 GF0401	1					2,909,067	2,909,067
Relocation of Northwoods Fire Station #2	FR-10 GF1008	1	2,598,000					2,598,000
Public Safety Headquarters Facility	PD-08 GF0601	1	22,661,983					22,661,983
Radio System Upgrade	PD-11 PD1101	1	3,765,396					3,765,396
Carolina Forest Park	RC-08 GF0802	1	450,000					450,000
Phillips Park	RC-12 GF1004	1		1,090,000				1,090,000
Northwoods Recreation Center	RC-12-002	2			342,180			342,180
Williamsburg Plantation Park	RC-14-002	4					8,805,000	8,805,000
Trail Head Park	RC-14-004	4				1,290,000		1,290,000
Intelligent Transportation System (ITS)	TR-12 GR1002	2	1,900,000		277,770			2,177,770
Installment Purchase-General Fund Total			31,375,379	1,590,000	619,950	5,290,000	11,714,067	50,589,396

Installment Purchase-Stormwater								
Brynn Marr Area Storm Drainage Project	SW-12-005	1				994,136		994,136
Zack Circle Stormwater Project	SW-13-001	3			267,000			267,000
Downtown Central Stormwater Treatment Phase II	SW-13-002	2			800,000			800,000

Source	Project#	Priority	2012	2013	2014	2015	2016	Total
Pine Valley/Country Club Area Stormwater Project	SW-14-001	3				348,000		348,000
Installment Purchase-Stormwater Total					1,067,000	1,342,136		2,409,136
NCDOT Grant								
Gateway Median Improvements	EN-12-003	3	50,000					50,000
NCDOT Partnered Ped Improvements	SK-11 GF1107	2	774,711					774,711
NCDOT Grant Total			824,711					824,711
Powell Bill								
FY12 Sidewalk Installation	SK-12-000	3	118,000					118,000
FY13 Sidewalk Installation	SK-13-000	1		135,000				135,000
FY14 Bike Lanes	SK-14-001	3			89,500			89,500
FY15 Sidewalk Improvements	SK-15-000	3				33,000	241,000	274,000
FY16 Pedestrian Improvements	SK-16-000	3					73,000	73,000
FY12 Street Reclamation	ST-12-000	1	779,000					779,000
FY13 Street Reclamation	ST-13-000	1		789,000				789,000
FY14 Street Reclamation	ST-14-000	1			664,000			664,000
FY15 Street Reclamation	ST-15-000	1				918,000		918,000
FY16 Street Reclamation	ST-16-000	1					881,000	881,000
Powell Bill Total			897,000	924,000	753,500	951,000	1,195,000	4,720,500
Revenue Bonds								
Inflow & Infiltration (I&I) Phase II	II-12-001	3		1,776,000				1,776,000
Henderson Lift Station Upgrade	SR-08-005	1		3,180,000				3,180,000
Warlick St & Koonce Cir Sewer Replacement (FY11)	SR-11 SF1101	1	467,000					467,000
Southwest Regional Lift Station (Springdale)	SR-11 SF1102	1	915,000					915,000
Parkwood Regional Lift Station and Forcemain	SR-11 SF1104	1		13,596,000				13,596,000
Western Trunk Sewer (Lower)	SR-11 SF1105	1			2,400,000			2,400,000
WW Collection Sys Imp - Main Outfall F1	SR-11 SF1106	1	313,000					313,000
Piney Green Road Sewer Infrastructure Improvements	SR-11 SF1108	2	2,618,700					2,618,700
College St Sewer Replacement (FY12)	SR-12-000	1		280,000				280,000
Memorial Lift Station Replacement	SR-12-003	2		506,000				506,000
Canterbury Lift Station Replacement	SR-12-004	2		565,000				565,000
Frances, Cando, & Palm Sewer Replacement (FY14)	SR-14-000	1				929,000		929,000
Jean Circle Water and Sewer Rehabilitation	WS-13-002	1		342,000				342,000
Piney Green and 17 Water Service Area	WT-10 WF1002	1		2,150,000				2,150,000
Zack Circle & Hargett St Water Line Replacement	WT-12-000	1	1,202,680					1,202,680
FY14 Water Line Replacement	WT-14-000	1				217,000		217,000
Revenue Bonds Total			5,516,380	22,395,000	2,400,000	1,146,000		31,457,380
Sewer Fund								
Inflow & Infiltration (I&I) Phase II	II-12-001	3		45,000	41,010			86,010
Henderson Lift Station Upgrade	SR-08-005	1	49,250					49,250
Southwest Regional Lift Station (Springdale)	SR-11 SF1102	1	150,000					150,000
Parkwood Regional Lift Station and Forcemain	SR-11 SF1104	1		347,570	412,000			759,570
Western Trunk Sewer (Lower)	SR-11 SF1105	1	120,000	120,000	160,000			400,000
WW Collection Sys Imp - Main Outfall F1	SR-11 SF1106	1	18,810					18,810
College St Sewer Replacement (FY12)	SR-12-000	1	25,740					25,740
Memorial Lift Station Replacement	SR-12-003	2	118,310					118,310

Source	Project#	Priority	2012	2013	2014	2015	2016	Total
Canterbury Lift Station Replacement	SR-12-004	2	56,430					56,430
Frances, Cando, & Palm Sewer Replacement (FY14)	SR-14-000	1			107,000	52,000		159,000
Country Club Villas Pump Station	SR-14-001	2			240,000			240,000
Georgetown Pump Station Rehabilitation	SR-14-004	2			173,000			173,000
Sewer Fund Total			538,540	512,570	1,133,010	52,000		2,236,120
State Transit Funds								
Multimodal Transportation Center	TR-12 TR	2	501,600					501,600
State Transit Funds Total			501,600					501,600
Stormwater Fund								
Parkwood Area Stormwater Project	SW-08 SW0601	1	218,770					218,770
Brynn Marr Area Storm Drainage Project	SW-12-005	1				80,000		80,000
Zack Circle Stormwater Project	SW-13-001	3		36,000	19,000			55,000
Downtown Central Stormwater Treatment Phase II	SW-13-002	2		200,000				200,000
Pine Valley/Country Club Area Stormwater Project	SW-14-001	3			47,000	25,000		72,000
Stormwater Fund Total			218,770	236,000	66,000	105,000		625,770
Water and Sewer Fund								
SCADA for Wastewater Lift Stations	SR-11-SF1109	2	944,000					944,000
Jean Circle Water and Sewer Rehabilitation	WS-13-002	1		44,550	20,000			64,550
Park Lane/Stratford Water and Sewer Rehabilitation	WS-15-000	1				140,000		140,000
Water and Sewer Fund Total			944,000	44,550	20,000	140,000		1,148,550
Water Fund								
Water System Improvements Phase II	WT-10 WF1001	1	200,000					200,000
Piney Green and 17 Water Service Area	WT-10 WF1002	1		139,500				139,500
FY14 Water Line Replacement	WT-14-000	1			31,000	14,000		45,000
FY16 Water Line Replacement	WT-16-001	1					45,000	45,000
Water Fund Total			200,000	139,500	31,000	14,000	45,000	429,500
GRAND TOTAL			56,679,102	27,515,523	11,707,054	14,465,836	18,147,117	128,514,632

City of Jacksonville, NC
Capital Improvement Plan
 2012 thru 2016

FUNDING SOURCE SUMMARY

Source	2012	2013	2014	2015	2016	Total
American Recovery & Reinvestment Act Funding	694,812					694,812
Capital Reserve Developer Contributions	200,000					200,000
Capital Reserve Fund	262,000	265,000				527,000
Federal Transit Funds	4,741,400					4,741,400
Fundraising			2,000,000	5,000,000	5,000,000	12,000,000
General Fund	2,994,510	843,903	1,573,519	392,100	193,050	5,997,082
Grants	6,470,000	565,000	2,043,075	33,600		9,111,675
In-Kind Match	300,000					300,000
Installment Purchase-General Fund	31,375,379	1,590,000	619,950	5,290,000	11,714,067	50,589,396
Installment Purchase-Stormwater			1,067,000	1,342,136		2,409,136
NCDOT Grant	824,711					824,711
Powell Bill	897,000	924,000	753,500	951,000	1,195,000	4,720,500
Revenue Bonds	5,516,380	22,395,000	2,400,000	1,146,000		31,457,380
Sewer Fund	538,540	512,570	1,133,010	52,000		2,236,120
State Transit Funds	501,600					501,600
Stormwater Fund	218,770	236,000	66,000	105,000		625,770
Water and Sewer Fund	944,000	44,550	20,000	140,000		1,148,550
Water Fund	200,000	139,500	31,000	14,000	45,000	429,500
GRAND TOTAL	56,679,102	27,515,523	11,707,054	14,465,836	18,147,117	128,514,632

City of Jacksonville, NC
Capital Improvement Plan
 2012 thru 2016

PROJECTS BY BUDGET ITEM

Budget Item	Project#	Priority	2012	2013	2014	2015	2016	Total
Capital Outlay								
NC 24 Lejeune Blvd Trail	RC-08 GF0201	1	10,000					10,000
Capital Outlay Total			10,000					10,000
Debt Service								
Sturgeon City Civic & Environmental Ed. Center	CP-12-001	1				262,887	315,464	578,351
Freedom Fountain Phase II	EN-13-002	1		38,447	46,137	46,137	46,137	176,858
Fire Station #5	FR-08 GF0401	1					278,925	278,925
Relocation of Northwoods Fire Station #2	FR-10 GF1008	1	170,745	204,894	204,894	204,894	204,894	990,321
Public Safety Headquarters Facility	PD-08 GF0601	1	1,489,385	1,787,262	1,787,262	1,787,262	1,787,262	8,638,433
Radio System Upgrade	PD-11 PD1101	1	701,735	842,083	842,083	842,083	842,083	4,070,067
Carolina Forest Park	RC-08 GF0802	1	45,409	54,490	54,490	54,490	54,491	263,370
Phillips Park	RC-12 GF1004	1		71,637	85,964	85,964	85,964	329,529
Williamsburg Plantation Park	RC-14-002	4					578,680	578,680
Trail Head Park	RC-14-004	4				84,781	101,737	186,518
Intelligent Transportation System (ITS)	TR-12 GR1002	2	191,727	230,072	230,072	230,072	230,072	1,112,015
Water Supply and Treatment Facility	WT-04 WF0400	1	2,713,679	2,671,684	2,629,689	2,587,694	5,049,403	15,652,149
Debt Service Total			5,312,680	5,900,569	5,880,591	6,186,264	9,575,112	32,855,216
Debt Service - ARRA								
Water System Improvements Phase II	WT-10 WF1001	1	75,000	75,000	75,000	75,000	75,000	375,000
Debt Service - ARRA Total			75,000	75,000	75,000	75,000	75,000	375,000
Debt Service - General Fund								
Northwoods Recreation Center	RC-12-002	2			22,483	26,980	26,980	76,443
Debt Service - General Fund Total					22,483	26,980	26,980	76,443
Debt Service - Water and Sewer Fund								
Zack Circle & Hargett St Water Line Replacement	WT-12-000	1	47,923	95,846	95,846	95,846	95,846	431,307
Debt Service - Water and Sewer Fund Total			47,923	95,846	95,846	95,846	95,846	431,307

Budget Item	Project#	Priority	2012	2013	2014	2015	2016	Total
Debt Service -Stormwater Fund								
Parkwood Area Stormwater Project	SW-08 SW0601	1	486,608	486,608	486,608	486,608	486,608	2,433,040
Brynn Marr Area Stormwater BMP Project	SW-08 SW0801	1	18,650	18,650	18,650	18,650	18,650	93,250
Country Club/Sandy Run Stormwater Project	SW-11-SW1102	1	3,888	11,665	11,665	11,665	11,665	50,548
Downtown Central Stormwater Phase I	SW-12 SW1101	1	42,546	42,546	42,546	42,546	42,546	212,730
Brynn Marr Area Storm Drainage Project	SW-12-005	1				65,336	78,404	143,740
Zack Circle Stormwater Project	SW-13-001	3			17,548	21,057	21,057	59,662
Downtown Central Stormwater Treatment Phase II	SW-13-002	2			52,577	63,093	63,093	178,763
Pine Valley/Country Club Area Stormwater Project	SW-14-001	3				22,871	27,445	50,316
Debt Service -Stormwater Fund Total			551,692	559,469	629,594	731,826	749,468	3,222,049

Debt Service-Revenue Bonds								
Public Service/Fleet Complex - Phase II	EN-09 SF0801	1	28,820	28,820	28,820	57,640	28,820	172,920
Inflow & Infiltration (I&I) Rehabilitation Phase I	II-09 SF0304	1	30,594	30,594	30,594	30,594	30,594	152,970
Inflow & Infiltration (I&I) Phase II	II-12-001	3		70,749	141,498	141,498	141,498	495,243
Henderson Lift Station Upgrade	SR-08-005	1		36,450	72,900	72,900	72,900	255,150
Warlick St & Koonce Cir Sewer Replacement (FY11)	SR-11 SF1101	1	18,604	37,207	37,207	37,207	37,207	167,432
Southwest Regional Lift Station (Springdale)	SR-11 SF1102	1	61,388	73,666	73,666	73,666	73,666	356,052
Parkwood Regional Lift Station and Forcemain	SR-11 SF1104	1		541,613	1,083,227	1,083,227	1,083,227	3,791,294
Western Trunk Sewer (Lower)	SR-11 SF1105	1			95,607	191,214	191,214	478,035
WW Collection Sys Imp - Main Outfall F1	SR-11 SF1106	1	12,469	24,937	24,937	24,937	24,937	112,217
Piney Green Road Sewer Infrastructure Improvements	SR-11 SF1108	2	172,106	206,527	206,527	206,527	206,527	998,214
College St Sewer Replacement (FY12)	SR-12-000	1		11,154	22,308	22,308	22,308	78,078
Memorial Lift Station Replacement	SR-12-003	2		20,157	40,314	40,314	40,314	141,099
Canterbury Lift Station Replacement	SR-12-004	2		22,507	45,015	45,015	45,015	157,552
Frances, Cando, & Palm Sewer Replacement (FY14)	SR-14-000	1				37,008	74,016	111,024
Jean Circle Water and Sewer Rehabilitation	WS-13-002	1		13,624	27,248	27,248	27,248	95,368
Water Supply and Treatment Facility	WT-04 WF0400	1	408,212	408,212	408,212	408,212	408,212	2,041,060
Water System Improvements Phase II	WT-10 WF1001	1	149,932	164,643	149,932	149,932	149,932	764,371
Piney Green and 17 Water Service Area	WT-10 WF1002	1		85,648	171,268	171,296	171,296	599,508
FY14 Water Line Replacement	WT-14-000	1				8,644	17,289	25,933
Debt Service-Revenue Bonds Total			882,125	1,776,508	2,659,280	2,829,387	2,846,220	10,993,520

Operating Expense								
Fire Station #5	FR-08 GF0401	1				124,345	127,325	251,670
Public Safety Headquarters Facility	PD-08 GF0601	1	114,565	118,001	121,542	125,188	128,944	608,240
Firearms Training Range Improvements	PD-09 GF0904	1	1,223	1,260	1,300	1,337		5,120
Phillips Park	RC-12 GF1004	1		6,000	6,000	6,000	6,000	24,000
Trail Amenities	RC-14-003	4			600	618		1,218
Trail Head Park	RC-14-004	4				3,198	3,198	6,396
Multimodal Transportation Center	TR-12 TR	2					10,000	10,000
Water Supply and Treatment Facility	WT-04 WF0400	1	944,115	972,439	1,001,612	1,031,660	1,134,826	5,084,652
Operating Expense Total			1,059,903	1,097,700	1,131,054	1,292,346	1,410,293	5,991,296

Personnel

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # CP-11 GF1108
Project Name Sturgeon City Boardwalk IV



Type Improvement **Department** Community Programs
Useful Life 20 **Contact** Glenn Hargett
Category Parks **Priority** C Committed To
Part of Master Plan Y **Growth Related** Y
Externally Mandated N **Service Related** N
Status Active

Description

The 2012 funding provides for the construction of a permanent boathouse and any other construction needs not accomplished with the 2009 funding. After consultation with Recreation project put on hold until FY12.

Funding for this project is dependent on grants from the Division of Coastal Management.

Justification

The final phase of this boardwalk will make the park more accessible to the public and will increase the variety of recreational and educational activities that can take place in the park. Supports Council Goals 1 and 4, and Mission & Vision Statement. Part of Downtown Master Plan.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design		25,000						25,000
Construction		170,000						170,000
Contingency		5,000						5,000
Total		200,000						200,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Capital Reserve Fund	50,000							50,000
Grants		150,000						150,000
Total	50,000	150,000						200,000

Budget Impact/Other

State grants will be applied for with 25% City match - \$150,000 grant funding being requested for 2012. Grant required for continuation of project.
 Recreation will continue to maintain park.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # CP-12-001
Project Name Sturgeon City Civic & Environmental Ed. Center



Type New Construction
Useful Life 30
Category Buildings
Part of Master Plan Y
Externally Mandated N

Department Community Programs
Contact Glenn Hargett
Priority C Committed To
Growth Related Y
Service Related N
Status Active

Description

To fund, as committed, \$4 million to build the project at the former Wilson Bay Wastewater Treatment Plant. The Sturgeon City Civic and Environmental Education Center will celebrate the successes of the Wilson Bay Initiative, advance stewardship of our natural resources and provide a place of pride for our community. The Center will feature interactive exhibits, active research projects and programming to advance civic and environmental education. With a regional focus and local initiative, the Sturgeon City Civic and Environmental Education Center will be a community model of civic action.

Justification

Supports Council Goals 1,2,4, and Mission & Vision Statement. Part of Downtown Master Plan. Improves the quality of life for citizens and those visiting Jacksonville.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design				2,000,000				2,000,000
Construction					7,000,000	7,000,000		14,000,000
Total				2,000,000	7,000,000	7,000,000		16,000,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Fundraising				2,000,000	5,000,000	5,000,000		12,000,000
Installment Purchase-General					4,000,000			4,000,000
Total				2,000,000	9,000,000	5,000,000		16,000,000

Budget Impact/Other

Sturgeon City Nonprofit will raise \$12 million infunds. The City will borrow the remaining \$4 million. \$11 million will be raised by the time the additional \$4 million is requested. It is anticipated \$1 million will be raised by FY11, which would progress the project to a stage where a final design would be needed to complete the fundraising. Facilities Maintenance Services may need to provide building maintenance for the education center.

Financed for 20 years at 5%

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service					262,887	315,464	5,730,929	6,309,280
Total					262,887	315,464	5,730,929	6,309,280

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # FR-08 GF0401
Project Name Fire Station #5



Type New Construction
Useful Life 30
Category Buildings
Part of Master Plan Y
Externally Mandated Y

Department Fire
Contact Rick McIntyre
Priority C Committed To
Growth Related Y
Service Related Y
Status Active

Description

This project adds a needed fire station to provide fire protection for a growing and/or underserved area of the City that is considered outside prudent response area. Estimated project costs include facility construction, purchase of a pumper truck, and furnishings. This also includes estimated costs for land acquisition, with alternate land sites being considered for this project. The cost of the pumper for this station, \$700,000, is higher (equipment/furnishings) because this unit will actually be transferred to the Downtown Station #1. When the new public safety facility is completed, the current pumper at Station 1 is due for replacement in FY2011 and a standard pumper will be purchased, which will be later moved to Fire Station #5.

Justification

Emergency responses to growing and/or underserved areas of the City are not effectively served by existing fire stations. Without a fire station to serve these areas, response times will continue to increase, reducing the efficiency of the emergency service provided to that area. We have a temporary fire station on Westmont Road in the Williamsburg subdivision that has improved response times in the Gum Branch West area but with limited service.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Planning/Preliminary Design			40,000					40,000
Engineering/Design					150,000			150,000
Land/Right of Way		200,000						200,000
Construction						1,500,000	300,000	1,800,000
Equipment/Furnishings						700,000	150,000	850,000
Contingency						90,000	90,000	180,000
Construction Administration						40,000	10,000	50,000
Demolition					30,000			30,000
Total			240,000		180,000	2,330,000	550,000	3,300,000
Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Capital Reserve Fund			200,000					200,000
General Fund			190,933					190,933
Installment Purchase-General						2,909,067		2,909,067
Total			390,933			2,909,067		3,300,000

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: Affects the life, safety and property protection of this area of the City.

