

CAPITAL IMPROVEMENT
PROGRAM
FOR THE
CITY OF ALBEMARLE



ALBEMARLE
NORTH CAROLINA
Water. Air. Land. Opportunity.

FISCAL YEARS 2019 – 2023

ADOPTED
March 5, 2018

CAPITAL IMPROVEMENT PROGRAM (CIP): AN INTRODUCTION

What is the Capital Improvement Program?

The City of Albemarle's Capital Improvement Program (CIP) is a planning and budgeting tool that provides detailed information about the City's capital needs over a five-year time frame. The five years of the CIP outlines the capital projects proposed for implementation along with their estimated costs; however, the CIP is designed to be a flexible planning tool for the City of Albemarle. Each year, the list of projects is reviewed for need, cost, and priority. Projects may be added, deleted, delayed, accelerated or new projects may be inserted. City staff will provide recommendations regarding the alteration of the desired timetables of projects with the ultimate responsibility for approval and implementation resting with City Council. In this regard, the Capital Improvement Budget process flows very similarly to the adoption of the City's operating budget.

Generally, capital improvements are defined as physical assets, constructed or purchased, that have a useful life of 5 years or greater and a cost of \$40,000 or more. Examples of projects that meet this definition of a capital improvement are:

1. New and expanded facilities.
2. Large scale rehabilitation or replacement of existing facilities.
3. Equipment for any public facility or improvement when first constructed or acquired.
4. The cost of engineering or architectural studies and services relative to the improvement.
5. The acquisition of land for a community facility such as a park, road, sewer line, etc.
6. Purchase of vehicles or equipment, when it has an expected useful life of 5 years or more and a cost of \$40,000 or greater.

Benefits of a Capital Improvement Program and Capital Spending

A CIP is a financial planning and growth management instrument. A well-developed CIP will allow the City of Albemarle to forecast trends and capital needs. Through the use of the CIP, the City will be able to successfully plan for and address infrastructure needs. Due to the cost associated with capital projects, organizations are often not prepared to deal with capital requirements in the most efficient manner, with emergency needs frequently being the determining factor on assigning capital priorities. Clearly, a reactionary approach to expenditures and investments of this size is neither desirable nor the best way to address a significant aspect of the City's future. Other benefits of a CIP include:

1. Planning for the repair, replacement, and acquisition of capital items.
2. Assisting with financial planning by forecasting capital needs with future revenues and expenditures.
3. Ensuring better coordination and evaluation of community needs.
4. Serving as a guide for the Mayor, City Council and City staff in decision-making.
5. Meeting the prerequisite in eligibility to apply and receive many different grants.

The City of Albemarle continues to operate in a very fiscally conservative atmosphere. All expenditures involve some form of public money, and the City Council and staff are cognizant of our limited resources. In this type of fiscal environment, the City must strive to be as efficient as possible to continue to provide a high level of services at reasonable tax and utility rates to our citizens. While capital projects and outlays are large expenditure items, they can assist in reducing costs and enhance an organization's availability to provide efficient service. Examples of these benefits include:

1. Reduced maintenance costs.
2. Reduced down time.
3. More efficient methods and procedures.
4. Enhanced safety.
5. Address the needs of the public.

Capital Outlays and Capital Projects

CAPITAL OUTLAYS

"Capital outlays", which are budgeted within the City's operating budget, include moderate expenditures for such things as furniture, vehicles, equipment needed to support the operation of the City's programs, minor construction projects, landscaping projects, and facility repairs. Generally, a capital outlay item is defined as an item valued between \$5,000 and \$40,000 with a life expectancy of less than five (5) years.

CAPITAL PROJECTS

"Capital projects" generally include major fixed assets or infrastructure with long-term values, such as buildings, roads, bridges, and parks, and may involve some form of debt financing. Capital project costs also include all expenditures related to the planning, design, construction, and equipment necessary to bring a facility on line or part of a larger project. These costs should be fully identified and noted in the CIP. For example, the repair or replacement of bleachers, backstop, batting cages and lighting at the Montgomery Park could comprise a capital project for the renovation of the facility, even though individually the specific items would not.

Why have a Capital Improvement Program?

The Capital Improvement Program provides information on the current and long-range infrastructure and equipment requirements of the City. It is a mechanism for balancing needs and resources and for setting priorities and schedules for capital projects. It is based on needs identified through the planning process, requests and recommendations of the City Manager, City Departments, and from the input of citizens and elected officials.

Because the CIP identifies the capital needs of the City for the next five years, it also includes identification of the revenue sources that will be utilized to fund Capital Improvements. Projects may be funded in many different ways (e.g., current revenues, grants, government loans, debt financing, bonds, etc.) depending on the availability of funds, the nature of the project, and the policies of Council.

The CIP combines all of the individual Departmental needs and coordinates them within the context of the needs of the City of Albemarle as a whole. While the CIP outlines exactly what each Department sees as its future needs and prioritizes them within the Department, it also allows the City Council to weigh the needs and goals of all Departments simultaneously to make decisions for the entire City. In this process, the overall good or benefit of a project must be weighed against requested projects of other functional areas, particularly those competing for the same funding resources. Because funding for projects is limited and competitive, decisions should be made in the context of overall City needs. The CIP and its process facilitate City-wide planning and informed decision-making. Identification of projects assures needed projects are being addressed while prioritization ensures that those projects which are most urgently needed are funded first.

Why a Separate Capital Project Budget?

The five-year Capital Improvement Budget lays out planned capital expenditures over this time period. Funds identified through the CIP for a specific project remain with that project until the project is completed, while the operating budget “terminates” at the end of each fiscal year. This allows anyone reviewing the CIP to view the identified funding source for multi-year projects. In addition, expenditures typically found in the operating budget are more routine in nature. Salaries, insurance, postage, small tools and equipment, etc. are reoccurring costs that must be borne by the operating budget each year. With slight annual adjustments, expenditures for these items are more stable.

In contrast, the needs identified in the CIP are non-recurring in nature and are not the routine expenditures incurred by the City that provide for the day to day operation of the City. Funds for capital items are typically only appropriated once the necessary items in the operating budget have been provided. With a minimum cost of \$40,000, it is also beneficial to the City to separate capital from operating expenditures and provide for

greater explanation and detail of the requests for individual capital items (which are non-routine and where more discretion and flexibility can be utilized).

How Are Projects Prioritized?

Similarly to the operating budget, each Department prepares annually and prioritizes their capital needs. Departmental requests are combined and presented to the City Council for review. City Council is responsible for discussing, selecting, and prioritizing the capital requests. City Council has complete discretion for the prioritization of projects and the Capital Improvements Budget and Program. Therefore, it may also include projects originating from the request of the City Council. When all requests for capital project funding is complete, priority is given to projects needed to meet the goals and policies as defined by the City. Understanding and prioritizing City goals is necessary to allocate the limited revenue sources to projects each year.

Since enterprise activities such as the operations of the Public Utilities Department and the City of Albemarle Landfill have their own funding sources, they do not compete with projects in other City funds for funding. Various operations generate their own revenue to maintain operations and do not rely on funds from any other City source or operation. This is also the standard operating procedure in the development of the City annual operating budget and is based upon the fundamentals of fund accounting.

How Are Project Costs Determined?

Providing the most accurate cost estimate possible is a crucial step in this process. It may well prove difficult to develop accurate scopes, cost estimates, and schedules for projects on which no preliminary engineering or other work has been done. For projects identified as five years out in the CIP, this type of work may prove to be impractical as there is no guarantee a project will ever come to fruition. Each year, the CIP should be adjusted as project costs become more firmly known. As staff gains experience with the process and the anticipated implementation date draws closer, the information provided will be complete and accurate.

Individual project costs within the CIP should include all costs related to design, acquisition, construction, project management, equipment, legal expenses, mitigation of damages, title costs, and other land related costs (e.g., computer lines, telephone lines, etc.) when such information is available. The purpose of a CIP is to project the complete cost of a project and all its components.

How Are Financing Decisions Made?

Financing decisions are made based on established City policies, practices and available funding options. The most obvious option is to use current resources such as current revenues, fund balance, and retained earnings; however, financing options must be explored from time to time in order to meet all of the goals and objectives of the City. These options are directly related to project timing and choice of revenue sources. The City of Albemarle staff has and will continue to make recommendations to City Council concerning the feasibility of funding each project and on the potential sources of funding for each proposed project.

While some projects can be delayed until funds from existing revenues are available, others cannot. If this situation was to arise, the City must investigate other options such as grants, user fees, bonds, capital leases and loans and increased taxes. Again, Council will have to weigh the needs and desire for projects against the financial impact and revenue sources to fund requests. Staff will play a vital role in assisting City Council with these issues.

SUMMARY

The Capital Improvement Program represents the mutual efforts of all City Departments, the Mayor, and City Council to meet the infrastructure and service needs to serve City residents and visitors. The guidelines of this document provide a basis for the conception and preparation of the City's Capital Improvement Program. Following the guidelines of the CIP is designed to result in improved coordination of City activities and expenditures, to responsibly allocate limited City resources and to properly plan for large-scale needs of the City of Albemarle.



**CITY OF ALBEMARLE
CAPITAL PROJECT CHAR'
FY 2019-2023
TOTALS-ALL FUNDS**



CAPITAL REQUEST	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE	TOTAL
General	\$ 9,366,800	\$ 6,702,500	\$ 7,963,050	\$ 8,115,550	\$ 4,540,350	\$ 10,668,600	\$ 47,356,850
Solid Waste and Disposal	\$ 236,400	\$ 226,400	\$ 366,400	\$ 306,400	\$ 386,400	\$ 870,000	\$ 2,392,000
Powell Bill	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 1,500,000
Water and Sewer	\$ 5,987,000	\$ 3,293,000	\$ 2,569,000	\$ 6,781,000	\$ 3,477,000	\$ 11,300,000	\$ 33,407,000
Electric	\$ 2,247,000	\$ 1,820,000	\$ 1,435,000	\$ 1,075,000	\$ 1,055,000	\$ 1,945,000	\$ 9,577,000
Public Housing	\$ 284,940	\$ 101,500	\$ 254,440	\$ 234,940	\$ 300,900	\$ 262,100	\$ 1,438,820
TOTALS	\$ 18,372,140	\$ 12,393,400	\$ 12,837,890	\$ 16,762,890	\$ 10,009,650	\$ 25,295,700	\$ 95,671,670



**CITY OF ALBEMARLE
CAPITAL PROJECT CHART
FY 2019-2023
GENERAL FUND**



CAPITAL REQUEST	DEPT	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE	TOTAL
New Facility	Police	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ -	\$ 3,000,000
City-wide Phone	Info Sys.	\$ 48,000	\$ 48,000	\$ 44,000			\$ 40,000	\$ 180,000
Email, MS Office, Apps	Info Sys.	\$ 68,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000		\$ 284,000
Network Infrastruct	Info Sys.	\$ 110,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000		\$ 350,000
Storage Sys.	Info Sys.	\$ 75,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 25,000	\$ 260,000
Access-Control	Info Sys.	\$ 48,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 68,000
Council Chambers	Info Sys.	\$ 56,000	\$ 9,000	\$ 9,000	\$ 9,000	\$ 9,000	\$ 9,000	\$ 101,000
Pool Reno/Improvemt	P/R	\$ 12,500	\$ 150,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 302,500
Greenway Expansion	P/R		\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 400,000
Playground Improvements	P/R		\$ 50,000		\$ 50,000		\$ 50,000	\$ 150,000
Baseball Field/Tennis Court Improvemt	P/R		\$ 20,000		\$ 15,000	\$ 15,000	\$ 5,000	\$ 55,000
EE Waddell Phase 3	P/R	\$ 80,000	\$ 130,000	\$ 25,000	\$ 870,000	\$ 25,000	\$ 50,000	\$ 1,180,000
Picnic Shelter Improvements	P/R	\$ 7,500	\$ 15,000	\$ 15,000	\$ 15,000			\$ 52,500
Mills Athletic Complex	P/R	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 1,000,000		\$ 2,000,000	\$ 9,000,000
Lighting at Soccer Complex	P/R					\$ 125,000		\$ 125,000

City Lake Future Phases	P/R						\$ 600,000	\$ 600,000	\$ 1,200,000
Replace Ladder 11	Fire	\$320,000	\$320,000	\$320,000	\$320,000	\$320,000			\$ 1,600,000
Deputy Chief Vehicle	Fire		\$70,000						\$ 70,000
SCBA Upgrade	Fire		\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$ 300,000
Relocate Ladder 11	Fire				\$500,000				\$ 500,000
Replace Fire Station 2	Fire						\$6,000,000		\$ 6,000,000
Rescue Apparatus	Fire						\$750,000		\$ 750,000
Pavement Mgmt Plan	Public Works	\$ 350,000	\$ 450,000	\$ 550,000	\$ 650,000	\$ 750,000	\$ 750,000	\$ 750,000	\$ 3,500,000
Equipmt Storage	Public Works	\$ 300,000							\$ 300,000
Fleet Maint. Facility	Public Works	\$ 823,500	\$ 103,500	\$ 103,500	\$ 103,500	\$ 103,500			\$ 1,237,500
Street Sweeper	Public Works	\$ 65,000	\$ 65,000	\$ 65,000	\$ 65,000	\$ 65,000			\$ 325,000
Skid Steer w/Attachmnts	Public Works	\$ 13,200	\$ 13,200	\$ 13,200	\$ 13,200	\$ 13,200			\$ 66,000
Single Axle Dump Truck	Public Works	\$ 21,600	\$ 21,600	\$ 21,600	\$ 21,600	\$ 21,600			\$ 108,000
Street Vacuum Trk	Public Works		\$ 97,200	\$ 97,200	\$ 97,200	\$ 97,200	\$ 97,200	\$ 97,200	\$ 486,000
Dump Truck w/Snow Plow Accessories	Public Works		\$ 120,000						\$ 120,000
ROW Mower	Public Works			\$ 80,000					\$ 80,000
Dbl Axle Dump Truck	Public Works			\$ 37,800	\$ 37,800	\$ 75,600	\$ 113,400		\$ 264,600

Single Axle Dump Truck	Public Works				\$ 108,000			\$ 108,000
Streetscape	Admin	\$ 52,500	\$ 202,000	\$ 202,000	\$ 1,387,250	\$ 1,387,250		\$ 3,231,000
Corporate Center	Econ. Dev.	\$ 4,316,000	\$ 1,920,000	\$ 3,446,750	\$ 1,920,000			\$ 11,602,750
TOTAL		\$ 9,366,800	\$ 6,702,500	\$ 7,963,050	\$ 8,115,550	\$ 4,540,350	\$ 10,668,600	\$ 47,356,850



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: ADMINISTRATION

Fund: General Fund

PROJECT TITLE: Streetscape Implementation		PRIORITY:	1	
PURPOSE: Expand				
PROJECT DESCRIPTION				
Implementation of long term goals within Streetscape Master Plan				
JUSTIFICATION				
The City's Streetscape Master Plan was adopted in 2016; implementation that remains includes adding historic street signs and blades to existing traffic bar signals; new posts; retrofitting lamp posts; painted sharrows; urban core streetscapes; self-watering planters; curb extensions; transit shelters; street tree and tree pit retrofits; alleyscapes; and downtown gateways. Short term/lower cost items to be implemented in 2017-18 and 2018-19; middle of the road effort to be implemented in 2019-20 and 2020-2021; long term and higher cost will be implemented in 2021-22 and future years.				
CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18	\$ 189,340	PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 52,500	PURCHASE	\$ 1,710,170 CURRENT REVENUE	
FY 2019-20	\$ 202,000			
FY 2020-21	\$ 202,000	CONSTRUCTION	\$ 1,710,170 CURRENT REVENUE	
FY 2021-22	\$ 1,387,250			
FY 2022-23	\$ 1,387,250	MISCELLANEOUS		
FUTURE YEARS			OTHER:	
TOTAL	\$ 3,420,340		OTHER:	
		OTHER:		
		OTHER:		
		TOTAL	\$ 3,420,340	

DESCRIPTION OF SOURCE ESTIMATE: 2016 Master Plan developed by Stantec

REQUESTED BY: Michael Ferris
Department Head

DATE: 1/8/2018



CITY OF ALBEMARLE
 CAPITAL PROJECT CHART
 FY 2019-2023



DEPARTMENT: ECONOMIC DEVELOPMENT
 FUND: General Fund

REQUEST	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE
Corporate Center	\$ 4,316,000	\$ 1,920,000	\$ 3,446,750	\$ 1,920,000	\$ -	\$ -
TOTAL		\$ 1,920,000	\$ 3,446,750	\$ 1,920,000	\$ -	\$ -

REQUESTED BY: Mark Donham
 Department Head

DATE: 1/8/2019



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: ECONOMIC DEVELOPMENT

Fund: General Fund

PROJECT TITLE: Development of Albemarle Corporate Center		PRIORITY: 1	
PURPOSE: Expand			
PROJECT DESCRIPTION			
Develop Corporate Center to retain and Attract Business and Industry			
JUSTIFICATION			
Necessary to attract and retain business and industry to increase jobs and tax base; this provides stability and growth.			
Water&Sewer-\$971,850 ; Electricity-\$1,360,700:		FY 2019:	
Water&Sewer-\$0; Electricity-\$0		FY 2020:	
Water&Sewer-\$700,700; Electricity-\$260,700		FY 2021:	
Water&Sewer-\$0; Electricity-\$0		FY 2022:	
Water&Sewer-\$0; Electricity-\$0		FY 2023:	
FUNDINGS for the roads will be \$750,000 from a state Grant; The balance will be from loans. All other funds will come from grants(to be determined) or loans,			
CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN	
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	\$1,740,740
FY 2018-19	\$4,316,000	PURCHASE	
FY 2019-20	\$1,920,000		
FY 2020-21	\$3,446,750	CONSTRUCTION	
FY 2021-22	\$1,920,000		\$9,862,010
FY 2022-23	\$0	MISCELLANEOUS	
FUTURE YEARS			
TOTAL	\$11,602,750		
		OTHER:	
		OTHER:	
		OTHER:	
		TOTAL	\$11,602,750

DESCRIPTION OF SOURCE ESTIMATE: In house estimates from experts in each department that have experience with similar development. These were augmented with with estimates from O'Brian/Atkins Associates, PA; Chambers Engineering, and the NCDOT where appropriate.

