
TOWN of CARY

North Carolina



FISCAL YEAR 2019 CAPITAL IMPROVEMENT BUDGET AND PLAN



TOWN OF CARY

OFFICIALS AND OFFICERS



Town Council

Harold Weinbrecht, Mayor
Lori Bush, At Large, Mayor Pro Tem
Don Frantz, District B
Ken George, District D
Jennifer Robinson, District A
Jack Smith, District C
Ed Yerha, At Large

Town Manager

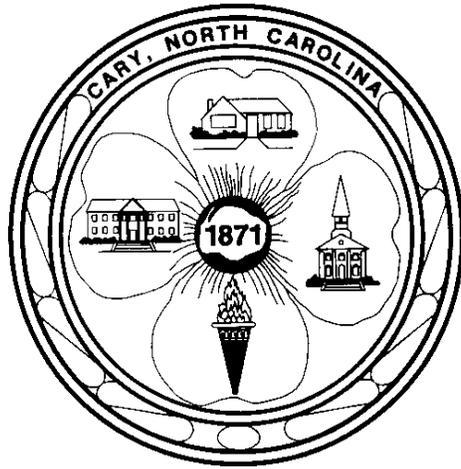
Sean R. Stegall

Department Directors

Dan Ault, Assistant Town Manager/Chief Innovation Officer
Michael Bajorek, Deputy Town Manager
Scot Berry, Development Services Director
Ted Boyd, Economic Development Director
Steve Brown, Water Resources Director
Allan Cain, Fire Chief/Interim Planning Director
Tony Godwin, Police Chief
Ken Hawley, Inspections and Permits Director
Scott Hecht, Public Works Director
Allison Hutchins, Assistant to the Town Manager
Lana Hygh, Director of Special Projects
Jerry Jensen, Transportation and Facilities Director
Virginia Johnson, Town Clerk
Doug McRaney, Parks, Recreation and Cultural Resources Director
Karen Mills, Chief Financial Officer
Susan Moran, Chief Strategic Communications Officer
Russ Overton, Deputy Town Manager/Chief Development Officer
Renee Poole, Chief Human Resources Officer
Nicole Raimundo, Chief Information Officer
Jamie Revels, Utilities Director
Christine Simpson, Town Attorney
Danna Widmar, Director of Special Projects

Financial Strategy Team

Robbie Lippard, Financial Strategy Analyst
Katie Lumb, Financial Strategy Analyst
Stacey Teachey, Financial Strategy Manager
Alex Terry, Financial Strategy Analyst



TOWN of CARY
FY 2019 Capital Improvements Budget and Plan

TABLE OF CONTENTS

OVERVIEW

If utilizing this document in PDF format, click on any item below to be taken to that page.

Vision, Mission Statement, Statement of Values 1
Imagine Cary – Cary Community Plan / Capital Strategic Initiatives 2-6
Capital Project Connections to the Cary Community Plan..... 7-8
Capital Budget Development Process / Overview..... 9-20
Changes to Recommended Capital Improvements Budget..... 21

BUDGET ORDINANCE

Utility Capital Improvements Budget Ordinance 23-25
Utility Capital Improvements - Attachment A Fees 26-30
General Capital Improvements Budget Ordinance..... 31-33
General Capital Improvements - Attachment A Fees 34-36

CIB SUMMARY

Capital Improvements Budget Summary 37-39
Utility Capital Reserve Fund Summary..... 40
Utility Capital Funding Sources/Expenditure Graphs..... 41
Utility Capital Improvements Budget – By Funding Source 42-43
General Capital Reserve Fund Summary..... 44
General Capital Funding Sources/Expenditure Graphs 45
General Capital Improvements Budget – By Funding Source 46-47
Description of Revenue/Funding Sources..... 48-59
Cumulative Operating Impacts of Capital Projects..... 60-65
Capital Project Spending Status - Active Projects 66-73
Closed or Pending Closure Projects 74-76

CIB PROJECTS

Utility Capital Improvement Projects
--Water Projects 77-96
--Sewer Projects..... 97-126

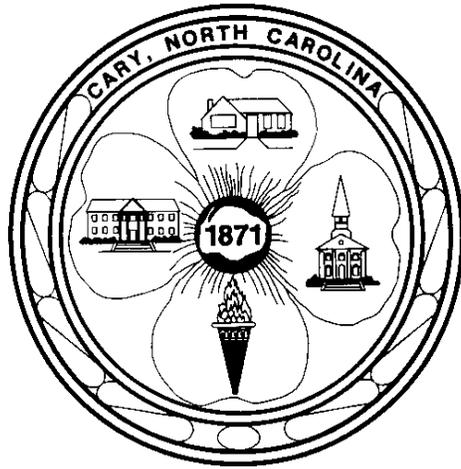
General Capital Improvement Projects
--Transportation Projects 127-142
--Fire Projects..... 143-144
--Parks, Recreation and Cultural Resources Projects 145-162
--General Government Projects 163-176
--Downtown Projects 177-179

TEN-YEAR PLAN

Capital Improvements Budget and Ten Year Plan Projects 181-195
State Transportation Improvement Program Budget Benefiting Cary..... 196

Appendix

Explanation of Acronyms 197-200
Glossary..... 201-209



VISION STATEMENT

Cary is a place where good neighbors form healthy neighborhoods in a green and vibrant community of friendly, caring people.

MISSION STATEMENT

At the Town of Cary we focus every day on enriching the lives of our citizens by creating an exceptional environment and providing exemplary services that enable our community to thrive and prosper.

STATEMENT OF VALUES

To achieve our mission we will uphold the following values:

1. Our organization exists to serve our **citizens**. We will be open, ensure access, encourage involvement and be accountable to our citizens.
2. **Employees** are our most important resource. We will attract and retain the best employees and invest in their personal and professional growth.
3. We will be **honest**, ethical and diligent. Our actions will comply with local, state and federal laws.
4. We will treat everyone with **dignity**, respect and fairness.
5. We will achieve the best results through effective **teamwork**, strategic partnerships, and community participation.
6. We will provide outstanding customer **service** that is polite, friendly, and responsive.
7. We value **creative** thinking and innovation. We will continue to be nationally recognized for excellence in local government.
8. We value **growth** that balances desired service levels, economic benefits, and continued stability for our community.
9. We are **cost-conscious**. We spend public funds responsibly and effectively to ensure the Town's short and long term financial strength.
10. We are committed to proactive, comprehensive **planning** to guide the future of our community.
11. We will preserve and protect our environment. We will be good **stewards** of our finite natural resources.

Adopted by Town Council August 22, 2006

IMAGINE CARY – THE CARY COMMUNITY PLAN

The Town of Cary recently completed the most ambitious long-range planning effort in our community's history by completely updating our Comprehensive Plan. The process, known as "Imagine Cary," was built on the values, needs and aspirations of our citizens and resulted in several years of work, unprecedented community input, and dozens of meetings and workshops. The process set out a long-term vision, policies, and strategic actions with a time horizon out to 2040 and resulted in the January 24, 2017 adoption of the Cary Community Plan. For more information about the Cary Community Plan, please visit <https://www.townofcary.org/projects-initiatives/cary-community-plan>.

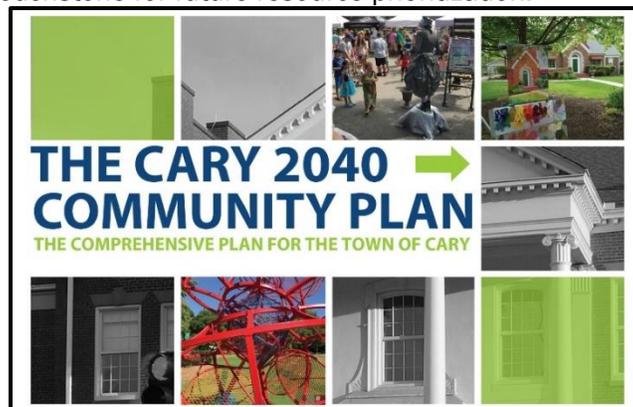
The Cary Community Plan, adopted January 24, 2017, is the new comprehensive plan for the Town of Cary. This plan is the result of several years of work, unprecedented community input, and dozens of meetings and workshops. It sets out a long-term vision, policies, and strategic actions with a time horizon out to 2040.

The Cary Community Plan consolidates and replaces several individual plans that guided Cary's growth over the past 20 years, including the:

- Land Use Plan
- Open Space Plan
- Northwest Area Plan
- Southwest Area Plan
- Southeast Area Plan
- Town Center Area Plan
- Bicycle Plan
- Pedestrian Plan
- Chatham Joint Land Use Plan
- Historic Preservation Master Plan
- Parks, Recreation and Cultural Resources Master Plan
- Comprehensive Transportation Plan

The Cary Community Plan covers the entire planning area of Cary, an area of nearly 53,000 acres.

The plan is divided into ten chapters, including an introductory Foundations and a closing Appendix chapter. Each chapter presents background information on challenges and opportunities facing Cary, followed by policy and intent statements addressing them. Chapters end with a set of strategic initiatives and actions to carry out the policy direction. Chapter 9, Act, combines all implementation steps in one place to guide upcoming activities. The following describes the eight core chapters upon which all Town departments' strategic focus areas and initiatives are based. As such, the Cary Community Plan is the touchstone for future resource prioritization.



THE CARY COMMUNITY PLAN

LIVE: Fostering Strong Neighborhoods



Cary Values:

Fostering Strong and Sustainable Neighborhoods

Cary will maintain existing strong residential areas as well as create new sustainable neighborhoods supported by mixed uses and activities. This includes additional residential choices for a variety of lifestyles, ages, cultures, and incomes organized in a walkable pattern.

Leveraging the Town's Regional Context

Cary will leverage the Town's location within the region and proximity to regional assets (RTP, RDU airport, higher education institutions, and nearby communities) yet continue to differentiate Cary as a unique place to live, work, play, and conduct business. Using effective collaborations with neighboring jurisdictions and institutions, as well as improved physical connections, will make Cary and the region stronger.

1. Maintain Neighborhood Character
2. Provide More Housing Choices for All Residents
3. Provide for More Housing Options in New Neighborhoods
4. Provide the Greatest Variety of Housing Options in Mixed Use Centers
5. Support Residential Development on Infill and Redevelopment Sites
6. Encourage and Support the Provision of Affordable Dwellings

WORK: Assuring Continuing Prosperity

Cary Values:

Fostering a Prosperous Economy and Fiscal Health

Cary will foster a prosperous, diverse economy that motivates and supports entrepreneurs, improves underutilized retail and office development, supports existing businesses, attracts new business development, and utilizes public-private partnerships to sustain the Town's fiscal health.



1. Grow a Sustainable and Diversifying Workforce
2. Enhance Locational Appeal to Businesses and Workers
3. Retain and Grow Existing Cary Businesses
4. Diversify Cary's Economy
5. Attract New, High Value Businesses
6. Attract and Nurture Small Businesses
7. Ensure the Economic Growth and Vitality of Downtown
8. Support the Locational Needs of New and Expanding Firms
9. Promote High Quality Education
10. Reserve and Provide Employment Sites in Selected Commercial Mixed Use and Destination Centers
11. Reserve and Provide Employment Sites in Traditional Office Parks
12. Transform Selected Office Parks into Employment Mixed Use Campuses

THE CARY COMMUNITY PLAN

SHOP: Creating Vibrant Destinations



Cary Values: Managing Future Land Use

Cary will manage land to create a distinctive, attractive, physical environment for our growing and diverse community while maintaining our predominant suburban character. Development should focus on creating and maintaining high-quality commercial areas and strong residential neighborhoods complemented by walkable mixed-use activity nodes that serve all age groups.

Encouraging Redevelopment and Infill Efforts

Cary will focus redevelopment efforts on underperforming land and building assets and focus new infill development on vacant areas that are already served by existing infrastructure. Older declining commercial centers and commercial areas are key redevelopment priorities, and downtown represents a good opportunity to invest in a way that creates an active, walkable mixed-use environment which yields greater economic value and is a point of pride for Cary.

1. Facilitate Redevelopment of Underperforming Commercial Centers
2. Focus Commercial Uses within Commercial Mixed-Use Centers, Destination Centers, Downtown, and Commercial Centers
3. Support the Development of a Limited Number of Destination Centers and Commercial Mixed-Use Centers

ENGAGE: Experiencing the Cary Community

Cary Values: Creating a Vibrant Arts and Cultural Environment

Cary will create a vibrant cultural and arts environment through performances, exhibits, festivals, and places.

Preserving Historic Resources

Cary will preserve sites, structures and traditions that help convey the history of Cary as a source of community pride.

Providing Extensive and High-Quality Parks and Recreation

Cary will provide extensive and high-quality recreation services and facilities as a signature of the community, helping to make Cary a desirable place to live, supporting strong property values, and promoting healthy living. Opportunities for recreation include a well-connected greenway network, an expansive system of parks and natural areas of all sizes, and a diversity of recreational facilities and offerings for residents and visitors of all ages and abilities.

1. Parks, Recreation & Cultural Resources Master Plan
2. Public Art Master Plan
3. Historic Preservation Master Plan



THE CARY COMMUNITY PLAN

SHAPE: Guiding Community Growth

Cary Values:

Managing Future Land Use

Cary will manage land to create a distinctive, attractive, physical environment for our growing and diverse community while maintaining our predominant suburban character. Development should focus on creating and maintaining high-quality commercial areas and strong residential neighborhoods complemented by walkable mixed-use activity nodes that serve all age groups.

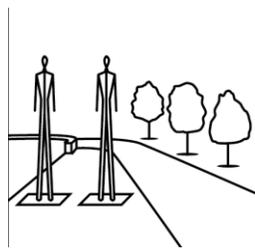


Encouraging Redevelopment and Infill Efforts

Cary will focus redevelopment efforts on underperforming land and building assets and focus new infill development on vacant areas that are already served by existing infrastructure. Older declining commercial centers and commercial areas are key redevelopment priorities, and downtown represents a good opportunity to invest in a way that creates an active, walkable mixed-use environment which yields greater economic value and is a point of pride for Cary.

1. Distribute Commercial Centers, Commercial Mixed-Use Centers, and Destination Centers Across Town
2. Focus the Most Intense Type of Development in Strategic Locations
3. Encourage Mixed Use Development
4. Support and Facilitate Redevelopment and Infill Development
5. Support the Revitalization of Targeted Redevelopment Corridors
6. Provide Appropriate Transitions between Land Uses
7. Provide Opportunities for a Limited Set of Non-Residential Uses Outside of Commercial Centers
8. Preserve and Maintain Cary's Attractive Appearance and Quality of Development

MOVE: Providing Transportation Choices



Cary Values:

An Efficient System for All Users

Cary will continue to provide an attractive network of streets and a wide range of functional and well-designed facilities for all mode choices – driving, walking, biking, and transit. This multimodal system will facilitate moving into, out of, and around the community with a design emphasis on people and the human experience.

1. Ensure Safety for All Users and Modes
2. Apply Multimodal Street Designs
3. Design Transportation Infrastructure to Address Land Use Context
4. Focus Investments on Improving Connections and Closing Gaps
5. Minimize Thoroughfare Widths
6. Improve Pedestrian and Bicycle Crossings
7. Target Transit Investments
8. Ensure a Well-Maintained System

THE CARY COMMUNITY PLAN

SERVE: Meeting Community Needs

Cary Values:

Respecting Nature and the Environment

Cary will preserve and protect our environment. This includes being good stewards of our finite natural resources. Paramount is the conservation of water resources and the protection of watersheds.



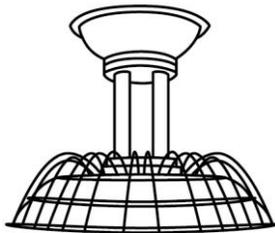
Providing Comprehensive and Top-Quality Facilities and Infrastructure

Cary will provide comprehensive facilities and utility services to residents, businesses and institutions. Public infrastructure is provided in conjunction with development, coordinated with private investments, and is well-maintained.

Providing High Quality Public Services

Cary will provide high quality public services and customer service that continue the Town's legacy of excellence, including being one of the safest mid-sized communities in the nation. The Town's quality services yield a clean and attractive community, a reputation for open communication and responsiveness, and a supportive environment for residents and businesses.

1. Provide Services and Facilities for Current and Future Generations That Balance High Quality and Affordability
2. Provide Safe, Reliable Water and Wastewater Service
3. Encourage Environmentally Responsible Stormwater Management
4. Ensure Long-Term, Cost-Effective, and Environmentally-Responsible Disposal of Waste
5. Protect and Restore Open Space and the Natural Environment
6. Improve Air Quality
7. Improve Energy Efficiencies and Sustainable Energy Practices
8. Integrate Concepts of Resiliency and Adaptation into Planning Practices
9. Preserve and Protect the Urban Tree Canopy
10. Support Local Food Systems
11. Support Expansive and Cutting-Edge Information Technology Infrastructure
12. Provide Exemplary and Timely Emergency Services



ACT: Moving from Vision to Reality

1. Apply the Cary Community Plan Policies
2. Monitoring the Cary Community Plan Performance
3. Amending the Cary Community Plan

Town of Cary FY 2019 Capital Project Connections to the Cary Community Plan

Project Category	Cary Community Plan Chapter	Project Name	Page # (linked in PDF)
Downtown	Shape	DT - Downtown Business Improvement District	178
Downtown	Shape	DT - Downtown Improvements	179
Fire	Serve	Aerial Ladder Replacement - #1978 and #1997	144
General	Live	AH - Downtown Rehab and Façade Improvement Program	165
General	Live	AH - Minimum Housing Demolition	166
General	Live	AH - Owner Occupied Housing Rehabilitation	167
General	Serve	ADA Improvements at Town Facilities	164
General	Serve	Facility Painting Interior and Exterior	168
General	Serve	Fleet Management - Service Vehicle/Response	169
General	Serve	Heavy Equipment Replacement	170
General	Serve	Historic Preservation Implementation Activities	171
General	Serve	Storm Drainage Project - Private Assistance	172
General	Serve	Storm Drainage Project - Town Properties	173
General	Serve	Stormwater Condition Assessment and Rehabilitation Program	174
General	Serve	Technology Implementation - Salesforce	175
General	Serve	Upgrade Pedestrian Crossings (Relocation of Push Buttons)	176
Parks	Engage	Athletic Field Fencing Amenities Replacement	146
Parks	Engage	Athletic Field Fencing Repair/Replacement	147
Parks	Engage	Athletic Field Lighting Replacement	148
Parks	Engage	Greenway Pedestrian Structure Repair	149
Parks	Engage	Greenway Resurfacing Projects	150
Parks	Engage	Higgins Greenway - Phase III - Maynard to Downtown	151
Parks	Engage	Koka Booth Amphitheatre Improvements	152
Parks	Engage	Park and Greenway Renovations	153
Parks	Engage	Playground Surface Repairs/Replacements	154
Parks	Engage	PRCR Facility Improvements	155
Parks	Engage	Public Art - Higgins Greenway - Maynard to Downtown	156
Parks	Engage	Public Art - Western Cary Community Facility	157
Parks	Engage	Tennis Court Fencing Repair/Replacement	158
Parks	Engage	Tennis Court Renovations	159
Parks	Engage	Thomas Brooks Park Field Drainage	160
Parks	Engage	WakeMed Soccer Park Facility Improvements - Interlocal Small Projects	161
Parks	Engage	Western Cary Disc Golf	162
Sewer	Serve	Cleaning and Video Survey of Sewer Interceptors	98
Sewer	Serve	Extend Reclaimed Water Mains	99
Sewer	Serve	Force Main Easement Clearing Project - Survey and Clear	100
Sewer	Serve	Green Level Sewer Interceptor Odor Control Improvements	101
Sewer	Serve	Heavy-Duty Equipment Replacement - Sewer	102
Sewer	Serve	I-40 Pump Station Improvements	103
Sewer	Serve	Infrastructure GIS Asset Data - Wastewater	104
Sewer	Serve	KCPS and MBRPS Force Main Parallel Along Green Level Church Road	105
Sewer	Serve	Morrisville Carpenter Road Reclaimed Water Line	106
Sewer	Serve	NCWRF - HVAC Replacements	107
Sewer	Serve	NCWRF - Partial and Full Diffused Air System	108
Sewer	Serve	Pump Station Variable Frequency Drive Replacements	109
Sewer	Serve	Reclaimed Water Line Oversizings	110
Sewer	Serve	Roof Assessments and Rehabilitation - Sewer	111
Sewer	Serve	Sanitary Sewer Oversizings and Related Infrastructure Acceptance Requirements	112
Sewer	Serve	SCADA at the Tier II Wastewater Pump Stations	113
Sewer	Serve	SCWRF - Aeration Basin Recycle Pump Replacements	114
Sewer	Serve	SCWRF - Clarifier Equipment Repair and Replacement	115
Sewer	Serve	SCWRF - Generator Auto Transfer Switch Replacement	116
Sewer	Serve	SCWRF - Plant Drain Pump Station Improvements	117

Town of Cary FY 2019 Capital Project Connections to the Cary Community Plan

Project Category	Cary Community Plan Chapter	Project Name	Page # (linked in PDF)
Sewer	Serve	SCWRF - Polishing Pond Liner Replacement	118
Sewer	Serve	SCWRF - Variable Frequency Drive Replacement	119
Sewer	Serve	Sewer Flow Management Modeling Scenarios	120
Sewer	Serve	Sewer System Repair/Rehabilitation	121
Sewer	Serve	Wastewater Pump Station Improvements	122
Sewer	Serve	Wastewater Pump Station Parallel Force Mains	123
Sewer	Serve	West Cary Pump Station Trash Dumpster Enclosure	124
Sewer	Serve	Winding Pine Regional Pump Station, Gravity Sewer and Force Main	126
Sewer	Serve	WWWRF - Beaver Creek Pump Station Bar Screen Addition and Trash Dumpster Enclosure	125
Transportation	Move	Bicycle Facilities Implementation	128
Transportation	Move	Carpenter Fire Station Road /CSX Rail Grade Separation	129
Transportation	Move	Carpenter Fire Station Road Widening (NC55 to East of Cameron Pond)	130
Transportation	Move	GoCary Bus Stop Improvements	131
Transportation	Move	GoCary Capital Amenities	132
Transportation	Move	GoCary Downtown Multimodal Station	133
Transportation	Move	GoCary Wayfinding Signage	134
Transportation	Move	Lake Pine Drive Road Widening and Sidewalk Improvements	135
Transportation	Move	Reedy Creek Road Widening - NE Maynard Road to N Harrison Avenue	136
Transportation	Move	Sidewalk and Pedestrian Improvements	137
Transportation	Move	Signal System - Upgrade Traffic Signal Controllers (Connected Vehicles)	138
Transportation	Move	Spot Improvements (Based on Levels of Service, Safety and Citizen Concerns)	139
Transportation	Move	Street Improvement Project	140
Transportation	Move	Street Storm Drainage System Rehabilitation	141
Transportation	Move	Thoroughfare Street Lights	142
Water	Serve	CAWTF - Chemical Feed System Upgrades of Aging Equipment	79
Water	Serve	CAWTF - Generator Switchgear Upgrades	80
Water	Serve	CAWTF - New Heavy Duty Equipment	78
Water	Serve	CAWTF - Phase III Expansion	81
Water	Serve	CAWTF - Process Basin Rehabilitation/Restoration	82
Water	Serve	CAWTF - Process Conversion to Ozone/Biofiltration	83
Water	Serve	CAWTF - Security Upgrades	84
Water	Serve	Extend and Relocate Water Mains and Install Valves	85
Water	Serve	Heavy Equipment Replacement - Water	86
Water	Serve	Holt Road to Davis Drive Water Line Connection	87
Water	Serve	Jenks-Carpenter/Holt Road Water Line Reinforcement	88
Water	Serve	Louis Stephens Drive Extension Water Line (U-5827)	89
Water	Serve	Optimist Farm Road Water Line - West	90
Water	Serve	Roof Assessments and Rehabilitation - Water	91
Water	Serve	Stephenson Road Water Line and Ten Ten Road Water Line West	92
Water	Serve	Upgrade Water Lines	93
Water	Serve	Water Line Oversizings and Related Infrastructure Acceptance Requirements	94
Water	Serve	Water Main Condition Assessment	95
Water	Serve	Water System - Critical Water Line Locating and Testing	96

BUDGET DEVELOPMENT PROCESSES

CAPITAL BUDGET

Developing the Capital Budget and Plan

Each year, staff prepares a capital budget and ten year plan for Town Council's consideration. The Capital Improvements Budget (CIB) and ten-year Capital Improvement Plan (CIP) are recommendations to help meet Council policy directives in the areas of service delivery; infrastructure maintenance and development; financial conditions; and projects needed to further enhance the quality of life in Cary. The guiding policy document driving the development of the Town's CIB/P is the Cary Community Plan, which was adopted on January 24, 2017. This plan sets out a long-term vision, policies, and strategic actions with a time horizon out to 2040. For more information about the Cary Community Plan, please visit <https://www.townofcary.org/projects-initiatives/cary-community-plan>.

The CIB presents Council-adopted revenue and expenditure amounts for FY 2019, while the Plan identifies future year funding needs for FYs 2020 – 2029. Staff matches or “programs” estimated dollars to specific projects for the four years following the budget year (FYs 2020 – 2023); however, these figures are strictly for planning purposes as only the budget year is officially adopted annually. The remaining six years of the CIB/P (FYs 2024 – 2029) indicate future infrastructure needs that do not have estimated funding sources identified.

Departments and divisions submit their capital budget and plan requests to the Financial Strategy Office by January 31 each year. Capital requests describe each infrastructure need and identify both the total and annual dollar amounts needed to fully fund each project. Operating costs are also estimated. As with the development of the operating budget, the vision, priorities and values of the Imagine Cary Community Plan influence the development of capital project requests.

While department and divisional staff finalize their capital budget and plan requests, the Financial Strategy team within the Finance Department estimates revenue for the current and four programming fiscal years. The Financial Strategy Team then matches funding to requests and submits a draft capital improvements budget and plan to the Department Directors for review.

In February and March, the Department Directors meet frequently to discuss and adjust the draft capital budget and plan. Decisions on whether and when to fund specific projects are made collaboratively with Department Directors focusing on how decisions benefit and impact the Town as a whole rather than a single department. This process ultimately yields the Department Director Recommended CIB/P which is submitted to the Town Manager for consideration.

The Town Manager's Recommended Capital Improvements Budget and Plan

The Town Manager reviews the Department Director Recommended CIB/P in April and meets with the Financial Strategy Team periodically to receive additional background information and address any follow-up questions. Any modifications made by the Town Manager are incorporated at this point and the document becomes known as the Manager's Recommended Capital Improvements Budget and Plan. This document is officially presented to Town Council with the operating budget at the first Town Council meeting in May and is also available to the public for review alongside the operating budget.

The Adopted Budget

The Town Manager and staff provide an overview of the CIB/P and focus Council discussions on significant infrastructure decisions during Council worksessions held in May and June. Council directives are confirmed during these meetings for incorporation into the budget.

Addressing Emerging Needs Throughout the Year

Once a new fiscal year begins, Finance Department staff regularly monitor revenue and expenditure activity and report this information to Town Council at quarterly meetings. Council may approve revenue and expenditure budget adjustments based on the year's experience at these meetings as well. Any financial resources required to support emerging infrastructure or major equipment needs or opportunities, are also presented to Town Council for consideration during "quarterlies."

Public Input

Citizens and businesses are encouraged to share their budget priorities with Town Council and staff at any point throughout the fiscal year. All input received is shared with Council through quarterly reporting. The Town offers an array of public input communication options including email, voicemail, Twitter, Facebook and the opportunity to appear in person at a Public Speaks Out session at any Town Council meeting, or at budget specific public hearings held in May and June.

FISCAL YEAR 2019 SUMMARY BUDGET SCHEDULE

Milestone	Date
Town Council Quarterly Meeting	November 14, 2017
Budget Process Information Session for Departmental Staff	November 30, 2017
Capital Budget Requests Due	January 31, 2018
Council-Staff Retreat and Quarterly Meeting	February 9, 2018
Capital Budget/Plan Collaborative Work - Department Directors	February 27 - March 26, 2018
Operating Requests Due	February 28, 2018
Operating Budget Collaborative Work - Department Directors	March 16 - March 27, 2018
Department Director Recommended Operating and Capital Budgets to Town Manager	April 6, 2018
Official Presentation of Budget at Town Council Meeting	May 3, 2018
Town Council Quarterly Meeting and First Budget Worksession	May 10, 2018
Second Council Budget Worksession	June 7, 2018
Public Hearing on Budget	June 14, 2018
Council Budget Adoption	June 28, 2018

CAPITAL IMPROVEMENTS BUDGET OVERVIEW

Capital Budgeting Practices

The CIB identifies revenue sources and recommendations for project funding. Projects included in the CIB/CIP are typically tangible or intellectual property assets with a value of more than \$25,000 and a useful life of over three years. Exceptions have been made to this rule on occasion for practical reasons.

The CIB contains revenue and expenditure budget amounts for each FY 2019 approved capital project, and while the CIP identifies future year projects for fiscal years 2020 through 2029, figures noted for fiscal years 2020 through 2029 are for planning purposes only and are not appropriations for those years. All amounts beyond FY 2019 are staff's best estimate of future project needs and costs. Projects will be adjusted, and in some cases deleted, as situations and needs change throughout the course of the ten year planning period.

Capital projects are grouped under the following categories:

Utility Capital

Water
Sewer

General Capital

Transportation
Fire
Parks, Recreation & Cultural Resources (PRCR)
General Government
Downtown

Fiscal Year 2019 marks the 18th year that the Town has produced a rolling ten-year capital improvements planning document. A ten-year planning tool of this magnitude has two significant benefits. First, it assists the Town in identifying potential projects necessary to meet the long-term goals of the community. Second, it gives Town Council and staff a view of future infrastructure needs and assists them in understanding the level of funding necessary to fulfill those needs.

The Fiscal Year 2019 budget process is the fourth one where the Town has limited planned appropriations in the four years following the budget year to the amount of funding projected to be annually available. Projects identified for FYs 2024 – 2029 are more likely to change in scope and timing. Staff annually evaluates each project and adjusts the CIB/CIP to reflect current expectations for the future.

Projects in the FY 2019 CIB year are adopted into the applicable project ordinance. This distinction means that any project-related contract entered into by the Town is regarded as a continuing contract for which funds are considered obligated throughout the term of the project.

The capital budgeting process is initiated prior to the annual operating budget so that maintenance and staffing impacts associated with requested projects may be considered during operating budget development. The capital improvements budget process also includes itemizations of staffing, operating, maintenance and start-up costs for all projects within the CIP. This data informs staff and Council of recurring cost impacts and estimated total resource needs throughout the multi-year forecast.

Capital Funding Principles

The Town's FYs 2019 – 2029 capital improvements budget and plan focuses on core infrastructure maintenance, necessary infrastructure improvements, and prior commitments and mandates. Projects were chosen based not only for their alignment with the Cary Community Plan, but also their ability to yield a capital improvements budget/plan that adheres to the following four funding principles:

Funding Principle: Utilize as little debt as possible to minimize additional debt service obligations

Financial goals established by Town Council in March 2008 guide staff in the management of areas such as operating fund balances and debt service. These goals establish expectations regarding minimum levels (floors) for operating fund balance and maximum levels (ceilings) for debt service. The approved debt service target directs that general (non-utility) debt service, or the repayment of borrowed funding, should not exceed an amount equal to 15% of total approved general operating expenditures and debt service for a given budget year.

Typically, the Town of Cary utilizes a combination of general obligation bond debt, installment-purchase debt, and revenue bond debt to fund major infrastructure needs.

Revenue bond debt is often utilized to support water and sewer projects. Revenue bond debt is secured by the Town's utility revenues which are dedicated, non-tax revenue sources. Utility rate increases may be used if necessary to generate the additional revenue needed to afford the incremental debt service associated with revenue bond issuance.

Funding Principle: Maximize the use of existing capital reserve fund balances

Fund balance represents monies which remain unspent after all budgeted expenditures have been made. Capital reserve fund balance accumulates in the general and utility capital reserve funds in two ways:

- through budget savings in completed projects
- through revenue collections that are either greater than estimated earnings or are intentionally not appropriated (utilized) within the fiscal year they are earned.

Funding Principle: Minimize reliance on FY 2019 capital reserve revenues

The general and utility capital reserve funds each have dedicated revenue sources. These revenue sources are categorized as either restricted or unrestricted. Restricted revenues can only be applied to specific types of projects. Examples of restricted revenues include developer fees, payments made by developers in lieu of infrastructure construction, interlocal funds, vehicle license fees and Powell Bill distributions from the state. Unrestricted revenues are not specific to a certain type or category of project. These revenues can be applied to any type of project within either the general capital or utility capital designation. Investment income and utility franchise fees are examples of unrestricted capital reserve revenue sources. The Town minimizes the use of current year capital reserve revenues to limit the risk of revenue shortfall from variable sources.

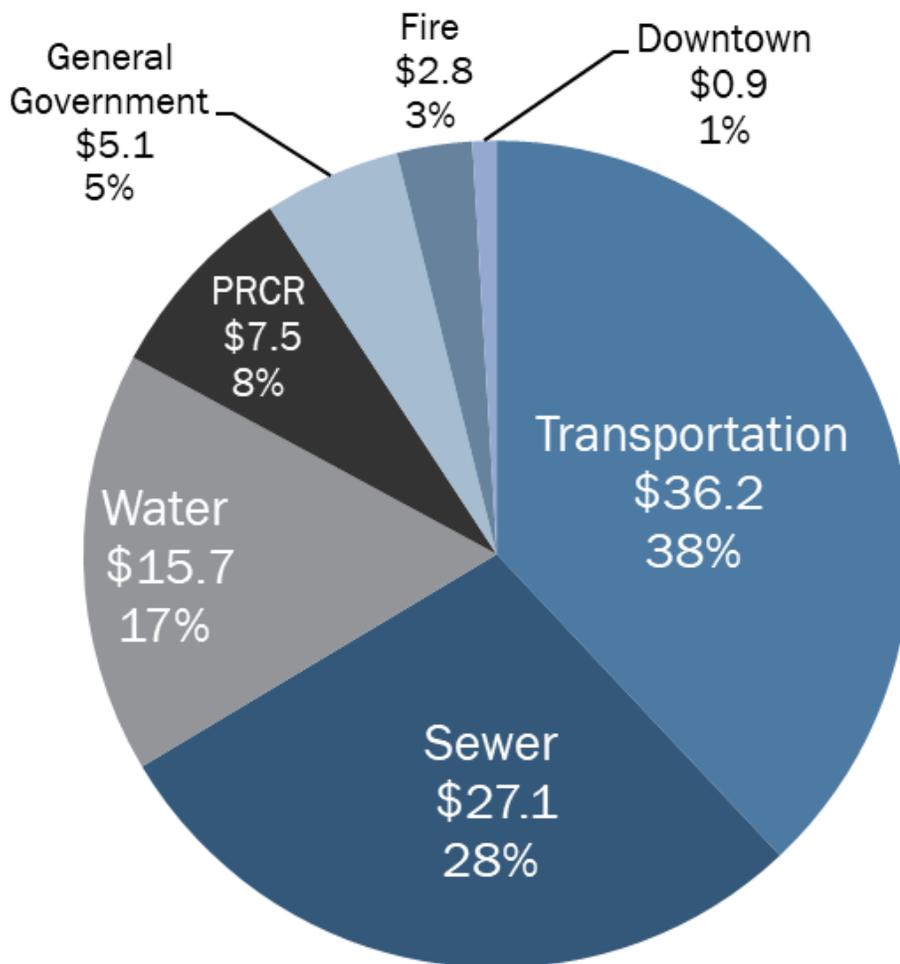
Funding Principle: Limit transfers from the general and utility operating funds for capital purposes

Transfers from the Town's operating funds (the general fund and the utility fund) are funding sources that can be directed toward one-time capital needs. Staff monitors the amount of available fund balance (or savings) within the operating funds throughout the course of each fiscal year. Project funding needs are evaluated during the budget process and operating fund transfers of this "one time" funding source are conservatively applied to support capital needs.

By the Numbers - The FY 2019 Capital Improvements Budget

The \$95,276,374 Fiscal Year 2019 capital improvements budget (CIB) represents a 39% increase from the FY 2018 adopted CIB. The primary reason for this increase relates to the timing of various sewer, transportation, and fire projects which led to a greater funding need in FY 2019 versus FY 2018.

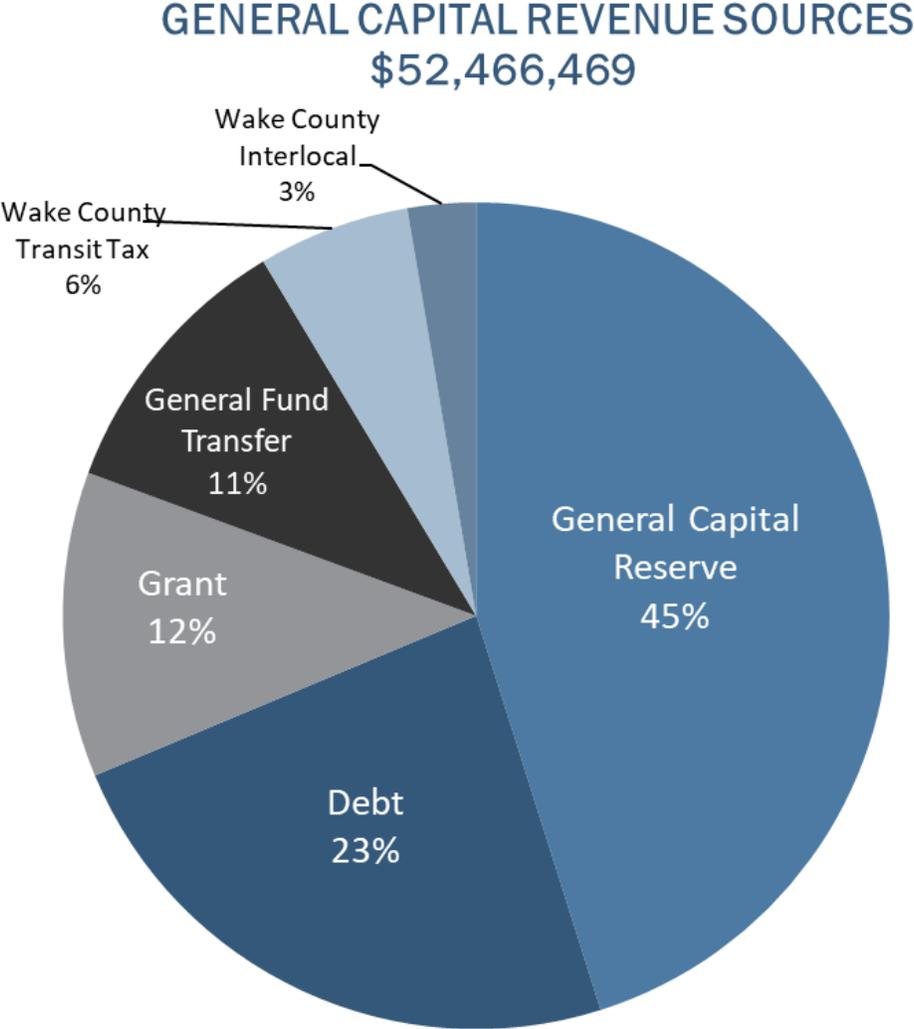
TOTAL FY 2019 CAPITAL BUDGET \$95,276,374



General Capital Project Funding

FY 2019 general capital project appropriations total \$52,466,469. These appropriations are supported by a variety of funding sources, including:

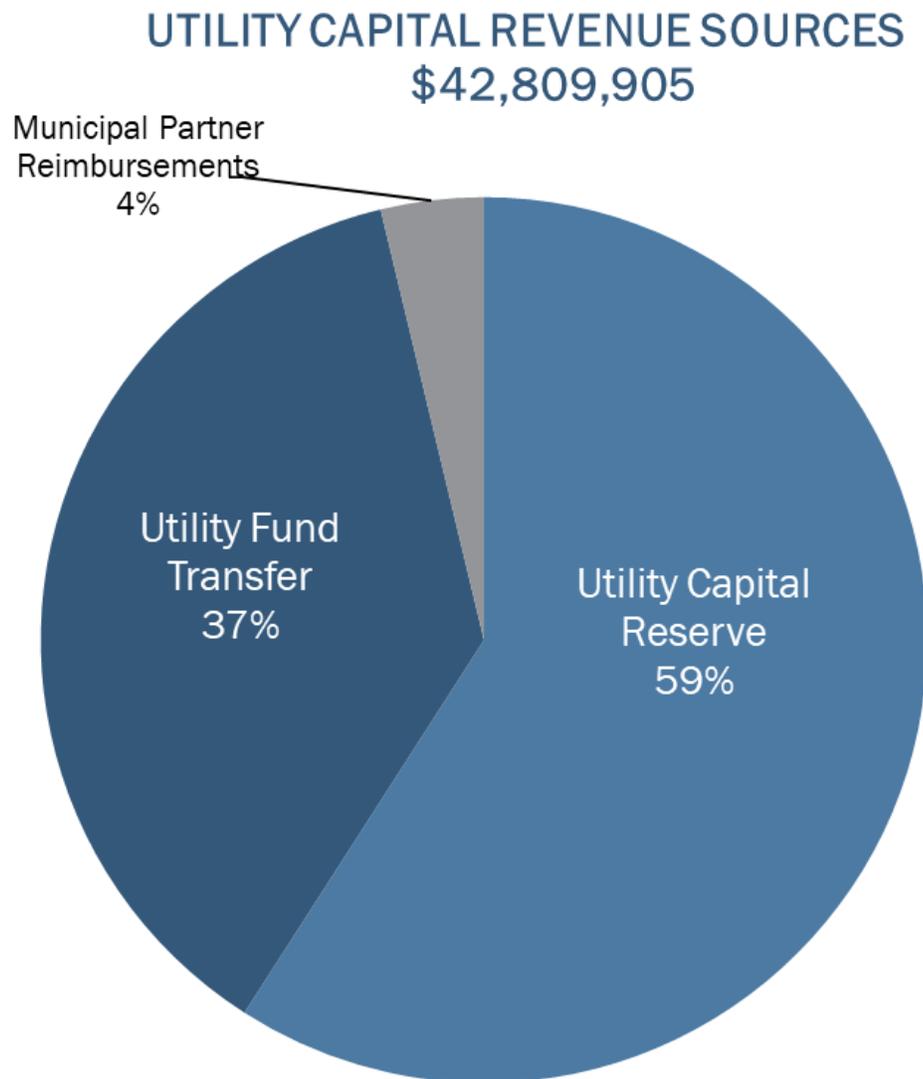
- \$ 23.7 million of general capital reserve revenue and fund balance appropriations
- \$ 12.3 million of debt funds
- \$ 6.3 million of grant funding
- \$ 5.7 million of general fund transfer funding
- \$ 3.1 million of Wake County Transit tax funds
- \$ 1.4 million of Wake County interlocal funding



Utility Capital Project Funding

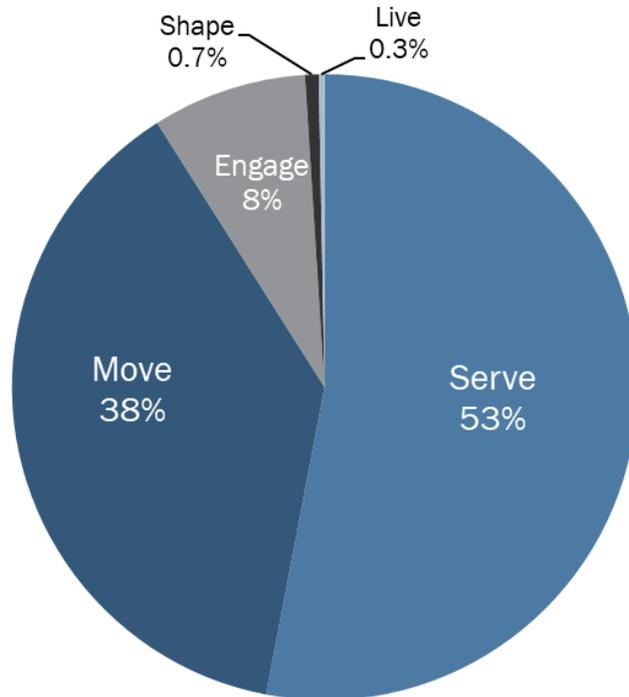
Utility capital project recommended appropriations total \$42,809,905 in FY 2019. There are only three primary funding sources utilized to make these appropriations possible:

- \$25.3 million of utility capital reserve fund balance appropriations
- \$15.9 million of utility fund transfer funding
- \$1.6 million of municipal partner reimbursements



FY 2019 Capital Projects – Where Imagination and Infrastructure Planning Come Together

FY 2019 CAPITAL PROJECTS BY CARY COMMUNITY PLAN CHAPTER



The \$95.3 million FY 2019 capital appropriation supports a wide variety of projects aligned with the opportunities, values and policy directions set forth by the Cary Community Plan. Having presented the Town's funding principles, practices and available recommended revenue sources guiding the development of the FY 2019 CIB, it's important to remember that the projects funded in this budget aren't simply infrastructure improvements. Rather, they are actions that directly support the vision set forth by our guiding policy document.

The following table presents the total FY 2019 capital budget by the thematic chapters of the Cary Community Plan. The *Serve*, *Move* and *Engage* themes represent 99% of the Town's FY 2019 capital appropriations. The following sections provide a closer look at a number of projects (or actions) funded in the budget

year. For detailed information on every project funded in FY 2019, please see the CIB Projects section of this document.

SERVE

The *Serve* theme within the Cary Community Plan focuses on the Town's responsibility to plan and provide essential public services to residents and businesses. Water, sewer, police, fire, storm drainage, general Town facility maintenance and technology infrastructure projects are all examples of actions the Town takes to serve its community in the best manner possible. FY 2019 appropriations to the *Serve* theme total \$50,289,905 making up 53% of the year's total capital budget.

FY 2019 Serve Highlights

- \$11,000,000 Winding Pine Pump Station, Gravity Sewer, and Force Main (Sewer)
- \$ 5,600,000 NCWRF – Partial and Full Diffused Air System (Sewer)
- \$ 5,000,000 Upgrade Water Lines (Water)
- \$ 4,000,000 CAWTF Process Conversion to Ozone / Biofiltration (Water)
- \$ 2,750,000 Aerial Ladder Truck Replacement – #1978 & #1997 (Fire)
- \$ 700,000 Stormwater Condition Assessment / Rehabilitation (General Government)
- \$ 600,000 Stormwater Drainage Project – Town Properties (General Government)
- \$ 550,000 Stormwater Drainage Project – Private Assistance (General Government)
- \$ 500,000 ADA Improvements at Town Facilities (General Government)

MOVE

The Cary Community Plan's *Move* theme recognizes that Cary has a strong existing transportation network with well-designed streets, good sidewalk coverage, a variety of bicycle facilities and an efficient transit system. The goal of the *Move* segment of the plan is to ensure that continued investment in infrastructure and implementation of policies improves mobility for Cary residents, workers and visitors. The Town's transportation capital project category supports this goal. FY 2019 appropriations to the *Move* theme total \$36,179,969 making up 38% of the year's total capital budget.

FY 2019 Move Highlights

- \$8,743,969 Carpenter Fire Station Rd/CSX Rail Grade Separation
- \$7,100,000 Street Improvement Project
- \$6,720,000 Reedy Creek Rd Widening – NE Maynard Rd to N Harrison Ave
- \$4,000,000 GoCary Downtown Multimodal Station
- \$3,150,000 Carpenter Fire Station Rd Widening (NC 55 to E of Cameron Pond)
- \$1,750,000 Sidewalk and Pedestrian Improvements

ENGAGE

The *Engage* theme is built upon the Town's Parks, Recreation and Cultural Resources Master Plan, the 2012 Public Art Master Plan and the Historic Preservation Master Plan which present the Town's policies for each of these areas.

Recent surveys have shown that Cary residents place a high value on the Town's parks and recreation facilities and that making improvements and/or renovating existing facilities is a high priority. Due to the local trend showing an aging and culturally diversifying population, Cary will strive to enhance recreational opportunities through programming (such as fitness, heritage, environmental education and science, technology, engineering and math education, and therapeutic and specialized recreation for seniors) and the exploration of new facilities to meet the growing and changing recreational needs.

The Parks, Recreation and Cultural Resources (PRCR) project category, along with elements of the general government project category, support the Town's *Engage* efforts. FY 2019 appropriations to the *Engage* theme total \$7,531,500 making up 8% of the Town's total capital budget.

FY 2019 Engage Highlights

- \$3,100,000 Higgins Greenway Phases III – Maynard to Downtown
- \$1,400,000 WakeMed Soccer Park Facility Improvements – Interlocal Small Projects
- \$ 440,000 Athletic Field Lighting Replacement
- \$ 365,000 Park and Greenway Renovations
- \$ 350,000 Koka Booth Amphitheatre Renovations
- \$ 320,000 Greenway Resurfacing Projects

SHAPE

Once a small crossroads town, the Town of Cary has grown to be a mid-sized community of national distinction. Since 1990, Cary's growth tripled from more than 43,000 in 1990 to more than 133,000 in 2010, making it the seventh most populated municipality in North Carolina. While the 5% yearly growth rate experienced over the last few decades is expected to decline, the Town is projected to continue to grow. By 2040, regional projections suggest that the Town will reach a population of 193,000. The Town has an opportunity today to define the way in which new housing, employment, shopping, and public services are provided to the new 50,000 residents that will likely call Cary home in the future.

Town-wide growth has propelled the Cary community forward and created high-value living and working options. All the while, the downtown area continues to maintain its historic character and central civic focus. Downtown has been one of the primary areas in Cary for focused investment. Recent efforts to bring greater vitality and activity to Cary's downtown have resulted in strategic public investments that have improved and modernized street infrastructure, revitalized historic buildings, and enhanced civic space for the Town's residents and visitors. Today, business representatives and community members are recognizing the need for downtown expansion and redevelopment that builds off of the area's existing assets and adds more dining, entertainment, housing, and employment options in Downtown Cary. Many opportunities exist to transform downtown into a vibrant destination that accommodates live, work, play, and learn opportunities. A short walk between Cary's unique destinations, diverse supporting neighborhoods, and a future downtown regional transit hub would make it easier for workers and residents to access opportunities in and around the heart of Cary.

The downtown project category supports the Town's capital-oriented *Shape* efforts. FY 2019 appropriations to the *Shape* theme total \$850,000 making up approximately 0.7% of the Town's total capital budget. Since FY 2011, the Town has appropriated over \$28 million for downtown revitalization infrastructure initiatives.

FY 2019 Shape Highlights

- \$500,000 DT – Downtown Improvements
- \$350,000 DT – Downtown Business Improvement District

LIVE

The *Live* theme focuses on ensuring that there are adequate housing choices for Cary's changing population, while maintaining the traditional character of Cary.

Cary has a national reputation as being a premier suburban community located within the heart of the Research Triangle Region. The Town has been very successful at providing high-quality single-family housing for families in desirable neighborhoods. The challenge moving forward is to provide quality, housing options in convenient locations that can serve households seeking a different lifestyle in Cary.

Another factor influencing the *Live* theme is the fact that Cary had a significant housing boom over the last two decades, comprising nearly 90% of the housing stock in Cary's neighborhoods. In 2013, the Town had approximately 4,000 homes that were more than 40 years old, most of them located proximate to downtown. By 2032, it is estimated that 23,000 homes will be 40 years old. Looking long-term, these aging neighborhoods will need maintenance and investment to maintain attractiveness to new home buyers and renters.

The general government capital project category supports the Town's *Live* efforts. FY 2019 appropriations to the *Live* theme total \$425,000 making up approximately 0.3% of the Town's total capital budget. The Town also receives significant funding from the Community Development Block Grant program for affordable housing initiatives which are reflected in the Town's annual operating budget.

FY 2019 Live Highlights

- \$300,000 AH – Owner-Occupied Housing Rehabilitation Program
- \$100,000 AH – Downtown Rehab and Façade Improvement Program

CHANGES TO FISCAL YEAR 2019 RECOMMENDED CAPITAL IMPROVEMENTS BUDGET

The FY 2019 recommended capital budget, as modified by the changes identified below, was adopted by the Cary Town Council for consideration at its regularly scheduled meeting on June 28, 2018.

General

1. Incorporate the following technical updates in Section 12 Other Transfers and Adjustments of the general capital ordinance. Items a and b add an additional \$316,000 to the ST1204 Carpenter Fire Station Road/CSX Grade Separation project. Item c adjusts funding sources within the indicated projects but does not increase or decrease either project's budget.
 - a. Transfer an additional \$256,000 of 2017A General Obligation Bond proceeds from the completed ST1206 Green Level Church Road Widening project to the ST1204 Carpenter Fire Station Road/CSX Grade Separation project
 - b. Transfer \$60,000 of vehicle license fee funding from the completed ST1206 Green Level Church Road Widening project the ST1231 Cary Parkway/High House Road Intersection project
 - c. Transfer an additional \$90,000 of interlocal funds in WakeMed Soccer Park Small Projects to the PR1193 Cary Tennis Park project. Transfer an additional \$90,000 of PRCR payment in lieu funding from PR1193 to WakeMed Soccer Park Small projects

Utility

2. Incorporate the following technical updates in Section 9 Other Transfers and Adjustments of the utility capital ordinance. Each of these adjustments allows a portion of available funding within the noted project balances to be returned to fund balance for future use.
 - a. Reduce the WT1252 Arthur Pierce Road Water Line project by an additional \$100,000 bringing total funds returning to fund balance to \$250,000
 - b. Reduce the WT1281 Tryon Road Water line Upsizing project by an additional \$100,000 bringing total funds returning to fund balance to \$160,000



UTILITY CAPITAL IMPROVEMENTS BUDGET ORDINANCE

FISCAL YEAR 2019

BE IT ORDAINED by the Town Council of the Town of Cary, North Carolina, that the following Utility Capital Improvements, anticipated revenues and project appropriations and Utility Capital Reserve Fund Budget, are hereby adopted for the operation of the town government and its activities for the fiscal year beginning July 1, 2018 and ending June 30, 2019.

SUMMARY	
Water Capital Improvements Fund	\$15,687,310
Sewer Capital Improvements Fund	27,122,595
Total	\$42,809,905

Section 1. Water Capital Improvements Fund Projects \$15,687,310

REVENUES

RESTRICTED FUND BALANCE	\$3,367,310
UNRESTRICTED FUND BALANCE	2,665,650
UTILITY FUND TRANSFER	8,080,000
MUNICIPAL REIMBURSEMENT - TOWN OF APEX	1,574,350
TOTAL REVENUES	\$15,687,310

Section 2. Sewer Capital Improvements Fund Projects \$27,122,595

REVENUES

RESTRICTED FUND BALANCE	\$13,297,246
UNRESTRICTED FUND BALANCE	5,979,374
UTILITY FUND TRANSFER	7,830,000
MUNICIPAL REIMBURSEMENT - TOWN OF APEX	15,975
TOTAL REVENUES	\$27,122,595

Section 3. Utility Capital Reserve Fund Budget

The following Revenues and Inter-Fund Transfers are hereby authorized:

REVENUES

WATER DEVELOPMENT FEE	\$2,742,031
SEWER DEVELOPMENT FEE	4,346,014
INTEREST EARNINGS	2,839,290
APPROPRIATION FROM FUND BALANCE:	
UNRESTRICTED UTILITY CAPITAL RESERVE FUND BALANCE	
UNRESTRICTED	8,645,024
RESTRICTED UTILITY CAPITAL RESERVE FUND BALANCE	
WATER DEVELOPMENT FEES	3,367,310
SEWER DEVELOPMENT FEES	13,247,746
MISCELLANEOUS REIMBURSEMENT	49,500
TOTAL REVENUES	<u>\$35,236,915</u>

INTER-FUND TRANSFERS

TRANSFER TO WATER CAPITAL PROJECTS FUND	\$6,032,960
TRANSFER TO SEWER CAPITAL PROJECTS FUND	19,276,620
RESERVE FOR CAPITAL NEEDS:	
WATER DEVELOPMENT FEES	2,742,031
SEWER DEVELOPMENT FEES	4,346,014
INTEREST EARNINGS	2,839,290
TOTAL INTER-FUND TRANSFERS	<u>\$35,236,915</u>

Section 4. Fee Schedule

The fees as contained in Attachment A are hereby approved and adopted for fiscal year 2019.

Section 5. Transfer From Utility Capital Reserve Fund

The Budget Officer is hereby authorized to make transfers from the Utility Capital Reserve Fund to the appropriate capital improvements fund(s) in the amount specified above.

Section 6. Authorizations and Restrictions on the Budget Officer

- A. Interfund transfer of monies, except as noted in Section 5, shall be accomplished by Town Council authorization only.
- B. The Budget Officer is hereby authorized to make transfers within funds including those appropriations established by ordinances adopted prior to the effective date of this ordinance.
- C. All purchasing policies and laws, as related to the acquisition, construction, or purchase of the above capital improvements projects, remain in full force and effect.

Section 7. Utilization of Capital Improvements Budget Ordinance

This ordinance shall be the basis of the financial plan for capital improvements projects for the Cary municipal government during the 2019 fiscal year. The above revenue and expenditure authorizations shall extend from year to year until each individual project is complete.

Section 8. Statutory Definition of Project Ordinance

This Capital Improvements Budget Ordinance is adopted in conformance with Section 159-13.2 of the Local Government Budget and Fiscal Control Act.

Section 9. Other Transfers and Adjustments

The following special transfers/adjustments are occurring through approval of the FY 2019 capital improvements budget:

WATER

Reduce utility fund transfer funding appropriated to the WT1214 Kilmayne Water Storage Tank by \$150,000 and appropriate those funds to the construction account within the WT1195 Cary/Raleigh Water System Interconnection project. This adjustment reduces the appropriation to WT1214 and increases the appropriation to WT1195

VARIOUS

Reduce the following projects by noted amounts allowing the funds to return to utility capital reserve fund balance where they will become available for future capital project needs:

\$472,822 from WT1157 TCAP Streetscape Water Line Upgrades returning that amount to unrestricted utility capital reserve fund balance

\$250,000 from WT1252 Arthur Pierce Road Water Line Connection returning that amount to unrestricted utility capital reserve fund balance

\$160,000 from WT1281 Tryon Road Water Line Upsizing returning that amount to water development fee fund balance

\$510,617 from SW1177 TCAP Streetscape Sewer Line Upgrades returning that amount to unrestricted utility capital reserve fund balance

FISCAL YEAR 2019 UTILITY-RELATED CAPITAL FEES

Utility related capital fees recoup the Town's past and future investments in utility systems associated with the capacity of new users or increased capacity of existing users. These fees are associated with the capital cost of the utility systems for water, sanitary sewer and reclaimed water which includes but is not limited to infrastructure such as lines, treatment plants, pumping systems, tanks, control systems and maintenance facilities. The ability to charge water and sewer development fees, also known as system development fees, is granted via [NC Session Law 2017-138/House Bill 436](#). In compliance with this legislation, the Town hired a qualified consultant to conduct a system development fee analysis. The [final draft analysis](#) was posted to the [Town's website](#) where it was open to public comment. A public hearing was conducted on May 3, 2018 regarding the draft analysis results. The consultant concluded that the single comment received did not materially impact the conclusions and recommendations made by the analysis.