- Public Services/Facilities Maintenance Services/ITS
- Fire Station Financed for 20 years at 5% (\$2,259,067)
- Fire Apparatus Financed for 5 years at 4% (\$700,000)

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service						278,925	4,054,040	4,332,965
Operating Expense					124,345	127,325	213,952	465,622
Personnel				759,772	782,565	806,042	1,685,353	4,033,732
Total				759,772	906,910	1,212,292	5,953,345	8,832,319

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # FR-10 GF1008
Project Name Relocation of Northwoods Fire Station #2



Type Replacement
Useful Life 30
Category Buildings
Part of Master Plan N
Externally Mandated N

Department Fire
Contact Rick McIntyre
Priority C Committed To
Growth Related N
Service Related Y
Status Active

Description

This project consists of adding a new drive-thru fire apparatus bay to Fire Station #2. It also includes the conversion of the existing bays to living quarters, adding male and female shower and locker rooms, and installation of a new HVAC system will be needed. Electrical, site work, and other upgrades are included in this project. Existing asbestos will have to be abated as part of this project and a temporary station may be needed until completion of project.

Engineering evaluation was conducted in 2010, with construction in 2012 and 2013. The evaluation report provided recommendations on modification of the existing station or new construction in a different location.

Per City Council discussion on January 4, 2011, staff are looking for possibilities of land acquisition in the area of Gum Branch Rd. just West of Jacksonville High School to relocate Fire Station 2 to that area. This may result in a need to acquire and demolish private property to provide egress to Northwoods Drive or David Place to maintain response times to the Northwoods area.

Justification

The existing apparatus bay of this fire station was not designed for the size of modern fire apparatus; a new drive-thru apparatus bay will be added. Electrical, site work, and other upgrades are included in this project. The HVAC system is inadequate and causes mold problems, which in turn have increased employee health issues. The sleeping quarters are too small and have affected privacy issues.

The abatement of asbestos is necessary to ensure the safety and health of the firefighters and public at the station. Exposure to asbestos can cause sickness and reduce the efficiency of the department and the City.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Planning/Preliminary Design	40,000							40,000
Engineering/Design	75,000	75,000						150,000
Land/Right of Way	370,000							370,000
Construction		1,200,000	600,000					1,800,000
Equipment/Furnishings			100,000	100,000				200,000
Contingency		90,000	90,000					180,000
Construction Administration		36,000	12,000					48,000
Demolition				70,000				70,000
Total	485,000	1,401,000	802,000	170,000				2,858,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Capital Reserve Fund	51,750							51,750
General Fund		138,250		70,000				208,250
Installment Purchase-General		2,598,000						2,598,000
Total	51,750	2,736,250		70,000				2,858,000

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: Affects the life safety and property protection of this area of the City. Provide ITS Access Control to building. Estimate \$600/year plus inflation in increased utility costs.

-Rental/utilities cost for temporary facility included for FY11 & FY12 under "Temporary Leasing Facility." This will not be a necessary expense if the station is relocated to another site.

-Renovation financed for 20 years at 5%

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service		170,745	204,894	204,894	204,894	204,894	3,107,559	4,097,880
Total		170,745	204,894	204,894	204,894	204,894	3,107,559	4,097,880

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # FR-12-0001
Project Name Georgetown Training Facility Restroom/Improvements



Type Improvement **Department** Fire
Useful Life 15 **Contact** Barbara Russo
Category Combined Infrastructure **Priority** C Committed To
Part of Master Plan Y **Growth Related** Y
Externally Mandated N **Service Related** Y
 Status Active

Description

The Georgetown Training Facility is a practical training facility for emergency service agencies. This is a leased facility; there is a multi-year improvement plan to upgrade this facility. This project will add restroom facilities and provide improvements to address specific hazard training such as flammable gas fires and confined space rescue. Accomplishments to date include water system improvements, paving of primary roads, completion of burn building, and fencing improvement.

Justification

Additional training exercises specifically will be added as funds are available. This facility is utilized by City and County agencies for Public Safety Training. There are no sanitation facilities on site for students. Additional training areas are needed to address specific hazards, such as flammable gas fires and confined space rescue. These training simulation areas will allow the department personnel to be able to train while on duty and still be ready for operational response in the city.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design				7,000	4,100			11,100
Construction				85,500	45,000			130,500
Contingency				4,000	4,000			8,000
Total				96,500	53,100			149,600

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
General Fund				96,500	53,100			149,600
Total				96,500	53,100			149,600

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: Cannot use facility during wet weather. The department will not be able to properly train personnel which could cause a loss in operational efficiency. Proper training of fire personnel supports the department's accreditation status.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # PD-08 GF0601
Project Name Public Safety Headquarters Facility



Type New Construction
Useful Life 30
Category Buildings
Part of Master Plan Y
Externally Mandated Y

Department Police
Contact Rick McIntyre/Mike Yaniero
Priority C Committed To
Growth Related Y
Service Related Y
Status Active

Description

This project replaces the old headquarters building. Construction of a new Police and Fire Headquarters facility is necessary to provide space to house the Administrative and Operational offices of these emergency services.

The request in FY09 of \$1,500,000 was allocated for land acquisition and planning and design fees. An additional \$500,000 was allocated in FY10 for the same purpose.

The land acquisition is being completed in FY10. The RFP and Proposal are being evaluated for the demolition of the existing structures on the acquired land. An architectural firm has been selected and the preliminary schematic drawings are being reviewed. The facility is estimated to contain approximately 91,000 square feet.

Demolition started in FY11. As of November 2010, all buildings but two have been demolished. Schematic drawings of the new facility are still under review. Construction is tentatively set to start in 2012.

Justification

The existing building is over 40 years old, is experiencing maintenance problems and is too small for the needs of the two departments. In addition, relocating this station further north provides better overall response coverage in the core area of the City. The current 26,000 square foot facility that houses the Police and Fire Departments has served the departments well; but because of the current demands, it is no longer able to provide the space these two departments require. Further, the age of the facility is beginning to take a toll on the exterior and interior spaces of the facility. A Facility Space Needs study was conducted in February 2006 which stated that the space needs of the Police Department to include current and future needs is 59,979 square feet. The space needs of the Fire Department to include current and future needs is 30,611 square feet.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Planning/Preliminary Design	53,000							53,000
Engineering/Design	761,000	1,203,500						1,964,500
Land/Right of Way	3,000,000							3,000,000
Construction		10,310,000	10,310,000					20,620,000
Equipment/Furnishings			1,024,455					1,024,455
Contingency		1,000,000	1,000,000					2,000,000
Construction Administration		125,392	188,089					313,481
Total	3,814,000	12,638,892	12,522,544					28,975,436

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
General Fund	4,542,543	1,770,910						6,313,453
Installment Purchase-General		22,661,983						22,661,983
Total	4,542,543	24,432,893						28,975,436

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: Affects the life, safety and property protection of this area of the City. There will be a substantial impact on both the Police and Fire Departments if this project is cancelled or delayed. Both of these emergency services have been confined to a facility for the past several years that has insufficient space to fulfill the missions and operational capabilities of both departments. Facilities Maintenance Services continual support of the interior and exterior of the facility. ITS to support the computer and telephone equipment in the facility. Estimated Costs - Electricity - \$101,461, Water/Sewer - \$6,000, Sanitation - \$3,360 and Stormwater - \$3,744 = Total Cost \$114,565.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

The Fire/Police Depts over the past several years have been unable to expand the operations of the agencies to keep pace with the growth of the City due to lack of critical physical space. The cost of being unable to expand is difficult to quantify but does have a significant impact on the agency's ability to effectively meet the needs of the community.

-Building financed for 20 years at 5.0%

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service		1,489,385	1,787,262	1,787,262	1,787,262	1,787,262	27,106,807	35,745,240
Operating Expense		114,565	118,001	121,542	125,188	128,944	386,832	995,072
Total		1,603,950	1,905,263	1,908,804	1,912,450	1,916,206	27,493,639	36,740,312

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # PD-09 GF0904
Project Name Firearms Training Range Improvements



Type New Construction
Useful Life 15
Category Buildings
Part of Master Plan N
Externally Mandated N
Department Police
Contact Tim Malfitano
Priority C Committed To
Growth Related N
Service Related Y
Status Active

Description

As of January 2011, the First Phase of improvements has been completed to this project. The Pneumatic Target System and the Bullet Trap System have each been installed.

The next Phase of improvements (FY2010/2011) include the construction of a classroom/ training building consisting of a steel and concrete structured facility approximately 4,000 square feet. Mechanicals for the facility would include, plumbing, electrical, heat and air (HVAC systems) The facility would have classroom facilities capable of sustaining 35 students. The facility would also be equipped with male/ female facilities, adequate storage and a kitchenette.

FY11 Capital Improvements include the design and site work on going.
 \$10,000 - used on engineering and design of new classroom facility,
 \$41,000- Used for slab, plumbing and site work for the training facility. Projected time to begin 3rd Quarter fiscal year 2011.

FY11 Capital Improvements include construction of training facility building and installation of paved and marked parking area. Installation of new gate system. Projected Completion is estimated for the third quarter of FY12.

Justification

Pneumatic Target System:
 A target system selected by a law enforcement agency must be dependable while allowing for precision firearms training, to include simple mandatory re-qualification and advanced reactive exercises. In addition, considerations must be made for tactical training situations which often require the officer to advance and address downrange and mobile multiple threats. The Pneumatic Target System as opposed to the current static system will enhance the firearms proficiency of our current and future law enforcement professionals and continually enhance their capabilities. The Training and Standards Commission mandates that officers maintain State Qualification yearly, with this upgrade training our officers in this technique will reduce the risk of liability.

Classroom/ Training Building : Numerous training venues are conducted on this range. Upgrading the facility will add space thus increasing student volume which will save time and money. The current classroom, as seen, is not conducive for learning by either lecture /demonstrative methods of instruction. The facility is too small with no capabilities for technological teaching mechanisms used to enhance learning. The facility pictured is not equipped for efficient cooling in the summer months nor heating in the winter season. A new facility would be outfitted with all the components necessary for conducting mandated as well as in-service instruction.

Paving the parking areas identified by usage. Currently the range has no marked and or paved parking area. This upgrade will protect the vehicles from the existing dirt and rock debris while identifying a safe area for parking for all persons visiting or using the facility, accommodating traffic and numerous students that use the facility annually. Having a designated marked area will provide a safe means of parking for visitors and or personnel involved in range functions.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design	6,821							6,821
Construction		367,203						367,203
Equipment/Furnishings	66,730	35,498						102,228
Total	73,551	402,701						476,252

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Capital Reserve Fund	51,000							51,000
E911 Fund	300,791							300,791
Fundraising	10,000							10,000
General Fund	114,461							114,461
Total	476,252							476,252

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED:

A delay or cancellation in these projects would reduce the caliber of training that police officers of this organization could receive. Firearms training is one of the most liable and litigated areas of law enforcement. The impact of the environment officers train in and the training itself greatly affects the performance of our employees and with the implementation of these projects we can greatly enhance their knowledge, skills and abilities, and considerably reduce liability costs.

Operating expenses are estimated for utilities expenses for the new training facility.

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Operating Expense	2,232	1,223	1,260	1,300	1,337			7,352
Total	2,232	1,223	1,260	1,300	1,337			7,352

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # PD-11 PD1101
Project Name Radio System Upgrade



Type Unassigned
Useful Life 20
Category Equipment
Part of Master Plan N
Externally Mandated Y

Department Police
Contact Mike Yaniero/Earl Bunting
Priority C Committed To
Growth Related N
Service Related Y
Status Active

Description

Update: On 11/16/10 City Council adjusted the 800 MHz Radio System Upgrade project funding sources and project costs. With the adoption of the FY11 CIP, the City budgeted \$150,000 for estimated consulting service costs. Total consulting costs now total \$210,500. Onslow County has agreed to contribute \$127,000 to the project's consulting expenses, which allows the City to reduce the \$150,000 budgeted by \$66,500 and return these funds to the Capital Reserve Fund.

The Police and Fire Department will be required to upgrade the existing 800 MHz system. In order to upgrade the system, the City will be required to purchase a P25 Mobile and Portable Two-Way radio system.

An upgrade to the system will consist of replacing the following:

- One (1) Trunked System Controller
- Eight (8) Digital Interface Units
- Nine (9) Consoles
- One hundred fifty-two portable two-way radios (reduced by \$16,000 4-Fire radio replacements in FY11)
- One hundred thirty-five mobile two-way radios

Quotes are being obtained. A package including an 800 MHz Trunked Radio Console Upgrade with the P25 Mobile and Portable Two-Way radios has been quoted as costing \$3,915,396.

Funding in FY11 is for the preparation of an RFP and hired consultant who will lead the process.

Justification

The Jacksonville City Police and Fire Department migrated to an 800 MHz trunked system in 1999. At the time of purchase, the City also purchased a Smartnet Analog system. The system has reached end of life and is approaching end of service. The Emergency Service of the City of Jacksonville requires a voice communications platform with the technology, equipment and procedures necessary to allow public safety agencies to communicate in order to safely, effectively, and efficiently protect the quality of life and property for our citizens. A lack of communications capabilities can lead to the loss of personal property, injury, or even loss of life.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Equipment/Furnishings		2,000,000	1,765,396					3,765,396
Consultant Fees	210,500							210,500
Total	210,500	2,000,000	1,765,396					3,975,896

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Capital Reserve Fund	83,500							83,500
Installment Purchase-General		3,765,396						3,765,396
Onslow County Government C	127,000							127,000
Total	210,500	3,765,396						3,975,896

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Impact/Other

The City's Emergency Services rely on adequate public safety radio system network as a key element of their ability as public safety providers to perform their jobs. A lack of communications capabilities can lead to the loss of personal property, injury, or even loss of life.

Financed for 5 years at 4.0%

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service		701,735	842,083	842,083	842,083	842,083	701,735	4,771,802
Total		701,735	842,083	842,083	842,083	842,083	701,735	4,771,802

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # EN-09 SF0801
Project Name Public Service/Fleet Complex - Phase II



Type	New Construction	Department	Public Services
Useful Life	30	Contact	Wally Hansen
Category	Buildings	Priority	C Committed To
Part of Master Plan	N	Growth Related	Y
Externally Mandated	N	Service Related	Y
		Status	Active

Description

This project consists of the planning, design, and construction for Phase II of the Public Services Compound. This phase includes needed improvements for the following City Divisions:

1. Fleet Maintenance: Expansion of the administrative office and 2 additional service bays in the Fleet building to maintain the eight buses associated with the Jacksonville Transit System.
2. Streets Division: Additional storage space and Aggregate Storage Bins (shared)
3. Utilities Maintenance Division: Aggregate Storage Bins (shared)
4. Sanitation: Additional storage and Assembly Building for trash carts.
5. Facilities Maintenance Services: Additional Storage Space and larger gravel laydown yard.
6. Metering: Additional storage for water meters, equipment, and repair parts.

This project includes additional required parking and stormwater system improvements which will be divided proportionately among these six divisions.

The majority of the cost increase for this project can be attributed to the City receiving American Recovery and Reinvestment Act (ARRA) funding for additional transit related components as described below.

1. Bus Parking Facility and Stormwater System: Design portion and Phase I of a bus parking facility for buses to be located at the existing transit garage facility. This will include a covered parking area and sustainable stormwater system.
2. Construct Phase I Bus Parking Facility: Construction portion of Phase I of parking facility for buses to be located at the existing transit garage facility. This will include a covered parking apron and sustainable stormwater system. This will have an expected useful life of 40 years.
3. Construction Stormwater System: Rehabilitation phase of the bus washing facility at the existing transit garage. This will include a sustainable stormwater system and water reuse system. This will have an expected useful life of 40 years.

Expenditure and Funding Details:

- 1) Two Fleet Maintenance Bays-\$728,600 (Funded with Federal Transit Funds)
Engineering-\$50,000 (TR0602), Construction-\$678,600 (TR0802)
- 2) Bus Parking Facility and Stormwater System-\$694,812 (Funded with American Recovery and Reinvestment Act Funds)
Engineering-\$78,175 (TR1002), Construction-\$616,637 (TR1002)
- 3) Water/Sewer Fund portion of project-\$389,400 (SF0801)
- 4) General Fund (capital reserve funded) portion of project-\$250,148 (SF0801)

Update: The Public Services Complex Expansion Phase 2 Project will be completed in two parts. The first part includes the expansion of the Fleet Maintenance Building to accommodate servicing the buses as well as increased parking for buses and cars which will be complete by December 2011. The second part of this project includes the addition of the bus wash facility, expanded parking, six additional storage structures and maintenance and storage for the intelligent traffic control program. Design is nearing completing and is scheduled to be let in the first quarter of 2011 and expected to be complete by December 2011.

Justification

Additions to this facility are necessary for City employees to work in a safe and efficient manner and continue to provide the current level of service to the residents of Jacksonville as the City continues to grow. Many storage areas are not sufficient for the customer base served by each of these departments. As part of this project staff will look for opportunities to improve operations and services while encouraging a more sustainable and environmentally friendly approach.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Planning/Preliminary Design	20,460							20,460
Engineering/Design	212,500							212,500
Construction	850,000	940,000						1,790,000
Contingency	55,000	55,000						110,000
Construction Administration	10,000	10,000						20,000
Total	1,147,960	1,005,000						2,152,960

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
American Recovery & Reinvest		694,812						694,812
Capital Reserve Fund	250,148							250,148
Federal Transit Funds		728,600						728,600
Revenue Bonds	389,400							389,400
Water and Sewer Fund	90,000							90,000
Total	729,548	1,423,412						2,152,960

Budget Impact/Other

Operational Impact/Other: If this project is delayed it will be difficult for the City to continue providing the current level of service based on both the recent and projected growth of the City.

The American Recovery & Reinvestment Act Funding of \$694,812 and Federal Transit Grant of \$728,600 will be forgiven in full.

-Revenue Bonds financed for 20yrs at 3.97% (\$389,400)

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service-Revenue Bonds	14,410	28,820	28,820	28,820	57,640	28,820	360,250	547,580
Total	14,410	28,820	28,820	28,820	57,640	28,820	360,250	547,580

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project #	EN-12-001
Project Name	New Bridge Streetscape

Type	Improvement	Department	Public Services
Useful Life	30	Contact	Ron Massey
Category	Streets	Priority	L Low Priority
Part of Master Plan	Y	Growth Related	N
Externally Mandated	N	Service Related	N
		Status	Active

Description

This project consists of streetscape improvements to New Bridge Street from Johnson Boulevard to Bayshore Boulevard to correlate with the Freedom Fountain Initiative.

Justification

Streetscape improvements will create confidence in the private sector and lead to increased investment in property improvements and foster redevelopment along New Bridge Street and surrounding downtown area.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design		2,000						2,000
Land/Right of Way		125,000						125,000
Total		127,000						127,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Capital Reserve Fund		127,000						127,000
Total		127,000						127,000

Budget Impact/Other

IMPACT IF CANCELLED OR DEPLOYED: Ongoing operations and maintenance will continue to increase as the existing infrastructure continues to deteriorate.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project #	EN-12-003
Project Name	Gateway Median Improvements

Type	Rehabilitation	Department	Public Services
Useful Life	10	Contact	Ron Massey
Category	Streets	Priority	M Medium Priority
Part of Master Plan	N	Growth Related	N
Externally Mandated	N	Service Related	N
		Status	Active

Description

This is a pilot program designed to make aesthetic improvements to street medians along Gateway corridors. This first project will focus on the intersection of Western Boulevard and Hwy 17. The City will investigate opportunities for alternate funding which may include partnering with private businesses located in this area and/or NCDOT Enhancement Grants.

Justification

In keeping with Council's goal, this project will aesthetically improve key corridors within the City.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Construction		50,000						50,000
Total		50,000						50,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
NCDOT Grant		50,000						50,000
Total		50,000						50,000

Budget Impact/Other

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # EN-13-002
Project Name Freedom Fountain Phase II



Type New Construction
Useful Life
Category Parks
Part of Master Plan Y
Externally Mandated N

Department Public Services
Contact
Priority C Committed To
Growth Related N
Service Related N
Status Active

Description

Freedom Fountain will be constructed at the intersection of New Bridge Street and Johnson Boulevard to tie together the Beirut, Vietnam Veterans and 9/11 Memorials through the enhancement of the Freedom Highway (Lejeune Boulevard).

Phase II of the Freedom Fountain project will include the purchase of symbols representing the 50 states, the branches of the United States Government, and/or the United States Armed Forces.