REQUESTED BY: Mark Donham
Department Head

DATE: 1/8/2018



CITY OF ALBEMARLE
 CAPITAL PROJECT CHART
 FY 2019-2023



DEPARTMENT: FIRE
 FUND: General Fund

REQUEST	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE
Replace Ladder 11	\$320,000	\$320,000	\$320,000	\$320,000	\$320,000	
Deputy Chief Vehicle		\$70,000				
SCBA Upgrade		\$60,000	\$60,000	\$60,000	\$60,000	\$60,000
Relocate Ladder 11				\$500,000		
Replace Fire Station 2						\$6,000,000
Rescue Apparatus						\$750,000
TOTALS	\$320,000	\$450,000	\$380,000	\$880,000	\$380,000	\$6,810,000

Shawn Oke
 Department Head

DATE: 11/20/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: FIRE
Fund: General Fund

PROJECT TITLE: Replace Ladder 11	PRIORITY:	1
PURPOSE: Renovate/Replace		
PROJECT DESCRIPTION		
This apparatus will be a ladder truck or tower ladder with a minimum aerial height of 95 feet. This apparatus will carry specialized equipment to perform operations typically carried out on the fireground by a ladder company.		
JUSTIFICATION		
This apparatus will replace Ladder 11 which will be 19 years old which is four years longer than we typically keep a piece of apparatus on first line response. The new apparatus will carry a full complement of ground ladders, which the current ladder doesn't. The additional height of the new apparatus will allow us to reach the top of the new Pfeiffer educational building which our current ladder won't do. The new apparatus will have a bucket at the tip of the ladder to allow for faster and safer evacuation of victims in the event a rescue is needed. The increased size in the apparatus and new equipment should fit the needs of the city for the next 15 years.		

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 320,000	PURCHASE		
FY 2019-20	\$ 320,000			
FY 2020-21	\$ 320,000	CONSTRUCTION		
FY 2021-22	\$ 320,000			
FY 2022-2023	\$ 320,000	MISCELLANEOUS		
FUTURE YEARS				
TOTAL	\$ 1,600,000	OTHER: Finance	\$1,600,000	LEASE PURCHASE
		OTHER:		
		OTHER:		
		TOTAL	\$1,600,000	

DESCRIPTION OF SOURCE ESTIMATE: Cost estimate is from manufactures of apparatus that we are examining for purchase

REQUESTED BY: Shawn A. Oke
Department Head

DATE: 11/20/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: FIRE
Fund: General Fund

PROJECT TITLE: Deputy Chief Vehicle	PRIORITY:	2
PURPOSE: Expand		
PROJECT DESCRIPTION		
Over the past several years I have submitted the position of deputy fire chief in the budget. If the position is funded the deputy chief will need a staff vehicle to utilize for their response and responsibilities.		
JUSTIFICATION		
The deputy fire chief will be utilized for emergency response to assist with incident command. In the event of a disaster or major emergency the deputy fire chief would be placed in service to assist with response and managing incidents. In order to effectively respond the deputy fire chief would need a vehicle that is properly equipped to respond to emergencies.		

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE	\$70,000	CURRENT REVENUE
FY 2019-20	\$70,000			
FY 2020-21		CONSTRUCTION		
FY 2021-22				
FY 2022-2023		MISCELLANEOUS		
FUTURE YEARS				
TOTAL	\$ 70,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	70,000

DESCRIPTION OF SOURCE ESTIMATE: Current vehicle cost estimates

REQUESTED BY: Shawn A Oke
Department Head

DATE: 20-Nov-17



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: FIRE
Fund: General Fund

PROJECT TITLE: SCBA Upgrade	PRIORITY:	3
PURPOSE: Mandated		
PROJECT DESCRIPTION		
Replace Self Contained Breathing Apparatus (SCBA) bottles and SCBA units.		
JUSTIFICATION		
Our Self Contained Breathing Apparatus (SCBA) bottles will have to be replaced prior to 2019 due to reaching the end of their useable life. Our SCBA units will be two NFPA standard cycles old. It is standard practice in the fire service to replace or upgrade your SCBA after being more than two NFPA cycles old.		

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19				
FY 2019-20	\$ 60,000	PURCHASE	\$ 300,000	LEASE PURCHASE
FY 2020-21	\$ 60,000			
FY 2021-22	\$ 60,000	CONSTRUCTION		
FY 2022-2023	\$ 60,000			
FUTURE YEARS	\$ 60,000	MISCELLANEOUS		
TOTAL	\$ 300,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$ 300,000	

DESCRIPTION OF SOURCE ESTIMATE: Current market price

REQUESTED BY: Shawn A. Oke
Department Head

DATE: 11/20/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: FIRE
Fund: General Fund

PROJECT TITLE: Relocate Ladder 11	PRIORITY:	4
PURPOSE: Renovate/Replace		
PROJECT DESCRIPTION		
Renovate former Fire Station One and relocate the ladder company from the current Fire Station One to the new Fire Station One. The current Fire Station One would become Fire Station Four.		
JUSTIFICATION		
Insurance Services Organization (ISO) calls for aerial ladder placement to be within three miles of the city. The old Fire Station One is a central location in the city to provide better distribution of the ladder company, increasing our ISO credit. The area in the vicinity of the old fire station is on the outer boundaries of the current fire districts causing response delays to the area. Relocation to the old Fire Station One would provide the best cost effective solution to the two above problems. The relocation would also provide quicker protection to the downtown business district. The need for a fire apparatus, especially a ladder company is going to continue to grow with the addition of the Pfeiffer campus and additional living units in the downtown area. The postponed fire station location study would be conducted prior to this project moving forward to determine if the ladder company should be relocated to the old fire station.		

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN			
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	Unknown		
FY 2018-19		PURCHASE			
FY 2019-20					
FY 2020-21		CONSTRUCTION	align="center">\$500,000	LEASE PURCHASE	
FY 2021-22	\$500,000				
FY 2022-2023		MISCELLANEOUS			
FUTURE YEARS					
TOTAL	\$ 500,000		OTHER:		
			OTHER:		
		OTHER:			
		TOTAL	\$	500,000	

DESCRIPTION OF SOURCE ESTIMATE: Estimate is very rough. In order to get an accurate estimate would take a great deal of staff time. The amount needed is subject to change based on construction costs when the project is funded.

REQUESTED BY: Shawn A. Oke
Department Head

DATE: 11/20/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: FIRE
Fund: General Fund

PROJECT TITLE: Replace Fire Station 2	PRIORITY:	5
PURPOSE: Renovate/Replace		
PROJECT DESCRIPTION		
Renovate or replace Fire Station 2		
JUSTIFICATION		
The current Fire Station Two is in major disrepair and in need of replacement. The current station design will not allow for our new fire apparatus to fit in bay. The current station does not meet current safety codes for fire sprinklers and vehicle exhaust removal. There is a possibility of doing a renovation of the current station. That possibility will be explored when the postponed fire station location study is conducted.		

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	\$500,000	LEASE PURCHASE
FY 2018-19		PURCHASE	\$500,000	LEASE PURCHASE
FY 2019-20				
FY 2020-21		CONSTRUCTION	\$4,500,000	LEASE PURCHASE
FY 2021-22				
FY 2022-2023		MISCELLANEOUS	\$500,000	LEASE PURCHASE
FUTURE YEARS	\$6,000,000			
TOTAL	\$ 6,000,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$6,000,000	

DESCRIPTION OF SOURCE ESTIMATE: Estimate comes from current fire station construction costs and consideration for costs when the project is funded in four years.

REQUESTED BY: Shawn A. Oke
Department Head

DATE: 11/20/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: FIRE
Fund: General Fund

PROJECT TITLE: Rescue Apparatus	PRIORITY:	6
PURPOSE: Expand		
PROJECT DESCRIPTION		
This apparatus will carry specialized equipment to allow the department to perform specialized rescues such as vehicle extrication, confined space, high angle and water.		
JUSTIFICATION		
Specialized rescue services are currently being provided by Stanly County Rescue. This organization has seen a major decline in volunteers and their ability to provide rescue services has greatly suffered. Our department has also seen an increased need for these services, especially vehicle accident rescues. In order to assure the citizens of Albemarle are properly protected from specialized rescue situations this apparatus and equipment is needed. This request would become an urgent need in the event Stanly County Rescue stops providing services.		

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19				
FY 2019-20		PURCHASE	\$600,000	LEASE PURCHASE
FY 2020-21				
FY 2021-22		CONSTRUCTION		
FY 2022-2023				
FUTURE YEARS	\$750,000	MISCELLANEOUS		
TOTAL	\$ 750,000	OTHER: Equipment	\$150,000	LEASE PURCHASE
		OTHER:		
		OTHER:		
		TOTAL	\$	750,000

DESCRIPTION OF SOURCE ESTIMATE: Current apparatus pricing

REQUESTED BY: Shawn A. Oke
Department Head

DATE: 11/20/2017



CITY OF ALBEMARLE
CAPITAL PROJECT CHART
FY 2019-2023



DEPARTMENT: INFORMATION SYSTEMS
FUND: General Fund

REQUEST	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE
City-wide phone system	\$ 48,000	\$ 48,000	\$ 44,000			\$ 40,000
EMail, MS Office desktop applications, services	\$ 68,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	
Network Infrastructure	\$ 110,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	
Storage Systems	\$ 75,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 25,000
Access-Control Upgrade	\$ 48,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000
Council Chambers Cameras, Control System	\$ 56,000	\$ 9,000	\$ 9,000	\$ 9,000	\$ 9,000	\$ 9,000
TOTALS	\$ 405,000	\$ 215,000	\$ 211,000	\$ 167,000	\$ 167,000	\$ 78,000

REQUESTED BY: Owen Squires
Department Head

DATE: 12/28/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: INFORMATION SYSTEMS
Fund: General Fund**

PROJECT TITLE: City-wide phone system		PRIORITY:	1
PURPOSE: Mandated			
PROJECT DESCRIPTION			
Continuation of operating lease for phone & communication system with support & maintenance			
JUSTIFICATION			
Starting FY 18/19 we will have begun year three of a five year operating lease for desk phone & communication services. The lease includes both support and maintenance on the software and equipment. During FY 2020-21 we will need to plan on what to do for future years. The lease is structured as a FMV buyout.			
CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN	
COMMITTED PRIOR TO FY 17-18	\$ 100,000	PLANNING, DESIGN, AND ENGINEERING	
FY 2018-19	\$ 48,000		
FY 2019-20	\$ 48,000	PURCHASE	
FY 2020-21	\$ 44,000		
FY 2021-22		CONSTRUCTION	
FY 2022-23			
FUTURE YEARS	\$ 40,000	MISCELLANEOUS	
TOTAL	\$ 280,000	OTHER: Operating Lease	\$ 280,000
			Lease Purchase
		OTHER:	
		OTHER:	
		TOTAL	\$ 280,000.00

DESCRIPTION OF SOURCE ESTIMATE: In June of 2018 we will begin year three of a five year operating lease, that has a FMV end-of-lease buyout option.

REQUESTED BY: Owen Squires
Department Head

DATE: 12/28/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: INFORMATION SYSTEMS
Fund: General Fund**

PROJECT TITLE: EMail, MS Office desktop applications, services	PRIORITY:	2
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PURPOSE: Mandated

PROJECT DESCRIPTION

Provide Email and MS Office productivity applications for relevant city staff

JUSTIFICATION

Our Email system is currently on-premise using licenses purchased in 2010. That email (server) software now has significant compatibility issues with other agencies and the growth of staff mailboxes has become a constant challenge mitigating operational readiness with technology stability needs. The intent is to migrate the on-premise email server system to an online MS Office 365 environment but maintain compatibility with our city-wide enterprise applications and services. In addition migrating our licensing to MS Office 365 also will include access to the current desktop applications and related communication services. Our existing and on-going enterprise applications also require that we migrate applications from the current server 2008 to server version 2016 or newer.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18	\$ 44,000	PLANNING, DESIGN, AND ENGINEERING	\$ 34,000	Lease Purchase
FY 2018-19	\$ 68,000	PURCHASE	\$ 294,000	Lease Purchase
FY 2019-20	\$ 54,000			
FY 2020-21	\$ 54,000	CONSTRUCTION		
FY 2021-22	\$ 54,000			
FY 2022-23	\$ 54,000			
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 328,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	328,000

DESCRIPTION OF SOURCE ESTIMATE: Comparison between state contract pricing and vendor's proposed support & services.

REQUESTED BY: Owen Squires
Department Head

DATE: 12/28/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: INFORMATION SYSTEMS
Fund: General Fund**

PROJECT TITLE: Network Infrastructure		PRIORITY:	3
PURPOSE: Renovate/Replace			
PROJECT DESCRIPTION			
Both our wired (phone and computer) and wireless infrastructure is significantly outdated			
JUSTIFICATION			
As more systems and services become both interdependent, and dependant upon Internet access, our edge network (connections for phones, computers, and other devices) is becoming critical. And with the almost complete implementation of our App Store (Virtual Desktop) environment day-to-day operations require network access. We have completed the upgrade of the network "core" components; these components are what manage & maintain connectivity to our application servers and Internet connections. The challenge for services, and for staff depending on those services, is to provide consistent access. Replacing one switch or wireless access point as it fails makes the use of the network more complicated for staff. The intent is to replace both the wired and wireless edge network with a seamless connectivity infrastructure.			
CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN	
COMMITTED PRIOR TO FY 17-18	\$ 15,000	PLANNING, DESIGN, AND ENGINEERING	\$ 30,000
FY 2018-19	\$ 110,000		Current Revenue
FY 2019-20	\$ 60,000	PURCHASE	\$ 250,000
FY 2020-21	\$ 60,000		Finance Options
FY 2021-22	\$ 60,000	CONSTRUCTION	\$ 20,000
FY 2022-23	\$ 60,000		Current Revenue
FUTURE YEARS		MISCELLANEOUS	
TOTAL	\$ 365,000	OTHER:	\$ 65,000
			Finance Options
		OTHER:	
		OTHER:	
		TOTAL	\$ 365,000

DESCRIPTION OF SOURCE ESTIMATE: Quotes from vendors and comparisons with state-wide contracts. Also looking into how we can manage and combine Storage Requirements (priority #4) with Infrastructure Requirements.

REQUESTED BY: Owen Squires
Department Head

DATE: 12/28/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: INFORMATION SYSTEMS
Fund: General Fund**

PROJECT TITLE: Storage systems	PRIORITY:	4
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PURPOSE: Mandated

PROJECT DESCRIPTION

Reliable and high-speed storage for on-premises applications and services

JUSTIFICATION

We have juggled the delivery of reliable and high-speed storage for our enterprise application services and departmental, end-user storage for many years. As we work towards a COOP model including off-site disaster recovery we will still - for many years - require on-site storage to be able to sustain both our interdependent enterprise applications and departmental, end-user access to storage. By combining the storage requirements of our enterprise-wide application services, our departmental, end-user storage, and our virtual desktop storage requirements, it provides a consistent approach and is our first major step towards a sustainable COOP/BCP model. A surprise to both myself and our vendor that we purchased our current tier 1 storage system (lease/purchased in November of 2013) came in the announcement that the system will be end-of-lived in 2019. Since then my research has focused on solutions that provide a minimum five-year development guarantee and a written guarantee that the system will be supported/maintained for an additional five years. These numbers reflect that research.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	\$ 10,000	Current Revenue
FY 2018-19	\$ 75,000	PURCHASE	\$ 200,000	Finance Options
FY 2019-20	\$ 40,000			
FY 2020-21	\$ 40,000	CONSTRUCTION	\$ 25,000	Current Revenue
FY 2021-22	\$ 40,000			
FY 2022-23	\$ 40,000	MISCELLANEOUS		
FUTURE YEARS	\$ 25,000			
TOTAL	\$ 260,000			
		OTHER:	\$ 25,000	Finance Options
		OTHER:		
		OTHER:		
		TOTAL	\$	260,000

DESCRIPTION OF SOURCE ESTIMATE: Quotes from vendors and comparisons with state-wide contracts. Also looking into how we can manage and combine our Network Infrastructure (priority #3) with Storage Requirements.

REQUESTED BY: Owen Squires
Department Head

DATE: 12/28/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: INFORMATION SYSTEMS

Fund: General Fund

PROJECT TITLE: City Hall Access-Control upfit	PRIORITY:	5
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PURPOSE: Expand

PROJECT DESCRIPTION

Integrate and upgrade the current access-control system for interior doors with the city-wide Paxton system

JUSTIFICATION

We are currently using an “end-of-life” system to manage door access for City Hall interior doors. The external doors at City Hall have been migrated to a system that records video for each access to those doors. We have also identified issues with security for our Collections and Customer service areas. The panic-buttons in use throughout City Hall are operationally deficient as well. This will replace and integrate all of the City Hall doors into the same system now used by Niven Center, The Landfill, The Warehouse gate. This also provides the foundation for implementing a panic button system, and motion/security system, that effectively communicates with police and external staff.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18	\$ 20,000	PLANNING, DESIGN, AND ENGINEERING	\$ 5,000	Current Revenue
FY 2018-19	\$ 48,000	PURCHASE	\$ 38,000	Current Revenue
FY 2019-20	\$ 4,000			
FY 2020-21	\$ 4,000	CONSTRUCTION	\$ 25,000	Current Revenue
FY 2021-22	\$ 4,000			
FY 2022-23	\$ 4,000	MISCELLANEOUS		
FUTURE YEARS	\$ 4,000			
TOTAL	\$ 88,000			
		OTHER:	\$ 20,000	Current Revenue
		OTHER:		
		OTHER:		
		TOTAL	\$	88,000

DESCRIPTION OF SOURCE ESTIMATE: A refresh on an estimage and several recent conversations with security vendors confirm our earlier estimages are still valid.

REQUESTED BY: Owen Squires
Department Head

DATE: 12/28/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: INFORMATION SYSTEMS

Fund: General Fund

PROJECT TITLE: Council Chambers Cameras, Control System	PRIORITY:	6
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PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Replace low resolution cameras in Council Chambers and begin preparations to be able to stream meetings online

JUSTIFICATION

The current camera & control system in City Hall Council Chambers uses low-resolution standard definition cameras. This system will upgrade the cameras and recording system to be high-definition but will leave in place the analog audio and respective controls.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	\$ 12,000	Current Revenue
FY 2018-19	\$ 56,000	PURCHASE	\$ 44,000	Current Revenue
FY 2019-20	\$ 9,000			
FY 2020-21	\$ 9,000	CONSTRUCTION		
FY 2021-22	\$ 9,000			
FY 2022-23	\$ 9,000			
FUTURE YEARS	\$ 9,000	MISCELLANEOUS		
TOTAL	\$ 101,000	OTHER:	\$ 45,000	Current Revenue
		OTHER:		
		OTHER:		
		TOTAL	\$	101,000

DESCRIPTION OF SOURCE ESTIMATE: The challenge we are facing as the current Council Chambers system gets older is that integrating high-definition video with the current audio is getting more difficult. Soon we will be required to whole-sale replace the entire system at a much higher cost than this. Our current support proposal for FY 17-18 reflected this change as well.