System development fees are collected when new demand is generated through building permits for new development, requests for new meter boxes, requests for meter installation, or requests for new or changed customer accounts and are due at time of building permit issuance. For new development, the fee shall be paid based on proposed use and size of structure. For existing development, the fee shall be paid based on the increased demand only (reviewing prior use(s) vs. proposed use) at the current fee rate. Examples of existing development that increase demand include but are not limited to alterations, additions, added systems like irrigation or manufacturing processes, fit-ups, remodeling, renovations or changes in use. Reimbursements will not be made for reductions in demand as future use changes could subsequently increase demand to the original level.

These charges are in addition to water and sewer tap charges (see table of Utility Connection Fees in the Operating Budget Fee Schedule).

For new residential construction, water, sewer and reclaimed water permitting and development fees are based on the total area under roof in square feet for each meter for residential property structures. For residential additions, fees are based on the total area under roof added to the original structure.

For non-residential properties, the fees listed below in Attachment A, Section C are based on commercial development use/type and size of structure (the total area under roof in square feet). For non-residential additions, fees are based on the total area under roof added to the original structure. For non-residential uses not specified in Section C below, the Town will require sealed demand estimates from design professionals indicating peak day water demand (potable and/or reclaimed) and average day sewer demand. The Town of Cary Inspections and Permits Department may be contacted at (919) 469-4043 for questions and/or assistance with development fee calculations.

A. RESIDENTIAL WATER DEVELOPMENT FEE:

Equivalent residential unit (ERU) rate for potable water using 306 gallons on a peak day is \$1,946 for all areas served by Town of Cary utilities.

RESIDENTIAL WATER DEVELOPMENT FEES	
Square Feet/Meter/Use	Fee (All Areas)
Single Family < 1,700 square feet	\$1,275
Single Family 1,701 - 2,400 square feet	\$1,586
Single Family 2,401 - 3,100 square feet	\$1,946
Single Family 3,101 - 3,800 square feet	\$2,342
Single Family > 3,800 square feet	\$3,000
Apartments, per unit	\$1,255
Irrigation (potable water), per lot	\$1,252

B. RESIDENTIAL SEWER DEVELOPMENT FEE:

Equivalent residential unit (ERU) rate is \$2,640 for sewer using 192 gallons on an average day for all areas served by Town of Cary utilities.

RESIDENTIAL SEWER DEVELOPMENT FEES	
Square Feet/Meter/Use	Fee (All Areas)
Single Family < 1,700 square feet	\$1,618
Single Family 1,701 - 2,400 square feet	\$2,266
Single Family 2,401 - 3,100 square feet	\$2,640
Single Family 3,101 - 3,800 square feet	\$2,944
Single Family > 3,800 square feet	\$3,745
Apartments, per unit	\$1,768

C. NON-RESIDENTIAL WATER AND SEWER DEVELOPMENT FEES:

Non-residential water and sewer development fees are based upon the rate of \$5.41/peak day gallons for potable water and \$7.74/average day gallons for sewer for all areas served by Town of Cary utilities. Contact the Inspections and Permits Department for uses not specified below.

<i>TYPE OR USE OF ESTABLISHMENT</i>	<i>UNIT</i>	<i>WATER DEVELOPMENT FEE</i>	<i>SEWER DEVELOPMENT FEE</i>
Retail - Large (>80,000 sq. ft.)	1,000 sq. ft.	\$181	\$250
Retail - Medium (20,000-80,000 sq. ft.)	1,000 sq. ft.	\$223	\$308
Retail - Small (<20,000 sq. ft.)	1,000 sq. ft.	\$335	\$462
Laundromat, self service	1,000 sq. ft.	\$7,893	\$10,887
General/Medical office - Large (>20,000 sq. ft.)	1,000 sq. ft.	\$135	\$186
General/Medical office - Medium (5,000-20,000)	1,000 sq. ft.	\$179	\$247
General/Medical office - Small (<5,000 sq. ft.)	1,000 sq. ft.	\$268	\$369
Country club	1,000 sq. ft.	\$514	\$710
Industrial, factory	1,000 sq. ft.	\$220	\$191
Drug store	1,000 sq. ft.	\$82	\$114
Warehouse	1,000 sq. ft.	\$84	\$116
Mini-Warehouse	1,000 sq. ft.	\$8	\$11
Church, Worship Center	1,000 sq. ft.	\$135	\$186
Full service restaurant	1,000 sq. ft.	\$3,031	\$4,180
Single service item restaurant	1,000 sq. ft.	\$790	\$1,089
Carry out restaurant	1,000 sq. ft.	\$135	\$186
Hotel, motel	1,000 sq. ft.	\$796	\$1,098
Laundry, not self service	1,000 sq. ft.	\$1,923	\$2,652
Veterinary hospital, boarding, kennel	1,000 sq. ft.	\$430	\$593
Hospital	1,000 sq. ft.	\$1,433	\$1,976
Nursing home	1,000 sq. ft.	\$1,186	\$1,635
Day care or school	1,000 sq. ft.	\$619	\$853
Recreation, with pool	1,000 sq. ft.	\$4,093	\$5,646
Recreation, no pool	1,000 sq. ft.	\$510	\$703
Gas station, no car wash	1,000 sq. ft.	\$328	\$453
Gas station with car wash	1,000 sq. ft.	\$9,265	\$12,779
Full or self service car wash	1,000 sq. ft.	\$4,252	\$5,864
Stadia, auditoriums, theatres	1,000 sq. ft.	\$310	\$428
Potable Water Irrigation	1,000 irrigated sq. ft.	\$956	-
Brewery / Winery / Cidery / Distillery / Meadery	1,000 sq. ft.	\$1,998	\$2,756

D. SPECIAL UTILITY AREAS:

In areas designated by the Town Council as a “Special Utility Area,” a combined water and sewer development fee shall be collected. The combined development fee shall be the combined fee for both water and sewer development fees based on the schedule of charges for development fees.

E. STANDARD UNIT PRICES FOR OVERSIZE REIMBURSEMENT REQUESTS:

OVERSIZE REIMBURSEMENT CHARTS												
DIP												
LINE SIZE REQUIRED BY THE TOWN OF CARY		Size Required for Project										
	Size (in)	4	6	8	10	12	16	18	20	24	30	
	4	-	-	-	-	-	-	-	-	-	-	-
	6	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	10	20	15	3	-	-	-	-	-	-	-	-
	12	22	17	5	2	-	-	-	-	-	-	-
	16	42	37	25	22	20	-	-	-	-	-	-
	18	47	42	30	27	25	5	-	-	-	-	-
	20	52	47	35	32	30	10	5	-	-	-	-
	24	67	62	50	47	45	25	20	15	-	-	-
30	87	82	70	67	65	45	40	35	20	-	-	

C900/905 - applies only to Reclaimed Water												
LINE SIZE REQUIRED BY THE TOWN OF CARY		Size Required for Project										
	Size (in)	4	6	8	10	12	16	18	20	24	30	
	4	-	-	-	-	-	-	-	-	-	-	-
	6	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	10	20	15	3	-	-	-	-	-	-	-	-
	12	22	17	5	2	-	-	-	-	-	-	-
	16	42	37	25	22	20	-	-	-	-	-	-
	18	47	42	30	27	25	5	-	-	-	-	-
	20	52	47	35	32	30	10	5	-	-	-	-
	24	67	62	50	47	45	25	20	15	-	-	-
30	87	82	70	67	65	45	40	35	20	-	-	

F. STANDARD UNIT PRICES FOR OVERSIZE REIMBURSEMENT REQUESTS: (Continued)

	Size (in)	Size Required for Project						
		8	1	1	1	1	2	
	8	-	-	-	-	-	-	-
	1	6	-	-	-	-	-	-
	1	7	-	-	-	-	-	-
	1	1	5	4	-	-	-	-
	1	1	6	5	-	-	-	-
	2	1	1	1	8	7	-	-
	2	2	2	1	1	1	7	-

VALVES											
	Size (in)	Size Required for Project									
		4	6	8	1	1	1	1	2	2	30
LINE SIZE REQUIRED BY THE TOWN OF CARY	4	-	-	-	-	-	-	-	-	-	-
	6	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-
	1	675	500	275	-	-	-	-	-	-	-
	1	1,175	1,000	775	500	-	-	-	-	-	-
	1	4,950	4,775	4,550	4,275	3,775	-	-	-	-	-
	1	6,675	6,500	6,275	6,000	5,500	1,725	-	-	-	-
	2	11,17	11,00	10,77	10,50	10,00	6,225	4,500	-	-	-
	2	17,17	17,00	16,77	16,50	16,00	12,22	10,50	6,000	-	-
	3	38,97	38,80	38,57	38,30	37,80	34,02	32,30	27,80	21,80	-

BORE AND JACK											
	Size (in)	Carrier Pipe Size Required for Project									
		4	6	8	1	1	1	1	2	2	30
CARRIER PIPE SIZE REQUIRED BY THE TOWN OF CARY	4	-	-	-	-	-	-	-	-	-	-
	6	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-
	1	200	150	3	-	-	-	-	-	-	-
	1	220	170	5	2	-	-	-	-	-	-
	1	420	370	250	220	200	-	-	-	-	-
	1	470	420	300	270	250	5	-	-	-	-
	2	520	470	350	320	300	100	5	-	-	-
	2	670	620	500	470	450	250	200	150	-	-
	3	870	820	700	670	650	450	400	350	200	-

GENERAL CAPITAL IMPROVEMENTS BUDGET ORDINANCE

FISCAL YEAR 2019

BE IT ORDAINED by the Town Council of the Town of Cary, North Carolina, that the following General Capital Improvements anticipated revenues and project appropriations, and General Capital Reserve Fund Budget, are hereby adopted for the operation of the town government and its activities for the fiscal year beginning July 1, 2018 and ending June 30, 2019.

SUMMARY	
Transportation Capital Improvements Fund	\$36,179,969
Fire Capital Improvements Fund	2,750,000
Parks, Recreation, and Cultural Resources Capital Improvements Fund	7,531,500
General Government Capital Improvements Fund	5,155,000
Downtown Capital Improvements Fund	850,000
Total	<u>\$52,466,469</u>

Section 1. Transportation Capital Improvements Fund Projects

\$36,179,969

REVENUES

RESTRICTED FUND BALANCE	\$15,522,467
RESTRICTED REVENUE	705,573
UNRESTRICTED FUND BALANCE	1,286,564
GENERAL FUND TRANSFER	650,000
WAKE COUNTY TRANSIT TAX FUNDS	3,116,000
GRANT FUNDS	4,232,029
2017A GENERAL OBLIGATION BOND PROCEEDS	1,743,969
2017A GENERAL OBLIGATION BOND PROCEEDS (TRANSFERRED)	5,516,347
2012 GENERAL OBLIGATION BOND REFERENDUM	3,407,020
TOTAL REVENUES	<u>\$36,179,969</u>

Section 2. Fire Capital Improvements Fund Projects

\$2,750,000

REVENUES

UNRESTRICTED FUND BALANCE	\$1,057,000
INSTALLMENT PURCHASE DEBT	1,693,000
TOTAL REVENUES	<u>\$2,750,000</u>

Section 3. Parks, Recreation, and Cultural Resources Capital Improvements Fund Projects

\$7,531,500

REVENUES

RESTRICTED FUND BALANCE	\$1,070,000
UNRESTRICTED FUND BALANCE	1,131,500
GRANT FUNDS	2,030,000
INTERLOCAL REVENUE	1,400,000
GENERAL FUND TRANSFER	1,900,000
TOTAL REVENUES	<u>\$7,531,500</u>

Section 4. General Government Capital Improvements Fund Projects

\$5,155,000

REVENUES

UNRESTRICTED FUND BALANCE	\$2,905,000
GENERAL FUND TRANSFER	2,250,000
TOTAL REVENUES	<u>\$5,155,000</u>

Section 5. Downtown Capital Improvements Fund Projects

\$850,000

REVENUES

GENERAL FUND TRANSFER	\$850,000
TOTAL REVENUES	<u>\$850,000</u>

Section 6. General Capital Reserve Fund Budget

The following Revenues and Inter-Fund Transfers are hereby authorized:

REVENUES

VEHICLE LICENSE FEES	\$2,375,415
POWELL BILL FUNDS	3,805,108
INTEREST EARNED	1,796,300
UTILITY FRANCHISE FEES	596,453
TRANSPORTATION DEVELOPMENT FEES	2,089,419
TRIANGLE FUTBOL CLUB PAYMENT	181,467
APPROPRIATION FROM FUND BALANCE:	
POWELL BILL	3,696,060
VEHICLE LICENSE FEES	2,475,000
TRANSPORTATION DEVELOPMENT FEES	3,894,875
STREET PAYMENT IN LIEU	5,343,096
STREET LIGHT PAYMENT IN LIEU	113,436
RECREATION-IN-LIEU CENTRAL	1,070,000
UTILITY FRANCHISE FEES	530,500
UNRESTRICTED INTEREST EARNINGS	5,849,564
TOTAL REVENUES	\$33,816,693

INTERFUND TRANSFERS

TRANSFER TO TRANSPORTATION CAPITAL PROJECTS FUND	\$17,514,604
TRANSFER TO FIRE CAPITAL PROJECTS FUND	1,057,000
TRANSFER TO PARKS & REC CAPITAL PROJECTS FUND	2,201,500
TRANSFER TO GENERAL GOVERNMENT CAPITAL PROJECTS FUND	2,905,000
TRANSFER TO DOWNTOWN CAPITAL PROJECTS FUND	-
RESERVE FOR CAPITAL NEEDS:	
TRANSPORTATION DEVELOPMENT FEES	2,089,419
POWELL BILL	3,099,535
VEHICLE LICENSE FEES	2,375,415
UNRESTRICTED INTEREST EARNINGS	1,796,300
UTILITY FRANCHISE FEES	596,453
TRIANGLE FUTBOL CLUB PAYMENT	181,467
TOTAL INTER-FUND TRANSFERS	\$33,816,693

Section 7. Transfer From Capital Reserve Fund

The Budget Officer is hereby authorized to make transfers from the Capital Reserve Fund to the appropriate capital improvements fund(s) in the amount specified above.

Section 8. Fee Schedule

The fees as contained in Attachment A are hereby approved and adopted for Fiscal Year 2019.

Section 9. Authorizations and Restrictions on the Budget Officer

- Interfund transfer of monies, except as noted in Section 7, shall be accomplished by Town Council authorization only.
- The Budget Officer is hereby authorized to make transfers within funds including those appropriations established by ordinances adopted prior to the effective date of this ordinance.
- All purchasing policies and laws, as related to the acquisition, construction, or purchase of the above capital improvements projects, remain in full force and effect.

Section 10. Utilization of Capital Improvements Budget Ordinance

This ordinance shall be the basis of the financial plan for capital improvements projects for the Cary municipal government during the 2019 fiscal year. The above revenue and expenditure authorizations shall extend from year to year until each individual project

Section 11. Statutory Definition of Project Ordinance

This Capital Improvements Budget Ordinance is adopted in conformance with Section 159-13.2 of the Local Government Budget and Fiscal Control Act.

Section 12. Other Transfers and Adjustments

The following special transfers and/or adjustments are occurring through approval of the FY 2019 capital improvements budget:

TRANSPORTATION

\$5,772,347 of appropriated 2017A General Obligation Bond proceeds is being transferred as noted below:

- \$3,848,980 from ST1206 Green Level Church Road Widening to ST1204 Carpenter Fire Station Road/CSX Grade Separation
- \$923,367 from ST1208 Walnut Street Project to FY 2019 Street Improvement Project
- \$554,859 from ST1208 Walnut Street Project to FY 2019 Sidewalk and Pedestrian Improvements
- \$45,141 from ST1239 Signal System Analysis to Project to FY 2019 Sidewalk and Pedestrian Improvements
- \$400,000 from ST1239 Signal System Analysis to Signal System - Upgrade Traffic Signal Controllers (Connected Vehicles)

Transfer the following funds from the ST1206 Green Level Church Road Widening to ST1231 Cary Parkway/High House Road Intersection project:

- \$60,000 vehicle license fees

PRCR

Transfer \$1,000,000 of Interlocal funds in WakeMed Soccer Park Small Projects to PR1193 Cary Tennis Park project.

Transfer \$1,000,000 of PRCR Payment in Lieu funding from PR1193 to WakeMed Soccer Park Small Projects. These transfers do not increase appropriations to either project.

VARIOUS

Reduce the following projects by noted amounts allowing the funds to return to general capital reserve fund balance where they will become available for future capital project needs:

- \$191,973 from ST1107 Traffic Calming project returning that amount to vehicle license fee fund balance
- \$140,000 from ST1206 Green Level Church Road Widening returning that amount to vehicle license fee fund balance
- \$350,000 from ST1238 Streetscape Improvements returning that amount to unrestricted general capital reserve fund balance
- \$100,114 from PR1146 Sertoma Amphitheatre returning that amount to unrestricted general capital reserve fund balance
- \$100,000 from PR1151 Old Reedy Creek Rd Trailhead Park returning that amount to unrestricted general capital reserve fund balance
- \$203,830 from PR1185 DT - Downtown Park returning that amount to unrestricted general capital reserve fund balance
- \$350,000 from GG1119 PWUT Facility Improvements - Phase I Dixon Avenue returning that amount to unrestricted general capital reserve fund balance

FISCAL YEAR 2019 GENERAL CAPITAL-RELATED FEES

A. TRANSPORTATION DEVELOPMENT FEES

The Town of Cary charges transportation development fees for properties developing within the Town or its extraterritorial jurisdiction (ETJ). Transportation development fees are levied at the time of permit issuance in order to help address the costs associated with the transportation infrastructure needs of new development. These fees vary based on residential, multi-family and commercial development type and size.

For more details related to the Town's transportation development fees, see section 7.11 of the Town of Cary's Land Development Ordinance at

[http://www.amlegal.com/nxt/gateway.dll/North%20Carolina/cary_nc/codeofordinancetownofcarynorthcarolina?f=templates\\$fn=default.htm\\$3.0\\$vid=amlegal:cary_nc](http://www.amlegal.com/nxt/gateway.dll/North%20Carolina/cary_nc/codeofordinancetownofcarynorthcarolina?f=templates$fn=default.htm$3.0$vid=amlegal:cary_nc)

Land Use Type	Unit	Central Zone	Base Zone
Single-Family Detached	Dwelling	\$1,103	\$1,573
Single-Family Attached (Town Homes)	Dwelling	\$574	\$818
Multi-Family (Apartments & Condos)	Dwelling	\$684	\$975
Residential Care Facility	Bed	\$180	\$256
Hotel/Motel	Room	\$400	\$569
Retail/Commercial			
General Retail/Shopping Center	1,000 sq. ft.	\$1,148	\$1,637
ATM (Stand-Alone)	Each	\$1,343	\$1,914
Bank	1,000 sq. ft.	\$1,178	\$1,679
Restaurant, Fast Food	1,000 sq. ft.	\$3,520	\$5,017
Restaurant, Sit-Down	1,000 sq. ft.	\$1,313	\$1,871
Office/Institutional			
Office	1,000 sq. ft.	\$1,483	\$2,113
Hospital	1,000 sq. ft.	\$759	\$1,082
Library	1,000 sq. ft.	\$674	\$961
Church or Place of Worship	1,000 sq. ft.	\$344	\$491
Day Care Center	1,000 sq. ft.	\$1,148	\$1,637
Industrial			
Industrial Park	1,000 sq. ft.	\$869	\$1,238
Warehouse	1,000 sq. ft.	\$325	\$463
Mini-Storage	1,000 sq. ft.	\$190	\$271
Recreational			
Golf Course	Hole	\$2,156	\$3,074
Park/General Recreation	Acre	\$60	\$85
Recreational/Swim Center	1,000 sq. ft.	\$2,027	\$2,889
Tennis Court	Court	\$2,866	\$4,085

B. VEHICLE LICENSE FEES

The fee for registration of motor vehicles, as required in Town Code Chapter 12, Article II, Section 12-27, shall be thirty dollars (\$30.00) per motor vehicle registered in the Town of Cary.

C. PAYMENT-IN-LIEU FEES

Park and Greenway Payments-in-Lieu – Single Family Dwelling Units

The Town of Cary’s Land Development Ordinance requires developers to donate at least 1/35th of an acre of land for each traditional single-family dwelling unit planned in a subdivision plat or development. Should the land that a developer plans to dedicate lie within a Flood Hazard Area or have slopes of greater than 15 percent, land should be dedicated at a rate of at least 1/20 of an acre per dwelling unit.

Per the Town’s Land Development Ordinance, the payment of fees in-lieu of the dedication of land may occur at the request of the subdivider or developer. In most instances, payments-in-lieu of land dedication must be paid prior to recording any lots in the subdivision. In some cases, payment of fees in-lieu of land dedication may be required by the Town Council at the time of preliminary plat approval or master land use plan approval.

Park and Greenway Payments-in-Lieu – Multi-Family Dwelling Units

The Town’s Land Development Ordinance requires developers of multi-family dwelling units not requiring subdivision plan approval to provide funds where the Town may acquire recreational land or areas to serve the development or more than the multi-family development or residential subdivision. The multi-family recreation fund payment must be equal to 65% of the five-year rolling average subdivision recreation fund payment per dwelling unit. A combination of partial payment of funds and partial dedication of land may be required in instances where the Town Council determines that this combination is in the best interest of the citizens of the area to be served. Land to be dedicated in lieu of payment of funds must be equal to 1/55th of an acre for each dwelling unit for which dedication is to be made in lieu of fund payment. Should the land that a developer plan to dedicate lie within a FEMA 100 year floodplain, wetlands, regulated stream buffers or have slopes greater than 15% percent, land should be dedicated at a rate of at least 1/40th of an acre per dwelling unit. Such areas should be reflected on the subdivision plat for the dedicated parcel.

For more details related to the Town’s park and greenway land dedication and/or payment-in-lieu requirements, see sections 8.2.3 and 8.2.4 of the Town of Cary’s Land Development Ordinance at:

[http://www.amlegal.com/nxt/gateway.dll/North%20Carolina/cary_nc/codeofordinancestow_nofcarynorthcarolina?f=templates\\$fn=default.htm\\$3.0\\$vid=amlegal:cary_nc](http://www.amlegal.com/nxt/gateway.dll/North%20Carolina/cary_nc/codeofordinancestow_nofcarynorthcarolina?f=templates$fn=default.htm$3.0$vid=amlegal:cary_nc)

Street and Sidewalk Payments-in-Lieu

The Town of Cary's Land Development Ordinance requires that developers of subdivisions construct street and sidewalk improvements within their developments and on adjacent property frontage that conform to Town standards. A payment-in-lieu of street or sidewalk construction may be made to the Town should the developer prefer not to construct the required street/sidewalk improvement. In these instances, the developer must provide the Town with a sealed engineer's estimate for the work to be constructed. The Town then reviews the estimate to ensure that it is in accordance with established standards. Should everything be in order, the payment-in-lieu request is approved by the Town and funds are accepted. Payments-in-lieu of improvements must be paid prior to issuance of the construction package. For more details related to the Town's street and sidewalk improvement requirements, see section 8.1.5 of the Town of Cary's Land Development Ordinance at:

[http://www.amlegal.com/nxt/gateway.dll/North%20Carolina/cary_nc/codeofordinancetownofcarynorthcarolina?f=templates\\$fn=default.htm\\$3.0\\$vid=amlegal:cary_nc](http://www.amlegal.com/nxt/gateway.dll/North%20Carolina/cary_nc/codeofordinancetownofcarynorthcarolina?f=templates$fn=default.htm$3.0$vid=amlegal:cary_nc)

Street Lighting Payments-in-Lieu

The Town of Cary's Land Development Ordinance requires that a property owner or developer install street lighting along all proposed streets, public or private, and along all existing streets which adjoin the property, in accordance with Town of Cary Policy Statement No. 13. A payment-in-lieu of street light installation may be made to the Town of Cary should the Town's Transportation and Facilities department determine that the street lights cannot be installed until a later date. In these instances, the property owner or developer must provide the Town with a sealed engineer's estimate for the lights to be installed. The Town then reviews the estimate to ensure that it is in accordance with established standards. Should everything be in order, the payment-in-lieu request is approved by the Town and funds are accepted. Payments-in-lieu of improvements must be paid prior to issuance of the construction package. For more details related to the Town's street lighting requirements, see section 8.1.5 of the Town of Cary's Land Development Ordinance at:

[http://www.amlegal.com/nxt/gateway.dll/North%20Carolina/cary_nc/codeofordinancetownofcarynorthcarolina?f=templates\\$fn=default.htm\\$3.0\\$vid=amlegal:cary_nc](http://www.amlegal.com/nxt/gateway.dll/North%20Carolina/cary_nc/codeofordinancetownofcarynorthcarolina?f=templates$fn=default.htm$3.0$vid=amlegal:cary_nc)

CAPITAL IMPROVEMENTS BUDGET SUMMARY

The following summaries presents projects funded by the Adopted Capital Improvements Budget for the Town of Cary, North Carolina for Fiscal Year 2019, which begins on July 1, 2018, and ends on June 30, 2019. The Capital Improvements Budget (CIB) represents the financial plan for the acquisition and construction of capital assets. A capital asset is defined as having a value exceeding \$25,000 and a useful life of greater than three years. Exceptions to this rule exist for practical reasons. The CIB contains cost estimates for each capital project and appropriates money for FY 2019. These funds remain available for expenditure until project completion which will likely extend well beyond the end of FY 2019.

The projects and their respective budgets funded in FY 2019 are as follows:

Water Capital Improvements Fund

A.	\$270,000	CAWTF - New Heavy Duty Equipment
B.	200,000	CAWTF - Chemical Feed System Upgrades of Aging Equipment
C.	250,000	CAWTF - Generator Switchgear Upgrades
D.	875,000	CAWTF - Phase III Expansion
E.	1,000,000	CAWTF - Process Basin Rehabilitation/Restoration
F.	4,000,000	CAWTF - Process Conversion to Ozone/Biofiltration
G.	250,000	CAWTF - Security Upgrades
H.	801,310	Extend and Relocate Water Mains and Install Valves
I.	200,000	Heavy Equipment Replacement - Water
J.	420,000	Holt Road to Davis Drive Water Line Connection
K.	175,000	Jenks-Carpenter/Holt Road Water Line Reinforcement
L.	1,100,000	Louis Stephens Drive Extension Water Line (U-5827)
M.	578,000	Optimist Farm Road Water Line - West
N.	50,000	Roof Assessments and Rehabilitation - Water
O.	125,000	Stephenson Road Water Line and Ten Ten Road Water Line West
P.	5,000,000	Upgrade Water Lines
Q.	168,000	Water Line Oversizings and Related Infrastructure Acceptance
R.	50,000	Water Main Condition Assessment
S.	175,000	Water System - Critical Water Line Locating and Testing
	\$15,687,310	Water Subtotal

Sewer Capital Improvements Fund

A.	\$500,000	Cleaning and Video Survey of Sewer Interceptors
B.	147,746	Extend Reclaimed Water Mains
C.	100,000	Force Main Easement Clearing Project - Survey and Clear
D.	600,000	Green Level Sewer Interceptor Odor Control Improvements
E.	700,000	Heavy Duty Equipment Replacement - Sewer
F.	100,000	I-40 Pump Station Improvements
G.	200,000	Infrastructure GIS Asset Data - Wastewater
H.	800,000	KCPS and MBRPS Force Main Parallel Along Green Level Church Road
I.	914,000	Morrisville Carpenter Road Reclaimed Water Line
J.	30,000	NCWRF - HVAC Replacements
K.	5,600,000	NCWRF - Partial and Full Diffused Air System
L.	125,000	Pump Station Variable Frequency Drive Replacements
M.	175,849	Reclaimed Water Line Oversizings
N.	75,000	Roof Assessments and Rehabilitation - Sewer
O.	200,000	Sewer Oversizings and Related Infrastructure Acceptance

Sewer Capital Improvements Fund - Continued

P.	500,000	SCADA at the Tier II Wastewater Pump Stations
Q.	80,000	SCWRF - Aeration Basin Recycle Pump Replacements
R.	100,000	SCWRF - Clarifier Equipment Repair and Replacement
S.	50,000	SCWRF - Generator Auto Transfer Switch Replacement
T.	125,000	SCWRF - Plant Drain Pump Station Improvements
U.	250,000	SCWRF - Polishing Pond Liner Replacement
V.	200,000	SCWRF - Variable Frequency Drive Replacement
W.	250,000	Sewer Flow Management Modeling Scenarios
X.	500,000	Sewer System Repair/Rehabilitation
Y.	750,000	Wastewater Pump Station Improvements
Z.	2,900,000	Wastewater Pump Station Parallel Force Mains
AA.	75,000	West Cary Pump Station Trash Dumpster Enclosure
AB.	75,000	WWRF - Beaver Creek Pump Station Bar Screen and Trash Dumpster Enclosure
AC.	11,000,000	Winding Pine Regional Pump Station, Gravity Sewer and Force Main
	<u>\$27,122,595</u>	Sewer Subtotal
	<u><u>\$42,809,905</u></u>	Total Utility CIB

Transportation Capital Improvements Fund

A.	\$25,000	Bicycle Facilities Implementation
B.	8,743,969	Carpenter Fire Station Road /CSX Rail Grade Separation
C.	3,150,000	Carpenter Fire Station Road Widening (NC55 to East of Cameron Pond)
D.	1,016,000	GoCary Bus Stop Improvements
E.	75,000	GoCary Capital Amenities
F.	4,000,000	GoCary Downtown Multimodal Station
G.	100,000	GoCary Wayfinding Signage
H.	300,000	Lake Pine Drive Road Widening and Sidewalk Improvements
I.	6,720,000	Reedy Creek Road Widening - NE Maynard Road to N Harrison Avenue
J.	1,750,000	Sidewalk and Pedestrian Improvements
K.	2,000,000	Signal System - Upgrade Traffic Signal Controllers (Connected Vehicles)
L.	150,000	Spot Improvements (Based on Levels of Service, Safety and Citizen Concerns)
M.	7,100,000	Street Improvement Project
N.	850,000	Street Storm Drainage System Rehabilitation
O.	200,000	Thoroughfare Street Lights
	<u>\$36,179,969</u>	Transportation Subtotal

Fire Capital Improvements Fund

A.	<u>\$2,750,000</u>	Aerial Ladder Replacement - #1978 and #1997
	\$2,750,000	Fire Subtotal

Parks, Recreation and Cultural Resources Capital Improvements Fund

A.	\$125,000	Athletic Field Fencing Amenities Replacement
B.	88,000	Athletic Field Fencing Repair/Replacement
C.	440,000	Athletic Field Lighting Replacement
D.	50,000	Greenway Pedestrian Structure Repair
E.	320,000	Greenway Resurfacing Projects
F.	3,100,000	Higgins Greenway - Phase III - Maynard to Downtown

Parks, Recreation and Cultural Resources Capital Improvements Fund - Continued

G.	350,000	Koka Booth Amphitheatre Improvements
H.	365,000	Park and Greenway Renovations
I.	110,500	Playground Surface Repairs/Replacements
J.	215,000	PRCR Facility Improvements
K.	50,000	Public Art - Higgins Greenway - Maynard to Downtown
L.	50,000	Public Art - Western Cary Community Facility
M.	125,000	Tennis Court Fencing Repair/Replacement
N.	173,000	Tennis Court Renovations
O.	500,000	Thomas Brooks Park Field Drainage
P.	1,400,000	WakeMed Soccer Park Facility Improvements - Interlocal Small Projects
Q.	70,000	Western Cary Disc Golf
	\$7,531,500	PRCR Subtotal

General Government Capital Improvements Fund

A.	\$500,000	ADA Improvements at Town Facilities
B.	100,000	AH - Downtown Rehabilitation and Façade Improvement Program
C.	25,000	AH - Minimum Housing Demolition
D.	300,000	AH - Owner Occupied Housing Rehabilitation and Façade Improvement Program
E.	90,000	Facility Painting Interior and Exterior
F.	200,000	Fleet Management - Service Vehicle/Response
G.	850,000	Heavy Equipment Replacement
H.	10,000	Historic Preservation Implementation Activities
I.	550,000	Storm Drainage Project - Private Assistance
J.	600,000	Storm Drainage Project - Town Properties
K.	700,000	Stormwater Condition Assessment and Rehabilitation Program
L.	1,200,000	Technology Implementation - Salesforce
M.	30,000	Upgrade Pedestrian Crossings - Relocation of Push Buttons
	\$5,155,000	General Government Subtotal

Downtown Capital Improvements Fund

A.	\$350,000	DT - Downtown Business Improvement District
B.	500,000	DT - Downtown Improvements
	\$850,000	Downtown Subtotal

\$52,466,469 Total General CIB

\$95,276,374 Total Adopted CIB

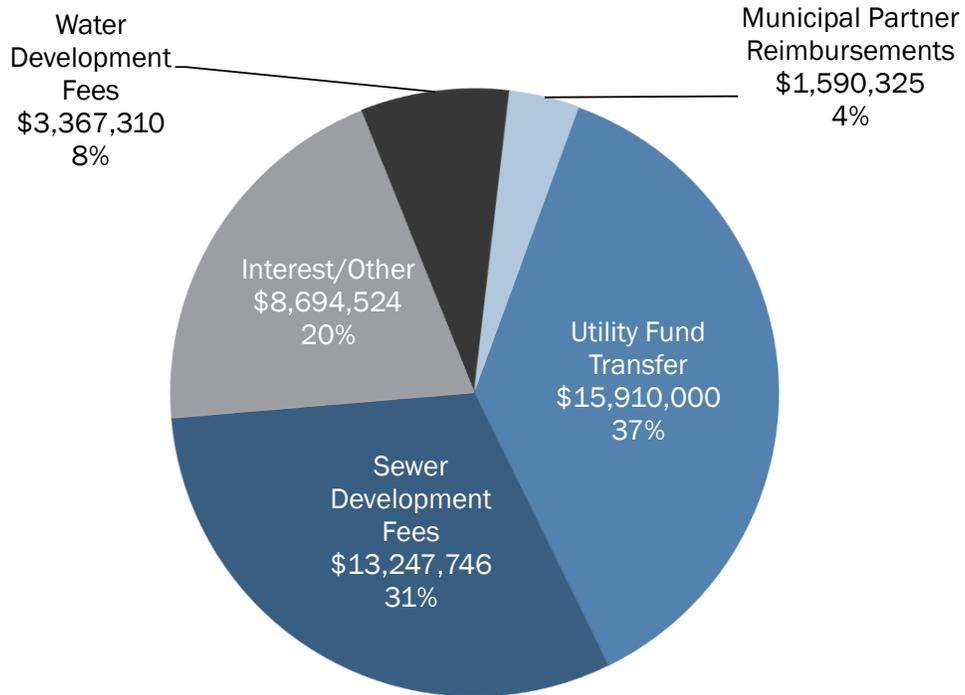
UTILITY CAPITAL RESERVE FUND SUMMARY

	Actual 2015	Actual 2016	Actual 2017	Estimated 2018	Budget 2019
REVENUES					
Net Investment Earnings	\$776,905	\$1,137,042	\$1,612,855	\$2,573,056	\$2,839,290
Water Development Fee	4,356,029	3,906,259	5,068,852	3,427,539	2,742,031
Sewer Development Fee	6,371,970	6,155,747	7,553,845	5,432,518	4,346,014
Reclaimed Water Development Fee/ Payment in Lieu	21,950	271,223	303,871	173,525	--
Misc. Developer Payments	--	--	7,948		
TOTAL REVENUES	\$11,526,854	\$11,470,271	\$14,547,371	\$11,606,638	\$9,927,335
OTHER FINANCING SOURCES (USES)					
Water Projects Fund	(\$8,802,645)	(\$9,970,988)	(\$3,017,619)	(\$5,485,054)	(\$6,032,960)
Sewer Projects Fund	723,046	(5,351,946)	(10,979,535)	(10,175,587)	(19,276,620)
Funds Returned to Fund Balance	724,934	5,964,795	7,338,830	10,250,002	--
TOTAL OTHER FINANCING SOURCES (USES)	(\$7,354,665)	(\$9,358,139)	(\$6,658,324)	(\$5,410,639)	(\$25,309,580)
Net Income (Loss)	\$4,172,189	\$2,112,132	\$7,889,047	\$6,195,999	(\$15,382,245)
Net Income (Loss) Adjusted	4,172,189	2,112,132	7,889,047	6,195,999	(15,382,245)
Fund Balance - Start of Year	40,621,502	44,793,691	46,905,823	54,794,870	60,990,869
Prior Year Equity Adjustment	5,813,213	5,886,830	(3,082,330)	--	--
Adjustment to Accrual	73,617	(8,969,160)	(329,716)	--	--
*Net Position - End of Year	\$51,063,057	\$44,728,440	\$50,949,723	\$60,009,342	\$44,822,987
**Net Fund Balance - End of Year	\$44,793,691	\$46,905,823	\$54,794,870	\$60,990,869	\$45,608,624

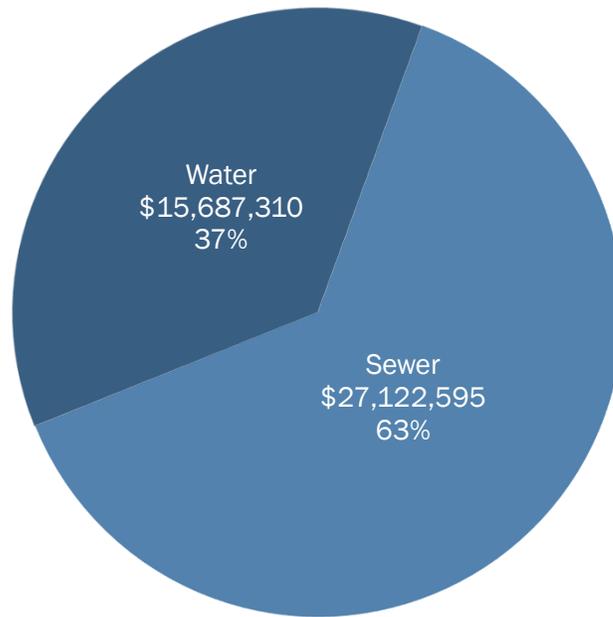
* "Net Position - End of Year" includes non-expendable accounting adjustments

** "Net Fund Balance - End of Year" represents true, available cash reserves

FY 2019 UTILITY CAPITAL IMPROVEMENTS FUNDING SOURCES = \$42,809,905



FY 2019 UTILITY CAPITAL IMPROVEMENTS EXPENDITURES = \$42,809,905



**UTILITY CAPITAL IMPROVEMENTS BUDGET
BY FUNDING SOURCE**

Project Name	FY 2019 Adopted	Unrestricted Investment Income	Unrestricted Utility Fund Transfer	Restricted Water	Restricted Sewer	Restricted Town of Apex Reimbursement
Water						
CAWTF - New Heavy Duty Equipment	\$270,000	\$207,900	\$0	\$0	\$0	\$62,100
CAWTF - Chemical Feed System Aging Equipment Upgrades	200,000	154,000	-	-	-	46,000
CAWTF - Generator Switchgear Upgrades	250,000	192,500	-	-	-	57,500
CAWTF - Phase III Expansion	875,000	673,750	-	-	-	201,250
CAWTF - Process Basin Rehabilitation/Restoration	1,000,000	770,000	-	-	-	230,000
CAWTF - Process Conversion to Ozone/Biofiltration	4,000,000	-	3,080,000	-	-	920,000
CAWTF - Security Upgrades	250,000	192,500	-	-	-	57,500
Extend and Relocate Water Mains and Install Valves	801,310	-	-	801,310	-	-
Heavy Duty Equipment Replacement - Water	200,000	200,000	-	-	-	-
Holt Road to Davis Drive Water Line Connection	420,000	-	-	420,000	-	-
Jenks-Carpenter/Holt Road Water Line Reinforcement	175,000	-	-	175,000	-	-
Louis Stephens Dr Extension Water Line (U-5827)	1,100,000	-	-	1,100,000	-	-
Optimist Farm Road Water Line - West	578,000	-	-	578,000	-	-
Roof Assessments and Rehabilitation - Water	50,000	50,000	-	-	-	-
Stephenson Road and Ten Ten Road Water Lines West Upgrade Water Lines	125,000	-	-	125,000	-	-
Water Line Oversizings and Related Infrastructure Acceptance	5,000,000	-	5,000,000	-	-	-
Water Main Condition Assessment	168,000	-	-	168,000	-	-
Water System - Critical Water Line Locating and Testing	50,000	50,000	-	-	-	-
	175,000	175,000	-	-	-	-
TOTAL FY 2019 WATER ADOPTED CIB	\$15,687,310	\$2,665,650	\$8,080,000	\$3,367,310	\$0	\$1,574,350

Sewer						
Cleaning and Video Survey of Sewer Interceptors	\$500,000	\$0	\$500,000	\$0	\$0	\$0
Extend Reclaimed Water Mains	147,746	-	-	-	147,746	-
Force Main Easement Clearing Project - Survey and Clear	100,000	100,000	-	-	-	-
Green Level Sewer Interceptor Odor Control Improvements	600,000	-	600,000	-	-	-
Heavy Duty Equipment Replacements - Sewer	700,000	700,000	-	-	-	-
I-40 Pump Station Improvements	100,000	100,000	-	-	-	-
Infrastructure GIS Asset Data - Wastewater	200,000	-	200,000	-	-	-
KCPS and MBRPS Parallel Force Main Green Level Church	800,000	-	-	-	800,000	-

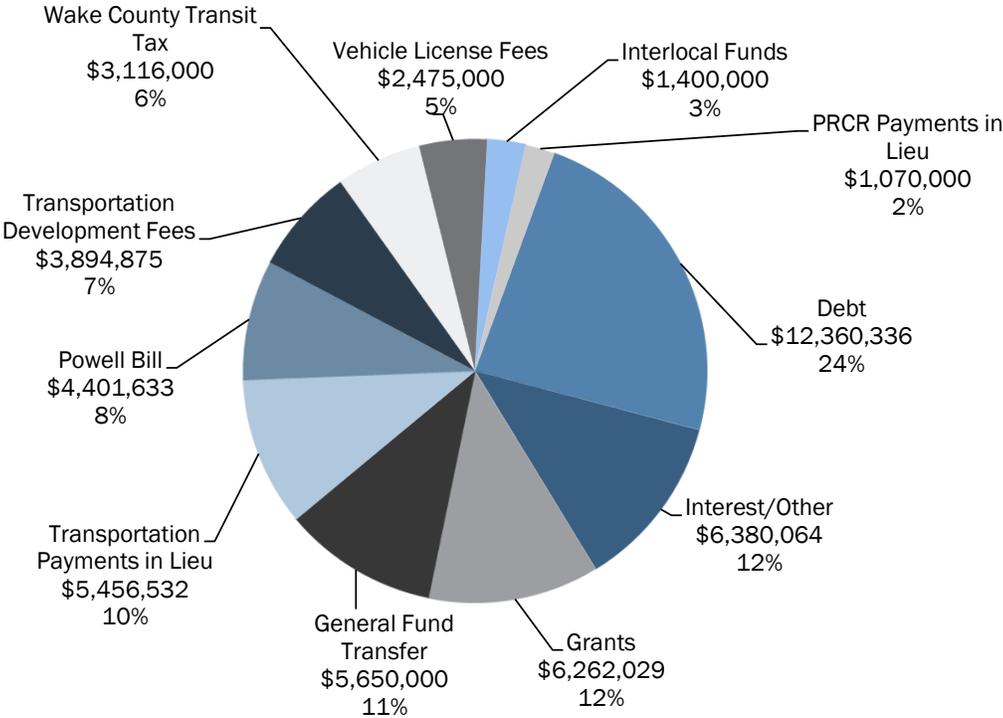
**UTILITY CAPITAL IMPROVEMENTS BUDGET
BY FUNDING SOURCE**

Project Name	FY 2019 Adopted	Unrestricted Investment Income	Unrestricted Utility Fund Transfer	Restricted Water	Restricted Sewer	Restricted Town of Apex Reimbursement
Sewer (Continued)						
Morrisville Carpenter Road Reclaimed Water Line	914,000	914,000	-	-	-	-
NCWRF - HVAC Replacements	30,000	-	30,000	-	-	-
NCWRF - Partial and Full Diffused Air System	5,600,000	-	-	-	5,600,000	-
Pump Station Variable Frequency Drive Replacements	125,000	125,000	-	-	-	-
Reclaimed Water Line Oversizings	175,849	175,849	-	-	-	-
Roof Assessments and Rehabilitation - Sewer	75,000	75,000	-	-	-	-
Sewer Oversizings and Infrastructure Acceptance	200,000	-	-	-	200,000	-
SCADA at the Tier II Wastewater Pump Stations	500,000	-	500,000	-	-	-
SCWRF - Aeration Basin Recycle Pump Replacements	80,000	80,000	-	-	-	-
SCWRF - Clarifier Equipment Repair and Replacement	100,000	100,000	-	-	-	-
SCWRF - Generator Auto Transfer Switch Replacement	50,000	50,000	-	-	-	-
SCWRF - Plant Drain Pump Station Improvements	125,000	125,000	-	-	-	-
SCWRF - Polishing Pond Liner Replacement	250,000	-	250,000	-	-	-
SCWRF - Variable Frequency Drive Replacement	200,000	200,000	-	-	-	-
Sewer Flow Management Modeling Scenarios	250,000	250,000	-	-	-	-
Sewer System Repair/Rehabilitation	500,000	-	-	-	500,000	-
Wastewater Pump Station Improvements	750,000	-	750,000	-	-	-
Wastewater Pump Station Parallel Force Mains	2,900,000	2,900,000	-	-	-	-
West Cary Pump Station Trash Dumpster Enclosure	75,000	75,000	-	-	-	-
Winding Pine Regional PS, Gravity Sewer and Force Main	11,000,000	-	5,000,000	-	6,000,000	-
Beaver Creek PS Bar Screen and Trash Dumpster Enclosure	75,000	9,525	-	-	49,500	15,975
TOTAL FY 2019 SEWER ADOPTED CIB	\$27,122,595	\$5,979,374	\$7,830,000	\$0	\$13,297,246	\$15,975
GRAND TOTAL - ADOPTED FY 2019 CIB	\$42,809,905	\$8,645,024	\$15,910,000	\$3,367,310	\$13,297,246	\$1,590,325

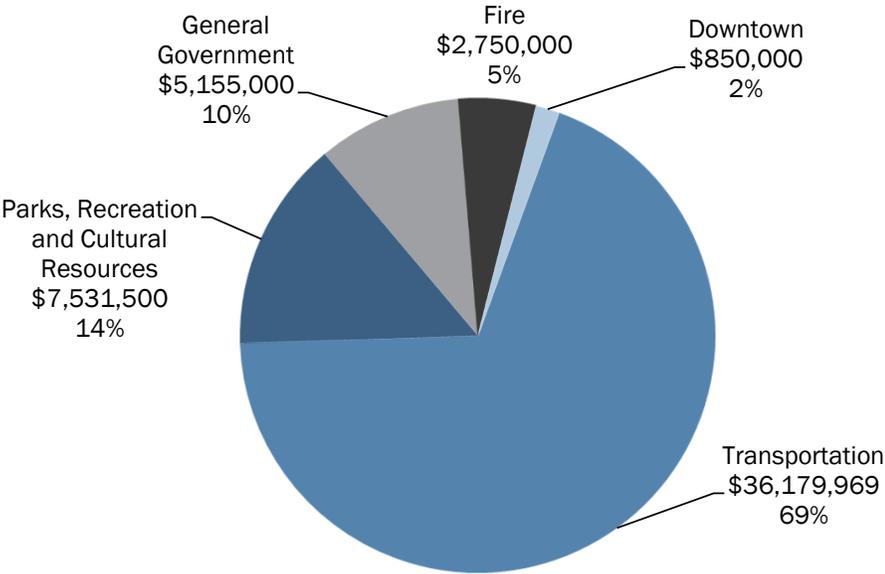
GENERAL CAPITAL RESERVE FUND SUMMARY

	Actual 2015	Actual 2016	Actual 2017	Estimated 2018	Budget 2019
REVENUES					
Net Investment Earnings	\$650,659	\$980,989	\$1,227,481	\$1,745,308	\$1,796,300
Transportation Development Fees	911,166	1,620,360	1,838,189	2,364,445	2,089,419
Vehicle License Fees	1,372,801	1,363,462	1,296,181	1,295,987	2,375,415
Powell Bill	3,726,916	3,787,821	3,822,179	3,849,599	3,805,108
Recreation Payment In Lieu	3,059,159	5,004,278	4,533,630	4,623,331	--
Interlocal Revenue	1,000,000	--	--	--	--
Triangle Futbol Club Payment	--	300,000	186,686	181,467	181,467
Payment in Lieu of Streets	1,384,823	884,693	747,856	1,724,293	--
Payment in Lieu - Street Lighting	1,586	--	12,300	65,090	--
Payment in Lieu - Sidewalks	--	--	--	6,072	--
Utility Franchise Fee	619,850	601,242	617,909	603,297	596,453
TOTAL REVENUES	\$12,726,960	\$14,542,845	\$14,282,411	\$16,458,889	\$10,844,162
OTHER FINANCING SOURCES (USES)					
Transportation Projects Fund	(\$8,095,838)	(\$10,815,000)	(\$7,665,000)	(\$6,912,575)	(\$17,514,604)
Fire Projects Fund	589,461	(650,000)	(650,000)	(97,500)	(1,057,000)
Parks & Rec. Projects Fund	(5,618,795)	(1,539,000)	(6,224,000)	(3,384,898)	(2,201,500)
General Government Projects Fund	1,624,922	(2,277,400)	(880,000)	(1,128,300)	(2,905,000)
Downtown Projects Fund	2	690	(150,000)	--	--
Funds Returned to Fund Balance	--	4,916,381	2,946,356	3,736,941	--
TOTAL OTHER FINANCING SOURCES	(\$11,500,248)	(\$10,364,329)	(\$12,622,644)	(\$7,786,332)	(\$23,678,104)
Revenues and Other Sources Over (Under)					
Expenditures and Other Uses	\$1,226,712	\$4,178,516	\$1,659,767	\$8,672,557	(\$12,833,942)
Fund Balance - Start of Year	\$26,156,977	\$27,383,689	\$31,562,205	\$33,221,972	\$41,894,529
Fund Balance - End of Year	\$27,383,689	\$31,562,205	\$33,221,972	\$41,894,529	\$29,060,587
Undesignated Fund Balance - End of Year	\$27,295,002	\$31,143,581	\$32,257,354	\$41,475,905	\$28,641,963

FY 2019 GENERAL CAPITAL IMPROVEMENTS FUNDING SOURCES = \$52,466,469



FY 2019 GENERAL CAPITAL IMPROVEMENTS EXPENDITURES = \$52,466,469



GENERAL CAPITAL IMPROVEMENTS BUDGET BY FUNDING SOURCE

Project Name	FY 2019									
	Adopted	Debt Funding	Grant Funding	Unrestricted Investment Income	Unrestricted Utility Franchise Fees	Unrestricted General Fund Transfer	Restricted Transportation	Restricted Wake County Transit Tax	Restricted Park & Greenway	Restricted Interlocal
Transportation										
Bicycle Facilities Implementation	25,000	-	-	-	25,000	-	-	-	-	-
Carpenter Fire Station/RoadCSX Rail Grade Separation	8,743,969	8,743,969	-	-	-	-	-	-	-	-
Carpenter Fire Station Road Widening (NC 55 to East of Cameron Pond)	3,150,000	-	-	-	-	3,150,000	-	-	-	-
GoCary Bus Stop Improvements	1,016,000	-	-	-	-	-	1,016,000	-	-	-
GoCary Capital Amenities	75,000	-	-	-	75,000	-	-	-	-	-
GoCary Downtown Multimodal Station	4,000,000	-	2,000,000	-	-	-	2,000,000	-	-	-
GoCary Wayfinding Signage	100,000	-	-	-	-	-	-	100,000	-	-
Lake Pine Drive Road Widening and Sidewalk Improvements	300,000	-	-	-	-	-	300,000	-	-	-
Reedy Creek Road Widening - NE Maynard Road to N Harrison Avenue	6,720,000	-	632,029	-	-	650,000	6,087,971	-	-	-
Sidewalk and Pedestrian Improvements	1,750,000	600,000	-	500,000	-	-	-	-	-	-
Signal System - Upgrade Traffic Signal Controllers (Connected Vehicles)	2,000,000	400,000	1,600,000	-	-	-	-	-	-	-
Spot Improvements - Based on Levels of Service and Citizen Concerns	150,000	-	-	-	-	-	150,000	-	-	-
Street Improvement Project	7,100,000	923,367	-	-	-	-	6,176,633	-	-	-
Street Storm Drainage System Rehabilitation	850,000	-	-	600,000	-	-	250,000	-	-	-
Thoroughfare Street Lights	200,000	-	-	86,564	-	-	113,436	-	-	-
TOTAL FY 2019 TRANSPORTATION ADOPTED CIB	\$36,179,969	\$10,667,836	\$4,282,029	\$1,186,564	\$100,000	\$650,000	\$16,228,040	\$3,116,000	\$0	\$0

Fire

Aerial Ladder Replacement	2,750,000	1,693,000	-	1,057,000	-	-	-	-	-	-
TOTAL FY 2019 FIRE ADOPTED CIB	\$2,750,000	\$1,693,000	\$0	\$1,057,000	\$0	\$0	\$0	\$0	\$0	\$0

Parks, Recreation and Cultural Resources

Athletic Field Fencing Amenities Replacement	125,000	-	-	125,000	-	-	-	-	-	-
Athletic Field Fencing Repair/Replacement	88,000	-	-	-	-	88,000	-	-	-	-
Athletic Field Lighting Replacement	440,000	-	-	-	-	440,000	-	-	-	-
Greenway Pedestrian Structure Repair	50,000	-	-	-	-	50,000	-	-	-	-
Greenway Resurfacing	320,000	-	-	-	320,000	-	-	-	-	-
Higgins Greenway - Phase III - Maynard to Downtown	3,100,000	-	2,030,000	-	-	-	-	1,070,000	-	-
Koka Booth Amphitheatre Improvements	350,000	-	-	-	-	350,000	-	-	-	-
Park and Greenway Renovations	365,000	-	-	-	-	365,000	-	-	-	-
Playground Surface Repairs/Replacement	110,500	-	-	-	110,500	-	-	-	-	-
PRCR Facility Improvements	215,000	-	-	158,000	-	57,000	-	-	-	-
Public Art - Higgins Greenway - Phase III - Maynard to Downtown	50,000	-	-	50,000	-	-	-	-	-	-
Public Art - Western Cary Community Facility	50,000	-	-	-	-	50,000	-	-	-	-
Tennis Court Fencing Repair/Replacement	125,000	-	-	125,000	-	-	-	-	-	-
Tennis Court Renovations	173,000	-	-	173,000	-	-	-	-	-	-
Thomas Brooks Park Field Drainage	500,000	-	-	-	-	500,000	-	-	-	-
WakeMed Soccer Park Facility Improvements - Interlocal Small Projects	1,400,000	-	-	-	-	-	-	-	-	1,400,000
Western Cary Disc Golf Course	70,000	-	-	70,000	-	-	-	-	-	-
TOTAL FY 2019 PRCR ADOPTED CIB	\$7,631,500	\$0	\$2,030,000	\$701,000	\$430,500	\$1,900,000	\$0	\$1,070,000	\$0	\$1,400,000

GENERAL CAPITAL IMPROVEMENTS BUDGET BY FUNDING SOURCE

Project Name	FY 2019									
	Adopted	Debt Funding	Grant Funding	Unrestricted Investment Income	Unrestricted Utility Franchise Fees	Unrestricted General Fund Transfer	Restricted Transportation	Restricted Wake County Transit Tax	Restricted Park & Greenway	Restricted Interlocal
General Government										
ADA Improvements - Town Facilities	500,000	-	-	500,000	-	-	-	-	-	-
AH - Downtown Rehab and Façade Improvement Program	100,000	-	-	-	-	100,000	-	-	-	-
AH - Minimum Housing Demolition	25,000	-	-	25,000	-	-	-	-	-	-
AH - Owner Occupied Housing Rehab and Façade Improvement Program	300,000	-	-	-	-	300,000	-	-	-	-
Application Software Replacement - Salesforce Facility Painting - Interior and Exterior	1,200,000	-	-	1,200,000	-	-	-	-	-	-
Fleet Management - Service Vehicle/Resonse	90,000	-	-	90,000	-	-	-	-	-	-
Heavy Equipment Replacement Project	200,000	-	-	200,000	-	-	-	-	-	-
Historic Preservation	850,000	-	-	850,000	-	-	-	-	-	-
Storm Drainage Project - Private Assistance	10,000	-	-	10,000	-	-	-	-	-	-
Storm Drainage Project - Town Properties	550,000	-	-	550,000	-	-	-	-	-	-
Stormwater Condition Assessment and Rehabilitation Program	600,000	-	-	-	-	600,000	-	-	-	-
Upgrade Pedestrian Crossings - Relocation of Push Buttons	700,000	-	-	-	-	700,000	-	-	-	-
TOTAL FY 2019 GENERAL GOVERNMENT ADOPTED CIB	\$5,155,000	\$0	\$0	\$2,905,000	\$0	\$2,250,000	\$0	\$0	\$0	\$0
Downtown										
Downtown Business Improvements District	350,000	-	-	-	-	350,000	-	-	-	-
Downtown Improvements	500,000	-	-	-	-	500,000	-	-	-	-
TOTAL FY 2019 DOWNTOWN ADOPTED CIB	\$850,000	\$0	\$0	\$0	\$0	\$850,000	\$0	\$0	\$0	\$0
GRAND TOTAL - FY 2019 ADOPTED CIB	\$52,466,469	\$12,360,336	\$6,262,029	\$5,849,564	\$530,500	\$5,650,000	\$16,228,040	\$3,116,000	\$1,070,000	\$1,400,000

UTILITY CAPITAL IMPROVEMENTS BUDGET REVENUE AND FUNDING SOURCES

Revenue and funding sources and related historical trends for the Fiscal Year 2019 capital improvements budget are discussed below. Revenue and funding sources are grouped by the project category to which they are assigned. Graphs are included for the major revenue and funding sources. Each graph presents nine years of actual data, FY 2018 estimated revenues and FY 2019 budgeted revenues.