Justification

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Equipment/Furnishings			500,000					500,000
Total			500,000					500,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Installment Purchase-General			500,000					500,000
Total			500,000					500,000

Budget Impact/Other

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service			38,447	46,137	46,137	46,137	745,881	922,739
Total			38,447	46,137	46,137	46,137	745,881	922,739

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SK-11 GF1107
Project Name NCDOT Partnered Ped Improvements



Type Improvement	Department Public Services
Useful Life 20	Contact Wally Hansen
Category Sidewalks	Priority H High Priority
Part of Master Plan Y	Growth Related N
Externally Mandated N	Service Related Y
	Status Active

Description

This project includes upgrades to two intersections to improve pedestrian safety. Recommended treatments include: marked crosswalks, advance stop lines, curb ramps, median islands, reduced curb radius, turn lane islands, and countdown signals.

This project will be a joint effort between the NCDOT and the City. Total project cost is estimated to be \$1,079,711, of which NCDOT will fund \$774,711 and the City will provide \$305,000 in funding. The two pedestrian improvement crosswalks include Western/Country Club and Western/US 17 Highway.

Update: This project was approved in FY11 and originally included upgrades to three intersections to improve pedestrian safety. However, the overall scope of this project has been reduced resulting in the removal of the intersection of Gum Branch-Bell Fork/US 17 Highway. The City has also received notification from NCDOT that the cost estimate for this project has increased thereby increasing the City's share of funding an additional \$34,000. Bids are expected to be opened in February 2011.

Justification

This project will improve pedestrian safety and improve connectivity to commercial destinations and the surrounding residential area. As well as capitalize upon the availability of external resources for project funding.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Construction		1,079,711						1,079,711
Total		1,079,711						1,079,711

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
NCDOT Grant		774,711						774,711
Powell Bill	305,000							305,000
Total	305,000	774,711						1,079,711

Budget Impact/Other

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project #	SK-12-000
Project Name	FY12 Sidewalk Installation

Type	New Construction	Department	Public Services
Useful Life	20	Contact	Wally Hansen
Category	Sidewalks	Priority	M Medium Priority
Part of Master Plan	Y	Growth Related	N
Externally Mandated	N	Service Related	Y
		Status	Active

Description
-Kerr Street: Install approximately 1,650 linear feet of a 5-foot wide sidewalk along Kerr Street. Cost= \$83,000
-Downtown Sidewalk Connections: Install small sections of 5-foot wide sidewalk in the Downtown area to improve pedestrian connections. Cost = \$35,000

Justification
The sidewalk installation program is designed to increase the (1) connectivity of existing sidewalks within our community's neighborhoods, (2) connectivity between and among these neighborhoods and (3) connectivity along and between the City's major commercial corridors.
There are sections of Kerr Street that are missing sidewalks or existing sidewalks do not meet current City standards. This project will improve pedestrian safety and improve connectivity in the downtown area.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design		7,000						7,000
Construction		104,000						104,000
Contingency		3,000						3,000
Construction Administration		4,000						4,000
Total		118,000						118,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Powell Bill		118,000						118,000
Total		118,000						118,000

Budget Impact/Other

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SK-12-002
Project Name Hargett Street Pedestrian Improvements



Type Improvement
Useful Life 20
Category Sidewalks
Part of Master Plan Y
Externally Mandated N

Department Public Services
Contact Wally Hansen
Priority M Medium Priority
Growth Related N
Service Related Y
Status Active

Description

This project includes upgrades to the Hargett Street/New River intersection and Bell Fork/Hargett intersection to improve pedestrian safety. Recommended treatments include: repaint marked crosswalks, advance stop lines, curb ramps, pedestrian countdown signalization and restrict right turn on red.

Justification

The Hargett Street/New River intersection is ranked as the number 10 priority intersection in the Jacksonville Bicycle and Pedestrian Transportation Plan. It has the number 11 ranking in pedestrian crashes and is located on a priority street corridor.

The Bell Fork/Hargett Street intersection is ranked the number 8 priority intersection in the Jacksonville Bicycle and Pedestrian Transportation Plan. It has the number 7 ranking in pedestrian crashes and is located on a priority street corridor.

These projects will improve pedestrian safety and improve connectivity to Clyde Erwin Elementary, commercial destinations and the surrounding residential area. The goal will be to partner with NCDOT to include these projects in the Hargett Street resurfacing project.

Cost estimates for this project are based on the Jacksonville Bicycle and Pedestrian Transportation Plan.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design		13,000						13,000
Construction		135,000						135,000
Contingency		10,000						10,000
Construction Administration		13,000						13,000
Total		171,000						171,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
General Fund		171,000						171,000
Total		171,000						171,000

Budget Impact/Other

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project #	SK-13-000
Project Name	FY13 Sidewalk Installation

Type	New Construction	Department	Public Services
Useful Life	15	Contact	Wally Hansen
Category	Sidewalks	Priority	C Committed To
Part of Master Plan	Y	Growth Related	N
Externally Mandated	N	Service Related	Y
		Status	Active

Description

-Estate Drive: Infill approximately 600 linear feet of 5-foot wide sidewalk along the entire south/east side of Estate Drive. Cost = \$25,000.

-Plaza Drive: Install approximately 1,800 linear feet of 5-foot wide sidewalk along the east side of Plaza Drive between Quality Lane and Carmen Avenue with marked crosswalks at intersections. Cost = \$75,000.

-Carmen Avenue: Install approximately 600 linear feet of 5-foot wide sidewalk along the north side of Carmen Avenue. Cost - \$25,000.

-Brook Valley Park Driveway: Install approximately 250 linear feet of 5-foot sidewalk along the north side of the driveway to connect sidewalk on Estate Drive to the park. Cost = \$10,000.

Justification

The sidewalk installation program is designed to increase the (1) connectivity of existing sidewalks within our community's neighborhoods, (2) connectivity between and among these neighborhoods and (3) connectivity along and between the City's major commercial corridors.

This project will improve pedestrian safety and help improve neighborhood connectivity. Two segments, Estate Drive and Dewitt Street, have both been identified as high-priority pedestrian improvement by the Bicycle and Pedestrian Plan while others will provide connectivity to either a greenway trail, transit stops and/or commercial land uses.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design			11,000					11,000
Construction			109,000					109,000
Contingency			5,000					5,000
Construction Administration			10,000					10,000
Total			135,000					135,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Powell Bill			135,000					135,000
Total			135,000					135,000

Budget Impact/Other

--

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SK-14-001
Project Name FY14 Bike Lanes



Type Improvement
Useful Life 20
Category Sidewalks
Part of Master Plan Y
Externally Mandated N

Department Public Services
Contact Wally Hansen
Priority M Medium Priority
Growth Related N
Service Related Y
Status Active

Description

-Restripe Doris Avenue from Gum Branch Road to Henderson Drive to include 5-foot bike lanes on either side of the roadway. Cost= \$47,000
 -Restripe East Railroad/Chaney Avenue from Marine Boulevard to Court Street to include 5-foot bike lanes on either side of the roadway. Cost=\$42,500

Justification

East Railroad/Chaney Avenue is ranked the number 7 corridor and Doris Avenue is ranked the number 10 corridor of Bicycle Top Priorities in the Jacksonville Bicycle and Pedestrian Transportation Plan. This project will improve pedestrian safety and improve connectivity to commercial destinations and the surrounding residential area.

Cost estimates for this project are based on the Jacksonville Bicycle & Pedestrian Transportation Plan.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design				7,000				7,000
Construction				72,000				72,000
Contingency				6,500				6,500
Construction Administration				4,000				4,000
Total				89,500				89,500

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Powell Bill				89,500				89,500
Total				89,500				89,500

Budget Impact/Other

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SK-15-000
Project Name FY15 Sidewalk Improvements



Type Improvement **Department** Public Services
Useful Life 20 **Contact** Wally Hansen
Category Sidewalks **Priority** M Medium Priority
Part of Master Plan Y **Growth Related** N
Externally Mandated N **Service Related** Y
Status Active

Description

-Country Club Road Section I: Installation of approximately 5,500 linear feet of 5-foot wide sidewalk on the south side of Country Club Road from Bell Fork Road to Western Boulevard. Cost = \$247,000.
 -Country Club Road Section II: Install a small section of 5-foot wide sidewalk on the south side of Country Club Road to complete the connection from Western Boulevard to Independence Drive. Cost = \$27,000.

Justification

Sidewalk installation along Country Club Road and intersection improvements are identified as high priorities by the Bicycle and Pedestrian Plan and the draft Country Club/Sandy Run Neighborhood Plan.
 Cost estimates for this project are based on the Jacksonville Bicycle and Pedestrian Transportation Plan.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design					22,000			22,000
Construction						223,000		223,000
Contingency					11,000			11,000
Construction Administration						18,000		18,000
Total					33,000	241,000		274,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Powell Bill					33,000	241,000		274,000
Total					33,000	241,000		274,000

Budget Impact/Other

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SK-16-000
Project Name FY16 Pedestrian Improvements



Type Improvement **Department** Public Services
Useful Life 20 **Contact** Wally Hansen
Category Sidewalks **Priority** M Medium Priority
Part of Master Plan Y **Growth Related** N
Externally Mandated N **Service Related** Y
Status Active

Description

Install approximately 6,000 linear feet of a 5-foot wide sidewalk along north side of Brynn Marr Road from Bell Fork Road to Pine Valley Road. This project also includes upgrades to the intersection of Brynn Marr and Western Boulevard to improve pedestrian safety. Recommended treatments include: marked crosswalks, advance stop lines, curb ramps, median island, reduced curb radius, turn lane islands, and countdown signals. Cost = \$903,000.

Staff is working with NCDOT to include both intersection improvements in their upcoming street resurfacing projects.

Justification

Sidewalk installation along Brynn Marr and intersection improvements are identified as high priorities by the Bicycle and Pedestrian Plan.

Cost estimates for this project are based on the Jacksonville Bicycle and Pedestrian Transportation Plan.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design						73,000		73,000
Construction							734,000	734,000
Contingency							37,000	37,000
Construction Administration							59,000	59,000
Total						73,000	830,000	903,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Powell Bill						73,000	830,000	903,000
Total						73,000	830,000	903,000

Budget Impact/Other

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # II-09 SF0304
Project Name Inflow & Infiltration (I&I) Rehabilitation Phase I



Type Rehabilitation
Useful Life 30
Category Sewer - Lines (Other)
Part of Master Plan N
Externally Mandated N
Department Public Services
Contact Wally Hansen
Priority C Committed To
Growth Related Y
Service Related Y
Status Active

Description

In April 2009 Malcom Pirnie, Inc. developed a 3 year Sanitary Sewer Rehabilitation Plan for the City. The plan identified 7 key areas where I & I could be eliminated. It then provided recommendations for a two phased action plan.

The first phase of this rehabilitation project utilizes trenchless technologies including cured in place pipe lining, cured in place point repairs, injection grouting and cured in place lateral lining to repair problems that have already be identified.

Update: This project has been bid and awarded and should be completed during FY12.

Justification

This project is an ongoing effort to minimize water inflow and infiltration into the wastewater system and reduce overall flow at the sewer treatment site. An aggressive I&I program could help regain system and treatment capacity.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Planning/Preliminary Design	26,900							26,900
Engineering/Design	125,000							125,000
Construction	870,000	330,000						1,200,000
Construction Administration	5,000	55,000						60,000
Total	1,026,900	385,000						1,411,900

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
I&I Fund	500,000							500,000
Revenue Bonds	911,900							911,900
Total	1,411,900							1,411,900

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: The LTS will continue to see spikes in wastewater flow during wet weather periods which could violate the City's wastewater permit.

-Revenue Bonds financed for 20 years at 3.355%

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service -Stormwater Fun							273,724	273,724
Debt Service-Revenue Bonds	15,297	30,594	30,594	30,594	30,594	30,594	1,020,844	1,189,111
Total	15,297	30,594	30,594	30,594	30,594	30,594	1,294,568	1,462,835

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # II-12-001
Project Name Inflow & Infiltration (I&I) Phase II



Type Rehabilitation
Useful Life 30
Category Sewer - Lines (Other)
Part of Master Plan N
Externally Mandated N

Department Public Services
Contact Wally Hansen
Priority M Medium Priority
Growth Related Y
Service Related Y
Status Active

Description

In April 2009 Malcom Pirnie, Inc. developed a 3 year Sanitary Sewer Rehabilitation Plan for the City. The plan identified 7 key areas where I & I could be eliminated. It then provided recommendations for a two phased action plan.

The second phase of this rehabilitation project will utilize a find-and-fix method whereby closed-circuit televising of the sewer collection system, manhole inspection and smoke testing is used to pin-point sources of Inflow and Infiltration. Once a problem has been identified the appropriate repair will be made using a combination of trenchless technologies including cured in place pipe lining, cured in place point repairs, injection grouting and cured in place lateral lining.

Justification

This project is an ongoing effort to minimize water inflow and infiltration into the wastewater system and reduce overall flow at the sewer treatment site. An aggressive I&I program could help regain system and treatment capacity.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design			88,000	88,000				176,000
Construction			800,000	800,000				1,600,000
Construction Administration			45,000	41,010				86,010
Total			933,000	929,010				1,862,010

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Revenue Bonds			1,776,000					1,776,000
Sewer Fund			45,000	41,010				86,010
Total			1,821,000	41,010				1,862,010

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: The LTS will continue to see spikes in wastewater flow during wet weather periods which could violate the City's wastewater permit.

-Revenue bonds financed for 20 years at 5%.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service-Revenue Bonds			70,749	141,498	141,498	141,498	2,476,215	2,971,458
Total			70,749	141,498	141,498	141,498	2,476,215	2,971,458

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SR-08 SF1110
Project Name Henderson Lift Station Upgrade



Type Improvement
Useful Life 20
Category Sewer - Lift Station
Part of Master Plan Y
Externally Mandated N
Department Public Services
Contact Wally Hansen
Priority C Committed To
Growth Related Y
Service Related Y
Status Active

Description

Full replacement and upgrade of the Henderson Drive Lift Station which consists of the construction of a new 9,200 gpm sewage lift station with all equipment to include flooded suction pumps, piping, controls, electrical service upgrades, diesel generator, site improvements and the demolition/abandonment of the existing 5,208 gpd lift station. This station is currently in need of new electrical panels, new control units, and major structural upgrades. The Wastewater Collection System Master Plan also identifies this station as needing additional capacity to serve short-term growth within the Henderson Basin.

Update: The planning report has been completed and approved by the State. This report was based on the Sewer Service Area Master Plan which supercedes the Wastewater Collection System Master Plan. This change is important because the newer plan allows for a reduction in the increased pumping rate to be provided at the Henderson station as part of the currently designed upgrades. The State has determined that an Environmental Assesment will not be required based on the findings of the planning report and the Sewer Service Area Master Plan. The design of the station is currently underway.

Justification

The Wastewater Collection System Master Plan predicts that as the Henderson Outfall basin continues to grow, more sewer flow will be ultimately routed to the station indicating the potential for flow rates beyond its current capacity. This basin includes areas from the lift station at Henderson Drive to Empire Boulevard including Gum Branch Road (south of Henderson Drive), Sherwood Forest, Cardinal Village, Henderson Drive Extension, Western Boulevard (between of US 17 and Carolina Forest Boulevard), Carolina Forest, Jacksonville Commons, and West Fairway Road.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Planning/Preliminary Design	26,840							26,840
Engineering/Design	250,000							250,000
Land/Right of Way		50,000						50,000
Construction		1,265,000	1,265,000					2,530,000
Contingency		125,000	125,000					250,000
Construction Administration		75,000	74,250					149,250
Total	276,840	1,515,000	1,464,250					3,256,090

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Revenue Bonds			3,180,000					3,180,000
Sewer Fund	26,840	49,250						76,090
Total	26,840	49,250	3,180,000					3,256,090

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: IMPACT IF CANCELLED OR DELAYED: Delay of this project could create a situation where the pump station is over capacity and could overflow during peak wet weather conditions. This station will not handle the short-term build out of this basin.

-Revenue bonds financed for 20 years at 5%.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service-Revenue Bonds			36,450	72,900	72,900	72,900	1,202,850	1,458,000
Total			36,450	72,900	72,900	72,900	1,202,850	1,458,000

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SR-11 SF1101
Project Name Warlick St & Koonce Cir Sewer Replacement (FY11)



Type Rehabilitation
Useful Life 30
Category Sewer - Trunk Lines
Part of Master Plan Y
Externally Mandated N

Department Public Services
Contact Wally Hansen
Priority C Committed To
Growth Related N
Service Related Y
Status Active

Description

-Warlick Street Sewer: Rehabilitate and/or relocate the sewer line and associated services from Warlick Street to Wardola Drive that extends to the rear of the properties along Koonce Circle. Cost= \$415,000

-Koonce Circle Sewer: Replace approximately 500 linear feet of 8-inch vitrified clay sewer lines along Koonce Circle. Cost= \$120,000

Justification

This sewer replacement project is an ongoing program consisting of the replacement, repair, or reconstruction of deteriorating sewer lines. The repair or replacement of deteriorated lines is intended to improve the City's overall wastewater collection system. This program is in line with the type of preventative maintenance the State expects and may decrease the likelihood of enforcement actions should the City experience sewer overflows.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design	45,000							45,000
Construction		425,000						425,000
Contingency		42,000						42,000
Total	45,000	467,000						512,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Revenue Bonds		467,000						467,000
Sewer Fund	45,000							45,000
Total	45,000	467,000						512,000

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: Further deterioration of the City's wastewater system could result in sewer overflows and enforcement actions/fines from the State.

These improvements should also reduce the number of service calls and repairs Lines Maintenance is responsible for associated with antiquated pipe and materials.

-Revenue bonds financed for 20 years at 5.0%

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service-Revenue Bonds		18,604	37,207	37,207	37,207	37,207	576,709	744,141
Total		18,604	37,207	37,207	37,207	37,207	576,709	744,141

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project #	SR-11 SF1102
Project Name	Southwest Regional Lift Station (Springdale)

Type	New Construction	Department	Public Services
Useful Life	30	Contact	Billy Joe Farmer
Category	Sewer - Lift Station	Priority	C Committed To
Part of Master Plan	Y	Growth Related	Y
Externally Mandated	N	Service Related	Y
		Status	Active

Description

This project consists of the construction of a lift station strategically located in the Southwest region of Onslow County adjacent to the existing city of Jacksonville corporate limits. The project will include all associated costs and activities such as acquisition of land, design and professional services and required permitting.

Justification

This project is in conformity with the City of Jacksonville Sewer Service Masterplan, as approved by City Council. This project is also in conformity with the stated intentions of City of Jacksonville in relation to extension of its corporate limits, and is located in an area of current interest. Implementation of this project is intended as the catalyst for the potential leveraging of new grant funds for the service of existing areas, but also as an impetus to development of the surrounding areas and extension of valuable infrastructure by private developers, all in conformity with the City's corporate limits extension policy.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design	80,000							80,000
Construction	200,000	750,000						950,000
Contingency		80,000						80,000
Construction Administration		35,000						35,000
Total	280,000	865,000						1,145,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Revenue Bonds		915,000						915,000
Sewer Fund	80,000	150,000						230,000
Total	80,000	1,065,000						1,145,000

Budget Impact/Other

-Revenue bonds financed for 20 years at 5.0%.

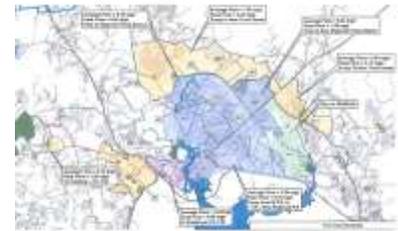
Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service-Revenue Bonds		61,388	73,666	73,666	73,666	73,666	1,117,268	1,473,320
Total		61,388	73,666	73,666	73,666	73,666	1,117,268	1,473,320

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SR-11 SF1104
Project Name Parkwood Regional Lift Station and Forcemain



Type New Construction
Useful Life 30
Category Sewer - Lift Station
Part of Master Plan Y
Externally Mandated N
Department Public Services
Contact Wally Hansen
Priority C Committed To
Growth Related Y
Service Related Y
Status Active

Description

Construct a new 4.5 mgd lift station in the Parkwood area and a new 36-inch regional force main that will connect to the City's Land Treatment Site that will serve the areas north of Western Boulevard extension.

Cost estimates for this project are based on the adopted Sewer Service Area Master Plan.

Justification

The Jacksonville Sewer Service Area Master Plan was developed to investigate the short and long term sewer infrastructure and treatment needs to accommodate population growth and service area expansion for the City of Jacksonville.