REQUESTED BY: Owen Squires
Department Head

DATE: 12/28/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT CHART
FY 2019-23**



**DEPARTMENT: PARKS AND RECREATION
FUND: General Fund**

REQUEST	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE
Pool Renovations/Improvements	\$ 12,500	\$ 150,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000
Greenway Expansion		\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000
Playground Improvements		\$ 50,000		\$ 50,000		\$ 50,000
Baseball Field/Tennis Court Improvements		\$ 20,000		\$ 15,000	\$ 15,000	\$ 5,000
EE Waddell Center Phase 3	\$ 80,000	\$ 130,000	\$ 25,000	\$ 870,000	\$ 25,000	\$ 50,000
Picnic Shelter Improvements	\$ 7,500	\$ 15,000	\$ 15,000	\$ 15,000		
Wiscasset Mills Athletic Complex	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 1,000,000		\$ 2,000,000
Lighting at Soccer Complex					\$ 125,000	
City Lake Future Phases					\$ 600,000	\$ 600,000
TOTAL	\$ 2,100,000	\$ 2,445,000	\$ 2,155,000	\$ 2,065,000	\$ 880,000	\$ 2,820,000

REQUESTED BY: Lisa Kiser

DATE: 12/28/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PARKS AND RECREATION

Fund: General Fund

PROJECT TITLE: Pool Renovations and Updates	PRIORITY:	1
PURPOSE: Renovate/Replace		
PROJECT DESCRIPTION		
Renovation, updates, safety improvements at Rock Creek and Chuck Morehead Swimming Pools		
JUSTIFICATION		
Rock Creek and Chuck Morehead Pools are aging structures that need improvements. Both pools need the bottom re-plastered. There are significant safety issues around Rock Creek pool that need to be addressed. Both pool houses need to be renovated with new roofs, bathroom hardware, paint, etc. Life guard stands, permanent ADA lift chairs, and diving towers and boards need to be replaced with new, updated equipment.		

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18	36,500	PLANNING, DESIGN, AND ENGINEERING	10,000	CURRENT REVENUE
FY 2018-19	12,500	PURCHASE	70,000	STATE GRANT
FY 2019-20	150,000			
FY 2020-21	35,000	CONSTRUCTION	200,000	STATE GRANT
FY 2021-22	35,000			
FY 2022-23	35,000			
FUTURE YEARS	35,000	MISCELLANEOUS	10,000	CURRENT REVENUE
TOTAL	\$ 339,000	OTHER: Amenities	49,000	STATE GRANT
		OTHER:		
		OTHER:		
		TOTAL	\$	339,000

DESCRIPTION OF SOURCE ESTIMATE: Duffield Aquatics; Southern Pools, Inc.; SR Smith, Inc Pool Suppliers.

REQUESTED BY: Lisa Kiser
Department Head

DATE: 12/28/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PARKS AND RECREATION

Fund: General Fund

PROJECT TITLE: Greenway/Walking Trail Development and Expansion	PRIORITY:	2
PURPOSE: Expand		
PROJECT DESCRIPTION		
Expand existing system of greenways in Albemarle and connect them to sidewalks and other easements to develop		
JUSTIFICATION		
Community wellness, alternative transportation, tourism development, and adherence to pedestrian, bicycle, and trails master plans. By expanding the greenway/trail system throughout the city citizens will become more connected to their community, to services offered, and to each other. Greenways and trails are an important piece of the economic development equation. Businesses and individuals are looking for places with amenities like trails and greenways when relocating.		

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18	\$ 100,000	PLANNING, DESIGN, AND ENGINEERING	\$ 50,000	CURRENT REVENUE
FY 2018-19		PURCHASE	\$ 100,000	LOCAL GRANT
FY 2019-20	\$ 80,000			
FY 2020-21	\$ 80,000	CONSTRUCTION	\$ 300,000	STATE GRANT
FY 2021-22	\$ 80,000			
FY 2022-23	\$ 80,000	MISCELLANEOUS	\$ 50,000	CURRENT REVENUE
FUTURE YEARS	\$ 80,000			
TOTAL	\$ 500,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	500,000

DESCRIPTION OF SOURCE ESTIMATE: Norfolk Southern Railroad, COA Public Works Department, C.K. Earnhardt, Carolina Thread Trail

REQUESTED BY: Lisa Kiser
Department Head

DATE: 12/28/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PARKS AND RECREATION

Fund: General Fund

PROJECT TITLE: Playground/Park Amenities	PRIORITY:	3
PURPOSE: Renovate/Replace		
PROJECT DESCRIPTION		
Periodic updates of playground equipment and amenities at city parks		
JUSTIFICATION		
Playground equipment at many parks is old and outdated. New equipment, safety surfacing, and amenities will enhance the appearance, attract participants, and increase safety.		

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	\$ 7,500	CURRENT REVENUE
FY 2018-19		PURCHASE	\$ 132,500	STATE GRANT
FY 2019-20	\$ 50,000			
FY 2020-21		CONSTRUCTION	\$ 10,000	CURRENT REVENUE
FY 2021-22	\$ 50,000			
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS	\$ 50,000			
TOTAL	\$ 150,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	150,000

DESCRIPTION OF SOURCE ESTIMATE: Playworld, Inc.; Kaboom; Playful City USA; various playground equipment distributors.

REQUESTED BY: Lisa Kiser
Department Head

DATE: 12/28/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PARKS AND RECREATION

Fund: General Fund

PROJECT TITLE: Don Montgomery Field & Tennis Court Repair	PRIORITY:	4
PURPOSE: Renovate/Replace		
PROJECT DESCRIPTION		
Repair tennis courts at Rock Creek Park. Make improvements to backstop at Don Montgomery Field		
JUSTIFICATION		
Tennis courts need routine surface maintenance to maintain safe and playable condition and avoid accelerated deterioration. The back stop at Don Montgomery is need of repair/improvements. By updating the backstop, we will improve sight lines for the field of play, eliminate cars being hit by foul balls on Hwy 52, and attract tournaments to use the field. In addition to the backstop improvements, a picnic shelter with a nice playground and restrooms would provide revenue from March through November.		

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18	\$ 152,000	PLANNING, DESIGN, AND ENGINEERING	\$ 7,500	CURRENT REVENUE
FY 2018-19				
FY 2019-20	\$ 20,000	PURCHASE	\$ 35,000	CURRENT REVENUE
FY 2020-21				
FY 2021-22	\$ 15,000	CONSTRUCTION	\$ 159,500	CURRENT REVENUE
FY 2022-23	\$ 15,000			
FUTURE YEARS	\$ 5,000	MISCELLANEOUS	\$ 5,000	CURRENT REVENUE
TOTAL	\$ 207,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	207,000

DESCRIPTION OF SOURCE ESTIMATE: Chambers Engineering; Beacon Athletics; Various Athletic equipment distributors; Court One

REQUESTED BY: Lisa Kiser
Department Head

DATE: 12/28/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PARKS AND RECREATION

Fund: General Fund

PROJECT TITLE: E.E. Waddell Community Center Phase 3 Renovations	PRIORITY:	5
PURPOSE: Renovate/Replace		
PROJECT DESCRIPTION		
Third phase of renovations to the EE Waddell Community Center as identified in the 2008 EEWC Master Plan		
JUSTIFICATION		
Phases 1 and 2 of the project were completed in 2008. Windows, paint, and flooring have been replaced in the gymnasium. Additional funding needed for weight room, gutters, roof, security lighting, bathrooms, and parking lot.		

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18	\$ 1,000,000	PLANNING, DESIGN, AND ENGINEERING	\$ 125,000	CURRENT REVENUE
FY 2018-19	\$ 80,000	PURCHASE	\$ 150,000	STATE GRANT
FY 2019-20	\$ 130,000			
FY 2020-21	\$ 25,000	CONSTRUCTION	\$ 1,515,000	STATE GRANT
FY 2021-22	\$ 870,000			
FY 2022-23	\$ 25,000			
FUTURE YEARS	\$ 50,000	MISCELLANEOUS	\$ 390,000	STATE GRANT
TOTAL	\$ 2,180,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$ 2,180,000	

DESCRIPTION OF SOURCE ESTIMATE: Cost estimates from 2008 EEWC Master Plan and Phasing summary

REQUESTED BY: Lisa Kiser
Department Head

DATE: 12/28/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PARKS AND RECREATION
Fund: General Fund**

PROJECT TITLE: Picnic Shelter Improvements	PRIORITY:	6
PURPOSE: Renovate/Replace		
PROJECT DESCRIPTION		
Make improvements to the roofs and add restrooms to all picnic shelters.		
JUSTIFICATION		
By adding restrooms and making improvements to the picnic shelters located in COA parks, fees can be increased and more revenue can be collected. These improvements will also allow the restrooms at both Morehead pool and Rock Creek ball field to be closed when not in use.		

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	\$ 2,500	CURRENT REVENUE
FY 2018-19		PURCHASE	\$ 10,000	CURRENT REVENUE
FY 2019-20	\$ 15,000			
FY 2020-21	\$ 15,000	CONSTRUCTION	\$ 27,500	CURRENT REVENUE
FY 2021-22	\$ 15,000			
FY 2022-23		MISCELLANEOUS	\$ 5,000	CURRENT REVENUE
FUTURE YEARS				
TOTAL	\$ 45,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	45,000

DESCRIPTION OF SOURCE ESTIMATE: Chambers Engineering; Lowe's Home Improvements.

REQUESTED BY: Lisa Kiser
Department Head

DATE: 12/28/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PARKS AND RECREATION
Fund: General Fund**

PROJECT TITLE: Wiscassett Mills Athletic Complex	PRIORITY:	7
PURPOSE: Expand		
PROJECT DESCRIPTION		
Construction of a district park including multiple athletic fields, walking trails, picnic areas, skate park,		
JUSTIFICATION		
Development of such a facility was noted as a high priority in both the 1999 and 2010 Stanly County Parks and Recreation Master Plans. This facility would provide positive economic impact to the city via hosting tournaments and other special events.		

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18	\$ 2,650,000	PLANNING, DESIGN, AND ENGINEERING	\$ 1,200,000	CURRENT REVENUE
FY 2018-19	\$ 2,000,000	PURCHASE		
FY 2019-20	\$ 2,000,000			
FY 2020-21	\$ 2,000,000	CONSTRUCTION	\$ 9,650,000	OTHER
FY 2021-22	\$ 1,000,000			
FY 2022-23		MISCELLANEOUS	\$ 800,000	STATE GRANT
FUTURE YEARS	\$ 2,000,000			
TOTAL	\$ 11,650,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$ 11,650,000	

DESCRIPTION OF SOURCE ESTIMATE: Benesch/Site Solutions 2014-2015

REQUESTED BY: Lisa Kiser
Department Head

DATE: 12/28/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PARKS AND RECREATION

Fund: General Fund

PROJECT TITLE: Lighting at Albemarle Soccer Complex	PRIORITY:	8
PURPOSE: Expand		
PROJECT DESCRIPTION		
Lighting at fields at Albemarle Soccer Complex		
JUSTIFICATION		
Lighting of fields will provide expanded opportunities for local participants and will enable expanded use of soccer fields, providing a positive economic impact for the community when used for tournaments and special events.		

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE	\$ 100,000	CURRENT REVENUE
FY 2019-20				
FY 2020-21		CONSTRUCTION	\$ 25,000	CURRENT REVENUE
FY 2021-22				
FY 2022-23	\$ 125,000	MISCELLANEOUS		
FUTURE YEARS				
TOTAL	\$ 125,000		OTHER:	
		OTHER:		
		OTHER:		
		TOTAL	\$	125,000

DESCRIPTION OF SOURCE ESTIMATE: Public Utilities Department - Electric Division; lighting distributor

REQUESTED BY: Lisa Kiser
Department Head

DATE: 12/28/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-23**



**Department: PARKS AND RECREATION
Fund: General Fund**

PROJECT TITLE: City Lake Park Future Phases	PRIORITY:	9
PURPOSE: Expand		
PROJECT DESCRIPTION		
Implementation of Phase 3 construction at City Lake Park		
JUSTIFICATION		
Improve and expand facilities at City Lake Park to include additional trails, shelters, and amenities		

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18	\$ 1,000,000	PLANNING, DESIGN, AND ENGINEERING	\$ 330,000	CURRENT REVENUE
FY 2018-19		PURCHASE		
FY 2019-20				
FY 2020-21				
FY 2021-22		CONSTRUCTION	\$ 870,000	STATE GRANT
FY 2022-23	\$ 600,000	MISCELLANEOUS	\$ 1,000,000	STATE GRANT
FUTURE YEARS	\$ 600,000			
TOTAL	\$ 2,200,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	2,200,000

DESCRIPTION OF SOURCE ESTIMATE: Based on cost of City Lake Park phases 1 and 2

REQUESTED BY: Lisa Kiser
Department Head

DATE: 12/28/2017



CITY OF ALBEMARLE
CAPITAL PROJECT CHART
FY 2019-2023



DEPARTMENT: POLICE
FUND: General Fund

REQUEST	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE
New Building	\$ 600,000.00	\$ 600,000.00	\$ 600,000.00	\$ 600,000.00	\$ 600,000.00	
TOTAL	\$ 600,000.00	\$ 600,000.00	\$ 600,000.00	\$ 600,000.00	\$ 600,000.00	

REQUESTED BY: R. D. Bowen
Department Head

DATE: 12/21/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: POLICE
Fund: General Fund

PROJECT TITLE: New Police Facility **PRIORITY:** 1

PURPOSE: Expand

PROJECT DESCRIPTION

Renovate and upfit building purchased for new police headquarters

JUSTIFICATION

The Albemarle Police Department is located in a repurposed building that was originally the US Post Office in before the 1950's. The number of officers employed has increased substantially since that acquisition and the building is too small to accommodate personnel, equipment, and the growing technology needed by the Police Department. The Evidence area is at capacity and expansion is need is this area very soon.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18	625,000	PLANNING, DESIGN, AND ENGINEERING	200,000	LEASE PURCHASE
FY 2018-19	600,000	PURCHASE	625,000	LEASE PURCHASE
FY 2019-20	600,000			
FY 2020-21	600,000	CONSTRUCTION	2,500,000	LEASE PURCHASE
FY 2021-22	600,000			
FY 2022-23	600,000			
FUTURE YEARS		MISCELLANEOUS	300,000	LEASE PURCHASE
TOTAL	\$ 3,625,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	3,625,000

DESCRIPTION OF SOURCE ESTIMATE: Creech and Associates, Architect and Edifice, CMAR

REQUESTED BY: R. D. Bowen
Department Head

DATE: 12/22/2017

**CITY OF ALBEMARLE
CAPITAL PROJECT CHART
FY 2019-2023**

DEPARTMENT: PUBLIC WORKS
FUND: General Fund

REQUEST	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE
Pavement Mgmt Plan	\$ 350,000	\$ 450,000	\$ 550,000	\$ 650,000	\$ 750,000	\$ 750,000
Street Equipment Storage Building	\$ 300,000					
Fleet Maintenance Facility	\$ 823,500	\$ 103,500	\$ 103,500	\$ 103,500	\$ 103,500	
Street Sweeper	\$ 65,000	\$ 65,000	\$ 65,000	\$ 65,000	\$ 65,000	
Skid Steer w/Attachments	\$ 13,200	\$ 13,200	\$ 13,200	\$ 13,200	\$ 13,200	
Single Axle Dump Truck	\$ 21,600	\$ 21,600	\$ 21,600	\$ 21,600	\$ 21,600	
Street Vacuum Truck		\$ 97,200	\$ 97,200	\$ 97,200	\$ 97,200	\$ 97,200
Single Axle Dump Truck w/Snow Plow Accessories		\$ 120,000				
Right-of-Way Mower			\$ 80,000			
Dbl Axle Dump Truck			\$ 37,800	\$ 37,800	\$ 75,600	\$ 113,400
Single Axle Dump Truck				\$ 108,000		
TOTAL	\$ 1,573,300	\$ 870,500	\$ 968,300	\$ 1,096,300	\$ 1,126,100	\$ 960,600

REQUESTED BY: Ross Holshouser

Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC WORKS
Fund: General Fund

PROJECT TITLE: Pavement Management Plan **PRIORITY:** 1

PURPOSE: Mandated

PROJECT DESCRIPTION

Continued maintenance and improvements to our streets infrastructure

JUSTIFICATION

Our street infrastructure (which includes curbing and sidewalks) is one of the City's most valuable assets. Adequate funding is necessary to maintain our current pavement condition index of 66. The pavement condition assessment conducted two years ago concluded that \$1,000,000 was needed annually to maintain this rating, but this amount of funding, as of yet, has not been approved. An optimum rating to strive for is 75 and would require funding in excess of \$1M. With an annual disbursement from the State of Powell Bill funds of approximately \$500,000 the majority of the remaining needed funding will have to be budgeted through the GF. A request of \$350,000 for FY 2018-19 from the GF with an annual increase of \$100,000 each successive year until \$1M in funding between the GF and PB is achieved.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 350,000	PURCHASE		
FY 2019-20	\$ 450,000			
FY 2020-21	\$ 550,000	CONSTRUCTION		
FY 2021-22	\$ 650,000			
FY 2022-23	\$ 750,000	MISCELLANEOUS	\$ 350,000	
FUTURE YEARS	\$ 750,000			
TOTAL		OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	350,000

DESCRIPTION OF SOURCE ESTIMATE: Pavement Condition Assessment

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC WORKS
Fund: General Fund

PROJECT TITLE: New Street Division Equipment Storage Building **PRIORITY:** 2

PURPOSE: Expand

PROJECT DESCRIPTION

Construct a new enclosed storage facility similar to PU-Electric and PU-W&S to protect valuable equipment and provide a safe area for workers to prepare and service equipment for incimate weather events.