UTILITY CAPITAL

Utility capital revenue and funding sources support utility related capital projects including the following:

Water

- Water Lines
- Water Storage Tanks
- Water Treatment Equipment
- Water Plant Expansions

Sewer

- Sewer Lines
- Pump Stations
- Water Reclamation Equipment
- Water Reclamation Facility Expansions

FUNDING SOURCES

- **Utility Fund Transfers: \$15,910,000**

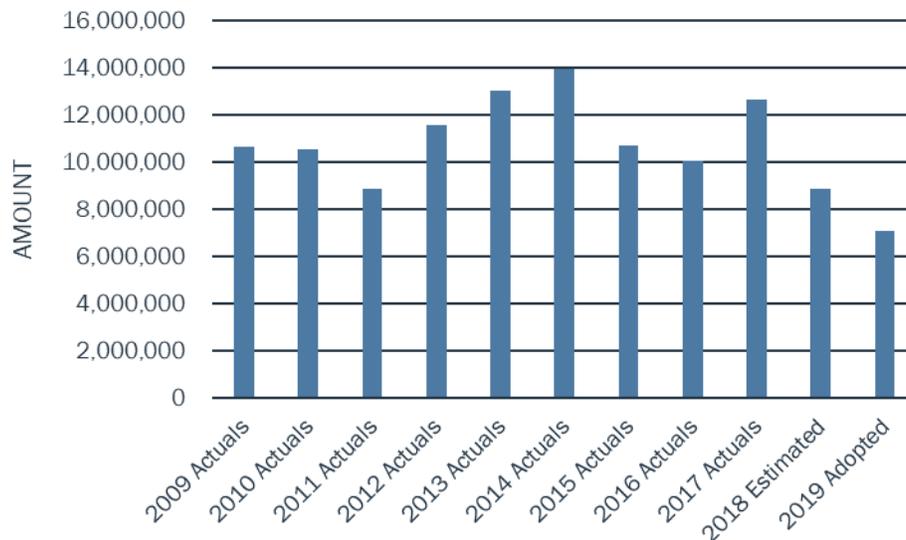
Fund balance transfers from the utility fund typically support projects for which funding has not been dedicated from other sources. The Town of Cary's utility rates are calculated using a multi-year rate smoothing approach initiated in FY 2009, which is designed to avoid large rate increases in years when significant amounts of debt must be issued, and to generate funds that can be transferred from the utility fund to reduce the amount of debt that must be issued. Rate smoothing spreads the effect of large projects on the rates over several years, avoiding large rate increases in any one year. The FY 2019 capital improvements budget includes a \$15,910,000 utility fund transfer in support of water and sewer utility capital needs.

- **Town of Apex Reimbursement for Town of Cary Utility Capital Projects: \$1,590,325**

The Cary/Apex Water Treatment Plant is jointly owned by the towns of Cary and Apex. Under the terms of the arrangement, the Town of Cary staffs and manages the facility and bears 77% of all operating and capital costs while the Town of Apex is responsible for the remaining 23%. The Town of Cary budgets for 100% of the operating and capital costs associated with the plant and requests reimbursement from the Town of Apex annually for its 23% share. The FY 2019 total capital appropriation for Cary/Apex Water Treatment Plant projects is \$6,845,000. The 23% Town of Apex reimbursement amount related to these capital appropriations is \$1,574,350. Reimbursement for a project at the Beaver Creek Pump Station, which is associated with the Western Wake Water Reclamation Facility, makes up the remaining Town of Apex FY 2019 reimbursement.

REVENUE SOURCES

- **Water and Sewer Development Fees: \$7,088,045**



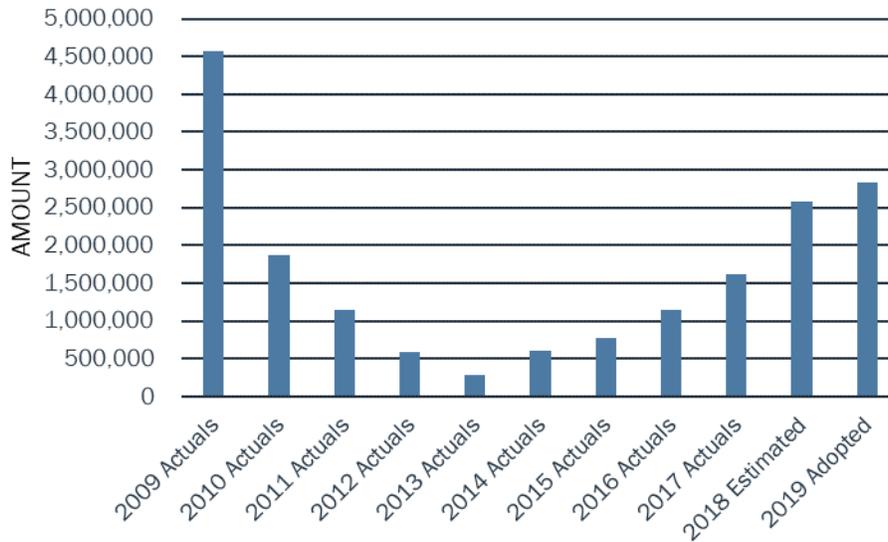
Utility related capital fees recoup the Town’s past and future investments in utility systems associated with the capacity of new users or increased capacity of existing users. These fees are associated with the capital cost of the utility systems for water, sanitary sewer and reclaimed water which includes but is not limited to infrastructure such as lines, treatment plants, pumping systems, tanks, control systems and maintenance facilities. System development fees are collected when new demand is generated through building permits for new development, requests for new meter boxes, requests for meter installation, or requests for new or changed customer accounts and are due at time of building permit issuance. For new development, the fee shall be paid based on proposed use and size of structure. For existing development, the fee shall be paid based on the increased demand only (reviewing prior use(s) vs. proposed use) at the current fee rate.

FY 2009 water and sewer development fee receipts of \$10,631,698 were 39% lower than FY 2008 receipts. The national economic downturn experienced in FY 2009 is the primary force behind decreased development during this fiscal year. A total of 1,067 residential and commercial building permits were issued in FY 2009 compared to 2,155 in FY 2008. FY 2011 was the trough of the downturn, and FY 2014 saw the peak in the “post-downturn” recovery with revenues of \$13.9 million. Water and sewer development fee revenues decreased a combined 28% over the next two fiscal years. FY 2017 receipts benefitted substantially from the permitting of three new apartment developments and one five story office building early in the fiscal year. Overall development fee revenue increased 25% in FY 2017 to \$12.6 million.

Water and sewer development fee revenue is estimated at \$8,860,057 for FY 2018. This is a 30% decrease from FY 2017 actual receipts. FY 2019 is projected to decrease another 20% from estimated FY 2018 revenues. As noted previously, the utilization of fee credits and reimbursements by developers can contribute to lower net revenue and are factored into the FY 2019 revenue estimate. Building permit levels and development fee earnings will be

monitored closely in FY 2019 and estimates will be adjusted upward should development activity substantially increase.

▪ **Interest Earned: \$2,839,290**



Interest Earned revenue represents the amount of money the Town earns on its invested funds held within the utility capital reserve fund. These earnings are categorized as unrestricted but must be used to fund utility capital projects according to North Carolina General Statute 159-30 which states that interest income must be credited to the fund that supplied the principal. The Town of Cary allocates these funds between water and sewer projects based on historical project funding levels with water projects receiving 50% of this income and sewer projects receiving 50%.

At \$276,683, FY 2013 saw the lowest level of interest earnings for the FYs 2009 – 2019 period. A general decline in interest rates due to the Federal Reserve’s response to economic conditions is primarily responsible for that year’s reduced rate of return on investments. FY 2018 interest revenue is estimated at \$2,573,056 or 60% higher than FY 2017 earnings. FY 2019 interest earnings are projected to increase 10% to \$2,839,290 based on rising interest rates.

GENERAL CAPITAL IMPROVEMENTS BUDGET

REVENUE AND FUNDING SOURCES

GENERAL CAPITAL

General capital revenue and funding sources support transportation, fire, parks, recreation and cultural resources, general government and downtown capital projects such as the following:

Transportation

- New roads
- Road widening
- Repaving
- Sidewalks

Parks, Recreation and Cultural Resources

- Community centers
- Greenways
- Parks

Downtown

- Downtown infrastructure improvements

Fire

- Fire stations
- Pumper trucks
- Aerial ladder trucks

General Government

- Vehicle replacements
- Town government building construction/expansion
- Stormwater condition assessments/rehabilitation

FUNDING SOURCES

- **General Obligation Bond Debt: \$10,667,336**

The FY 2019 capital improvements budget utilizes \$10,667,336 of appropriated but unissued 2012 transportation-focused General Obligation Bond funds for the completion of four street projects as noted below. Repayment of this debt has been factored into the Town's general fund debt repayment schedule.

Carpenter Fire Station Road/CSX Rail Grade Separation	\$8,743,969
Sidewalk and Pedestrian Improvements	\$600,000
Signal System – Upgrade Traffic Signal Controllers (Connected Vehicles)	\$400,000
Street Improvement Project	\$923,367
Total GO Bond Debt	\$10,667,336

▪ **Installment Purchase Debt: \$1,693,000**

The FY 2019 capital improvements budget appropriates \$1,693,000 of installment purchase debt in support of a portion of the following project. Repayment of this debt has been factored into the Town’s general fund debt repayment schedule.

\$1,693,000 Aerial Ladder Replacement

▪ **Grant Funding: \$6,262,029**

The Town of Cary has been awarded Locally Administered Projects Program (LAPP) grant funding for the four projects noted below.

Project Name	Grantor Contributed
GoCary Downtown Multi-Modal Station	\$2,000,000
Reedy Creek Rd Widening – NE Maynard Rd to N Harrison Ave	\$632,029
Signal System – Upgrade Traffic Signal Controllers (Connected Veh)	\$1,600,000
Higgins Greenway – Phase III – Maynard to Downtown	\$2,030,000
Total Grant Funds	\$6,262,029

▪ **Wake County Transit Tax: \$3,116,000**

Wake County voters approved a one-half percent (1/2%) sales and use tax on November 8, 2016 whose proceeds serve as a dedicated funding source for the implementation of the Wake County Transit Plan (WCTP). The WCTP is the adopted strategic transit vision for the region and incorporates elements of Cary’s transit capital infrastructure priorities. The Town of Cary’s FY 2019 CIB includes the WCTP approved GoCary transit infrastructure for this year and recognizes the anticipated receipt of \$3,116,000 in support of the following projects:

GoCary ADA Bus Stop Improvements	\$1,016,000
GoCary Downtown Multimodal Station	\$2,000,000
GoCary Wayfinding Signage	\$100,000
Total GoCary Funding	\$3,116,000

▪ **Interlocal Revenue: \$1,400,000**

Hotel/motel occupancy tax and prepared food and beverage taxes are collected by Wake County and distributed according to a tiered schedule to Wake County, the City of Raleigh, the Greater Raleigh Convention and Visitors Bureau and the Town of Cary. While uses of the funds are specifically defined for each entity receiving them, all uses center around bringing visitors to Wake County. The Town of Cary uses the funds to support cultural arts, recreational and athletic events, programs and promotions and construction, expansion and improvements for venues such as Koka Booth Amphitheatre at Regency, the USA Baseball National Training Facility at Thomas Brooks Park, WakeMed Soccer Park and the Cary Tennis Park.

Cary was awarded a \$10 million hotel/motel occupancy tax and prepared food and beverage tax distribution (referred to as interlocal revenue) with disbursements beginning in FY 2013 for four specific special venue expansion/improvements projects:

- WakeMed Soccer Park Expansion/Improvements – Phase I
- Cary Tennis Park Expansion/Improvements
- USA Baseball National Training Facility Expansion/Improvements
- WakeMed Soccer Park Expansion/Improvements – Phase II

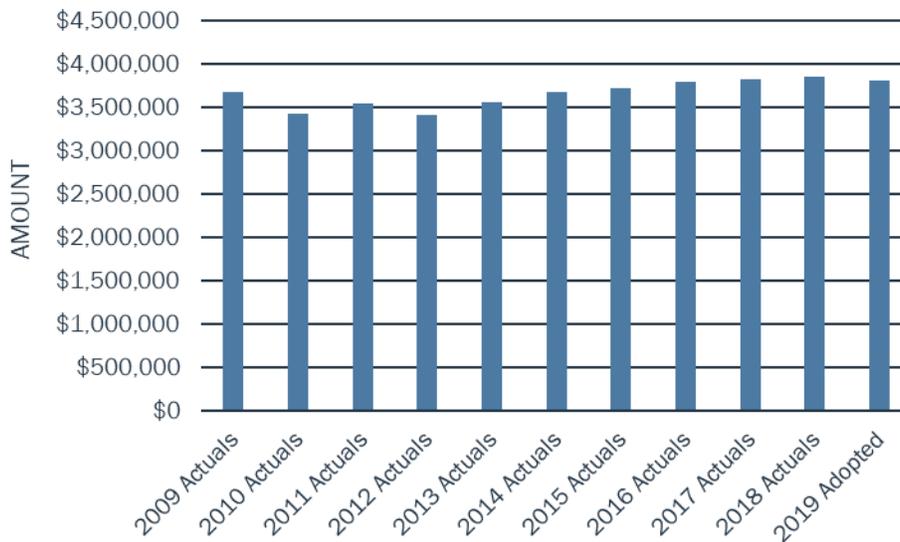
The \$10 million interlocal revenue award supports 50% of the total cost to complete these projects. The Town will fund the remaining \$10 million or 50%. The first disbursement of \$400,000 was received in FY 2013. The final payment will be distributed in FY 2019.

▪ **General Fund Transfer: \$5,650,000**

Fund balance transfers from the general fund typically support general capital projects for which funding has not been dedicated from other sources. General fund transfers in FY 2019 total \$5,650,000 and support a variety of transportation, PRCR and general government projects.

REVENUE SOURCES

▪ **Powell Bill: \$3,805,108**

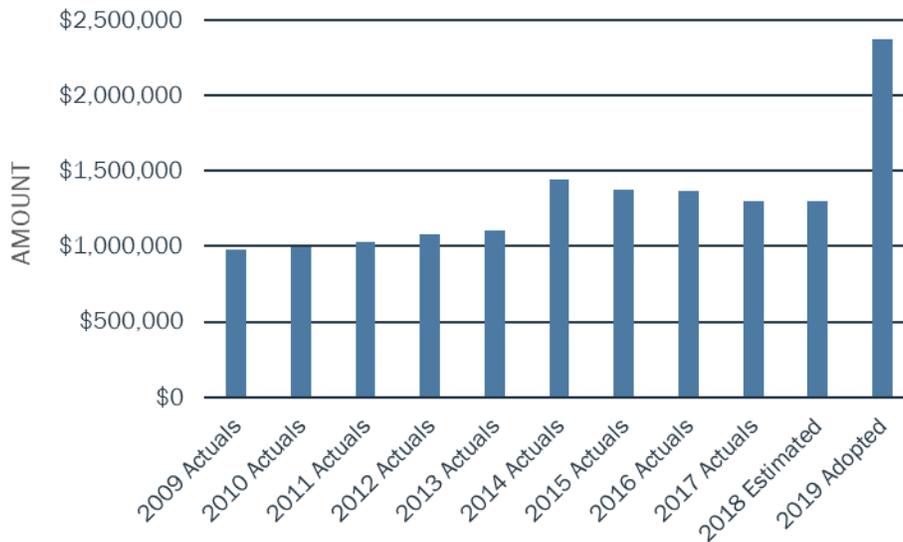


Powell Bill funds are a direct allocation provided by the State of North Carolina for the maintenance of non-state roadways. Powell Bill funds are distributed to municipalities according to a two-part formula. The number of non-state street miles within a municipality comprises one-quarter of the formula (currently projected to be 480.6 miles for the Town of Cary in FY 2017), while three-quarters of the formula is calculated on a per capita basis according to North Carolina General Statutes 136-41.1 through 136.41.4. The North Carolina League of Municipalities provides estimates for the statewide population and mileage rates. These rates

are applied in conjunction with the Town’s projected non-state street miles and population to derive the estimate of future receipts.

Expenditure of Powell Bill revenues is restricted to certain types of transportation projects. These revenues are distributed twice per year by the state on or before October 1 and on or before January 1. As such, FY 2018 revenues of \$3,849,599 represent actual receipts. The Town’s FY 2019 Powell Bill distribution is projected to be 1.2% less than FY 2018 actual receipts.

▪ **Vehicle License Fees: \$2,375,415**



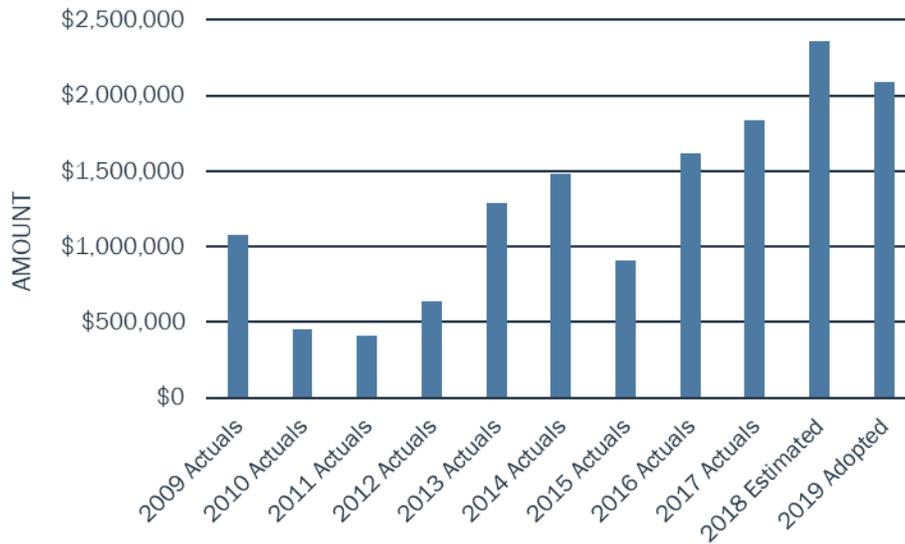
The Vehicle license fee tax is generated by the sale and/or renewal of vehicle licenses for vehicles owned by Cary residents. North Carolina General Statutes 20-97 and 20-97(a) give Cary the authority to impose a motor vehicle tax of not more than \$30 per year per resident vehicle for the following purposes: general use (not more than \$5 of the fee), public transportation (not more than \$5 of the fee) and maintaining, repairing, constructing, reconstructing, widening or improving streets in the town that are not part of the state highway system (remainder of the fee).

The FY 2019 Town of Cary vehicle license fee increases from \$15 to \$30 per resident vehicle per year. The bulk of the fee (\$20) supports streets maintenance and improvement, \$5 remains directed to public transportation, and sidewalk construction makes up the remaining \$5. As \$5 of the Town’s \$30 fee is restricted to the Town’s mainstream transit service, revenue generated by that portion of the fee is budgeted within the transit fund.

The North Carolina Department of Motor Vehicles assumed responsibility for vehicle tax and related fee billings in FY 2014. The new “Tax and Tag” system changed the timing of tax, registration and vehicle license payments for vehicle owners. As a result, vehicle owners with registration due dates late in the calendar year ultimately made two payments within a single fiscal year. This occurred only in the first year of the new program. The FY 2015 decrease in vehicle license fee revenue was due to the one-time revenue received in FY 2014.

FY 2018 receipts, based on the \$10 portion of the fee, are projected to be \$1,295,987. The FY 2019 budget amount of \$2,375,415 is 83% higher than projected FY 2018 revenue. This is due to an increase of \$10 portion of the vehicle license fee to \$20.

▪ **Transportation Development Fees: \$2,089,419**

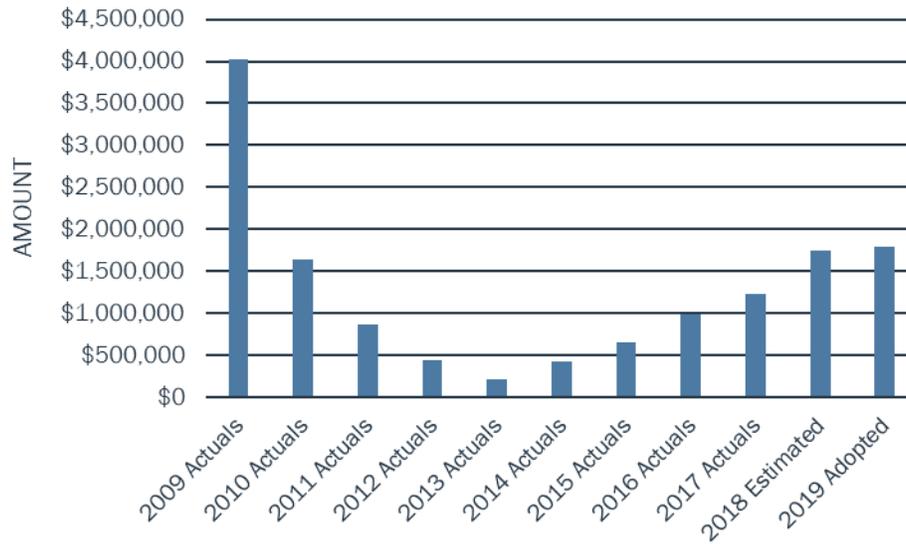


Transportation development fees (TDFs) are charged by the Town at the time of permit issuance for construction and improvement of thoroughfares to help support new development within the Town. Cary received authority to charge transportation development fees in 1987 with House Bill 684. The Town of Cary first utilized its transportation development fee authority in 1989. An independent analysis of the fee’s level is conducted periodically with the latest review having been presented to Council and approved by them in April 2015.

FY 2010 transportation development fee receipts of \$453,708 were 58% lower than FY 2009 receipts. The national economic downturn experienced in 2010 is the primary force behind decreased development during this fiscal year. FY 2014 saw the first peak in the “post-downturn” recovery with revenues of \$1.5 million.

Transportation development fee revenue is estimated at \$2,364,445 for FY 2018 representing a 29% increase over FY 2017 actuals. Transportation development fees are tied directly to volume and square footage of new construction. In FY 2018, the Town issued approximately 11% more single-family home permits compared to FY 2017 and experienced an 85% increase in non-residential new construction square footage. Significant projects that affected this increase included the MetLife Building 3, HealthPark at Kildaire, and a shell office building at Regency Park Building. Due to the high variance of transportation development fees, which are dependent on market factors, FY 2019 revenues are conservatively budgeted at \$2,089,419, or an 11.7% decrease from FY 2018’s estimates. Permit levels and development fee earnings will be monitored closely in FY 2019 and estimates will be adjusted upward should development activity substantially increase.

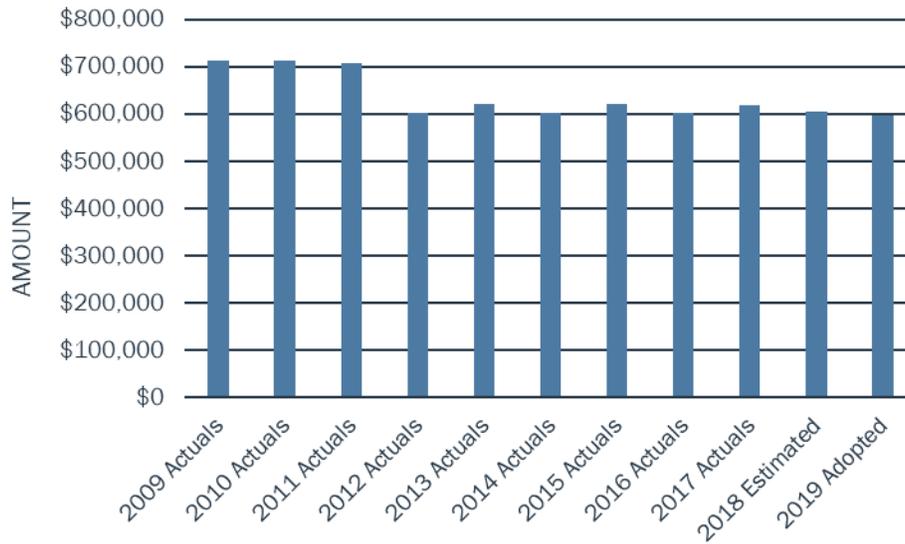
- **Interest Earned: \$1,796,300**



Interest earned represents the amount of money the Town earns on its invested funds held within the general capital reserve fund. These earnings are categorized as unrestricted but must be used to fund general capital projects according to North Carolina General Statute 159-30 which states that interest income must be credited to the fund that supplied the principal.

FY 2018 interest revenue is estimated at \$1,745,308 or 42% higher than FY 2017 earnings. FY 2019 interest earnings are projected to increase 3% above estimated FY 2018 based on rising interest rates.

▪ **Utility Franchise Fees: \$596,453**

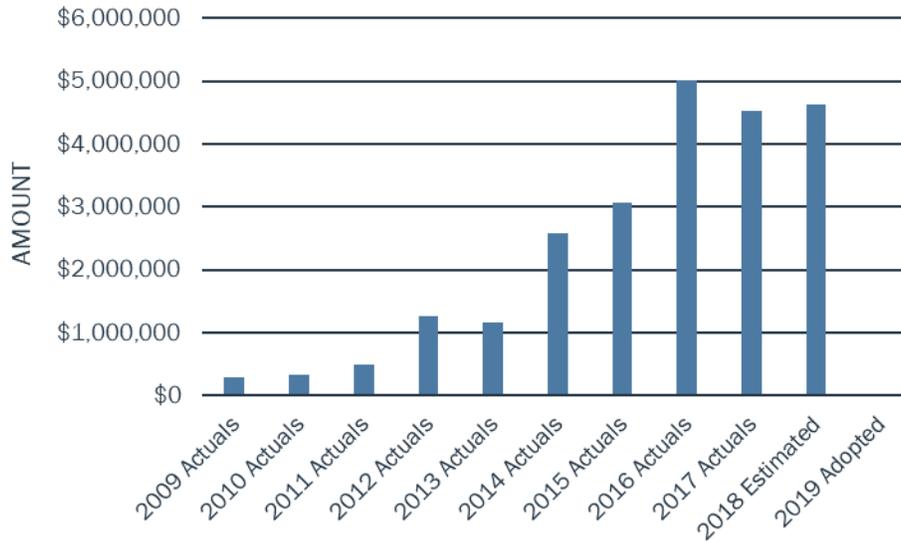


Per North Carolina State Session Law 2006-151, as of January 1, 2007, the State of North Carolina is the franchising authority for video services within the state. This legislation preempts local government franchising authority.

Under this legislation, percentages of sales tax collections on telecommunications, sales tax collections on cable service, and sales tax collections on home satellite television service are distributed to municipalities on a proportional basis. Cities and counties share portions of these three state taxes as replacement for expired local cable franchise fee agreements. The state distributes payments from the sales tax on video programming to counties and municipalities on a quarterly basis. The Town opts to allocate 60% of its video programming distribution to the general fund and 40% to the general capital reserve fund. This action is not mandated by the state. The portion of the distribution accounted for within the general capital reserve fund serves as unrestricted funding that may be appropriated to any general capital need.

FY 2018 utility franchise fee receipts are estimated to be \$603,297 or 2% less than FY 2017 receipts. FY 2019 budgeted revenues of \$596,453 represent a 1% decrease from the FY 2018 estimated amount to reflect the national trend in subscriber revenue for these services.

▪ **Park Payment-in-Lieu Fees: \$0**



The Town of Cary’s Land Development Ordinance requires developers to donate at least 1/35th of an acre of land for each single-family dwelling unit planned or proposed on the planned development master plan, mixed use preliminary development plan or reflected on a subdivision plat. Should the land that a developer plan to dedicate lie within a FEMA 100 year floodplain, wetlands, regulated stream buffers or have slopes greater than 15% percent, land should be dedicated at a rate of at least 1/20th of an acre per dwelling unit. Such areas should be reflected on the subdivision plat for the dedicated parcel.

Effective July 1, 2012, the Town’s Land Development Ordinance also requires developers of multi-family dwelling units not requiring subdivision plan approval to provide funds where the Town may acquire recreational land or areas to serve the development or more than multi-family development or residential subdivision. The multi-family recreation fund payment must be equal to 65% of the five-year rolling average subdivision recreation fund payment per dwelling unit. A combination of partial payment of funds and partial dedication of land may be required in instances where the Town Council determines that this combination is in the best interest of the citizens of the area to be served. Land to be dedicated in lieu of payment of funds must be equal to 1/55th of an acre for each dwelling unit for which dedication is to be made in lieu of fund payment.

Should the land that a developer plan to dedicate lie within a FEMA 100 year floodplain, wetlands, regulated stream buffers or have slopes greater than 15% percent, land should be dedicated at a rate of at least 1/40th of an acre per dwelling unit. Such areas should be reflected on the subdivision plat for the dedicated parcel.

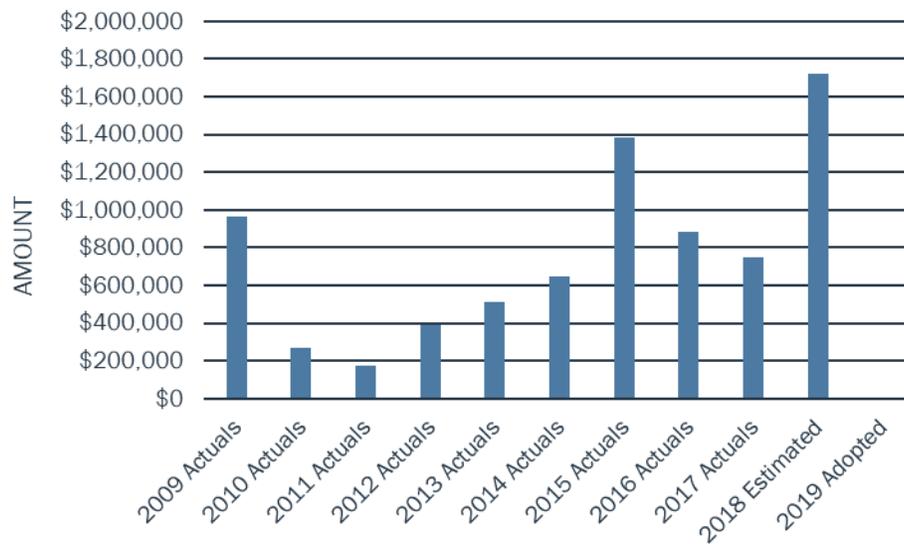
Per the Town’s Land Development Ordinance, the payment of fees in lieu of the dedication of land may occur at the request of the subdivider or developer. In most instances, payments in lieu of land dedication must be paid prior to recording any lots in the subdivision (for single

family development) or in accordance with an approved phasing plan, or prior to the issuance of the first building permit if there is no approved phasing plan (for multi-family development).

The Town does not annually budget for this revenue due to the unpredictability of receipts. Rather, receipts earned in a fiscal year are allowed to fall to general capital reserve fund balance where they are then appropriated in a future year in support of growth related and/or special venue park and greenway projects.

\$4,623,331 in Parks Payment-in-Lieu fees is estimated for FY 2018. This figure is 2% more than FY 2017 actual receipts of \$4,533,630.

▪ **Street, Sidewalk and Street Light Payment-in-Lieu Fees: \$0**



The Town of Cary's Land Development Ordinance requires that developers of subdivisions construct street, sidewalk and street light improvements within their developments and on adjacent property frontage that conform to Town standards. A payment in lieu of street, sidewalk or street light construction may be made to the Town should the developer prefer not to construct the required improvement. In these instances, the developer must provide the Town with a sealed engineer's estimate for the work to be constructed. The Town then reviews the estimate to ensure that it is in accordance with established standards. Should everything be in order, the payment in lieu request is approved by the Town and funds are accepted. Payments in lieu of improvements must be paid prior to initiation of site construction which includes final plat approval and grading permit issuance.

The Town does not annually budget for this revenue due to the unpredictability of receipts. Rather, receipts earned in a fiscal year can fall to fund balance where they are then appropriated in a future year. A total of \$1,724,293 in street, sidewalk and street light payment in lieu fees is estimated for FY 2018. This figure is 131% more than FY 2017 actual receipts of \$747,856.

CUMULATIVE IMPACTS OF FYS 2019 – 2029 CAPITAL IMPROVEMENTS BUDGET/PLAN PROJECTS ON THE OPERATING BUDGET

An important criterion to consider when developing a capital improvements budget/plan is the financial impact that a completed capital project will have on a municipality's operating budget. While some completed projects may have little to no staffing or operating/maintenance costs associated with them (i.e. the replacement of a culvert), others may bear considerable annual costs (i.e. the opening of a newly constructed fire station) that must be supported by the Town's operating budget.

The Town of Cary's capital budgeting process requires that costs of this nature be estimated for each project during project request development. Staffing costs (known as personnel costs) and operating and maintenance (O&M) costs are estimated in current fiscal year dollars and note the costs associated with staffing, operating, and maintaining the capital item during its first full year of operation. Schedules are then developed applying a 5% inflation rate per year to approximate future year operating budget impacts that the project will likely have on the operating funds.

The Town of Cary's operating impact forecasts are based on five key assumptions. These assumptions should be referenced when interpreting the tables and graphs outlining the cumulative impacts of the Town of Cary's current capital improvements plan on the Town's operating budget for the next ten years.

1. Operating impacts are defined as any staffing or maintenance needs associated with a completed capital project that must be met on an annual basis in order to run or maintain the item, facility or asset.
2. Operating impacts associated with capital projects coming on-line during FY 2019 are incorporated within the Town of Cary's Annual Operating Budget.
3. Operating impacts contained within these schedules are cumulative. For example, operating impacts beginning in FY 2019 are factored into the following years' impact figures.
4. Operating impacts are effective the first year that the project is complete and fully functioning.
5. Inflation for operating costs is calculated at 5% per year. The Town bases its inflation factor on construction, building and materials cost indices and is intentionally conservative (higher than current levels).

CUMULATIVE IMPACTS OF FYS 2019 - 2029 CAPITAL IMPROVEMENTS BUDGET/PLAN PROJECTS ON FUTURE OPERATING BUDGETS (INCLUDES ONLY PROJECTS WITH IDENTIFIED OPERATING IMPACTS)

Note: Operating impacts associated with capital projects coming on-line during FY 2019 are incorporated within the Town of Cary's Annual Operating Budget. Operating impacts contained within this schedule are effective the first year that a project is complete and fully functioning.

Project Category		Project Type	Project Title	Total Projected Personnel Cost Related to Projects in CIP	5%	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr
						2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
FIRE	Stations with Pumps	Fire Station 10 (O'Kelly Chapel Road)		\$10,799,250					1,377,750	1,432,750	1,487,750	1,542,750	1,597,750	1,652,750	1,707,750
FIRE	Stations with Pumps	Fire Station 11 (White Oak Church Rd)		7,983,750							1,487,750	1,542,750	1,597,750	1,652,750	1,707,750
FIRE	Stations with Pumps	Fire Station 12 (West Lake/Middle Creek)		6,796,500								1,612,875	1,670,375	1,727,875	1,785,375
FIRE	Stations with Pumps	Fire Station 13 (Lower Shop Road at 751)		3,360,500											1,652,750
FIRE	Stations with Pumps	Fire Station 14 (RDU/Pleasant Grove Ch. Rd)		1,707,750											1,707,750
FIRE	Stations with Pumps	Fire Station 15 (Ernest Jones Road and Mt. Plightn Ch. Rd)		1,707,750											1,707,750
PARKS	Community Centers	Herb Young Community Center Expansion		235,235											
PARKS	Community Centers	Western Cary Community Facility		5,890,500					75,1500	781,500	811,500	841,500	871,500	901,500	931,500
PARKS	Parks	McCrimmon Neighborhood Park		243,450			23,050	24,050	25,050	26,050	27,050	28,050	29,050	30,050	31,050
PARKS	Parks	Mills Park - Future Phases		173,300						26,050					
PARKS	Parks	Tray Road Neighborhood Park		90,150											
Total Estimated Personnel Impacts				\$38,991,135	\$0	\$23,050	\$24,050	\$24,050	\$21,543,300	\$22,663,350	\$3,841,100	\$5,596,975	\$6,824,525	\$7,793,468	\$11,468,318

Project Category		Project Type	Project Title	Total Projected Annual Cost Related to Projects in CIP	5%	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr	
						2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
FIRE	Stations with Pumps	Fire Station 10 (O'Kelly Chapel Road)		\$481,058					61,373	63,823	66,273	68,723	71,173	73,623	76,073	
FIRE	Stations with Pumps	Fire Station 10 (O'Kelly Chapel Road) Pumper		185,594			17,572	18,335	19,097	19,859	20,622	21,384	22,146	22,909	23,671	
FIRE	Stations with Pumps	Fire Station 11 (White Oak Church Rd)		363,125							67,625	70,125	72,625	75,125	77,625	
FIRE	Stations with Pumps	Fire Station 11 Pumper		110,731							20,622	21,384	22,146	22,909	23,671	
FIRE	Stations with Pumps	Fire Station 12 (West Lake/Middle Creek)		295,500							72,625	70,125	72,625	75,125	77,625	
FIRE	Stations with Pumps	Fire Station 12 (West Lake/Middle Creek) Pumper		90,110							22,909	21,384	22,146	22,909	23,671	
FIRE	Stations with Pumps	Fire Station 13 (Lower Shop Road at 751)		152,750											77,625	
FIRE	Stations with Pumps	Fire Station 14 (RDU/Pleasant Grove Ch. Rd)		77,625											77,625	
FIRE	Stations with Pumps	Fire Station 15 (Ernest Jones Rd. and Mt. Plightn Ch. Rd)		77,625											77,625	
FIRE	Special Facilities for Operations	Regional Public Safety Training Center		1,276,560								302,940	313,740	324,540	335,340	
FIRE	Special Facilities for Operations	911/Emergency Communications Back-Up Center		490,875					62,625	65,125	67,625	70,125	72,625	75,125	77,625	
GENERAL	Special Facilities for Operations	USA Facility Maintenance Hub		676,125									217,875	225,375	232,875	
PARKS	Community Centers	Herb Young Community Center Expansion		940,940										462,770	478,170	
PARKS	Community Centers	Western Cary Community Facility		14,726,250					1,878,750	1,953,750	2,028,750	2,103,750	2,178,750	2,253,750	2,328,750	
PARKS	Greenways	Batchelor Branch Greenway - Phases II and III		87,150							16,230	16,830	17,430	18,030	18,630	
PARKS	Greenways	Black Creek Greenway Renovation - Phases I, II & V		40,088					6,283	6,513	6,763	7,013	7,263	7,513	7,763	
PARKS	Greenways	Clabrick Creek Greenway - Bond Park Segment		14,775								3,506	3,631	3,756	3,881	
PARKS	Greenways	Dutchman's Branch Greenway - Phase I		58,905					7,515	7,815	8,115	8,415	8,715	9,015	9,315	
PARKS	Greenways	Greenwood Circle Greenway (Walnut Street Park)		18,330											9,315	
PARKS	Greenways	Hahler Grove Greenway		10,868											10,868	
PARKS	Greenways	Higgins Greenway - Maynard to Downtown		50,830			4,413	4,604	4,796	4,987	5,179	5,370	5,562	5,753	5,945	
PARKS	Greenways	Middle Creek School/Park Improvements		24,440											12,020	
PARKS	Greenways	O'Kelly Chapel Road Streetside Trail		18,330											9,315	
PARKS	Greenways	Parlier Creek Greenway - Phase II		68,520						10,420	10,820	11,220	11,620	12,020	12,420	
PARKS	Greenways	Philly Plains Greenway - Phase I		58,905					7,515	7,815	8,115	8,415	8,715	9,015	9,315	
PARKS	Greenways	Philly Plains Greenway - Phase II		36,660											18,030	
PARKS	Greenways	Sleight Branch Greenway - Phase II		45,075											14,525	
PARKS	Greenways	Swift Creek Greenway (From Bond Park to Laura Duncan Rd)		48,825											15,525	
PARKS	Greenways	Swift Creek Greenway (Lake Pine Drive to Regency Parkway)		256,950											23,288	
PARKS	Greenways	White Oak Creek Greenway Trailhead		1,217,250											46,575	
PARKS	Parks	Carver Fire Station Neighborhood Park		152,750					125,250	130,250	135,250	140,250	145,250	150,250	155,250	
PARKS	Parks	Eastern Gateway Park		730,350											77,625	
PARKS	Parks	McCrimmon Neighborhood Park		428,250					75,150	78,150	81,150	84,150	87,150	90,150	93,150	
PARKS	Parks	Mills Park - Future Phases		360,600						65,125	67,625	70,125	72,625	75,125	77,625	
PARKS	Parks	Tray Road Neighborhood Park		90,150											124,200	
PARKS	Public Art	Public Art - Carpenter Fire Station Neighborhood Park		16,259			1,729	1,804	1,879	1,954	2,029	2,104	2,179	2,254	2,329	
PARKS	Public Art	Public Art - Downtown Remarkable Destination		8,865											2,329	
PARKS	Public Art	Public Art - McCrimmon Neighborhood Park		18,259			1,729	1,804	1,879	1,954	2,029	2,104	2,179	2,254	2,329	
PARKS	Public Art	Public Art - Western Cary Community Facility		16,530					1,879	1,954	2,029	2,104	2,179	2,254	2,329	
PARKS	Renovations - Park and Greenway	Park and Greenway Renovations		33,188			2,881	3,006	3,131	3,256	3,381	3,506	3,631	3,756	3,881	
PARKS	Renovations - Park and Greenway	Sports Turf Field Development		330,960								78,540	81,340	84,140	86,940	
PARKS	Special Facilities	Sports Turf Field Replacement		330,960								78,540	81,340	84,140	86,940	
PARKS	Special Facilities	WakeMed Soccer Park Facility Improvements - Interlocal		9,818			8,068	8,418	8,768	9,118	9,468	9,818	10,168	10,518	10,868	
PARKS	Special Facilities	Park, Greenway and Facility Sign Plan Implementation		1,253					1,253	1,303	1,353	1,403	1,453	1,503	1,553	
TRANSPORTATION	Transit	GoCary Big Stop Solar Lighting Upgrades		199,125					18,788	19,038	19,288	19,538	19,788	20,038	20,288	
TRANSPORTATION	Transit	GoCary Downtown Multi-Modal Station		1,227,188					156,563	162,813	169,063	175,313	181,563	187,813	194,063	
TRANSPORTATION	Transit	GoCary New Customer Information Technology		83,650							13,525	14,025	14,525	15,025	15,525	
TRANSPORTATION	Transit	GoCary New Fare Technology		147,263					18,788	19,538	20,288	21,038	21,788	22,538	23,288	
TRANSPORTATION	Transit	GoCary Regional Operations and Maintenance Facility		1,227,188					156,563	162,813	169,063	175,313	181,563	187,813	194,063	
TRANSPORTATION	Transit	GoCary Transfer Center Improvements		589,050					75,150	78,150	81,150	84,150	87,150	90,150	93,150	
TRANSPORTATION	Control Systems	Signal System - Camera Coverage Expansion		3,631							676	701	726	751	776	
WATER	Other Water Projects	Aquaster Additional Infrastructure		203,345			2,305	2,405	2,505	2,605	2,705	2,805	2,905	3,005	3,105	
WATER	Community Projects	Coronado Village Due Diligence		108,938											23,288	
Total Estimated Operating Impacts				\$28,150,856	\$0	\$240,384	\$252,616	\$252,616	\$2,695,475	\$2,930,724	\$3,166,688	\$3,402,948	\$3,639,208	\$3,875,468	\$4,111,728	\$4,348,004
Total Estimated Operating Impacts				\$67,141,991	\$31,230	\$263,034	\$276,666	\$276,666	\$4,849,375	\$5,197,074	\$5,603,766	\$6,010,518	\$6,417,270	\$6,824,022	\$7,230,774	\$7,637,526

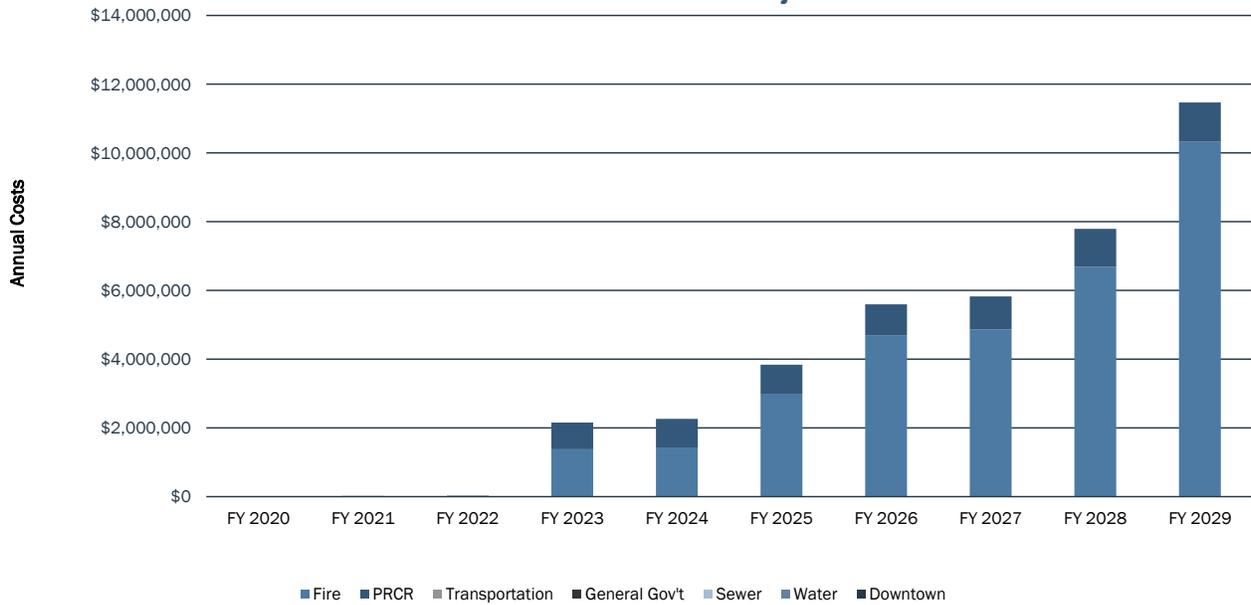
CUMULATIVE IMPACTS OF FYS 2019 - 2029 CAPITAL IMPROVEMENTS BUDGET/PLAN PROJECTS ON FUTURE OPERATING BUDGETS (BY OPERATING EXPENDITURE CATEGORY)

PERSONNEL IMPACTS - presented by Capital Project Type

Fiscal Year of Impact	Water	Sewer	Transportation	Fire	PRCR	General Gov't	Downtown	Total
FY 2020	-	-	-	-	-	-	-	-
FY 2021	-	-	-	-	23,050	-	-	23,050
FY 2022	-	-	-	-	24,050	-	-	24,050
FY 2023	-	-	-	1,377,750	776,550	-	-	2,154,300
FY 2024	-	-	-	1,432,750	833,600	-	-	2,266,350
FY 2025	-	-	-	2,975,500	865,600	-	-	3,841,100
FY 2026	-	-	-	4,698,375	897,600	-	-	5,595,975
FY 2027	-	-	-	4,865,875	958,650	-	-	5,824,525
FY 2028	-	-	-	6,686,125	1,107,343	-	-	7,793,468
FY 2029	-	-	-	10,324,125	1,144,193	-	-	11,468,318
Total	\$0	\$0	\$0	\$32,360,500	\$6,630,635	\$0	\$0	\$38,991,135

Note: Personnel impacts associated with capital projects coming on-line during FY 2019 are incorporated within the Town of Cary's Annual Operating Budget. Personnel impacts contained within this schedule are effective the first year that a project is complete and fully functioning.

Total Cumulative Personnel Costs Associated With FYs 2019-2029 CIB/P Projects



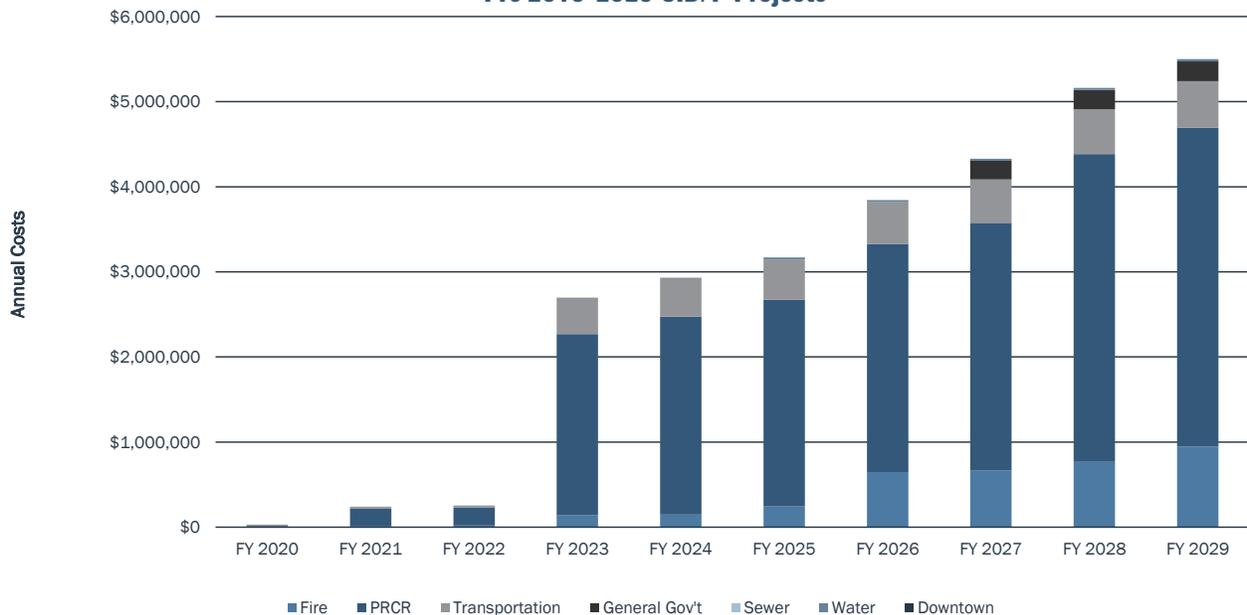
CUMULATIVE IMPACTS OF FYS 2019 - 2029 CAPITAL IMPROVEMENTS BUDGET/PLAN PROJECTS ON FUTURE OPERATING BUDGETS (BY OPERATING EXPENDITURE CATEGORY)

OPERATING & MAINTENANCE IMPACTS - *presented by Capital Project Type*

Fiscal Year of Impact	Water	Sewer	Transportation	Fire	PRCR	General Gov't	Downtown	Total
FY 2020	-	-	16,538	-	14,695	-	-	31,233
FY 2021	2,305	-	17,288	17,572	203,219	-	-	240,384
FY 2022	2,405	-	18,038	18,335	213,839	-	-	252,616
FY 2023	2,505	-	425,850	143,094	2,124,026	-	-	2,695,475
FY 2024	2,605	-	455,875	148,807	2,323,437	-	-	2,930,724
FY 2025	22,993	-	474,051	242,766	2,428,859	-	-	3,168,668
FY 2026	23,843	-	491,576	646,189	2,681,340	-	-	3,842,948
FY 2027	24,693	-	509,101	669,226	2,907,657	217,875	-	4,328,552
FY 2028	25,543	-	526,626	767,388	3,616,261	225,375	-	5,161,193
FY 2029	26,393	-	544,151	948,175	3,747,470	232,875	-	5,499,064
Total	\$133,283	\$0	\$3,479,094	\$3,601,553	\$20,260,802	\$676,125	\$0	\$28,150,856

Note: Operating impacts associated with capital projects coming on-line during FY 2019 are incorporated within the Town of Cary's Annual Operating Budget. Operating impacts contained within this schedule are effective the first year that a project is complete and fully functioning.

Total Cumulative Operating and Maintenance Costs Associated With FYs 2019-2029 CIB/P Projects

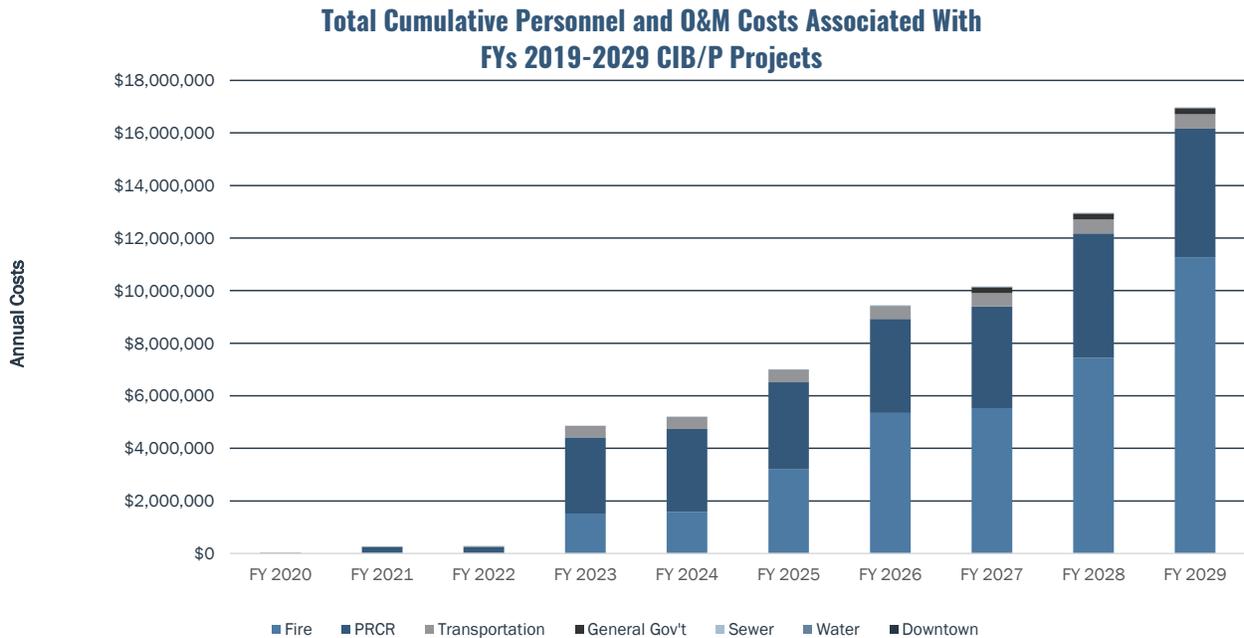


CUMULATIVE IMPACTS OF FYS 2019 - 2029 CAPITAL IMPROVEMENTS BUDGET/PLAN PROJECTS ON FUTURE OPERATING BUDGETS (BY OPERATING EXPENDITURE CATEGORY)

COMBINED IMPACTS (Personnel and O&M) - presented by Capital Project Type

Fiscal Year of Impact	Water	Sewer	Transportation	Fire	PRCR	General Gov't	Downtown	Total
FY 2020	-	-	16,538	-	14,695	-	-	31,233
FY 2021	2,305	-	17,288	17,572	226,269	-	-	263,434
FY 2022	2,405	-	18,038	18,335	237,889	-	-	276,666
FY 2023	2,505	-	425,850	1,520,844	2,900,576	-	-	4,849,775
FY 2024	2,605	-	455,875	1,581,557	3,157,037	-	-	5,197,074
FY 2025	22,993	-	474,051	3,218,266	3,294,459	-	-	7,009,768
FY 2026	23,843	-	491,576	5,344,564	3,578,940	-	-	9,438,923
FY 2027	24,693	-	509,101	5,535,101	3,866,307	217,875	-	10,153,077
FY 2028	25,543	-	526,626	7,453,513	4,723,603	225,375	-	12,954,660
FY 2029	26,393	-	544,151	11,272,300	4,891,662	232,875	-	16,967,381
Total	\$133,283	\$0	\$3,479,094	\$35,962,053	\$26,891,437	\$676,125	\$0	\$67,141,991

Note: Impacts associated with capital projects coming on-line during FY 2019 are incorporated within the Town of Cary's Annual Operating Budget. Impacts contained within this schedule are effective the first year that a project is complete and fully functioning.



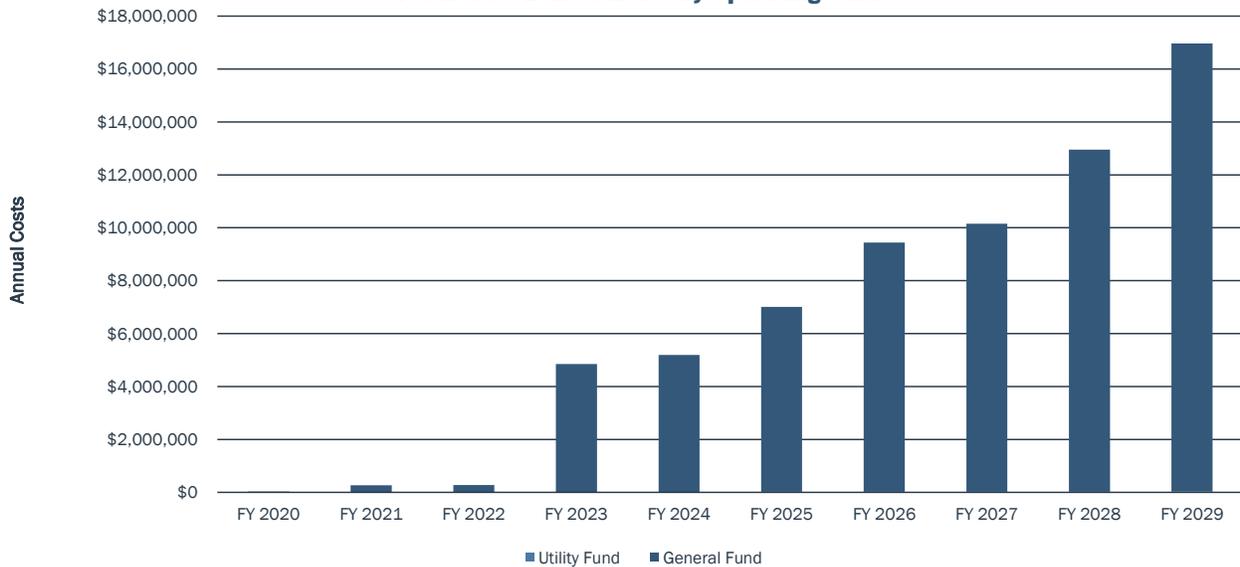
CUMULATIVE IMPACTS OF FYS 2019 - 2029 CAPITAL IMPROVEMENTS BUDGET/PLAN PROJECTS ON FUTURE OPERATING BUDGETS (BY OPERATING EXPENDITURE CATEGORY)

COMBINED IMPACTS (Personnel and O&M) - *presented by Operating Fund*

Fiscal Year of Impact	Utility Fund	General Fund	Total
FY 2020	-	31,233	31,233
FY 2021	2,305	261,129	263,434
FY 2022	2,405	274,261	276,666
FY 2023	2,505	4,847,270	4,849,775
FY 2024	2,605	5,194,469	5,197,074
FY 2025	22,993	6,986,776	7,009,768
FY 2026	23,843	9,415,081	9,438,923
FY 2027	24,693	10,128,384	10,153,077
FY 2028	25,543	12,929,118	12,954,660
FY 2029	26,393	16,940,989	16,967,381
Total	\$133,283	\$67,008,709	\$67,141,991

Note: Impacts associated with capital projects coming on-line during FY 2019 are incorporated within the Town of Cary's Annual Operating Budget. Impacts contained within this schedule are effective the first year that a project is complete and fully functioning.