In evaluating the projected pattern of growth and the location of the existing infrastructure, the need to convey wastewater around the existing congested City system became evident. This project is a key component to providing sewer service to the Gum Branch and northern Piney Green areas as adopted by Council in the Sewer Service Area Master Plan.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Planning/Preliminary Design	150,000							150,000
Engineering/Design		595,710	618,000					1,213,710
Construction				5,200,000	5,100,000			10,300,000
Contingency				1,030,000	1,030,000			2,060,000
Construction Administration			369,860	206,000	206,000			781,860
Total	150,000	595,710	987,860	6,436,000	6,336,000			14,505,570

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Revenue Bonds			13,596,000					13,596,000
Sewer Fund	150,000		347,570	412,000				909,570
Total	150,000		13,943,570	412,000				14,505,570

Budget Impact/Other

-Revenue bonds financed for 20 years at 5%

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service-Revenue Bonds			541,613	1,083,227	1,083,227	1,083,227	17,828,295	21,619,589
Total			541,613	1,083,227	1,083,227	1,083,227	17,828,295	21,619,589

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SR-11 SF1105
Project Name Western Trunk Sewer (Lower)

Type New Construction
Useful Life 30
Category Sewer - Trunk Lines
Part of Master Plan Y
Externally Mandated N

Department Public Services
Contact Wally Hansen
Priority C Committed To
Growth Related Y
Service Related Y
Status Active

Description

Construct a 54-inch regional trunk sewer from the new Parkwood Regional Lift Station along Western Boulevard to Carolina Forest Boulevard.

Cost estimates for this project are based on the adopted Sewer Service Area Master Plan.

Justification

The Jacksonville Sewer Service Area Master Plan was developed to investigate the short and long term sewer infrastructure and treatment needs to accommodate population growth and service area expansion for the City of Jacksonville.

In evaluating the projected pattern of growth and the location of the existing infrastructure, the need to convey wastewater around the existing congested City system became evident. This project is a key component to providing sewer service to the Gum Branch and northern Piney Green areas as adopted by Council in the Sewer Service Area Master Plan.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Planning/Preliminary Design	50,000							50,000
Engineering/Design		120,000	120,000					240,000
Construction				1,000,000	1,000,000			2,000,000
Contingency				200,000	200,000			400,000
Construction Administration				80,000	80,000			160,000
Total	50,000	120,000	120,000	1,280,000	1,280,000			2,850,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Revenue Bonds				2,400,000				2,400,000
Sewer Fund	50,000	120,000	120,000	160,000				450,000
Total	50,000	120,000	120,000	2,560,000				2,850,000

Budget Impact/Other

-Revenue bonds financed for 20 years at 5.0%.

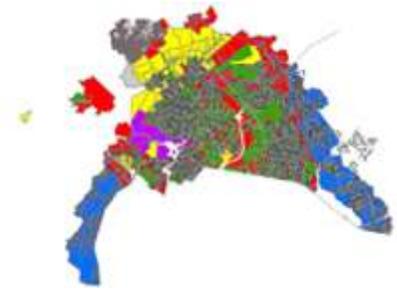
Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service-Revenue Bonds				95,607	191,214	191,214	3,346,245	3,824,280
Total				95,607	191,214	191,214	3,346,245	3,824,280

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SR-11 SF1106
Project Name WW Collection Sys Imp - Main Outfall F1



Type Improvement	Department Public Services
Useful Life 30	Contact Wally Hansen
Category Sewer - Trunk Lines	Priority C Committed To
Part of Master Plan Y	Growth Related Y
Externally Mandated N	Service Related Y
	Status Active

Description

Replace approximately 900 linear feet of 24-inch force main with 36-inch force main. These recommended improvements to the wastewater collection system required to address existing system deficiencies and those that are projected to result from short-term development. Cost estimates for this project are based on the City's Wastewater Collection System Master Plan.

Justification

In accordance with the 2006 Wastewater Collection System Master Plan, improvements are necessary to provide sanitary sewer collection service throughout the City's existing and projected service area. The actual pace and location of new development over the next 10-15 years will affect the planning of these improvements. In addition, these improvements will be needed to support recommendations made as part of the Service Area Master Plan adopted by City Council in 2009.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design	78,000							78,000
Construction		285,000						285,000
Contingency		28,000						28,000
Construction Administration		18,810						18,810
Total	78,000	331,810						409,810

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Revenue Bonds		313,000						313,000
Sewer Fund	78,000	18,810						96,810
Total	78,000	331,810						409,810

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: The 2006 Wastewater Collection System Master Plan indicates facilities will fail under existing conditions during peak wet weather. Not completing these improvements could have a negative impact on upstream growth.

-Revenue bonds financed for 20 years at 5.0%.

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service-Revenue Bonds		12,469	24,937	24,937	24,937	24,937	386,524	498,741
Total		12,469	24,937	24,937	24,937	24,937	386,524	498,741

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SR-11 SF1108
Project Name Piney Green Road Sewer Infrastructure Improvements

Type New Construction	Department Public Services
Useful Life 30	Contact Gregory K. Meshaw
Category Sewer - Trunk Lines	Priority H High Priority
Part of Master Plan Y	Growth Related Y
Externally Mandated N	Service Related Y
	Status Active

Description

Performance of work necessary to construct a force main and gravity sewer ready to construct within the timeline set forth by the North Carolina Department of Transportation (NCDOT) and as part of the NCDOT Project U-3810 to widen SR-1406 (Piney Green Road). This work is to include preliminary analysis, design, permitting, bidding, and any other services related to readying the project for construction. It is to be performed by an engineering consultant selected by and subsequently under contract to the Onslow Water and Sewer Authority (ONWASA). ONWASA is to pay progress billings from the consultant as they occur. The City will reimburse ONWASA for fifty percent (50%) of the engineering expenses related to the project on a frequency billed by ONWASA to the City. The work is scheduled to begin in FY 2011.

Update: ONWASA is currently in the design phase of this project. Since the City is sharing in the expenses of the design/easement phase, a reservation fee is available to the City to reserve 1 mgd at the treatment facility as well as within the proposed lines along Piney Green Road. Both entities are currently discussing the terms of this agreement in more detail whereby ONWASA would serve as a wholesaler and receive wastewater from the City of Jacksonville through an existing ONWASA-Base Agreement. The City would pay the monthly expense of treating the wastewater it transmits to the ONWASA system.

The entire cost of the project is currently estimated at \$6,463,000 to include design, easement acquisition, survey, construction administration, construction, and contingency. The City's estimated cost for the design/easement acquisition is \$612,800. The City's preliminary estimated cost for construction to include contingency is \$2,618,700. Once the agreement between the City and ONWASA has been finalized and bids have been received, the cost for construction will be updated. This existing budget for the project was \$600,000 in FY 2011.

Justification

The City and ONWASA share the same desire to provide wastewater service to all citizen of Onslow County particularly those with a history of failing septic tank systems and similar problems. The extension of a trunk sewer, force main, additional gravity sewer and a pump station along Piney Green Road will make sewer service available to existing and future residents and businesses.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design	350,650							350,650
Land/Right of Way	149,850							149,850
Construction		1,190,158	1,190,157					2,380,315
Contingency		119,192	119,193					238,385
Permitting	3,500							3,500
Land Surveying	96,000							96,000
Total	600,000	1,309,350	1,309,350					3,218,700

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Revenue Bonds		2,618,700						2,618,700
Water and Sewer Fund	600,000							600,000
Total	600,000	2,618,700						3,218,700

Budget Impact/Other

Water / Sewer Installment purchase financed for 20 at 5.0%

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service-Revenue Bonds		172,106	206,527	206,527	206,527	206,527	3,132,326	4,130,540
Total		172,106	206,527	206,527	206,527	206,527	3,132,326	4,130,540

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SR-11-SF1109
Project Name SCADA for Wastewater Lift Stations

Type Replacement	Department Public Services
Useful Life 20	Contact Wally Hansen
Category Sewer - Lift Station	Priority H High Priority
Part of Master Plan N	Growth Related Y
Externally Mandated N	Service Related Y
	Status Active

Description

Develop a new SCADA system to monitor the City's existing wastewater collection system at each individual lift station. The key components of this project will consist of Remote Terminal Units (RTUs), Spread Spectrum Radios, antennas, software/firmware, and all required programming for each of the 36 lift stations.

This Project shall be completed in phases. The first phase shall consist of the complete overall design for all 36 lift stations and purchase of equipment, installation and programming for six of the major stations.

This will allow mechanics to view statistical data from any laptop resulting in better time management, quicker reaction to alarms, and analyzing critical data.

Justification

The City's water and wastewater SCADA (Supervisory Control and Data Acquisition) Systems have been based on proprietary components that are not readily available and are limited in their abilities to monitor and control critical operating functions. The existing water and wastewater systems operate on two different software platforms that do not communicate with one another.

The integration of new water system SCADA hardware and software is currently under development and has been funded by ARRA. The water project will also install the network backbone for a new sewer SCADA system.

This system is necessary to enhance operational efficiencies and control capabilities by providing accurate and timely reading, recording, and monitoring of wastewater flow. Currently, response personnel must travel to each lift station to determine the nature of the problem when an alarm is triggered often requiring response personnel and vehicles to respond during non-working hours.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Construction		864,000						864,000
Other	250,000							250,000
Contingency		80,000						80,000
Total	250,000	944,000						1,194,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Water and Sewer Fund	250,000	944,000						1,194,000
Total	250,000	944,000						1,194,000

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: Further deterioration of the City's wastewater system could result in sewer overflows and enforcement actions/fines from the State. These improvements should also reduce the number of service calls that require response personnel and vehicles to respond during both working and non-working hours.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SR-12 SF1203
Project Name College St Sewer Replacement (FY12)



Type Replacement
Useful Life 30
Category Sewer - Trunk Lines
Part of Master Plan Y
Externally Mandated N

Department Public Services
Contact Wally Hansen
Priority C Committed To
Growth Related N
Service Related Y
Status Active

Description

College Street Sewer: Replace approximately 1,600 feet of 8 and 12-inch vitrified clay sewer line along College Street.

Justification

This sewer replacement project is an ongoing program consisting of the replacement, repair, or reconstruction of deteriorating sewer lines. The repair or replacement of deteriorated lines is intended to improve the City's overall wastewater collection system. This program is in line with the type of preventative maintenance the State expects and may decrease the likelihood of enforcement actions should the City experience sewer overflows.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design		25,740						25,740
Construction			255,000					255,000
Contingency			25,000					25,000
Total		25,740	280,000					305,740

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Revenue Bonds			280,000					280,000
Sewer Fund		25,740						25,740
Total		25,740	280,000					305,740

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: Further deterioration of the City's wastewater system could result in sewer overflows and enforcement actions/fines from the State.

These improvements should also reduce the number of service calls and repairs Lines Maintenance is responsible for associated with antiquated pipe and materials.

Revenue bonds financed for 20 yrs at 5.0%

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service-Revenue Bonds			11,154	22,308	22,308	22,308	368,082	446,160
Total			11,154	22,308	22,308	22,308	368,082	446,160

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SR-12 SF1202
Project Name Memorial Lift Station Replacement



Type Replacement
Useful Life 20
Category Sewer - Lift Station
Part of Master Plan Y
Externally Mandated N

Department Public Services
Contact Wally Hansen/Wynne Ray
Priority H High Priority
Growth Related N
Service Related Y
Status Active

Description

Full replacement of Memorial Lift Station which consists of the construction of a 200 gpm submersible sewage lift station with all equipment and piping, controls, electrical service upgrades, diesel generator, site improvements and the demolition/abandonment of the existing Cantex style lift station.

Update: This project has been moved in priority from FY2013 to FY2012 since it is experiencing repeated failures due to age, overall condition and corrosion. Overall performance of this station is declining with operational costs increasing.

Justification

This station was constructed in 1970's and is nearing the end of its useful life with antiquated pumps and equipment. In addition, Cantex style stations create a safety hazard for maintenance personnel. A Cantex station is a deep metal vertical cylinder that houses both the electrical controls and pumps that serve the lift station. Maintenance of the Cantex station requires physical entry into a confined space, requiring entry with a tripod and metal cable, by maintenance personnel. Entry is made near electrical equipment surrounded by metal. When stations flood unexpectedly from leaks or during storm events the maintenance of equipment with the combined hazards of sewage gases and electricity pose a safety hazard to life and limb from potential drowning, electrocution, and/or possibly explosion.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design		68,310						68,310
Land/Right of Way		50,000						50,000
Construction			460,000					460,000
Contingency			46,000					46,000
Total		118,310	506,000					624,310

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Revenue Bonds			506,000					506,000
Sewer Fund		118,310						118,310
Total		118,310	506,000					624,310

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: Maintenance cost will continue to increase. Continued deterioration could cause catastrophic failure of the station resulting in sanitary sewer overflows and loss of service to area residents and businesses. A deteriorating Cantex style station also increases the likelihood for costs associated with injured maintenance personnel.

-Revenue bonds financed for 20 years at 5.0%.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service-Revenue Bonds			20,157	40,314	40,314	40,314	624,867	765,966
Total			20,157	40,314	40,314	40,314	624,867	765,966

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SR-12 SF1201
Project Name Canterbury Lift Station Replacement



Type Replacement
Useful Life 20
Category Sewer - Lift Station
Part of Master Plan Y
Externally Mandated N
Department Public Services
Contact Wally Hansen/Wynne Ray
Priority H High Priority
Growth Related N
Service Related Y
Status Active

Description

Full replacement of Canterbury Lift Station which consists of the construction of a 250 gpm submersible sewage lift station with all equipment and piping, controls, electrical service upgrades, diesel generator, site improvements and the demolition/abandonment of the existing Cantex style lift station.

Update: This project has been moved in priority from FY2014 to FY2012 since it is experiencing repeated failures due to age, overall condition and corrosion. Overall performance of this station is declining with operational costs increasing.

Justification

This station was constructed in 1979. It is nearing the end of its useful life with antiquated pumps and equipment. In addition, Cantex style stations create a safety hazard for maintenance personnel. A Cantex station is a deep metal vertical cylinder that houses both the electrical controls and pumps that serve the lift station. Maintenance of the Cantex station requires physical entry into a confined space, requiring entry with a tripod and metal cable, by maintenance personnel. Entry is made near electrical equipment surrounded by metal. When stations flood unexpectedly from leaks or during storm events the maintenance of equipment with the combined hazards of sewage gases and electricity pose a safety hazard to life and limb from potential drowning, electrocution, and/or possibly explosion.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design		56,430						56,430
Construction			514,000					514,000
Contingency			51,000					51,000
Total		56,430	565,000					621,430

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Revenue Bonds			565,000					565,000
Sewer Fund		56,430						56,430
Total		56,430	565,000					621,430

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: Maintenance cost will continue to increase. Continued deterioration could cause catastrophic failure of the station resulting in sanitary sewer overflows and loss of service to area residents and businesses. A deteriorating Cantex style station also increases the likelihood for costs associated with injured maintenance personnel.

Revenue bonds financed for 20 years at 5.0%

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service-Revenue Bonds			22,507	45,015	45,015	45,015	742,747	900,299
Total			22,507	45,015	45,015	45,015	742,747	900,299

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SR-14-000
Project Name Frances, Cando, & Palm Sewer Replacement (FY14)



Type Replacement
Useful Life 30
Category Sewer - Trunk Lines
Part of Master Plan Y
Externally Mandated N
Department Public Services
Contact Wally Hansen
Priority C Committed To
Growth Related N
Service Related Y
Status Active

Description

-Frances/Daisy Street Sewer: Replace and/or relocate the sewer main serving Frances and Daisy Street. Cost= \$563,000
 -Cando Place Sewer: Replace approximately 600 feet of deteriorated sewer line along Cando Place. Cost= \$162,000
 -Palm Place to Linwood Drive Sewer: Relocate approximately 1,300 feet of deteriorated sewer lines on Palm Place along new route to Brookdale Plaza. Cost= \$363,000

Justification

This sewer replacement project is an ongoing program consisting of the replacement, repair, or reconstruction of deteriorating sewer lines. The repair or replacement of deteriorated lines is intended to improve the City's overall wastewater collection system. This program is in line with the type of preventative maintenance the State expects and may decrease the likelihood of enforcement actions should the City experience sewer overflows.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design				107,000				107,000
Construction					845,000			845,000
Contingency					84,000			84,000
Construction Administration					52,000			52,000
Total				107,000	981,000			1,088,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Revenue Bonds					929,000			929,000
Sewer Fund				107,000	52,000			159,000
Total				107,000	981,000			1,088,000

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: Further deterioration of the City's wastewater system could result in sewer overflows and enforcement actions/fines from the State.

These improvements should also reduce the number of service calls and repairs Lines Maintenance is responsible for associated with antiquated pipe and materials.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service-Revenue Bonds					37,008	74,016	1,369,296	1,480,320
Total					37,008	74,016	1,369,296	1,480,320

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SR-14-001
Project Name Country Club Villas Pump Station



Type Rehabilitation **Department** Public Services
Useful Life 30 **Contact** Wynne Ray
Category Sewer - Lift Station **Priority** H High Priority
Part of Master Plan N **Growth Related** N
Externally Mandated N **Service Related** Y
Status Active

Description

This project is a rehabilitation of an existing duplex station that was constructed in 1978. Work includes replacement of existing suction lift pumps with submersible pumps, bypass pumping, demolition of the existing structure, rehabilitation and conversion of existing wet well to accommodate the new pumps, installation of a new control panel, installation of a flow meter vault, flow meter with a totalizer and electrical upgrades. Estimated Cost \$240,000

This project was included in the FY11 CIP (SF1107) contingent upon the receipt of American Recovery and Reinvestment Act funds. However, the City did not receive this grant.

Justification

Country Club Villas Lift Station has exceeded its useful life. This station does not operate as designed and continues to have problems with pumps clogging and losing prime. This lack of efficiency has resulted directly in sanitary sewer overflows.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Construction				190,000				190,000
Contingency				27,000				27,000
Construction Administration				23,000				23,000
Total				240,000				240,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Sewer Fund				240,000				240,000
Total				240,000				240,000

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: Maintenance cost will continue to increase. Continued deterioration could cause catastrophic failure of the station resulting in sanitary sewer overflows and loss of service to area residents and businesses. A deteriorating Cantex style station also increases the likelihood for costs associated with injured maintenance personnel.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SR-14-004
Project Name Georgetown Pump Station Rehabilitation



Type Rehabilitation
Useful Life 30
Category Sewer - Lift Station
Part of Master Plan N
Externally Mandated N
Department Public Services
Contact Wynne Ray
Priority H High Priority
Growth Related N
Service Related Y
Status Active

Description

This project is a rehabilitation of an existing triplex station that was constructed in 1988. Work includes replacement, and upgrade, of existing 2 HP submersible pumps with 5 HP pumps, bypass pumping, rehabilitation and conversion of existing wet well to accommodate the new pumps, installation of a new control panel, installation of a flow meter vault, flow meter with a totalizer and electrical upgrades. Estimated Cost \$173,000

This project was included in the FY11 CIP (SF1107) contingent upon the receipt of American Recovery and Reinvestment Act funds. However, the City did not receive this grant.

Justification

Although the Georgetown station is newer, it does not operate effectively or efficiently. The existing pumps are undersized causing the station to frequently clog which results in ongoing excessive maintenance.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Construction				146,000				146,000
Contingency				15,000				15,000
Construction Administration				12,000				12,000
Total				173,000				173,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Sewer Fund				173,000				173,000
Total				173,000				173,000

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: Maintenance cost will continue to increase. Continued deterioration could cause catastrophic failure of the station resulting in sanitary sewer overflows and loss of service to area residents and businesses. A deteriorating Cantex style station also increases the likelihood for costs associated with injured maintenance personnel.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # ST-12 GF1204
Project Name FY12 Street Reclamation



Type Reclamation	Department Public Services
Useful Life 20	Contact Wally Hansen
Category Streets	Priority C Committed To
Part of Master Plan Y	Growth Related N
Externally Mandated N	Service Related Y
	Status Active

Description

- Kevin Court: Rehabilitate approximately 325 feet of Kevin Court from Branchwood Drive to the end of the cul-de-sac. Cost= \$40,000
- Northwoods Drive Section I: Rehabilitate approximately 1,100 feet Northwoods Drive from Foscue Drive to Gloria Court. Cost= \$154,000
- Northwoods Drive Section II: Rehabilitate approximately 1,600 feet of Northwoods Drive from Gloria Court to Ramona Avenue. Cost= \$245,000
- Sandy Drive: Rehabilitate approximately 2,250 feet of Sandy Drive from Gum Branch Road to Lakewood Drive. Cost= \$181,000
- Memorial Drive: Rehabilitate approximately 900 feet of Memorial Drive from Western Boulevard to Memorial Court. Cost= \$134,000
- Davis Street: Rehabilitate approximately 300 feet of Davis Street from East Doris Avenue to East Saltwood Place. Cost= \$25,000

Justification

The street rehabilitation program is intended to improve the street structure, improve ride quality and extend the useful life of the street in order to defer more costly street reconstruction. In August 2006 a Pavement Rating Survey analyzing the condition of all City streets was completed by US Infrastructure. This survey rated street segments by observing eight common pavement surface distresses and their corresponding severity levels. Staff has utilized the information gathered in this report to select streets for rehabilitation based on their age, the condition of the street, and the condition of any underlying infrastructure.