JUSTIFICATION

The Street Division has purchased several new pieces of equipment and plans for other purchases in the future. Storage space is limited at the Operations Center. Seasonal mowing tractors, paving equipment, snow removal salt spreaders and more equipment need to be protected from elements in enclosed space. The life expectancy of this equipment is dependent upon our care and maintenance. Our employees are asked to perform routine maintenance, inspections or preparations in the rain, extreme heat or snowy weather with no place to protect themselves or the equipment. This building will allow us to protect our seasonal equipment, extending its life expectancy and lowering maintenance issues caused by constant exposure to the elements. FYI: If a Fleet Maintenance Facility was funded, the old Fleet Maintenance Garage would be repurposed for Street Equipment Storage and this proposed building would not be necessary.stification detail here)

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN			
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING			
FY 2018-19	\$ 300,000	PURCHASE			
FY 2019-20					
FY 2020-21					
FY 2021-22		CONSTRUCTION	\$ 300,000		
FY 2022-23		MISCELLANEOUS			
FUTURE YEARS					
TOTAL	\$ 300,000		OTHER:		
			OTHER:		
		OTHER:			
		TOTAL	\$	300,000	

DESCRIPTION OF SOURCE ESTIMATE: Contractor Estimate

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26//2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC WORKS
Fund: General Fund

PROJECT TITLE: New Fleet Maintenance Facility **PRIORITY:** 3

PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Design and construct a new Fleet Maintenance Facility

JUSTIFICATION

The current shop is inadequate in the number of bays and the size of the bays. Large equipment must be repaired outside. There is no room for a small tool room or workshop area for welding and grinding and no area for parts inventory storage. The current building does not meet OSHA standards for a fleet repair shop.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 823,500	PURCHASE	\$ 495,000	LEASE PURCHASE
FY 2019-20	\$ 103,500			
FY 2020-21	\$ 103,500	CONSTRUCTION		
FY 2021-22	\$ 103,500			
FY 2022-23	\$ 103,500			
FUTURE YEARS		OTHER:	\$ 247,000	OTHER
TOTAL	\$ 1,237,500	OTHER:	\$ 309,375	OTHER
		OTHER:	\$ 123,750	OTHER
		OTHER:	\$ 61,875	OTHER
		TOTAL	\$	1,237,500

DESCRIPTION OF SOURCE ESTIMATE: Estimated Cost based on previous projects. Estimated cost of \$1.2 M would be 40% GF FINANCED at 3% for 59 months. Enterprise funds would be based on current percentages of PU-W&S at 20% (\$247,000), PU-Elec at 25% (\$309,375), PW-Landfill at 10% (\$123,750) and Public Housing at 5% (\$61,875) and paid out in full in year One.

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC WORKS
Fund: General Fund

PROJECT TITLE: Replace Street Sweeper		PRIORITY:	4
PURPOSE: Renovate/Replace			
PROJECT DESCRIPTION			
Purchase a new street sweeper			
JUSTIFICATION			
Our current street sweeper is a 2009 Elgin Whirlwind Street Sweeper. This has been a very good unit but repairs this FY have been extensive. Street sweeping is a very important part of our street cleaning and storm drain maintenance activities. We also are contracted to sweep NCDOT streets within our corporate limits. The life expectancy of a sweeper is 10-15 years. We recommend purchase of a new model.			
CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN	
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	
FY 2018-19	\$ 65,000	PURCHASE	\$ 325,000 LEASE PURCHASE
FY 2019-20	\$ 65,000		
FY 2020-21	\$ 65,000		
FY 2021-22	\$ 65,000		
FY 2022-23	\$ 65,000		
FUTURE YEARS		CONSTRUCTION	
TOTAL	\$ 325,000	MISCELLANEOUS	
		OTHER:	
		OTHER:	
		OTHER:	
		TOTAL	\$ 325,000

DESCRIPTION OF SOURCE ESTIMATE: Vendor Quote. **FINANCING:** 59 months at 3% interest.

REQUESTED BY: Ross Hoslhouser
Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC WORKS
Fund: General Fund

PROJECT TITLE: Skid Steer **PRIORITY:** 5

PURPOSE: Expand

PROJECT DESCRIPTION

Purchase new skid steer with attachments

JUSTIFICATION

This multi-use equipment will be invaluable in our street division in a variety of ways. It will be utilized to clip/cut back shoulders on streets, load debris during inclement weather or for snow removal from sidewalks, and move and spread dirt or stone. However, its primary use will be in pavement maintenance. The attachments will provide crews the ability to mill out around potholes to make a nice, clean square cut to place asphalt back in. Crews will be able to use the broom attachment to clean milled asphalt from the area, prior to repair, and reclaim the material for our asphalt recycling program.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 13,200	PURCHASE	\$ 66,000	LEASE PURCHASE
FY 2019-20	\$ 13,200			
FY 2020-21	\$ 13,200	CONSTRUCTION		
FY 2021-22	\$ 13,200			
FY 2022-23	\$ 13,200			
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 66,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	66,000

DESCRIPTION OF SOURCE ESTIMATE: Vendor Estimate. **FINANCING:** 59 months at 3% interest.

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC WORKS
Fund: General Fund

PROJECT TITLE: Single Axle Dump Truck **PRIORITY: 6**

PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Replace Single Axle Dump Truck

JUSTIFICATION

The street division currently has six dump trucks in its fleet that are used to haul asphalt, stone, dirt and illegal dumping. More importantly, these trucks are used during storm events to haul off tree debris and to also plow snow and apply brine solution during winter storms. Out of the six dump trucks in the fleet, two trucks are 27 years old or older. One is 20 years old, with two others being 10 and 13 years old, respectively. The purchase and replacement of our dump trucks over the next two years will allow us to upgrade our fleet and surplus older trucks in our fleet. Wear and tear, along with repairs, are starting to be an issue with the older trucks, and due to the importance of these trucks during emergency events, we cannot afford to have unreliable equipment.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 21,600	PURCHASE	\$ 108,000	
FY 2019-20	\$ 21,600			
FY 2020-21	\$ 21,600			
FY 2021-22	\$ 21,600			
FY 2022-23	\$ 21,600			
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 108,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	108,000

DESCRIPTION OF SOURCE ESTIMATE: Vendor Estimate. **FINANCING:** 59 payments at 3% interest.

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC WORKS
Fund: General Fund

PROJECT TITLE: Street Vacuum Truck **PRIORITY:** 7

PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Replace Street Vacuum Truck

JUSTIFICATION

Our current Vac-All truck is a 2008 model and over \$5000 was spent on repairs in the last 12 months. If we are to continue the same level of service vacuuming non-curb and gutter streets, a new machine will be needed.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19				
FY 2019-20	\$ 97,200	PURCHASE	\$ 486,000	LEASE PURCHASE
FY 2020-21	\$ 97,200			
FY 2021-22	\$ 97,200	CONSTRUCTION		
FY 2022-23	\$ 97,200			
FUTURE YEARS	\$ 97,200	MISCELLANEOUS		
TOTAL	\$ 486,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$ 486,000	

DESCRIPTION OF SOURCE ESTIMATE: Vendor Estimate. **FINANCING:** 59 months at 3% interest.

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC WORKS
Fund: General Fund**

PROJECT TITLE: Single Axle Dump Truck w/Snow Attachments	PRIORITY:	8
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PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Replace and Purchase a new Single Axle Dump Truck w/Snow Attachments

JUSTIFICATION

The street division currently has six dump trucks in its fleet that are used to haul asphalt, stone, dirt and illegal dumping. More importantly, these trucks are used during storm events to haul off tree debris and to also plow snow and apply brine solution during winter storms. Out of the six dump trucks in the fleet, two trucks are 27 years old or older. One is 20 years old, with two others being 10 and 13 years old, respectively. The purchase and replacement of a dump truck with snow removal attachments will allow us to upgrade our fleet and surplus older trucks in our fleet. Wear and tear, along with repairs, are starting to be an issue with the older trucks, and due to the importance of these trucks during emergency events, we cannot afford to have unreliable equipment.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19				
FY 2019-20	\$ 120,000	PURCHASE	\$ 120,000	CURRENT REVENUE
FY 2020-21				
FY 2021-22		CONSTRUCTION		
FY 2022-23				
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 120,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	120,000

DESCRIPTION OF SOURCE ESTIMATE: Vendor Estimate

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC WORKS
Fund: General Fund

PROJECT TITLE: Right-of-Way Mower **PRIORITY:** 9

PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Purchase New Right-of-Way Mower

JUSTIFICATION

The street division is responsible for the maintenance of miles of right-of-way and subdivision entrances. Our two right-of-way mowers are a 2007 and 2015 models. Replacement of the oldest machine will be needed to continue this activity without costly repairs to an old unit.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE	\$ 80,000	CURRENT REVENUE
FY 2019-20				
FY 2020-21	\$ 80,000	CONSTRUCTION		
FY 2021-22		MISCELLANEOUS		
FY 2022-23				
FUTURE YEARS		OTHER:		
TOTAL	\$ 80,000	OTHER:		
		OTHER:		
		TOTAL	\$	80,000

DESCRIPTION OF SOURCE ESTIMATE: Vendor Estimate

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC WORKS
Fund: General Fund

PROJECT TITLE: Tandem Axle Dump Truck **PRIORITY:** 10

PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Purchase of a new Tandem Axle Dump Truck

JUSTIFICATION

The street division uses tandem trucks to haul asphalt, stone, dirt and illegal dumping. More importantly, these trucks are used during storm events to haul off tree debris and to also plow snow and apply brine solution during winter storms. Our oldest models are 21 and 25 years old. The purchase and replacement of a new dump trucks owill allow us to upgrade our fleet and surplus and older truck in our fleet. Wear and tear, along with repairs, are starting to be an issue with the older trucks, and due to the importance of these trucks during emergency events, we cannot afford to have unreliable equipment.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE	\$ 189,000	LEASE PURCHASE
FY 2019-20				
FY 2020-21	\$ 37,800	CONSTRUCTION		
FY 2021-22	\$ 37,800			
FY 2022-23	\$ 75,600			
FUTURE YEARS	\$ 113,400	MISCELLANEOUS		
TOTAL	\$ 189,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	189,000

DESCRIPTION OF SOURCE ESTIMATE: Vendor Estimate. FINANCING: 59 months at 3% interest.

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC WORKS
Fund: General Fund

PROJECT TITLE: Single Axle Dump Truck **PRIORITY:** 11

PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Replace Single Axle Dump Truck

JUSTIFICATION

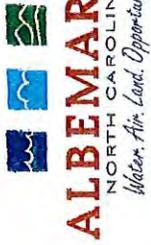
The street division currently has six dump trucks in its fleet that are used to haul asphalt, stone, dirt and illegal dumping. More importantly, these trucks are used during storm events to haul off tree debris and to also plow snow and apply brine solution during winter storms. Out of the six dump trucks in the fleet, two trucks are 27 years old or older. One is 20 years old, with two others being 10 and 13 years old, respectively. The purchase and replacement of our dump trucks over the next two years will allow us to upgrade our fleet and surplus older trucks in our fleet. Wear and tear, along with repairs, are starting to be an issue with the older trucks, and due to the importance of these trucks during emergency events, we cannot afford to have unreliable equipment.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE	\$ 108,000	
FY 2019-20				
FY 2020-21		CONSTRUCTION		
FY 2021-22	\$ 108,000			
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS				
TOTAL	\$ 108,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	108,000

DESCRIPTION OF SOURCE ESTIMATE: Vendor Estimate. FINANCING: 59 payments at 3% interest.

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26/2017



CITY OF ALBEMARLE
CAPITAL PROJECT CHART
FY 2019-2023



DEPARTMENT: PUBLIC WORKS
FUND: Powell Bill

REQUEST	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE
Pavement Management Plan	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
TOTAL	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC WORKS
Fund: Powell Bill**

PROJECT TITLE: Pavement Management Plan		PRIORITY:	1
PURPOSE: Mandated			
PROJECT DESCRIPTION			
Continue maintenance and improvements to our streets infrastructure			
JUSTIFICATION			
Our street infrastructure (which includes curbing and sidewalks) is one of the City's most valuable assets. Adequate funding is necessary to maintain our current pavement condition index of 66. The pavement condition assessment conducted two years ago concluded that \$1,000,000 was needed annually to maintain this rating, but this amount of funding, as of yet, has not been approved. An optimum rating to strive for is 75 and would require funding in excess of \$1M. With an annual disbursement from the State of Powell Bill funds of approximately \$500,000 the majority of the remaining needed funding will have to be budgeted through the GF. A request of \$350,000 for FY 2018-19 from the GF with an annual increase of \$100,000 each successive year until \$1M in funding between the GF and PB is achieved. \$250,000 is the maximum amount of funding possible in the Powell Bill with our limited annual allocation.			
CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN	
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	
FY 2018-19	250,000	PURCHASE	
FY 2019-20	250,000		
FY 2020-21	250,000	CONSTRUCTION	1,500,000
FY 2021-22	250,000		
FY 2022-23	250,000	MISCELLANEOUS	
FUTURE YEARS	250,000		
TOTAL	\$ 1,500,000	OTHER:	
		OTHER:	
		OTHER:	
		TOTAL	\$ 1,500,000

DESCRIPTION OF SOURCE ESTIMATE: Street Maintenance Schedule

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT CHART
FY 2019-2023
PUBLIC HOUSING**



CAPITAL REQUEST	DEPT.	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE	TOTAL
A&E Services	Public Housing	\$ 31,500	\$ 31,500	\$ 31,500	\$ 31,500	\$ 31,500	\$ 31,500	\$ 189,000
Family Life Center	Public Housing	\$ 253,440	\$ 70,000					\$ 323,440
Water Heater Replacement	Public Housing			\$ 150,000				\$ 150,000
Interior Door Replacement	Public Housing			\$ 72,940	\$ 203,440			\$ 276,380
Exterior Door Replacement	Public Housing					\$ 269,400	\$ 130,600	\$ 400,000
General Landscaping	Public Housing						\$ 100,000	\$ 100,000
TOTALS		\$ 284,940	\$ 101,500	\$ 254,440	\$ 234,940	\$ 300,900	\$ 262,100	\$1,438,820



CITY OF ALBEMARLE
CAPITAL PROJECT CHART
FY 2019-2023



DEPARTMENT: PUBLIC HOUSING
FUND: Public Housing

REQUEST	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE
A&E Services	\$ 31,500.00	\$ 31,500.00	\$ 31,500.00	\$ 31,500.00	\$ 31,500.00	\$ 31,500.00
Family Life Center	\$ 253,440.00	\$ 70,000.00				
Water Heater Replacement			\$ 150,000.00			
Interior Door Replacement			\$ 72,940.00	\$ 203,440.00		
Exterior Door Replacement					\$ 269,400.00	\$ 130,600.00
General Landscaping						\$ 100,000.00
TOTALS	\$ 284,940.00	\$ 101,500.00	\$ 254,440.00	\$ 234,940.00	\$ 300,900.00	\$ 262,100.00

REQUESTED BY: Cedric Baldwin DATE: 11/20/2017
Department Head



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC HOUSING
Fund: Public Housing**

PROJECT TITLE: Architecture and Engineering Services	PRIORITY:	
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PURPOSE: Mandated

PROJECT DESCRIPTION

Architecture Services

JUSTIFICATION

For preparation of contracts, plans specifications, construction inspections, and HUD reports

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18	\$ 31,500	PLANNING, DESIGN, AND ENGINEERING	\$ 220,500	OTHER
FY 2018-19	\$ 31,500	PURCHASE		
FY 2019-20	\$ 31,500			
FY 2020-21	\$ 31,500	CONSTRUCTION		
FY 2021-22	\$ 31,500			
FY 2022-23	\$ 31,500	MISCELLANEOUS		
FUTURE YEARS	\$ 31,500			
TOTAL	\$ 220,500	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	220,500

DESCRIPTION OF SOURCE ESTIMATE: Stogner Architecture PA, Rockingham, NC

REQUESTED BY: Cedric Baldwin
Department Head

DATE: 11/20/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC HOUSING

Fund: Public Housing

PROJECT TITLE: Family Life Center Improvements		PRIORITY:		2
PURPOSE: Replace				
PROJECT DESCRIPTION				
Modernize Family Life Center in Amhurst Gardens				
JUSTIFICATION				
Construct new building to be used for computer lab with new computers and printers, resident meetings, resident self-sufficiency activities, boy/girl scouts, resident training opportunities.				
CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18	\$ 193,440	PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 253,440	PURCHASE		
FY 2019-20	\$ 70,000			
FY 2020-21		CONSTRUCTION	\$ 516,880	OTHER
FY 2021-22				
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS				
TOTAL	\$ 516,880	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	516,880

DESCRIPTION OF SOURCE ESTIMATE: National Facility Consultants, Inc. Marietta, GA

REQUESTED BY: Cedric Baldwin
Department Head

DATE: 11/20/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC HOUSING

Fund: Public Housing

PROJECT TITLE: Water Heater Replacement	PRIORITY:	3
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PURPOSE: Replace

PROJECT DESCRIPTION

Upgrade water heaters in apartment units

JUSTIFICATION

Improve hot water efficiency by replacing older water heater units.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE	\$ 150,000	OTHER
FY 2019-20				
FY 2020-21	\$ 150,000	CONSTRUCTION		
FY 2021-22				
FY 2022-23				
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 150,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	150,000

DESCRIPTION OF SOURCE ESTIMATE: National Facility Consultants, Inc. Marietta, GA

REQUESTED BY: Cedric Baldwin
Department Head

DATE: 11/20/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC HOUSING
Fund: Public Housing**

PROJECT TITLE: Interior door replacement		PRIORITY:		4	
PURPOSE:					
PROJECT DESCRIPTION					
Replace interior doors in all apartment units					
JUSTIFICATION					
Modernization and upkeep of units.					
CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN			
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING			
FY 2018-19		PURCHASE			
FY 2019-20					
FY 2020-21	\$ 72,940	CONSTRUCTION	\$ 276,380	OTHER	
FY 2021-22	\$ 203,440				
FY 2022-23		MISCELLANEOUS			
FUTURE YEARS			OTHER:		
TOTAL	\$ 276,380		OTHER:		
		OTHER:			
		OTHER:			
		TOTAL	\$	276,380	

DESCRIPTION OF SOURCE ESTIMATE: National Facility Consultants, Inc. Marietta, GA

REQUESTED BY: Cedric Baldwin
Department Head

DATE: 11/20/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC HOUSING

Fund: Public Housing

PROJECT TITLE: Exterior Door Replacement	PRIORITY:	5
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PURPOSE: Replace

PROJECT DESCRIPTION

Replace exterior doors and security screens in all apartment units

JUSTIFICATION

Modernization and upkeep of apartment units,

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE		
FY 2019-20				
FY 2020-21		CONSTRUCTION		
FY 2021-22				
FY 2022-23	\$ 269,400	MISCELLANEOUS	\$ 400,000	OTHER
FUTURE YEARS	\$ 130,600			
TOTAL	\$ 400,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	400,000

DESCRIPTION OF SOURCE ESTIMATE: National Facility Consultants, Inc. Marietta, GA

REQUESTED BY: Cedric Baldwin
Department Head

DATE: 11/20/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC HOUSING

Fund: Public Housing

PROJECT TITLE: General Landscaping		PRIORITY:	6
PURPOSE: Renovate			
PROJECT DESCRIPTION			
PHA wide landscape upgrade			
JUSTIFICATION			
Modernization and upkeep of property			
CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN	
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	
FY 2018-19		PURCHASE	
FY 2019-20			
FY 2020-21		CONSTRUCTION	
FY 2021-22			
FY 2022-23		MISCELLANEOUS	
FUTURE YEARS	\$ 100,000		\$ 100,000
TOTAL	\$ 100,000	OTHER:	
		OTHER:	
		OTHER:	
		TOTAL	\$ 100,000