**Total Operating Impacts (Personnel and O&M) of Projects Contained Within the
FYs 2019 - 2029 CIB/P - by Operating Fund**



**CAPITAL PROJECT SPENDING STATUS
ACTIVE PROJECTS AS OF JUNE 30, 2018**

	Project Category	Appropriations to Date	Expenditures to Date	Balance to Date	Percent Spent
	Water	\$227,948,320	\$160,176,014	\$67,772,306	70%
	Sewer	297,303,657	210,356,227	86,947,430	71%
	Total Utility Capital Projects	\$525,251,977	\$370,532,241	\$154,719,736	71%
	Transportation	\$163,105,691	\$86,142,470	\$76,963,221	53%
	Fire	14,896,000	3,480,156	11,415,844	23%
	Parks, Recreation, and Cultural Resources	81,273,969	40,062,081	41,211,888	49%
	General Government	42,002,339	26,085,718	15,916,621	62%
	Downtown	25,170,081	15,803,951	9,366,130	63%
	Total General Capital Projects	\$326,448,080	\$171,574,375	\$154,873,705	53%
	GRAND TOTAL	\$851,700,057	\$542,106,616	\$309,593,441	64%

WATER PROJECTS

Project Number	Project Name	Appropriations to Date	Expenditures to Date	Balance to Date	Percent Spent
WT1097	NC55 Water Line Extension - Phase II	\$2,337,000	\$2,015,446	\$321,554	86%
WT1129	Green Level West Road Water Line - Phase I	3,571,000	3,239,991	331,009	91%
WT1142	Wimberly Road Water Line	4,306,000	3,950,893	355,107	92%
WT1148	CAWTF - Phase III Expansion and Improv. - 56 MGD	78,375,000	76,961,273	1,413,727	98%
WT1157	TCAP - Streetscape Water Upgrades	840,178	1,313,000	(472,822)	156%
WT1161	Cary Parkway SW Water Line Reinforcement	8,650,000	859,174	7,790,826	10%
WT1163	CAWTF - Lake Aeration Mixing System	4,876,000	4,876,456	(456)	100%
WT1166	Holt Road to Davis Drive Waterline Connection	2,340,000	100,264	2,239,736	4%
WT1171	CAWTF - NC540 Water Conflicts	4,606,460	4,027,564	578,896	87%
WT1172	Old Apex Rd Waterline Reinforcement	1,694,000	87,487	1,606,513	5%
WT1177	Jordan Lake Partnership	407,500	214,516	192,984	53%
WT1178	Jenks Carpenter Rd - Holt Rd Waterline Reinforcement	4,428,000	21,561	4,406,439	0%
WT1189	Western Cary Water Storage Tank	9,310,000	9,351,960	(41,960)	100%
WT1191	Water Main Condition Assessment Program	425,000	146,235	278,765	34%
WT1194	CAWTF - Raw Water Pipeline	22,250,000	18,633,509	3,616,491	84%
WT1195	Cary/Raleigh Water System Interconnection	1,463,000	1,411,854	51,146	97%
WT1207	Cary Parkway and NC 54 Water Line Connection	200,000	128,414	71,587	64%
WT1212	Green Level West Water Line - Phase III	2,400,000	2,276,840	123,161	95%
WT1214	Kilmayne Water Storage Tank	7,600,000	6,431,316	1,168,684	85%
WT1216	Plumtree Tank Modifications	2,275,000	2,010,983	264,017	88%
WT1219	Water System Water Quality Enhancements	150,000	-	150,000	0%
WT1221	CAWTF - Residual Transfer Pump Replacements	400,000	-	400,000	0%
WT1223	Kit Creek Road Water Line Connection	725,000	72,173	652,827	10%
WT1228	Aquastar - Additional Infrastructure	75,000	-	75,000	0%
WT1230	CAWTF - Improvements - FY2015	105,000	68,365	36,635	65%
WT1231	CAWTF - Clearwell Repainting	175,000	3,200	171,800	2%
WT1233	Remote Water System SCADA Upgrades	150,000	88,847	61,153	59%
WT1236	CAWTF - Equipment Storage Building	50,000	-	50,000	0%
WT1238	CAWTF - Improvements - FY 2016	30,000	30,000	-	100%
WT1239	CAWTF - Jordan Lake Capacity Allocation	655,743	-	655,743	0%
WT1240	CAWTF - New Clearwell	5,400,000	-	5,400,000	0%
WT1241	CAWTF - Process Basin Rehabilitation	5,000,000	1,291,986	3,708,014	26%
WT1242	Crossroads Storage Tank and Pump Station	5,600,000	1,572,163	4,027,837	28%
WT1243	Water Main Extension - FY 2016	302,777	302,777	-	100%
WT1244	Holly Brook Water Line	2,776,439	2,072,872	703,567	75%
WT1245	Kildaire Farm Water Line Reinforcement Central	3,100,000	375,917	2,724,083	12%
WT1247	Water Line Upgrades - FY 2016	5,000,000	5,000,000	-	100%
WT1249	Water Resources Master Plan	500,000	364,405	135,595	73%
WT1250	Water System - Water Line Locating and Testing	700,000	175,000	525,000	25%
WT1251	Water System Valve Replacements - FY 2016	125,000	-	125,000	0%
WT1252	Arthur Pierce Rd WL Connection	250,000	250,000	-	100%
WT1254	Cary-Apex-Chatham Interconnection	50,000	-	50,000	0%

WATER PROJECTS (Continued)

Project Number	Project Name	Appropriations to Date	Expenditures to Date	Balance to Date	Percent Spent
WT1255	Cary-Apex-Holly Springs Interconnection	100,000	-	100,000	0%
WT1256	Water System Valve Replacements - FY 2017	125,000	-	125,000	0%
WT1257	Davis Drive Booster Pump Station Modifications	125,000	-	125,000	0%
WT1259	Water Main Extensions - FY 2017	306,216	283,584	22,632	93%
WT1260	New Water Storage Tank Sites	1,000,000	-	1,000,000	0%
WT1261	Towerview Court Water Line Connection	75,000	75,000	-	100%
WT1265	Water Line Upgrades FY 2017	5,000,000	4,765,999	234,001	95%
WT1267	Water Line Oversizings - FY 2017	152,000	-	152,000	0%
WT1268	Water System - Air Release Valve Replacements	300,000	7,288	292,712	2%
WT1269	CAWTF - Filter Pipe Gallery Piping Removal	150,000	-	150,000	0%
WT1270	CAWTF - Laboratory Information Management System	175,000	94,042	80,958	54%
WT1271	CAWTF - Process Conversion to Ozone/Biofiltration	4,500,000	-	4,500,000	0%
WT1272	CAWTF - Surge Tanks	720,000	-	720,000	0%
WT1273	CAWTF - Water System Radio Software and Antennas	400,000	-	400,000	0%
WT1274	Extend Water Mains FY18	302,447	302,447	-	100%
WT1275	Heavy Equipment Replacement - Water	400,000	117,086	282,914	29%
WT1276	Infrastructure GIS Asset Data - Water	200,000	-	200,000	0%
WT1277	Maynard Road Water Line Reinforcement - SE	1,590,000	32	1,589,968	0%
WT1278	Maynard Road Water Line Reinforcement - SW - Phase II	520,000	216,479	303,521	42%
WT1279	Morrisville Parkway Water Line Connections	350,000	-	350,000	0%
WT1280	NCDOT I-40 and Aviation Parkway Water Line Relocation	350,000	351,565	(1,565)	100%
WT1281	Tryon Road Water Line Upsizing	60,000	160,000	(100,000)	267%
WT1282	Upgrade Water Lines FY 2018	5,000,000	2,333,188	2,666,812	47%
WT1283	Water Line Oversizings FY 2018	160,000	-	160,000	0%
WT1284	White Oak Church Road Water Line	950,000	54,500	895,500	6%
WT1286	Water System Valve Replacements FY 2018	125,000	2,407	122,593	2%
WT1287	Water System Master Plan	350,000	-	350,000	0%
WT1288	NC540/MorrisPkwy Water Line	750,000	604,478	145,522	81%
WT1289	CAWTF-Future Expansion	700,000	533,887	166,113	76%
WT1290	CAWTF-Heavy Equipment Replacement	270,000	-	270,000	0%
WT1291	CAWTF-Chemical Feed Upgrades	200,000	-	200,000	0%
WT1292	CAWTF-Generator Switchgear Upgrades	250,000	-	250,000	0%
WT1293	CAWTF-Security Upgrades	250,000	-	250,000	0%
WT1294	Water Main Extensions & Valve Replacements FY 2019	801,310	11,254	790,056	1%
WT1295	Louis Stephens Drive Water Line Extensions	1,100,000	-	1,100,000	0%
WT1296	Roof Assessments & Rehabilitation - Water	50,000	-	50,000	0%
WT1297	Stephenson Road & TenTen Road Water Line West	125,000	-	125,000	0%
WT1298	Water Line Upgrades FY 2019	5,000,000	-	5,000,000	0%
WT1299	Water Line Oversizings FY 2019	168,000	-	168,000	0%
WT1300	Optimist Farm Rd Water Line - West	578,000	-	578,000	0%
WT5017	Annexation - Franklin Heights Water Line	416,250	415,113	1,138	100%
WT5018	Annexation - Pink Acres	130,000	121,227	8,773	93%
	TOTAL WATER PROJECTS	\$227,948,320	\$160,176,014	\$67,772,306	70%

SEWER PROJECTS

Project Number	Project Name	Appropriations to Date	Expenditures to Date	Balance to Date	Percent Spent
SW1105	Western Cary Collection System Odor Control	\$930,000	\$929,999	\$1	100%
SW1121	Wastewater SCADA	1,266,694	1,153,253	113,441	91%
SW1123	WWRWMF - New Water Reclamation Facility	136,678,379	136,065,488	612,891	100%
SW1130	Green Level Interceptor	7,510,969	7,289,102	221,867	97%
SW1138	NW Area/Jordan Lake Reclaimed Water - Phase II	7,457,176	5,073,592	2,383,584	68%
SW1143	WWRWMF - Western Cary Pump Station Upgrades	11,279,482	9,437,527	1,841,955	84%
SW1146	WWRWMF - Beaver Creek Pump Station	20,157,682	16,275,791	3,881,891	81%
SW1156	Force Main Inspection and Rehabilitation - FY 2008	3,600,000	3,600,000	-	100%
SW1157	MM - NW Cary Wastewater Conveyance to WWRWMF	818,000	818,000	-	100%
SW1171	Swift Creek Regional Pump Station Improvements	1,590,000	1,236,260	353,740	78%
SW1175	Wastewater Pump Station Improvements	1,794,014	1,279,531	514,483	71%

SEWER PROJECTS (Continued)

Project Number	Project Name	Appropriations to Date	Expenditures to Date	Balance to Date	Percent Spent
SW1176	Wastewater Pump Station Parallel Force Main	7,154,548	4,155,013	2,999,535	58%
SW1177	TCAP - Streetscape Sewer Upgrades	767,383	1,278,000	(510,617)	167%
SW1184	Crystone Pump Station Elimination	410,000	13,605	396,395	3%
SW1191	Paramount Pump Station Elimination	2,010,000	190,322	1,819,678	9%
SW1202	Force Main Inspection and Rehabilitation - FY 2010	2,500,000	288,561	2,211,439	12%
SW1203	Cleaning and Video Surveying of Sewer Interceptors	3,384,500	2,210,364	1,174,136	65%
SW1217	SCWRF - Headworks Upgrades	525,000	504,993	20,007	96%
SW1223	Reclaimed Water Main Extensions - FY 2012	105,000	64,044	40,956	61%
SW1239	Upper Crabtree Creek Pump Station and Force Main	4,180,000	257,250	3,922,750	6%
SW1240	Walnut Creek Pump Station Check Valve	265,000	159,546	105,454	60%
SW1241	Extend Reclaimed Water Mains - FY 2013	110,250	-	110,250	0%
SW1247	Lower Swift Creek Parallel Interceptor	3,150,000	81,695	3,068,305	3%
SW1251	SCWRF - Demolition of Lagoons	325,000	54,580	270,420	17%
SW1252	Force Main Easement Clearing	300,000	92,948	207,052	31%
SW1254	NCWRF - Mixer Replacement	700,000	571,177	128,823	82%
SW1257	Blanche Dr Sewer Improvements	175,000	2,580	172,420	1%
SW1260	Aviation PS Upgrade & York Interceptor Basin Study	1,650,000	1,421,344	228,656	86%
SW1263	NCWRF - SCADA Conversion	1,250,000	830,762	419,238	66%
SW1264	Sewer Flow Management Modeling	700,000	289,200	410,800	41%
SW1266	SCWRF - Facility Improvements	435,000	260,020	174,980	60%
SW1269	Jack Branch Interceptor	1,150,000	6,940	1,143,060	1%
SW1270	Lynn's Branch Parallel Interceptor	250,000	-	250,000	0%
SW1276	Reclaimed Water Blowoff Metering	210,000	210,000	-	100%
SW1279	Sewer System Repair/Rehabilitation - FY 2015	1,600,000	1,405,335	194,665	88%
SW1280	SCWRF - Aeration Basin and Air Header Repairs	275,000	112,339	162,661	41%
SW1284	Winding Pine Regional PS, Gravity Sewer & Force Main	13,300,000	944,675	12,355,325	7%
SW1286	Reclaimed Water Main Extension - FY 2016	127,628	-	127,628	0%
SW1287	Terrace II Pump Station Elimination	250,000	5,712	244,288	2%
SW1288	Hollybrook - Phases I - III Sewer Extension	2,886,706	2,580,226	306,480	89%
SW1290	NCWRF-Diffused Air System	12,820,000	1,313,595	11,506,405	10%
SW1291	NCWRF - Clarifier Equipment Repair and Replacement	350,000	317,745	32,255	91%
SW1292	NCWRF - Diffuser and Air Piping Replacement	500,000	99,526	400,474	20%
SW1295	NCWRF - Variable Frequency Drive Replacement	200,000	37,535	162,465	19%
SW1296	Pump Station Variable Frequency Drive Replacement	250,000	-	250,000	0%
SW1300	SCWRF - Dryer - Centrifuge Rebuild	175,000	175,000	-	100%
SW1301	SCWRF - Dryer - Dewatered Cake Pump	225,000	92,841	132,159	41%
SW1302	SCWRF - Dryer - Drum Replacement	1,200,000	-	1,200,000	0%
SW1303	Sewer System Repair/Rehabilitation - FY 2016	2,730,407	1,099,463	1,630,944	40%
SW1305	Reclaimed Water Main Extensions - FY 2017	134,010	-	134,010	0%
SW1308	RDU Center Pump Station Force Main Replacements	1,570,000	1,578,410	(8,410)	101%
SW1311	SCWRF-Clarifier Equipment Replacement	500,000	175,728	324,272	35%
SW1312	SCWRF - Generator Auto Transfer Switch Replacement	140,000	50,000	90,000	36%
SW1313	SCWRF - Dryer - Dewatered Cake Mixer Replacement	100,000	-	100,000	0%
SW1314	SCWRF-Thermal Biosolids Dryer-Mixer Repair	100,000	-	100,000	0%
SW1315	SCWRF- Biosolids Dryer - Induction Fan Replacements	5,985,982	409,143	5,576,839	7%
SW1319	Wastewater Pump Station Improvements - FY 2017	604,213	224,000	380,213	37%
SW1320	Wastewater Pump Station Parallel Force Main - FY2017	6,370,452	735,236	5,635,216	12%
SW1321	Heavy Equipment Replacement - Sewer	1,300,000	939,652	360,349	72%
SW1322	I-40 Pump Station Improvements	300,000	192,479	107,521	64%
SW1323	KCPS & MBRPS Parallel Force Main Green Level Church	2,800,000	-	2,800,000	0%
SW1325	NCWRF - Improv. for Continuous 3-Train Operations	50,000	-	50,000	0%
SW1326	Reclaimed Water Line Oversizing FY 2018	167,475	-	167,475	0%
SW1327	Sanitary Sewer O/S FY18	195,000	-	195,000	0%
SW1329	SCWRF-Aeration Basin Recycling Pump Replacement	160,000	79,980	80,020	50%
SW1330	SCWRF-Peak Flow Mgmt Study	150,000	-	150,000	0%
SW1331	SCWRF-Gravity Belt Rehabilitation	150,000	-	150,000	0%
SW1333	SCWRF-Variable Frequency Drive Replacement	400,000	-	400,000	0%
SW1334	Sewer System Replacement/Rehabilitation FY 2018	5,428,112	612,000	4,816,112	11%
SW1335	Wastewater System Master Plan Update	250,000	-	250,000	0%
SW1336	Misc. Pump Station Grinder Rebuild FY 2018	150,000	53,266	96,734	36%

SEWER PROJECTS (Continued)

Project Number	Project Name	Appropriations to Date	Expenditures to Date	Balance to Date	Percent Spent
SW1337	Sewer Monitoring - Bloomberg Grant	100,000	88,300	11,700	88%
SW1338	Reclaimed Water Main Extensions - FY 2018	147,746	-	147,746	0%
SW1339	Green Level Sewer Interceptor Odor Control	600,000	-	600,000	0%
SW1340	Infrastructure GIS Asset Data-WW	200,000	-	200,000	0%
SW1341	Morris Carpenter Road Reclaimed Water Line	914,000	-	914,000	0%
SW1342	Reclaimed Water Line Oversizing FY 2019	175,849	-	175,849	0%
SW1343	Roof Assessments & Rehabilitation - Sewer	75,000	-	75,000	0%
SW1344	Sanitary Sewer Oversizing FY 2019	200,000	-	200,000	0%
SW1345	SCADA Tier2 Wastewater Pump Station	500,000	-	500,000	0%
SW1346	SCWRF-Plant Drain PS Improvements	125,000	-	125,000	0%
SW1347	SCWRF-Polish Pond Liner Replacement	250,000	-	250,000	0%
SW1348	Sewer System Replacement/Rehabilitation FY 2019	500,000	-	500,000	0%
SW1349	Wastewater Pump Station Improvements	750,000	-	750,000	0%
SW1350	Wastewater Pump Station Parallel Force Mains FY 2019	2,900,000	-	2,900,000	0%
SW1351	West Cary PS Dumpster Enclosure	75,000	-	75,000	0%
SW1352	WWWRF-Beaver Creek Dumpster & Bar Screen	75,000	-	75,000	0%
SW1353	NCWRF-HVAC Replacements FY 2019	30,000	-	30,000	0%
SW5017	Annexation - Franklin Heights Sewer Line	787,000	726,291	60,709	92%
SW5018	Annexation - Pink Acres	215,000	206,267	8,734	96%
	TOTAL SEWER PROJECTS	\$297,303,657	\$210,356,227	\$86,947,430	71%

TRANSPORTATION PROJECTS

Project Number	Project Name	Appropriations to Date	Expenditures to Date	Balance to Date	Percent Spent
ST1107	Traffic Calming	\$735,835	\$566,657	\$169,178	77%
ST1116	Sidewalk Improvements - FY 2004	500,000	500,000	-	100%
ST1123	Morrisville Parkway Extension - Ph III	16,835,383	16,835,377	6	100%
ST1129	Traffic Signals - FY 2005	200,000	183,690	16,310	92%
ST1131	Thoroughfare Street Lighting	250,000	214,216	35,784	86%
ST1143	Traffic Signals - FY 2006	243,818	222,356	21,462	91%
ST1147	Sidewalk Improvements - FY 2007	1,000,000	1,000,000	-	100%
ST1157	Traffic Signals - FY 2007	300,000	214,931	85,069	72%
ST1173	Traffic Signals - FY 2008	229,967	5,375	224,592	2%
ST1179	Sidewalk Improvements - FY 2009	1,000,000	1,000,000	-	100%
ST1196	Sidewalk Improvements - FY 2011	500,000	500,000	1	100%
ST1198	Traffic Signals - FY 2011	400,000	165,108	234,892	41%
ST1204	Carpenter Fire Station Road/CSX Rail Grade Separation	30,219,969	9,487,967	20,732,002	31%
ST1206	Green Level West Road Widening	5,951,020	5,638,495	312,525	95%
ST1207	Reedy Creek Road Improvements	13,787,500	1,106,204	12,681,296	8%
ST1208	Walnut Street Improvements	5,521,774	6,639,076	(1,117,302)	120%
ST1210	Sidewalk Improvements - FY 2012	500,000	500,000	-	100%
ST1211	Bicycle Facility Implementation - FY 2012	20,000	10,067	9,933	50%
ST1217	Traffic Signals - FY 2012	200,000	38,146	161,854	19%
ST1220	Morrisville Parkway Interchange	3,121,717	1,552,108	1,569,609	50%
ST1223	Sidewalk Improvements - FY 2013	500,000	486,590	13,410	97%
ST1224	Bicycle Facility Implementation - FY 2013	20,000	16,768	3,232	84%
ST1226	Traffic Signals - FY 2013	250,000	31,625	218,375	13%
ST1230	Cary Parkway - Evans Road to N Harrison Avenue	2,800,000	2,799,166	834	100%
ST1231	Cary Parkway and High House Road Intersection	4,970,089	4,196,760	773,329	84%
ST1237	Intersection Improvements - Reduce Congestion	4,813,515	3,827,818	985,697	80%
ST1238	DT - Streetscape Improvements - Academy St./Dry Ave.	7,650,000	6,453,256	1,196,744	84%
ST1239	Signal System - 2012 Bond	2,454,859	2,454,859	(0)	100%
ST1240	Sidewalks - 2012 Bond	1,832,000	223,720	1,608,280	12%
ST1241	Bicycle Facility Improvements - 2012 Bond	975,700	711,476	264,224	73%
ST1244	Sidewalk Improvements - FY 2015	600,000	570,739	29,261	95%
ST1245	Lake Pine Widening and Sidewalk Improvements	433,000	133,000	300,000	31%
ST1246	Spot Improvements - FY 2015	250,000	144,184	105,817	58%
ST1247	Traffic Signals FY2015	250,000	6	249,994	0%

TRANSPORTATION PROJECTS (Continued)

Project Number	Project Name	Appropriations to Date	Expenditures to Date	Balance to Date	Percent Spent
ST1248	Morrisville Parkway Interchange - NCTA	5,100,000	-	5,100,000	0%
ST1249	Yates Store Road Through Montvale	500,000	-	500,000	0%
ST1251	Intersection Improvements - FY 2016	1,000,000	617,770	382,230	62%
ST1252	Morrisville Pkwy - Carpenter Upchurch Rd Intersection	1,264,310	1,117,785	146,525	88%
ST1253	Sidewalk and Pedestrian Improvements - FY 2016	780,000	705,000	75,000	90%
ST1255	Spot Improvements - FY 2016	200,000	50,474	149,526	25%
ST1258	GoCary Transit - FY 2017	15,000	12,724	2,276	85%
ST1259	Intersection Improvements - FY 2017	3,250,000	200,000	3,050,000	6%
ST1260	Sidewalk Improvements - FY 2017	1,000,000	322,765	677,235	32%
ST1261	Street Improvements - FY 2017	6,927,000	6,926,270	730	100%
ST1262	Aviation Pkwy Sidewalk - NE Quad. at I-40 Interchange	56,000	50,000	6,000	89%
ST1263	Bicycle Facilities Implementation	25,000	-	25,000	0%
ST1264	GoCary ADA Bus Stop Improvements	1,911,000	-	1,911,000	0%
ST1265	GoCary Bus Stop Sign Replacement	43,000	-	43,000	0%
ST1266	GoCary Capital Amenities	150,000	-	150,000	0%
ST1267	GoCary Regional Operations and Maintenance Facility	1,000,000	-	1,000,000	0%
ST1268	Sidewalk and Pedestrian Improvements	1,070,000	136,928	933,072	13%
ST1269	Spot Improvements - FY 2018	225,000	31,404	193,596	14%
ST1270	Street Improvement Project	6,500,000	5,709,599	790,401	88%
ST1271	Traffic Signals FY 2018	400,000	-	400,000	0%
ST1272	Bridge and Culvert Repairs FY 2018	85,000	-	85,000	0%
ST1273	Carpenter Fire Station Rd Widening	4,250,000	915,204	3,334,796	22%
ST1274	Transit Feasibility Studies	600,000	570,000	30,000	95%
ST1275	Bicycle Facilities Implementation FY 2019	25,000	-	25,000	0%
ST1276	GoCary Multimodal Station	4,000,000	-	4,000,000	0%
ST1277	GoCary Wayfinding Signage	100,000	-	100,000	0%
ST1278	Sidewalk & Pedestrian Improvements FY 2019	1,750,000	-	1,750,000	0%
ST1279	Traffic Signal System Control Upgrades	2,000,000	-	2,000,000	0%
ST1280	Street Improvements FY 2019	7,100,000	289,474	6,810,526	4%
ST1281	Spot Improvements - FY 2019	150,000	-	150,000	0%
ST1282	Thoroughfare Street Lights FY 2019	200,000	-	200,000	0%
ST6000	STM - Storm Drainage - MAIN	974,235	-	974,235	0%
ST6039	STM-Kilarney 1600B	25,000	-	25,000	0%
ST6040	STM-Two Creeks	550,000	-	550,000	0%
ST6041	STM-Arbor Brook	563,000	57,335	505,665	10%
ST6042	STM-Pamlico SCM Easement	1,000	-	1,000	0%
	TOTAL TRANSPORTATION PROJECTS	\$163,105,691	\$86,142,470	\$76,963,221	53%

FIRE PROJECTS

Project Number	Project Name	Appropriations to Date	Expenditures to Date	Balance to Date	Percent Spent
FR1038	Traffic Signal Pre-emption - Phase II	396,000	102,906	293,094	26%
FR1044	Fire Station - Northwestern Cary	925,000	820,364	104,636	89%
FR1047	Fire Station - Southwestern Cary	800,000	3,200	796,800	0%
FR1048	Fire Station #9 - Walnut Street Area	7,900,000	802,647	7,097,353	10%
FR1050	Fire Station #2 Foundation Repairs	250,000	41,110	208,890	16%
FR1051	Aerial Ladder Truck - Northwestern Area	1,225,000	1,093,368	131,632	89%
FR1054	Fire Pumper Replacement #1706	650,000	616,560	33,440	95%
FR1055	Aerial Ladder Replacements #1978 & #1997	2,750,000	-	2,750,000	0%
	TOTAL FIRE PROJECTS	\$14,896,000	\$3,480,156	\$11,415,844	23%

PARKS, RECREATION, AND CULTURAL RESOURCES (PRCR) PROJECTS

Project Number	Project Name	Appropriations to Date	Expenditures to Date	Balance to Date	Percent Spent
PR1039	Greenway Land and Open Space	1,480,300	1,265,988	214,312	86%
PR1111	Mills Park	1,810,000	1,620,967	189,033	90%
PR1128	AM Howard Farm	179,789	147,331	32,458	82%
PR1129	Black Creek Greenway Renovation - Phases I and II	5,626,000	412,360	5,213,640	7%
PR1143	Roberts Road Park	250,000	-	250,000	0%
PR1146	Sertoma Amphitheatre and Restroom Renovation	99,886	100,088	(202)	100%
PR1151	Old Reedy Creek Road Trailhead and Park	1,005,000	981,346	23,654	98%
PR1158	PRCR Venue Wayfinding Signage	243,000	153,379	89,621	63%
PR1159	Park Greenway and Facility Sign Plan	445,000	348,362	96,638	78%
PR1164	USAB Facility Improvements - Interlocal	6,455,000	695,694	5,759,306	11%
PR1166	Crabtree Creek Greenway	5,398,000	5,023,182	374,818	93%
PR1180	Park and Greenway Renovation - FY 2013	130,000	116,930	13,070	90%
PR1182	Cary Tennis Park Court Renovations	925,000	860,580	64,420	93%
PR1184	Mills Park - Phase II	1,070,000	152,515	917,485	14%
PR1185	DT - Downtown Park	5,435,170	5,357,425	77,745	99%
PR1186	White Oak Greenway - American Tobacco Trail Section	5,630,070	4,322,750	1,307,320	77%
PR1187	Panther Branch Greenway - Cameron Pond	4,856,939	121,113	4,735,826	2%
PR1188	Sports Turf Fields	2,601,355	2,333,100	268,255	90%
PR1189	Landscape Architect - BONDS	362,510	361,311	1,199	100%
PR1190	Artificial Turf Fields	1,918,450	1,705,690	212,760	89%
PR1193	Cary Tennis Park Expansion - Interlocal	7,380,500	5,142,650	2,237,850	70%
PR1197	Park and Greenway Renovation - FY 2014	140,000	140,000	-	100%
PR1202	Soccer Park Improvements - Phase II - Interlocal	3,520,000	1,276,538	2,243,462	36%
PR1211	Park and Greenway Renovations - FY 2015	226,000	211,388	14,612	94%
PR1213	White Oak Creek Greenway Trailhead	185,000	20,000	165,000	11%
PR1218	Hinshaw Greenway Renovation	200,000	-	200,000	0%
PR1220	Koka Booth Amphitheatre Improvements - FY 2016	350,000	308,504	41,496	88%
PR1222	Park and Greenway Renovation - FY 2016	255,000	201,096	53,904	79%
PR1227	Sertoma Amphitheater Improvements	200,000	196,011	3,989	98%
PR1230	WakeMed Soccer Park Improvements - FY 2016	220,000	35,010	184,990	16%
PR1232	DT - Public Art - Parking Deck	168,100	168,100	-	100%
PR1236	Thomas Brooks/NTC Field Drainage / Replacement	1,500,000	366,314	1,133,686	24%
PR1237	DT - Downtown Park Master Plan	861,900	721,896	140,004	84%
PR1238	Greenway Resurfacing - FY 2017	262,000	237,851	24,149	91%
PR1239	Kids Together Park - Misting Garden	130,000	79,143	50,857	61%
PR1240	MacDonald Woods Park Restrooms	300,000	263,337	36,663	88%
PR1241	Mills Park Community Center Plan	50,000	-	50,000	0%
PR1242	P-006 Neighborhood Park	600,000	86,549	513,451	14%
PR1245	Public Art - Carpenter Park	60,000	60,000	-	100%
PR1246	Public Art - Kids Together Misting Garden	40,000	40,000	-	100%
PR1247	Recreation Facility Improvements	330,000	127,959	202,041	39%
PR1248	Recreation Facility Sound System Replacement	90,000	-	90,000	0%
PR1251	White Oak Greenway - MacArthur	7,007,500	919,916	6,087,584	13%
PR1252	Western Cary Disc Golf	120,000	50,423	69,578	42%
PR1253	Greenway Storm Damage Repair	550,000	546,803	3,197	99%
PR1255	P-010 Neighborhood Park	850,000	70,000	780,000	8%
PR1256	Park & Greenway Renovations FY 2018	270,000	42,559	227,441	16%
PR1257	Playground Surface Repairs FY 2018	83,000	83,000	-	100%
PR1258	Public Art-Black Creek Greenway	35,000	35,000	-	100%
PR1259	Public Art-P-006 Neighborhood Park	10,000	10,000	-	100%
PR1260	Public Art-P-010 Neighborhood Park	10,000	10,000	-	100%
PR1261	Public Art-Parks & Greenway Amenities	20,000	-	20,000	0%
PR1262	Tennis Court Renovations FY 2018	72,000	72,000	-	100%
PR1263	Annie Jones & Dunham Tennis Courts	200,000	-	200,000	0%
PR1264	Greenway Bridges & Surface Repairs FY 2018	350,000	85,805	264,195	25%
PR1266	Sports Venue Assessment - Interlocal	130,000	123,000	7,000	95%
PR1267	Higgins Greenway	3,300,000	193,917	3,106,083	6%
PR1268	Swift Creek Greenway Construction	300,000	-	300,000	0%
PR1269	Cary Tennis Park Lighting / Bleacher Improvements	1,115,000	217,202	897,798	19%
PR1270	Athletic Field Fencing Amenities FY 2019	125,000	-	125,000	0%

PARKS, RECREATION, AND CULTURAL RESOURCES (PRCR) PROJECTS (Continued)

Project Number	Project Name	Appropriations to Date	Expenditures to Date	Balance to Date	Percent Spent
PR1271	Athletic Field Fencing Repair/Replacements FY 2019	88,000	-	88,000	0%
PR1272	Athletic Field Light Replacements	440,000	440,000	-	100%
PR1273	Greenway Pedestrian Structure Repairs	50,000	-	50,000	0%
PR1274	Greenway Resurfacing FY 2019	320,000	-	320,000	0%
PR1275	Park & Greenway Renovations FY 2019	365,000	-	365,000	0%
PR1276	Playground Surface Repairs FY 2019	110,500	-	110,500	0%
PR1277	PRCR Facility Improvements	215,000	-	215,000	0%
PR1278	Public Art-Higgins Greenway	50,000	-	50,000	0%
PR1279	Public Art-West Cary Community Facility	50,000	-	50,000	0%
PR1280	Tennis Court Fencing Replacement FY 2019	125,000	-	125,000	0%
PR1281	Tennis Court Renovations FY 2019	173,000	-	173,000	0%
PR1282	WakeMed Soccer Park Interlocal Small Projects	1,400,000	1,400,000	-	100%
PR1283	Koka Booth Amphitheater Improvements FY 2019	350,000	-	350,000	0%
	TOTAL PRCR PROJECTS	\$81,273,969	\$40,062,081	\$41,211,888	49%

GENERAL GOVERNMENT PROJECTS

Project Number	Project Name	Appropriations to Date	Expenditures to Date	Balance to Date	Percent Spent
GG1075	Sanitation and Recycling Truck Replacement	16,290,965	15,248,830	1,042,135	94%
GG1106	Fiber Optics Cable Plan	100,000	61,236	38,764	61%
GG1109	Historic Preservation Implementation	56,000	30,429	25,571	54%
GG1111	Work Order Management/311	850,000	789,078	60,922	93%
GG1113	Conference Room Technology Upgrades	215,400	165,709	49,691	77%
GG1119	PW and Utilities Facility Improvements - Phase I - Dixon	400,000	43,205	356,795	11%
GG1126	Garmon Operations Center Improvements - Phase II	2,250,000	2,184,443	65,557	97%
GG1129	Parking Lot Resurfacing - FY 2015	169,650	162,563	7,087	96%
GG1130	Storm Water Condition Assessment - FY 2015	1,250,000	533,299	716,701	43%
GG1132	Town Website Overhaul	505,000	460,795	44,205	91%
GG1135	Pedestrian Crossing Upgrades	150,000	22,579	127,421	15%
GG1139	Heavy Equipment Replacement	2,850,000	1,966,580	883,420	69%
GG1141	Parking Lot Resurfacing - FY 2016	124,650	110,749	13,901	89%
GG1142	Relamping Town Facilities	225,000	138,898	86,102	62%
GG1143	Cary Green Program - NRW/Wells	54,078	47,527	6,551	88%
GG1144	Application Software Replacement	2,000,000	1,073,019	926,981	54%
GG1146	Evidence Room Expansion or Relocation	2,200,000	49,000	2,151,000	2%
GG1147	Roof Assessment & Rehabilitation	1,170,000	540,146	629,854	46%
GG1149	ADA Improvements-Town Facilities	835,350	36,139	799,211	4%
GG1150	Electric Vehicle Charging Stations - Library Parking Deck	110,000	110,000	-	100%
GG1152	Historic Town Facility Preservation	1,000,000	-	1,000,000	0%
GG1153	HVAC Replacement & Maintenance FY 2018	120,000	80,997	39,003	67%
GG1154	Parking Lot Resurfacing FY 2018	101,000	-	101,000	0%
GG1155	Sand & Salt Storage Structure	150,000	-	150,000	0%
GG1156	Town Hall Pedestrian Bridge	300,000	111,985	188,015	37%
GG1157	Imagine Cary Act Studies	75,000	-	75,000	0%
GG1158	Stormwater Jet-Vac Truck	400,000	-	400,000	0%
GG1159	Stormwater Outpost & Camera	200,000	156,044	43,956	78%
GG1160	Facility Painting Interior & Exterior FY 2019	90,000	-	90,000	0%
GG1161	Fleet Field Service / Response Vehicle	200,000	-	200,000	0%
GG1162	Stormwater Condition Assessment	700,000	-	700,000	0%
GG4000	AH - Affordable Housing - Main Project	84,913	-	84,913	0%
GG4001	AH - Housing Rehabilitation	1,265,211	771,636	493,575	61%
GG4002	AH - Downtown Rehabilitation and Façade Improvements	493,591	332,435	161,156	67%
GG4004	AH - Affordable Housing Administration	49,145	49,145	-	100%
GG4005	AH - Minimum Housing Demolition	124,500	54,989	69,511	44%
GG5000	Land - Land Banking (Main)	1,076,046	-	1,076,046	0%
GG5001	Land - Miscellaneous Unassigned Expenditures	142,180	141,180	1,000	99%
GG5018	Land - 7017 Carpenter Fire Station Road	5,000	900	4,100	18%
GG6000	STM - Town Property Storm Drainage Project - Main	1,160,819	-	1,160,819	0%

GENERAL GOVERNMENT PROJECTS (Continued)

Project Number	Project Name	Appropriations to Date	Expenditures to Date	Balance to Date	Percent Spent
GG6006	STM - 112 Summer Lakes Dr	879,595	145,507	734,088	17%
GG6008	STM - 1516 Kilarney	282,000	262,293	19,707	93%
GG6013	STM-S Walker Street	10,000	6,440	3,560	64%
GG7000	STM - Storm Water - Private - MAIN	900,246	11,694	888,553	1%
GG7015	STM - Joel Ct at Bayoak Dr	222,000	53,290	168,710	24%
GG7016	STM - West High near Jodhpur	50,000	42,896	7,104	86%
GG7017	STM - Two Creeks Near Plaintiffree	75,000	60,765	14,236	81%
GG7019	STM-910 Brookgreen	20,000	14,425	5,575	72%
GG7020	STM-1600 Kilarney	20,000	14,873	5,127	74%
TOTAL GENERAL GOVERNMENT PROJECTS		\$42,002,339	\$26,085,718	\$15,916,621	62%

DOWNTOWN PROJECTS

Project Number	Project Name	Appropriations to Date	Expenditures to Date	Balance to Date	Percent Spent
DT1000	DT-Downtown Available Funds	2,527,238	-	2,527,238	0%
DT1108	DT-Business Improvement District Development Fees	1,050,399	534,564	515,835	51%
DT1117	DT-Mayton Inn Access Road	106,124	106,123	1	100%
DT1123	DT-Regional Stormwater	1,214,590	113,790	1,100,800	9%
DT1127	DT-Land Downtown Park	5,000	1,299	3,701	26%
DT1128	DT-Midtown Square Sidewalks	292,660	292,660	-	100%
DT1129	DT-Library Parking Structure	14,150,000	14,040,000	110,000	99%
DT1130	DT-118,120, & 124 Park Street Demolitions	45,000	43,550	1,450	97%
DT1131	DT-Development Opportunities	5,000,000	-	5,000,000	0%
DT1132	DT- Library Lower Level	630,000	630,000	-	100%
DT1133	DT-Downtown Facade Assistance	9,070	9,070	-	100%
DT1134	DT-Development Around Park	25,000	7,500	17,500	30%
DT1135	DT-Chatham St Parking Spaces	15,000	11,795	3,205	79%
DT1136	DT-Jones House Updates	100,000	13,600	86,400	14%
TOTAL DOWNTOWN PROJECTS		\$25,170,081	\$15,803,951	\$9,366,130	63%

PROJECTS CLOSED OR PENDING CLOSURE AS OF JUNE 30, 2018

PROJECT #	ESTIMATED FINAL PROJECT COST	PROJECT DESCRIPTION
-----------	------------------------------	---------------------

WATER PROJECTS

WT1156	\$1,000	Water System Monitoring Protection Project
WT1167	147,890	Large Valve Repair/Replacement
WT1193	1,558,997	Long Range Water Resources Plan
WT1198	104,223	Old Apex Tank Flow Meter, Control Valve and Vault
WT1199	366,681	Old Apex Tank Modeling Study and Add. Storage Improv.
WT1200	2,938	Pressure Zone Separation Control Valve Improvements
WT1206	107,932	C/AWTF - Air Release Valve Upgrades
WT1209	75,844	C/AWTF - Raw Water Line Cleaning
WT1213	634,810	Harrison Elevated Water Tank Renovation
WT1227	406,115	NCDOT P-5201 Morrisville Pkwy RR Grade Sep
WT1232	190,775	C/AWTF - Ozone Generator Reconditioning
WT1234	599,531	Upgrade Water Lines - FY 2015
WT1246	64,255	Throttling Valve at Surles Court Pump Station
WT1258	-	Elevated Water Storage Tank Repainting - Carpenter
WT1263	157,823	Heavy Equipment Replacement - Water (Dump Truck)
WT1285	-	Water Storage Tank Repainting - Old Apex
	\$4,418,815	TOTAL CLOSED OR PENDING CLOSURE WATER PROJECTS

SEWER PROJECTS

SW1091	\$215,600	Force Main Discharge Manhole Coating
SW1115	47,500	Kit Creek Basin Sanitary Sewers
SW1127	160,000	Telemetry Upgrades for Morrisville WW Pump Stations
SW1132	3,054,652	Kit Creek Basin Sanitary Sewers
SW1144	6,137,592	WWR-W Cary Force Main South
SW1148	3,534,062	WWRWMF-SCADA
SW1154	2,088,818	Biosolid Aeration System Improvements
SW1155	424,380	Crabtree Interceptor/York Interceptor Improvements
SW1174	432,487	Walnut Creek Pump Station Electrical Improvements
SW1182	22,666,301	WWRWMF - Effluent Pipeline Phase 2
SW1186	358,844	MacGregor Pump Station Elimination
SW1200	1,373,487	WWRWMF - Water and Sewer Policy Implementation
SW1211	302,125	Updated Reclaimed Water System Master Plan
SW1232	1,293,991	Sewer System Repair / Rehabilitation - FY 2012
SW1235	1,282,209	Kit Creek Pump Station Improvements
SW1238	784,210	Morris Branch Pump Station Improvements

ESTIMATED FINAL		
PROJECT #	PROJECT COST	PROJECT DESCRIPTION
SEWER PROJECTS (Continued)		
SW1245	500,000	Sewer System Repair/Rehabilitation - FY 2013
SW1249		- Nancy Branch Interceptor Capacity Improvements
SW1256	117,035	Copperleaf Reserve Easement Acquisition
SW1258		- Blanche Drive Pump Station Expansion
SW1259	341,675	Holly Springs Road Sewer Rehabilitation
SW1265	237,040	SCWRF - Replace High Efficiency Turbo Blower
SW1272	48,235	NCWRF - Pavement Repairs
SW1274	199,788	NCWRF - Variable Frequency Drive Replacement
SW1299	68,700	SCWRF - Roof Replacement
SW1309		- Reclaimed Water Line Oversizings - FY 2017
SW1310		- Sanitary Sewer Oversizings - FY 2017
SW1324	109,703	NCWRF - Forklift - new
SW1328		- SCWRF - Aeration Basin Blower Replacements
SW1332		- SCWRF - HVAC Replacement
	\$45,778,433	TOTAL CLOSED OR PENDING CLOSURE SEWER PROJECTS

TRANSPORTATION PROJECTS

ST1084	\$9,490,872	Kildaire Farm Road Widening
ST1146	391,589	Annexation Areas - Street Repaving
ST1158	1,933,366	TCAP - Walker Street Extension
ST1187	266,582	Traffic Signalization - FY 2009
ST1222	1,255,000	Cary Transit (C-Tran) - Land Acquisition - Transit Facility
ST1234	13,796	Green Level West Bridge Replacement Sidewalk
ST1235	149,575	Traffic Signal - Cary Glen/Carpenter Fire Station
ST1243	4,969,657	Street Improvements Project - FY 2015
ST1254	257,068	Signal System - Camera Coverage Expansion
ST1257	49,493	Green Level Church at Horton Creek
ST1258	12,724	Cary Transit - FY 2017
ST6025	35,701	STM - Green Level Church
ST6029	54,000	STM - Greg Dr at Key West Mews
ST6030	3,200	STM - Walnut Near Warren Avenue
ST6032	123,707	STM - Stonewater Glen
ST6033	1,226	STM - Queensferry Drainage
ST6034	13,028	STM - Trailing Fig Culvert Repair
ST6036	7,890	STM - Bowden Street Drainage Improvements
ST6037	81,885	STM - Bridle Creek Culvert Assessment
ST6038		- STM - Storm Court
	\$19,110,360	TOTAL CLOSED OR PENDING CLOSURE TRANSPORTATION PROJECTS

PROJECT #	ESTIMATED FINAL PROJECT COST	PROJECT DESCRIPTION
-----------	------------------------------	---------------------

FIRE PROJECTS

FR1052	\$596,786	Fire Pumper Replacement
	\$596,786	TOTAL CLOSED OR PENDING CLOSURE FIRE PROJECTS

PARKS, RECREATION AND CULTURAL RESOURCES (PRCR) PROJECTS

PR1074	\$4,323,455	Jack Smith Park
PR1095	2,045,473	New Hope Church Road Trailhead Park
PR1140	68,300	TCAP/Public Art - Walker Street Extension
PR1144	2,967,581	Carpenter Neighborhood Park
PR1155	100,000	Cary Tennis Park Court Renovations
PR1221	74,999	Meeting Place Pocket Park
PR1231	50,685	Cary Tennis Park - Lighting and Scoreboard
PR1243	122,015	Park and Greenway Renovations - FY 2017
PR1250	115,980	Tennis Court Renovations - FY 2017
PR1254	-	Athletic Field Bleacher Replacement - FY 2018
PR1265	303,000	Koka Booth Amphitheatre Lighting Replacement
	\$10,171,488	TOTAL CLOSED OR PENDING CLOSURE PRCR PROJECTS

GENERAL GOVERNMENT PROJECTS

GG1066	\$8,711,982	Radio System Upgrade
GG1078	1,532,408	Replace of the Computer-Aided Dispatch (CAD) System
GG1082	1,417,570	PAMDR - Unnamed Tributary Swift Creek - Phase II
GG1112	667,658	One Solution Software
GG1138	48,961	Facility Security
GG1148	9,869	Electric Vehicle Charging Stations - Duke Grant
GG1151	69,798	Facility Painting Interior and Exterior - FY 2018
GG7009	49,669	STM - 937 Ralph Drive Twiss/Clark
GG7011	-	STM - King George Stream Restoration
GG7014	306,876	STM - Park James @ Kirkfield
	\$12,814,791	TOTAL CLOSED OR PENDING CLOSURE GENERAL GOVERNMENT PROJECTS

DOWNTOWN PROJECTS

DT1124	\$158,514	DT - 212 E Cedar Parking Lot
	\$158,514	TOTAL CLOSED OR PENDING CLOSURE DOWNTOWN PROJECTS

FISCAL YEAR 2019 UTILITY CAPITAL IMPROVEMENTS

WATER CAPITAL IMPROVEMENTS FUND

If utilizing this document in PDF, click on any item below to link to that information.

A.	\$270,000	CAWTF - New Heavy Duty Equipment
B.	200,000	CAWTF - Chemical Feed System Upgrades of Aging Equipment
C.	250,000	CAWTF - Generator Switchgear Upgrades
D.	875,000	CAWTF - Phase III Expansion
E.	1,000,000	CAWTF - Process Basin Rehabilitation/Restoration
F.	4,000,000	CAWTF - Process Conversion to Ozone/Biofiltration
G.	250,000	CAWTF - Security Upgrades
H.	801,310	Extend and Relocate Water Mains and Install Valves
I.	200,000	Heavy Equipment Replacement - Water
J.	420,000	Holt Road to Davis Drive Water Line Connection
K.	175,000	Jenks-Carpenter/Holt Road Water Line Reinforcement
L.	1,100,000	Louis Stephens Drive Extension Water Line (U-5827)
M.	578,000	Optimist Farm Road Water Line - West
N.	50,000	Roof Assessments and Rehabilitation - Water
O.	125,000	Stephenson Road Water Line and Ten Ten Road Water Line West
P.	5,000,000	Upgrade Water Lines
Q.	168,000	Water Line Oversizings and Related Infrastructure Acceptance Requirements
R.	50,000	Water Main Condition Assessment
S.	175,000	Water System - Critical Water Line Locating and Testing
	<u>\$15,687,310</u>	Total

In the following individual project description pages, the estimated personnel, operating and maintenance impacts are provided to show a more comprehensive view of each project. Some projects will be completed mid-year; the impact shown is for the first full year after the project is complete. Any impact that begins after FY 2019 has been adjusted for inflation in the outer years.

Inflation is conservatively factored in at 5% per year. Some projects do not show annual impacts although there may be minor maintenance investments at various intervals after project completion.

A. WATER

PROJECT TITLE: Cary/Apex Water Treatment Facility – New Heavy-Duty Equipment

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$270,000

FIRST YEAR ESTIMATED OPERATING COSTS: \$1,500

PROJECT DESCRIPTION:

This project provides for the purchase of a new crane truck and a new telehandler truck to be utilized at the Cary/Apex Water Treatment Facility (C/A WTF).

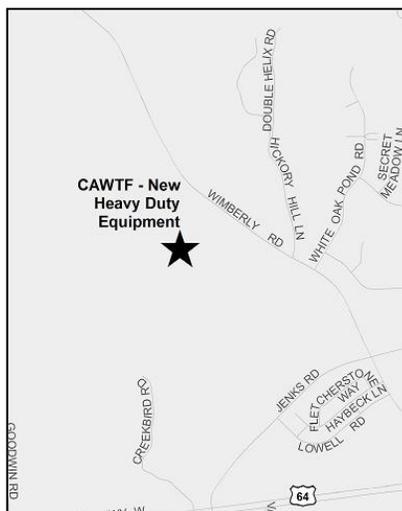
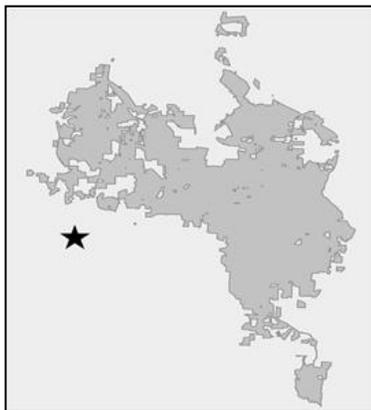
C/A WTF staff are charged with maintenance of water system and elevated storage tank control valves that are located throughout the town and contain components too heavy to lift without machine assistance. The unit frequently borrows a similar truck from other divisions making it unavailable to those crews for a period of time. Having a crane truck dedicated for use by C/A WTF staff will make scheduling maintenance easier and not detract from other divisions' ability to carry out their work. As such, Apex is not expected to share in the cost of this crane truck, but will share the cost of the telehandler loader per the terms below.

The \$270,000 FY 2019 appropriation fully funds the purchase of each of these pieces of equipment. As with all Cary/Apex Water Treatment Facility projects, the Town of Apex is responsible for 23% of the project cost while the Town of Cary addresses the remaining 77%.

PROJECT JUSTIFICATION:

The purchase of a telehandler truck for use by C/A WTF will offer a safer, more efficient way for staff to move heavy objects across uneven terrain and allow for increased access to areas not easily accessible by the lift.

PROJECT LOCATION:



B. WATER

PROJECT TITLE: Cary/Apex Water Treatment Facility – Chemical Feed System Upgrades

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$200,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

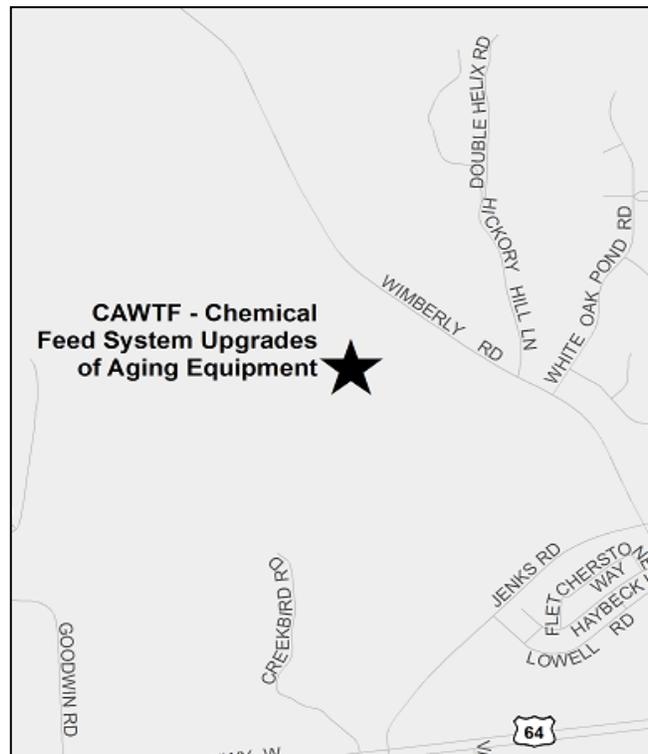
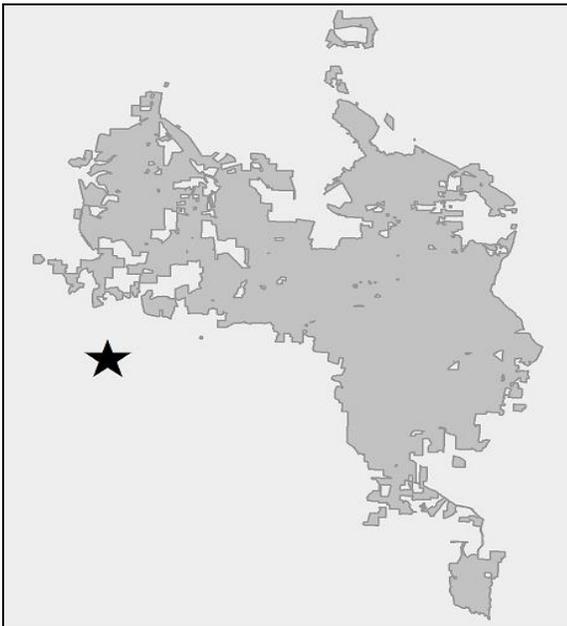
PROJECT DESCRIPTION:

This project provides for the replacement of aging chemical feed system components at the Cary/Apex Water Treatment Facility with upgraded components not included within the Phase III Expansion project's scope. The \$200,000 FY 2019 appropriation fully funds this project. As with all Cary/Apex Water Treatment Facility projects, the Town of Apex is responsible for 23% of the project cost while the Town of Cary addresses the remaining 77%.

PROJECT JUSTIFICATION:

Loss of reliable chemical feed system components or chemical pumping capacity due to system failure would limit the facility's ability to meet service levels needed to adequately supply drinking water to Town customers.

PROJECT LOCATION:



C. WATER

PROJECT TITLE: Cary/Apex Water Treatment Facility – Generator Switchgear Upgrades

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$250,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

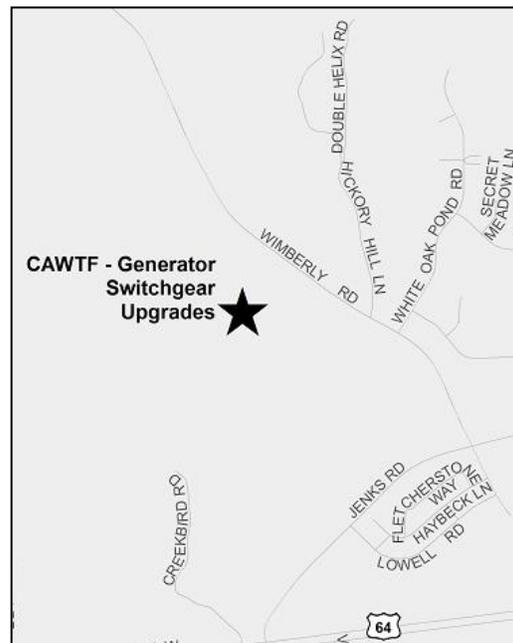
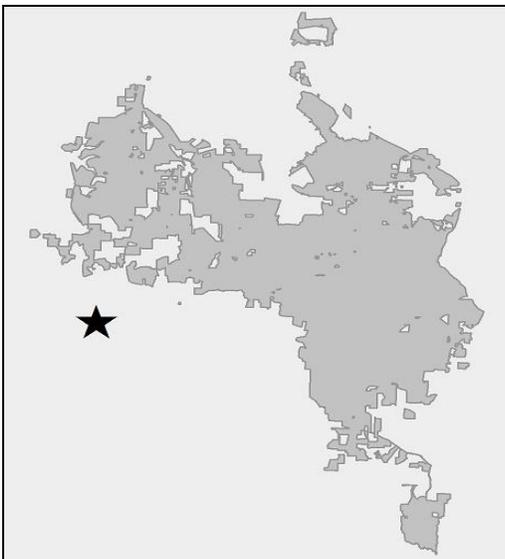
This project provides the Cary/Apex Water Treatment Facility the ability to switch between utility power and generator power without any interruption of service.

The \$250,000 FY 2019 appropriation fully funds switchgear upgrades to the four emergency power generators located at the facility. As with all Cary/Apex Water Treatment Facility projects, the Town of Apex is responsible for 23% of the project cost while the Town of Cary addresses the remaining 77%.

PROJECT JUSTIFICATION:

Without these generator switchgear upgrades, the facility does not have the ability to proactively go to emergency generator power during storm events. Abrupt power losses can damage electrical equipment due to power surges and create water hammer issues in the finished water transmission mains which can damage valves and pipes.