The FY11 Street Reclamation project is expected to be bid with an alternate of adding the FY12 Streets to this project. If the bid prices are within budget, staff will request Council move all of the street reclamation projects up by one year.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design		34,000						34,000
Construction		657,000						657,000
Contingency		34,000						34,000
Construction Administration		54,000						54,000
Total		779,000						779,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Powell Bill		779,000						779,000
Total		779,000						779,000

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: The City's roadway system will continue to deteriorate resulting in potholing, increased service calls, an inconvenience to the motoring public, and increased construction cost when the roadway is rehabilitated.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # ST-13-000
Project Name FY13 Street Reclamation



Type Reclamation
Useful Life 20
Category Streets
Part of Master Plan Y
Externally Mandated N

Department Public Services
Contact Wally Hansen
Priority C Committed To
Growth Related N
Service Related Y
Status Active

Description

Shadowridge Road: Rehabilitate approximately 5,100 feet of Shadowridge Road from Corbin Road to Silver Leaf Drive. Cost= \$789,000

Justification

The street rehabilitation program is intended to improve the street structure, improve ride quality and extend the useful life of the street in order to defer more costly street reconstruction. In August 2006 a Pavement Rating Survey analyzing the condition of all City streets was completed by US Infrastructure. This survey rated street segments by observing eight common pavement surface distresses and their corresponding severity levels. Staff has utilized the information gathered in this report to select streets for rehabilitation based on their age, the condition of the street, and the condition of any underlying infrastructure.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design			33,000					33,000
Construction			669,000					669,000
Contingency			33,000					33,000
Construction Administration			54,000					54,000
Total			789,000					789,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Powell Bill			789,000					789,000
Total			789,000					789,000

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: The City's roadway system will continue to deteriorate resulting in potholing, increased service calls, an inconvenience to the motoring public, and increased construction cost when the roadway is rehabilitated.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # ST-14-000
Project Name FY14 Street Reclamation



Type Reclamation	Department Public Services
Useful Life 20	Contact Wally Hansen
Category Streets	Priority C Committed To
Part of Master Plan Y	Growth Related N
Externally Mandated N	Service Related Y
	Status Active

Description

- Winchester Road Section I: Rehabilitate approximately 1,100 feet of Winchester Road from Thomas Drive to Allen Place. Cost = \$145,000
- Winchester Road Section II: Rehabilitate approximately 600 feet of Winchester Road from Oakwood Avenue to Western Boulevard. Cost = \$75,000
- Sharon Way: Rehabilitate approximately 650 feet of Sharon Way from Branchwood Drive to the end of the cul-de-sac. Cost= \$85,000
- Royce Avenue: Rehabilitate approximately 650 feet of Royce Avenue from Clifton Road to Northwoods Drive. Cost = \$87,000
- Onslow Drive: Resurface approximately 800 feet of Onslow Drive from New River Drive to Bryan Street. Cost = \$117,000
- York Court: Rehabilitate approximately 250 feet of York Court from York Street to the end of the cul-de-sac. Cost = \$27,000
- York Street: Rehabilitate approximately 2,970 feet of York Street from New River Drive to Onslow Drive. Cost = \$128,000

Justification

The street rehabilitation program is intended to improve the street structure, improve ride quality and extend the useful life of the street in order to defer more costly street reconstruction. In August 2006 a Pavement Rating Survey analyzing the condition of all City streets was completed by US Infrastructure. This survey rated street segments by observing eight common pavement surface distresses and their corresponding severity levels. Staff has utilized the information gathered in this report to select streets for rehabilitation based on their age, the condition of the street, and the condition of any underlying infrastructure.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design				28,000				28,000
Construction				562,000				562,000
Contingency				28,000				28,000
Construction Administration				46,000				46,000
Total				664,000				664,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Powell Bill				664,000				664,000
Total				664,000				664,000

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: The City's roadway system will continue to deteriorate resulting in potholing, increased service calls, an inconvenience to the motoring public, and increased construction cost when the roadway is rehabilitated.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # ST-15-000
Project Name FY15 Street Reclamation



Type Reclamation	Department Public Services
Useful Life 20	Contact Wally Hansen
Category Streets	Priority C Committed To
Part of Master Plan Y	Growth Related N
Externally Mandated N	Service Related Y
	Status Active

Description

-Cando Place: Resurface approximately 1,000 feet Cando Place from Sioux Drive to the cul-de-sac. Cost = \$124,000
 -Pine Cone Lane: Rehabilitate Pine Cone Lane from Dennis Road to the end of the cul-de-sacs. The pavement rating condition of Pine Cone Lane is 29 out of 100. Cost = \$149,000
 -Sioux Drive: Rehabilitate Sioux Drive from Smallwood Drive to Gardenview. The pavement rating condition for this section of Sioux Drive is 29 out of 100. Cost = \$65,000
 -Tweed Drive: Rehabilitate Tweed Drive from Northwoods Drive to Ramona Avenue. The pavement rating condition for Tweed Drive is 31 out of 100. Cost = \$247,000
 -David Place: Rehabilitate David Place from Decatur Road to Clifton Road. The pavement rating condition for this section of David Place is 32 out of 100. Cost = \$121,000
 -Indian Drive: Rehabilitate Indian Drive from Cardinal Drive to Gum Branch Road. The pavement rating condition for this section of David Place is 32 out of 100. Cost = \$160,000
 -Campbell Place: Resurface approximately 350 feet Campbell Place from Parkwood Drive to the cul-de-sac. Cost = \$52,000

Justification

The street rehabilitation program is intended to improve the street structure, improve ride quality and extend the useful life of the street in order to defer more costly street reconstruction. In August 2006 a Pavement Rating Survey analyzing the condition of all City streets was completed by US Infrastructure. This survey rated street segments by observing eight common pavement surface distresses and their corresponding severity levels. Staff has utilized the information gathered in this report to select streets for rehabilitation based on their age, the condition of the street, and the condition of any underlying infrastructure.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design					40,000			40,000
Construction					802,000			802,000
Contingency					40,000			40,000
Construction Administration					36,000			36,000
Total					918,000			918,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Powell Bill					918,000			918,000
Total					918,000			918,000

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: The City's roadway system will continue to deteriorate resulting in potholing, increased service calls, an inconvenience to the motoring public, and increased construction cost when the roadway is rehabilitated.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # ST-16-000
Project Name FY16 Street Reclamation

Type Reclamation	Department Public Services
Useful Life 20	Contact Wally Hansen
Category Streets	Priority C Committed To
Part of Master Plan Y	Growth Related N
Externally Mandated N	Service Related Y
	Status Active

Description

-Linwood Drive Section I: Resurface approximately 1,000 feet from Brookdale Plaza to Dennis Road. The pavement rating condition of Linwood Drive is 8 out of 100. Cost = \$139,000
 -Linwood Drive Section II: Resurface approximately 803 feet from Dennis Road to Cardinal Road. The pavement rating condition of Linwood Drive is 33 out of 100. Cost = \$110,000
 -E. Bayshore Boulevard: Resurface approximately 3,750 feet from Westminister Drive to Stratford Drive. The pavement rating condition of E. Bayshore Boulevard is 26 out of 100. Cost = \$175,000
 -Deborah Place: Resurface approximately 730 feet from Clyde Drive to Vernon Drive. The pavement rating condition of Deborah Place is 33 out of 100. Cost = \$98,000
 -Hendrick Ave: Resurface approximately 1,100 feet from Smallwood Drive to Northwoods Drive. The pavement rating condition of Hendrick Ave is 33 out of 100. Cost = \$176,000
 -King Richard Ct: Resurface approximately 500 feet from Celt Drive to Robinhood Drive. The pavement rating condition of King Richard Court is 33 out of 100. Cost = \$72,000
 -Vernon Drive: Resurface approximately 900 feet from Barn Street to Clyde Drive. The pavement rating condition of Vernon Drive is 33 out of 100. Cost = \$111,000

Justification

The street rehabilitation program is intended to improve the street structure, improve ride quality and extend the useful life of the street in order to defer more costly street reconstruction. In August 2006 a Pavement Rating Survey analyzing the condition of all City streets was completed by US Infrastructure. This survey rated street segments by observing eight common pavement surface distresses and their corresponding severity levels. Staff has utilized the information gathered in this report to select streets for rehabilitation based on their age, the condition of the street, and the condition of any underlying infrastructure.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design						38,000		38,000
Construction						768,000		768,000
Contingency						38,000		38,000
Construction Administration						37,000		37,000
Total						881,000		881,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Powell Bill						881,000		881,000
Total						881,000		881,000

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: The City's roadway system will continue to deteriorate resulting in potholing, increased service calls, an inconvenience to the motoring public, and increased construction cost when the roadway is rehabilitated.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SW-08 SW0601
Project Name Parkwood Area Stormwater Project



Type Rehabilitation **Department** Public Services
Useful Life 20 **Contact** Wally Hansen
Category Stormwater-Drainage Improve **Priority** C Committed To
Part of Master Plan N **Growth Related** Y
Externally Mandated Y **Service Related** Y
Status Active

Description

The Parkwood Area Stormwater project consists of rehabilitating and relocating drainage facilities from behind Jacksonville High School to Fawn Trail. This area is prone to localized flooding even during mild rain events.

This project also includes work at the Marlo Circle and Northwoods Drive intersection and upsizing the culvert under the driveway leading to the Parkwood Soccer fields.

Update: Project has been bid and awarded with construction beginning in January 2011.

Justification

The Parkwood Area Project is currently number two on the prioritized list of the stormwater problem areas that need to be addressed in the City. This area consists of a 64-acre watershed that is primarily built-out. Throughout this watershed, rain and storm events will typically overflow channel banks causing backyard and local street flooding.

The Clean Water Act established rules/regulations which resulted in a requirement for a NPDES Phase II storm water permit. In 2006 the City established a Stormwater Utility Enterprise Fund to help offset the costs associated with the requirements of these regulations. This fund includes a capital component to fund stormwater related projects within the City.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design	461,467							461,467
Construction	3,255,000	235,000						3,490,000
Contingency	270,000	31,000						301,000
Construction Administration	17,000	3,000						20,000
Total	4,003,467	269,000						4,272,467

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Build America Bonds	3,987,697							3,987,697
General Fund	66,000							66,000
Stormwater Fund		218,770						218,770
Total	4,053,697	218,770						4,272,467

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: The Parkwood Area will continue to experience flooding during storm events.

-Build America Bonds financed for 10 years at 3.38%.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service -Stormwater Fun	243,304	486,608	486,608	486,608	486,608	486,608	2,189,736	4,866,080
Total	243,304	486,608	486,608	486,608	486,608	486,608	2,189,736	4,866,080

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
CWSRF-Stormwater	373,000							373,000
Stormwater Fund	120,000							120,000
Total	493,000							493,000

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: The Brynn Marr Area will continue to experience flooding during storm events resulting in additional private property loss and traffic related issues.

-Clean Water State Revolving Fund loan financed for 20 years at 0%.

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service -Stormwater Fun	15,542	18,650	18,650	18,650	18,650	18,650	264,208	373,000
Total	15,542	18,650	18,650	18,650	18,650	18,650	264,208	373,000

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project #	SW-11-SW1102
Project Name	Country Club/Sandy Run Stormwater Project

Type	Rehabilitation	Department	Public Services
Useful Life	20	Contact	Pat Donovan-Potts
Category	Stormwater-Water Quality	Priority	C Committed To
Part of Master Plan	N	Growth Related	Y
Externally Mandated	N	Service Related	Y
		Status	Active

Description

The Country Club/Sandy Run Stormwater Project addresses complaints from long-time residents who are experiencing drainage problems associated with the widening of Country Club Road by DOT, a throughfare which bisects the established neighborhood. The linear ditch and grassy swale which ran parallel to Country Club Road was replaced by catch basins and pipe. Due to topography, the runoff does not have access to many of the installed catch basins. This has resulted in the runoff from approximately 10 acres of area, associated with the road, collecting on the landowners property.

CIP Amendment 11/03/2010: On October 1, 2010 the City was awarded \$233,300 from the Clean Water State Revolving Fund (SRF) for the Country Club/Sandy Run Area Stormwater Project, which is a new project and is not included in the FY2011-2015 CIP. This amendment establishes this project and includes the construction of six or more linear stormwater wetlands and various rain gardens which will be placed parallel to County Club Road for the treatment of stormwater runoff and to minimize flooding from the highway on landowner's property.

Justification

At the time Country Club Road was widened, the grassy swale and ditch were removed and replaced with a pipe and catch basins. These catch basins were not placed in the proper locations and as a result the residents of this area experience flooding during times of rain. This project will help alleviate this flooding.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design	37,000							37,000
Construction		160,300						160,300
Contingency	16,000							16,000
Construction Administration	9,000							9,000
Permitting	1,000							1,000
Land Surveying	10,000							10,000
Total	73,000	160,300						233,300

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
CWSRF-Stormwater	233,300							233,300
Total	233,300							233,300

Budget Impact/Other

-Clean Water State Revolving Fund loan financed for 20 years at 0%.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service -Stormwater Fun		3,888	11,665	11,665	11,665	11,665	171,087	221,635
Total		3,888	11,665	11,665	11,665	11,665	171,087	221,635

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SW-12 SW1101
Project Name Downtown Central Stormwater Phase I

Type New Construction	Department Public Services
Useful Life 30	Contact G. Hargett/P. Donovan-Potts
Category Stormwater-Water Quality	Priority C Committed To
Part of Master Plan Y	Growth Related Y
Externally Mandated N	Service Related N
	Status Active

Description

This is for the development of a project that would create a centralized treatment system for stormwater in the downtown area. The system would allow more dense development and infill of existing sites within the downtown area.

Initial planning and design costs are estimated at \$10,000 and are proposed to be funded through the Stormwater/Water Quality operating budget.

CIP Amendment 11/03/2010: On October 1, 2010 the City was awarded \$850,910 from the Clean Water State Revolving Fund (SRF) for the Stormwater Downtown Central Treatment Project (Wilson Bay). Project construction, which was slated to begin in FY12, will be moved to FY11 with this amendment. This amendment also modifies the funding source for the project, which was originally scheduled to be funded with installment purchase debt totaling \$1,000,000 and unidentified grant funds totaling \$3,000,000. The SRF loan funding will be identified as such and the indentified grant funding reduced to \$2,149,090. This funding covers the construction of Stormwater wetlands on nine parcels of land owned by the City of Jacksonville in the Downtown area along Wardola and Loyola Drive, which will treat drainage from 41 acres of development along Court Street corridor and is just a portion of the overall project scope.

Update: This project has been split into two Phases to better define the specific elements required for each Project. Grant funds have been received for Phase I which allows staff to proceed with these necessary improvements.

Justification

This project allows for more dense development in the downtown area and allows for infill development.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design	96,000							96,000
Construction		50,000	637,310					687,310
Contingency		20,000						20,000
Construction Administration	33,600							33,600
Permitting	5,000							5,000
Land Surveying	9,000							9,000
Total	143,600	70,000	637,310					850,910

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
CWSRF-Stormwater	850,910							850,910
Total	850,910							850,910

Budget Impact/Other

Initially the project will require investigation by the staff, and work with outside agencies in the development of a stormwater credit program. If fully built out, the project would require staff resources for upkeep, but the stormwater credit program is hoped to provide income to offset that requirement.

-Clean Water State Revolving Fund loan financed for 20 years at 0%.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service -Stormwater Fun	35,456	42,546	42,546	42,546	42,546	42,546	666,554	914,740
Total	35,456	42,546	42,546	42,546	42,546	42,546	666,554	914,740

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SW-12-005
Project Name Brynn Marr Area Storm Drainage Project



Type Improvement **Department** Public Services
Useful Life 20 **Contact** Gregory K. Meshaw
Category Stormwater-Drainage Improve **Priority** C Committed To
Part of Master Plan N **Growth Related** Y
Externally Mandated Y **Service Related** Y
Status Active

Description

The Brynn Marr Area Stormwater Project Phase II consists of improving open drainage channels, piped facilities, and areas to retain stormwater runoff. This includes stormwater facilities in the areas of Brynn Marr Road, Liberty Drive, Western Boulevard and NC 24. Flooding in this area has affected both personal property and arterial roadways causing significant travel delays on both Western and NC 24.

Based on the initial study, the culvert running under Western Boulevard and NC 24 needs attention to make the project successful. Additional coordination with NCDOT will be needed to complete this project. Staff will look into the possibility of cost sharing with NCDOT.

This project was originally combined with the Brynn Marr Area Stormwater BMP Project but has been separated due to funding source and to better define the unique elements required for each project. Both projects have previously been included in prior CIPs.

Justification

The Brynn Marr Area Stormwater Project is currently number one on the prioritized list of the stormwater problem areas that need to be addressed in the City. This area consists of a 148-acre watershed that is primarily built-out. Throughout this watershed, rain and storm events will typically overflow channel banks causing backyard, local street, and arterial roadway flooding.

The Clean Water Act established rules/regulations which resulted in a requirement for a NPDES Phase II stormwater permit. In 2006 the City established a Stormwater Utility Enterprise Fund to help offset the costs associated with the requirements of these regulations. This fund includes a capital improvement component to fund stormwater related projects within the City.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design	50,000				50,000			100,000
Construction					412,000	412,136		824,136
Contingency					60,000	60,000		120,000
Construction Administration					40,000	40,000		80,000
Total	50,000				562,000	512,136		1,124,136

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Installment Purchase-Stormwa					994,136			994,136
Stormwater Fund	50,000				80,000			130,000
Total	50,000				1,074,136			1,124,136

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: The Brynn Marr Area will continue to experience flooding during storm events resulting in additional private property loss and traffic related issues.

Stormwater Installment Purchase financed for 20 yrs at 5.0%

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service -Stormwater Fun					65,336	78,404	1,424,339	1,568,079
Total					65,336	78,404	1,424,339	1,568,079

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SW-13-001
Project Name Zack Circle Stormwater Project



Type Expansion
Useful Life 20
Category Stormwater-Drainage Improve
Part of Master Plan N
Externally Mandated Y

Department Public Services
Contact Wally Hansen
Priority M Medium Priority
Growth Related Y
Service Related Y
Status Active

Description

The Zack Circle Stormwater Project includes the installation of additional storm drainage in order to help eliminate excess water in a neighborhood flood zone.

Update: Design and construction delayed one year to evaluate results of minor stormwater improvements made in 2010. If minor improvements were successful, this project could be postponed or cancelled.

Justification

Zack Circle is currently the number three project on the prioritized list of the stormwater problem areas in the City.

The Clean Water Act established rules/regulations which resulted in a requirement for a NPDES Phase II stormwater permit. In 2006 the City established a Stormwater Utility Enterprise Fund to help offset the costs associated with the requirements of these regulations. This fund includes a capital improvement component to fund stormwater related projects within the City.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design			36,000					36,000
Construction				243,000				243,000
Contingency				24,000				24,000
Construction Administration				19,000				19,000
Total			36,000	286,000				322,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Installment Purchase-Stormwa				267,000				267,000
Stormwater Fund			36,000	19,000				55,000
Total			36,000	286,000				322,000

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: Zack Circle will continue to experience flooding during storm events possibly resulting in private property loss and traffic related issues.

-Stormwater installment purchase debt financed for 20 years at 5.0%.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service -Stormwater Fun				17,548	21,057	21,057	392,979	452,641
Total				17,548	21,057	21,057	392,979	452,641

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # SW-13-002
Project Name Downtown Central Stormwater Treatment Phase II

Type New Construction	Department Public Services
Useful Life 30	Contact G. Hargett/P. Donovan-Potts
Category Stormwater-Water Quality	Priority H High Priority
Part of Master Plan Y	Growth Related Y
Externally Mandated N	Service Related N
	Status Active

Description

This Phase would consist of augmenting the Stormwater Downtown Central Treatment Phase I by putting in additional stormwater collection system to connect to Phase I in the Newberry-Ford-Popular Streets neighborhood. If a collection system is needed, the project would investigate the existing size of the stormwater collection system as well as its direction of flow to include upgrading pipes and more BMPs.