DESCRIPTION OF SOURCE ESTIMATE: National Facility Consultants, Inc. Marietta, GA

REQUESTED BY: Cedric Baldwin
Department Head

DATE: 11/20/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT CHART
FY 2019-2023**



SOLID WASTE AND DISPOSAL FUND

CAPITAL REQUEST	DEPT.	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE	TOTAL
Articulating Dump Truck	Public Works	\$ 86,400	\$ 86,400	\$ 86,400	\$ 86,400	\$ 86,400		\$ 432,000
Used Dozer	Public Works	\$ 150,000						\$ 150,000
Water Truck	Public Works		\$ 140,000					\$ 140,000
Waste Compactor Rebuild	Public Works			\$ 280,000				\$ 280,000
Waste Handling Dozer Rebuild	Public Works				\$ 220,000			\$ 220,000
Excavator	Public Works					\$ 300,000		\$ 300,000
Leachate Force Main Pumps	Public Works						\$ 100,000	\$ 100,000
Posi-Shell Applicator & Truck	Public Works						\$ 120,000	\$ 120,000
Maintenance Shop Remodel & Addition	Public Works						\$ 500,000	\$ 500,000
Rental of Screening & Mulching Equip	Public Works						\$ 150,000	\$ 150,000
TOTALS		\$ 236,400	\$ 226,400	\$ 366,400	\$ 306,400	\$ 386,400	\$ 870,000	\$ 2,392,000



CITY OF ALBEMARLE
CAPITAL PROJECT CHART
FY 2019-2023



DEPARTMENT: PUBLIC WORKS
FUND: Solid Waste and Disposal

REQUEST	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE
Articulating Dump Truck	\$ 86,400	\$ 86,400	\$ 86,400	\$ 86,400	\$ 86,400	
Used Dozer	\$ 150,000					
Water Truck		\$ 140,000				
Waste Compactor Rebuild			\$ 280,000			
Waste Handling Dozer Rebuild				\$ 220,000		
Excavator					\$ 300,000	
Leachate Force Main Pumps						\$ 100,000
Posi-Shell Applicator & Truck						\$ 120,000
Remodel & Addition						\$ 500,000
Rental of Screening & Mulching Equip						\$ 150,000
TOTAL	\$ 236,400	\$ 226,400	\$ 366,400	\$ 306,400	\$ 386,400	\$ 870,000

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC WORKS
Fund: Solid Waste and Disposal**

PROJECT TITLE: Articulating Dump Truck		PRIORITY:		1
PURPOSE: Renovate/Replace				
PROJECT DESCRIPTION				
Purchase new Articulating Dump Truck				
JUSTIFICATION				
The facility currently uses two articulating dump trucks (ADT) to haul soil, mulch, stone and other similar materials around the site. One is a 2000 model having over 14,000 hours on it and the other, newer one is a 2006 with over 9,000 hours. Most ADT manufacturers recommend a total overhaul of an ADT after approximately 10-13,000 hours of operation. To continue to maintain a safe and efficient operation, Staff recommend replacing the oldest ADT (2000 model) with a new one.				
CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 86,400	PURCHASE	\$ 432,000	LEASE PURCHASE
FY 2019-20	\$ 86,400			
FY 2020-21	\$ 86,400	CONSTRUCTION		
FY 2021-22	\$ 86,400			
FY 2022-23	\$ 86,400			
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 432,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$ 432,000	

DESCRIPTION OF SOURCE ESTIMATE: Vendor Estimate **FINANCING:** 59 months at 3% interest

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC WORKS
Fund: Solid Waste and Disposal**

PROJECT TITLE: Used Dozer		PRIORITY:		2
PURPOSE: Renovate/Replace				
PROJECT DESCRIPTION				
Purchase a used medium frame Dozer				
JUSTIFICATION				
Our current 2008 model, used for the placement of daily cover and to complete other required tasks, has over 13,000 hours on it. Most manufacturers recommend replacing or a total overhaul of a bulldozer after 10-13,000 hours. Based on an average yearly usage of 1,300 hours, I recommend replacing this model with a newer, used dozer.				
CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 150,000	PURCHASE	\$ 150,000	CURRENT REVENUE
FY 2019-20				
FY 2020-21		CONSTRUCTION		
FY 2021-22				
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS				
TOTAL	\$ 150,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	150,000

DESCRIPTION OF SOURCE ESTIMATE: Vendor Estimate **FINANCING:** 59 months at 3% interest

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC WORKS
Fund: Solid Waste and Disposal**

PROJECT TITLE: Used Water Truck	PRIORITY:	3
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PURPOSE: Expand

PROJECT DESCRIPTION

Purchase used Water Truck with a capacity of 4-6,000 gallons

JUSTIFICATION

The facility currently uses the 2,000 gallon Posi-Shell applicator for dust control when necessary. Although adequate, this is not the optimal solution, nor the most ideal method, for proper dust control across the entire site. At times, the machine is not available for dust control, being used for its primary purpose of the application of alternative daily cover. Dust control is a State regulatory requirement at solid waste facilities. A water truck, with a large capacity, is greatly needed and would also be available for fire suppression, if necessary.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE	\$ 140,000	CURRENT REVENUE
FY 2019-20	\$ 140,000			
FY 2020-21		CONSTRUCTION		
FY 2021-22				
FY 2022-23				
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 140,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	140,000

DESCRIPTION OF SOURCE ESTIMATE: Vendor Estimate

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC WORKS
Fund: Solid Waste and Disposal**

PROJECT TITLE: Waste Compactor Rebuild		PRIORITY:	4
PURPOSE: Renovate/Replace			
PROJECT DESCRIPTION			
Rebuild Waste Compactor Powertrain			
JUSTIFICATION			
Due to harsh conditions and continual use (2,000 hours annually), which waste compactors are subject to, the equipment manufacturer recommends a certified powertrain rebuild when the machine accrues between 10-13,000 hours. This rebuild will continue to ensure a safe work environment, reduce breakdown and help minimize overall costs of equipment maintenance.			
CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN	
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	
FY 2018-19		PURCHASE	
FY 2019-20			
FY 2020-21	\$ 280,000	CONSTRUCTION	
FY 2021-22			
FY 2022-23			
FUTURE YEARS		MISCELLANEOUS	
TOTAL	\$ 280,000	OTHER:	
			\$ 280,000
		OTHER:	
		OTHER:	
		TOTAL	\$ 280,000

DESCRIPTION OF SOURCE ESTIMATE: Vendor Quote

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC WORKS
Fund: Solid Waste and Disposal**

PROJECT TITLE: Waste Handling Dozer Rebuild	PRIORITY:	5
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PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Rebuild Waste Handling Dozer Powertrain

JUSTIFICATION

Due to harsh conditions and continual use (2,000 hours annually), which waste handling bulldozers are subject to, the equipment manufacturer recommends a certified powertrain rebuild when the machine accrues between 10-13,000 hours. This rebuild will continue to ensure a safe work environment, reduce breakdowns and help minimize overall costs of equipment maintenance.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE		
FY 2019-20				
FY 2020-21		CONSTRUCTION		
FY 2021-22	\$ 220,000			
FY 2022-23				
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 220,000	OTHER:		
			\$ 220,000	CURRENT REVENUE
		OTHER:		
		OTHER:		
		TOTAL	\$	220,000

DESCRIPTION OF SOURCE ESTIMATE: Vendor Estimate

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC WORKS
Fund: Solid Waste and Disposal**

PROJECT TITLE: New Excavator		PRIORITY:	6
PURPOSE: Replace			
PROJECT DESCRIPTION			
Purchase new Excavator			
JUSTIFICATION			
Our facility utilizes two excavators, a 2013 model and a 2002 model. The 2002 model has over 12,000 hours on it. Most manufacturers recommend a total overhaul after approximately 10-13,000 hours. Staff recommends replacing the 2002 model with a new machine.			
CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN	
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	
FY 2018-19			
FY 2019-20		PURCHASE	\$ 300,000
FY 2020-21			
FY 2021-22		CONSTRUCTION	
FY 2022-23	\$ 300,000		
FUTURE YEARS		MISCELLANEOUS	
TOTAL	\$ 300,000	OTHER:	
		OTHER:	
		OTHER:	
		TOTAL	\$ 300,000

DESCRIPTION OF SOURCE ESTIMATE: Vendor Estimate

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC WORKS
Fund: Solid Waste and Disposal**

PROJECT TITLE: Maintenance Shop Remodel/Addition	PRIORITY:	8
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PURPOSE:	Mandated
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PROJECT DESCRIPTION

Remodel the equipment maintenance shop with a possible addition to the size.

JUSTIFICATION

Our equipment maintenance shop is very old and obsolete. A remodel would provide a safer, more efficient work environment for the service and repair of the equipment. Additional space could provide needed storage for small equipment and parts storage.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE		
FY 2019-20				
FY 2020-21				
FY 2021-22		CONSTRUCTION	\$ 500,000	OTHER
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS	\$ 500,000			
TOTAL	\$ 500,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	500,000

DESCRIPTION OF SOURCE ESTIMATE: Estimate

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC WORKS
Fund: Solid Waste and Disposal**

PROJECT TITLE: Rental of Screening and Mulching Equipment		PRIORITY:	9
PURPOSE: Mandated			
PROJECT DESCRIPTION			
Rent screening and mulching equipment (Length of rental TBD)			
JUSTIFICATION			
Yard debris, leaves and land clearing debris account for 1/5 of incoming waste; much of which is prohibited from landfilling. Continued stockpiling is not an option. By mulching and screening, we can have a product useful for landfill purposes and a potential, viable revenue stream.			
CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN	
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	
FY 2018-19		PURCHASE	
FY 2019-20			
FY 2020-21		CONSTRUCTION	
FY 2021-22			
FY 2022-23		MISCELLANEOUS	
FUTURE YEARS	\$ 150,000		
TOTAL	\$ 150,000	OTHER:	\$ 150,000 CURRENT REVENUE
		OTHER:	
		OTHER:	
		TOTAL	\$ 150,000

DESCRIPTION OF SOURCE ESTIMATE: Estimate

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC WORKS
Fund: Solid Waste and Disposal**

PROJECT TITLE: Posi-Shell Applicator and Truck	PRIORITY:	10
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PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Replace or rebuild Posi-Shell Applicator

JUSTIFICATION

The current Posi-Shell applicator is a 1996 model, mounted on an older model truck chassis, and will need replacing or rebuilding in the future.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19				
FY 2019-20		PURCHASE	\$ 120,000	CURRENT REVENUE
FY 2020-21				
FY 2021-22		CONSTRUCTION		
FY 2022-23				
FUTURE YEARS	\$ 120,000	MISCELLANEOUS		
TOTAL	\$ 120,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	120,000

DESCRIPTION OF SOURCE ESTIMATE: Estimate

REQUESTED BY: Ross Holshouser
Department Head

DATE: 12/26/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT CHART
FY 2019-2023
ELECTRIC FUND**



CAPITAL REQUEST	DEPT.	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE	TOTAL
Electric Bucket Trucks	Public Utilities		\$275,000	\$525,000	\$300,000	\$300,000	\$300,000	\$ 1,700,000
Pickup Trucks	Public Utilities	\$30,000	\$30,000				\$60,000	\$ 120,000
Electric Line Trucks	Public Utilities	\$315,000			\$325,000	\$325,000	\$325,000	\$ 1,290,000
Service Trucks	Public Utilities	\$60,000		\$60,000		\$60,000	\$60,000	\$ 240,000
Dump Trucks	Public Utilities			\$50,000	\$75,000			\$ 125,000
UG Pulling Rig	Public Utilities				\$75,000			\$ 75,000
Pole Replacement	Public Utilities	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$ 600,000
Del.1 Transfer Buss	Public Utilities		\$75,000					\$ 75,000
Del 2 Equipment House	Public Utilities	\$135,000						\$ 135,000
Del. 2 CT Bypass Buss	Public Utilities			\$50,000				\$ 50,000
NC 24/27 Relocation	Public Utilities	\$390,000	\$390,000					\$ 780,000
US 52 S. Reconductor	Public Utilities		\$390,000	\$390,000				\$ 780,000
SCADA Master	Public Utilities	\$60,000						\$ 60,000
Traffic Signal Pole	Public Utilities	\$107,000						\$ 107,000
Replace Reclosers	Public Utilities	\$50,000	\$50,000	\$100,000	\$100,000	\$100,000	\$100,000	\$ 500,000
Recloser Com. Lines	Public Utilities	\$50,000	\$50,000	\$100,000	\$100,000	\$100,000		\$ 400,000
Business Park Primary	Public Utilities	\$350,000	\$350,000					\$ 700,000

New Primary L	Public Utilities						\$1,000,000	\$ 1,000,000
New Delivery 3 Circuit	Public Utilities	\$500,000						\$ 500,000
Meter Reader Vehicles		\$60,000	\$60,000					\$ 120,000
CSI Automation Platform		\$40,000						\$ 40,000
M-Care CSI Platform			\$50,000					\$ 50,000
Handhelds for Meter Reads				\$60,000				\$ 60,000
Replace PU Admin Vehicles						\$70,000		\$ 70,000
TOTALS		\$2,247,000	\$ 1,820,000	\$1,435,000	\$ 1,075,000	\$ 1,055,000	\$1,945,000	\$ 9,577,000



ALBEMARLE
NORTH CAROLINA
Water. Air. Land. Opportunity.

CITY OF ALBEMARLE

CAPITAL PROJECT CHART
FY 2019-2023



ALBEMARLE
NORTH CAROLINA
Water. Air. Land. Opportunity.

DEPARTMENT: PUBLIC UTILITIES PU Admin
FUND: Electric

REQUEST	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE
Meter Reader Vehicles	\$60,000	\$60,000				
CSI Automation Platform	\$40,000					
M-Care CSI Platform		\$50,000				
Handhelds for Meter Reads			\$60,000			
Replace PU Admin Vehicles					\$70,000	
TOTALS	\$100,000	\$ 110,000	\$60,000	\$0	\$70,000	\$0

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES PU Administration

Fund: Electric

PROJECT TITLE: Meter Technician Vehicles (PU Admin)	PRIORITY:	1
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PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Replace two of four vehicles used by meter techs.

JUSTIFICATION

Trucks are used by the meter technicians for reading of meter and fulfilling service orders for activation and deactivation of water and electric services. This would replace two of four trucks over the next two FYs. This will also provide for 4 wheel drive trucks for use during inclement weather and difficult access areas to service locations. Trucks being proposed for replacement have reached the end of their service life.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 60,000	PURCHASE	\$ 120,000	CURRENT REVENUE
FY 2019-20	\$ 60,000			
FY 2020-21		CONSTRUCTION		
FY 2021-22				
FY 2022-23				
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 120,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	120,000

DESCRIPTION OF SOURCE ESTIMATE: State Vehicle Contract - Lums Ford

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES PU Administration
Fund: Electric

PROJECT TITLE: Customer Service Information Platform (PU Admin)	PRIORITY:	2
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PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Automation conversion of billing and work order processes from current manual paper system

JUSTIFICATION

This provides for the first phase in converting the current method and workflow for reading meters, work order processing, credit control processes, and billing processes. Currently the system generates paper work orders and is dependent on manual processes for credit control analysis. The current system is inefficient in that the meter tech and other field personnel must come back to City Hall several times during the day to retrieve the work orders and other associated documents to complete customer service and billing related tasks. This would provide for the identification and analysis of current workflow processes and the development of an automated system to minimize the need for paper work orders and manual billing processes.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 40,000	PURCHASE	\$ 40,000	CURRENT REVENUE
FY 2019-20				
FY 2020-21		CONSTRUCTION		
FY 2021-22				
FY 2022-23				
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 40,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	40,000

DESCRIPTION OF SOURCE ESTIMATE: ElectriCities / Harris North Star

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES PU Administration
Fund: Electric**

PROJECT TITLE: M-Care Platform for CSI Automation (PU Admin)	PRIORITY:	3
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PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Provide for real time work order receipt and processing in the field

JUSTIFICATION

This request is predicated on completion of the CSI Automation project described previously. After implementation of the CSI Automation process, this project would provide the software and field grade equipment for the real time receipt and processing of service and work orders in the field. This provides for a reduction in the paper work orders generated in addition to reducing the time that is lost by the technicians having to return to City Hall several times during the day to collect work orders.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE	\$ 50,000	CURRENT REVENUE
FY 2019-20	\$ 50,000			
FY 2020-21		CONSTRUCTION		
FY 2021-22				
FY 2022-23				
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 50,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	50,000

DESCRIPTION OF SOURCE ESTIMATE: ElectriCities / Harris Northstar

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES PU Administration
Fund: Electric

PROJECT TITLE: New Handhelds for Meter Reading (PU Admin)	PRIORITY:	4
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PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Replace existing handhelds that are used daily for automated and manual reading of electric and water meters

JUSTIFICATION

This request will provide for the replacement of six handheld devices that are used for automatic and manual meter reading for electric and water service reading. The existing handheld devices are scheduled to be no longer supported by the manufacturer after 2021. The existing devices are approximately six to four years old and have reached the end of their service life.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE	\$ 60,000	CURRENT REVENUE
FY 2019-20				
FY 2020-21	\$ 60,000	CONSTRUCTION		
FY 2021-22				
FY 2022-23				
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 60,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	60,000

DESCRIPTION OF SOURCE ESTIMATE: Itron Meter Inc.