PROJECT LOCATION:



D. WATER

PROJECT TITLE: Cary/Apex Water Treatment Facility – Phase III Expansion

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$875,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

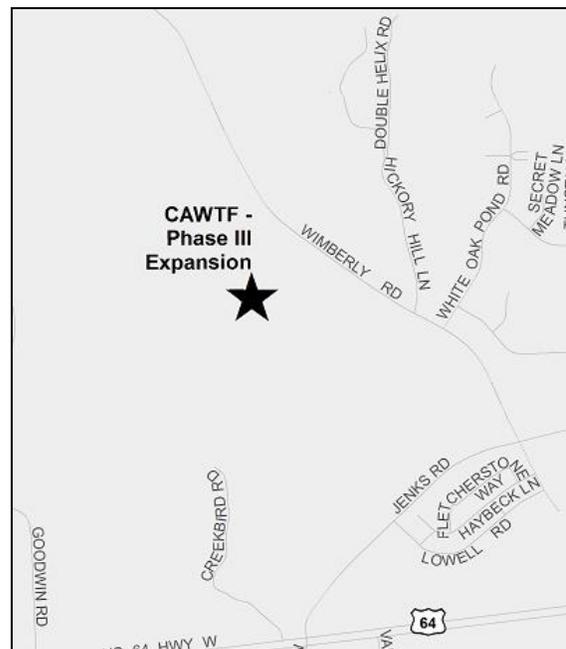
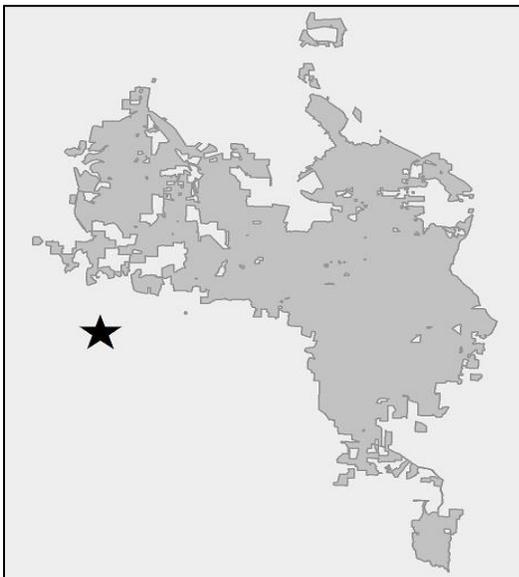
This project provides for the engineering evaluation, analysis, design and construction for the expansion of the Cary/Apex Water Treatment Facility from 40 to 56 million gallons/day (MGD). This project includes two super-pulsators, four filters, raw water ozone, raw and finished water pumps, chemical system improvements, yard piping improvements, laboratory expansion and auxiliary power upgrades.

Total project cost is estimated at \$78,375,000 of which \$77,500,000 has already been appropriated. The \$875,000 FY 2019 appropriation provides remaining funding necessary for project completion. As with all Cary/Apex Water Treatment Facility projects, the Town of Apex is responsible for 23% of the project cost while the Town of Cary addresses the remaining 77%.

PROJECT JUSTIFICATION:

This expansion is necessary to ensure that the Cary/Apex Water Treatment Facility will have the capacity to meet future Town of Cary and Town of Apex water demand.

PROJECT LOCATION:



E. WATER

PROJECT TITLE: Cary/Apex Water Treatment Facility–Process Basin Rehabilitation/Restoration

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$1,000,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

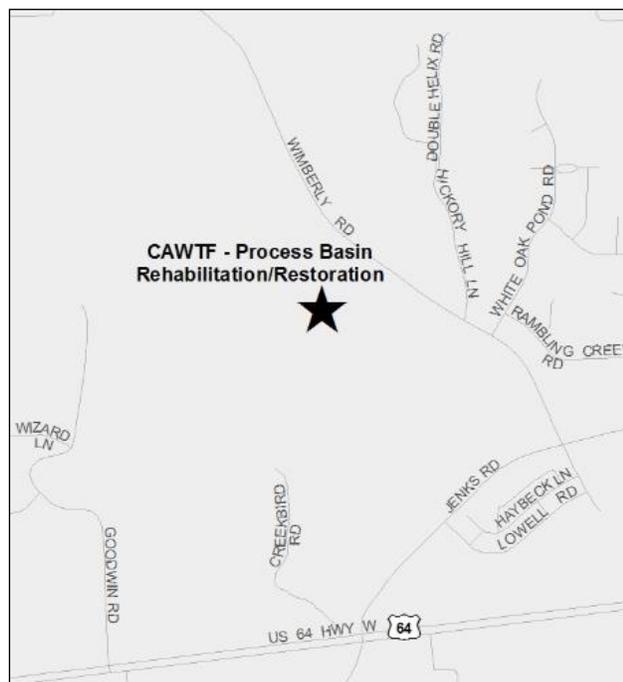
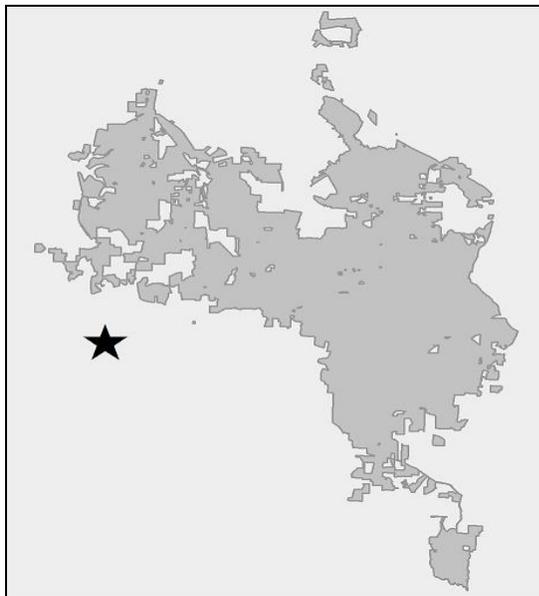
PROJECT DESCRIPTION:

This project provides funding for the phased restoration of the plant's original and Phase I expansion process basins and equipment which date to 1993 and 2001, respectively. Total project cost is estimated at \$7,000,000. Appropriations to date of \$4,000,000 support design and initial construction funding. The \$1,000,000 FY 2019 appropriation continues phased construction, while an additional \$2,000,000 identified in FY 2020 would provide for project completion. As with all Cary/Apex Water Treatment Facility projects, the Town of Apex is responsible for 23% of the project cost while the Town of Cary addresses the remaining 77%.

PROJECT JUSTIFICATION:

The Cary/Apex Water Treatment Facility utilizes concrete process basins with electrical and mechanical ancillary equipment for core treatment sedimentation and filtration processes. Routine wear and tear on the process basin infrastructure results in the need for periodic restoration and rehabilitation.

PROJECT LOCATION:



F. WATER

PROJECT TITLE: Cary/Apex Water Treatment Facility – Conversion to Ozone/Biofiltration

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$4,000,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

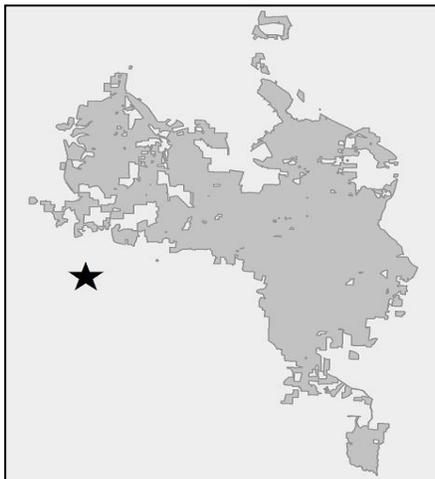
PROJECT DESCRIPTION:

This project provides for the conversion of the water treatment process at the Cary/Apex Water Treatment Facility (C/A WTF) to an ozone/biofiltration process that utilizes biologically active filters in combination with the plant's ozone system for advanced treatment of the Town's drinking water. This project provides significant process enhancements and capabilities needed to address source water quality challenges and meet future anticipated drinking water regulations. Total project cost is estimated at \$4,500,000. The \$500,000 FY 2018 appropriation funded design while the \$4,000,000 FY 2019 appropriation addresses construction and project completion. As with all Cary/Apex Water Treatment Facility projects, the Town of Apex is responsible for 23% of the project cost while the Town of Cary addresses the remaining 77%.

PROJECT JUSTIFICATION:

Biofiltration has been proven to provide improved removal of certain inorganics, organics and trace organics in the drinking water treatment process. Ozone/biofiltration is also known for improving finished drinking water stability by providing better removal of taste and odor from source waters, reducing microbiological re-growth potential in the distribution system, reducing corrosion potential, reducing disinfection by-product precursor levels and providing improved chlorine and chloramine residual maintenance in the distribution system. Biofiltration will be incorporated by converting the facility's conventional dual media filters comprised of sand and anthracite to biologically active dual media filters using sand and granular activated carbon.

PROJECT LOCATION:



G. WATER

PROJECT TITLE: Cary/Apex Water Treatment Facility – Security Upgrades

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$250,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

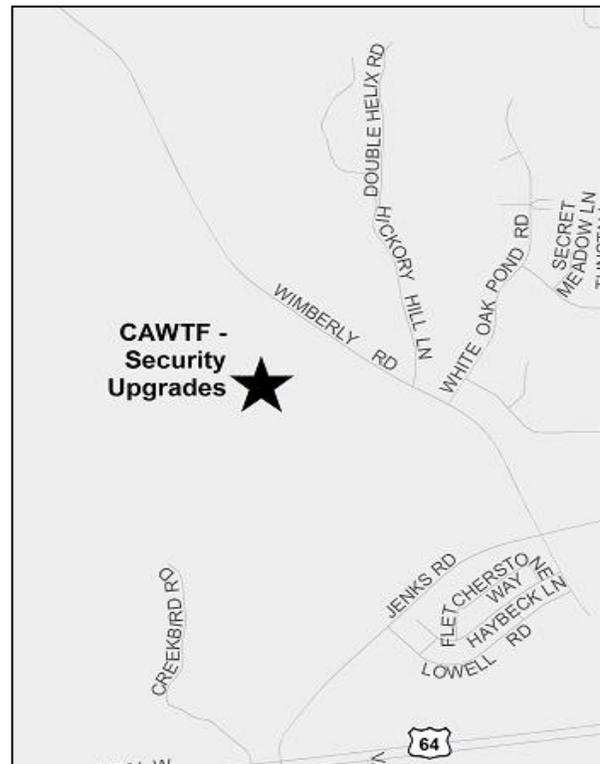
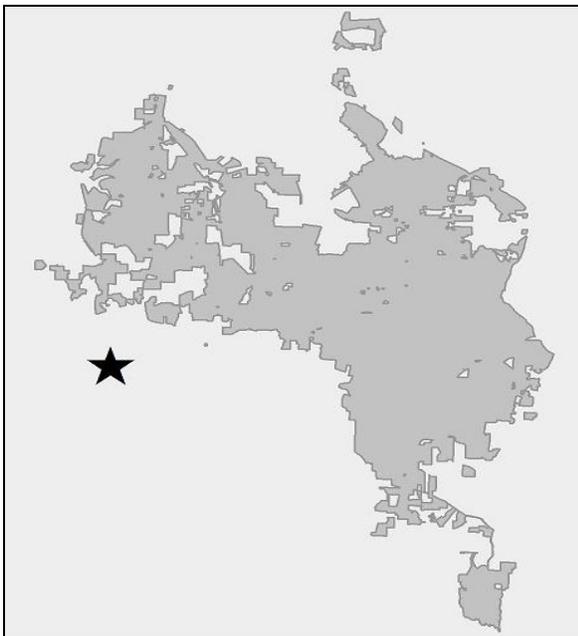
PROJECT DESCRIPTION:

This project provides for the installation of security upgrades at the Cary/Apex Water Treatment Facility. The \$250,000 FY 2019 appropriation fully funds this project. As with all Cary/Apex Water Treatment Facility projects, the Town of Apex is responsible for 23% of the project cost while the Town of Cary addresses the remaining 77%.

PROJECT JUSTIFICATION:

The federal Bioterrorism Act of 2002 requires that critical infrastructure facilities, such as water treatment facilities, complete a vulnerability assessment that should be updated periodically. An initial assessment was completed in 2003 and was updated in 2017. This project implements recommendations from these reports. Physical site security upgrades include the design and construction of a key card system for facility gate and building access control.

PROJECT LOCATION:



H. WATER

PROJECT TITLE: Extend and Relocate Water Mains and Install Valves

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$801,310

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides funding for the construction of water mains where gaps exist between the existing water system and new development. Funds will also be used to conduct line relocations in conflict with a project undertaken by another agency such as the North Carolina Department of Transportation (NCDOT).

The FY 2019 budget includes \$801,310 for work of this nature.

PROJECT JUSTIFICATION:

This project enhances the efficient operation of the water system and provides system redundancy to minimize the need to discontinue water supply to areas during waterline maintenance.

PROJECT LOCATION:

This project will occur in various locations within the Town's water line distribution system as identified by Utilities and Water Resources staff.

I. WATER

PROJECT TITLE: Heavy Equipment Replacement - Water

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$200,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project supports a "pay-as-you-go" funding strategy that annually sets aside funding necessary for the replacement of heavy equipment. Replacements are identified according to factors such as schedule, useful life expectancy, repair history and condition review.

PROJECT JUSTIFICATION:

The Town's Fleet Management staff evaluates existing heavy equipment annually and recommends replacement for equipment that has met its life expectancy based on years, hours, maintenance and repair. Timely replacement of equipment enhances operational efficiency and helps to ensure operator safety.

PROJECT LOCATION:

Equipment will be located where it best meets operational needs.

J. WATER

PROJECT TITLE: Holt Road to Davis Drive Water Line Connection

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$420,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

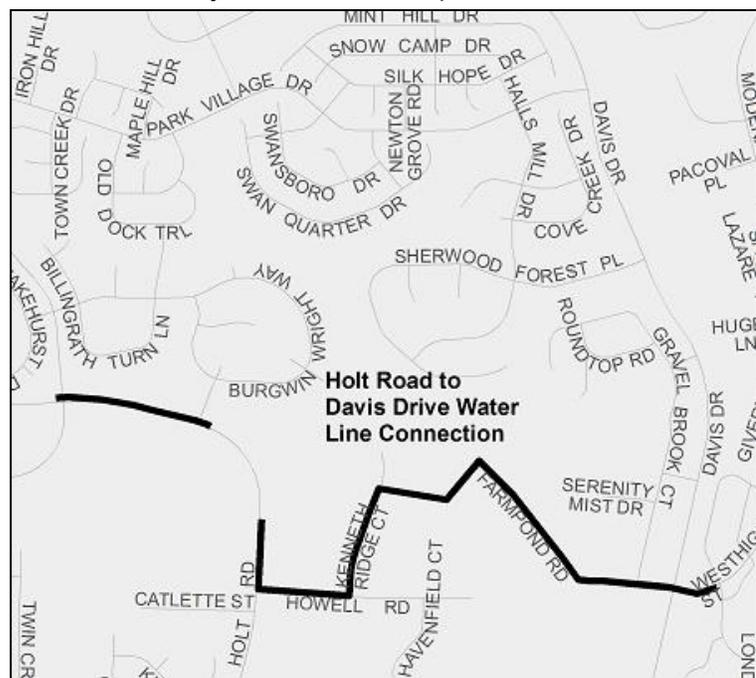
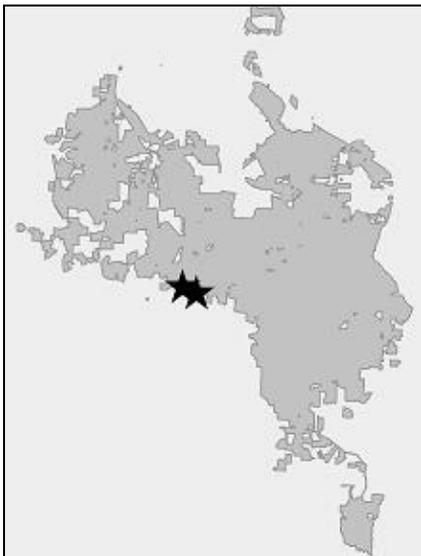
This project provides for a 5,000 linear foot, 24-inch diameter water line connection from an existing 36-inch transmission main on Holt Road to Davis Drive near the Westhigh Street connection, as well as an additional 1,000 linear feet of 24-inch diameter water line along Holt Road to extend the connection to the existing 36-inch water main along Jenks-Carpenter Road. Most of the project will be constructed near the edge of existing road right-of-way requiring numerous easement acquisitions which are increasing the project's estimated cost.

Total project cost is estimated at \$2,340,000 with \$1,920,000 appropriated through FY 2018. The \$420,000 FY 2019 appropriation provides for project completion.

PROJECT JUSTIFICATION:

This project, in combination with development and the Jenks-Carpenter/Holt Road reinforcement, will reinforce the southern side of the central pressure zone. This will help decrease the stress to existing lines and leave the system less susceptible to breaks and other emergencies.

PROJECT LOCATION:



K. WATER

PROJECT TITLE: Jenks-Carpenter/Holt Road Water Line Reinforcement

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$175,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

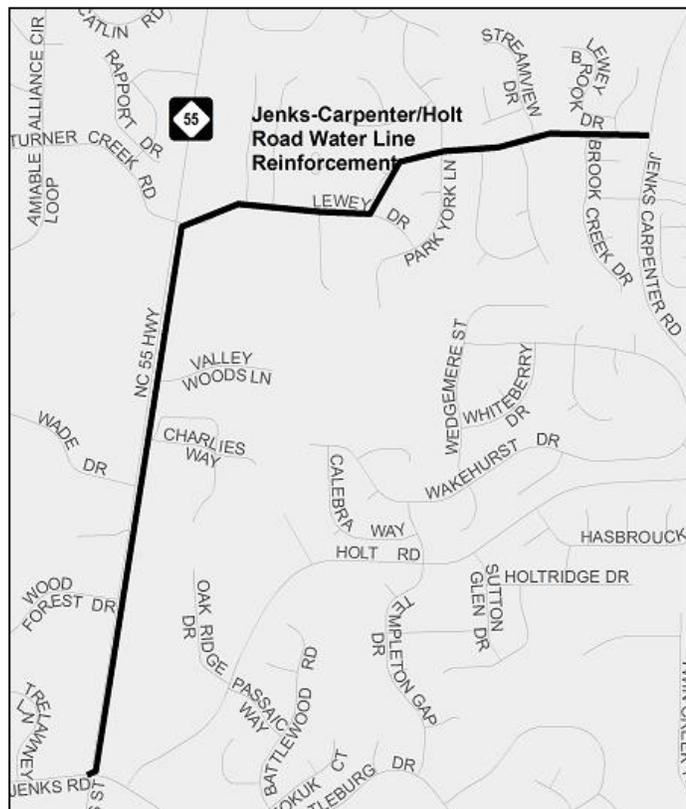
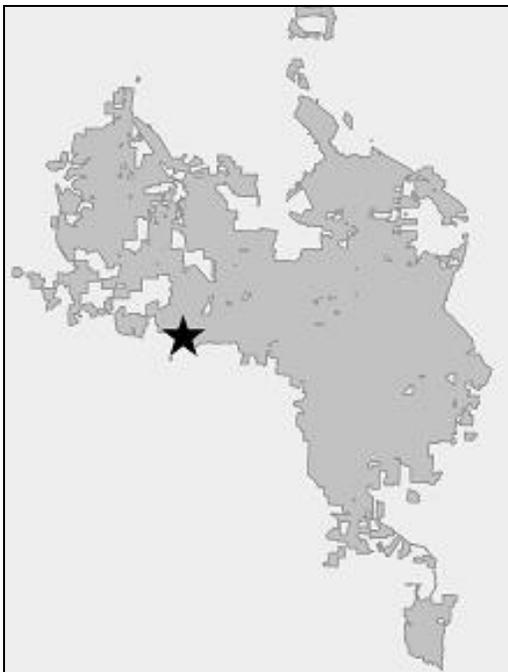
This project provides for the design and construction of 7,710 linear feet of 30-inch main parallel to the existing 36-inch main along Jenks-Carpenter Road. This pipeline was upsized from a 24-inch line to a 30-inch line per results of a study associated with the development of the western Cary water storage tank project.

Total project cost is estimated at \$4,428,000 with \$4,253,000 appropriated through FY 2018 for design and construction. The \$175,000 FY 2019 appropriation provides for project completion.

PROJECT JUSTIFICATION:

This project results in increased water supply to the southern portion of the utility system's central pressure zone.

PROJECT LOCATION:



L. WATER

PROJECT TITLE: Louis Stephens Drive Extension Water Line (U-5827)

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$1,100,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

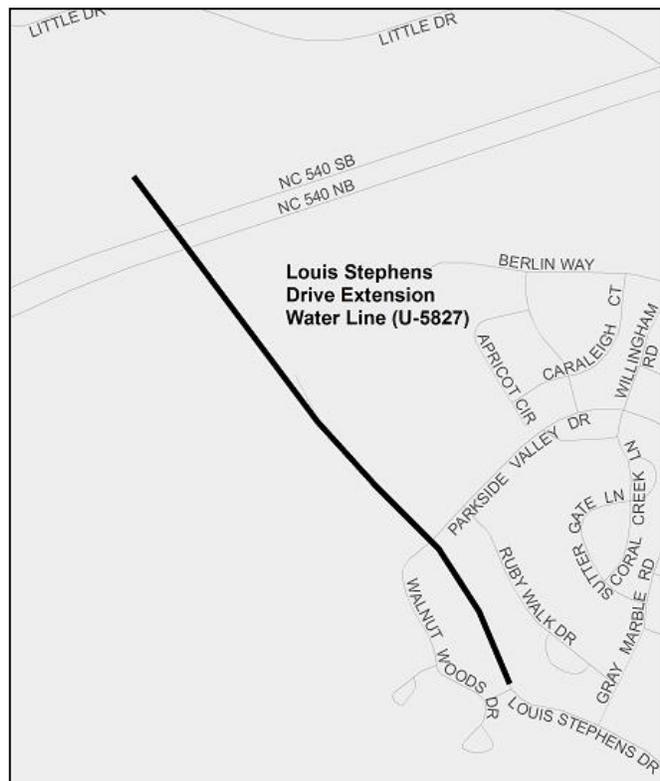
This project provides for the installation of a water line in conjunction with the construction of a new segment of Louis Stephens Drive being undertaken by NCDOT. The water line segment will consist of 3,150 linear feet of 12-inch water line running from Poplar Pike Lane to Little Drive.

Total estimated cost is \$1,100,000 which is fully appropriated in FY 2019.

PROJECT JUSTIFICATION:

Installation of this water line as part of the roadway project will reduce costs, eliminate dead end water lines and improve fire flows in the area. The line also provides redundancy to the northwest area of town. The cost of the water line installation would be greater if it were a stand-alone project and not included with the roadway. Also, the redundancy to the northwest area would not be improved.

PROJECT LOCATION:



M. WATER

PROJECT TITLE: Optimist Farm Road Water Line - West

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$578,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

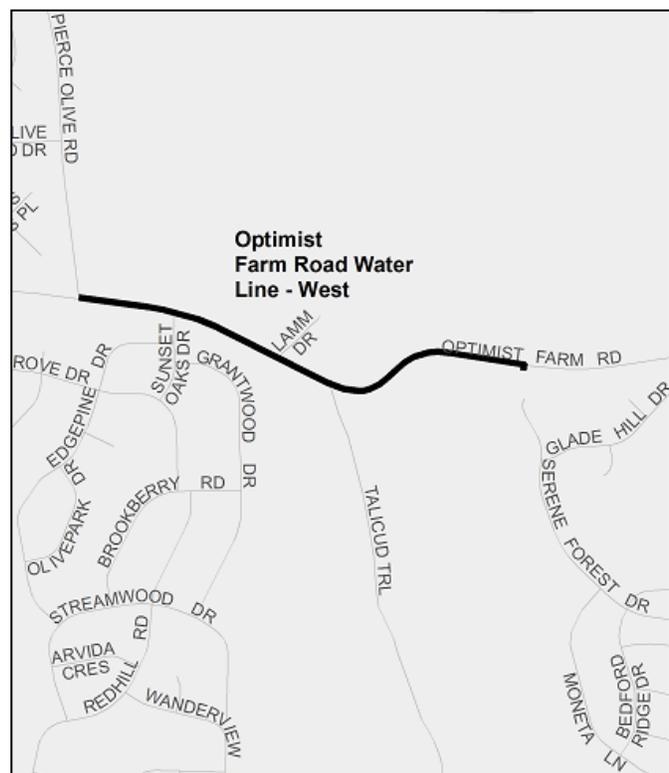
This project provides for design and construction of 4,300 linear feet of 12-inch water line along Optimist Farm Road running west of West Lake Road to Pierce Olive Road.

The \$578,000 FY 2019 appropriation fully funds this project.

PROJECT JUSTIFICATION:

Installation of this water line segment will provide additional water service capacity to meet periods of peak demand and high firefighting flow and provide line redundancy to the northwestern portion of Cary.

PROJECT LOCATION:



N. WATER

PROJECT TITLE: Roof Assessments and Rehabilitation – Water

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$50,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

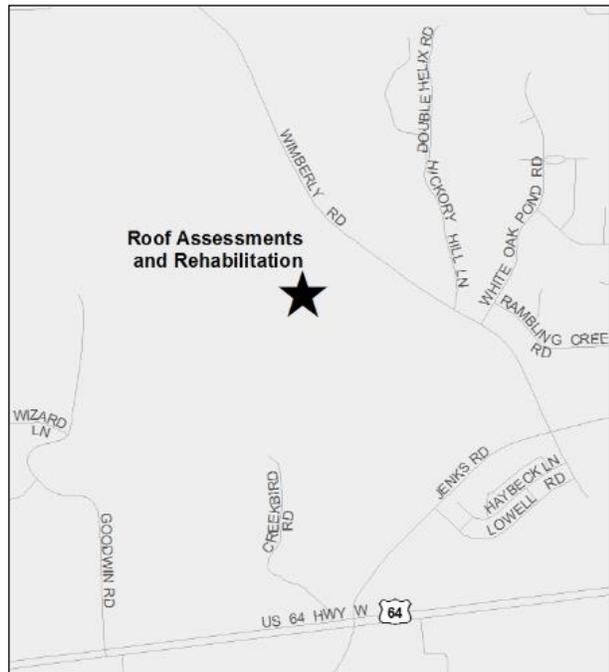
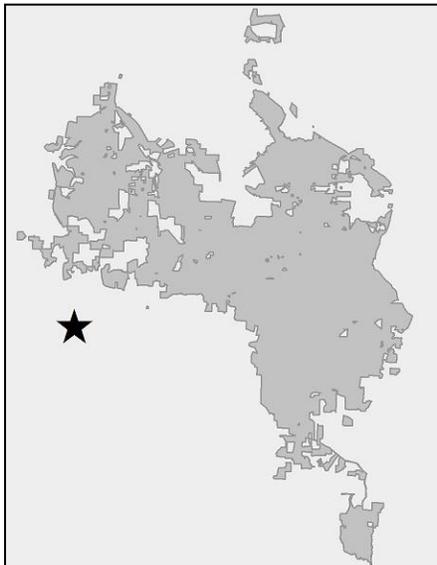
This project provides for the routine replacement and/or rehabilitation of water system facility roofs based on a comprehensive assessment conducted in 2017. Historically, roof replacement has occurred on a case by case basis as the Town’s Public Works department identifies need.

Total estimated project cost is \$1,610,000. The \$50,000 FY 2019 appropriation provides design of roof work at two water booster stations and three buildings on the Cary/Apex Water Treatment Facility site. A total of \$200,00 is programmed for construction of this work in FY 2020 with additional routine replacement/repair spread among FYs 2021 – 2029 of the capital improvements plan.

PROJECT JUSTIFICATION:

Having a comprehensive assessment allows the Town to proactively plan, identify and prioritize roof maintenance, repair, and rehabilitation rather than addressing it on an emergency basis. Prior planning also allows for the investigation of potential cost reducing approaches and helps ensure adequate funds are available to cover repair needs.

PROJECT LOCATION:



O. WATER

PROJECT TITLE: Stephenson Road Water Line and Ten Ten Road Water Line West

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$125,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

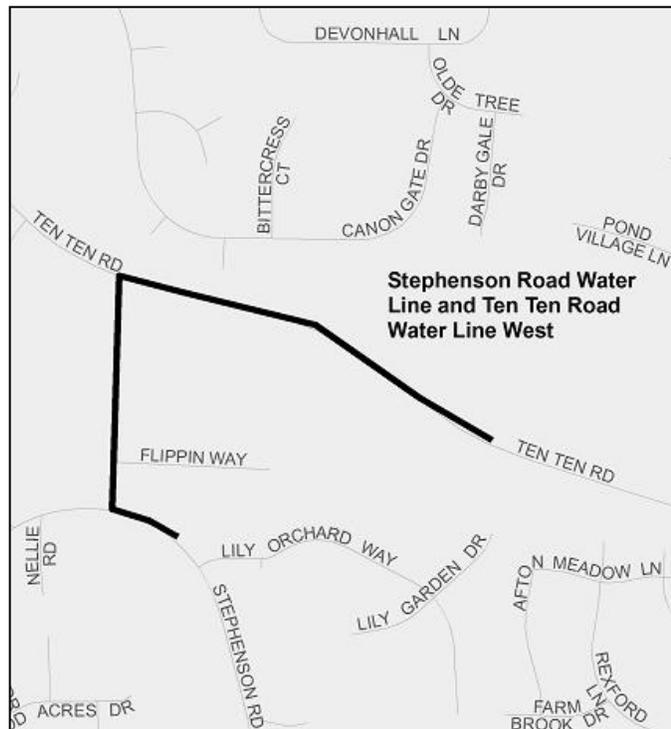
This project provides for the construction of 2,000 linear feet of 16-inch water main along Ten Ten Road from Smith Road to the Mill Pond Village shopping center; 140 linear feet of 12-inch water main along Bucknell Drive to Ten Ten Road; and 3,400 linear feet of 12-inch water main along Stephenson Road from Ten Ten Road to the Windermere subdivision.

The total estimated cost is \$700,000. The \$125,000 FY 2019 appropriation supports easement acquisition and design. An additional \$575,000 funding identified in FY 2020 would fund construction.

PROJECT JUSTIFICATION:

This project is growth-related increasing the Town's utility service area and providing a secondary feed and loop to the area. It will also provide line redundancy in the event of a line break or instance of high fire-fighting demand.

PROJECT LOCATION:



P. WATER

PROJECT TITLE: Upgrade Water Lines

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$5,000,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides funding for upgrades to existing small diameter or otherwise deficient lines within the Town's water line system. Utilities and Water Resources staff jointly identify acute needs through field research study. Once these needs are addressed, this annual project will migrate to a program of proactive system management that systematically replaces and upgrades aging infrastructure before acute needs are able to fully develop.

PROJECT JUSTIFICATION:

This project will improve service by replacing older and small-sized lines which tend to require more frequent maintenance. Hydraulic capacity and efficiency will also increase within the upgraded portions of the water distribution system.

PROJECT LOCATION:

This project will occur in various locations within the Town's water line system.

Q. WATER

PROJECT TITLE: Water Line Oversizings and Related Infrastructure Acceptance Requirements

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$168,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides funding for reimbursements to developers for the cost of water lines installed to serve needs beyond those of their individual projects. Funds are also utilized to perform consultant conducted inspections of developer-built infrastructure prior to Town acceptance.

Current Town policy allows developers to be reimbursed for the cost difference between installing infrastructure that serves only their needs and installing infrastructure that meets the Town's need to serve areas outside of the development. Reimbursements to developers are made upon completion and acceptance of the oversized lines.

PROJECT JUSTIFICATION:

This project is growth-related and will increase the Town's utility service area. By installing infrastructure that meets the Town's need to serve areas outside of the development, this project ensures the system will have enough capacity to meet future demand.

PROJECT LOCATION:

This project will occur at various locations as development occurs.

R. WATER

PROJECT TITLE: Water Main Condition Assessment

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$50,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

The Town of Cary operates and maintains over 960 miles of water mains of various sizes and types. This project funds systematic testing and evaluation of the Town's water mains.

A general condition assessment of these water mains with respect to their geographic location age, soil type and evaluation of their remaining service life will enable staff to plan for the systematic replacement/rehabilitation of water lines and utilize rehabilitation technologies prior to structure failure.

PROJECT JUSTIFICATION:

Historically, water main replacement or renewal has been based almost exclusively upon repair history alone. Unlike sewer mains, the condition of the Town's water lines cannot be readily observed by staff without begin taken out of service. New and emerging technologies in pipeline evaluation, condition assessment and water line renewal can provide staff a means of being more proactive in managing the Town's water system infrastructure.

PROJECT LOCATION:

This project will occur at various locations within the Town's utility system.

S. WATER

PROJECT TITLE: Water System – Critical Water Line Locating and Testing

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$175,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for locating, identifying and testing key water pipeline infrastructure critical to overall water system operations. This project is recurring in nature with a \$175,000 funding need identified in each year of the FYs 2019 – 2029 CIB/P. This level of funding provides for location of 8 to 12 miles of line coverage per year.

The primary focus of this project is to locate water transmission lines 12-inches and larger, specific smaller diameter lines may also be included. Areas determined by Town staff as being in the greatest need of utility locating improvements and/or with water lines at greatest risk of failure would be located first.

PROJECT JUSTIFICATION:

This project is critical to ensuring the viability of key water pipeline infrastructure.

PROJECT LOCATION:

This project will occur at various locations within the Town's water line system.

FISCAL YEAR 2019 UTILITY CAPITAL IMPROVEMENTS

Sewer Capital Improvements Fund

If utilizing this document in PDF, click on any item below to link to that information.

A.	\$500,000	Cleaning and Video Survey of Sewer Interceptors
B.	147,746	Extend Reclaimed Water Mains
C.	100,000	Force Main Easement Clearing Project - Survey and Clear
D.	600,000	Green Level Sewer Interceptor Odor Control Improvements
E.	700,000	Heavy Duty Equipment Replacement - Sewer
F.	100,000	I-40 Pump Station Improvements
G.	200,000	Infrastructure GIS Asset Data - Wastewater
H.	800,000	KCPS and MBRPS Force Main Parallel Along Green Level Church Road
I.	914,000	Morrisville Carpenter Road Reclaimed Water Line
J.	30,000	NCWRF - HVAC Replacements
K.	5,600,000	NCWRF - Partial and Full Diffused Air System
L.	125,000	Pump Station Variable Frequency Drive Replacements
M.	175,849	Reclaimed Water Line Oversizings
N.	75,000	Roof Assessments and Rehabilitation - Sewer
O.	200,000	Sewer Oversizings and Related Infrastructure Acceptance Requirements
P.	500,000	SCADA at the Tier II Wastewater Pump Stations
Q.	80,000	SCWRF - Aeration Basin Recycle Pump Replacements
R.	100,000	SCWRF - Clarifier Equipment Repair and Replacement
S.	50,000	SCWRF - Generator Auto Transfer Switch Replacement
T.	125,000	SCWRF - Plant Drain Pump Station Improvements
U.	250,000	SCWRF - Polishing Pond Liner Replacement
V.	200,000	SCWRF - Variable Frequency Drive Replacement
W.	250,000	Sewer Flow Management Modeling Scenarios
X.	500,000	Sewer System Repair/Rehabilitation
Y.	750,000	Wastewater Pump Station Improvements
Z.	2,900,000	Wastewater Pump Station Parallel Force Mains
AA.	75,000	West Cary Pump Station Trash Dumpster Enclosure
AB.	75,000	WWRF - Beaver Creek Pump Station Bar Screen and Trash Dumpster Enclosure
AC.	11,000,000	Winding Pine Regional Pump Station, Gravity Sewer and Force Main
	\$27,122,595	Total

In the following individual project description pages, the estimated personnel, operating and maintenance impacts are provided to show a more comprehensive view of each project. Some projects will be completed mid-year; the impact shown is for the first full year after the project is complete. Any impact that begins after FY 2019 has been adjusted for inflation in the outer years.

Inflation is conservatively factored in at 5% per year. Some projects do not show annual impacts although there may be minor maintenance investments at various intervals after project completion.

A. SEWER

PROJECT TITLE: Cleaning and Video Survey of Sewer Interceptors

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$500,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This is a recurring initiative to provide regular maintenance and video inspection of sewer lines 15-inches and larger in diameter. Cleaning and inspection of sewer lines is part of the ongoing maintenance program for the Town's wastewater collection system. This work is routinely performed by the Town's wastewater collection crews on sewer lines 12-inches and smaller in size but would require a significant expansion in staffing and equipment for larger sewers. This project provides for this work to be performed on a contract basis with firms having the equipment and expertise to perform this work effectively.

PROJECT JUSTIFICATION:

This project is critical to ensuring the viability of key sewer line infrastructure. Cleaning sewer lines removes debris and sediment that restricts flow and could ultimately result in sanitary sewer overflows. Video inspection provides important information regarding the condition of sewer lines.

PROJECT LOCATION:

This project will occur at various locations within the Town's utility system.

B. SEWER

PROJECT TITLE: Extend Reclaimed Water Mains

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$147,746

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project funds the construction of reclaimed water mains in areas where links to the existing reclaimed water network are missing. The FY 2019 appropriation for this initiative totals \$147,746. Eventually, as the reclaimed water system network becomes more developed, the funding need for this program will decrease.

Eliminating gaps between developer-installed lines and the existing system expedites the Town's ability to feed reclaimed water lines with reclaimed water to the maximum extent possible. In cases where gaps exist between existing lines and new, developer-installed lines, the new lines are temporarily fed with potable water until they can be tied into the system.

PROJECT JUSTIFICATION:

Extending reclaimed water mains will allow for increased utilization of the Town's reclaimed water system which will decrease demand for treated water for seasonal irrigation use.

PROJECT LOCATION:

This project will occur at various locations within the Town's utility system.

C. SEWER

PROJECT TITLE: Force Main Easement Clearing Project – Survey and Clear

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$100,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project facilitates clearing of wooded terrain in locations where the Town’s force main piping is not located along easily accessed road easements. While the majority of pump station force main piping is located along easily accessible road easements, there are instances where pipelines are located in what has become dense vegetation. Pump station force main pumping lines require periodic easement surveying, line location, and vegetation clearing.

Total project cost is estimated at \$400,000 with \$200,000 having been appropriated through FY 2018. The \$100,000 FY 2019 appropriation continues clearing work, while another \$100,000 is programmed in FY 2021.

PROJECT JUSTIFICATION:

This project is critical to ensuring the viability of key sewer line infrastructure. This project creates a means for immediate easement access for force mains currently located among dense vegetation and allows staff to update location markings for each of these facilities.

PROJECT LOCATION:

This project will occur at various locations within the Town’s utility system.

D. SEWER

PROJECT TITLE: Green Level Sewer Interceptor Odor Control Improvements

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$600,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

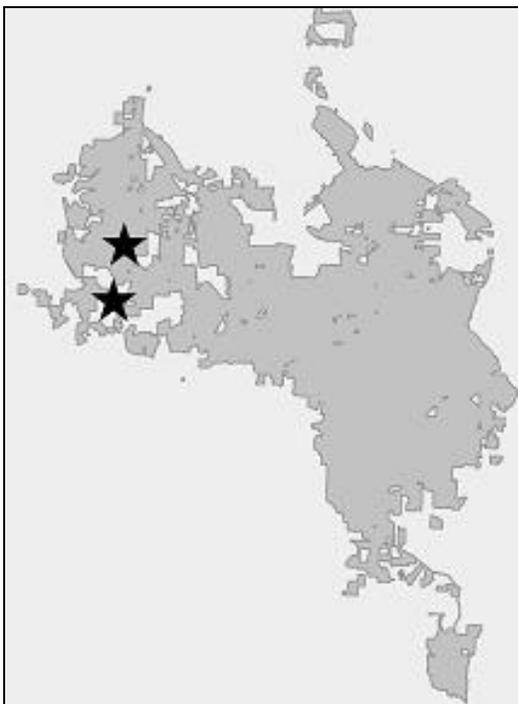
This project provides for the construction of additional odor control treatment technologies for two in-ground odor control biofilters in the western sewer service area. The two biofilters were designed and installed with the Green Level interceptor to remove anticipated sewer odors associated with two wastewater pump stations that discharge to the Green Level interceptor.

The \$600,000 FY 2019 appropriation fully funds this project.

PROJECT JUSTIFICATION:

Construction of additional odor treatment will provide adequate control measures to mitigate odor in this area.

PROJECT LOCATION:



E. SEWER

PROJECT TITLE: Heavy-Duty Equipment Replacement - Sewer

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$700,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project supports a "pay-as-you-go" funding strategy that annually sets aside funding necessary for the replacement of heavy equipment. Replacements are identified according to factors such as schedule, useful life expectancy, repair history and condition review.

PROJECT JUSTIFICATION:

The Town's Fleet Management staff evaluates existing heavy equipment annually and recommends replacement for equipment that has met its life expectancy based on years, hours, maintenance and repair. Timely replacement of equipment enhances operational efficiency and helps to ensure operator safety.

PROJECT LOCATION:

Equipment will be located where it best meets operational needs.

F. SEWER

PROJECT TITLE: I-40 Pump Station Improvements

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$100,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

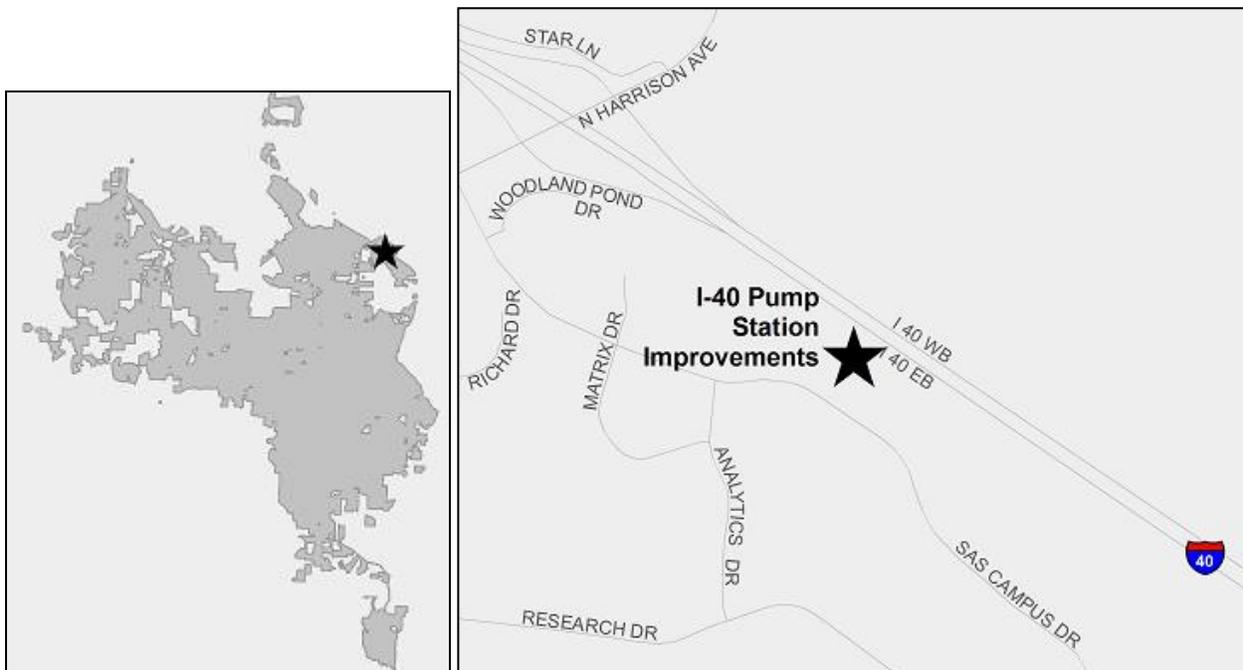
This project provides for equipment upgrades at the I-40 wastewater pumping station. This pump station has been in continuous operation for approximately 28 years. Most of its equipment is original to the pump station except for the implementation of small projects over the years making minor improvements.

Total project cost is estimated at \$300,000. A total of \$200,000 has been appropriated through FY 2018 for initial installation. The \$100,000 FY 2019 appropriation provides for project completion.

PROJECT JUSTIFICATION:

These upgrades will bring this station's operations up to date with new equipment and controls which in turn, will reduce the potential for future mechanical and electrical failures.

PROJECT LOCATION:



G. SEWER

PROJECT TITLE: Infrastructure GIS Asset Data - Wastewater

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$200,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the refinement of buried sewer infrastructure GIS asset information once it is migrated from MapInfo to ArcGIS. The \$200,000 FY 2019 appropriation fully funds the purchase and implementation of this software.

In order to facilitate implementation of an analytical asset management approach, additional effort is necessary to enhance the quality of key information fields, such as age, material and diameter for pipes and appurtenances. This software product will enhance data-driven prioritization processes to maximize asset life, maintain a high level of service, and minimize customer risk.

PROJECT JUSTIFICATION:

A robust asset registry and software product that prioritizes time and resources supports accurate and cost-effective decision making based on sound underlying data.

PROJECT LOCATION:

This project is not associated with a specific location.

H. SEWER

PROJECT TITLE: Kit Creek Pump Station (KCPS) and Morris Branch Regional Pump Station (MBRPS) Force Main Parallel Along Green Level Church Road

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$800,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

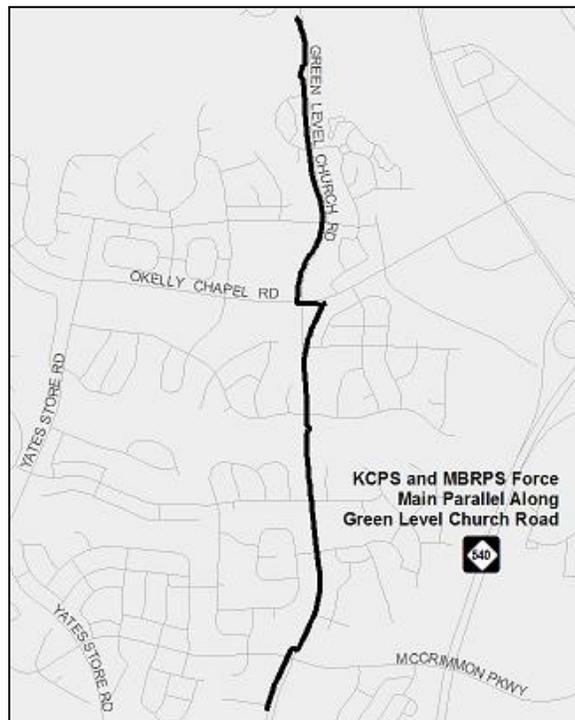
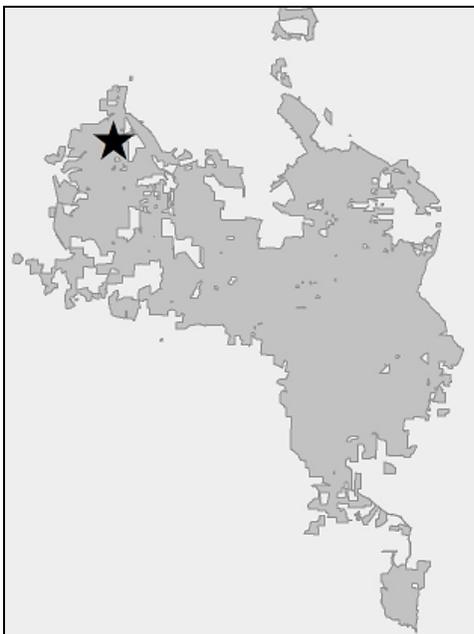
This project provides for the design and construction of a 24-inch force main running parallel to an existing 24-inch force main located along Green Level Church Road between Miller Crest Lane and Cary Glen Boulevard.

Total project cost is estimated at \$2,800,000 with \$2,000,000 appropriated through FY 2018. The \$800,000 FY 2019 appropriation provides remaining construction funding for project completion.

PROJECT JUSTIFICATION:

This parallel force main is tied to the Kit Creek (KCPS) and Morris Branch regional (MBRPS) pump stations and is required to transfer additional sewer flow anticipated in this developing area.

PROJECT LOCATION:



I. SEWER

PROJECT TITLE: Morrisville Carpenter Road Reclaimed Water Line

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$914,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the design and construction of 7,200 linear feet of 12-inch reclaimed water line along Morrisville Carpenter Road from Chapel Hill Road to Davis Drive in coordination with a Town of Morrisville roadway project. This line is recommended as part of the proposed North-West Reclaimed Water System.

Total project cost is estimated at \$914,000 and is fully appropriated in FY 2019.

PROJECT JUSTIFICATION:

The Town of Morrisville roadway project provides an opportunity to construct the reclaimed water line within the roadway right of way and take advantage of already planned construction activities such as erosion control and traffic control that will minimize project costs and impacts to the traveling public.

PROJECT LOCATION:



J. SEWER

PROJECT TITLE: North Cary Water Reclamation Facility – HVAC Replacements

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$30,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

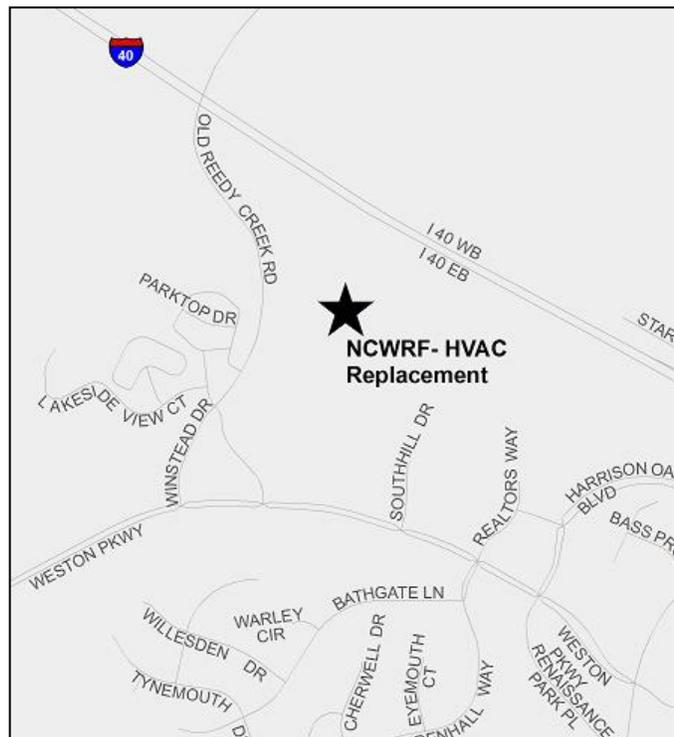
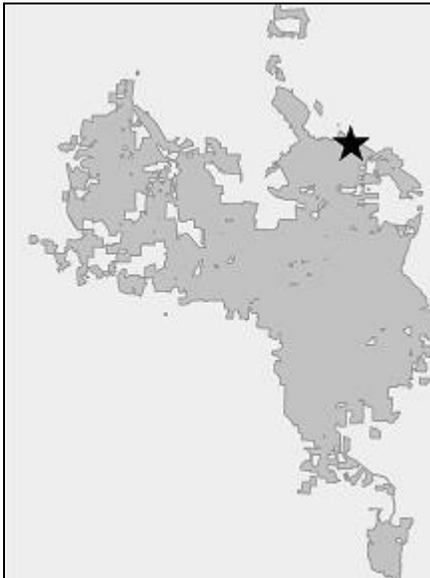
This project provides for the replacement of an air conditioning unit at the C train electrical building (Building N) at the North Cary Water Reclamation Facility. The HVAC unit at this location is integral to processes occurring there as the electronic equipment housed inside the building must remain cool. Drives and other electronic equipment will shut down when building temperatures reach ambient or above in the summer. The HVAC unit in Building N will be 15 years old in 2019.

The \$30,000 FY 2019 appropriation fully funds the purchase of a conventional HVAC unit for this facility.

PROJECT JUSTIFICATION:

The HVAC units at this location are vital to ensuring electronic equipment remain cool and operational at all times.

PROJECT LOCATION:



K. SEWER

PROJECT TITLE: North Cary Water Reclamation Facility – Partial and Full Diffused Air System

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$5,600,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

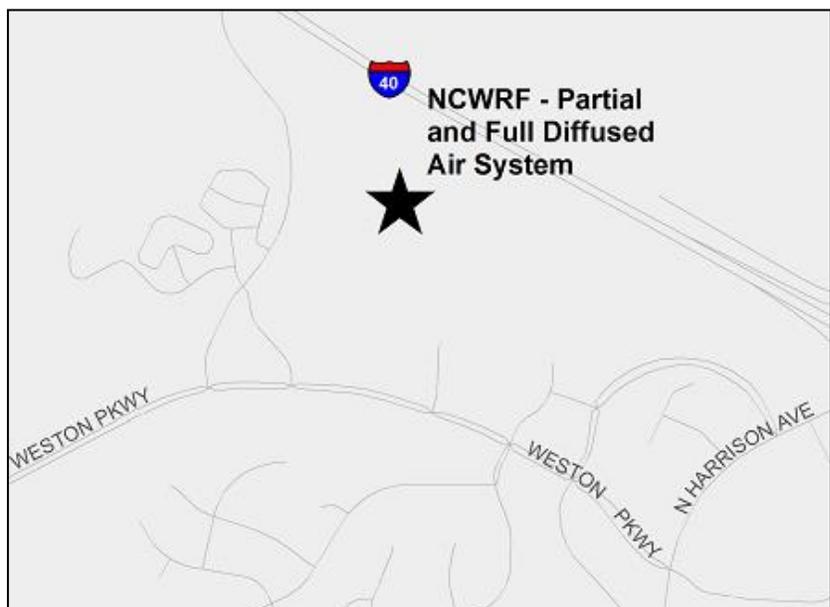
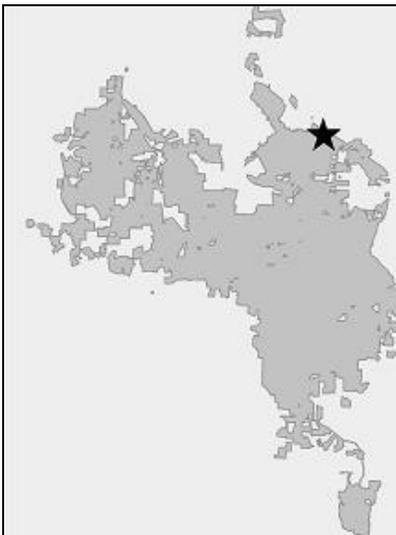
This project supports upgrades to the North Cary Water Reclamation Facility's aeration processes that will help the facility maintain water quality standards while treating the increased flow expected to occur within the next 3 to 5 years. Additional aeration at the NCWRF will allow the plant to process another one million gallons per day (MGD) within the existing facility's two train system. This addition will also maintain the viability of a two-train operation for at least another 5-7 years.

Total project cost is estimated at \$12,820,000. Appropriations through FY 2018 total \$7,220,000 and address design and initial construction funding. The \$5,600,000 FY 2019 appropriation provides remaining construction funding necessary for project completion.

PROJECT JUSTIFICATION:

An external consultant reviewed capacity needs associated with the North Cary Water Reclamation Facility and determined that this project is the most efficient way of continuing the two train operation at the facility while meeting near-term capacity needs.

PROJECT LOCATION:



L. SEWER

PROJECT TITLE: Pump Station Variable Frequency Drive Replacements

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$125,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the phased replacement of variable frequency drives (VFDs) at the Town's wastewater pumping stations. Variable frequency drive motors power pumps that transport wastewater to one of the Town's water reclamation facilities for treatment. Variable pumping rates allow a pump to match incoming flow. This yields a smoother pumping operation and reduces the operation of the air release valves. The maintenance plan for this equipment replaces four (4) VFDs every three years.

Total project cost is estimated at \$625,000 with \$125,000 appropriated through FY 2018. The \$125,000 FY 2019 appropriation replaces four more VFDs with subsequent funding needs identified in FYs 2022, 2025 and 2028.

PROJECT JUSTIFICATION:

This project is essential maintenance for wastewater pumps and will help ensure their continued efficient and effective operation and ultimately prevent service interruption.

PROJECT LOCATION:

This project will occur at various locations throughout the wastewater system where the need for replacement is identified.

M. SEWER

PROJECT TITLE: Reclaimed Water Line Oversizings

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$175,849

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This annual project provides funding for reimbursements to developers for the cost of reclaimed water lines installed to serve needs beyond those of their individual projects.

Current Town of Cary policy allows developers to be reimbursed for the cost difference between installing infrastructure that serves only their needs and installing infrastructure that meets the Town's need to serve areas outside of the development. Reimbursements to developers are made upon completion and acceptance of the oversized reclaimed water lines.

PROJECT JUSTIFICATION:

This project is growth-related and will increase the Town's utility service area. By installing infrastructure that meets the Town's need to serve areas outside of the development, this project ensures the system will have enough capacity to meet future demand.

PROJECT LOCATION:

This project will occur at various locations as development occurs.

N. SEWER

PROJECT TITLE: Roof Assessments and Rehabilitation – Sewer

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$75,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the routine replacement and/or rehabilitation of sewer system facility roofs based on a comprehensive assessment conducted in 2017. Historically, roof replacement has occurred on a case by case basis as the Town’s Public Works department identifies need.

Total estimated project cost is \$1,930,000. The \$75,000 FY 2019 appropriation provides for design of roof work associated with various units at the North Cary Water Reclamation Facility, South Cary Water Reclamation Facility and throughout the utility system itself. A total of \$200,00 is programmed for construction of this work in FY 2020 with additional routine replacement/repair spread among FYs 2021 – 2029 of the capital improvements plan.

PROJECT JUSTIFICATION:

Having a comprehensive assessment allows the Town to proactively plan, identify and prioritize roof maintenance, repair, and rehabilitation rather than addressing it on an emergency basis. Prior planning also allows for the investigation of potential cost reducing approaches and helps ensure adequate funds are available to cover repair needs.

PROJECT LOCATION:

This project will occur at various sewer system facilities as identified by a needs assessment.

O. SEWER

PROJECT TITLE: Sanitary Sewer Oversizings and Related Infrastructure Acceptance Requirements

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$200,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This annual project provides funding for reimbursements to developers for the cost of sewer lines installed to serve needs beyond those of their individual projects. Funds are also utilized to perform consultant conducted inspections of developer-built infrastructure prior to Town acceptance of oversized lines.

Current Town of Cary policy allows developers to be reimbursed for the cost difference between installing infrastructure that serves only their needs and installing infrastructure that meets the Town's need to serve areas outside of the development. Reimbursements to developers are made upon completion and acceptance of the oversized reclaimed water lines.

PROJECT JUSTIFICATION:

This project is growth-related and will increase the Town's utility service area. By installing infrastructure that meets the Town's need to serve areas outside of the development, this project ensures the system will have enough capacity to meet future demand.

PROJECT LOCATION:

This project will occur at various locations as development occurs.