This system would allow more dense development and infill of existing sites within the downtown area. No specific plans are developed at this time, as this project would investigate, plan, then pursue grant and other funding opportunities for a program that could be financed through fees from developers and users of the central treatment system.

Update: This project was originally part of the Stormwater Downtown Central Treatment Phase I Project. However, it has been determined that this project is contingent upon Phase I completion and a re-assessment of the stormwater needs in this corridor.

Justification

This project allows for more dense development in the downtown area and allows for infill development.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design			150,000					150,000
Construction				1,800,000	1,000,000			2,800,000
Contingency			50,000					50,000
Total			200,000	1,800,000	1,000,000			3,000,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Grants				2,000,000				2,000,000
Installment Purchase-Stormwa				800,000				800,000
Stormwater Fund			200,000					200,000
Total			200,000	2,800,000				3,000,000

Budget Impact/Other

Initially the project will require investigation by the staff, and work with outside agencies in the development of a stormwater credit program. If fully built out, the project would require staff resources for upkeep, but the stormwater credit program is hoped to provide income to offset that requirement.

-Stormwater installment purchase debt financed for 20 years at 5.0%.
 -Clean Water State Revolving Fund loan financed for 20 years at 0%.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service -Stormwater Fun				52,577	63,093	63,093	1,083,096	1,261,859
Total				52,577	63,093	63,093	1,083,096	1,261,859

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project #	SW-14-001
Project Name	Pine Valley/Country Club Area Stormwater Project

Type	Expansion	Department	Public Services
Useful Life	20	Contact	Wally Hansen
Category	Stormwater-Drainage Improve	Priority	M Medium Priority
Part of Master Plan	N	Growth Related	Y
Externally Mandated	Y	Service Related	Y
		Status	Active

Description

The Pine Valley/Country Club Stormwater Project is intended to improve the existing drainage system by increasing the capacity of the existing drainage system. This area experiences significant erosion impacting City infrastructure (primarily sidewalks) as well as localized backyard flooding during storm events.

Justification

The Pine Valley/Country Club Project is currently number four on the prioritized list of the problem areas in the City.

The Clean Water Act established rules/regulations which resulted in a requirement for a NPDES Phase II storm water permit. In 2006 the City has established a Stormwater Utility Enterprise Fund to help offset the costs associated with the requirements of these regulations. This fund includes a capital improvement component to fund stormwater related projects within the City.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design				47,000				47,000
Construction					316,000			316,000
Contingency					32,000			32,000
Construction Administration					25,000			25,000
Total				47,000	373,000			420,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Installment Purchase-Stormwa					348,000			348,000
Stormwater Fund				47,000	25,000			72,000
Total				47,000	373,000			420,000

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: The Pine Valley/Country Club Hills will continue to experience flooding during storm events possibly resulting in private property loss, traffic related issues, and erosion related problems.

-Stormwater installment purchase debt financed for 20 years at 5.0%

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service -Stormwater Fun					22,871	27,445	498,584	548,900
Total					22,871	27,445	498,584	548,900

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # WS-13-002
Project Name Jean Circle Water and Sewer Rehabilitation



Type Replacement
Useful Life 30
Category Combined Infrastructure
Part of Master Plan Y
Externally Mandated N
Department Public Services
Contact Wally Hansen
Priority C Committed To
Growth Related N
Service Related Y
Status Active

Description

-Jean Circle: Replace approximately 1,400 feet of deteriorated water and sewer lines along Jean Circle. This project will also include the rehabilitation of Jean Circle (approximately 1,100 feet) in conjunction with the replacement of the water and sewer lines.

Justification

This is a continuing program of the replacement, repair, or reconstruction of older water and sewer lines. The replacement of deteriorated water and sewer lines is intended to improve the City's water distribution and wastewater collection systems. The water side of this program is intended to replace existing water lines and/or provide new lines necessary to provide adequate fire protection and customer service. The sewer portion of this program is in-line with the type of preventative maintenance the State expects and may decrease the likelihood of enforcement actions should the City experience sewer overflows.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design			44,550					44,550
Construction				310,000				310,000
Contingency				32,000				32,000
Construction Administration				20,000				20,000
Total			44,550	362,000				406,550

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Revenue Bonds			342,000					342,000
Water and Sewer Fund			44,550	20,000				64,550
Total			386,550	20,000				406,550

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: Further deterioration of the City's wastewater system could result in sewer overflows and enforcement actions/fines from the State. Delay of water distribution projects may result in more frequent water main breaks resulting in water loss and/or loss of water pressure for fire protection apparatus.

These improvements should also reduce the number of service calls and repairs associated with antiquated pipe and materials for which Lines Maintenance is responsible.

-Revenue bonds financed for 20 years at 5.0%

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service-Revenue Bonds			13,624	27,248	27,248	27,248	449,592	544,960
Total			13,624	27,248	27,248	27,248	449,592	544,960

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # WS-15-000
Project Name Park Lane/Stratford Water and Sewer Rehabilitation



Type Replacement
Useful Life 30
Category Combined Infrastructure
Part of Master Plan Y
Externally Mandated N

Department Public Services
Contact Wally Hansen
Priority C Committed To
Growth Related N
Service Related Y
Status Active

Description

-Park Lane: Replace approximately 1100 feet of deteriorated water and sewer lines along Park Lane. Cost = \$425,000
 -Stratford Road: Replace 2100 feet of deteriorated water and sewer lines along Stratford Road. Cost = \$593,000

Justification

This is a continuing program of the replacement, repair, or reconstruction of older water and sewer lines. The replacement of deteriorated water and sewer lines are intended to improve the City's water distribution and wastewater collection systems. The water side of this program is intended to replace existing water lines and/or provide new lines necessary to provide adequate fire protection and customer service. The sewer portion of this program is in-line with the type of preventative maintenance that the State expects and may decrease the likelihood of enforcement actions should the City experience sewer overflows.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design					140,000			140,000
Construction							730,000	730,000
Contingency							83,000	83,000
Construction Administration							65,000	65,000
Total					140,000		878,000	1,018,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Revenue Bonds							813,000	813,000
Water and Sewer Fund					140,000		65,000	205,000
Total					140,000		878,000	1,018,000

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: Further deterioration of the City's wastewater system could result in sewer overflows and enforcement actions/fines from the State. Delay of water distribution projects may result in more frequent water main breaks resulting in water loss and/or loss of water pressure for fire protection apparatus.

These improvements should also reduce the number of service calls and repairs Lines Maintenance is responsible for associated with antiquated pipe and materials.

-Revenue bonds financed for 20 years at 5.0%

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service - Water and Sew							1,295,480	1,295,480
Total							1,295,480	1,295,480

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # WT-04 WF0400
Project Name Water Supply and Treatment Facility



Type New Construction
Useful Life 20
Category Water - Treatment
Part of Master Plan N
Externally Mandated Y

Department Public Services
Contact Raymond Holder
Priority C Committed To
Growth Related Y
Service Related Y
Status Active

Description

This project consists of the construction of a new nanofiltration water treatment plant with an interim capacity of 4.0 million gallons per day (mgd) with ultimate capacity of 8.0 mgd. Source water for the new facility will be drawn from the Castle Hayne Aquifer by a series of 18 (8 existing and 10 new) production wells and transferred to the new treatment facility through approximately 100,000 linear feet of new water transmission mains.

The new water supply system will operate in conjunction with the existing Black Creek system.

Update: The Water Treatment Plant, 16 wells, and approximately 85% of the new water Transmission Mains are complete. The remaining transmission mains are currently under design and staff is negotiating with property owners for the remaining 2 wells.

Justification

In accordance with the State's 1999 Central Coastal Plain Capacity Use Rule, the City must reduce its withdrawal from the Black Creek Aquifer by 25% (1 mgd) by 2008, another 25% (1 mgd) by 2013, and a final 25% by 2018. This withdrawal requires the use of a lower quality aquifer for supply necessitating the treatment of the raw water.

Update: The increase in estimated cost for this project results from the Council decision to upgrade the majority of the components of the water treatment plant to 8 mgd (\$2,838,000) and the decision to relocate the plant to the City's Business Park (\$2,922,326). Over time both of these changes should pay for themselves.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design	3,969,748							3,969,748
Construction	39,500,600	2,504,000						42,004,600
Equipment/Furnishings	336,000							336,000
Contingency	1,400,000	100,000						1,500,000
Total	45,206,348	2,604,000						47,810,348

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Capital Reserve Fund	16,990							16,990
Installment Purchase	1,992,152							1,992,152
Revenue Bonds	5,515,439							5,515,439
State RLF - Water	39,995,263							39,995,263
Stormwater Fund	290,504							290,504
Total	47,810,348							47,810,348

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: If this project is delayed or cancelled, the City will not meet the dates set forth in the 1999 CCPCU Rule mandating withdrawal from the Black Creek Aquifer resulting in penalties and possible fines from the State.

OPERATIONAL: New staff needed to operate the water plant consists of: 3 Operator I's, 1 Operator II, 1 Maintenance Mechanic, and 1 Chemist. One additional ¾ ton utility vehicle and cell phone will be needed to support plant operations.

The Lines Maintenance division will be responsible for the additional pipe installed as a result of this project.

Operating cost at plant completion are estimated at \$1,123,000. Estimated costs for construction and operating were developed by McKim &

Friday, July 08, 2011

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Creed, Inc.

Revenue Bonds for 20 years at 3.97% - \$5,515,439

SRF for 20 years at 2.1% - \$39,995,263

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Capital Outlay	25,000							25,000
Debt Service	8,393,007	2,713,679	2,671,684	2,629,689	2,587,694	5,049,403	24,769,072	48,814,228
Debt Service-Revenue Bonds	204,106	408,212	408,212	408,212	408,212	408,212	5,510,862	7,756,028
Operating Expense	2,696,455	944,115	972,439	1,001,612	1,031,660	1,134,826		7,781,107
Personnel	803,476	296,436	305,328	314,489	323,923	356,315		2,399,967
Total	12,122,044	4,362,442	4,357,663	4,354,002	4,351,489	6,948,756	30,279,934	66,776,330

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # WT-10 WF1001
Project Name Water System Improvements Phase II



Type New Construction
Useful Life 30
Category Water - Wells
Part of Master Plan Y
Externally Mandated Y

Department Public Services
Contact Wally Hansen
Priority C Committed To
Growth Related Y
Service Related Y
Status Active

Description

This project includes existing water system improvements, upgrades to the existing SCADA system, and new wells (including transmission mains) to supply water to the Water Treatment Plant. Individual components of this project consist of:

- 1) Gum Branch Central Pump Station Upgrade - Work includes replacement of three existing pumps with new vertical turbine pumps, installation of new variable frequency drives, and replacement of all existing valves, piping, and appurtenances.
- 2) Groundwater Wells, Wellhouses, and Sitework - This portion of the project involves work leading to full construction of four new gravel-packed groundwater supply wells in the Castle Hayne aquifer.
- 3) Raw Water Transmission Mains - Includes the installation of approximately 6,100 feet of 24-inch PVC pipe and approximately 5,000 feet of 6-inch PVC pipe for raw water supply, as well as connections at each of the four new production well sites and all associated appurtenances.
- 4) Finish Water Mains - This portion of the project is the result of unanticipated extension of a finished water main near Western and Gum Branch across a vacant parcel of land. It includes installing approximately 1,200 feet of 12-inch potable water main, connections to both the City's existing high and low pressure distribution systems, installation of check valves, and all associated appurtenances.

Update: This project is currently under construction. An increase in the project budget is necessary for cost associated with land and easement acquisition associated with the purchase of the new well sites.

Justification

In accordance with the State's 1999 Central Coastal Plain Capacity Use Rule, the City must reduce its withdrawal from the Black Creek Aquifer by 25% (1 mgd) by 2008, another 25% (1 mgd) by 2013, and a final 25% by 2018. The additional wells will be needed to expand the water treatment plant past the initial 4 mgd.

In expectation of the proposed Federal fiscal stimulus package, the State has contacted staff to discuss the possibility of funding additional water system projects. This project has been packaged to seek additional funding should it become available. If additional funding is not available these components will be separated into separate projects and phased into the Capital Improvement Plan.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design	334,900							334,900
Land/Right of Way	200,000							200,000
Construction	3,068,267	1,022,755						4,091,022
Contingency	306,827	102,275						409,102
Construction Administration	264,000							264,000
Total	4,173,994	1,125,030						5,299,024

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
American Recovery & Reinvest	3,000,000							3,000,000
Revenue Bonds	2,099,024							2,099,024
Water Fund		200,000						200,000
Total	5,099,024	200,000						5,299,024

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: If this project is delayed or cancelled, the City may not meet the dates set forth in the 1999 CCPCU Rule mandating withdrawal from the Black Creek Aquifer resulting in penalties and possible fines from the State. In addition, canceling this

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

project could have a negative impact on the amount of water available for future growth.

OPERATIONAL: This project will create additional wells and transmission mains for the City to maintain.

Revenue bonds financed for 20 years at 3.97% (\$1,857,866)

Revenue bonds financed for 20 yrs at 6.1% (\$241,158)

American Recovery and Reinvestment Act (ARRA) Funding: \$1.5 million of the principal will be forgiven and \$1.5 million will be repaid at 0% interest. (\$3,000,000)

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service - ARRA	62,500	75,000	75,000	75,000	75,000	75,000	1,062,500	1,500,000
Debt Service-Revenue Bonds	74,261	149,932	164,643	149,932	149,932	149,932	2,393,989	3,232,621
Total	136,761	224,932	239,643	224,932	224,932	224,932	3,456,489	4,732,621

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # WT-10 WF1002
Project Name Piney Green and 17 Water Service Area



Type New Construction
Useful Life 20
Category Water - Distribution Lines
Part of Master Plan N
Externally Mandated N

Department Public Services
Contact Wally Hansen
Priority C Committed To
Growth Related Y
Service Related Y
Status Active

Description

This project will examine the existing ONWASA water lines to determine if they provide adequate service and if these lines can be obtained. It will create a loop between two existing City lines at US 17 to Country Club Road. This loop will serve as a part of the "backbone" to serve the Piney Green area.

Update: The planning study for this area is currently underway. Ultimate design and construction of this project will be based on final recommendation and Council approval of the planning report.

Justification

The City has identified this area of Piney Green as a future service area. This project would create the backbone system to provide water service in this area.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Planning/Preliminary Design	75,000							75,000
Engineering/Design		281,300						281,300
Construction			1,950,000					1,950,000
Contingency			200,000					200,000
Construction Administration			148,200					148,200
Total	75,000	281,300	2,298,200					2,654,500

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Revenue Bonds			2,150,000					2,150,000
Water Fund	365,000		139,500					504,500
Total	365,000		2,289,500					2,654,500

Budget Impact/Other

-Revenue bonds financed for 20 years at 5.0%.

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service-Revenue Bonds			85,648	171,268	171,296	171,296	2,826,384	3,425,892
Total			85,648	171,268	171,296	171,296	2,826,384	3,425,892

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # WT-12 WF1201
Project Name Zack Circle & Hargett St Water Line Replacement



Type Replacement
Useful Life 30
Category Water - Distribution Lines
Part of Master Plan Y
Externally Mandated N
Department Public Services
Contact Wally Hansen
Priority C Committed To
Growth Related N
Service Related Y
Status Active

Description

-Zack Circle: Replace deteriorated water lines along the entire loop (approximately 2,600 feet) of Zack Circle. Cost = \$386,000
 -Hargett Street: Replace approximately 7,100 linear feet of deteriorated water lines from Bell Fork Road to Lejeune Boulevard. NCDOT is necessitating the advancement of this replacement prior to the resurfacing project for Hargett Street that will be let in the Spring 2012. Cost = \$842,000

Justification

The replacement of deteriorated water lines is designed to improve the City's water distribution system. This program is intended to replace existing water lines and/or provide new lines as necessary to provide adequate fire protection and customer service.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design		19,180						19,180
Construction		780,000	310,000					1,090,000
Contingency		50,000	31,000					81,000
Construction Administration			12,500					12,500
Total		849,180	353,500					1,202,680

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Revenue Bonds		1,202,680						1,202,680
Total		1,202,680						1,202,680

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: Delay of water distribution projects may result in more frequent water main breaks resulting in water loss and/or loss of water pressure for fire protection apparatus.

These improvements should also reduce the number of service calls and repairs Lines Maintenance is responsible for associated with antiquated pipe and materials.

Revenue bonds financed for 20 years at 5.0%

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service - Water and Sew		47,923	95,846	95,846	95,846	95,846	1,485,613	1,916,920
Total		47,923	95,846	95,846	95,846	95,846	1,485,613	1,916,920

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # WT-14-000
Project Name FY14 Water Line Replacement



Type Replacement
Useful Life 30
Category Water - Distribution Lines
Part of Master Plan Y
Externally Mandated N
Department Public Services
Contact Wally Hansen
Priority C Committed To
Growth Related N
Service Related Y
Status Active

Description

-Hendricks Avenue: This project will replace approximately 400 feet of deteriorated water lines along Hendricks Avenue from Sioux Drive Northwest to end of street. This project will abandon the existing 2" water line in the road and locate a new water line behind the curb. Cost = \$39,000

-Bryan Court: Replace 200 feet of deteriorated water line along Bryan Court. Cost = \$32,000

-Creon Court: Replace 400 feet of deteriorated water line serving Creon Court. Cost = \$78,000

-York Court: Replace the 200 foot deteriorated water line serving York Court. Cost = \$41,000

-Logan Court: Replace 200 feet of deteriorated water line along Logan Court. Cost = \$39,000

-Nelson Court: Replace 200 feet of deteriorated water line along Nelson Court. Cost = \$33,000

Justification

The replacement of deteriorated water lines is designed to improve the City's water distribution system. This program is intended to replace existing water lines and/or provide new lines as necessary to provide adequate fire protection and customer service.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design				31,000				31,000
Construction					195,000			195,000
Contingency					22,000			22,000
Construction Administration					14,000			14,000
Total				31,000	231,000			262,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Revenue Bonds					217,000			217,000
Water Fund				31,000	14,000			45,000
Total				31,000	231,000			262,000

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: Delay of water distribution projects may result in more frequent water main breaks resulting in water loss and/or loss of water pressure for fire protection apparatus.

These improvements should also reduce the number of service calls and repairs Lines Maintenance is responsible for associated with antiquated pipe and materials.

-Revenue bonds financed for 20 years at 5.0%

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service-Revenue Bonds					8,644	17,289	319,846	345,779
Total					8,644	17,289	319,846	345,779

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # WT-16-001
Project Name FY16 Water Line Replacement



Type Replacement
Useful Life 30
Category Water - Distribution Lines
Part of Master Plan Y
Externally Mandated N
Department Public Services
Contact Wally Hansen
Priority C Committed To
Growth Related N
Service Related Y
Status Active

Description

-School Street: Replace 400 feet of deteriorated water line along School Street from Jarman Street to Oak Lane and 700 feet along School Street from Henderson Drive to Elm Street. Cost = \$204,000
 -Thompson Street: Replace approximately 1100 feet of water line along Thompson Street between Marine Boulevard and South Shore Drive. Cost = \$198,000

Justification

The replacement of deteriorated water lines is designed to improve the City's water distribution system. This program is intended to replace existing water lines and/or provide new lines as necessary to provide adequate fire protection and customer service.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design						45,000		45,000
Construction							303,000	303,000
Contingency							30,000	30,000
Construction Administration							24,000	24,000
Total						45,000	357,000	402,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Revenue Bonds							333,000	333,000
Water Fund						45,000	24,000	69,000
Total						45,000	357,000	402,000

Budget Impact/Other

IMPACT IF CANCELLED OR DELAYED: Delay of water distribution projects may result in more frequent water main breaks resulting in water loss and/or loss of water pressure for fire protection apparatus.

These improvements should also reduce the number of service calls and repairs Lines Maintenance is responsible for associated with antiquated pipe and materials.

-Revenue bonds financed for 20 years at 5.0%

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service-Revenue Bonds							530,619	530,619
Total							530,619	530,619

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-08 GF0201
Project Name NC 24 Lejeune Blvd Trail



Type New Construction
Useful Life 30
Category Trails and Greenways
Part of Master Plan N
Externally Mandated Y

Department Recreation and Parks
Contact Mike Wetzel
Priority C Committed To
Growth Related Y
Service Related Y
Status Active

Description

LEJEUNE BOULEVARD GREENWAY/NC 24 CULVERT TRAIL.