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



CITY OF ALBEMARLE
CAPITAL PROJECT CHART
FY 2019-2023



DEPARTMENT: PUBLIC UTILITIES Electric Ops
FUND: Electric

REQUEST	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE
Electric Bucket Trucks		\$275,000	\$525,000	\$300,000	\$300,000	\$300,000
Pickup Trucks	\$30,000	\$30,000				\$60,000
Electric Line Trucks	\$315,000			\$325,000	\$325,000	\$325,000
Service Trucks	\$60,000		\$60,000		\$60,000	\$60,000
Dump Trucks			\$50,000	\$75,000		
UG Pulling Rig				\$75,000		
Pole Replacement	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
Del.1 Transfer Buss		\$75,000				
Del 2 Equipment House	\$135,000					
Del. 2 CT Bypass Buss			\$50,000			
NC 24/27 Relocation	\$390,000	\$390,000				
US 52 S. Reconductor		\$390,000	\$390,000			
SCADA Master	\$60,000					
Traffic Signal Pole	\$107,000					
Replace Reclosers	\$50,000	\$50,000	\$100,000	\$100,000	\$100,000	\$100,000
Recloser Com. Lines	\$50,000	\$50,000	\$100,000	\$100,000	\$100,000	
Business Park Primary	\$350,000	\$350,000				
New Primary Line						\$1,000,000

New Delivery 3 Circuit	\$500,000						
TOTALS	\$2,147,000	\$	1,710,000	\$1,375,000	\$1,075,000	\$985,000	\$1,945,000

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Electric Operations
Fund: Electric

PROJECT TITLE: Electric Line Trucks **PRIORITY:** 1

PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Digger Derrick Line Truck Replacement & Addition

JUSTIFICATION

This truck will be 15 years old with a useful life of 10 years. Operational maintenance costs increase significantly after 10 years. FY 2021-22 funds are for the replacement of unit #303, a 2012 Digger/Derrick Line Truck. FY 2022-23 funds are for the addition of another Digger/Derrick Line Truck. Future funds are for the replacement of a Digger/Derrick Line Truck.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 315,000	PURCHASE	\$ 1,290,000	CURRENT REVENUE
FY 2019-20				
FY 2020-21		CONSTRUCTION		
FY 2021-22	\$ 325,000			
FY 2022-23	\$ 325,000	MISCELLANEOUS		
FUTURE YEARS	\$ 325,000			
TOTAL	\$ 1,290,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	1,290,000

DESCRIPTION OF SOURCE ESTIMATE: Terex Utilities – Charlotte, NC

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Electric Operations
Fund: Electric

PROJECT TITLE: Service Trucks **PRIORITY:** 2

PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Replace unit number 306 - 2011 Electric Service Truck

JUSTIFICATION

This truck will be 8 years old with a useful life of 5 years. Operational maintenance costs increase significantly after 5 years. FY 2020-21 funds are to replace unit #316, a 2012 Electric Service Truck. FY 2022-23 funds are for the addition of an Electric Service Truck. Future funds are for the replacement of an Electric Service Truck.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 60,000	PURCHASE	\$ 240,000	CURRENT REVENUE
FY 2019-20				
FY 2020-21	\$ 60,000	CONSTRUCTION		
FY 2021-22				
FY 2022-23	\$ 60,000	MISCELLANEOUS		
FUTURE YEARS	\$ 60,000			
TOTAL	\$ 240,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	240,000

DESCRIPTION OF SOURCE ESTIMATE: Lums Ford – Albemarle, NC

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Electric Operations
Fund: Electric

PROJECT TITLE: Pickup Trucks **PRIORITY:** 3

PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Pick-Up Truck Replacements

JUSTIFICATION

Current Pickup Trucks have a useful life of 10 years. This unit will be 14 years old. Operational maintenance costs increase significantly after 10 years. FY 2019-20 funds are to replace unit #300, a 2010 Electric Pickup Truck. Future funds are for the replacement of two Electric Pickup Trucks.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 30,000	PURCHASE	\$ 120,000	CURRENT REVENUE
FY 2019-20	\$ 30,000			
FY 2020-21		CONSTRUCTION		
FY 2021-22				
FY 2022-23				
FUTURE YEARS	\$ 60,000	MISCELLANEOUS		
TOTAL	\$ 120,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	120,000

DESCRIPTION OF SOURCE ESTIMATE: Lums Ford – Albemarle, NC

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Electric Operations
Fund: Electric

PROJECT TITLE: Electric Bucket Trucks	PRIORITY:	4
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PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Electric Bucket Trucks Replacements & Additions

JUSTIFICATION

This truck will be 12 years old with a useful life of 10 years. Operational maintenance costs increase significantly after 10 years. This particular truck has had many costly repairs made over the past several years. FY 2020-21 funds are to replace units #334, a 2002 Electric Bucket Truck and #319, a 2009 Electric Bucket Truck. FY 2021-22 funds are to replace unit #331, a 2013 Electric Bucket Truck. FY 2022-23 funds are for the addition of another Electric Bucket Truck. Future funds are for the replacement of an Electric Bucket Truck.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19				
FY 2019-20	\$ 275,000	PURCHASE	\$ 1,700,000	CURRENT REVENUE
FY 2020-21	\$ 525,000			
FY 2021-22	\$ 300,000	CONSTRUCTION		
FY 2022-23	\$ 300,000			
FUTURE YEARS	\$ 300,000	MISCELLANEOUS		
TOTAL	\$ 1,700,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	1,700,000

DESCRIPTION OF SOURCE ESTIMATE: Terex Utilities – Charlotte, NC

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Electric Operations
Fund: Electric

PROJECT TITLE: Dump Trucks	PRIORITY:	5
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PURPOSE: Expand/Renovate/Replace

PROJECT DESCRIPTION

Dump Truck Replacement & Additions

JUSTIFICATION

A small dump truck is needed for hauling purposes. We currently have to borrow one from P/U Systems, but there is not always one available when we need it. FY 2021-22 funds are to replace unit #328, a 2000 Electric Dump Truck. This unit is used in conjunction with the wood chipper during line trimming and R/W clearance.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE	\$ 125,000	CURRENT REVENUE
FY 2019-20				
FY 2020-21	\$ 50,000	CONSTRUCTION		
FY 2021-22	\$ 75,000			
FY 2022-23				
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 125,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	125,000

DESCRIPTION OF SOURCE ESTIMATE: Crook Motor Company – Albemarle, NC

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Electric Operations
Fund: Electric

PROJECT TITLE: UG Pulling Rig	PRIORITY:	6
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PURPOSE: Expand

PROJECT DESCRIPTION

Purchase an underground conductor pulling rig

JUSTIFICATION

Using equipment that is designed for the installation of underground conductors will increase safety for our employees and efficiency for the Electric Division.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE	\$ 75,000	CURRENT REVENUE
FY 2019-20				
FY 2020-21		CONSTRUCTION		
FY 2021-22	\$ 75,000			
FY 2022-23				
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 75,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	75,000

DESCRIPTION OF SOURCE ESTIMATE: Utility Service Agency – Charlotte, NC

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Electric Operations
Fund: Electric

PROJECT TITLE: Pole Replacement	PRIORITY:	7
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PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Contractor services to replace poles identified in pole inspection program

JUSTIFICATION

Electric Distribution System reliability and public safety create the need for this program, which is recommended in the Electric System ten year study done by Southeastern Consulting Engineers.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 100,000	PURCHASE		
FY 2019-20	\$ 100,000			
FY 2020-21	\$ 100,000	CONSTRUCTION	\$ 600,000	CURRENT REVENUE
FY 2021-22	\$ 100,000			
FY 2022-23	\$ 100,000	MISCELLANEOUS		
FUTURE YEARS	\$ 100,000			
TOTAL	\$ 600,000			
		OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	600,000

DESCRIPTION OF SOURCE ESTIMATE: City of Albemarle Public Utilities – Electric Division

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Electric Operations
Fund: Electric

PROJECT TITLE: Delivery 2 Equipment House	PRIORITY:	8
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PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Add a new equipment house with SEL relay panels at Delivery 2.

JUSTIFICATION

To upgrade antiquated equipment, as recommended in the Electric System ten year study done by Southeastern Consulting Engineers.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 135,000	PURCHASE	\$ 135,000	CURRENT REVENUE
FY 2019-20				
FY 2020-21		CONSTRUCTION		
FY 2021-22				
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS				
TOTAL	\$ 135,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	135,000

DESCRIPTION OF SOURCE ESTIMATE: Southeastern Consulting Engineers – Charlotte, NC

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Electric Operations
Fund: Electric

PROJECT TITLE: SCADA Master	PRIORITY:	9
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PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Purchase and install a new SCADA master station

JUSTIFICATION

The present SCADA(Supervisory Control And Data Acquisition) master station will be obsolete and will need to be replaced with newer technology, as recommended in the Electric System ten year study done by Southeastern Consulting Engineers.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 60,000	PURCHASE	\$ 60,000	CURRENT REVENUE
FY 2019-20				
FY 2020-21				
FY 2021-22				
FY 2022-23				
FUTURE YEARS		CONSTRUCTION		
TOTAL	\$ 60,000	MISCELLANEOUS		
		OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	60,000

DESCRIPTION OF SOURCE ESTIMATE: Southeastern Consulting Engineers – Charlotte, NC

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Electric Operations

Fund: Electric

PROJECT TITLE: Delivery 1 Transfer Buss	PRIORITY:	10
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PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Add a transfer buss at Delivery 1 to allow circuit breakers to be bypassed for maintenance

JUSTIFICATION

To allow circuit breakers to be bypassed for safe maintenance work, as recommended in the Electric System ten year study done by Southeastern Consulting Engineers.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE		
FY 2019-20	\$ 75,000			
FY 2020-21		CONSTRUCTION	\$ 75,000	CURRENT REVENUE
FY 2021-22				
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS				
TOTAL	\$ 75,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	75,000

DESCRIPTION OF SOURCE ESTIMATE: Southeastern Consulting Engineers – Charlotte, NC

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Electric Operations
Fund: Electric

PROJECT TITLE: Delivery 2 CT Bypass Buss	PRIORITY:	11
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PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Add a Current Transformer bypass buss at Delivery 2

JUSTIFICATION

To allow metering CT's to be bypassed for maintenance, as recommended in the Electric System ten year study done by Southeastern Consulting Engineers.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE		
FY 2019-20				
FY 2020-21	\$ 50,000	CONSTRUCTION	\$ 50,000	CURRENT REVENUE
FY 2021-22				
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS				
TOTAL	\$ 50,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	50,000

DESCRIPTION OF SOURCE ESTIMATE: Southeastern Consulting Engineers – Charlotte, NC

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Electric Operations
Fund: Electric

PROJECT TITLE: NC 24/27 Line Relocation Project	PRIORITY:	12
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PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Relocate electric distribution poles and lines for NCDOT highway widening project

JUSTIFICATION

Forced relocation for the widening to four lanes of NC 24/27 Highway, from NC 740 bypass to Tar Heel Drive. Based on the estimated start date, the project cost can be distributed over two budget years. Most of these funds will be reimbursed by NCDOT.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 390,000	PURCHASE		
FY 2019-20	\$ 390,000			
FY 2020-21		CONSTRUCTION	\$ 780,000	CURRENT REVENUE
FY 2021-22				
FY 2022-23				
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 780,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	780,000

DESCRIPTION OF SOURCE ESTIMATE: Southeastern Consulting Engineers – Charlotte, NC

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Electric Operations
Fund: Electric

PROJECT TITLE: US Business 52 South Reconductor Project	PRIORITY:	13
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PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Replace old copper primary and neutral conductors with larger ACSR aluminum conductors

JUSTIFICATION

The new Business Park, as well as Electric Distribution System reliability and public safety create the need for these upgrades, which are recommended by Southeastern Consulting Engineers. The project cost can be distributed over two budget years.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE		
FY 2019-20	\$ 390,000			
FY 2020-21	\$ 390,000	CONSTRUCTION	\$ 780,000	CURRENT REVENUE
FY 2021-22				
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS				
TOTAL	\$ 780,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	780,000

DESCRIPTION OF SOURCE ESTIMATE: Southeastern Consulting Engineers – Charlotte, NC

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Electric Operations
Fund: Electric

PROJECT TITLE: Traffic Signal Pole	PRIORITY:	14
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PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Install a metal traffic signal pole on S. 2nd St. and replace overhead wires with UG conductors

JUSTIFICATION

Historic 4-way traffic signal heads are attached to guy wires on wooden poles. They will be better supported by a cantilever pole. By replacing overhead primary lines with underground conductors, we will be able to remove at least four wooden poles along with wires and anchors, thus beautifying the final "gateway" to the downtown area.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 107,000	PURCHASE		
FY 2019-20				
FY 2020-21		CONSTRUCTION	\$ 107,000	CURRENT REVENUE
FY 2021-22				
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS				
TOTAL	\$ 107,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	107,000

DESCRIPTION OF SOURCE ESTIMATE: City of Albemarle Public Utilities – Electric Division and Southeastern Consulting Engineers

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Electric Operations
Fund: Electric

PROJECT TITLE: Primary Recloser Switches **PRIORITY:** 15

PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Purchase and install primary recloser switches

JUSTIFICATION

To upgrade circuit protection on our electric distribution system, as recommended in the Electric System ten year study done by Southeastern Consulting Engineers. Several primary recloser switches will be replaced or added each year.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 50,000	PURCHASE	\$ 500,000	CURRENT REVENUE
FY 2019-20	\$ 50,000			
FY 2020-21	\$ 100,000	CONSTRUCTION		
FY 2021-22	\$ 100,000			
FY 2022-23	\$ 100,000			
FUTURE YEARS	\$ 100,000	MISCELLANEOUS		
TOTAL	\$ 500,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	500,000

DESCRIPTION OF SOURCE ESTIMATE: Southeastern Consulting Engineers – Charlotte, NC

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Electric Operations

Fund: Electric

PROJECT TITLE: Recloser Communication Lines	PRIORITY:	16
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PURPOSE: Expand

PROJECT DESCRIPTION

Install fiber optic communication lines to primary recloser switches

JUSTIFICATION

The newer primary recloser switches have electronic relay controls that can be connected to the SCADA system. This will allow for remote monitoring and instant notification when the switch operates. The reclose function can also be blocked remotely in order for linemen to safely work on downstream energized equipment.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 50,000	PURCHASE		
FY 2019-20	\$ 50,000			
FY 2020-21	\$ 100,000	CONSTRUCTION	\$ 400,000	CURRENT REVENUE
FY 2021-22	\$ 100,000			
FY 2022-23	\$ 100,000			
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 400,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$ 400,000	

DESCRIPTION OF SOURCE ESTIMATE: City of Albemarle Public Utilities – Electric Division and Southeastern Consulting Engineers

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Electric Operations
Fund: Electric

PROJECT TITLE: Corporate Park Primary Distribution Lines	PRIORITY:	17
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PURPOSE: Expand

PROJECT DESCRIPTION

Construct new primary distribution lines for new business park

JUSTIFICATION

A new primary distribution line will need to be constructed alongside the new roadway to be built for the new business park. New lines will be tied to existing circuits on Henson Street and on US 52 Highway S. business.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	\$ 30,000	LEASE PURCHASE
FY 2018-19	\$ 350,000	PURCHASE		
FY 2019-20	\$ 350,000			
FY 2020-21		CONSTRUCTION		
FY 2021-22			\$ 670,000	LEASE PURCHASE
FY 2022-23				
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 700,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	700,000

DESCRIPTION OF SOURCE ESTIMATE: Will be estimated by City of Albemarle Public Utilities – Electric Division and Southeastern Consulting Engineers

REQUESTED BY: _____
Department Head

DATE: 11/6/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Electric Operations
Fund: Electric

PROJECT TITLE: New Primary Distribution Lines	PRIORITY:	18
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PURPOSE: Expand

PROJECT DESCRIPTION

Construct new primary distribution lines along US 52 Highway S. bypass

JUSTIFICATION

A new primary distribution line will need to be constructed alongside US 52 Highway S. bypass and some existing lines reconductored. This line will feed existing customers south of town along and adjacent to US 52 and NC 138 Highways.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	\$ 200,000	LEASE PURCHASE
FY 2018-19		PURCHASE		
FY 2019-20				
FY 2020-21		CONSTRUCTION		
FY 2021-22				
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS	\$ 1,000,000			
TOTAL	\$ 1,000,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	1,000,000

DESCRIPTION OF SOURCE ESTIMATE: Will be estimated by City of Albemarle Public Utilities – Electric Division and Southeastern Consulting Engineers

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Electric Operations
Fund: Electric

PROJECT TITLE: New Delivery 3 Circuit **PRIORITY:** 19

PURPOSE: Expand

PROJECT DESCRIPTION

Add a new circuit out of Delivery 3 – Central Avenue Delivery

JUSTIFICATION

A new primary circuit breaker and regulators will need to be added at the Delivery, existing lines on Commerce Street reconducted and circuit switching performed. This will provide a dedicated primary distribution circuit for the new business park.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	\$ 50,000.00	LEASE PURCHASE
FY 2018-19	\$ 500,000	PURCHASE	\$ -	FINANCE OPTIONS
FY 2019-20				
FY 2020-21		CONSTRUCTION	\$ 450,000.00	LEASE PURCHASE
FY 2021-22				
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS	\$ -			
TOTAL	\$ 500,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	TBD	

DESCRIPTION OF SOURCE ESTIMATE: Will be estimated by City of Albemarle Public Utilities – Electric Division and Southeastern Consulting Engineers

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT CHART
FY 2019-2023
WATER AND SEWER FUND**



CAPITAL REQUEST	DIV.	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE	TOTAL
Admin Bldg Roof	TTWTP		\$ 57,000					\$ 57,000
Lab Cabinets/Floor	TTWTP	\$ 40,000						\$ 40,000
Corrosion Coatings	TTWTP	\$ 155,000	\$ 125,000					\$ 280,000
SCADA Upgrades	TTWTP	\$ 185,000						\$ 185,000
Replace Trac Vac	TTWTP			\$ 350,000				\$ 350,000
Filter Sweeps	TTWTP					\$ 800,000		\$ 800,000
Deep Water Intake	TTWTP				\$ 4,000,000			\$ 4,000,000
Moss Springs Pump Station	Maint.	\$168,000						\$ 168,000
Replace # 625 Truck	Maint.			\$40,000				\$ 40,000
Replace Boom Truck	Maint.				\$300,000			\$ 300,000
Rehab/Coat Aquadale Rd. Tank	Maint.		\$300,000					\$ 300,000
Rehab/Coat East Albemarle Tank	Maint.			\$300,000				\$ 300,000
AMR meters	Systems	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000		\$ 500,000
GIS Mapping	Systems	\$100,000	\$100,000					\$ 200,000
I&I materials	Systems	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000		\$ 75,000
I&I project #3	Systems						\$2,200,000	\$ 2,200,000
Raw water main	Systems						\$8,700,000	\$ 8,700,000
I&I project #2	Systems	\$4,200,000						\$ 4,200,000
Replacing #424	Systems		\$41,000					\$ 41,000

Replacing # 406	Systems				\$200,000			\$ 200,000
Replacing#434	Systems			\$100,000				\$ 100,000
24/27 Widening URL	Systems			\$500,000	\$500,000			\$ 1,000,000
AMI Conversion	Systems						\$400,000	\$ 400,000
Corp. Park W&S	Systems	\$900,000	\$700,000					\$ 1,600,000
Replace filter media	LCWWTP	\$60,000						\$ 60,000
Electrical Rehab.	LCWWTP		\$1,700,000	\$740,000	\$1,110,000	\$400,000		\$ 3,950,000
A2 Replacement	LCWWTP			\$270,000				\$ 270,000
Hypochlorite System	LCWWTP				\$394,000			\$ 394,000
Plant road repairs	LCWWTP	\$64,000	\$55,000	\$54,000	\$62,000	\$62,000		\$ 297,000
Biosolids disp. Sys	LCWWTP					\$2,000,000		\$ 2,000,000
Old plant demo.	LCWWTP		\$100,000	\$100,000	\$100,000	\$100,000		\$ 400,000
TOTALS		\$ 5,987,000	\$ 3,293,000	\$ 2,569,000	\$ 6,781,000	\$ 3,477,000	\$ 11,300,000	\$ 33,407,000



CITY OF ALBEMARLE
CAPITAL PROJECT CHART
FY 2019-2023



DEPARTMENT: PUBLIC UTILITIES Long Creek WWTP
FUND: Water and Sewer

REQUEST	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE
Replace filter media	\$60,000					
Electrical Rehab.		\$1,700,000	\$740,000	\$1,110,000	\$400,000	
A2 Replacement			\$270,000			
Hypochlorite System				\$394,000		
Plant road repairs	\$64,000	\$55,000	\$54,000	\$62,000	\$62,000	
Biosolids disp. Sys					\$2,000,000	
Old plant demo.		\$100,000	\$100,000	\$100,000	\$100,000	
TOTALS	\$124,000	\$1,855,000	\$1,164,000	\$1,666,000	\$2,562,000	\$0

REQUESTED BY: M Leonas
 Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Long Creek WWTP

Fund: Water and Sewer

PROJECT TITLE: Replace filter Media	PRIORITY:	1
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PURPOSE: Renovate/replace

PROJECT DESCRIPTION

The filter media is approximately 6 years old. As the media ages we start seeing elevated concentrations of Total Suspended Solids in the effluent. As the TSS concentrations increase, we start having noncompliance issues with our NPDES permit.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 60,000	PURCHASE	60,000	CURRENT REVENUE
FY 2019-20				
FY 2020-21		CONSTRUCTION		
FY 2021-22				
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS				
TOTAL	\$ 60,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	60,000

DESCRIPTION OF SOURCE ESTIMATE: Heyward Inc.