P. SEWER

PROJECT TITLE: SCADA at the Tier II Wastewater Pump Stations

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$500,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the installation of supervisory control and data acquisition (SCADA) software to allow remote process monitoring and control functions of pump stations. SCADA technology will monitor and report on a wide array of conditions at each of the Town's pump stations including the status of the pumps themselves, generators, odor control equipment, grinders, screens and wet well levels. Certain station parameters will also be remotely controlled. One example of this is the ability to remotely switch to a different pump should one be showing signs of failure. Basic station security is also included in the design.

Total project cost is estimated at \$500,000 and is fully appropriated in FY 2019.

PROJECT JUSTIFICATION:

Utilizing this equipment eliminates the need for staff to physically visit pump stations to gather data on the status of the pumps, generators, odor control equipment, grinders, screens and wet well levels. In addition the ability to control certain station parameters remotely will increase pump station operational effectiveness and increase staff efficiency.

PROJECT LOCATION:

This project will occur at various locations within the utility system.

Q. SEWER

PROJECT TITLE: South Cary Water Reclamation Facility – Aeration Basin Recycle Pump Replacements

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$80,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the replacement of the three recycle pumps that each serve a treatment basin at the South Cary Water Reclamation Facility (SCWRF). Each of these pumps was originally installed in 1998. This equipment runs continuously and is essential to maintaining the optimum biological nutrient removal required by the facility's National Pollutant Discharge Elimination System (NPDES) permit. All three recycle pumps have life expectancies of 5 – 10 years and have been repaired at least once each since installation.

Total project cost is estimated at \$240,000 of which \$80,000 has already been appropriated. The \$80,000 FY 2019 appropriation replaces the second pump. The additional \$80,000 funding identified in FY 2020 will complete this project.

PROJECT JUSTIFICATION:

This project is essential to maintaining the equipment that ensures optimum biological nutrient removal required by the facility's National Pollutant Discharge Elimination System (NPDES) permit.

PROJECT LOCATION:



R. SEWER

PROJECT TITLE: South Cary Water Reclamation Facility – Clarifier Equipment Repair and Replacement

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$100,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

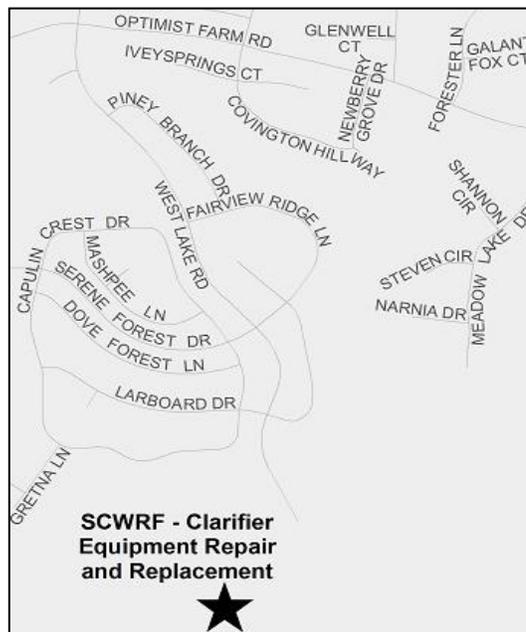
This project provides for phased repairs to the skimmers, weirs, rakes, and drive structures with assemblies on the four existing secondary clarifiers at the South Cary Water Reclamation Facility (SCWRF). Total project cost is estimated at \$1,000,000.

The \$400,000 appropriated through FY 2018 funded significant repairs to the two clarifiers that have been in operation for 25 years. The manufacturer’s recommendation for rebuild/significant repair of the clarifiers is approximately every 15 years. The \$100,000 FY 2019 appropriation supports repairs to the two 16-year-old clarifiers. The balance of projected costs is programmed in FYs 2024 (\$250,000) and 2029 (\$250,000) to provide for structural repairs, coatings and any additional mechanical repairs.

PROJECT JUSTIFICATION:

This project is essential to maintaining the equipment that ensures optimum water reclamation facility operation.

PROJECT LOCATION:



S. SEWER

PROJECT TITLE: South Cary Water Reclamation Facility – Generator Auto Transfer Switch Replacement

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$50,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

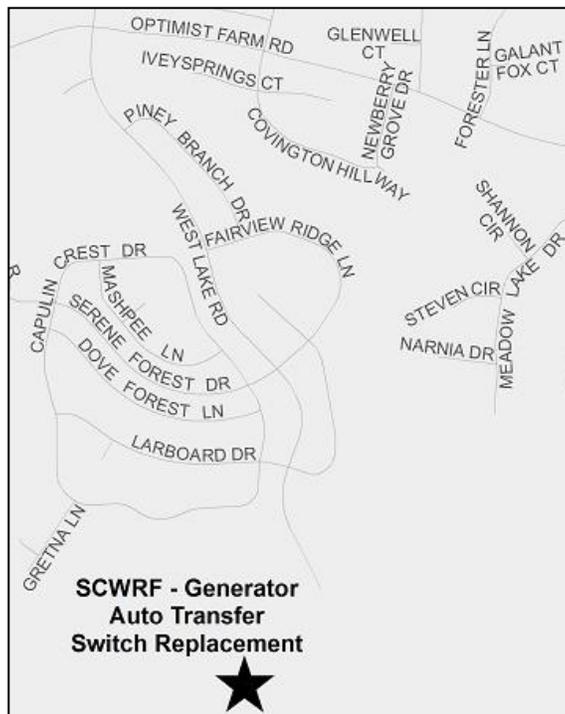
PROJECT DESCRIPTION:

This project provides for design, engineering, purchase and installation of a replacement automated transfer switch (ATS) for one of the back-up power generators at the South Cary Water Reclamation Facility (SCWRF). Back-up generators supporting the Town's wastewater treatment processes require automatic transfer switches (ATS) to turn on and off when a power failure is experienced. The existing switch being replaced has been in operation approximately 30 years.

PROJECT JUSTIFICATION:

These switches are integral to contingency operations at the SCWRF as all of the facility's treatment processes may not be supported by back-up power without properly functioning ATS switches.

PROJECT LOCATION:



T. SEWER

PROJECT TITLE: South Cary Water Reclamation Facility – Plant Drain Pump Station Improvements

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$125,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

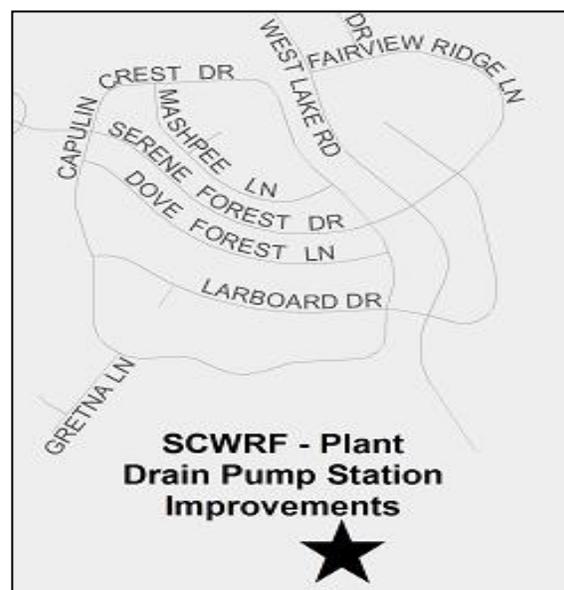
This project provides for improvements to pumps, piping, valving, and controls to increase the capacity of the drain station at the SCWRF. This facility is a 12.8 MGD water reclamation facility that uses biological nutrient removal processes to produce a high-quality treated wastewater. The SCWRF also re-treats several side streams such as the thickener filtrate, centrifuge centrate, dryer condenser, scrubber wastewater, final filter backwash and residues from empty tanks, ponds, and lagoons. Exposure to abrasive materials and harsh wastewater lead to wear and deterioration of the pumps, check assemblies, valves, piping, and retrieval equipment.

The plant drain station was purchased and installed with the original plant construction in 1988 and currently conveys side streams of up to 1.0 MGD of wastewater flow back to the head of the plant for additional treatment. As plant facilities have expanded, the plant station has experienced increased wear and deterioration. The \$125,000 FY 2019 appropriation fully funds necessary improvements.

PROJECT JUSTIFICATION:

This project is essential to countering wear and deterioration of the pumps, check assemblies, valves, piping, and retrieval equipment due to exposure to abrasive materials and harsh wastewater.

PROJECT LOCATION:



U. SEWER

PROJECT TITLE: South Cary Water Reclamation Facility – Polishing Pond Liner Replacement

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$250,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

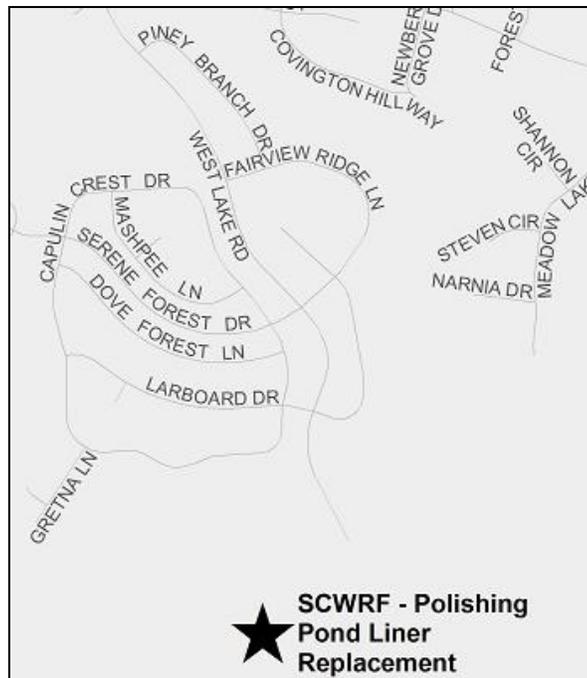
This project provides for the replacement of aging polypropylene liners in the two existing 5.5 MG polishing pond structures at SCWRF. Both polishing ponds were constructed in 1988 and were in treatment service through 1998. The ponds were taken out of service with the addition of deep bed filters during the plant expansion in 1998. The ponds have been maintained for backup to the deep bed filters as well as to provide storage of partially treated wastewater for flow equalization during high flow events. The pond liners are original and are 26 years old. Liner failures such as tears and seam splitting have been repaired annually. The life expectancy of the liner stated by the manufacturer is approximately 20 years.

The \$250,000 FY 2019 appropriation fully funds replacement of these two liners.

PROJECT JUSTIFICATION:

It is important that these liners be replaced so that these ponds may continue to be used as alternatives to the deep bed filters or for flow equalization during high flow events.

PROJECT LOCATION:



V. SEWER

PROJECT TITLE: South Cary Water Reclamation Facility – Variable Frequency Drive Replacement

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$200,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

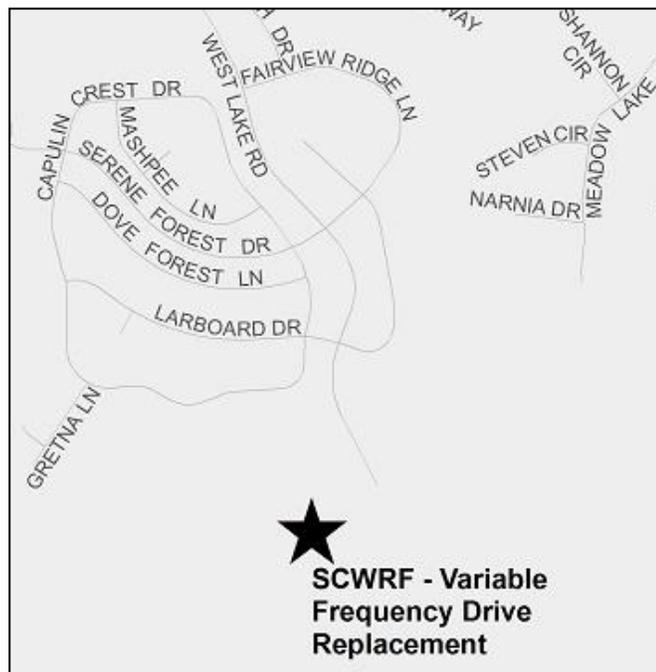
This project provides for the phased replacement of 22 variable frequency drives. Variable frequency (speed) drives are utilized to control and optimize equipment speeds, or flow rates, in multiple areas of the SCWRF.

Total project cost is estimated at \$800,000 with \$200,000 appropriated through FY 2018 for replacement of the facility’s oldest units. The \$200,000 FY 2019 appropriation continues drive replacements, while \$200,000 identified in FY 2022 would conclude this replacement cycle. Another \$200,000 noted in FY 2029 would initiate the next replacement rotation.

PROJECT JUSTIFICATION:

This equipment is an integral component in returning activated sludge to the biological treatment processes, wasting activated sludge from the biological treatment system, conducting biological process aeration and conveying wet material through the dewatering and thermal drying process.

PROJECT LOCATION:



W. SEWER

PROJECT TITLE: Sewer Flow Management Modeling Scenarios

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$250,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for additional wastewater system modeling scenarios to help evaluate alternative sewer flow management options for more efficient management of peak sewer flows. As the wastewater collection system has expanded, the Town has more options to shift sewer flows during periods when peak flows exceed the system capacity of downstream facilities.

Total project cost is estimated at \$700,000. Appropriations through FY 2018 total \$450,000 and support detailed modeling of alternate sewer flow management strategies. The \$250,000 FY 2019 appropriation represents final funding needed to conclude this work.

PROJECT JUSTIFICATION:

Sewer modeling scenarios help Town of Cary staff better determine the most efficient sewer flow management options.

PROJECT LOCATION:

This project is not associated with a specific location.

X. SEWER

PROJECT TITLE: Sewer System Repair/Rehabilitation

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$500,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for maintenance of the Town's sewer system. Maintenance includes sewer main repair/rehabilitation, inflow/infiltration elimination, manhole repair and force main discharge manhole coating. Underground camera investigations, pipe cleaning and other field observation methods are employed to determine the system's maintenance needs. Repairs funded through this capital project are larger in scope than what can be performed in-house by the Utilities department.

PROJECT JUSTIFICATION:

Sewer system rehabilitation eliminates inflow and infiltration into the system and keeps the Town's wastewater collection system operating properly by improving maintenance capability and eliminating structural deficiencies. Sewer lines and manholes in poor condition are sources of infiltration and inflow into the Town's wastewater collection system. Failure to adequately maintain and/or repair such conditions increases the likelihood of service disruption and sewer overflows.

PROJECT LOCATION:

Repair and rehabilitation activity will occur throughout the Town's wastewater collection system.

Y. SEWER

PROJECT TITLE: Wastewater Pump Station Improvements

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$750,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides design and construction funding for the systematic replacement/rehabilitation of pump station infrastructure prior to structure or component failure. The scope of work completed at each pump station will differ based upon each pump station's specific needs. Pump stations will be selected by staff based upon a recently completed operational analysis of the Town's existing pump stations.

The \$750,000 FY 2019 appropriation fully funds this replacement/rehabilitation and related improvement work.

PROJECT JUSTIFICATION:

Wastewater Pump Station infrastructure replacement and rehabilitation is essential to ensuring the continued efficient and effective operation of the system.

PROJECT LOCATION:

This project will occur at various locations throughout the Town's wastewater collection system.

Z. SEWER

PROJECT TITLE: Wastewater Pump Station Parallel Force Mains

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$2,900,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

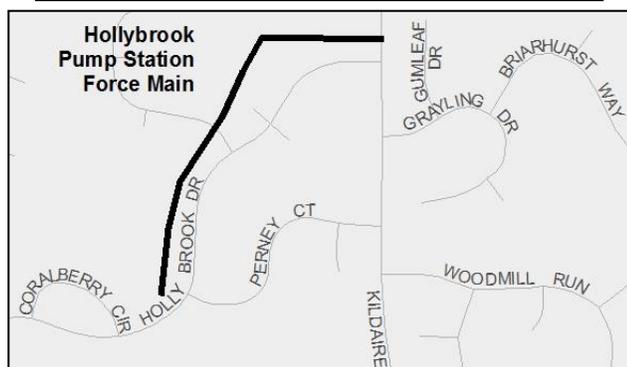
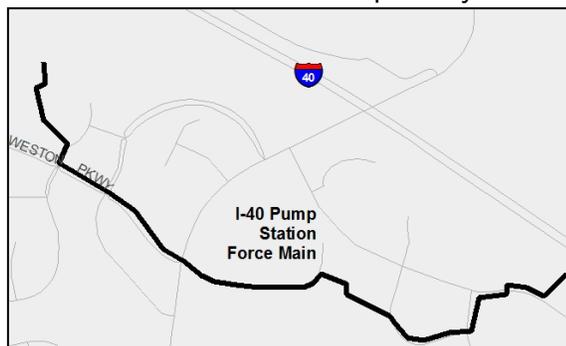
This project provides for the design and construction of new force mains running parallel to existing critical force mains. The parallel force mains constructed through this project have been identified and prioritized based on volume of flow, diameter, age, proximity to downstream water bodies and relative difficulty of quickly installing temporary bypass lines.

Total project cost is estimated at \$16,790,000. The \$2,900,000 FY 2019 appropriation funds construction of parallel force mains serving the Hollybrook and I-40 pump stations. The remaining \$13,890,000 is spread across FYs 2021 – 2027 of the CIP and would support additional parallel force mains at another six pump stations.

PROJECT JUSTIFICATION:

This project creates system redundancy by providing alternate means of conveying raw wastewater from prioritized pump stations in the event that the primary force mains fail. Parallel force mains also prevent disruption of wastewater service or the need for expensive temporary pumping during regular inspections and maintenance of the primary force mains.

PROJECT LOCATION:



AA. SEWER

PROJECT TITLE: West Cary Pump Station Trash Dumpster Enclosure

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$75,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

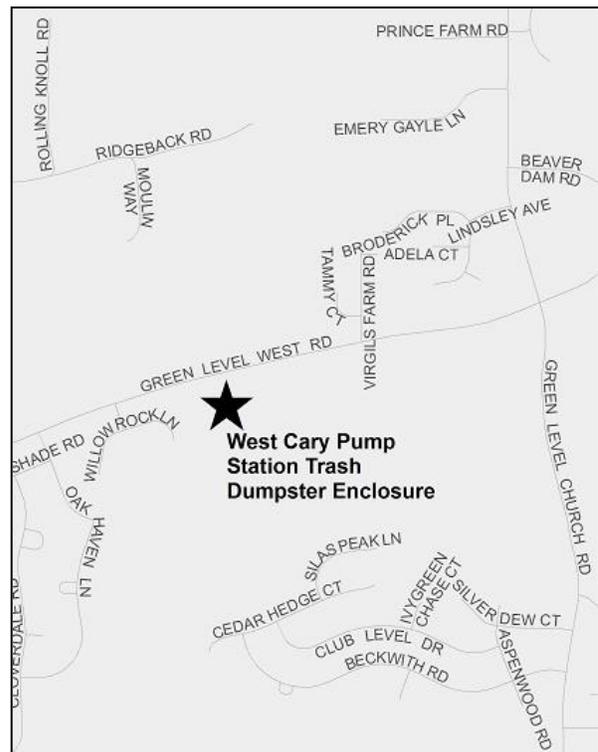
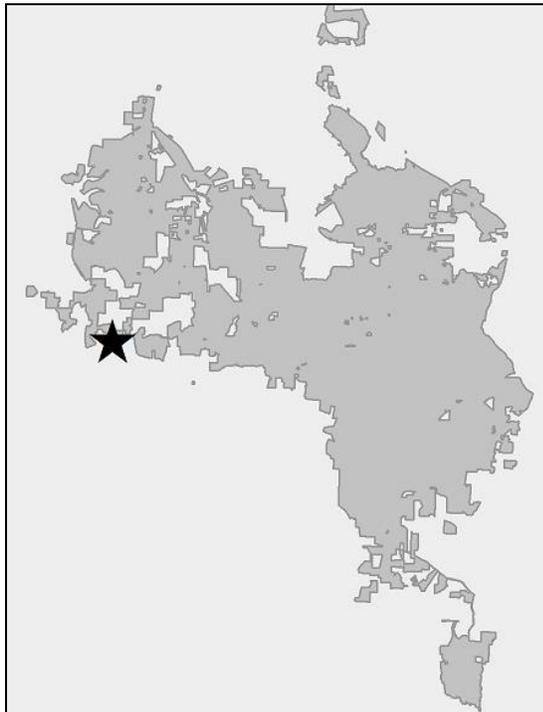
This project provides funding for the construction of an odor control enclosure surrounding the trash dumpsters at the West Cary Pump Station that receive bar screen compacted solids and debris from the sewer system. The enclosure will be ducted to the pump station's existing odor control biofilter to remove odor. Design professionals will be utilized to provide proper design for the trash dumpster enclosure.

The \$75,000 FY 2019 appropriation fully funds this project.

PROJECT JUSTIFICATION:

Without proper odor control for the trash dumpsters, odors will be present along a new greenway trail under construction nearby.

PROJECT LOCATION:



AC. SEWER

PROJECT TITLE: Winding Pine Regional Pump Station, Gravity Sewer and Force Main

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$11,000,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

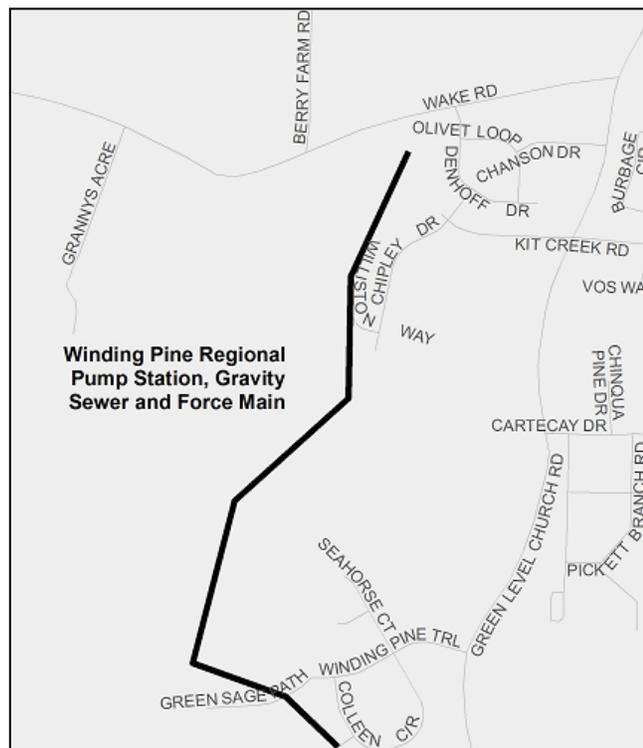
This project provides for the design, easement acquisition, permitting and construction of a 5 MGD regional pump station downstream of the existing Kit Creek pump station. The project also designs and installs 2,300 linear feet of 42-inch gravity sewer line and 2,300 linear feet of 20-inch force main to serve the pump station.

Total project cost is estimated at \$13,300,000. The \$2,300,000 appropriated through FY 2018 fund a preliminary engineering report, easement acquisition and design. The \$11,000,000 FY 2019 appropriation supports construction.

PROJECT JUSTIFICATION:

This project will provide gravity sewer service to the remainder of the utility system's northwestern service area and allow for the elimination of the Kit Creek pump station which would otherwise require extensive improvements.

PROJECT LOCATION:



FISCAL YEAR 2019 GENERAL CAPITAL IMPROVEMENTS

TRANSPORTATION CAPITAL IMPROVEMENTS FUND

If utilizing this document in PDF, click on any item below to link to that information.

A.	\$25,000	Bicycle Facilities Implementation
B.	8,743,969	Carpenter Fire Station Road/CSX Rail Grade Separation
C.	3,150,000	Carpenter Fire Station Road Widening (NC55 to East of Cameron Pond)
D.	1,016,000	GoCary Bus Stop Improvements
E.	75,000	GoCary Capital Amenities
F.	4,000,000	GoCary Downtown Multimodal Station
G.	100,000	GoCary Wayfinding Signage
H.	300,000	Lake Pine Drive Road Widening and Sidewalk Improvements
I.	6,720,000	Reedy Creek Road Widening - NE Maynard Road to N Harrison Avenue
J.	1,750,000	Sidewalk and Pedestrian Improvements
K.	2,000,000	Signal System - Upgrade Traffic Signal Controllers (Connected Vehicles)
L.	150,000	Spot Improvements (Based on Levels of Service, Safety and Citizen Concerns)
M.	7,100,000	Street Improvement Project
N.	850,000	Street Storm Drainage System Rehabilitation
O.	200,000	Thoroughfare Street Lights
	\$ 36,179,969	Total

In the following individual project description pages, the estimated personnel, operating and maintenance impacts are provided to show a more comprehensive view of each project. Some projects will be completed mid-year; the impact shown is for the first full year after the project is complete. Any impact that begins after FY 2019 has been adjusted for inflation in the outer years.

Inflation is conservatively factored in at 5% per year. Some projects do not show annual impacts although there may be minor maintenance investments at various intervals after project completion.

A. TRANSPORTATION

PROJECT TITLE: Bicycle Facilities Implementation

RESPONSIBLE DEPARTMENT: Transportation & Facilities

PROJECT FUNDING: \$25,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project supports a variety of activities related to the implementation of bicycle transportation facilities identified in the bicycle element of the Town's Comprehensive Transportation Plan. These activities include:

- The addition of bicycle lanes (including sharrow lanes)
- Bicycle lane signage improvements
- The creation of bicycle parking opportunities
- Funding to support the Town's bicycle facility request program

The \$25,000 appropriation to this project will be used to directly address initiatives such as these, or as grant matching funding in instances where the Town has been awarded bicycle facility grant funding.

PROJECT JUSTIFICATION:

The Town's bicycle facilities implementation program is focused on increasing the quality of life and health for Cary citizens by providing opportunities to use alternative transportation methods.

PROJECT LOCATION:

This project will occur in various areas as determined by staff and based on prioritization.

B. TRANSPORTATION

PROJECT TITLE: Carpenter Fire Station Road/CSX Rail Grade Separation

RESPONSIBLE DEPARTMENT: Transportation & Facilities

PROJECT FUNDING: \$8,743,969

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

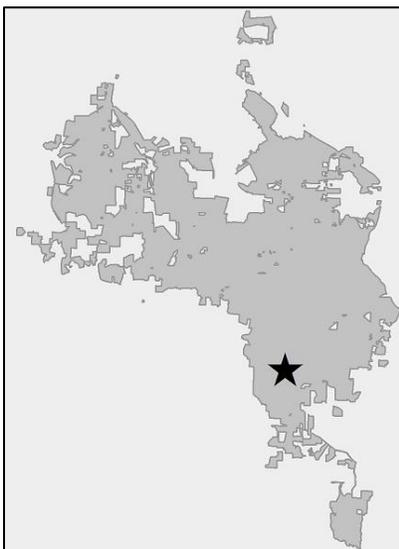
This project supports realignment of Carpenter Fire Station Road from the NC-55 highway to Morrisville-Carpenter Road just west of Louis Stephens Drive.

Total project cost is estimated at \$29,963,969. A total of \$21,220,000 has been appropriated to date for right-of-way acquisition, design and construction. The \$8,743,969 FY 2019 appropriation supports construction costs associated with an agreement between the Town of Cary and CSX Rail Road which requires that the scope of the rail road bridge increase from a single track to a double to accommodate future rail expansion.

PROJECT JUSTIFICATION:

The project incorporates a new four-lane, median divided roadway with paved shoulders for bicycles as indicated on the Town's Comprehensive Transportation Plan (CTP) and the Carpenter Community Plan. A grade-separated railroad crossing of the CSX Railroad realignment and the connection of several existing side streets in the project path (such as the existing Morrisville-Carpenter Road, Good Hope Church Road and Saunders Grove Lane) are also included. After completion of the roadway realignment project, the existing at-grade crossings of Morrisville-Carpenter Road and Carpenter Fire Station Road just east of the NC-55 highway will be permanently closed.

PROJECT LOCATION:



C. TRANSPORTATION

PROJECT TITLE: Carpenter Fire Station Road Widening (NC 55 to East of Cameron Pond)

RESPONSIBLE DEPARTMENT: Transportation & Facilities

PROJECT FUNDING: \$3,150,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

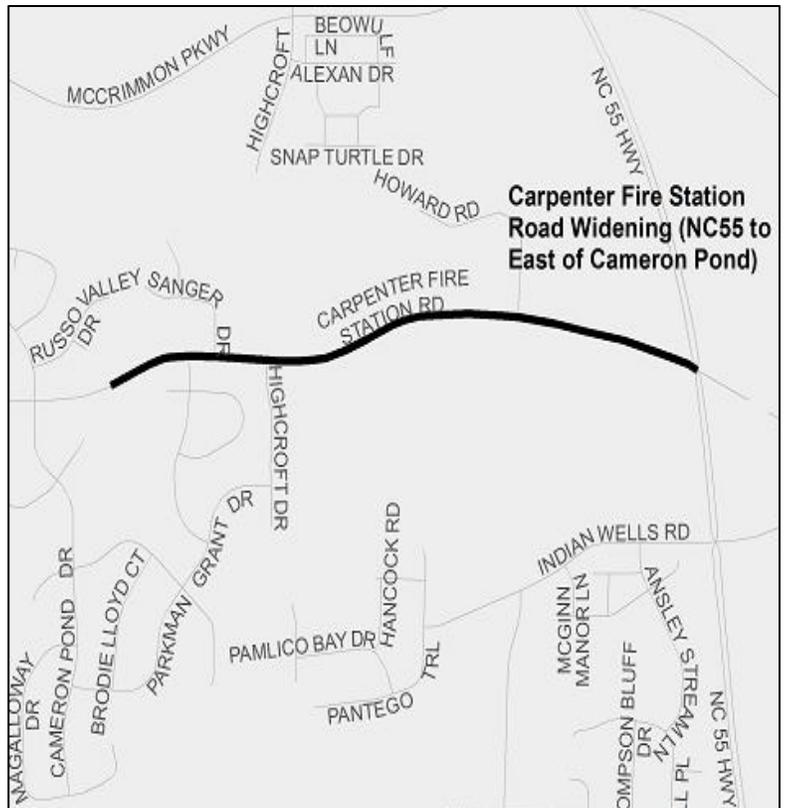
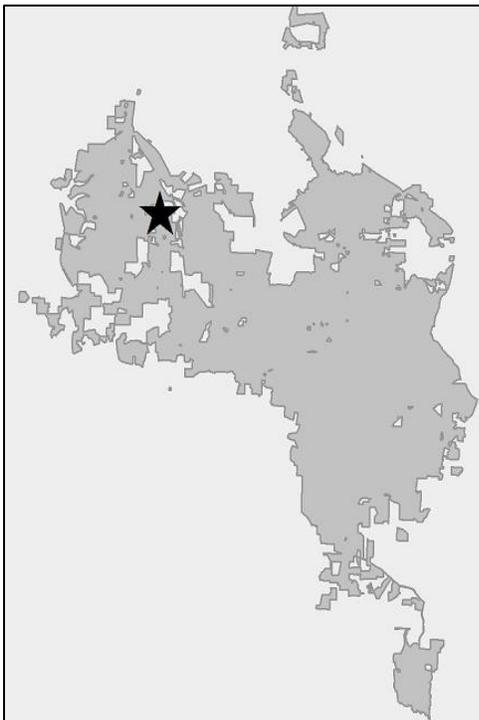
This project provides for the widening of Carpenter Fire Station Road from NC 55 highway to just east of the Cameron Pond development. The widened segment will be a four-lane, median divided roadway with curb, gutter and sidewalks on both sides. A left turn lane will be added at critical intersections.

Total project cost is estimated at \$10,350,000. A total of \$1,100,000 has been appropriated through FY 2018 for design. The \$3,150,000 FY 2019 appropriation supports right of way acquisition with another \$6,100,000 identified in FY 2021 for construction.

PROJECT JUSTIFICATION:

This widening will address congestion issues in the western segment of Cary by providing additional roadway capacity.

PROJECT LOCATION:



D. TRANSPORTATION

PROJECT TITLE: GoCary Bus Stop Improvements

RESPONSIBLE DEPARTMENT: Transportation & Facilities

PROJECT FUNDING: \$1,016,000

FIRST YEAR ESTIMATED OPERATING COSTS: \$20,000

PROJECT DESCRIPTION:

This project provides for upgrades to existing GoCary bus stops to bring them into compliance with requirements of the Americans with Disabilities Act (ADA) and construction of new ADA compliant bus stops associated with expanded GoCary routes funded through the Wake County Transit Plan. Improvements will be site specific and could include features such as: concrete boarding pads, benches, bike racks and any necessary associated ramp and/or sidewalk improvements.

The \$1,016,000 FY 2019 appropriation is funded with Wake County Transit Tax proceeds.

PROJECT JUSTIFICATION:

The Federal Highway Administration's Pedestrian Safety Guide for Transit Agencies states that the location and design of transit stops can significantly impact the safety and comfort of pedestrians accessing transit services. ADA guidelines (10.2.1) require a boarding pad to be located at bus stops to allow pedestrians to enter and exit the bus safely without entering the street. This boarding pad must have a firm, stable surface that is free of obstructions and connected to the adjacent sidewalk network.

PROJECT LOCATION:

This project will occur in various locations throughout the GoCary service area.

E. TRANSPORTATION

PROJECT TITLE: GoCary Capital Amenities

RESPONSIBLE DEPARTMENT: Transportation & Facilities

PROJECT FUNDING: \$75,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides funding for capital related improvements such as transit shelters and amenities, bus stop lighting and technology within the existing GoCary system and its facilities. Shelters and bus stop amenity improvements will be prioritized based on transit demand. The Wake County Transit Plan (WCTP) requires that a base level of funding be provided annually by participating local governments in order to continue to receive Wake County Transit Tax funding. The FY 2019 \$75,000 appropriation is fully funded with Town of Cary dollars and fulfills this annual requirement.

PROJECT JUSTIFICATION:

As ridership continues to grow, there is a need to outfit existing bus stops with benches and shelters and implement appropriate technology to increase productivity and continue meeting Federal Transit Administration (FTA) regulations.

PROJECT LOCATION:

This project will occur in various locations throughout the GoCary service area.

F. TRANSPORTATION

PROJECT TITLE: GoCary Downtown Multimodal Station

RESPONSIBLE DEPARTMENT: Transportation & Facilities

PROJECT FUNDING: \$4,000,000

FIRST YEAR ESTIMATED OPERATING COSTS: \$167,500

PROJECT DESCRIPTION:

This project provides funding for the construction of a multimodal station located in downtown Cary, likely adjacent to the North Carolina Railroad (NCRR) rail right-of-way. The Wake County Transit Plan funded a feasibility study for the Downtown Multimodal Station in FY 2018 allowing the Town and regional partners to explore design options that consider current infrastructure and short and long-term public transportation needs. Total project cost is estimated at \$21,000,000. The Wake County Transit Plan (\$19,000,000) and the CAMPO LAPP program (\$2,000,000) are funding the design, land acquisition, and construction phases of this project. The \$4,000,000 FY 2019 appropriation supports right-of-way acquisition and design of the multimodal station and is funded 50% with LAPP grant funding and 50% with Wake County Transit Tax funds. Construction costs of \$17 million are programmed for FY2020.

PROJECT JUSTIFICATION:

The Cary Depot currently serves as the main hub for GoCary services and a secondary hub for GoTriangle services. It is near capacity for buses coming in to make connections for passengers which creates safety concerns along the depot access road.

Through this project, downtown Cary will serve as a primary station point for local bus; regional bus; Bus Rapid Transit (BRT); Commuter Rail Transit (CRT); Amtrak Rail services; and primary park and ride lot.

PROJECT LOCATION

This project's location has not yet been determined.

G. TRANSPORTATION

PROJECT TITLE: GoCary Wayfinding Signage

RESPONSIBLE DEPARTMENT: Transportation & Facilities

PROJECT FUNDING: \$100,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project supports the design and installation of transit-related wayfinding signage, including passenger information materials. Locations for signage will be prioritized based on their potential for transfers between modes of transportation, demand, travel patterns, development, public request, and agency coordination.

Total project cost is estimated at \$450,000 and is fully funded with Wake County Transit Tax dollars. The FY 2019 \$100,000 appropriation will begin funding passenger information materials and signage.

PROJECT JUSTIFICATION:

This project will increase awareness of transit services in and around Cary, make using transit easier, and encourage the use of alternative transportation including GoCary. Wayfinding will better identify transit locations and help pedestrians, cyclists, and motorists understand where and how to access modes of transit in Cary and throughout the region.

PROJECT LOCATION:

This project will occur in various locations throughout the GoCary service area.

H. TRANSPORTATION

PROJECT TITLE: Lake Pine Drive Road Widening and Sidewalk Improvements

RESPONSIBLE DEPARTMENT: Transportation & Facilities

PROJECT FUNDING: \$300,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

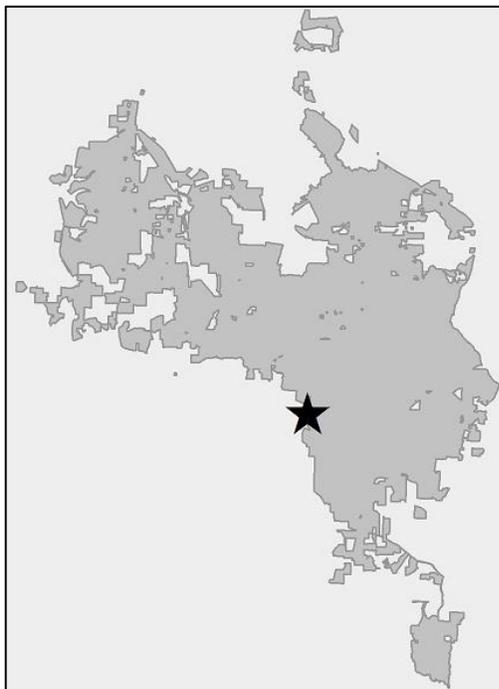
This project provides for the addition of one lane with bike and pedestrian facilities on Lake Pine Drive near Versailles Drive and Apex Community Park. It is a shared project with the Town of Apex and a LAPP grant and is being managed by the Town of Apex.

The Town of Cary's portion of the project totals \$433,000. A total of \$133,000 has been appropriated through FY 2018. The \$300,000 FY 2019 appropriation represents the additional funds needed for construction and project completion.

PROJECT JUSTIFICATION:

The project is important to the towns of Cary and Apex as it completes pedestrian and bicycle connections along Lake Pine Drive between the two municipalities.

PROJECT LOCATION:



I. TRANSPORTATION

PROJECT TITLE: Reedy Creek Road Widening – NE Maynard Road to N Harrison Avenue

RESPONSIBLE DEPARTMENT: Transportation & Facilities

PROJECT FUNDING: \$6,720,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

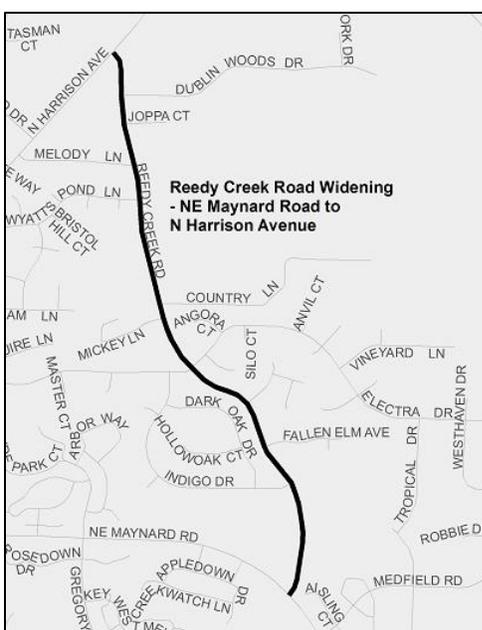
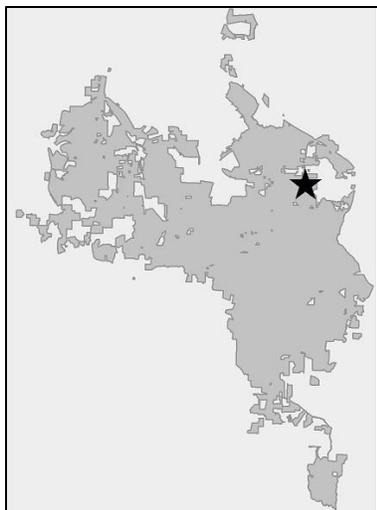
This project provides for the widening of the 6,000-foot-long NE Maynard Road to N Harrison Avenue segment of Reedy Creek Road to a three-lane cross section with curb and gutter, bicycle accommodations and sidewalk on both sides.

The Total project cost is estimated at \$13,787,500. A total of \$7,067,500 has been appropriated to date for design, the purchase of all right-of-way needed along the 6,000-foot segment as well as construction funding for 3,000 feet (or half) of the total segment. The FY 2019 \$6,720,000 appropriation addresses construction of the remaining 3,000 feet of the total road segment. A portion of the FY 2019 appropriation (\$632,029) consists of grant funding from the Capital Area Metropolitan Planning Area Organization (CAMPO). The remaining \$6,087,971 appropriated in FY 2019 is supported with Town funds. The Town intends to apply for additional CAMPO grant funding during FY 2019 to potentially offset up to 50% of the Town's FY 2019 appropriation.

PROJECT JUSTIFICATION:

This segment of Reedy Creek Road currently has no sidewalks or street lights. This road widening will not only provide additional road capacity, but also offer safe pedestrian options for those walking to one of the schools, neighborhoods or retail establishments located in this area.

PROJECT LOCATION:



J. TRANSPORTATION

PROJECT TITLE: Sidewalk and Pedestrian Improvements

RESPONSIBLE DEPARTMENT: Transportation & Facilities

PROJECT FUNDING: \$1,750,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the construction of new sidewalks along existing roadways. Selected sidewalks are requested by petition, prioritized by staff and approved by Town Council. Sidewalks identified in the Imagine Cary Plan may also be implemented. The project also provides funds to address pedestrian mobility problems at intersections. Examples include removing medians in crosswalks and adding or modifying wheel chair ramps and crosswalks. The scope of work completed at each intersection could be different based upon each intersection's specific needs. Intersections will be selected by staff and improvements implemented based on staff evaluation.

Project cost for FYs 2019 – 2029 is estimated at \$24.75 million. The FY 2019 appropriation totals \$1,750,000. The remaining \$23 million is spread among annual funding needs noted in FYs 2020 – 2029 of the capital improvements plan.

PROJECT JUSTIFICATION:

Sidewalks are important to pedestrian safety and have become more important as an alternate mode of transportation. This project allows the Town to address sidewalk needs throughout Cary. The Town's sidewalk program was a consideration in Cary's designation as a Walk-Friendly Community.

PROJECT LOCATION:

This project will occur in various locations as determined by petition and staff prioritization.

K. TRANSPORTATION

PROJECT TITLE: Signal System – Upgrade Traffic Signal Controllers (Connected Vehicles)

RESPONSIBLE DEPARTMENT: Transportation & Facilities

PROJECT FUNDING: \$2,000,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the installation of advanced traffic signal controllers into existing traffic signal cabinets to permit the use of high-definition data collection from existing traffic signal detectors for use with the advanced performance measures engines within our current signal system software.

The FY 2019 \$2 million appropriation fully supports the traffic signal controller and CV initiatives discussed above and consists of \$1.6 million in LAPP grant funding and \$400,000 of matching Town funds.

PROJECT JUSTIFICATION:

The advanced performance measures will allow staff to utilize more of the capabilities of our new signal system software by tracking data of each vehicle at each intersection and analyzing arrivals, delay, offsets, etc. The result is thousands of data points daily showing true traffic flow at intersections and along corridors. When used in combination with our growing CCTV coverage, the efficiency of our traffic signal coordination timing can be improved in less time by staff. This data can also be packaged and made available to the public through graphs, charts and other output media.

The project also supports installation of Connected Vehicle (CV) equipment at approximately 100 intersections throughout town. CV technology will ultimately allow vehicles and the Town's signal system to communicate with one another resulting in safety and efficiency improvements. Communication will occur through cellular and/or radio (DSRC) depending upon the vendor(s) chosen. The Town is currently testing CV technology with NCDOT.

PROJECT LOCATION:

This project will occur in various intersections throughout Cary based on staff prioritization.

L. TRANSPORTATION

PROJECT TITLE: Spot Improvements (Based on Levels of Service and Citizen Concerns)

RESPONSIBLE DEPARTMENT: Transportation & Facilities

PROJECT FUNDING: \$150,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project includes physical improvements at intersections and streets around the Town of Cary. Improvements could include the addition of left and right turn lanes, lengthening of turn lanes or other alternate intersection improvements to address traffic flow, capacity and safety. Intersections will be selected by staff and improvements implemented based on staff evaluation.

A funding need of \$2,950,000 has been identified across FYs 2019 – 2029 of the capital improvements plan. The FY 2019 appropriation totals \$150,000.

PROJECT JUSTIFICATION:

Most traffic congestion challenges in the Town's transportation system are the result of the operations of individual intersections. Intersections are evaluated on a routine basis for Level of Service (LOS) in the morning and afternoon. This project implements improvements at intersections with the worst LOS ratings, as well as those with identified safety concerns.

PROJECT LOCATION:

Recommendations of specific intersections for improvement will be brought to Council throughout the course of the fiscal year.

M. TRANSPORTATION

PROJECT TITLE: Street Improvement Project

RESPONSIBLE DEPARTMENT: Transportation & Facilities

PROJECT FUNDING: \$7,100,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

The \$7.1 million FY 2019 appropriation to this project supports the Town's pavement management program and focuses on the implementation of pavement quality improvements in accordance with generally accepted resurfacing cycles.

PROJECT JUSTIFICATION:

This maintenance project provides asphalt patching and overlays for various Town maintained streets. Streets are selected for improvement based on a rating system. Staff reviews specific street maintenance needs each fall and formulates a list of streets to be presented to and approved by Town Council and addressed each spring.

PROJECT LOCATION:

This project will occur in various locations as determined by a rating system.

N. TRANSPORTATION

PROJECT TITLE: Street Storm Drainage System Rehabilitation

RESPONSIBLE DEPARTMENT: Transportation & Facilities

PROJECT FUNDING: \$850,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This maintenance project provides for storm drainage improvements to Cary's street drainage systems in the rights of way. Problem areas such as those where water stands at the curb, pipes fail, and/or freezing water remains on the road surface are examples of the types of maintenance issues addressed via this project. The Town's Public Works department will continue to perform routine maintenance functions to the street storm drainage system. Only projects beyond the scope of Public Works' normal functions would fall under this project. Some criteria to define when this project would apply include:

- work takes longer than one week to repair;
- work requires additional right of way or easement;
- work requires a detailed design; and/or work requires bidding.

PROJECT JUSTIFICATION:

Routine maintenance of the Town's storm drainage system prevents failures and alleviates safety hazards. Town staff annually evaluates the storm drainage system and ranks problem areas from highest priority to least. Funding is first applied to those projects ranked as highest priority.

PROJECT LOCATION:

This project will occur at various locations as the need arises throughout the Town's transportation system.

O. TRANSPORTATION

PROJECT TITLE: Thoroughfare Street Lights

RESPONSIBLE DEPARTMENT: Transportation & Facilities

PROJECT FUNDING: \$200,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the installation of street lights along thoroughfares within the Town of Cary. Providing sufficient street lighting improves vehicle, pedestrian and cyclist safety. Street lights are installed on an as-needed basis via an agreement with Duke Energy who installs the lights and is then paid by the Town.

PROJECT JUSTIFICATION:

Total project cost is estimated at \$800,000. The FY 2019 appropriation totals \$200,000. The remaining \$600,000 is identified in FY 2023 (\$300,000) and FY 2027 (\$300,000).

PROJECT LOCATION:

This project will occur at various locations as the need arises.

FISCAL YEAR 2019 GENERAL CAPITAL IMPROVEMENTS

FIRE CAPITAL IMPROVEMENTS FUND

If utilizing this document in PDF, click on any item below to link to that information.

A.	<u>\$2,750,000</u>	Aerial Ladder Replacement - #1978 and #1997
	<u>\$ 2,750,000</u>	Total

In the following individual project description pages, the estimated personnel, operating and maintenance impacts are provided to show a more comprehensive view of each project. Some projects will be completed mid-year; the impact shown is for the first full year after the project is complete. Any impact that begins after FY 2019 has been adjusted for inflation in the outer years.

Inflation is conservatively factored in at 5% per year. Some projects do not show annual impacts although there may be minor maintenance investments at various intervals after project completion.

A. FIRE

PROJECT TITLE: Aerial Ladder Replacement - #1978 and #1997

RESPONSIBLE DEPARTMENT: Fire

PROJECT FUNDING: \$2,750,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the scheduled replacement of two aerial ladder trucks, #1978 and #1997, both of which have been in service since 2003. The \$2.75 million FY 2019 appropriation fully funds replacement of these vehicles.

PROJECT JUSTIFICATION:

Aerial ladder trucks have an effective useful life of 12 years. Based on input from the Town's Fleet Management division regarding current operating costs and down time, it is recommended that these units be replaced.

PROJECT LOCATION:

Final station assignment of the aerial ladder trucks has not yet been determined.

FISCAL YEAR 2019 GENERAL CAPITAL IMPROVEMENTS

PARKS, RECREATION AND CULTURAL RESOURCES CAPITAL IMPROVEMENTS FUND

If utilizing this document in PDF, click on any item below to link to that information.

A.	\$125,000	Athletic Field Fencing Amenities Replacement
B.	88,000	Athletic Field Fencing Repair/Replacement
C.	440,000	Athletic Field Lighting Replacement
D.	50,000	Greenway Pedestrian Structure Repair
E.	320,000	Greenway Resurfacing Projects
F.	3,100,000	Higgins Greenway - Phase III - Maynard to Downtown
G.	350,000	Koka Booth Amphitheatre Improvements
H.	365,000	Park and Greenway Renovations
I.	110,500	Playground Surface Repairs/Replacements
J.	215,000	PRCR Facility Improvements
K.	50,000	Public Art - Higgins Greenway - Maynard to Downtown
L.	50,000	Public Art - Western Cary Community Facility
M.	125,000	Tennis Court Fencing Repair/Replacement
N.	173,000	Tennis Court Renovations
O.	500,000	Thomas Brooks Park Field Drainage
P.	1,400,000	WakeMed Soccer Park Facility Improvements - Interlocal Small Projects
Q.	70,000	Western Cary Disc Golf
	\$ 7,531,500	Total

In the following individual project description pages, the estimated personnel, operating and maintenance impacts are provided to show a more comprehensive view of each project. Some projects will be completed mid-year; the impact shown is for the first full year after the project is complete. Any impact that begins after FY 2019 has been adjusted for inflation in the outer years.

Inflation is conservatively factored in at 5% per year. Some projects do not show annual impacts although there may be minor maintenance investments at various intervals after project completion.

A. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Athletic Field Fencing Amenities Replacement

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$125,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

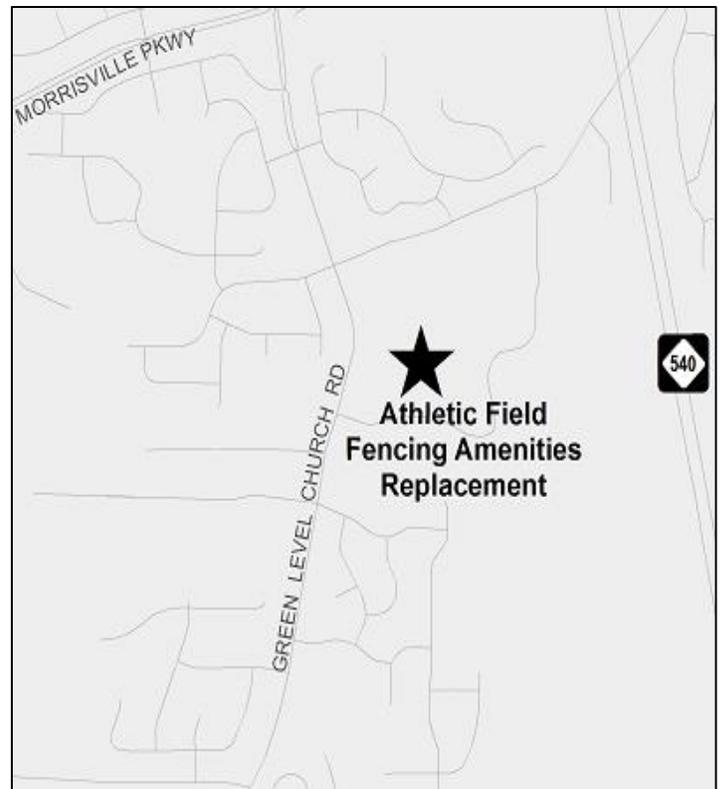
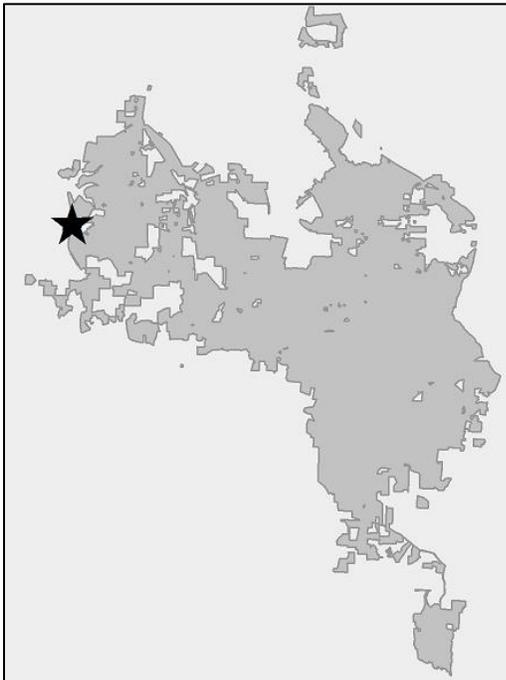
This project provides for the phased replacement of fencing amenities such as windscreens, safety caps, padding and netting on a scheduled basis.

Total project cost is estimated at \$1,059,500. The FY 2019 appropriation totals \$125,000 for Thomas Brooks Phase II fields 1 – 4. The remaining \$934,500 is spread among funding needs identified in FYs 2021 – 2029 of the capital improvements plan.

PROJECT JUSTIFICATION:

These amenities generally have a useful life of four years due to deterioration from weather and extensive use. As fencing amenities approach their fourth year, an assessment of the structural integrity of the materials is conducted to determine if the particular site needs to be addressed or can be delayed. Options include repair, partial replacement, or full replacement.

PROJECT LOCATION:



B. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Athletic Field Fencing Repair/Replacement

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$88,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

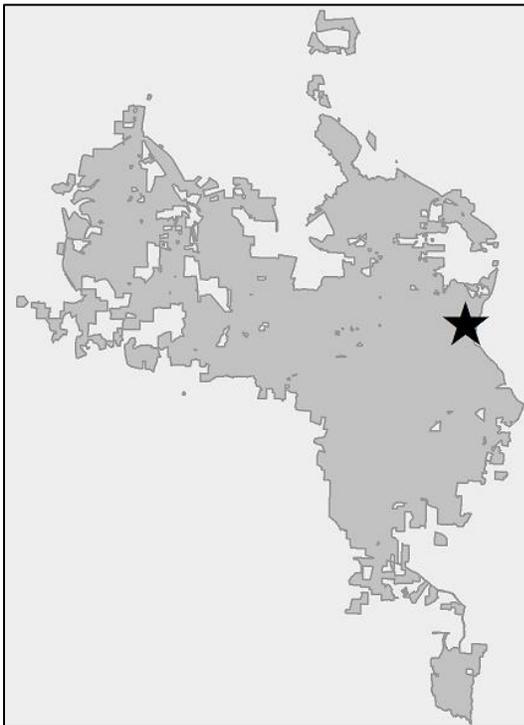
PROJECT DESCRIPTION:

This project provides for the phased replacement of athletic field fencing on a scheduled basis. Fencing generally has a useful life of 10 years based on fencing screen and pole materials. Total project cost is estimated at \$1,079,000. The FY 2019 appropriation totals \$88,000 for Wake Med Soccer Park fields 2 - 5. The remaining \$991,000 is spread among funding needs identified in FYs 2020 – 2029 of the capital improvements plan.

PROJECT JUSTIFICATION:

As fences approach their tenth year, an assessment of the structural integrity of the materials is conducted to determine if the particular site needs to be addressed or can be delayed. Options include repair, partial replacement, or full replacement.

PROJECT LOCATION:



C. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Athletic Field Lighting Replacement

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$440,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

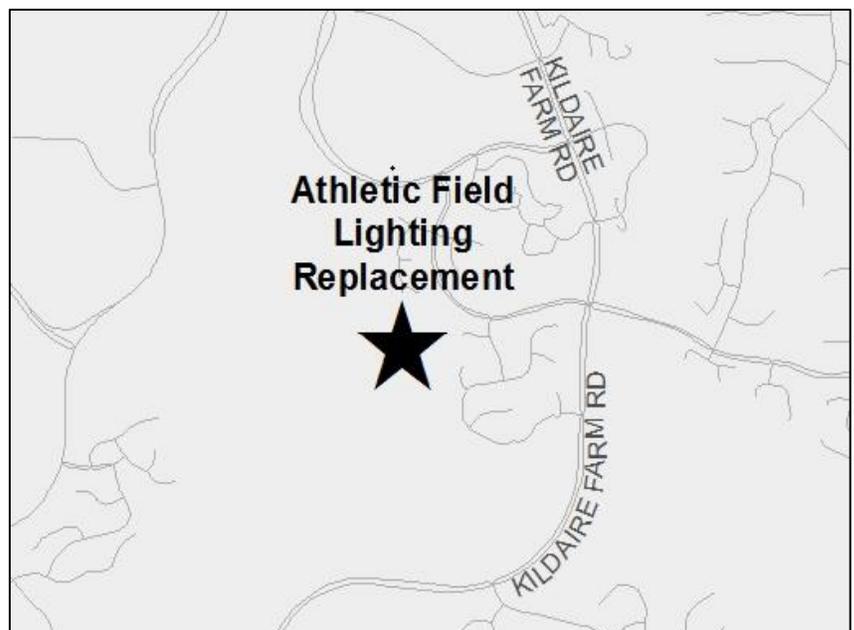
This project provides for the replacement of athletic field lighting. The Town has completed an audit of all fields to determine the condition of the existing athletic field lighting. Although lighting levels increased significantly with the full field re-lamp of 18 fields that the Town conducted in 2008, most fields fail to meet the current recommended standard for Class III Competition Play of 50 foot-candles infield and 30 foot-candles outfield. Life cycle cost savings associated with new lighting technology is estimated at \$63,800 for a field with a 200' radius and \$109,000 for a field with a 300' radius.