This 2.8-mile long greenway consists of a 10-foot wide, off-road trail on the southern side of Lejeune Boulevard, NC 24. The trail was originally intended to connect to the Rails to Trails project at the bridge over NC 24 and provide access to Camp Johnson, Bayshore Estates and the downtown area via City streets and sidewalks, but presently the trail will end at Scales Creek.

Justification

THIS PROJECT IS THE SECOND PRIORITY TRAIL OF THE CITY'S TRAILS, GREENWAYS AND PEDESTRIAN CIRCULATION PLAN ADOPTED BY CITY COUNCIL.

The City retained a consultant to begin work on the following: obtain Right-of-Way, complete environmental documentation, complete and execute a Municipal Agreement with NCDOT, complete Greenway Design and submit for approval to NCDOT, coordinate with MCB Camp Lejeune easement agreement and land donation and obtain Encroachment Agreements.

We have received \$135,000 from Section PL 104 Transportation Planning Grant. It has been used to secure the federally approved consultant. The City is reimbursed for 80% of these expenditures. The local match will be \$27,000 (20%).

This trail and greenway is currently included in the 2007-2013 State Transportation Improvement Program (STIP). Funding in the amount of \$650,000 has been allocated for the construction of this project in Federal Fiscal Year 2009.

The City is obligated to the difference of the total monies required for the CIP and the STIP and Section PL 104 funds.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Planning/Preliminary Design	135,000							135,000
Engineering/Design	100,000							100,000
Construction	71,800	575,000	71,000					717,800
Contingency		40,000	20,700					60,700
Construction Administration	77,600	23,900						101,500
Total	384,400	638,900	91,700					1,115,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Capital Reserve Fund	357,000							357,000
Grants	173,000	520,000	65,000					758,000
Total	530,000	520,000	65,000					1,115,000

Budget Impact/Other

IMPACT IF DELAYED OR CANCELLED: The Lejeune Blvd Greenway/NC 24 Culvert Trail is the second leg of the current pedestrian circulation plan. If the development of this trail is delayed, it will likely escalate in cost significantly by the time it is constructed. The Rails to Trails project saw costs more than triple from the time it was proposed to the time the project was let for bid.

\$650,000 in grant funding provided by NCDOT for construction.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Capital Outlay		10,000						10,000
Personnel			37,000	38,110	39,253			114,363
Total		10,000	37,000	38,110	39,253			124,363

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-08 GF0802
Project Name Carolina Forest Park



Type New Construction
Useful Life 30
Category Parks
Part of Master Plan N
Externally Mandated N

Department Recreation and Parks
Contact Michael Liquori
Priority C Committed To
Growth Related Y
Service Related Y
Status Active

Description

Carolina Forest Park, located adjacent to the Carolina Forest Elementary School, is 10 acres of undeveloped City land. Plans are to construct a Restroom/Concession Stand, a Picnic Shelter, 2 athletic fields, 4,000 square foot storage building, and a parking area. The site plan, cost estimates, property survey, necessary studies and permits for the project have been completed by an engineer/planning designer.

Justification

Currently there is a shortage of practice and game facilities within the City for youth sports teams (football, lacrosse and other sports). The Jacksonville-Onslow Pop Warner Football Conference, Onslow County Youth Lacrosse Association and other youth sports programs are in desperate need of practice and game facilities. The Recreation and Parks Department will apply for a \$500,000 PARTF Grant to offset some of the costs.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Planning/Preliminary Design	14,785	35,215						50,000
Engineering/Design		50,000						50,000
Construction		550,000	275,000					825,000
Equipment/Furnishings			50,000					50,000
Contingency			82,500					82,500
Construction Administration		24,750	12,375					37,125
Total	14,785	659,965	419,875					1,094,625

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
General Fund	144,625							144,625
Grants		500,000						500,000
Installment Purchase-General		450,000						450,000
Total	144,625	950,000						1,094,625

Budget Impact/Other

IMPACT IF DELAYED OR CANCELLED: Continued shortage of practice and playing facilities for the City's youth athletic teams.
 -Financed for 10 years at 4%

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service		45,409	54,490	54,490	54,490	54,491	281,533	544,903
Personnel				21,600	22,248	54,490		98,338
Total		45,409	54,490	76,090	76,738	108,981	281,533	643,241

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-11 GF1109
Project Name Northeast Creek Park Phase I



Type Rehabilitation **Department** Recreation and Parks
Useful Life **Contact** Michael Liquori
Category Parks **Priority** H High Priority
Part of Master Plan N **Growth Related** Y
Externally Mandated N **Service Related** Y
Status Active

Description

Our proposal is to recommend replacement of the original boat ramp and repair.

Justification

The existing boat ramp does not meet the needs of the boaters using the ramp and has been blamed by some for damage to their boats and/or trailers. Repairs have been made, but they were only temporary. Once the ramp is installed the boating public can once again fully utilize the ramp.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design	3,377	18,123						21,500
Construction		169,650						169,650
Contingency		25,000						25,000
Construction Administration		17,850						17,850
Total	3,377	230,623						234,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Capital Reserve Developer Co		200,000						200,000
General Fund	21,000	13,000						34,000
Total	21,000	213,000						234,000

Budget Impact/Other

IMPACT IF DELAYED OR CANCELLED: Unfortunately, this issue will not go away; delaying this project will only lead to an increasingly unsafe area at the boat ramp. Costs are likely to continue to increase.

The Recreation and Parks Department has applied for a grant through the Marine Fisheries to cover the cost of the project.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-11 GF1115
Project Name Jack Amyette Recreation Center



Type Rehabilitation
Useful Life 30
Category Buildings
Part of Master Plan N
Externally Mandated N

Department Recreation and Parks
Contact Susan Baptist
Priority H High Priority
Growth Related Y
Service Related Y
Status Active

Description

The proposal is to redesign the Jack Amyette Complex to complement the existing Recreation Center.

The scope of this project will include:

- Redesign athletic fields to include basketball court, storage, ball fields and lighting.
- Reconfigure parking, entrance to and exit from building(s).

Justification

The complex was constructed 50 years ago. Major renovations have never been done to the facilities in this complex. The complex is spatially challenged as well as in need of significant updates. The plumbing in the Recreation Center restrooms is substandard, the roof and gutter system is deteriorating, and the parking is inadequate. The Activities Center buildings are no longer fully functional and present some ongoing safety and access concerns. Replacing these buildings with an arts and cultural center that includes space for performance, visual and dramatic arts, would not only expand the services available through the Jack Amyette complex and alleviate the safety and access concerns, but would also continue to enhance the neighborhood and contribute significantly to the ongoing redevelopment in New River. The outdoor basketball court is failing, and the current field configuration is not meeting the needs of the community nor maximizing the utility of the space. Replacing the basketball court and changing the configuration of the field to a rectangular, multipurpose field with lights would be the most effective use of space.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design	95,000							95,000
Construction		300,000						300,000
Total	95,000	300,000						395,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
General Fund	95,000	300,000						395,000
Total	95,000	300,000						395,000

Budget Impact/Other

IMPACT IF DELAYED OR CANCELLED: The residents of the New River community will continue to be denied indoor and enhanced outdoor recreation opportunities within their immediate vicinity. Delays would likely continue to have a negative impact on project costs.
 -Financed for 20 years at 5.0%

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-12 GF1004

Project Name Phillips Park



Type Improvement	Department Recreation and Parks
Useful Life 20	Contact Michael Liquori
Category Parks	Priority C Committed To
Part of Master Plan N	Growth Related Y
Externally Mandated N	Service Related Y
	Status Active

Description

The use of Phillips Park has evolved over the years, and the current configuration is no longer adequate. A total re-engineering of the park is necessary to better meet the current and future needs of the community.

The total project costs have increased significantly from the adopted CIP. This is due to an expansion of the project scope as well as project estimates being adjusted to more accurately reflect current costs.

Funds to cover the cost of replacement of the seawall are being sought by our Stormwater/Water Quality Division.

Update: According to the new Recreation Master Plan, Phillips Park poses various recreation opportunities including a potential waterfront park.

Justification

The potential benefits, in addition to the current restrictions due to conditions at the facility, make this project a top priority. Major renovations have not been done to this facility in over 30 years.

This park needs to be re-engineered to maximize utility and meet the needs of the community. The proposed design will include baseball/softball fields, a concession stand, restrooms, picnic shelters, and a playground with a safety surface. It also includes paved parking with an improved entrance and exit.

Update: The Recreation Master Plan proposes to continue to operate Phillips Park as a community park.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design			70,000					70,000
Construction			1,410,000					1,410,000
Equipment/Furnishings			30,000					30,000
Contingency			60,000					60,000
Construction Administration			20,000					20,000
Total			1,590,000					1,590,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Grants			500,000					500,000
Installment Purchase-General			1,090,000					1,090,000
Total			1,590,000					1,590,000

Budget Impact/Other

IMPACT IF DELAYED OR CANCELLED: The facility and ball field upgrades at Phillips Park are overdue. If not funded in this next CIP period, costs will likely escalate in future years. The general public will be increasingly dissatisfied with the Phillips Park facilities in their current deteriorated condition.

Installment Purchase 20 yrs at 5.0%

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service			71,637	85,964	85,964	85,964	1,389,751	1,719,280
Operating Expense			6,000	6,000	6,000	6,000	30,000	54,000
Personnel			4,678	4,783	4,926	13,434	13,836	41,657
Total			82,315	96,747	96,890	105,398	1,433,587	1,814,937

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-12 GF1006
Project Name Riverwalk Crossing Park



Type Replacement
Useful Life 20
Category Parks
Part of Master Plan N
Externally Mandated N

Department Recreation and Parks
Contact Michael Liquori
Priority C Committed To
Growth Related N
Service Related Y
Status Active

Description

The Riverwalk Crossing Park should be a center piece of the downtown revitalization effort. Rehabilitation of the landscaping and walkway as well as the construction of modular restrooms are an integral part of this proposal.

Justification

The root system of the live oaks planted at Riverwalk Crossing Park are starting to grow into the brick pavers and curbing. In some areas, the bricks are raised up due to the roots trying to surface. As time goes by we will see more of this happening throughout the park due to the continued maturation of the trees. In addition to the root damage, the brick pavers at Riverwalk Crossing Park have worked loose because of traffic, rain washing out the sand base and ground settlement. If action is not taken to repair this issue, then the brick walkway will continue to deteriorate, resulting in the need for more extensive repairs, increased costs and the potential to have more accidents or having to shut down the park until repairs can be made.

Our proposal is to have a landscape architect/arborist assess what is happening and determine the best approach for us to remediate this situation.

No permanent restroom facilities are available for public use. Community organizations and local citizens using the park frequently request this type of facility be added.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design			6,500					6,500
Construction			120,000					120,000
Contingency			10,000					10,000
Construction Administration			3,500					3,500
Total			140,000					140,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
General Fund			140,000					140,000
Total			140,000					140,000

Budget Impact/Other

IMPACT IF DELAYED OR CANCELLED: An escalating safety issue and delay in the furthering of the downtown revitalization process. Furthermore, the attraction to the use of this park will continue to diminish due to the lack of restrooms at this site.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-12 GF1207
Project Name Jacksonville Commons Phase III



Type Improvement **Department** Recreation and Parks
Useful Life 25 **Contact** Michael Liquori
Category Parks **Priority** H High Priority
Part of Master Plan N **Growth Related** Y
Externally Mandated N **Service Related** Y
Status Active

Description

Phase III Capital Improvements include:
 Construct a concession stand for the adult softball program.
 Construct a Storage Building for Athletics programs (softball, baseball and tennis).

Justification

With the completion of the adult softball fields, as part of Jacksonville Commons Phase II, restrooms were constructed without the adjacent concession stand. The completion of the adult softball fields has already attracted attention from national tournament organizations who have approached the City about hosting a series of tournaments each year. In order for the City to maximize the return on its investment, a concession stand needs to be built as soon as possible.

With the continued growth of our youth baseball/softball programs, additional storage is needed to house the required equipment for these programs.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Construction		70,000	60,000					130,000
Contingency		5,000	5,000					10,000
Total		75,000	65,000					140,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Capital Reserve Fund		70,000	65,000					135,000
Total		70,000	65,000					135,000

Budget Impact/Other

IMPACT IF DELAYED OR CANCELLED: Equipment will continue to be stored off site and there will be a significant loss of potential revenue.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-12-002
Project Name Northwoods Recreation Center



Type Rehabilitation
Useful Life 30
Category Buildings
Part of Master Plan N
Externally Mandated N

Department Recreation and Parks
Contact Susan Baptist
Priority H High Priority
Growth Related Y
Service Related Y
Status Active

Description

This project will upgrade the Northwoods Recreation Center to meet the current needs, and better position it to continue meeting the needs in future years. The Department is looking to add a 40'x40'x30' multipurpose room on the back of the building, and to update numerous existing features, including plumbing and electrical.

Justification

The original facility designed in 1959/1960 was adequate; however, over the years the increase in population in that area of Jacksonville has outgrown the facility and it no longer is able to meet the needs of the clientele. The facility needs to be expanded and major renovations to the building need to be performed due to inadequate plumbing. Other renovations include replacing floor tiles, removing asbestos, electrical, guttering/downspouts, etc.

The Department is looking to add a 40'x40'x30' multipurpose room on the back of the building. This will enable the building to service double their current number of clientele, plus allow extra room for classes, and other programs. The room will also be available for rental for large parties and/or events.

The metal awning needs to be replaced with a lighter style awning, thus maintaining the structural integrity of the front façade of the building.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design			44,880					44,880
Construction				297,000				297,000
Equipment/Furnishings				14,000				14,000
Contingency				31,100				31,100
Construction Administration				21,770				21,770
Total			44,880	363,870				408,750

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
General Fund			66,570					66,570
Installment Purchase-General				342,180				342,180
Total			66,570	342,180				408,750

Budget Impact/Other

IMPACT IF DELAYED OR CANCELLED: This building is in dire need of improvements and expansion. Each year it is delayed, more citizens will be unable to access desired services and the cost of rehabilitating the facility to meet the needs of the citizens will increase.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service - General Fund				22,483	26,980	26,980	512,620	589,063
Total				22,483	26,980	26,980	512,620	589,063

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-12 GF1205
Project Name Playground Surfaces - FY 2012



Type Replacement **Department** Recreation and Parks
Useful Life Ongoing **Contact** Michael Liquori
Category Parks **Priority** H High Priority
Part of Master Plan N **Growth Related** N
Externally Mandated N **Service Related** Y
Status Active

Description

Propose to change the existing sand surfaced playgrounds to a rubberized surface, at the rate of several playgrounds per year.
 The following parks are tentatively planned for FY 2012: Northwoods and Kerr Street Recreation Centers.

Justification

The Department is changing the original sand surfaced playgrounds to a rubberized surface. Sand provides a hospitable environment for bacteria to breed, and requires an extremely high level of maintenance. By moving to rubberized surfaces the City will have an improved cushioning for the children to play on, a much cleaner playground, along with an improved appearance. Additionally, the rubberized surface recovers from a rain event much more quickly.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Construction		65,000						65,000
Total		65,000						65,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Capital Reserve Fund		65,000						65,000
Total		65,000						65,000

Budget Impact/Other

IMPACT IF DELAYED OR CANCELLED: Increasing cost of maintenance, with the need to purchase sand yearly to replenish the surface.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-12 GF1119

Project Name Wooten Park



Type Rehabilitation	Department Recreation and Parks
Useful Life 20	Contact Michael Liquori
Category Parks	Priority M Medium Priority
Part of Master Plan N	Growth Related Y
Externally Mandated N	Service Related Y
	Status Active

Description

This request is to replace the basketball court, replace current playground surface to a rubberized surface, and the restroom facility.

Justification

The basketball court is cracking due to age and usage, and as a result now has an uneven playing surface. The court needs to be replaced.

Restrooms were built in the late 80's and are in need of major upgrades, and the playground surface is also due to be replaced.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design		4,500	2,000					6,500
Construction	35,000	52,000	44,000					131,000
Contingency			2,000					2,000
Construction Administration		7,000						7,000
Total	35,000	63,500	48,000					146,500

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
General Fund	35,000	63,500	48,000					146,500
Total	35,000	63,500	48,000					146,500

Budget Impact/Other

IMPACT IF DELAYED OR CANCELLED: If the project is not funded the condition of the court and parking lot will continue to deteriorate. Delays would likely continue to have a negative impact on project costs as well as the potential for minor improvements becoming major improvements if the conditions deteriorate to the sub-surface.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-12-005
Project Name Jacksonville Commons Skateboard Park Phase I



Type Replacement
Useful Life 20
Category Parks
Part of Master Plan N
Externally Mandated N

Department Recreation and Parks
Contact Tim Chesnutt
Priority H High Priority
Growth Related Y
Service Related Y
Status Active

Description

The Jacksonville Skateboard Park opened in 2001. The park is an outdoor facility that is constructed with wood ramps which are effected by use and the weather. This project would involve replacing the wood ramps with updated steel ramps over a three year period to reduce the annual maintenance cost of the facility. It would also allow us to install various new ramps requested by park users.

Approximately 40% of the park's ramps and infrastructure will be replaced in Phase I.

Justification

The park is 9 years old and the need for repairs is beginning to escalate. The wooden frame is beginning to show some deterioration from heavy use as well as the weather. The skating surface has been replaced yearly. During the past three years we have noted an increase in ramp deterioration and repair costs. By phasing in new ramps it will provide a safer facility to use, update the various ramps the participants want to see in the park and reduce the cost of repairs.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Equipment/Furnishings				200,000				200,000
Contingency				20,000				20,000
Construction Administration				14,000				14,000
Total				234,000				234,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
General Fund				234,000				234,000
Total				234,000				234,000

Budget Impact/Other

IMPACT IF DELAYED OR CANCELLED: Operational costs should see a steady increase in repair and maintenance costs over the next few years. Delaying the replacement of this structure will increase the cost of replacements each year as well as increase the risk of injury to citizens.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-13-001
Project Name Handicap Accessible Playground



Type New Construction
Useful Life 15
Category Parks
Part of Master Plan N
Externally Mandated N

Department Recreation and Parks
Contact Michael Liquori
Priority M Medium Priority
Growth Related Y
Service Related Y
Status Active

Description

A fully accessible playground for the use of all children within our community.

This playground will be incorporated into one of our existing parks in the community, but the final location is still to be determined.

Justification

THIS PROJECT WAS ENVISIONED TO BE INCORPORATED INTO ONE OR MORE OF OUR NEW OR EXISTING PROJECTS.

The city does not currently have a playground that is specifically dedicated for children with disabilities. This playground would allow for that and reach out to all children and adults within our community.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design			8,000					8,000
Construction			200,000					200,000
Construction Administration			5,000					5,000
Total			213,000					213,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
General Fund			213,000					213,000
Total			213,000					213,000

Budget Impact/Other

IMPACT IF DELAYED OR CANCELLED: Continuing to fall short of meeting the needs of all citizens in the our community. Delaying this project should not have any negative budgetary impact.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-13-002
Project Name Kerr Street



Type Rehabilitation
Useful Life 30
Category Buildings
Part of Master Plan N
Externally Mandated N

Department Recreation and Parks
Contact Susan Baptist
Priority M Medium Priority
Growth Related Y
Service Related Y
Status Active

Description

The Kerr Street Recreation Center, located on Kerr Street, was constructed in the early 1960's. Over the past 50 years, this building has not been renovated/expanded to keep pace with the demand. This project will upgrade the Kerr Street Recreation Center to meet the current needs, and better position it to continue meeting the needs in future years.

Justification

The original facility designed in the early 1960's was adequate; however, over the years there has been a change in the population in that area of Jacksonville, and the facility currently struggles to meet the needs of the community. The facility needs a major renovation (electrical, replacement of floor tiles, removal of asbestos, guttering/downspouts, painting inside/outside, etc.) to meet the needs of the current population. The metal awning needs to be replaced with a lighter style awning, thus maintaining the structural integrity of the front façade of the building.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design			20,400					20,400
Construction				125,000				125,000
Equipment/Furnishings				5,000				5,000
Contingency				12,500				12,500
Construction Administration				9,100				9,100
Total			20,400	151,600				172,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
General Fund			20,400	151,600				172,000
Total			20,400	151,600				172,000

Budget Impact/Other

IMPACT DELAYED OR CANCELLED: This building is in dire need of improvements and expansion. Delays would likely continue to have a negative impact on project costs.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-13-003
Project Name Jacksonville Commons Skateboard Park Phase II



Type Replacement
Useful Life 20
Category Parks
Part of Master Plan N
Externally Mandated N

Department Recreation and Parks
Contact Mike Wetzel
Priority H High Priority
Growth Related Y
Service Related Y
Status Active

Description

The Jacksonville Skateboard Park opened in 2001. The park is an outdoor facility that is constructed with wood ramps which are affected by use and the weather. This project would involve replacing the wood ramps with updated steel ramps over a three year period to reduce the annual maintenance cost of the facility. It would also allow us to install various new ramps requested by park users.