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES Long Creek WWTP
Fund: Water and Sewer**

PROJECT TITLE: Electrical Distribution System Rehab	PRIORITY:	2
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PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Electrical distribution system is 45 years old and beginning to experience significant failures and expensive repairs. Outages has resulted in in The City receiving Notices of Violations (NOVs) and a request from DEQ to initiate corrective actions to improve system performance and reliability.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	\$560,000	LEASE PURCHASE
FY 2018-19		PURCHASE		
FY 2019-20	\$1,700,000			
FY 2020-21	\$740,000	CONSTRUCTION	\$3,390,000	LEASE PURCHASE
FY 2021-22	\$1,110,000			
FY 2022-23	\$400,000	MISCELLANEOUS		FINANCE OPTIONS
FUTURE YEARS				
TOTAL	\$ 3,950,000			
		OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	3,950,000

DESCRIPTION OF SOURCE ESTIMATE: Preliminary cost estimate prepared by Southeastern Consulting Engrs.

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES Long Creek WWTP
Fund: Water and Sewer**

PROJECT TITLE: Replacement of A2 Screw Pump **PRIORITY:** 3

PURPOSE: Renovate/replace

PROJECT DESCRIPTION

Age of pump is in excess of 30 years. Existing screw pump has exceeded service life. Poor/inefficient performance contributes to Sanitary Sewer Overflows (SSO) both inside of the wastewater plant and the collection system. during large rain events. Failure of the pump increases the risk of non-compliance

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE	\$270,000	CURRENT REVENUE
FY 2019-20				
FY 2020-21	\$270,000	CONSTRUCTION		
FY 2021-22				
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS				
TOTAL	\$ 270,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL		\$270,000

DESCRIPTION OF SOURCE ESTIMATE: Preliminary cost estimate from LKC Engineering

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Long Creek WWTP

Fund: Water and Sewer

PROJECT TITLE: Hypochlorite Conversion System	PRIORITY:	4
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PURPOSE: Renovate/replace

PROJECT DESCRIPTION

Convert existing disinfection system from gas chlorine to a liquid hypochlorite system. Gas chlorine system attaches many layers of regulatory requirements as it poses an air quality risk for the surrounding community. Chlorine needs are much less for wastewater versus water treatment. Conversion to hypochlorite (bleach) is a much safer alternative for wastewater treatment and just as effective as chlorine gas. Project would reduce costs associated with the regulatory air quality rules and risk management plans.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	80,000	CURRENT REVENUE
FY 2018-19		PURCHASE		
FY 2019-20				
FY 2020-21		CONSTRUCTION		
FY 2021-22	\$394,000		314,000	CURRENT REVENUE
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS				
TOTAL	\$ 394,000		OTHER:	
		OTHER:		
		OTHER:		
		TOTAL	\$ 394,000	

DESCRIPTION OF SOURCE ESTIMATE: Preliminary cost estimate from LKC Engineering

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES Long Creek WWTP
Fund: Water and Sewer**

PROJECT TITLE: Plant Road Repairs	PRIORITY:	5
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PURPOSE: Renovate/replace

PROJECT DESCRIPTION

Pavement rehabilitation to repair pot holes, crack, etc for selected roads/areas at WWTP. Plant roads are in fair to poor conditions. No significant repairs or maintenance over the past 10-20 years. Significant potholes, cracks and loss of pavement section has become an issue as to wear and tear on plant vehicles and general safety in traveling plant roads.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$64,000	PURCHASE		
FY 2019-20	\$55,000			
FY 2020-21	\$54,000	CONSTRUCTION	297,000	CURRENT REVENUE
FY 2021-22	\$62,000			
FY 2022-23	\$62,000			
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 297,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$297,000	

DESCRIPTION OF SOURCE ESTIMATE: Preliminary cost estimate from LKC Engineering.

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES Long Creek WWTP
Fund: Water and Sewer**

PROJECT TITLE: Biosolids Disposal system	PRIORITY:	6
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PURPOSE: Renovate/replace

PROJECT DESCRIPTION

Provide for onsite biosolids handling and disposal in lieu of current pump and haul program. Current pump and haul program costs the PUD approximately \$300K per year with the majority of the expenses being paid to WASACC for incineration at the Rocky River WWTP. There have been numerous occasions where the Rocky River Facility has notified the City that they were experiencing disruption and/or maintenance outages of their system and could not accept biosolids. These disruptions have lasted for several weeks at a time. Without the ability to waste biosolids regularly from the treatment process, there is an increased risk for long term adverse effects on the treatment process and in increased probability for permit violations.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	300,000	LEASE PURCHASE
FY 2018-19		PURCHASE		
FY 2019-20				
FY 2020-21		CONSTRUCTION	1,700,000	LEASE PURCHASE
FY 2021-22				
FY 2022-23	\$2,000,000	MISCELLANEOUS		
FUTURE YEARS		OTHER:		
TOTAL	\$ 2,000,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$ 2,000,000	

DESCRIPTION OF SOURCE ESTIMATE: Preliminary cost estimate from LKC Engineering. Used 2016 cost estimate.

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES Long Creek WWTP
Fund: Water and Sewer**

PROJECT TITLE: Reclaim Plant Real Estate	PRIORITY:	7
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PURPOSE: Renovate/replace

PROJECT DESCRIPTION

Demolition and/or abandon in places obsolete plant structure, piping and equipment. The A-Plant area (headworks) has a large number of open top tanks, clarifiers, deep well buildings and other associated above ground structures. Some of these structures have been abandoned in excess of 50 years due to changes in the methodology of treatment rendering them obsolete. It has been determined that they will serve no useful purpose in the foreseeable future. The structures pose a safety risk due to the nature of the structures and the lack of maintenance on the structure and the associated safety railings and catwalks. The open tanks hold water continuously providing an attraction vector for mosquitos and a drowning risk for wildlife.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19				
FY 2019-20	\$100,000	PURCHASE		
FY 2020-21	\$100,000			
FY 2021-22	\$100,000	CONSTRUCTION	\$400,000	CURRENT REVENUE
FY 2022-23	\$100,000			
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 400,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$ 400,000	

DESCRIPTION OF SOURCE ESTIMATE: Preliminary cost estimate prepared by LKC Engineering

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



CITY OF ALBEMARLE
CAPITAL PROJECT CHART
FY 2019-2023



DEPARTMENT: PUBLIC UTILITIES Tuckertown WTP
FUND: Water and Sewer

REQUEST	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE
Admin Bldg Roof		\$ 57,000				
Lab Cabinets/Floors	\$ 40,000					
Corrosion Coatings	\$ 155,000	\$ 125,000				
SCADA Upgrades	\$ 185,000					
Replace Trac Vac			\$ 350,000			
Filter Sweeps					\$ 800,000	
Deep Water Intake				\$ 4,000,000		
TOTALS	\$380,000	\$182,000	\$350,000	\$4,000,000	\$800,000	\$0

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES Tuckertown WTP
Fund: Water and Sewer**

PROJECT TITLE: Renovate Lab Cabinets and Plant Flooring	PRIORITY:	1
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PURPOSE: Renovate

PROJECT DESCRIPTION

Repaint all the cabinets in the Lab area. The cabinets in the Laboratory are metal. They have severe surface rust, scratches, and worn areas from 25 years of service. The cabinets are an eye sore and impossible to keep clean. **Epoxy Coating on the floors in Filter Gallery, Control Room and the operations building.** The floors in these areas originally had VCT self adhesive tile that had failed over the years and subsequently removed. Some of the floor areas were painted with a floor paint but failed in a short time because of inadequate prep. The floors will need to be professionally grind prepped and cleaned and coated with epoxy floor coating.

		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	40,000	PURCHASE		
FY 2019-20				
FY 2020-21				
FY 2021-22		CONSTRUCTION	40,000	CURRENT REVENUE
FY 2022-23				
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 40,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	40,000

DESCRIPTION OF SOURCE ESTIMATE: Creative Resurfacing.

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES Tuckertown WTP
Fund: Water and Sewer**

PROJECT TITLE: Corrosion Coatings - Tanks and Basins	PRIORITY:	2
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PURPOSE: Renovate/replace

PROJECT DESCRIPTION

2018-2019 Paint the finished water tank and backwash tank. The exterior tank coatings on these tanks have begun to show signs of wear and are showing indications of failure due to weather exposure. Tank manufactures typically advise maintenance painting of tanks every 15 to 20 years. We believe that coating these tanks will preserve the structural integrity of the tanks for many years. **2019-2020 Paint the sludge pipes and I beams and flocculator bridges in all the settling basins.** The steel beams, flocculator bridges, and pipes in each basin is showing severe deterioration because they are constantly submerged. This steel will require abrasive blasting for proper application of the coating systems for effective corrosion protection.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$155,000	PURCHASE		
FY 2019-20	\$125,000			
FY 2020-21				
FY 2021-22		CONSTRUCTION	\$280,000	CURRENT REVENUE
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS		OTHER:		
TOTAL	\$ 280,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	280,000

DESCRIPTION OF SOURCE ESTIMATE: Carolina Management Team -Vendor

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES Tuckertown WTP
Fund: Water and Sewer**

PROJECT TITLE: Internal Plant SCADA upgrades **PRIORITY:** 3

PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Upgrade all the SCADA internal to the plant to include chemical pumps, chlorine feed system, high service pumps, air stripping towers and the raw water pump station. The project will require Remote Terminal Cabinets to be installed in various areas of the plant. A major part of the project entails removing the large antiquated annunciator panel that is in the control room. This panel has been patch repaired several times. It is full of obsolete electronic equipment that is unreliable and prone to failures and does not conform to current standards for SCADA system components. Please note that the previous SCADA upgrades were focused on the external and remote telemetry from the various pump stations and tanks associated with PNS and CKA water transmission and storage systems.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	185,000	PURCHASE		
FY 2019-20				
FY 2020-21		CONSTRUCTION	185,000	CURRENT REVENUE
FY 2021-22				
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS				
TOTAL	\$ 185,000		OTHER:	
		OTHER:		
		OTHER:		
		TOTAL		\$185,000

DESCRIPTION OF SOURCE ESTIMATE: Fortech.

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES Tuckertown WTP
Fund: Water and Sewer**

PROJECT TITLE: Roof Replacement - Admin/Lab Building	PRIORITY:	4
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PURPOSE: Renovate/replace

PROJECT DESCRIPTION

Replace roofing on the Administration / Laboratory Building. In previous inspections from roofing contractors, it was determined that the subject roof is past its lifespan. It is in excess of 25 years old. There are numerous areas that have leaked and been patched in the past. The roof has deteriorated to a point that it needs replacement.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE		
FY 2019-20	57,000			
FY 2020-21		CONSTRUCTION		
FY 2021-22			57,000	CURRENT REVENUE
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS				
TOTAL	\$ 57,000		OTHER:	
		OTHER:		
		OTHER:		
		TOTAL	\$	57,000

DESCRIPTION OF SOURCE ESTIMATE: Montgomery Contractors, INC.

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES Tuckertown WTP
Fund: Water and Sewer**

PROJECT TITLE: Trac Vac System	PRIORITY:	5
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PURPOSE: Replace

PROJECT DESCRIPTION

Replace the trac vac system in the bottom of the sedimentation basins. The trac vac system provides for the consistent and automated removal of the settled solids that are generated in the sedimentation basins. The system is over 25 years old and uses a technology that requires constant attention and a high interval/degree of maintenance. Replacement parts are becoming scarce. The new units are much more efficient and can be programmed so that they waste far less water. The control cabinet for these units is antiquated and would be removed and replaced with a Programmable Logic Controller requiring a much smaller footprint giving more room in the control room.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE		
FY 2019-20				
FY 2020-21	\$350,000	CONSTRUCTION	\$350,000	CURRENT REVENUE
FY 2021-22				
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS				
TOTAL	\$ 350,000		OTHER:	
		OTHER:		
		OTHER:		
		TOTAL	\$	350,000

DESCRIPTION OF SOURCE ESTIMATE: Jim Myers

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES Tuckertown WTP
Fund: Water and Sewer**

PROJECT TITLE: Relocate Deep Water Intake **PRIORITY:** 6

PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

The current location of the raw water intake is in a shallow cove on the Tuckertown Reservoir. The shallow depth of the intake has demonstrated a negative influence on the raw water quality. Increased water temperature, solids concentrations, and algae blooms affect the efficiency and effectiveness of the treatment systems at the plant. This would extend the location of the intake via a submerged pipeline from the current location of the intake at the raw water pump station to the east towards the main channel of the reservoir. The increased depth in the main channel would allow for multiple withdrawal depths to adjust for differences in the water depth and water stratum quality.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	\$800,000	LEASE PURCHASE
FY 2018-19		PURCHASE		
FY 2019-20				
FY 2020-21		CONSTRUCTION	\$3,200,000	LEASE PURCHASE
FY 2021-22	\$4,000,000			
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS				
TOTAL	\$ 4,000,000		OTHER:	
		OTHER:		
		OTHER:		
		TOTAL	\$	4,000,000

DESCRIPTION OF SOURCE ESTIMATE: LKC

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES Tuckertown WTP
Fund: Water and Sewer**

PROJECT TITLE: Upgrade Filter Sweeps **PRIORITY:** 7

PURPOSE: Upgrade/Replace

PROJECT DESCRIPTION

Upgrade filter sweeps to an air scour system which cleans the filter media with pressurized air from the bottom of the media to the surface. There are 4 filters with two sweeps per filter. The current filter sweep system is a technology that has become outdated. The system is water driven and is only effective for the upper reaches of the filter media instead of the full depth. The newer "Air Scour" technology is proven to be more efficient, and doing a much better job in cleaning the filters. The project would include a rotary screw compressor and related air piping as well as power & control wiring.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN			
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING			
FY 2018-19		PURCHASE			
FY 2019-20					
FY 2020-21		CONSTRUCTION	\$800,000	CURRENT REVENUE	
FY 2021-22					
FY 2022-23	\$800,000	MISCELLANEOUS			
FUTURE YEARS			OTHER:		
TOTAL	\$ 800,000		OTHER:		
		OTHER:			
		TOTAL	\$	800,000	

DESCRIPTION OF SOURCE ESTIMATE: Preliminary cost estimate from LKC Engineering

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT CHART
FY 2019-2023**



DEPARTMENT: Public Utilities W&S Systems
FUND: Water and Sewer

REQUEST	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE
AMR meters	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	
GIS Mapping	\$100,000	\$100,000				
I&I materials	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	
I&I project #3						\$2,200,000
Raw water main						\$8,700,000
I&I project #2	\$4,200,000					
Replacing #424		\$41,000				
Replacing # 406				\$200,000		
Replacing#434			\$100,000			
24/27 Widening URL			\$500,000	\$500,000		
AMI Conversion						\$400,000
Corp. Park W&S	\$900,000	\$700,000				
TOTALS	\$5,315,000	\$956,000	\$715,000	\$815,000	\$115,000	\$11,300,000

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES W&S Systems
Fund: Water and Sewer**

PROJECT TITLE: AMR Meter Replacement Program		PRIORITY:		1
PURPOSE: Replace/Upgrade				
PROJECT DESCRIPTION				
Meter change out program from manual read meters to radio read types				
JUSTIFICATION				
This program provides for the conversion of manually read meters to direct read AMR meters. AMR meters transmit a radio signal that is read by a handheld receiver increasing the efficiency and accuracy of the meter reading process. Water meters typically lose accuracy over time and record less water than what was actually used. This program provides for not only the conversion process but also for existing AMR meters to be changed out and recalibrated on a regular interval to ensure accuracy and minimize lost revenue. Funding is for materials with PUD W&S Systems staff providing labor for installation				
CAPITAL COST BREAKDOWN				
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	100,000	PURCHASE	\$500,000	CURRENT REVENUE
FY 2019-20	100,000			
FY 2020-21	100,000	CONSTRUCTION		
FY 2021-22	100,000			
FY 2022-23	100,000			
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$500,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	500,000

DESCRIPTION OF SOURCE ESTIMATE: (Master Meter) Consolidated Pipe and Supply

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES W&S Systems
Fund: Water and Sewer**

PROJECT TITLE: San. Sewer Replacement & Rehab - Phase II	PRIORITY:	2
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PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Replace existing 16" & 24" sanitary sewer trunk lines with new PVC and precast concrete manholes

JUSTIFICATION

This provides for continuation of the replacement and rehabilitation of trunk lines of the sanitary sewer collection system to minimize inflow and infiltration into the system. This replaces and rehabilitates deteriorated pipe and manholes with new materials from the end of the completed Phase I project (Salisbury Ave) northward to the Delco Plaza/Gold's Gym. This sewer main parallels the Long Creek stream and is mainly comprised of older terra cotta pipe. The joints in the pipes have deteriorated to the extent that they are no longer watertight. This allows ground water to penetrate and inflow into the collection system . This leads to a capacitated collection system during heavy rain events. A capacitated collection system elevates the risk for combined sewer overflows and their associated violations of the operating permit from the NCDEQ.