Total project cost is estimated at \$2,110,000. The FY 2019 appropriation totals \$440,000 and addresses Ritter Park fields 1 & 2. The remaining \$1,670,000 for other fields is spread among funding needs identified in FYs 2021 – 2025 of the capital improvements plan.

PROJECT JUSTIFICATION:

Replacing field lighting systems provides the following benefits – meets the current recommend light levels for safety based on the level of play occurring on the fields; new technology allows less energy to be used to get the same amount of light on the fields and focuses the light where it is needed; and allows the light systems to be remotely controlled and monitored via the internet.

PROJECT LOCATION:



D. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Greenway Pedestrian Structure Repair

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$50,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for design and major repairs to approximately 150 pedestrian structures (including pedestrian bridges, boardwalks, tunnels and overlooks) within the Town's park and greenway system. Each year, one-third of the structures are inspected, cataloged and rated in order to produce a report identifying needed repairs. While the Town of Cary's Public Works department completes basic maintenance, this project provides for major repairs that are better addressed by specialized contractors.

PROJECT JUSTIFICATION:

A scheduled, routine maintenance program such as this is an effective means of ensuring structure safety and preventing more significant and/or costly future repairs.

PROJECT LOCATION:

Repairs will occur throughout the greenway system based on a condition assessment and prioritization of the Town's pedestrian structures.

E. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Greenway Resurfacing Projects

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$320,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

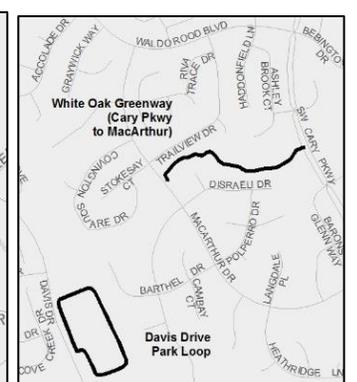
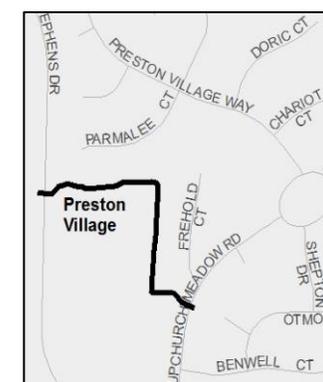
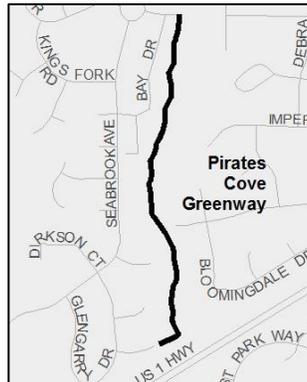
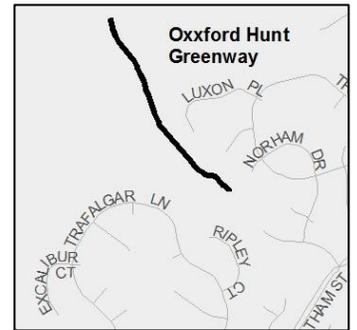
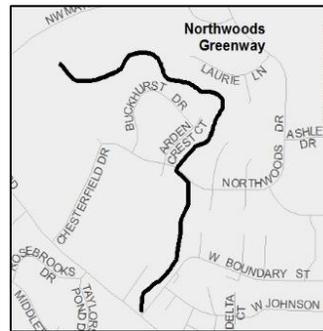
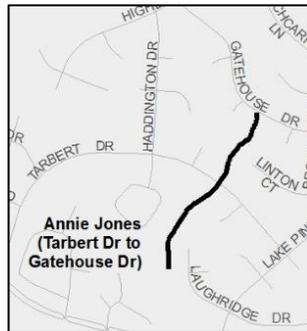
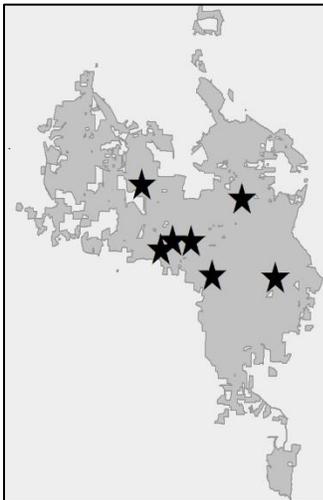
This routine maintenance project provides for repair and restoration of greenways throughout the town. Greenways are selected for resurfacing based on a priority ranking system that takes facility age and usage into account. The \$320,000 FY 2019 appropriation funds repair and restoration of the following greenways:

- Swift Creek/Pirates Cove – 0.1 miles
- Davis Drive Park Loop/Oxford Hunt/Northwoods/White Oak (Cary Parkway to MacArthur)/Preston Village – 2.65 miles
- Annie Jones (Tarbert Drive to Gatehouse Drive) – 0.15 miles

PROJECT JUSTIFICATION:

Greenway trails most frequently experience asphalt failure because of being located in wet environments and/or adjacent to trees whose root systems cause lifting and cracking. Application of a new surface coating provides additional protection and promotes extended life of the greenways.

PROJECT LOCATION:



F. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Higgins Greenway – Phase III – Maynard to Downtown

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$3,100,000

FIRST YEAR ESTIMATED OPERATING COSTS: \$3,000

PROJECT DESCRIPTION:

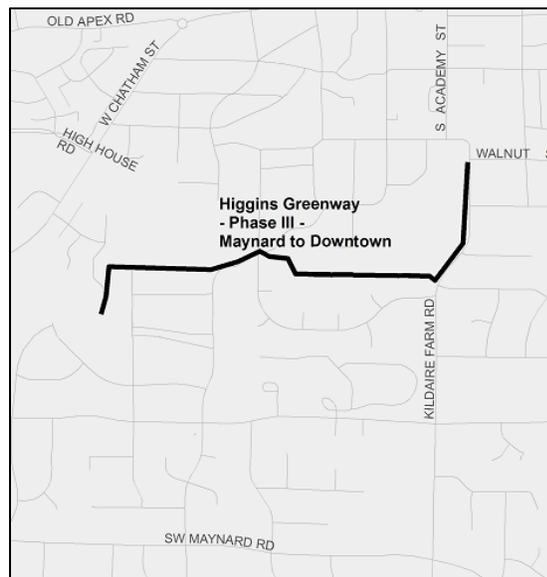
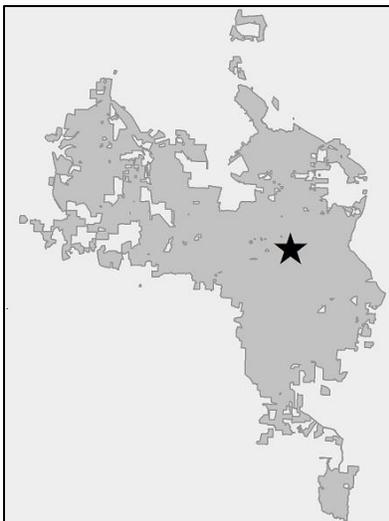
The previous two phases of the Higgins Greenway are complete and extend from SW Maynard Road to Union Street near Dorothy Park. Phase III of the Higgins Greenway will begin where the greenway currently ends at Union Street and will complete the Higgins Greenway to fill a gap in the greenway network and increase connectivity between Downtown Cary and the surrounding neighborhoods. This project will extend the greenway eastward to Kildaire Farm Road near Cary Elementary School and Kay Struffolino Park. From there, users can use sidewalks to access Downtown Cary destinations such as the Cary Arts Center and Downtown Park.

A total of \$200,000 was appropriated in FY 2018 for preliminary design. The \$3.1 million FY 2019 appropriation funds remaining design, right-of-way acquisition and construction and is 65% funded with LAPP grant dollars. Future phases of the greenway totaling \$7,874,050 are planned between FYs 2025 and 2029 of the capital improvements plan.

PROJECT JUSTIFICATION:

This project is part of a larger goal of connecting Downtown Cary to the rest of the Town's greenway network. The greenway will run along a mostly wooded corridor next to residential developments and through the property of two churches with the most unique element being the portion that passes through the Hillcrest Cemetery.

PROJECT LOCATION:



G. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Koka Booth Amphitheatre Improvements

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$350,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

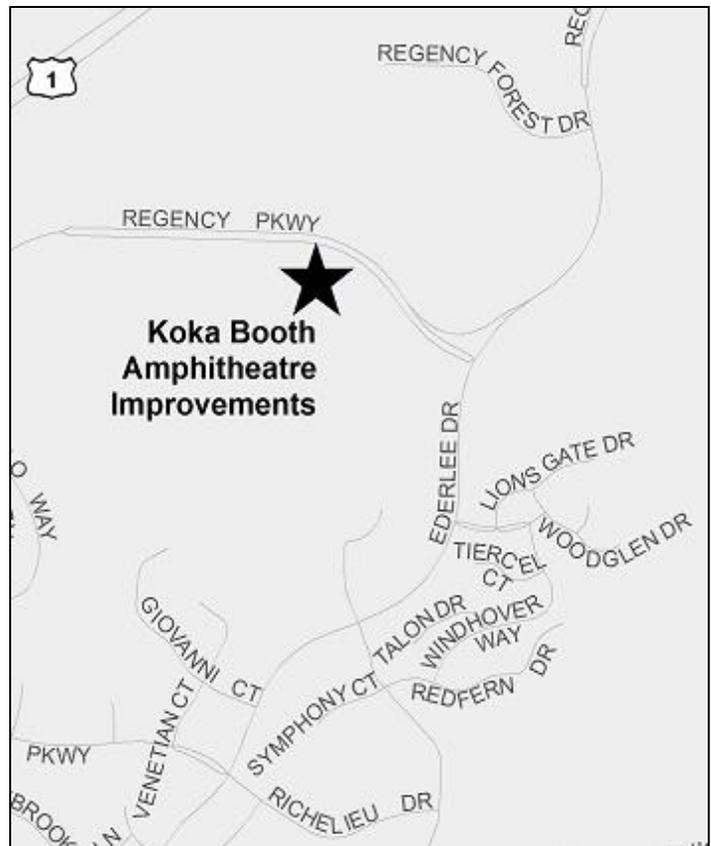
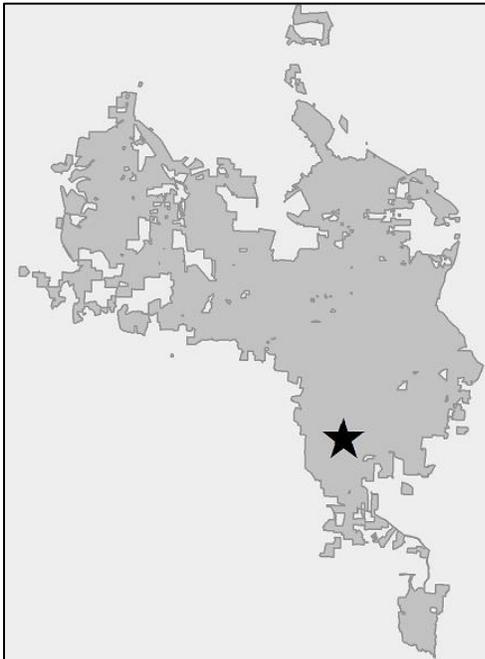
PROJECT DESCRIPTION:

This project provides for construction or installation of major maintenance initiatives and planned improvements at the Koka Booth Amphitheatre. Parks, Recreation and Cultural Resources and Public Works staff work together to identify specific needs and their associated timing. The Koka Booth Amphitheatre opened in 2001 and annually hosts a wide variety of events ranging from concerts and movies to festivals. The \$350,000 FY 2019 appropriation will be directed to lighting and/or sound system needs at the facility

PROJECT JUSTIFICATION:

As the facility is now 18 years old so maintenance and improvement are key to attracting a wide variety of performers and events and successfully serving the community.

PROJECT LOCATION:



H. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Park and Greenway Renovations

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$365,000

FIRST YEAR ESTIMATED OPERATING COSTS: \$5,512

PROJECT DESCRIPTION:

This maintenance project provides park, greenway and related facility renovations throughout the town. Specific facilities are selected for renovation based on a priority ranking system. Each facility is evaluated as it comes up on the scheduled rotation, and renovation is pursued if this assessment verifies that the timing is appropriate based on the facility's current state.

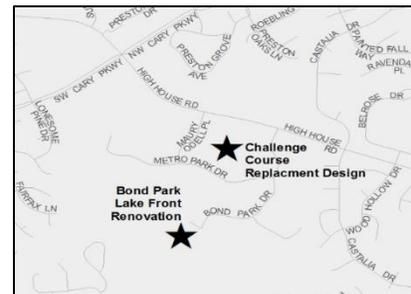
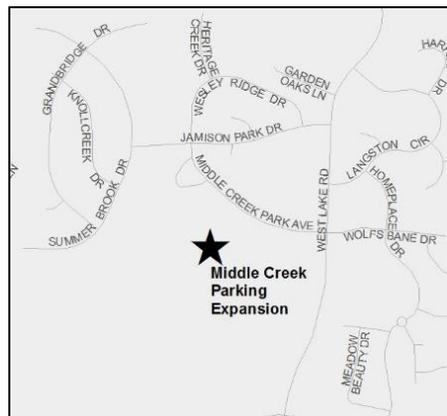
The \$365,000 FY 2019 appropriation supports the following park, greenway and/or related facility renovations:

- Bond Park Lake Front Renovation
- Middle Creek Parking Expansion
- SK8 Cary Ramp Replacement Design
- Challenge Course Replacement Design

PROJECT JUSTIFICATION:

As the Town's existing parks, greenways and related facilities age, renovations and upgrades become necessary. Old signage may need replacement, new site amenities such as benches and trash receptacles may be necessary, and stone walkways may need to be replaced with concrete, asphalt or other hard surfaces for improved access and ease of maintenance. Relatively new parks, greenways and related facilities sometimes have needs, such as benches and fencing, that become apparent only after the facility has been in use for a time.

PROJECT LOCATION:



I. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Playground Surface Repairs/Replacement

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$110,500

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This maintenance project provides for the repair or replacement of rubberized playground surfaces in the Town's park system.

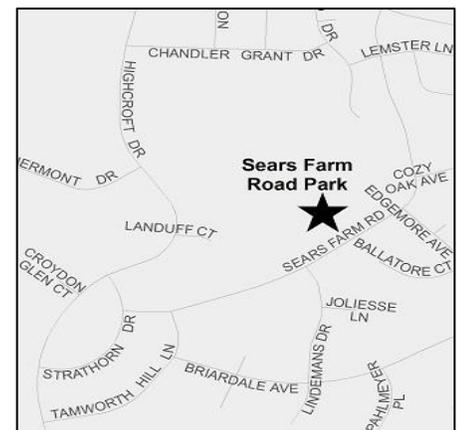
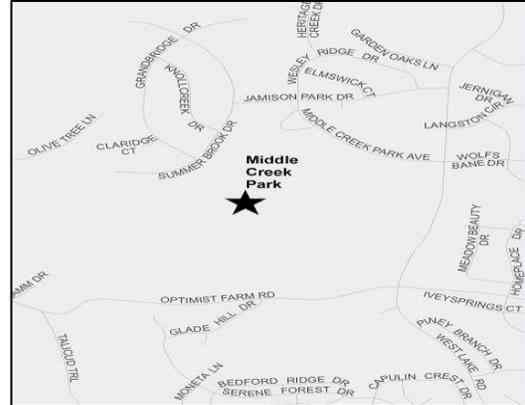
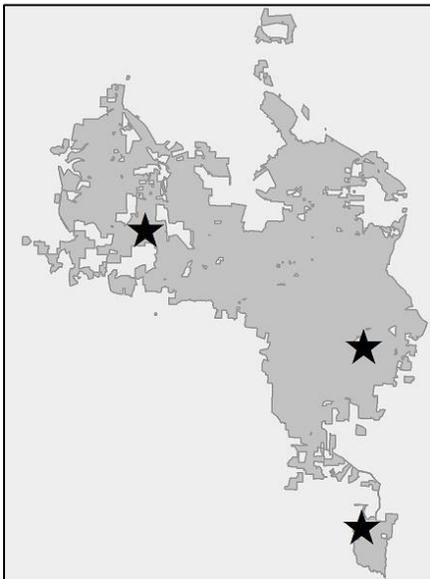
The \$110,500 FY 2019 appropriation supports playground surface repairs or replacement at:

- Kids Together Park
- Middle Creek Park
- Sears Farm

PROJECT JUSTIFICATION:

Playground surfaces are selected for repair or replacement based on a priority ranking system that takes scheduled park renovations and equipment replacements into account.

PROJECT LOCATION:



J. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: PRCR Facility Improvements

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$215,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

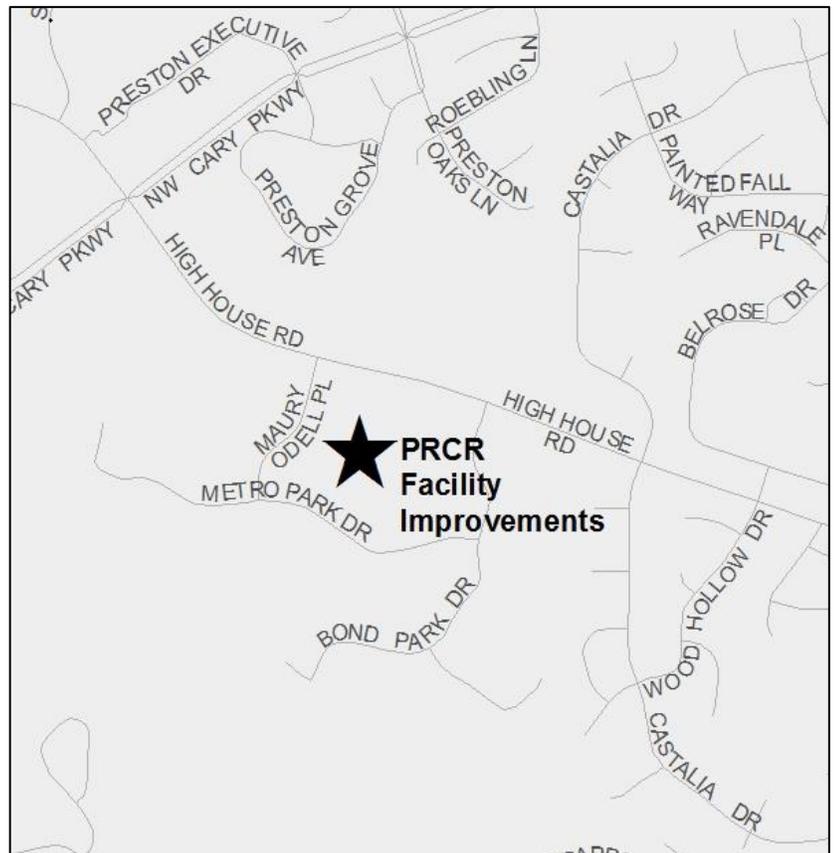
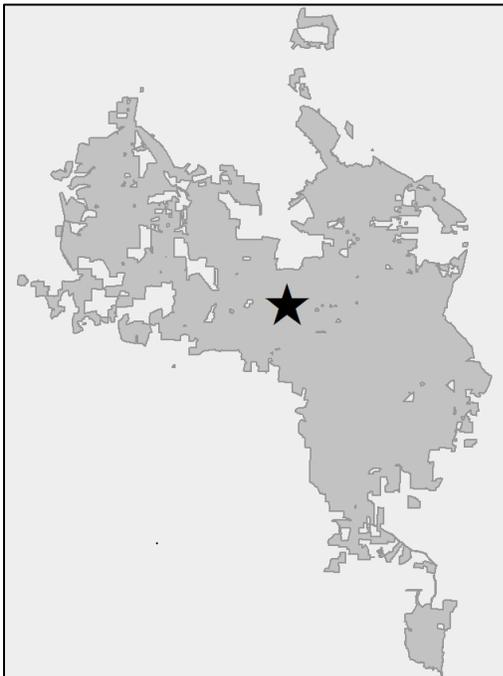
PROJECT DESCRIPTION:

This project provides for periodic improvements to existing PRCR facilities. The \$215,000 FY 2019 appropriation supports enhancements to the Bond Park community center including improvements to the lobby and the replacement of a room divider. The lobby enhancements will focus on customer service and customer experience and will include amenities such as charging stations.

PROJECT JUSTIFICATION:

Enhancing existing facilities over time is important to continuing to meet patron expectations and offer relevant programming.

PROJECT LOCATION:



K. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Public Art – Higgins Greenway – Phase III – Maynard to Downtown

RESPONSIBLE DEPARTMENT: Parks, Recreation and Cultural Resources

PROJECT FUNDING: \$50,000

FIRST YEAR ESTIMATED OPERATING COSTS: \$1,500

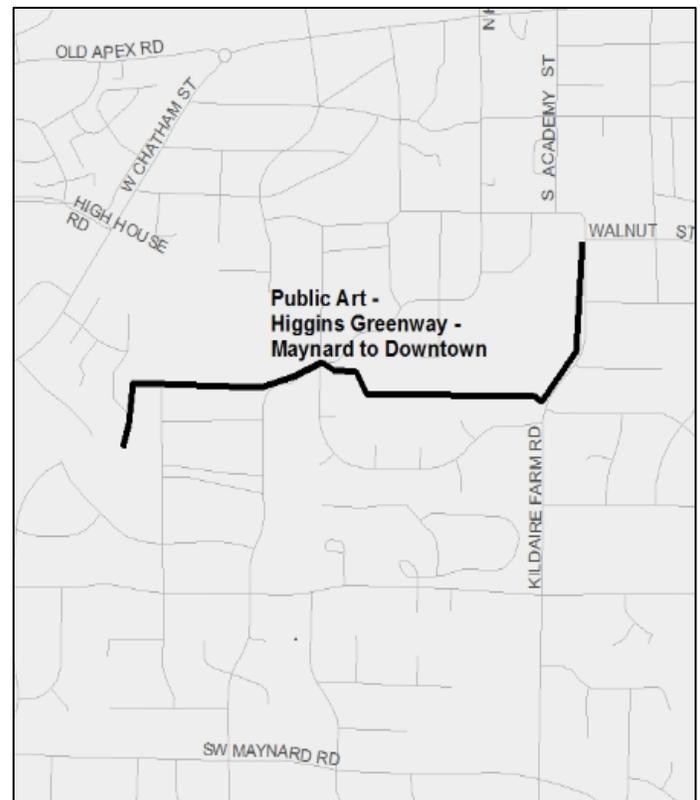
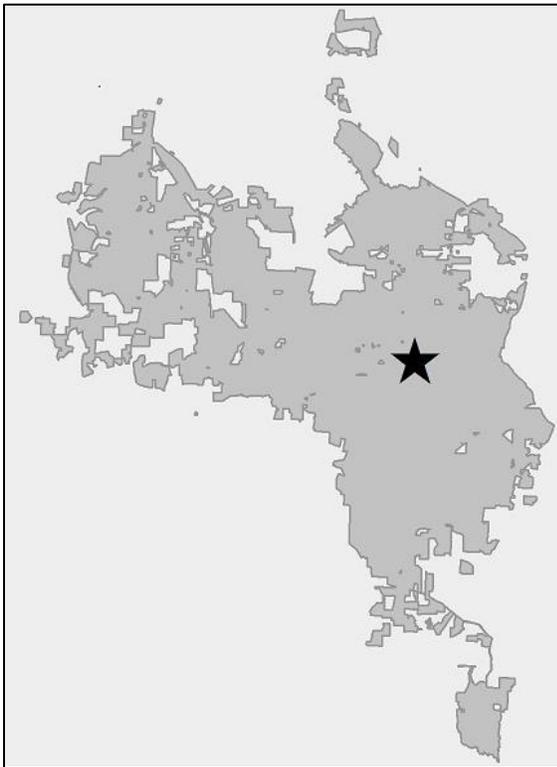
PROJECT DESCRIPTION:

This project provides for design and installation of public art elements in conjunction with design and construction of the Higgins Greenway – Phase III – Maynard to Downtown project. The \$50,000 FY 2019 appropriation fully funds the incorporation of art along this phase of the greenway. An additional \$140,000 funding need associated with public art in future phases of the greenway is identified in FY 2025 (\$40,000) and FY 2029 (\$100,000).

PROJECT JUSTIFICATION:

The incorporation of public art into high profile capital projects at the earliest stages of planning and design helps create opportunities for efficiencies of costs, materials, and functional artwork (i.e. windows, walls, floors, fixtures, retaining wall surfaces inside and out, metal railings, gates and fences, unique lighting, and other functional facility amenities).

PROJECT LOCATION:



L. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Public Art – Western Cary Community Facility

RESPONSIBLE DEPARTMENT: Parks, Recreation and Cultural Resources

PROJECT FUNDING: \$50,000

FIRST YEAR ESTIMATED OPERATING COSTS: \$1,500

PROJECT DESCRIPTION:

This project provides for the incorporation of public art into the future Western Cary Community Facility. While a specific public art program for this future facility has not yet been developed, amenities such as functional public artwork would be considered during the community facility's planning and design process. Total project cost is estimated at \$400,000. The \$50,000 FY 2019 appropriation provides funds for a public artist to be incorporated into the Western Cary Community Facility design team. An additional \$350,000 funding need has been identified in FY 2021 for design, fabrication and installation of selected public art components.

PROJECT JUSTIFICATION:

The incorporation of public art into high profile capital projects at the earliest stages of planning and design helps create opportunities for efficiencies of costs, materials, and functional artwork (i.e. windows, walls, floors, fixtures, retaining wall surfaces inside and out, metal railings, gates and fences, unique lighting, and other functional facility amenities).

PROJECT LOCATION:

This project's location has not yet been determined.

M. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Tennis Court Fencing Repair/Replacement

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$125,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

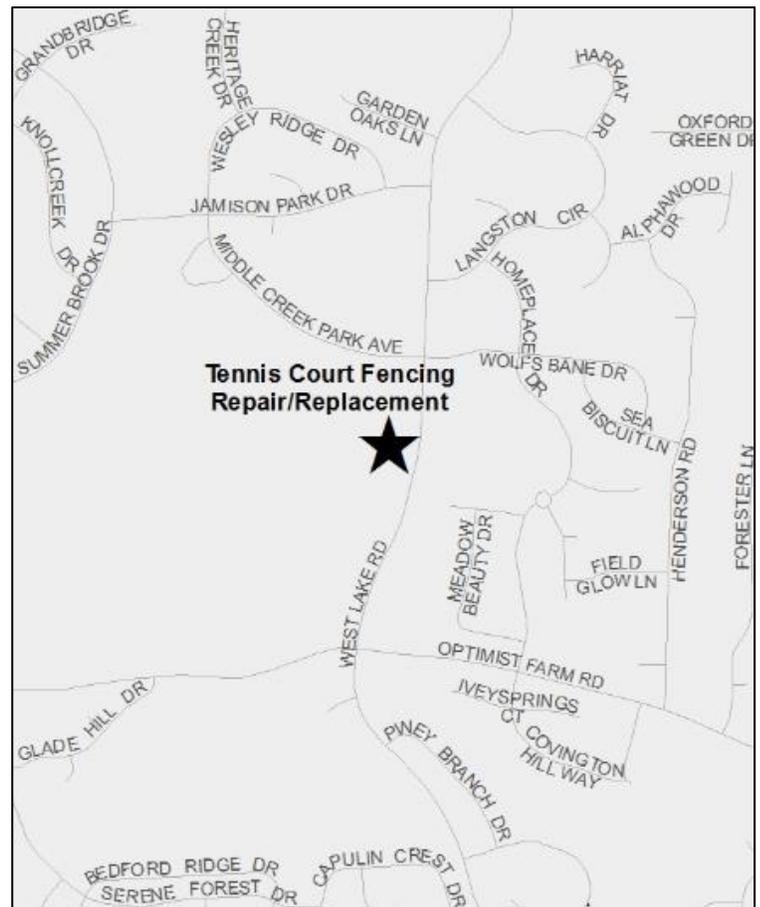
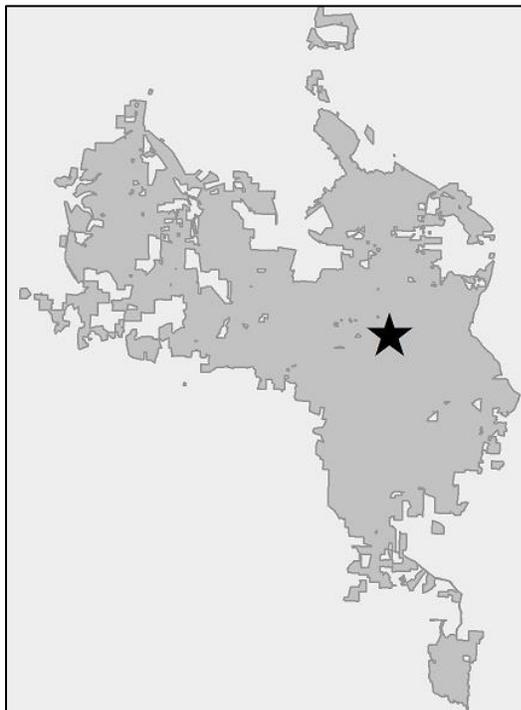
PROJECT DESCRIPTION:

This project provides for the phased repair/replacement of the Town's tennis court fencing on a scheduled basis. The \$125,000 FY 2019 appropriation supports tennis court fencing repair/replacement at Middle Creek Park – courts 1 – 8.

PROJECT JUSTIFICATION:

Staff conducts condition assessments prior to requesting replacements to determine if a fence can remain in service. If the fence is worn to the point where it should not remain in service, it is further reviewed to determine if partial or full replacement is appropriate.

PROJECT LOCATION:



O. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Thomas Brooks Park Field Drainage

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$500,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

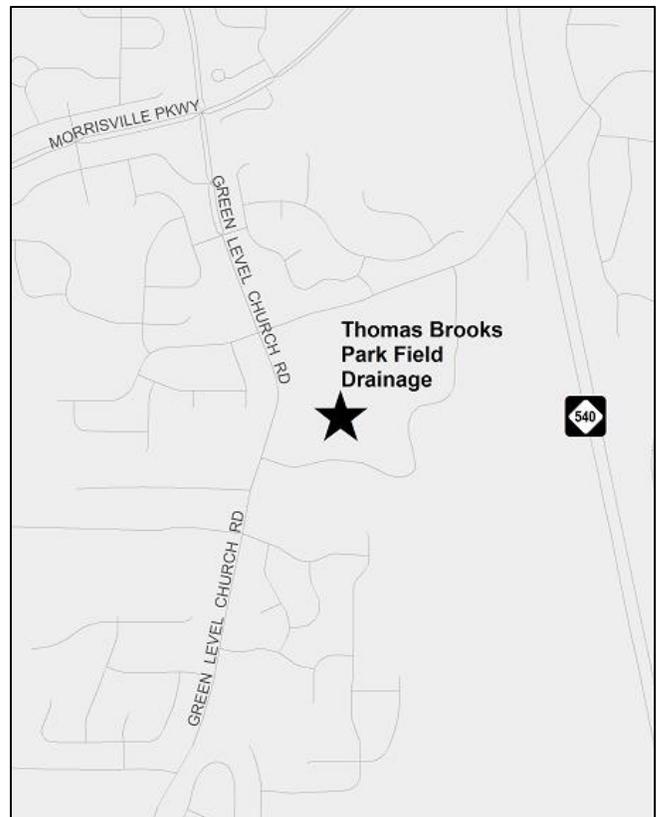
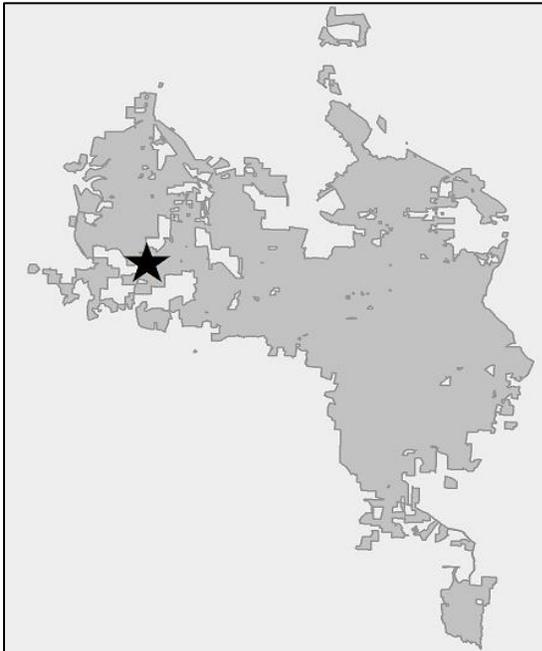
PROJECT DESCRIPTION:

This project provides for the addition of a drainage system to increase the usability of the four Brooks Park recreational-play softball fields which were constructed in 2000. A total of \$1 million has been appropriated through FY 2018. The \$500,000 FY 2019 appropriation provides remaining funding needed for construction of these drainage improvements. Total project cost is estimated at \$1,500,000.

PROJECT JUSTIFICATION:

Since installation back in 2000, there have been ongoing drainage issues which frequently limit play and impact tournaments. The additional drainage system will rectify ongoing drainage issues.

PROJECT LOCATION:



P. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: WakeMed Soccer Park Facility Improvements – Interlocal Small Projects

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$1,400,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

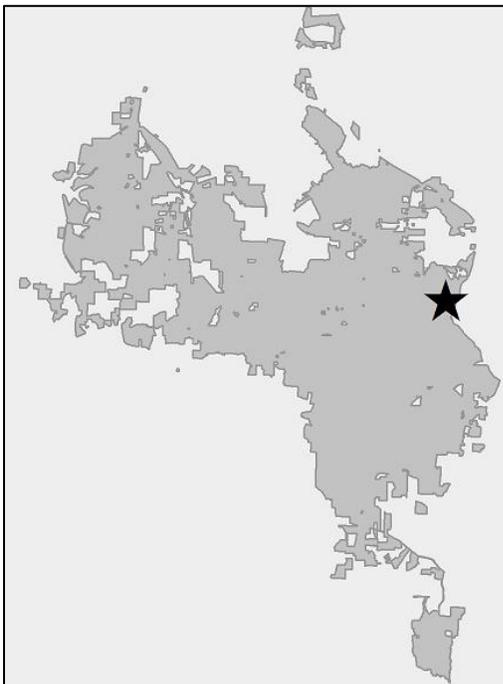
This project provides for lighting improvements on the stadium field, as well as fields 2 and 3 at the WakeMed Soccer Park.

The \$1.4 million FY 2019 appropriation will upgrade lighting coverage on the stadium field and fields 2 and 3 through the addition of poles and the conversion of lighting fixtures to LED. Approximately 35%, or \$490,000 of this appropriation, is supported by hotel/motel and food/beverage tax interlocal funding from Wake County while the remaining \$910,00 represents Town matching funds.

PROJECT JUSTIFICATION:

Current lighting on these fields is 17 years old and below tournament-level standards for soccer, lacrosse and other sports. Existing lighting also falls below television broadcast standards which is problematic as nearly every game held in the stadium is televised or streamed online.

PROJECT LOCATION:



Q. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Western Cary Disc Golf Course

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$70,000

FIRST YEAR ESTIMATED OPERATING COSTS: \$71,000

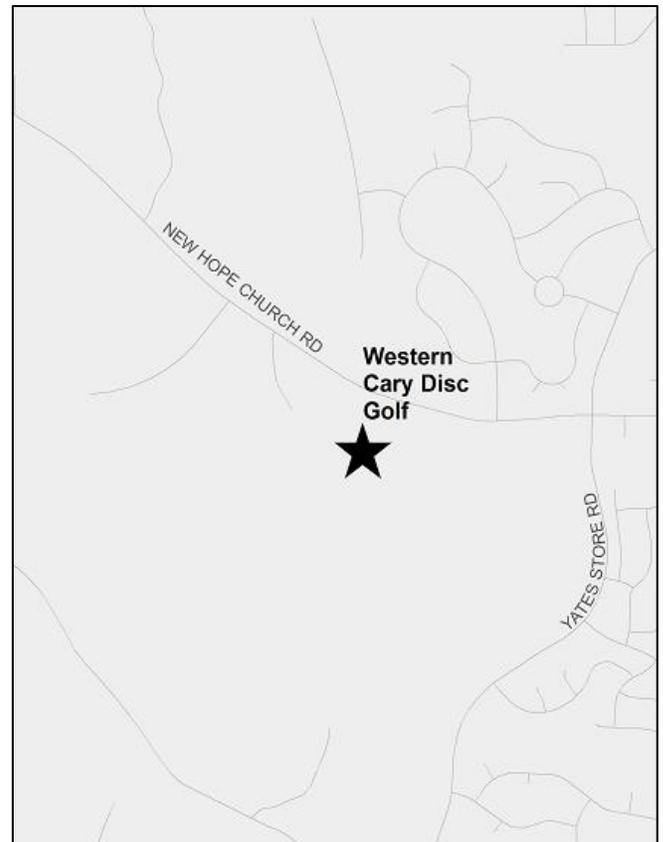
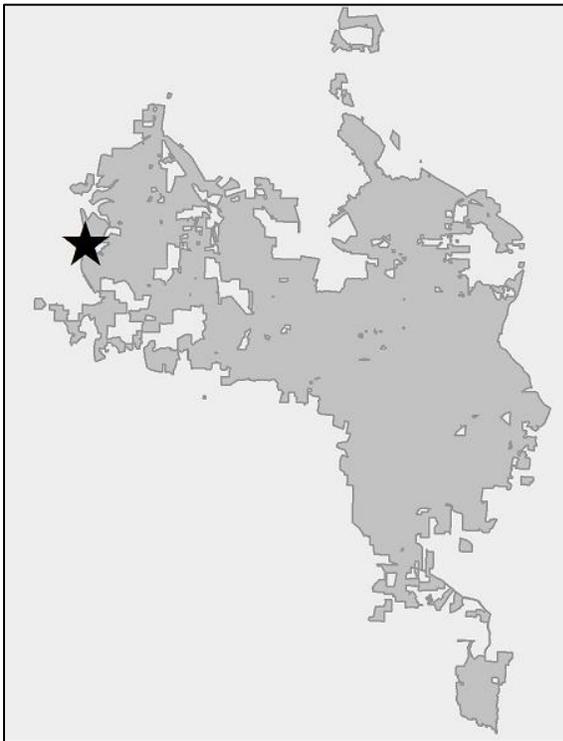
PROJECT DESCRIPTION:

This project provides for the construction of an 18-hole disc golf course in western Cary. Total project cost is estimated at \$120,000. A total of \$50,000 has been appropriated to date for construction and equipment. The \$70,000 FY 2019 appropriation provides additional construction funding which includes the installation of tees, baskets and ADA parking access.

PROJECT JUSTIFICATION:

It was originally planned that construction of the course would be done in-house by Town staff. Scheduling and capacity conflicts have led staff to move to the utilization of outside resources for construction.

PROJECT LOCATION:



FISCAL YEAR 2019 GENERAL CAPITAL IMPROVEMENTS

GENERAL GOVERNMENT CAPITAL IMPROVEMENTS FUND

If utilizing this document in PDF, click on any item below to link to that information.

A.	\$500,000	ADA Improvements at Town Facilities
B.	100,000	AH - Downtown Rehab and Façade Improvement Program
C.	25,000	AH - Minimum Housing Demolition
D.	300,000	AH - Owner Occupied Housing Rehabilitation and Façade Improvement Program
E.	90,000	Facility Painting Interior and Exterior
F.	200,000	Fleet Management - Service Vehicle/Response
G.	850,000	Heavy Equipment Replacement
H.	10,000	Historic Preservation Implementation Activities
I.	550,000	Storm Drainage Project - Private Assistance
J.	600,000	Storm Drainage Project - Town Properties
K.	700,000	Stormwater Condition Assessment and Rehabilitation Program
L.	1,200,000	Technology Implementation - Salesforce
M.	30,000	Upgrade Pedestrian Crossings - Relocation of Push Buttons
	\$ 5,155,000	Total

In the following individual project description pages, the estimated personnel, operating and maintenance impacts are provided to show a more comprehensive view of each project. Some projects will be completed mid-year; the impact shown is for the first full year after the project is complete. Any impact that begins after FY 2019 has been adjusted for inflation in the outer years.

Inflation is conservatively factored in at 5% per year. Some projects do not show annual impacts although there may be minor maintenance investments at various intervals after project completion.

A. GENERAL GOVERNMENT

PROJECT TITLE: ADA Improvements at Town Facilities

RESPONSIBLE DEPARTMENT: Transportation & Facilities

PROJECT FUNDING: \$500,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for accessibility modifications and improvements to Town facilities as outlined in the Town's ADA Transition Plan. Total estimated project cost is \$10.2 million, which includes design, construction and contingency funding. A total of \$335,300 has been appropriated through FY 2018. The \$500,000 FY 2019 appropriation provides for continued implementation of corrective measures. The remaining years of the CIB/P note funding needs to methodically work through the ADA Transition Plan.

PROJECT JUSTIFICATION:

This project originated from the completion of the Town's ADA Transition Plan that is a federal requirement for all state and local governments. The ADA Transition Plan identifies and prioritizes the removal of accessible barriers restricting access to Town supported programs and services. Over 120,000 accessible features were surveyed at 70 Town facilities and approximately 12,000 barriers were identified. Examples of the accessible barrier removal work include remounting existing bathroom accessories per building code compliance, repairing/replacing sidewalks sections, and re-grading disabled parking spaces.

PROJECT LOCATION:

This project will occur in various locations as needed.

B. GENERAL GOVERNMENT

PROJECT TITLE: Affordable Housing – Downtown Rehabilitation and Façade Improvement

RESPONSIBLE DEPARTMENT: Planning

PROJECT FUNDING: \$100,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This program provides financial assistance in the form of matching loans to property owners and businesses located within the Town Center Area to enhance the appearance, function, safety and aesthetics of the façades of downtown properties. Deferred loans of up to \$10,000 are provided per business front. Corner lots with significant or double façade exposure may qualify for an additional \$5,000.

The deferred loan is provided in the form of a reimbursement of eligible costs incurred and is paid utilizing a construction draw process once the improvements have been completed, inspected and approved. The deferred loan is in effect for a minimum of three years. The principal and interest on the loan will be deferred each of the three years. Should the structure be changed or rebuilt during that three- year period, the prorated portion of the deferred loan is paid back to the Town.

If no changes are made, the loan is forgiven at the end of the three-year period. Only certain types of improvements that meet the objectives of the program are eligible for funding. General maintenance items that do not improve the appearance of the business are not eligible.

PROJECT JUSTIFICATION:

The downtown rehabilitation and façade improvement program is one of several incentives provided to small businesses in downtown Cary to stimulate private investment in the downtown area.

PROJECT LOCATION:

This project will occur in various locations as needed.

C. GENERAL GOVERNMENT

PROJECT TITLE: Affordable Housing – Minimum Housing Demolition

RESPONSIBLE DEPARTMENT: Planning

PROJECT FUNDING: \$25,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides funding for legal expenses and demolition costs associated with minimum housing demolitions.

PROJECT JUSTIFICATION:

While enforcing the minimum housing code, in instances where a housing unit is found to be dilapidated, the minimum housing officer may order the structure to be demolished. If the property owner fails to act to demolish the structure, the Town Council has the authority to order that the structure be demolished and to recover the cost of the demolition by placing a lien on the property. Most houses in this situation have become dilapidated due to owner neglect or abandonment, vandalism or fire. Enforcement of minimum housing standards is critical to preventing decline of the Town's housing stock.

PROJECT LOCATION:

This project will occur in various locations as needed.

D. GENERAL GOVERNMENT

PROJECT TITLE: Affordable Housing – Owner-Occupied Housing Rehabilitation

RESPONSIBLE DEPARTMENT: Planning

PROJECT FUNDING: \$300,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This program provides financial assistance to lower-income homeowners to maintain, repair or otherwise rehabilitate their single-family homes. The Town's rehabilitation program concentrates on owner-occupied homes in need of repair to meet code requirements and to provide a clean and safe living environment for the occupants.

Program funds may be utilized for rehabilitation expenses including construction costs and certain associated costs for preparation of cost estimates, bids and monitoring of work. Priority is given to homes located within the Town Center Area, and to homes owned by seniors, but is available Town-wide to homeowners meeting the program guidelines and income limits.

After consideration of these priorities, applicants are selected on a first-come, first-served basis. Financial assistance is provided in the form of either a deferred payment loan that is forgiven after ten years or, to non-senior homeowners with incomes toward the higher end of the eligible income range, an amortizing loan requiring repayment. Funding generated by repayments to the housing rehabilitation program becomes available for future loans.

PROJECT JUSTIFICATION:

On average, houses need major repairs every 20-30 years (i.e. new roofs, new heating and cooling systems and/or upgrades to plumbing and electrical systems). Because of Cary's rapid growth over the last 30 years, much of Cary's housing stock is of the same age. Over sixty-five percent of Cary's homes are now approaching an age where they are going to need major rehabilitation or repair in the next few years. At the same time, Cary's population is aging, and many older Cary residents may be on fixed incomes and unable to make needed home repairs. Without programs such as the Housing Rehabilitation Program, the condition of Cary's housing stock has the potential to significantly decline.

PROJECT LOCATION:

This program is open to owner-occupied housing throughout the Town of Cary that meets the eligibility requirements noted above.

E. GENERAL GOVERNMENT

PROJECT TITLE: Facility Painting Interior and Exterior

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$90,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project supports a planned interior and exterior painting program for Town facilities. The \$90,000 appropriated in FY 2019 provides for painting of comfort stations located at Town park facilities.

PROJECT JUSTIFICATION:

Quality care of painted surfaces is an important component of a sound facilities maintenance program. The correct type of paint, properly applied, provides an attractive environment, preserves the useful life of building components and aids in housekeeping. The useful life of painted surfaces varies widely based on how the facility is programmed. Painted surfaces should be evaluated every five years with an expectation of repainting every six to eight years.

PROJECT LOCATION:

This project will occur at various Town facilities as needed.

F. GENERAL GOVERNMENT

PROJECT TITLE: Fleet Management – Service Vehicle/Response

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$200,000

FIRST YEAR ESTIMATED OPERATING COSTS: \$1,000

PROJECT DESCRIPTION:

This project provides for the purchase of a medium / heavy field service response truck equipped with a service body, crane, welder and air compressor. The \$200,000 FY 2019 appropriation fully funds the vehicle and all assigned tools and equipment.

PROJECT JUSTIFICATION:

The Fleet Management division will use this truck to provide service to all Town vehicles and equipment either in the field or at remote locations minimizing equipment down-time and extensive towing/maintenance cost for services that could easily be addressed in the field. Being able to respond to service calls at specific sites will also reduce heavy equipment down-time as Fleet Management staff can perform repairs on location and return equipment to service.

PROJECT LOCATION:

There is no specific location associated with this project.

G. GENERAL GOVERNMENT

PROJECT TITLE: Heavy Equipment Replacement

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$850,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project supports a "pay-as-you-go" funding strategy that annually sets aside funding necessary for the replacement of heavy equipment.

PROJECT JUSTIFICATION:

The Town's Fleet Management staff evaluates existing heavy equipment annually and recommends replacement for equipment that has met its life expectancy based on years, hours, maintenance and repair. Replacements are identified according to factors such as schedule, useful life expectancy, repair history and condition review.

PROJECT LOCATION:

There is no specific location associated with this project.

H. GENERAL GOVERNMENT

PROJECT TITLE: Historic Preservation Implementation Activities

RESPONSIBLE DEPARTMENT: Planning

PROJECT FUNDING: \$10,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project supports several low-cost implementation activities outlined in the Historic Resources Master Plan adopted by Council on May 27, 2010. Typical activities include expenses associated with obtaining Landmark or National Register designation, relocation of historic properties under threat of demolition, payment for historic façade easements and similar activities.

PROJECT JUSTIFICATION:

The Historic Resources Master Plan recommends establishing an incentive program supporting demolition delays and providing preservation incentives for the most significant of the Town's historic structures (buildings constructed prior to 1960).

PROJECT LOCATION:

This project will occur at various locations as the need arises.

I. GENERAL GOVERNMENT

PROJECT TITLE: Storm Drainage Project – Private Assistance

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$550,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

The Storm Drainage - Private Assistance project is a program through which private property owners may petition the Town for assistance in mitigating qualifying storm drainage issues on private property. Eligible assistance requests must be from Town of Cary property owners who have suffered structural flooding or major stream erosion due to storm drainage. Benefited property owners enter into an agreement with the Town prior to construction agreeing to pay for 50% of the project construction costs. The property owner must then pay this proportionate share in installments with the initial payment being due prior to beginning construction.

PROJECT JUSTIFICATION:

This project is the result of the Town's storm drainage Policy Statement #35 enacted by Town Council in May 2005 and revised on October 30, 2014. Benefits of this project include the ability to:

- reduce or eliminate risk to citizen safety due to stormwater issues
- establish open space
- improve water quality
- reduce flooding

PROJECT LOCATION:

Exact locations for this project are undetermined at this time.

J. GENERAL GOVERNMENT

PROJECT TITLE: Storm Drainage Project – Town Properties

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$600,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

The Storm Drainage – Town Properties project focuses on improving the storm drainage system in street rights of way and on Town properties. This program includes addressing undersized or broken culverts/storm drain pipes, flooding resulting from improperly sized culverts, broken storm drain pipes as well as a variety of issues encountered due to stormwater infrastructure impacting the Town right-of-way, other public property or private property adjacent to the Town maintained storm drainage system.

PROJECT JUSTIFICATION:

Potential drainage improvement sites on Town properties are analyzed and prioritized annually. Town Council reviews and approves a list of improvement sites to be addressed each year using available funds from this capital project. This project is the result of storm drainage Policy Statement #146 enacted by Town Council in May 2005 and revised on October 30, 2014. Benefits of this project include the ability to:

- stop structural flooding resulting from inadequate or malfunctioning Town infrastructure
- reduce the risk of flood waters overtopping roads at culvert crossings
- upgrade infrastructure to current standards
- capture water from roadways prior to it causing structural flooding

PROJECT LOCATION:

Exact locations for this project are undetermined at this time.

K. GENERAL GOVERNMENT

PROJECT TITLE: Stormwater Condition Assessment and Rehabilitation Program

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$700,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

The Town of Cary's stormwater infrastructure database indicates there are approximately 22 miles of stormwater pipe over 50 years old, of which roughly 74% are in the Town's right of way. This project funds systematic testing and evaluation of the Town's culvert infrastructure.

PROJECT JUSTIFICATION:

A general condition assessment of these culverts with respect to their geographic location, age, capacity analysis and evaluation of their remaining service life will enable staff to plan for the systematic replacement/rehabilitation of infrastructure utilizing rehabilitation technologies prior to structure failure.

PROJECT LOCATION:

This condition assessment will focus on the Town's entire stormwater management system.

L. GENERAL GOVERNMENT

PROJECT TITLE: Technology Implementation - Salesforce

RESPONSIBLE DEPARTMENT: Information Technology

PROJECT FUNDING: \$1,200,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the implementation of the Salesforce customer relationship management technology platform which is the central source of information management supporting Town functions. The \$1.2 million FY 2019 appropriation provides remaining funds needed for platform implementation.

PROJECT JUSTIFICATION:

Salesforce supports many functions within the Town, but most notably, it is the backbone of the Town's 311 Call Center and will be utilized to manage the Town's PRCR programming registration process among other uses.

PROJECT LOCATION:

The software applications replaced through this project will serve various functions within the Town of Cary as needed.

M. GENERAL GOVERNMENT

PROJECT TITLE: Upgrade Pedestrian Crossings (Relocation of Push Buttons)

RESPONSIBLE DEPARTMENT: Transportation & Facilities

PROJECT FUNDING: \$30,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the phased installation of pedestrian crossing improvements at forty signalized intersections within Cary that are not within ADA guidelines. Total project cost is estimated at \$150,000. The \$120,000 appropriated through FY 2018 provides for the first four phases of relocations totaling 32 crossings. The \$30,000 funding provided in FY 2019 addresses the Town's remaining eight pedestrian crossings.

PROJECT JUSTIFICATION:

The traditional push buttons historically installed at pedestrian crossings are often not accessible for people in wheelchairs. Staff has identified forty Town of Cary intersections that need concrete pad installations or relocation of pedestrian push buttons. Staff plans to upgrade eight intersections per year for five years bringing all of Cary's pedestrian crossings in compliance with ADA requirements.

PROJECT LOCATION:

This project will occur at various intersections throughout the Town as identified by staff evaluation.

FISCAL YEAR 2019 GENERAL CAPITAL IMPROVEMENTS

DOWNTOWN CAPITAL IMPROVEMENTS FUND

If utilizing this document in PDF, click on any item below to link to that information.

A.	\$350,000	DT - Downtown Business Improvement District
B.	500,000	DT - Downtown Improvements
	\$ 850,000	Total

In the following individual project description pages, the estimated personnel, operating and maintenance impacts are provided to show a more comprehensive view of each project. Some projects will be completed mid-year; the impact shown is for the first full year after the project is complete. Any impact that begins after FY 2019 has been adjusted for inflation in the outer years.

Inflation is conservatively factored in at 5% per year. Some projects do not show annual impacts although there may be minor maintenance investments at various intervals after project completion.

A. DOWNTOWN

PROJECT TITLE: Downtown Business Improvement District

RESPONSIBLE DEPARTMENT: Economic Development

PROJECT FUNDING: \$350,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

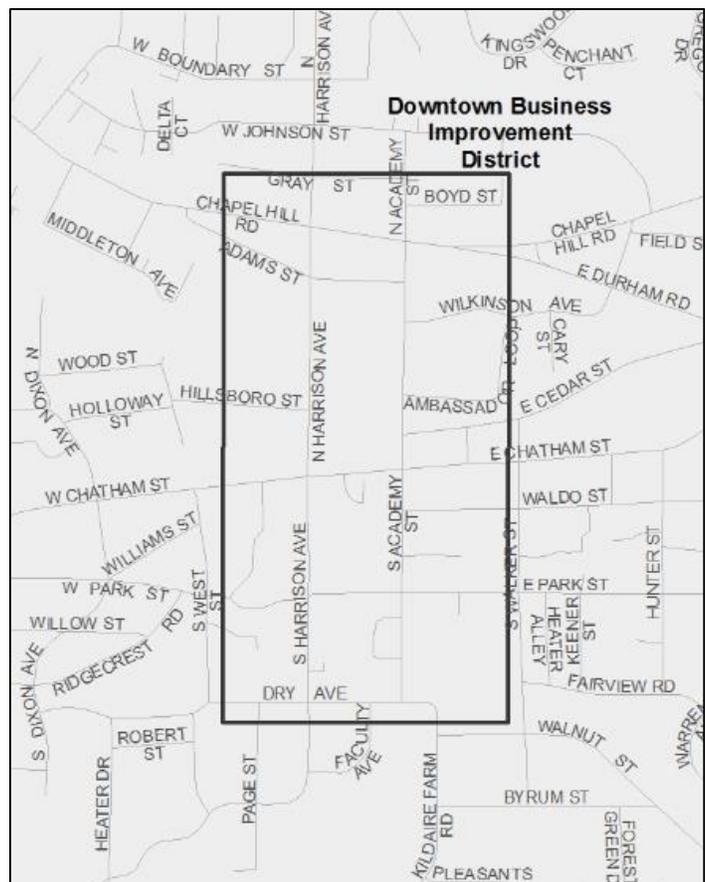
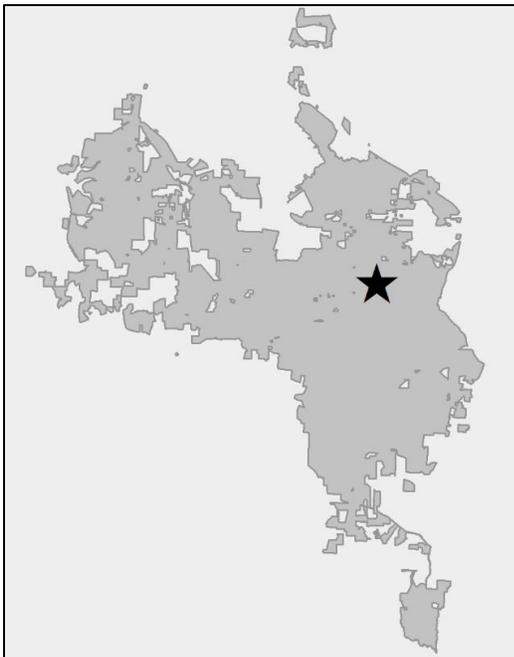
PROJECT DESCRIPTION:

Town Council approved the creation of a Downtown Business Improvement District on June 28, 2012 to encourage downtown redevelopment. Appropriations through FY 2018 total \$700,399. The \$350,000 FY 2019 appropriation brings total project appropriations to \$1,050,399.

PROJECT JUSTIFICATION:

To advance the timing of potential private investment in the downtown core, the BID was established to mitigate development fees for new private development in the downtown area.

PROJECT LOCATION:



B. DOWNTOWN

PROJECT TITLE: Downtown Improvements

RESPONSIBLE DEPARTMENT: Economic Development

PROJECT FUNDING: \$500,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

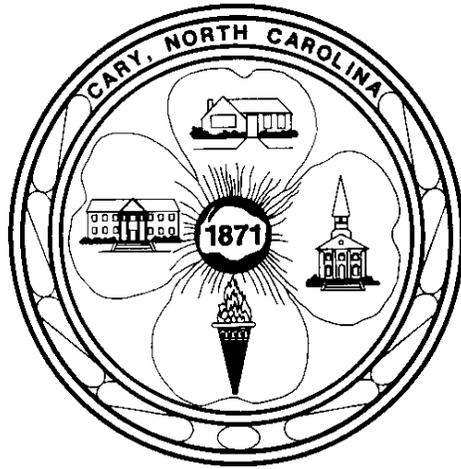
The \$500,000 FY 2019 appropriation provides a dedicated amount of funding for implementation of impactful and visible improvements to the downtown area. Specific areas to be improved within the downtown area are to be determined.

PROJECT JUSTIFICATION:

The Town of Cary is committed to bringing more people and new investments to the downtown area. Infrastructure and other physical improvements are one way to help achieve this goal.

PROJECT LOCATION:

The exact locations have not yet been determined by staff.