Approximately 35% of the park's ramps and infrastructure will be replaced in Phase II.

Justification

The park is 9 years old and the need for repairs is beginning to escalate. The wooden frame is beginning to show some deterioration from heavy use as well as the weather. The skating surface has been replaced yearly. During the past three years we have noted an increase in ramp deterioration and repair costs. By phasing in new ramps it will provide a safer facility to use, update the various ramps the participants want to see in the park and reduce the cost of repairs.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Equipment/Furnishings						165,000		165,000
Contingency						16,500		16,500
Construction Administration						11,550		11,550
Total						193,050		193,050

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
General Fund						193,050		193,050
Total						193,050		193,050

Budget Impact/Other

IMPACT IF DELAYED OR CANCELLED: Operational costs should see a steady increase in repair and maintenance costs over the next few years. Delaying the replacement of this structure will increase the cost of replacements each year as well as increase the risk of injury to citizens.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-13-004
Project Name Playground Surfaces - FY 2013



Type Replacement **Department** Recreation and Parks
Useful Life Ongoing **Contact** Michael Liquori
Category Parks **Priority** H High Priority
Part of Master Plan N **Growth Related** N
Externally Mandated N **Service Related** Y
Status Active

Description

Propose to change the existing sand surfaced playgrounds to a rubberized surface, at the rate of several playgrounds per year.
 The following parks are tentatively planned for FY 2013: Northeast Creek, Georgetown, Brook Valley, and Sherwood Forest.

Justification

The Department is changing the original sand surfaced playgrounds to a rubberized surface. Sand provides a hospitable environment for bacteria to breed, and requires an extremely high level of maintenance. By moving to rubberized surfaces the City will have an improved cushioning for the children to play on, a much cleaner playground, along with an improved appearance. Additionally, the rubberized surface recovers from a rain event much more quickly.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Construction			165,000					165,000
Total			165,000					165,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
General Fund			165,000					165,000
Total			165,000					165,000

Budget Impact/Other

IMPACT IF DELAYED OR CANCELLED: Increasing cost of maintenance, with the need to purchase sand yearly to replenish the surface.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-13-005
Project Name Richard Ray All-American Park Phase II



Type Improvement
Useful Life 25
Category Parks
Part of Master Plan Y
Externally Mandated N
Department Recreation and Parks
Contact Michael Liquori
Priority C Committed To
Growth Related Y
Service Related Y
Status Active

Description

Phase II of the Richard Ray Park project seeks to purchase and install an additional picnic shelter, grills, picnic tables, trash receptacles. Phase I (GF9801) was completed in FY2010.

Justification

These elements are a part of the Richard Ray All-American Park Master Site Plan. Additional picnic shelters will alleviate the over crowding of the current picnic shelter. Extending the pathways and planting the gardens will provide the citizens the opportunity to enjoy a first rate passive park within the city limits of Jacksonville. The current playground and picnic shelter are being used daily and very heavily on weekends and holidays. The site has become a focal point for out of City school children and other agencies who bring their children to the site for outdoor activities.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Construction		25,000						25,000
Equipment/Furnishings		7,000						7,000
Contingency		2,500						2,500
Construction Administration		1,750						1,750
Total		36,250						36,250

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
General Fund		36,250						36,250
Total		36,250						36,250

Budget Impact/Other

IMPACT IF DELAYED OR CANCELLED: If project is not funded the cost to purchase and install a picnic shelter, gardens and concrete pathways will likely increase. The current picnic shelter will continue to be in high demand, over crowded and over utilized requiring additional maintenance and downtime.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-14-002
Project Name Williamsburg Plantation Park



Type New Construction
Useful Life 25
Category Parks
Part of Master Plan Y
Externally Mandated N

Department Recreation and Parks
Contact Michael Liquori
Priority L Low Priority
Growth Related Y
Service Related Y
Status Active

Description

The proposed development of the 17 acre park in the Williamsburg Plantation subdivision would consist of an indoor facility, athletic fields, playground, picnic shelters, restrooms, a nature trail, parking areas, retention pond and landscaping. The indoor facility would consist of a multi-sport court with meeting rooms, restrooms, snack/eating area, offices, rental area, mezzanine, and a walking track.

Justification

In the 2007 survey of residents of Jacksonville, an interest was expressed for a park to be developed in this sub-division. This large sub-division has no public indoor facilities nor do the bordering subdivisions.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Planning/Preliminary Design				25,000				25,000
Engineering/Design				75,000				75,000
Construction					50,000	4,080,000	4,725,000	8,855,000
Total				100,000	50,000	4,080,000	4,725,000	8,955,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
General Fund				100,000	50,000			150,000
Installment Purchase-General						8,805,000		8,805,000
Total				100,000	50,000	8,805,000		8,955,000

Budget Impact/Other

IMPACT IF DELAYED OR CANCELLED: Will continue to deny the citizens access to a recreation park and indoor facility within their neighborhood. Delays will result in increased costs and need to construct a facility at a later date.

Funding sources which may be available for this project include PARTF and Recreational Trails program grants.
 -Financed for 20 years at 5.0%

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service						578,680	13,309,640	13,888,320
Personnel							958,000	958,000
Total						578,680	14,267,640	14,846,320

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-14-003
Project Name Trail Amenities



Type Improvement
Useful Life 25
Category Trails and Greenways
Part of Master Plan Y
Externally Mandated N

Department Recreation and Parks
Contact Mike Wetzel
Priority L Low Priority
Growth Related Y
Service Related Y
Status Active

Description

Purchase and install emergency call boxes, signs, bollards, trash receptacles, park benches, bicycle rack, and landscaping along the Rails to Trails project, US 17/Downtown Trail and the Chaney Creek Power-Line Trail. Emergency call boxes are projected to be placed every 1/2 mile to one mile. Mile markers are projected to be placed every 1/4 to 1/2 miles. Lighting will be strategically placed along the trail to provide the Jacksonville Police Department, Emergency Management Services and the user a sense of direction and visibility. Bollards will be placed along various portions of the trail to manage the access by motorized vehicles. Various street signs and rule signs will be located along the trail for information. Grant funding will be applied for to offset some of the costs.

Justification

The trail amenities requested are recommendations from the Trails and Greenways Commission sub-committee that was organized to review the use of the trail and address any safety concerns.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Equipment/Furnishings				44,870	35,000			79,870
Contingency				8,974	7,000			15,974
Total				53,844	42,000			95,844

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
General Fund				10,769	8,400			19,169
Grants				43,075	33,600			76,675
Total				53,844	42,000			95,844

Budget Impact/Other

IMPACT IF DELAYED OR CANCELLED: Delaying this project should not have any negative budgetary impact.

Service for emergency call boxes: \$600 for the year.

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Operating Expense				600	618			1,218
Total				600	618			1,218

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-14-004
Project Name Trail Head Park



Type New Construction
Useful Life 30
Category Parks
Part of Master Plan N
Externally Mandated N

Department Recreation and Parks
Contact Mike Wetzel
Priority L Low Priority
Growth Related Y
Service Related Y
Status Active

Description

Construct a Trail Head Park consisting of a building with restrooms, office, retail, and storage space; parking lot, signage, landscaping and bicycle racks. The Trail Head facility should be located on the land near the corner of HWY 17 and Bell Fork Road adjacent to the Rails to Trails route. The Park could include a modular playground unit and some open space. Funds would include planning, permit fees and site development (site-plan) detention pond.

Justification

With the development of the Rails to Trails project which was completed in June 2008, it is beneficial to have Trail Heads located along the Trail. The Rails to Trails Project is the backbone of the Pedestrian and Circulation Plan. The proposed Trail Head would be situated parallel to Hwy 17. This location would provide visibility to the Rails to Trails project and easy access for the public. Patrons would be able to park their vehicle, use the facilities amenities, shop, rent equipment, rest, obtain information about the City, County and other communities, as well as use the outdoor recreation area. This could very well be a partnership with other agencies or private businesses to lease the facility. Grants from the State will be applied for, such as Adopt-A-Trail, Recreational Trails Program, and PARTF.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Planning/Preliminary Design				300,000				300,000
Engineering/Design					100,000			100,000
Construction					1,000,000			1,000,000
Equipment/Furnishings						200,000		200,000
Contingency					10,000			10,000
Construction Administration					70,000			70,000
Total				300,000	1,180,000	200,000		1,680,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
General Fund				300,000	70,000			370,000
Installment Purchase-General					1,290,000			1,290,000
Total				300,000	1,360,000			1,660,000

Budget Impact/Other

IMPACT IF DELAYED OR CANCELLED: Delaying this project will not have any negative budgetary impact.

It is the hope of the Recreation and Parks Department that the trail head can be sub-leased at a fee of \$12,000 per year. This would need to be approved by the City Manager and City Council.

-Financed for 20 years at 5.0%

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service					84,781	101,737	1,848,222	2,034,740
Operating Expense					3,198	3,198	15,990	22,386
Total					87,979	104,935	1,864,212	2,057,126

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-14-007
Project Name Northeast Creek Park Phase II



Type Rehabilitation **Department** Recreation and Parks
Useful Life **Contact** Michael Liquori
Category Parks **Priority** H High Priority
Part of Master Plan N **Growth Related** Y
Externally Mandated N **Service Related** Y
Status Active

Description

Staff is proposing to incorporate a canoe/kayak launch, expand and reconfigure the existing parking area to enhance its capacity and utility for boats and trailers, the replacement of the two timber boardwalks, the addition of a restroom facility, and the restoration of natural habitats. This phase focuses on the expansion and reconfiguration of the parking lot, the addition of a restroom facility and a canoe/kayak launch as well as the restoration of the natural habitats.

Justification

Although a parking lot exists at the boat ramp site, this is a single car parking area with no dedicated parking for boat trailers. We would like to expand and reconfigure the current parking lot, creating dedicated parking for boat trailers.

Several areas of the boardwalk (constructed in the late 80s) are in need of repair due to hurricanes and strong storm surges. Pilings that support the boardwalk have sunken into the ground over time and have created an unsafe and uneven walkway. The proposal includes replacing the two existing boardwalks with one boardwalk.

There are currently no restroom facilities at the boat ramp site; the nearest restroom facility is located a quarter mile away. We would like to install a pre-fabricated 20x20 restroom facility at this site.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Construction				430,650				430,650
Total				430,650				430,650

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
General Fund				430,650				430,650
Total				430,650				430,650

Budget Impact/Other

IMPACT IF DELAYED OR CANCELLED: Unfortunately, this issue will not go away; delaying this project will only lead to an increasingly unsafe area at the boardwalk. Costs are likely to continue to increase, and the damage to the boardwalk will continue to worsen if left unaddressed.

The Recreation and Parks Department has applied for a grant through the Marine Fisheries to cover the cost of the project.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-15-001
Project Name Playground Surfaces - FY 2014



Type Replacement
Useful Life Ongoing
Category Parks
Part of Master Plan N
Externally Mandated N

Department Recreation and Parks
Contact Michael Liquori
Priority H High Priority
Growth Related N
Service Related Y
Status Active

Description

Propose to change the existing sand surfaced playgrounds to a rubberized surface, at the rate of several playgrounds per year.

The following parks are tentatively planned for FY 2014: Wilson Bay, Sturgeon City, Jacksonville Commons, and Woodlands Park (two playgrounds).

Justification

The Department is changing the original sand surfaced playgrounds to a rubberized surface. Sand provides a hospitable environment for bacteria to breed, and requires an extremely high level of maintenance. By moving to rubberized surfaces the City will have an improved cushioning for the children to play on, a much cleaner playground, along with an improved appearance. Additionally, the rubberized surface recovers from a rain event much more quickly.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Construction				180,000				180,000
Total				180,000				180,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
General Fund				180,000				180,000
Total				180,000				180,000

Budget Impact/Other

IMPACT IF DELAYED OR CANCELLED: Increasing cost of maintenance, with the need to purchase sand yearly to replenish the surface.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # RC-15-002
Project Name Richard Ray All-American Park Phase III



Type Improvement **Department** Recreation and Parks
Useful Life 25 **Contact** Michael Liquori
Category Parks **Priority** C Committed To
Part of Master Plan Y **Growth Related** Y
Externally Mandated N **Service Related** Y
Status Active

Description

Phase III of the Richard Ray Park project seeks to begin installing sidewalk pathways for the Richard Ray Park area.

Justification

These elements are a part of the Richard Ray All-American Park Master Site Plan.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Construction					180,000			180,000
Contingency					18,000			18,000
Construction Administration					12,600			12,600
Total					210,600			210,600

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
General Fund					210,600			210,600
Total					210,600			210,600

Budget Impact/Other

IMPACT IF DELAYED OR CANCELLED: If project is not funded the cost to install sidewalks will likely increase.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # TR-11 TR1102
Project Name Jacksonville Commons Park and Ride



Type Improvement	Department Transportation
Useful Life 25	Contact Ron Massey
Category Combined Infrastructure	Priority H High Priority
Part of Master Plan N	Growth Related Y
Externally Mandated N	Service Related Y
	Status Active

Description

The Jacksonville Commons Park and Ride project consists of the construction of a parking lot in the Jacksonville Commons. This lot will serve as a park and ride location for Jacksonville Transit shuttles to two primary locations, downtown and Coastal Carolina Community College. There is tremendous growth in the College student population and limited parking on the campus. This park and ride lot will provide a needed parking area along the existing bus routes between the College and downtown Jacksonville, along with other areas as demand is determined.

Justification

One a daily basis numerous individuals travel to Jacksonville for work and school. The selected location for the park and ride is ideal due to its northerly situated location. The establishment of the park and ride presents an opportunity for future express commuter routes to area bases and major employers within the City. It will address current demand for transit shuttles and alleviate parking issues at Coastal Carolina Community College.

If ARRA funding is not available for this project Federal Transit Administration funds may serve as a second source of funding.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Engineering/Design		15,000						15,000
Construction		370,000						370,000
Contingency		37,000						37,000
Construction Administration		31,000						31,000
Total		453,000						453,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Grants	453,000							453,000
Total	453,000							453,000

Budget Impact/Other

American Recovery and Reinvestment Act (ARRA) Funding will be forgiven in full.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # TR-12 GR1002
Project Name Intelligent Transportation System (ITS)



Type New Construction
Useful Life 20
Category Combined Infrastructure
Part of Master Plan Y
Externally Mandated N

Department Transportation
Contact Earl Bunting
Priority H High Priority
Growth Related Y
Service Related Y
Status Active

Description

Jacksonville Intelligent Transportation System is a computerized signal system that includes all traffic signals in the region, 45 traffic cameras, 20 DMS traveler information signs, fiber optic network, and a traffic management center. The center will be housed in the new Public Safety Headquarters and contain approximately 1,250 square feet.

AMENDED 1/19/2010 ORDINANCE (2010-07) BK 10, PG 130

Established Project 1/19/2010:

Total project costs are estimated at \$7.2M, of which \$5M is being covered by the NCDOT through payment of actual construction costs. The City must finance \$1.9M and provide a \$300,000 in-kind match. NCDOT will also cover 90-95% of the personnel costs associated with manning the system center, no agreement in place at this time.

As part of this system, Auto License Plate Recognition (ALPR) cameras will be installed at intersections surrounding the city. We were quoted for 10 ALPR cameras as a general guideline for estimating the cost of the project. Equipment purchase only would cost \$138,850. This number of cameras would only cover vehicles entering the city.

However to fully cover each lane of traffic on the major throughfares entering and exiting the city, it would require a minimum of 20 ALPR cameras doubling the cost to \$277,700. We would be requesting the 20 ALPR camera systems. The installation costs are to be determined (per Earl Bunting).

Justification

This system is needed to maximize the existing transportation network through improved efficiency, traffic congestion reduction, and better traffic incident management. Results from other NC communities have shown as much as a 40 percent reduction in traffic delays and congestion.

In addition to the transportation network, an ALPR system would assist law enforcement in identifying wanted persons and stolen vehicle entering or leaving the City of Jacksonville; providing critical license plate data in order to terminate motor vehicle pursues leaving the jurisdiction; tracking gang and gang related activities; or identifying persons who have been placed on the FBI's Terrorist Watch List. This system would enable the Jacksonville Police Department to organize and archive data, per retentions guidelines, to assist active investigations.

Within the system, detectives will be able query data against multiple search parameters including time, date, full or partial plate, and location. ALPR would date and time stamp each license for tracking vehicle movements. In association with the Intelligent Traffic Management System, any vehicle identified on one of the databases can be monitored by providing location and direction of travel to direct law enforcement personnel to the specific vehicle.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Construction		7,200,000						7,200,000
Equipment/Furnishings				277,770				277,770
Total		7,200,000		277,770				7,477,770

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Grants		5,000,000						5,000,000
In-Kind Match		300,000						300,000
Installment Purchase-General		1,900,000		277,770				2,177,770
Total		7,200,000		277,770				7,477,770

Budget Impact/Other

Operating costs will be offset by NCDOT funding and would not begin until 2012. Projected annual operating costs are \$325,000 with NCDOT pending an agreement to such covering 90-95% of these costs. Projected operating expenses include an annual 3% inflation adjustment. This is only a preliminary estimate as of Jan 2010.

-General Fund installment purchase issued for 10 years at 4%.

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Debt Service		191,727	230,072	230,072	230,072	230,072	1,516,150	2,628,165
Personnel			325,000	334,750	344,792	355,136		1,359,678
Total		191,727	555,072	564,822	574,864	585,208	1,516,150	3,987,843

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Project # TR-12 TR
Project Name Multimodal Transportation Center

Type New Construction	Department Transportation
Useful Life 30	Contact Jeff Crouchley
Category Buildings	Priority H High Priority
Part of Master Plan Y	Growth Related Y
Externally Mandated N	Service Related Y
	Status Active

Description

Construct a Multimodal Transportation in the Downtown area that will provide a central location for transportation and transit related services. The center is envisioned to provide space for Jacksonville Transit operations and staff for the Intelligent Transportation System (ITS) and the Jacksonville Unified Metropolitan Planning Organization (JUMPO) as well as serve as the transfer location for Jacksonville Transit routes, Greyhound buses and local taxis.

The cost of this project will be funded with FTA 5307 Grant Funds(80%), NCDOT 5307 Grant Funds (10%) and City of Jacksonville Funds (10%).

Justification

Jacksonville Transit began operations in November 2007 and has seen increasing ridership each year. In order to provide the most effective transportation to the residents of Jacksonville, it is time to establish a central location where the various modes of transportation which operate locally can stop to allow passengers to conveniently change modes of travel. Establishing stops for Jacksonville Transit, Intercity buses, Onslow United Transit System and local taxis at one location in Downtown would assist residents to meet their transportation need in an effective and efficient manner. In addition, office space would be built to collocate related transportation related functions such as Jacksonville Transit, JUMPO and ITS operations to improve coordination and satisfy future space needs for the City.

Locating the Multimodal Transportation Center in the Downtown area would also contribute to Downtown Redevelopment.

Expenditures	Prior	2012	2013	2014	2015	2016	Future	Total
Planning/Preliminary Design		100,000						100,000
Engineering/Design		116,000	200,000					316,000
Land/Right of Way		100,000						100,000
Construction				4,000,000				4,000,000
Equipment/Furnishings					100,000			100,000
Contingency					400,000			400,000
Total		316,000	200,000	4,000,000	500,000			5,016,000

Funding Sources	Prior	2012	2013	2014	2015	2016	Future	Total
Federal Transit Funds		4,012,800						4,012,800
General Fund		501,600						501,600
State Transit Funds		501,600						501,600
Total		5,016,000						5,016,000

Budget Impact/Other

Operating costs will be offset by FTA 5307 Grant, and NC SMAP Funds as well as potential lease revenue received from non-City entities. Projected costs are preliminary estimates that will be refined during the preliminary engineering phase of the project.

Capital Improvement Plan

2012 *thru* 2016

City of Jacksonville, NC

Budget Items	Prior	2012	2013	2014	2015	2016	Future	Total
Operating Expense						10,000	70,000	80,000
Total						10,000	70,000	80,000