CAPITAL COST BREAKDOWN

		PLANNING, DESIGN, AND ENGINEERING			
COMMITTED PRIOR TO FY 17-18			\$700,000	LEASE PURCHASE	
FY 2018-19	\$4,200,000	PURCHASE			
FY 2019-20					
FY 2020-21					
FY 2021-22		CONSTRUCTION	\$3,500,000	LEASE PURCHASE	
FY 2022-23		MISCELLANEOUS			
FUTURE YEARS					
TOTAL	\$ 4,200,000		OTHER:		
			OTHER:		
		OTHER:			
		TOTAL		\$4,200,000	

DESCRIPTION OF SOURCE ESTIMATE: LKC

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES W&S Systems

Fund: Water and Sewer

PROJECT TITLE: Inflow & Infiltration Minimization Program	PRIORITY:	3
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PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Identify leaking manholes and apply a spun polyurethane material to seal the manholes identified

JUSTIFICATION

The sewer collection system has a number of older manholes and structures that are built of clay brick with mortar joints. Many of these structures are located in areas subject to high water tables and therefore are subject to leaking. This provides a significant source of infiltration of groundwater into the sewer collection system. This provides funding to continue this element of the I&I minimization program in support of the larger I&I minimization projects that have been undertaken and proposed.

		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	\$ 15,000	PURCHASE	\$ 75,000	CURRENT REVENUE
FY 2019-20	\$ 15,000			
FY 2020-21	\$ 15,000	CONSTRUCTION		
FY 2021-22	\$ 15,000			
FY 2022-23	\$ 15,000			
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$75,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$ 75,000	

DESCRIPTION OF SOURCE ESTIMATE: Spectra Shield

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES W&S Systems
Fund: Water and Sewer**

PROJECT TITLE: Water / Sewer Utility Relocation - 24/27 Widening	PRIORITY:	4
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PURPOSE: Replace

PROJECT DESCRIPTION

Relocation of water & sewer lines to support the 24/27 widening by NCDOT. (East Main St. to Sweet Home Church Road)

JUSTIFICATION

The proposed 24/27 widening by NC DOT will require the relocation of water and sewer lines that are located within the current right-of-way. Conceptual estimates prepared by Chambers Engineering for the project have yielded a total project cost of approximately \$ 4.0M. Preliminary plans for the alignment of the roadway are still under development by NCDOT. Chambers will finalize the design upon release of the preliminary plans from NCDOT. The stated project cost is subject to change based finalization of the construction plans. Based on current NCGS, the City will be responsible for 25% of the projects costs.

		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	\$ 100,000	CURRENT REVENUE
FY 2018-19				
FY 2019-20		PURCHASE		
FY 2020-21	\$ 500,000			
FY 2021-22	\$ 500,000	CONSTRUCTION	\$ 900,000	CURRENT REVENUE
FY 2022-23				
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 1,000,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	1,000,000

DESCRIPTION OF SOURCE ESTIMATE: Chambers Engineering

REQUESTED BY: M. Leonas **DATE:** 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES W&S Systems
Fund: Water and Sewer**

PROJECT TITLE: GIS MAPPING **PRIORITY: 5**

PURPOSE: Expand

PROJECT DESCRIPTION

Provide Water and Sewer mapping on a GIS platform

JUSTIFICATION

The location of the lines, valves, and appurtenances of the water distribution and sewer collection system are currently only available in a hard copy (paper) format. This is becoming problematic in executing work orders and emergency responses on these systems. This request would provide the development (framework, location, and mapping) of a Geographic Information System (GIS) for the water distribution and sewer collection systems. The GIS would not only provide spatial location but would also provide attribute information defining and describing the lines, valves, and appurtenances that comprise the system. The GIS system would also be structured to link the information from work orders to spatial locations on the mapping to identify trending and metric information on issues and problems in the systems.

CAPITAL COST BREAKDOWN

COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19	100,000	PURCHASE	200,000	CURRENT REVENUE
FY 2019-20	100,000			
FY 2020-21		CONSTRUCTION		
FY 2021-22				
FY 2022-23				
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 200,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$ 200,000	

DESCRIPTION OF SOURCE ESTIMATE: Chambers Engineering

REQUESTED BY: M Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES W&S Systems
Fund: Water and Sewer**

PROJECT TITLE: San. Sewer Replacement & Rehab - Phase III	PRIORITY:	6
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PURPOSE: Renovate/Replace

PROJECT DESCRIPTION

Replace existing 16" and 36" sanitary sewer trunk lines with new PVC pipe and precast concrete manholes

JUSTIFICATION

This provides for continuation of the replacement and rehabilitation of trunk lines of the sanitary sewer collection system to minimize inflow and infiltration into the system. This replaces and rehabilitates deteriorated pipe and manholes with new materials from the Long Creek WWTP to the west towards Concord Rd. This sewer main parallels the Long Creek stream and is mainly comprised of older terra cotta pipe. The joints in the pipes have deteriorated to the extent that they are no longer watertight. This allows ground water to penetrate and inflow into the collection system . This leads to a capacitated collection system during heavy rain events. A capacitated collection system elevates the risk for combined sewer overflows and their associated violations of the operating permit from the NCDEQ.

		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	\$300,000	LEASE PURCHASE
FY 2018-19		PURCHASE		
FY 2019-20				
FY 2020-21		CONSTRUCTION	\$1,900,000	LEASE PURCHASE
FY 2021-22				
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS	\$2,200,000			
TOTAL	\$ 2,200,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL		\$2,200,000

DESCRIPTION OF SOURCE ESTIMATE: LKC

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES W&S Systems
Fund: Water and Sewer**

PROJECT TITLE: Replace Raw Water Transmission Main		PRIORITY:	7
PURPOSE: Renovate /Replace			
PROJECT DESCRIPTION			
Replace raw water main transmission line form Old Whitney to Hwy 52 WTP			
JUSTIFICATION			
This water transmission main is a 24-inch diameter line providing raw water from the Old Whitney Pump Station on Badin Lake to the US 52 Water Treatment Plant approximately 8 miles away. The transmission main is 90 + years old and is comprised of cast iron with leaded joint seals. The cast iron has become brittle with age. The line is also in close proximity to homes and structures that were built after the installation of the main which could potentially interfere with maintenance and repair of the main. This project would replace the main with new material and reroute the main to resolve a significant portion of the proximity and location issues.			
		CAPITAL COST BREAKDOWN	
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	\$ 1,300,000 LEASE PURCHASE
FY 2018-19		PURCHASE	
FY 2019-20			
FY 2020-21		CONSTRUCTION	\$ 7,400,000 LEASE PURCHASE
FY 2021-22			
FY 2022-23			
FUTURE YEARS	\$8,700,000	MISCELLANEOUS	
TOTAL	\$ 8,700,000	OTHER:	
		OTHER:	
		OTHER:	
		TOTAL	\$ 8,700,000

DESCRIPTION OF SOURCE ESTIMATE: LKC

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES W&S Systems
Fund: Water and Sewer**

PROJECT TITLE: Replace Unit 406 (Rubber Tire End Loader)	PRIORITY:	8
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PURPOSE: Renovate / Replace

PROJECT DESCRIPTION

Replace rubber tire loader - Unit 406

JUSTIFICATION

This machine is 24 years old and is experiencing extended down time due to problems with the hydraulic system driving the bucket cylinders. The unit is becoming unreliable. This machine is used for loading materials into dump trucks, primarily gravel and earth, that are needed for trench backfill replacement when repairs are made to the collection and/or distribution systems. The unit is used on a daily basis.

CAPITAL COST BREAKDOWN

COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE	\$200,000	CURRENT REVENUE
FY 2019-20				
FY 2020-21		CONSTRUCTION		
FY 2021-22	\$200,000			
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS				
TOTAL	\$ 200,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	200,000

DESCRIPTION OF SOURCE ESTIMATE: Historical References / CAT Equipment

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES W&S Systems
Fund: Water and Sewer**

PROJECT TITLE: Replace Unit 424 (One-Ton Flatbed Truck)	PRIORITY:	9
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PURPOSE: Renovate/ Replace

PROJECT DESCRIPTION

Replace 1-ton flatbed truck (Unit 424)

JUSTIFICATION

Vehicle is used to transport materials and tools to the various job sites across the system. Existing unit is 23 years old and is beginning to experiencing issues with the transmission and the hydraulic system that drives the lift cylinders on the dump bed. These issues are affecting the reliability of the unit.

CAPITAL COST BREAKDOWN

		PLANNING, DESIGN, AND ENGINEERING		
COMMITTED PRIOR TO FY 17- 18				
FY 2018-19				
FY 2019-20	\$ 41,000	PURCHASE	41,000	CURRENT REVENUE
FY 2020-21				
FY 2021-22		CONSTRUCTION		
FY 2022-23				
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 41,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$ 41,000	

DESCRIPTION OF SOURCE ESTIMATE: State contract Chevy

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES W&S Systems

Fund: Water and Sewer

PROJECT TITLE: Replace Unit 434 (Two-Ton Dump Truck)	PRIORITY:	10
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PURPOSE: Renovate / Replace

PROJECT DESCRIPTION

Replace 2-ton dump truck

JUSTIFICATION

The unit is used daily to transport trench backfill and other construction materials to the various job sites across the system. The current unit is over 17 years old. The unit is experiencing increased maintenance due to issues with the engine and drivetrain. The unit is becoming unreliable.

CAPITAL COST BREAKDOWN

		PLANNING, DESIGN, AND ENGINEERING		
COMMITTED PRIOR TO FY 17- 18				
FY 2018-19				
FY 2019-20		PURCHASE	\$100,000	CURRENT REVENUE
FY 2020-21	\$100,000			
FY 2021-22		CONSTRUCTION		
FY 2022-23				
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 100,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	100,000

DESCRIPTION OF SOURCE ESTIMATE: Historical pricing from State Contract

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



Department Head
CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023



Department: PUBLIC UTILITIES W&S Systems
Fund: Water and Sewer

PROJECT TITLE: AMI Meter Conversion Program	PRIORITY:	11
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PURPOSE: Expand

PROJECT DESCRIPTION

Convert the Automatic Meter Read (AMR) system to an Automated Meter Integration (AMI) system.

JUSTIFICATION

The current AMR technology is limited in the availability of the data on a real time basis. The data is only obtained from an AMR meter when the handheld data collector is in close proximity and a call for a read from the handheld is executed. This is currently done on a fixed once a month basis based on the current meter read routes. The AMR system is also limited in that only the bulk usage data since the last reading is provided. An AMI system differs from that of an AMR system in that the AMI meter continuously transmits usage data to a central receiving station/server via a system wide radio network. This real time capability will provide the PUD with the ability to monitor the system for leak detection, unauthorized usage, analyze usage patterns, etc.. This capability would also provide the customer with the same information via their customer portal with the potential to look at their usage patterns on an hourly basis. Also since the information is collected in real time, the customer would have the ability to set a specific billing date since the date would no longer be based on the day of the meter read route. This does not require a change out of the entire meter but only the radio transmitter in the meter along with a deployment of the radio network

		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE	\$ 400,000	CURRENT REVENUE
FY 2019-20				
FY 2020-21		CONSTRUCTION		
FY 2021-22				
FY 2022-23				
FUTURE YEARS	\$ 400,000	MISCELLANEOUS		
TOTAL	\$ 400,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	400,000

DESCRIPTION OF SOURCE ESTIMATE: Order of magnitude estimate provided by Consolidated Pipe.

REQUESTED BY: M. Leonas **DATE:** 12/1/2017



Department Head
CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023



Department: PUBLIC UTILITIES W&S Systems
Fund: Water and Sewer

PROJECT TITLE: Corporate Center - W&S System	PRIORITY:	12
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PURPOSE: Expand

PROJECT DESCRIPTION

Install the water distribution and sanitary sewer collection system to support development of the Corporate Center

JUSTIFICATION

Project would provide water and sewer service to support development in the Albemarle Corporate Center.

		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	\$250,000	LEASE PURCHASE
FY 2018-19	\$900,000	PURCHASE		
FY 2019-20	\$700,000			
FY 2020-21		CONSTRUCTION	\$1,350,000	LEASE PURCHASE
FY 2021-22				
FY 2022-23				
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 1,600,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	1,600,000

DESCRIPTION OF SOURCE ESTIMATE: Internal estimate from staff based on conceptual description of project

REQUESTED BY: M. Leonas
 Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT CHART
FY 2019-2023**



DEPARTMENT: PUBLIC UTILITIES Plant Maintenance
FUND: Water and Sewer

REQUEST	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE
Moss Springs Pump Station	\$168,000					
Replace # 625 Truck			\$40,000			
Replace Boom Truck				\$300,000		
Rehab/Coat Aquadale Rd. Tank		\$300,000				
Rehab/Coat East Albemarle Tank			\$300,000			
TOTALS	\$168,000	\$300,000	\$340,000	\$300,000	\$0	\$0

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES Plants Maintenance
Fund: Water and Sewer**

PROJECT TITLE: Moss Springs Pump Station **PRIORITY:** 1

PURPOSE: Renovate/replace

PROJECT DESCRIPTION

Pump Station was put in service in the mid 1970's. No significant repairs or maintenance has been done on the #1 or #3 pumps/motors in last 15-20 years. Due to population increase the #1 pump is no longer efficient to maintain current demand. Request would replace the #1 pump/motor with one the same size as the #2 pump /motor and upgrade the #3 pump. All the gate valves on suction side and discharge side of the pumps are inoperable preventing isolation for maintenance and thus need replacing.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING	\$ 23,000	
FY 2018-19	\$ 168,000	PURCHASE		
FY 2019-20				
FY 2020-21				
FY 2021-22		CONSTRUCTION	\$ 145,000	CURRENT REVENUE
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS		OTHER:		
TOTAL	\$ 168,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	168,000

DESCRIPTION OF SOURCE ESTIMATE: LKC Engineering

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



**Department: PUBLIC UTILITIES Plants Maintenance
Fund: Water and Sewer**

PROJECT TITLE: Replace #625 Truck	PRIORITY:	2
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PURPOSE: Replace

PROJECT DESCRIPTION

The #625 maintenance truck is a 2003 standard cab 2wd truck with 155,000 miles. Vehicle is experiencing increased maintenance frequency and is becoming unreliable. Replace with a 4wd truck with a service bed.

		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE	40,000	CURRENT REVENUE
FY 2019-20				
FY 2020-21	\$40,000	CONSTRUCTION		
FY 2021-22				
FY 2022-23				
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 40,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	40,000

DESCRIPTION OF SOURCE ESTIMATE: Internal estimate from J. Mesihemer based on current pricing

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Plants Maintenance

Fund: Water and Sewer

PROJECT TITLE: Boom Truck	PRIORITY:	3
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PURPOSE: Replace

PROJECT DESCRIPTION

Current boom truck is a 1997 with a 12 ton capacity boom. Truck and boom are experiencing increased service requirements and true capacity of boom may become an issue. Replace with a 20 ton boom truck that can provide additional capacity. This would assist the Electric Division in setting ground mount transformers as well as assist other departments if needed.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE	\$ 300,000	CURRENT REVENUE
FY 2019-20				
FY 2020-21		CONSTRUCTION		
FY 2021-22	\$ 300,000			
FY 2022-23				
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 300,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	300,000

DESCRIPTION OF SOURCE ESTIMATE: Jonathan Misenhiemer based on historical and current pricing trends

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Plants Maintenance
Fund: Water and Sewer

PROJECT TITLE: Rehab & Coat Elevated Water Tank - Aquadale Road		PRIORITY:		4
PURPOSE: Repair/Renovate				
PROJECT DESCRIPTION				
<p>The Aquadale Road elevated water storage tank has a capacity of 300,000 gallons. The tank has had no significant maintenance for the past 10-15 years. Signs of exterior corrosion are developing and can be seen from the ground. Condition of the interior of the tank is not known at this time but typically with the presence of exterior corrosion, interior corrosion above the water line is likely present. This project would involve sandblasting the interior and exterior of the tank to remove the existing coating system and corrosion. Any areas of significant corrosion will be repaired and the remaining metal surfaces will be prepared for the coating systems. After repair and preparation the appropriate coating systems will be applied to the interior and exterior of the tank. Given the configuration of the exterior tank surface and the proximity of the tank to the highway, the tank would be a good candidate for application of the City's branding scheme.</p>				
CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE	300,000	CURRENT REVENUE
FY 2019-20	\$300,000			
FY 2020-21		CONSTRUCTION		
FY 2021-22				
FY 2022-23		MISCELLANEOUS		
FUTURE YEARS				
TOTAL	\$ 300,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	300,000

DESCRIPTION OF SOURCE ESTIMATE: LKC Engineering

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017



**CITY OF ALBEMARLE
CAPITAL PROJECT REQUEST
FY 2019-2023**



Department: PUBLIC UTILITIES Plants Maintenance

Fund: Water and Sewer

PROJECT TITLE: Rehab & Coat Elevated Water Tank - East Albemarle **PRIORITY:** 5

PURPOSE: Repair/Renovate

PROJECT DESCRIPTION

The East Albemarle elevated water storage tank has a capacity of 200,000 gallons. The tank is located on East Main St. at its intersection with Parkway Dr. The tank has had no significant maintenance for the past 10-15 years. Signs of exterior corrosion are developing and can be seen from the ground. Condition of the interior of the tank is not known at this time but typically with the presence of exterior corrosion, interior corrosion above the water line is likely present. This project would involve sandblasting the interior and exterior of the tank to remove the existing coating system and corrosion. Any areas of significant corrosion will be repaired and the remaining metal surfaces will be prepared for the coating systems. After repair and preparation the appropriate coating systems will be applied to the interior and exterior of the tank. Given the configuration of the exterior tank surface, the tank would be a moderate candidate for application of the City's branding scheme.

CAPITAL COST PER YEAR		CAPITAL COST BREAKDOWN		
COMMITTED PRIOR TO FY 17-18		PLANNING, DESIGN, AND ENGINEERING		
FY 2018-19		PURCHASE	\$ 300,000	CURRENT REVENUE
FY 2019-20				
FY 2020-21	\$300,000	CONSTRUCTION		
FY 2021-22				
FY 2022-23				
FUTURE YEARS		MISCELLANEOUS		
TOTAL	\$ 300,000	OTHER:		
		OTHER:		
		OTHER:		
		TOTAL	\$	300,000

DESCRIPTION OF SOURCE ESTIMATE: LKC Engineering

REQUESTED BY: M. Leonas
Department Head

DATE: 12/1/2017