TOWN OF GARY CAPITAL IMPROVEMENTS BUDGET AND TEN YEAR PLAN

Project Category and Type	Project Name	Project Total	Appropriated Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024 to FY 2029
DOWNTOWN									
Special Projects									
	DT - Business Improvement District	1,050,399	700,399	350,000	-	-	-	-	-
	DT - DOWNTOWN IMPROVEMENTS	3,228,412	2,103,412	500,000	-	-	-	625,000	-
	Total of Special Projects	4,278,811	2,803,811	850,000	-	-	-	625,000	-
	Total of ALL DOWNTOWN	4,278,811	2,803,811	850,000	-	-	-	625,000	-
FIRE									
Equipment									
	Self Contained Breathing Apparatus (SCBA) Replacement	2,000,000	-	-	-	2,000,000	-	-	-
	Total of Equipment	2,000,000	-	-	-	2,000,000	-	-	-
	Fire Apparatus	4,150,000	-	2,750,000	1,400,000	-	-	1,534,000	2,554,500
	Aerial Ladder Replacement	4,150,000	-	2,750,000	1,400,000	-	-	1,534,000	2,554,500
	Fire Pumper Replacement	4,836,000	-	-	-	-	747,500	-	-
	Fire Station 10 Pumper (O'Kelly Chapel Rd)	800,000	-	-	-	800,000	-	-	-
	Fire Station 11 Pumper (White Oak Church Rd.)	882,000	-	-	-	-	-	-	882,000
	Fire Station 12 Pumper (West Lake/ Middle Creek)	899,000	-	-	-	-	-	-	899,000
	Rescue Truck Replacement	1,263,500	-	-	-	-	-	-	1,263,500
	Total of Fire Apparatus	12,830,500	-	2,750,000	1,400,000	800,000	747,500	1,534,000	5,599,000
	Special Facilities	31,929,230	-	-	-	-	-	-	31,929,230
	Regional Public Safety Training Center	31,929,230	-	-	-	-	-	-	31,929,230
	Total of Special Facilities	31,929,230	-	-	-	-	-	-	31,929,230
	Special Projects	260,400	-	-	-	-	-	-	260,400
	Thermal Imaging Camera Replacement	260,400	-	-	-	-	-	-	260,400
	Total Special Projects	260,400	-	-	-	-	-	-	260,400
	Stations with Pumpers	10,198,560	925,000	-	750,000	8,523,560	-	-	-
	Fire Station 10 (O'Kelly Chapel Rd.)	12,823,915	800,000	-	-	-	-	-	12,023,915
	Fire Station 11 (White Oak Church Rd.)	12,315,457	-	-	-	-	-	-	12,315,457
	Fire Station 12 (West Lake/ Middle Creek)	12,171,560	-	-	-	-	-	-	12,171,560
	Fire Station 13 (Lewter Shop Rd. @ 751)	12,713,394	-	-	-	-	-	-	12,713,394
	Fire Station 14 (RDU/Pleasant Grove Ch. Rd.)	12,293,360	-	-	-	-	-	-	12,293,360
	Fire Station 15 (Ernest Jones Rd. & Mt. Pisgah Ch. Rd.)	72,516,246	1,725,000	-	750,000	8,523,560	-	-	61,517,686
	Total Stations with Pumpers	119,536,376	1,725,000	2,750,000	2,150,000	11,323,560	747,500	1,534,000	99,306,316
	Total of ALL FIRE	18,505,060	-	-	-	-	-	-	117,811,376
	Total of Project Category FYS 2019 - 2023	117,811,376	-	-	-	-	-	-	117,811,376

TOWN OF GARY CAPITAL IMPROVEMENTS BUDGET AND TEN YEAR PLAN

Project Category and Type	Project Name	Project Total	Appropriated Through FY 2018				FY 2020	FY 2021	FY 2022	FY 2023	FY 2024 to FY 2029
			FY 2019	FY 2018	FY 2017	FY 2016					
GENERAL GOVERNMENT											
Equipment											
	Fleet Management - Service Vehicle/Response	200,000	-	-	200,000	-	-	-	-	-	
	Heavy Duty Equipment Replacement - General	7,400,000	2,000,000	850,000	600,000	600,000	600,000	600,000	600,000	2,100,000	
	Sanitation and Recycling Truck Replacement	30,590,965	16,290,965	-	1,000,000	1,000,000	1,000,000	500,000	500,000	10,800,000	
	Total Equipment	38,190,965	18,290,965	1,050,000	1,650,000	1,600,000	1,600,000	1,100,000	1,100,000	12,900,000	
Major Maintenance											
	ADA Improvements - Town Facilities	10,165,350	335,350	500,000	500,000	500,000	-	350,000	-	8,480,000	
	Facility Painting Interior and Exterior	1,050,000	-	90,000	85,000	100,000	85,000	100,000	115,000	575,000	
	HVAC Replacements and Major Maintenance	1,607,800	-	-	70,000	90,000	20,000	90,000	187,800	1,240,000	
	Parking Lot Resurfacing and Renovations	1,417,000	-	-	115,000	-	-	80,000	142,000	1,080,000	
	Roof Assessment and Rehabilitation Program	4,180,000	1,170,000	-	420,000	-	-	-	330,000	2,260,000	
	Upgrade Pedestrian Crossings (Relocation of Push Buttons)	150,000	120,000	30,000	-	-	-	-	-	-	
	Total Major Maintenance	18,570,150	1,625,350	620,000	1,190,000	105,000	105,000	620,000	774,800	13,635,000	
Planning											
	AH - Downtown Rehab and Façade Improvement Program	993,591	393,591	100,000	50,000	50,000	50,000	50,000	50,000	300,000	
	AH - Minimum Housing Demolition	512,000	99,500	25,000	-	37,500	37,500	37,500	37,500	275,000	
	AH - Owner-Occupied Housing Rehabilitation Program	4,265,211	965,211	300,000	300,000	300,000	300,000	300,000	300,000	1,800,000	
	Historic Preservation Implementation Activities	406,006	46,000	10,000	35,000	35,000	35,000	35,000	35,000	210,000	
	Total Planning	6,176,808	1,504,302	435,000	385,000	422,500	422,500	422,500	422,500	2,585,000	
Special Facilities											
	911/Emergency Communications Back-Up Center	5,941,500	-	-	817,500	-	5,124,000	-	-	-	
	Evidence Room Expansion or Relocation	6,200,000	2,200,000	-	4,000,000	-	-	-	-	-	
	Western Cary Police Station	10,255,000	-	-	-	-	-	-	-	10,255,000	
	Total Special Facilities	22,396,500	2,200,000	-	4,817,500	-	5,124,000	-	-	10,255,000	
Special Facilities for Operations											
	USA Facility Maintenance Hub	1,200,000	-	-	-	-	-	-	-	1,200,000	
	West District Facility	7,800,000	-	-	-	-	-	-	-	7,800,000	
	Total Special Facilities for Operations	9,000,000	-	-	-	-	-	-	-	9,000,000	
Special Projects											
	Aerial Topographic Mapping	700,000	300,000	-	-	-	-	-	-	400,000	
	Historic Town Facility Preservation	5,130,000	1,000,000	-	-	-	-	-	-	4,130,000	
	Jordan Lake Retrofits - Stormwater Related	2,250,000	-	-	-	100,000	-	100,000	350,000	1,800,000	
	Office Space Renovations	2,000,000	-	-	-	-	-	-	-	2,000,000	
	Relamping Town Facilities	225,000	225,000	-	-	-	-	-	-	-	
	Technology Implementation - Salesforce	2,000,000	800,000	1,200,000	-	-	-	-	-	-	
	Total Special Projects	12,305,000	2,325,000	1,200,000	-	100,000	-	100,000	350,000	8,330,000	
Storm Drainage											
	Storm Drainage Project - Private Assistance	4,450,534	300,534	550,000	300,000	300,000	-	300,000	-	3,000,000	

TOWN OF CARY CAPITAL IMPROVEMENTS BUDGET AND TEN YEAR PLAN

Project Category and Type	Project Name	Project Total	Appropriated Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024 to FY 2029
	Storm Drainage Project - Town Properties	5,370,819	570,819	600,000	300,000	-	300,000	-	3,600,000
	Stormwater Condition Assessment and Rehabilitation Program	4,850,000	-	700,000	650,000	-	500,000	-	3,000,000
	Total Storm Drainage	14,671,353	871,353	1,850,000	1,250,000	-	1,100,000	-	9,600,000
	Total of ALL GENERAL GOVERNMENT	121,310,776	26,816,970	5,155,000	9,292,500	7,251,500	3,842,500	2,647,306	66,305,000

Total of Project Category FYS 2019 - 2023 28,188,806
 Total of Project Category Fys 2019 - 2029 94,493,806

PARKS, RECREATION AND CULTURAL RESOURCES

Community Centers	Project Name	Project Total	Appropriated Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024 to FY 2029
	Herb Young Community Center Expansion	8,155,000	-	-	-	-	-	-	8,155,000
	Western Cary Community Facility	17,500,000	-	-	1,500,000	15,000,000	1,000,000	-	-
	Total Community Centers	25,655,000	-	-	1,500,000	15,000,000	1,000,000	-	8,155,000

Community Projects	Project Name	Project Total	Appropriated Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024 to FY 2029
	Coronado Village Due Diligence	1,440,000	-	-	150,000	150,000	-	-	1,140,000
	Total Community Projects	1,440,000	-	-	150,000	150,000	-	-	1,140,000

Greenways

American Tobacco Trail - O'Kelly Grade Separation	3,305,000	-	-	-	-	-	-	-	3,305,000
Annie Jones Greenway Improvements	550,000	-	-	-	-	-	-	-	550,000
Batchelor Branch Greenway - Phases II and III	4,726,000	-	-	-	201,000	324,000	-	-	4,201,000
Black Creek Greenway - Phases I, II and V	5,650,000	4,650,000	-	-	-	1,000,000	-	-	-
Camp Branch (Churchill Estates) Greenway	3,200,000	-	-	-	-	-	-	-	3,200,000
Crabtree Creek Greenway - Bond Park Segment and High House SST	4,535,050	-	-	-	-	-	-	-	4,535,050
Dutchman's Branch Greenway - Phase II	1,500,000	-	-	-	-	-	350,000	-	1,150,000
Greenwood Circle Greenway (Walnut Street Park)	1,400,000	-	-	-	-	-	-	-	1,400,000
Hatcher Grove Greenway	12,761,250	-	-	-	-	-	-	-	12,761,250
Higgins Greenway - Maynard to Downtown	11,174,050	200,000	3,100,000	-	-	-	-	-	7,874,050
Hinshaw Greenway Renovation	1,700,000	200,000	-	-	-	-	1,500,000	-	-
Irongate Greenway	7,869,750	-	-	-	-	-	-	-	7,869,750
Kit Creek Greenway	4,200,000	-	-	-	-	-	-	-	4,200,000
O'Kelly Chapel Road Street-Side Trail	1,450,000	-	-	-	-	-	-	-	1,450,000
Panther Creek Greenway(Cary Park Lake to Yates Store Road)	4,124,050	-	-	-	-	-	-	-	4,124,050
Piney Plains Greenway - Phase II	2,600,000	-	-	-	-	400,000	-	-	2,200,000
Speight Branch Greenway - Phase II	3,600,000	-	-	-	-	-	-	-	3,600,000
Swift Creek Greenway (From Bond Park to Laura Duncan Drive)	4,000,000	-	-	-	-	-	-	500,000	3,500,000
Swift Creek Greenway (Lake Pine Drive to Regency Parkway)	15,000,000	-	-	-	4,000,000	-	11,000,000	-	-
White Oak Creek Greenway - Davis Drive Grade Separation	6,250,000	-	-	-	-	-	-	-	6,250,000
White Oak Creek Greenway Trailhead	535,000	185,000	-	-	-	-	-	-	-
Total Greenways	100,130,150	5,235,000	3,100,000	4,201,000	4,201,000	2,074,000	12,850,000	500,000	72,170,150

TOWN OF GARY CAPITAL IMPROVEMENTS BUDGET AND TEN YEAR PLAN

Project Category and Type	Project Name	Project Total	Appropriated Through FY 2018					FY 2024 to FY 2029
			FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	
Major Maintenance								
	Athletic Field Bleacher Replacement	324,000	-	-	48,000	48,000	48,000	180,000
	Athletic Field Fencing Amenities Replacement (Windscreen, Safety Cap, Padding, Netting)	1,059,500	125,000	-	80,000	97,500	250,000	507,000
	Athletic Field Fencing Repair / Replacement	1,079,000	88,000	50,000	105,000	95,000	110,000	631,000
	Athletic Field Lighting Replacement	2,110,000	440,000	-	665,000	-	-	1,005,000
	DT - Downtown Park Fountain Maintenance	48,000	-	-	-	-	-	48,000
	Greenway Pedestrian Structure Repair	1,971,000	50,000	100,000	100,000	100,000	171,000	1,450,000
	Greenway Resurfacing	4,585,000	320,000	520,000	340,000	-	500,000	2,905,000
	Indoor Athletic Court Resurfacing	200,000	-	-	-	40,000	40,000	120,000
	Internal Roads Resurfacing	690,000	-	-	-	-	-	690,000
	Playground Surface Repairs/Replacement	754,500	110,500	85,000	-	63,000	-	496,000
	Professional Level Sand Based Athletic Field Renovation	3,800,000	-	-	-	-	550,000	3,250,000
	Sports Turf Field Replacement	5,000,000	-	-	-	-	-	5,000,000
	Tennis Court Fencing Repair / Replacement	778,500	125,000	-	137,500	-	80,000	436,000
	Tennis Court Renovations	1,584,200	173,000	160,000	80,000	-	187,200	984,000
	Total Major Maintenance	23,983,700	1,431,500	915,000	1,555,500	443,500	1,936,200	17,702,000
Parks								
	Carpenter Fire Station Neighborhood Park	6,150,000	850,000	5,300,000	-	-	-	-
	Eastern Gateway Park	7,200,000	-	-	-	-	-	7,200,000
	Lake Grove Neighborhood Park	8,300,000	-	-	-	600,000	-	7,700,000
	Lexie Lane Neighborhood Park Redevelopment	3,200,000	-	-	-	-	-	3,200,000
	McCrimmon Neighborhood Park	4,600,000	600,000	4,000,000	-	-	-	-
	Middle Creek School/Park Improvements	12,400,000	-	-	-	-	-	12,400,000
	Mills Park - Future Phases	9,362,000	-	-	400,000	3,662,000	-	5,300,000
	Roberts Road Community Park	11,800,000	-	-	-	-	-	11,800,000
	Tryon Road Neighborhood Park	4,600,000	-	-	-	-	-	4,600,000
	Total Parks	67,612,000	1,450,000	9,300,000	400,000	4,262,000	-	52,200,000
Public Art								
	Public Art - Playground Surface Repairs/Replacement	87,000	-	-	25,000	-	-	62,000
	Public Art - American Tobacco Trail - O'Kelly Grade Separation	90,000	-	-	-	-	-	90,000
	Public Art - Carpenter Fire Station Neighborhood Park	75,000	10,000	65,000	-	-	-	-
	Public Art - Crabtree Creek Greenway - Bond Park Segment and High House Street-side Trail	90,000	-	-	-	-	-	90,000
	Public Art - DT-Downtown Remarkable Destination	2,730,000	-	-	-	-	-	2,730,000
	Public Art - Eastern Gateway Park	144,000	-	-	-	-	-	144,000
	Public Art - Higgins Greenway - Phase III - Maynard to Downtown	190,000	50,000	-	-	-	-	140,000
	Public Art - McCrimmon Neighborhood Park	75,000	10,000	65,000	-	-	-	-
	Public Art - Mills Park - Future Phases	240,000	-	20,000	100,000	-	-	120,000
	Public Art - Panther Creek Greenway(Cary Park Lake to Yates Store Road)	85,000	-	-	-	-	-	85,000
	Public Art - Railroad Bridge Enhancements (NCDOT Project P-5708) at Harrison Ave. - NCDOT Reimbursement	400,000	-	-	-	-	-	400,000
	Public Art - Swift Creek Greenway (From Bond Park to Laura Duncan Drive)	80,000	-	-	-	-	20,000	60,000

TOWN OF CARY CAPITAL IMPROVEMENTS BUDGET AND TEN YEAR PLAN

Project Category and Type	Project Name	Project Total	Appropriated Through FY 2018					FY 2024 to FY 2029
			FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	
	Public Art - Swift Creek Greenway (Lake Pine Drive to Regency Parkway)	240,000	-	40,000	-	200,000	-	
	Public Art - Tryon Road Neighborhood Park	100,000	-	-	-	-	100,000	
	Public Art - Western Cary Community Facility	400,000	50,000	-	350,000	-	-	
	Public Art - White Oak Creek Greenway - Davis Drive Grade Separation	125,000	-	-	-	-	125,000	
	Total Public Art	5,151,000	100,000	170,000	395,000	300,000	4,146,000	
Renovations - Park and Greenway								
	Annie Jones Park and Dunham Park Tennis Court and Park Improvements	2,900,000	200,000	1,050,000	1,050,000	-	600,000	
	Godbold Park Tennis Courts, Restroom & Playground Renovation	2,025,000	-	-	-	225,000	1,800,000	
	MacDonald Woods Park Improvements - Phase II	625,000	-	-	-	-	625,000	
	Middle Creek Tennis Court Replacement	1,150,000	-	-	-	150,000	1,000,000	
	Park and Greenway Renovations	7,527,620	365,000	330,000	400,000	650,000	5,225,000	
	Play Area Renovations	3,210,000	-	500,000	-	360,000	2,350,000	
	PRCR Facility Improvements	6,015,000	215,000	-	-	-	5,800,000	
	Restroom Replacement	750,000	-	-	-	350,000	400,000	
	Sertoma Amphitheater Improvements	700,000	200,000	-	-	-	500,000	
	Sports Turf Field Development	6,840,000	-	-	-	-	6,840,000	
	Thomas Brooks Park Field Drainage	1,500,000	500,000	-	-	-	-	
	Total Renovations - Park and Greenway	33,242,620	1,400,000	1,880,000	1,450,000	1,235,000	25,140,000	
Special Facilities								
	Cary Tennis Park Court Renovations & Expansion	14,985,000	1,650,000	-	-	-	13,335,000	
	Koka Booth Amphitheatre Improvements	1,195,000	-	350,000	245,000	350,000	250,000	
	Skate Park Improvements	4,270,000	-	-	-	-	4,270,000	
	USA/Brooks Park Improvements	13,530,000	-	-	-	-	13,530,000	
	WakeMed Soccer Park Facility Improvements - Interlocal Small Projects	1,400,000	-	1,400,000	-	-	-	
	WakeMed Soccer Park Improvements	2,690,000	-	-	-	-	2,690,000	
	Western Cary Disc Golf Course	120,000	50,000	70,000	-	-	-	
	Total Special Facilities	38,190,000	1,700,000	1,820,000	245,000	350,000	34,075,000	
Special Projects								
	DT - Downtown Park - Future Phases	36,000,000	-	-	-	-	30,000,000	
	Park, Greenway and Facility Sign Plan Implementation	705,000	445,000	-	-	50,000	210,000	
	Total Special Projects	36,705,000	445,000	-	-	50,000	30,210,000	
	Total of ALL PARKS, RECREATION AND CULTURAL RESOURCES	332,109,470	10,250,000	7,531,500	21,269,500	20,490,500	244,938,150	
Total of Project Category FYS 2019 - 2023								
Total of Project Category FYS 2019 - 2029								
SEWER								
Equipment								
	Heavy Duty Equipment Replacement - Sewer	4,850,000	600,000	700,000	350,000	350,000	1,800,000	
	Total Equipment	4,850,000	600,000	700,000	350,000	350,000	1,800,000	

TOWN OF CARY CAPITAL IMPROVEMENTS BUDGET AND TEN YEAR PLAN

Project Category and Type	Project Name	Project Total	Appropriated Through FY 2018						FY 2024 to FY 2029
			FY 2019	FY 2020	FY 2021	FY 2022	FY 2023		
Major Maintenance									
	ADA Improvements - Sewer Treatment Facilities	1,050,000	-	-	-	-	-	-	1,050,000
	Roof Assessments and Rehab - Sewer	1,930,000	75,000	200,000	-	-	-	125,000	1,530,000
	Total Major Maintenance	2,980,000	75,000	200,000	-	-	-	125,000	2,580,000
Pump Stations and Force Mains									
	Aviation Pump Station Upgrade	3,100,000	-	-	-	-	-	-	3,100,000
	Bells Lake Road Pump Station, Interceptor, and Force Main	3,842,950	-	-	-	-	-	-	3,842,950
	Dutchman's Branch Regional Pump Station, Force Main and Interceptor	4,800,000	800,000	-	-	-	-	-	4,000,000
	Green Level Sewer Interceptor Odor Control Improvements	600,000	600,000	-	-	-	-	-	-
	KCPS and MBRPS Force Main Parallel along Green Level Church Road	2,800,000	800,000	2,000,000	-	-	-	-	-
	Morris Branch Pump Station Improvements	150,000	-	-	-	-	-	150,000	-
	Reedy Creek Regional Pump Station Force Main, Interceptor and Pump Station Eliminations	7,500,000	-	-	-	-	-	-	7,500,000
	Rocky Branch Pump Station, Interceptor, and Force Main	6,030,430	-	-	-	-	-	-	6,030,430
	Swift Creek Pump Station - Pump Replacements	1,000,000	-	-	-	-	-	-	1,000,000
	Swift Creek Pump Station Bar Screen and Fence Improvements	575,000	-	-	-	-	-	575,000	-
	Swift Creek Pump Station Improvements	2,500,000	-	-	-	-	-	-	2,500,000
	Upper Crabtree Creek Pump Station and Force Main	21,080,000	4,180,000	-	-	-	-	-	16,900,000
	Walnut Creek Pump Station Improvements	1,500,000	-	-	-	-	-	-	1,500,000
	West Cary Pump Station Improvements - Pump Rebuild and Odor Control Media Replacement	450,000	-	-	-	-	-	-	450,000
	West Cary Pump Station Trash Dumpster Enclosure	75,000	75,000	-	-	-	-	-	-
	Western Wake Water Reclamation Facility - Beaver Creek Pump Station Bar Screen Addition and Trash Dumpster Enclosure	825,000	75,000	750,000	-	-	-	-	-
	Western Wake Water Reclamation Facility - Beaver Creek Pump Station Improvements - Pump Rebuild and Odor Control Media Replacement	500,000	-	-	-	-	-	-	500,000
	Winding Pine Regional Pump Station, Gravity Sewer & Force Main	13,300,000	11,000,000	2,300,000	-	-	-	-	-
	Total Pump Stations and Force Mains	70,628,380	12,550,000	750,000	-	-	-	725,000	47,323,380
Reclaimed Water									
	Extend Reclaimed Water Mains	2,141,286	147,746	155,133	162,889	171,033	179,588	-	1,324,897
	Morrisville Carpenter Road Reclaimed Water Line	914,000	914,000	-	-	-	-	-	-
	North Cary Water Reclamation Facility - Reclaimed Water Pumping/Chemical Feed System Replacement	250,000	-	-	-	-	-	-	250,000
	Reclaimed Water Line Oversizings	2,451,115	175,849	184,642	193,874	200,000	206,000	-	1,490,750
	Reclaimed Water System Master Plan Update	250,000	-	-	-	-	250,000	-	-
	South Cary Water Reclamation Facility - Reclaimed Water On-site Distribution Piping Replacement	1,000,000	-	-	-	-	-	-	1,000,000
	Total Reclaimed Water	7,006,401	1,237,595	339,775	356,763	371,033	635,588	-	4,065,647

TOWN OF CARY CAPITAL IMPROVEMENTS BUDGET AND TEN YEAR PLAN

Project Category and Type	Project Name	Project Total	Appropriated Through FY 2018					FY 2024 to FY 2029
			FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	
Sewer System Repair/Rehabilitation								
	Infrastructure GIS Asset Data - Wastewater	200,000	-	200,000	-	-	-	-
	Sewer System Repair/Rehabilitation	37,117,524	-	500,000	6,171,865	6,808,000	2,174,000	14,681,000
	Total Sewer System Repair/Rehabilitation	37,317,524	-	700,000	6,171,865	6,808,000	2,174,000	14,681,000
Waste Water Collection								
	Crabtree Interceptor Parallel	6,500,000	-	-	6,500,000	-	-	-
	I-40 Pump Station Improvements	300,000	200,000	-	-	-	-	-
	Sanitary Sewer Oversizings and Related Infrastructure Acceptance Requirements	2,470,000	-	200,000	210,000	215,000	220,000	1,420,000
	Upper Swift Creek Parallel Interceptor	780,000	-	-	-	-	-	780,000
	Wastewater Pump Station Improvements	750,000	-	750,000	-	-	-	-
	Wastewater Pump Station Parallel Force Mains	16,790,000	-	2,900,000	6,500,000	-	1,300,000	6,090,000
	Total Waste Water Collection	27,590,000	200,000	3,950,000	13,210,000	215,000	2,300,000	7,510,000
Waste Water System Management								
	Biosolids and Residuals Master Plan	225,000	-	-	225,000	-	-	-
	Cleaning and Video Survey of Sewer Interceptors	8,984,500	2,884,500	500,000	500,000	500,000	500,000	3,600,000
	Force Main Easement Clearing Project - Survey and Clear	400,000	200,000	100,000	-	-	-	-
	Miscellaneous Pump Station Grinder Exchange Rebuild / Replace	1,140,000	240,000	-	200,000	-	-	700,000
	Pump Station Variable Frequency Drive (VFD) Replacements	625,000	125,000	125,000	-	125,000	-	250,000
	SCADA (Supervisory and Data Acquisition Control) at the Tier II Wastewater Pump Stations	500,000	-	500,000	-	-	-	-
	Sewer Flow Management Modeling Scenarios	700,000	450,000	250,000	-	-	-	-
	Wastewater Collection System Master Plan Update	500,000	250,000	-	-	-	250,000	-
	Wastewater System Flow Monitoring - Replace Flow Meters	131,550	-	-	-	131,550	-	-
	Total Waste Water System Management	13,206,050	4,149,500	1,475,000	1,025,000	756,550	750,000	4,550,000
Waste Water Treatment								
	North Cary Water Reclamation Facility - Alternate Treated Wastewater Discharge	500,000	-	-	-	-	-	500,000
	North Cary Water Reclamation Facility - Band Screen Repair and Replacement	900,000	150,000	-	-	-	750,000	-
	North Cary Water Reclamation Facility - Bio-Filter Media Replacement	150,000	-	-	-	-	-	150,000
	North Cary Water Reclamation Facility - Clarifier Addition	2,600,000	-	-	-	-	-	2,600,000
	North Cary Water Reclamation Facility - Clarifier Equipment Repair and Replacement	2,500,000	350,000	-	200,000	-	-	1,950,000
	North Cary Water Reclamation Facility - Ferric Tank Replacement and Improvements	100,000	-	-	-	-	100,000	-
	North Cary Water Reclamation Facility - Generator Replacements	2,500,000	-	-	-	-	-	2,500,000
	North Cary Water Reclamation Facility - Gravity Belt Thickener Pump and Grinder Repl/Rebuild	150,000	-	-	-	-	-	150,000
	North Cary Water Reclamation Facility - Grit Removal and Headworks Improvements	2,000,000	-	-	-	250,000	1,750,000	-

TOWN OF CARY CAPITAL IMPROVEMENTS BUDGET AND TEN YEAR PLAN

Project Category and Type	Project Name	Project Total	Appropriated Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024 to FY 2029
	North Cary Water Reclamation Facility - HVAC Replacements	195,000	15,000	30,000	-	-	-	-	150,000
	North Cary Water Reclamation Facility - Improvements for Continuous Three Train Operation	100,000	50,000	-	50,000	-	-	-	-
	North Cary Water Reclamation Facility - Inductively Coupled Plasma Mass Spectrometer Replacement	200,000	-	-	-	200,000	-	-	-
	North Cary Water Reclamation Facility - Influent Pump Station Screen Replacements	800,000	-	-	-	-	-	-	800,000
	North Cary Water Reclamation Facility - Mixer Replacements	1,100,000	700,000	-	-	-	-	-	400,000
	North Cary Water Reclamation Facility - Partial and Full Diffused Air System	12,820,000	7,220,000	5,600,000	-	-	-	-	-
	North Cary Water Reclamation Facility - Programmable Logic Controller Replacements	2,000,000	-	-	-	-	-	500,000	1,500,000
	North Cary Water Reclamation Facility - Return Activated Sludge Pump Replacements	250,000	-	-	-	-	-	-	250,000
	North Cary Water Reclamation Facility - Submersible Influent Pump Replacement	450,000	-	-	-	150,000	150,000	150,000	-
	North Cary Water Reclamation Facility - Tertiary Filter Cells Addition	2,100,000	-	-	-	-	-	-	2,100,000
	North Cary Water Reclamation Facility - Variable Frequency Drive Replacement	625,000	200,000	-	200,000	-	225,000	-	-
	South Cary Water Reclamation Facility - Programmable Logic Controller Replacements	500,000	-	-	-	-	500,000	-	-
	South Cary Water Reclamation Facility - Aeration Basin and Air Header Repair	275,000	275,000	-	-	-	-	-	-
	South Cary Water Reclamation Facility - Aeration Basin Blower Replacements	1,000,000	325,000	-	-	325,000	-	-	350,000
	South Cary Water Reclamation Facility - Aeration Basin Recycle Pump Replacements	240,000	80,000	80,000	80,000	-	-	-	-
	South Cary Water Reclamation Facility - Centrifuge Replacement Project	2,500,000	-	-	-	-	-	225,000	2,275,000
	South Cary Water Reclamation Facility - Clarifier Equipment Repair and Replacement	1,000,000	400,000	100,000	-	-	-	-	500,000
	South Cary Water Reclamation Facility - Generator Auto Transfer Switch Replacement	140,000	90,000	50,000	-	-	-	-	-
	South Cary Water Reclamation Facility - Generator Replacement	1,000,000	-	-	-	-	-	250,000	750,000
	South Cary Water Reclamation Facility - Gravity Belt Thickener Rebuild	400,000	150,000	-	-	-	-	-	250,000
	South Cary Water Reclamation Facility - Grit Removal System Replacement	2,500,000	-	-	-	-	-	-	2,500,000
	South Cary Water Reclamation Facility - Headworks Equipment Improvements	350,000	-	-	-	-	350,000	-	-
	South Cary Water Reclamation Facility - Inductively Coupled Plasma Mass Spectrometer Replacement	225,000	-	-	-	-	-	-	225,000
	South Cary Water Reclamation Facility - Peak Flow Management Study	650,000	150,000	-	500,000	-	-	-	-
	South Cary Water Reclamation Facility - Plant Drain Pump Station Improvements	125,000	-	125,000	-	-	-	-	-
	South Cary Water Reclamation Facility - Polishing Pond Liner Replacement	250,000	-	250,000	-	-	-	-	-

TOWN OF CARY CAPITAL IMPROVEMENTS BUDGET AND TEN YEAR PLAN

Project Category and Type	Project Name	Project Total	Appropriated Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024 to FY 2029
	South Cary Water Reclamation Facility - Potable Water Fire Hydrant & Piping	1,000,000	-	-	-	-	-	-	1,000,000
	South Cary Water Reclamation Facility - RAS/WAS Pump Station Improvements	350,000	-	-	350,000	-	-	-	-
	South Cary Water Reclamation Facility - Reclaimed Pump Station Rebuild and Replacement	225,000	-	-	-	-	-	-	225,000
	South Cary Water Reclamation Facility - Screen Replacement	500,000	-	-	-	-	-	-	500,000
	South Cary Water Reclamation Facility - Thermal Biosolids Dryer - Centrifuge Rebuild	875,000	175,000	-	-	-	300,000	-	400,000
	South Cary Water Reclamation Facility - Thermal Biosolids Dryer - Dewatered Cake Mixer Repair and Replacement	400,000	100,000	-	-	-	150,000	-	150,000
	South Cary Water Reclamation Facility - Thermal Biosolids Dryer - Dewatered Cake Pump	475,000	225,000	-	-	-	-	-	250,000
	South Cary Water Reclamation Facility - Thermal Biosolids Dryer - Induction Fan Replacement	225,000	100,000	-	-	-	-	-	125,000
	South Cary Water Reclamation Facility - Thermal Biosolids Dryer - Rotary Drum Replacement	1,450,000	1,200,000	-	-	-	-	-	250,000
	South Cary Water Reclamation Facility - Variable Frequency Drive Replacements	800,000	200,000	200,000	-	-	200,000	-	200,000
	Western Wake Water Reclamation Facility - Phase II	500,000	-	-	-	-	-	-	500,000
	Western Wake Water Reclamation Facility - Biofilter Media Replacement for Odor Control	300,000	-	-	-	-	-	-	300,000
	Western Wake Water Reclamation Facility - Carbon Replacement for Odor Control North Odor Control and Solid Handling Facility	140,000	-	-	70,000	-	-	-	70,000
	Western Wake Water Reclamation Facility - Clarifier Restoration	600,000	-	-	-	-	-	-	600,000
	Western Wake Water Reclamation Facility - Drag Conveyor Replacement	350,000	-	-	-	-	-	-	350,000
	Western Wake Water Reclamation Facility - NRCY and ARCY Pump Rebuild/Replace	375,000	-	-	-	-	-	75,000	300,000
	Western Wake Water Reclamation Facility - Rebuild Jet Aeration and Post Aeration Pumps	466,000	-	-	-	83,000	83,000	100,000	200,000
	Western Wake Water Reclamation Facility - Rebuild Mechanical Screen and Grinder	125,000	-	-	-	-	-	-	125,000
	Western Wake Water Reclamation Facility - Rebuild/Replace Mixers	422,000	-	-	-	61,000	61,000	100,000	200,000
	Total Waste Water Treatment	52,773,000	12,155,000	6,435,000	1,450,000	819,000	2,269,000	4,000,000	25,645,000
	Total of ALL SEWER	216,351,355	26,384,500	27,122,595	10,927,434	21,932,628	10,769,583	11,059,588	108,155,027

Total of Project Category FYs 2019 - 2023 81,811,828
 Total of Project Category FYs 2019 - 2029 189,966,855

TOWN OF GARY CAPITAL IMPROVEMENTS BUDGET AND TEN YEAR PLAN

Project Category and Type	Project Name	Project Total	Appropriated Through FY 2018					FY 2024 to FY 2029
			FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	
TRANSPORTATION								
Alternate Modes								
	Aviation Parkway Enhancements (NCDOT Project U-5811) - NCDOT Reimbursement	56,000	56,000	-	-	-	-	-
	Bicycle Facilities Implementation	320,000	-	25,000	25,000	30,000	30,000	185,000
	Carpenter Fire Station Road Pedestrian Improvements - NC 55 East to Good Hope Church Rd	5,000,000	-	-	-	-	-	5,000,000
	Connectivity Annual Project	500,000	-	-	-	-	-	500,000
	GoCary Bus Stop Improvements	1,911,000	895,000	1,016,000	-	-	-	-
	GoCary Bus Stop Sign Replacement	43,000	43,000	-	-	-	-	-
	GoCary Bus Stop Solar Lighting Upgrades	345,000	-	345,000	-	-	-	-
	GoCary Capital Amenities	900,000	75,000	75,000	75,000	75,000	75,000	450,000
	GoCary Downtown Multimodal Station	21,000,000	-	4,000,000	17,000,000	-	-	-
	GoCary New Customer Information Technology	1,500,000	-	-	-	1,000,000	500,000	-
	GoCary New Fare Technology	2,000,000	-	-	1,000,000	1,000,000	-	-
	GoCary Regional Operations & Maintenance Facility	11,700,000	1,000,000	10,700,000	-	-	-	-
	GoCary Transfer Center Improvements	6,000,000	-	2,000,000	2,500,000	1,500,000	-	-
	GoCary Wayfinding Signage	450,000	-	100,000	100,000	-	-	150,000
	Railroad Bridge Enhancements (NCDOT Project P-5708) at Harrison Ave. - NCDOT Reimbursement	2,500,000	-	-	-	-	-	2,500,000
	Railroad Bridge Enhancements (NCDOT Project P-5718) at NE Maynard Road - NCDOT Reimbursement	3,800,000	-	-	-	-	-	3,800,000
	Sidewalk and Pedestrian Improvements	24,750,000	-	1,750,000	1,950,000	2,050,000	2,150,000	15,000,000
	Study: Train Horn Noise	500,000	-	-	-	-	-	500,000
	Ten-Ten Road Enhancements (NCDOT Project U-5825) - NCDOT Reimbursement	-	-	-	-	-	-	-
	Transit/Transportation Studies	600,000	-	-	-	-	-	600,000
	US 64 Enhancements(NCDOT Project U-5301) - NCDOT Reimbursement	-	-	-	-	-	-	-
	Total Alternate Modes	83,875,000	2,069,000	6,966,000	5,050,000	5,255,000	2,755,000	28,685,000
Control Systems								
	School Zone Flasher Integration in the signal system	500,000	-	-	-	-	-	500,000
	Signal System - Camera Coverage Expansion	800,000	350,000	-	-	-	-	450,000
	Signal System - Fiber Extension to Northwest Cary	550,000	-	-	-	-	-	550,000
	Signal System - Upgrade Traffic Signal Controllers (Connected Vehicles)	2,000,000	-	2,000,000	-	-	-	-
	Thoroughfare Street Lights	800,000	-	200,000	-	-	300,000	300,000
	Traffic Calming	1,002,808	927,808	-	-	-	-	75,000
	Traffic Signal Changes to Flashing Yellow Arrow	550,000	-	-	-	-	-	550,000
	Traffic Signal Metal Mast Arm Conversion - Cary Glen Blvd and Green Level Church Road	280,000	-	-	-	-	-	280,000
	Traffic Signalization Projects	2,900,000	-	300,000	-	500,000	-	2,100,000
	Total Control Systems	9,382,808	1,277,808	2,200,000	300,000	500,000	300,000	4,805,000
Major Maintenance								
	Bridge Replacements	4,500,000	-	-	-	-	-	4,500,000
	Bridge/Culvert Repairs	1,000,000	-	-	100,000	-	150,000	750,000
	Old Reedy Creek Road Bridge Replacement	3,750,000	-	-	-	-	-	3,750,000

TOWN OF CARY CAPITAL IMPROVEMENTS BUDGET AND TEN YEAR PLAN

Project Category and Type	Project Name	Project Total	Appropriated Through FY 2018					FY 2024 to FY 2029
			FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	
	Railroad Grade Crossing Repairs	900,000	-	-	-	-	-	900,000
	Street Improvement Project	79,250,000	-	5,100,000	5,100,000	5,100,000	5,100,000	51,750,000
	Total Major Maintenance	89,400,000	-	7,100,000	5,200,000	5,100,000	5,250,000	61,650,000
Road Capacity								
	Buck Jones Roadway Reconfiguration	3,500,000	-	-	-	-	-	3,500,000
	Carpenter Fire Station Road Widening (NC55 to East of Cameron Pond)	10,350,000	1,100,000	-	6,100,000	-	-	-
	Carpenter Fire Station Road/CSX Rail Grade Separation	29,963,969	8,743,969	-	-	-	-	-
	Cary Parkway - Evans to Beechtree	32,000,000	-	-	-	-	-	32,000,000
	Chapel Hill Road - N. Academy to Reedy Creek	11,500,000	-	-	-	1,600,000	-	9,900,000
	Chapel Hill Road Widening - (N. Academy to NW Maynard Road)	14,300,000	-	-	-	-	-	14,300,000
	NW Maynard Road							
	Chapel Hill Road Widening - (NW Maynard Road to Morrisville ETJ)	40,000,000	-	-	-	-	-	40,000,000
	East Chatham Street Widening	9,500,000	-	-	-	-	-	9,500,000
	Green Hope School Road Widening	8,500,000	-	-	-	-	-	8,500,000
	Green Level Church Road - McCrimmon Pkwy to O'Kelly Chapel Road	5,626,500	-	-	-	-	-	5,626,500
	Green Level Church Road Widening - Morrisville Parkway to Green Level West Road	18,750,000	-	-	-	-	-	18,750,000
	Green Level Church Widening - O'Kelly Chapel Road to Kit Creek	9,858,500	-	-	-	-	-	9,858,500
	Holly Springs Road Widening - Cary Parkway to Jones Franklin Road	3,000,000	-	-	-	-	-	3,000,000
	Holly Springs Road Widening - Phase II (Cary Parkway to Penny Road)	14,500,000	-	-	-	-	-	14,500,000
	Holly Springs Road Widening - Phase III (Penny Road to Ten Ten Road)	10,000,000	-	-	-	-	-	10,000,000
	Holly Springs Road Widening - Phase IV (Ten Ten Road to Kildaire Farm Road)	17,000,000	-	-	-	-	-	17,000,000
	Intersection Improvements	9,750,000	-	550,000	1,100,000	-	-	7,000,000
	Intersection Realignment Jenks-Carpenter Road/High House Road	12,500,000	-	-	-	-	-	12,500,000
	Jenks-Carpenter Road Widening (Holt Road to High House Road)	7,500,000	-	-	-	-	-	7,500,000
	Jones-Franklin Road Widening (North Side Only)	10,500,000	-	-	-	-	-	10,500,000
	Lake Pine Drive Road Widening and Sidewalk Improvements	433,000	133,000	300,000	-	-	-	-
	Louis Stephens Road/Carpenter Upchurch Road Widening	7,850,000	-	-	-	1,100,000	-	6,750,000
	McCrimmon Parkway Extension - NC55 to Louis Stephens Drive	31,200,000	-	-	-	-	-	31,200,000
	Morrisville Parkway Extension - Phase III - NC55 to Green Level Church Road	28,535,383	16,835,383	-	-	-	-	11,700,000
	Morrisville-Carpenter Road Widening - Davis Drive to Carpenter Fire Station Road	16,000,000	-	-	-	-	-	16,000,000
	Northeast Maynard Road Rail Road Bridge	27,000,000	-	-	-	-	-	27,000,000
	O'Kelly Chapel Road Widening - NC 55 - Green Level Church Road (Developer Agreement)	6,750,000	-	-	-	-	-	6,750,000

TOWN OF CARY CAPITAL IMPROVEMENTS BUDGET AND TEN YEAR PLAN

Project Category and Type	Project Name	Project Total	Appropriated Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024 to FY 2029
	Old Apex Road Improvements - Chatham Street to Extraterritorial Jurisdiction	16,000,000	-	-	-	-	-	-	16,000,000
	Penny Road Widening - Ederlee Drive to Kildaire Farm Road	4,700,000	-	-	-	-	-	-	4,700,000
	Quinard Road (Fenton)	15,300,000	-	-	-	-	-	-	15,300,000
	Rail and Community Cohesion Impact Study - Harrison Avenue Grade Separation	15,165,000	665,000	-	-	-	-	-	14,500,000
	Reedy Creek Road Widening - Northeast Maynard Road to North Harrison Avenue	13,787,500	7,067,500	6,720,000	-	-	-	-	-
	TCAP - South Harrison Avenue Extension	9,250,000	-	-	-	-	-	-	9,250,000
	Ten Ten Widening - Holly Springs Road to West Lake Road	11,250,000	-	-	-	-	-	-	11,250,000
	Ten-Ten Road Widening - Kildaire Farm Road to Holly Springs Road	26,000,000	-	-	-	-	-	-	26,000,000
	Transportation Feasibility Studies	600,000	600,000	-	-	-	-	-	-
	Trinity Road Widening and Extension	39,000,000	-	-	-	-	-	-	39,000,000
	Walnut Street Corridor Improvements - Phase V	7,500,000	-	-	-	-	-	-	7,500,000
	West Chatham Street Widening - Old Apex Road to Old Apex Road	11,500,000	-	-	-	-	-	-	11,500,000
	Total Road Capacity	566,419,852	47,620,883	18,913,969	550,000	7,200,000	1,100,000	2,700,000	488,335,000
Special Projects									
	Spot Improvements (Based on Levels of Service, Safety and Citizen Concerns)	2,950,000	-	150,000	250,000	-	275,000	287,500	1,987,500
	Total Special Projects	2,950,000	-	150,000	250,000	-	275,000	287,500	1,987,500
Street Storm Drainage									
	Street Storm Drainage System Rehabilitation	5,348,873	398,873	850,000	350,000	350,000	350,000	350,000	2,700,000
	Total Street Storm Drainage	5,348,873	398,873	850,000	350,000	350,000	350,000	350,000	2,700,000
	Total of ALL TRANSPORTATION	757,376,533	51,366,564	36,179,969	39,645,000	17,800,000	12,580,000	11,642,500	588,162,500
	Total of Project Category FYS 2019 - 2023	117,847,469							
	Total of Project Category FYS 2019 - 2029	706,009,969							
WATER									
	Acquisition - Land								
	New Water Storage Tank Sites	2,250,000	1,000,000	-	-	1,250,000	-	-	-
	Total Acquisition - Land	2,250,000	1,000,000	-	-	1,250,000	-	-	-
Equipment									
	Cary Apex Water Treatment Facility - New Heavy Duty Equipment	270,000	-	270,000	-	-	-	-	-
	Heavy Duty Equipment Replacement - Water	2,640,000	200,000	200,000	200,000	200,000	200,000	200,000	1,440,000
	Total Equipment	2,910,000	200,000	470,000	200,000	200,000	200,000	200,000	1,440,000

TOWN OF GARY CAPITAL IMPROVEMENTS BUDGET AND TEN YEAR PLAN

Project Category and Type	Project Name	Project Total	Appropriated Through					FY 2024 to FY 2029
			FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	
Major Maintenance								
	ADA Improvements - Water Treatment Facilities	600,000	-	-	-	-	-	600,000
	Cary/Apex Water Treatment Facility - Finished Water Pump Station Roof Replacement	100,000	-	-	100,000	-	-	-
	Roof Assessments and Rehab - Water	1,610,000	-	50,000	200,000	-	-	1,300,000
	Total Major Maintenance	2,310,000	-	50,000	300,000	-	-	1,900,000
Other Water Projects								
	Aquaster Additional Infrastructure	225,000	75,000	-	75,000	-	-	75,000
	Total Other Water Projects	225,000	75,000	-	75,000	-	-	75,000
Water Lines								
	Carpenter Fire Station Road Waterline Connection	260,000	-	-	-	-	-	260,000
	Crabtree Crossing Pky Water Line Connection at Morrisville Limits	265,000	-	-	265,000	-	-	-
	Extend & Relocate Water Mains and Install Valves	8,801,310	-	801,310	800,000	800,000	800,000	4,800,000
	Frostwood Drive Water Line Connection to Cary Parkway	214,500	-	-	-	-	-	214,500
	Holt Road to Davis Drive Water Line Connection	2,340,000	1,920,000	420,000	-	-	-	-
	Horton's Creek Road Parallel Waterline	950,000	-	-	-	-	-	950,000
	Jenks Rd 30" and 42" CPZ Interconnection	650,000	-	-	650,000	-	-	-
	Jenks-Carpenter/Holt Road Water Line Reinforcement	4,428,000	175,000	-	-	-	-	-
	Kildaire Farm Road Water Line Reinforcement - Central	7,500,000	3,100,000	4,400,000	-	-	-	-
	Louis Stephens Dr Extension Water Line (U-5827)	1,100,000	-	1,100,000	-	-	-	-
	Maynard Road Water Line Reinforcement - Southwest Phase II	520,000	520,000	-	-	-	-	-
	Maynard Road Water Line Reinforcement - Southwest Phase I	5,380,000	-	-	1,380,000	4,000,000	-	-
	McCrimmon Parkway Connections	800,000	-	-	-	-	-	800,000
	McCrimmon Parkway Water Line Connector	1,250,000	-	-	-	1,250,000	-	-
	NCDOT I-5506 I-40 and Aviation Parkway Water Line Relocation	350,000	350,000	-	-	-	-	-
	NCDOT P-5201 Morrisville Parkway Rail Road Grade Separation	406,116	406,116	-	-	-	-	-
	Optimist Farm Road Water Line - West	578,000	-	578,000	-	-	-	-
	Pierce Olive Road Water Line	2,269,000	1,070,000	-	1,199,000	-	-	-
	Pleasant Grove Church Road Water Line Reinforcement	1,635,000	-	-	-	-	-	1,635,000
	Stephenson Road Water Line and Ten-Ten Rd Water Line West	700,000	-	125,000	575,000	-	-	-
	Ten-Ten/Bells Lake Road Water Line Connector	2,180,000	-	-	-	-	2,180,000	-
	Tryon Road Waterline Upsizing	1,720,000	220,000	-	-	-	-	1,500,000
	Upgrade Water Lines	79,750,000	-	5,000,000	5,000,000	6,500,000	7,000,000	48,250,000
	Wake Road Water Line	500,000	-	-	-	500,000	-	-
	Water Line Oversizings and Related Infrastructure Acceptance Requirements	2,124,000	-	168,000	176,000	185,000	195,000	200,000
	Water System - Air Release Valve Replacements	600,000	300,000	-	-	-	-	300,000
	Water System - Critical Water Line Locating and Testing	2,450,000	525,000	175,000	175,000	175,000	175,000	1,050,000
	Water System - Valve Replacements	1,250,000	-	125,000	125,000	125,000	125,000	750,000
	White Oak Church Road Water Line	2,362,500	950,000	-	-	-	-	1,412,500
	Total Water Lines	133,333,426	13,614,116	8,542,310	14,095,000	14,185,000	10,475,000	61,407,500

TOWN OF CARY CAPITAL IMPROVEMENTS BUDGET AND TEN YEAR PLAN

Project Category and Type	Project Name	Project Total	Appropriated Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024 to FY 2029
Water Storage Tanks									
	Carpenter Elevated Water Storage Tank Repainting	900,000	-	-	900,000	-	-	-	-
	Crossroads Ground Storage Tank and Booster Pump Station	9,400,000	5,600,000	-	3,800,000	-	-	-	-
	Elevated Water Storage Tank Repainting – Carpenter Tank	750,000	750,000	-	-	-	-	-	-
	Harrison Elevated Water Tank Renovation	700,000	-	-	-	-	700,000	-	-
	Kilmaine Water Storage Tank	7,750,000	7,750,000	-	-	-	-	-	-
	Plumtree Tank Modifications & Tank Repainting	2,275,000	2,275,000	-	-	-	-	-	-
	Water Storage Tank Repainting - Field Street Tank	700,000	-	-	-	-	-	-	700,000
	Water Storage Tank Repainting – Old Apex Tank	850,000	150,000	-	-	-	-	-	700,000
	Water Storage Tank Repainting - Ridgeview Tank	800,000	-	-	-	-	-	-	800,000
	Total Water Storage Tanks	24,125,000	16,525,000	-	4,700,000	-	700,000	-	2,200,000
Water System Management									
	Cary/Apex Water Treatment Facility - Security Upgrades	250,000	-	250,000	-	-	-	-	-
	Flow Metering Throughout Distribution System	500,000	-	-	-	-	-	500,000	-
	Secondary and Cumulative Impacts Master Mitigation Plan	150,000	-	-	-	-	-	-	150,000
	Water Main Condition Assessment Program	955,000	375,000	50,000	50,000	50,000	100,000	50,000	280,000
	Water Resources Master Plan	1,000,000	500,000	-	-	-	-	-	500,000
	Water System Interconnections - Mobile Pump	100,000	-	-	100,000	-	-	-	-
	Water System Master Plan	700,000	350,000	-	-	-	-	-	350,000
	Total Water System Management	3,655,000	1,225,000	300,000	150,000	50,000	100,000	550,000	1,280,000
Water Treatment									
	Cary/Apex Water Treatment Facility - Laboratory Equipment - Atomic Adsorption Unit Replacement	468,608	175,000	-	-	-	293,608	-	-
	Cary/Apex Water Treatment Facility - Laboratory Equipment - Total Organic Analyzer Replacement	77,500	-	-	-	-	-	77,500	-
	Cary/Apex Water Treatment Facility - Phase IV Expansion and Improvements From 56 to 64-MGD	92,000,000	-	-	-	-	-	-	92,000,000
	Cary/Apex Water Treatment Facility – Caustic Tank Replacements	600,000	-	-	600,000	-	-	-	-
	Cary/Apex Water Treatment Facility - Centrifuge Rebuild and Repair	600,000	-	-	-	-	-	-	600,000
	Cary/Apex Water Treatment Facility - Chemical Feed System Upgrades of Aging Equipment	200,000	-	200,000	-	-	-	-	-
	Cary/Apex Water Treatment Facility - Clearwell Baffle Replacements	750,000	-	-	-	-	-	-	750,000
	Cary/Apex Water Treatment Facility - Filter Pipe Gallery Piping Removal	150,000	150,000	-	-	-	-	-	-
	Cary/Apex Water Treatment Facility - Finished Water and Backwash Pump Replacements	500,000	-	-	-	-	-	-	500,000
	Cary/Apex Water Treatment Facility - Generator Switchgear Upgrades	250,000	-	250,000	-	-	-	-	-
	Cary/Apex Water Treatment Facility - Laboratory Information Management System	175,000	175,000	-	-	-	-	-	-

TOWN OF CARY CAPITAL IMPROVEMENTS BUDGET AND TEN YEAR PLAN

Project Category and Type	Project Name	Project Total	Appropriated Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024 to FY 2029
	Cary/Apex Water Treatment Facility - Ozone Generator Replacements	6,000,000	-	-	2,000,000	2,000,000	2,000,000	-	-
	Cary/Apex Water Treatment Facility - Process Basin Rehab/Restoration	7,000,000	4,000,000	1,000,000	2,000,000	-	-	-	-
	Cary/Apex Water Treatment Facility - Process Conversion to Ozone/Biofiltration	4,500,000	500,000	4,000,000	-	-	-	-	-
	Cary/Apex Water Treatment Facility - Raw Water Line Cleaning	1,300,000	200,000	-	-	-	-	-	1,100,000
	Cary/Apex Water Treatment Facility - Raw Water Pump Replacements	350,000	-	-	-	-	-	-	350,000
	Cary/Apex Water Treatment Facility - Raw Water Pump Station Powder Activated Carbon Feed Pump Replacement	250,000	-	-	250,000	-	-	-	-
	Cary/Apex Water Treatment Facility - Residuals Facility Polymer System	300,000	-	-	300,000	-	-	-	-
	Cary/Apex Water Treatment Facility - Residuals Facility Pump Replacements	500,000	-	-	-	-	-	-	500,000
	Cary/Apex Water Treatment Facility - Residuals Transfer Pump Replacements	400,000	400,000	-	-	-	-	-	-
	Cary/Apex Water Treatment Facility - Sodium Hypochlorite Tank Replacement	1,175,000	-	-	-	-	-	175,000	1,000,000
	Cary/Apex Water Treatment Facility - Water System Radio Software and Antennas	1,400,000	400,000	-	-	-	-	-	1,000,000
	Cary/Apex Water Treatment Plant - Phase III Expansion	78,375,000	77,500,000	875,000	-	-	-	-	-
	Raw Water Pump Station Surge Tanks	800,000	-	-	-	800,000	-	-	-
	Total Water Treatment	198,121,108	83,500,000	6,325,000	5,150,000	2,800,000	2,293,608	252,500	97,800,000
	Total of ALL WATER	366,929,534	116,139,116	15,687,310	24,670,000	18,485,000	13,768,608	12,077,000	166,102,500
	Total of Project Category FYS 2019 - 2023	84,687,918							
	Total of Project Category Fys 2019 - 2029	250,790,418							
	GRAND TOTAL ALL PROJECT CATEGORIES	1,917,892,855	235,485,961	95,276,374	104,800,934	98,062,188	62,198,691	49,099,214	1,272,969,493

GENERAL CAPITAL SUMMARY	
Total General Capital Projects FY 2019	52,466,469
Total General Capital Projects Fys 2019 - 2023	242,937,655
Total General Capital Projects Fys 2019 - 2029	1,241,649,621
UTILITY CAPITAL SUMMARY	
Total Utility Capital Projects FY 2019	42,809,905
Total Utility Capital Projects Fys 2019 - 2023	166,499,746
Total Utility Capital Projects Fys 2019 - 2029	440,757,273
GRAND TOTAL ALL PROJECT CATEGORIES	
Total Capital Projects FY 2019	95,276,374
Total Capital Projects Fys 2019 - 2023	409,437,401
Total Capital Projects Fys 2019 - 2029	1,682,406,894

STATE TRANSPORTATION IMPROVEMENT PROGRAM (STIP) BUDGET AND TEN YEAR PLAN BENEFITTING CARY

The North Carolina State Transportation Improvement Program (STIP) is a 10-year State and Federal-mandated program that identifies the construction funding for and scheduling of North Carolina transportation projects. The following chart highlights projects that involves Cary in some capacity. The project total indicates the estimated total cost of the project, and may not necessarily reflect the full amount that will involve Cary specifically.

As of August 2018, STIP was still operating off their FY 2018 year. However, the program is reviewed and may be amended on a monthly basis. The table below represents FYs 2019-2027 planned funds that are subject to change when the FY 2019 STIP is adopted.

Project Category and Type	Project Name	Project Total	Prior Years Cost Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024 to FY 2027
<i>Road Capacity</i>									
	I-40 at Airport Boulevard Interchange Improvements (I-5700)	34,720,000	1,420,000	16,650,000	16,650,000	-	-	-	-
	I-40 at Aviation Parkway Interchange Improvements (I-5506)	24,853,000	14,153,000	10,700,000	-	-	-	-	-
	I-440 Improvements Between Walnut Street and Wade Avenue (U-2719)	470,991,000	240,911,000	80,950,000	74,575,000	74,575,000	-	-	-
	Aviation Parkway between I-40 and NC 54 (U-5811)	28,787,000	500,000	-	1,433,000	1,432,000	-	8,474,000	16,948,000
	Auxiliary Lanes from Aviation Parkway to Harrison Avenue (I-5966)	21,500,000	500,000	-	-	-	700,000	-	20,300,000
	Complete 540 - Triangle Expressway SE Extension (R-2721, R-2828, R-2829)	1,733,737,000	43,018,000	722,430,000	157,032,000	157,032,000	34,663,000	34,663,000	584,899,000
	Harrison Avenue Grade Separation (P-5708)	22,600,000	-	-	-	-	6,000,000	-	16,600,000
	Maynard Road Grade Separation (P-5718)	38,000,000	-	-	-	-	7,100,000	7,100,000	23,800,000
	Louis Stephens (U-5827)	3,036,000	459,000	2,577,000	-	-	-	-	-
	Ten Ten Road Improvements from Apex Peakway to Kildaire Farm Road (U-5825)	54,159,000	3,000,000	-	-	5,045,000	5,044,000	13,690,000	27,380,000
	US 64 Improvements from US 1 to West of Laura Duncan Road (U-5901)	112,800,000	1,000,000	-	11,800,000	-	25,000,000	25,000,000	50,000,000
	GRAND TOTAL ALL STIP PROJECT CATEGORIES	\$2,545,183,000	\$304,961,000	\$833,287,000	\$261,490,000	\$238,084,000	\$78,507,000	\$88,927,000	\$739,927,000

EXPLANATION OF ACRONYMS

Acronym	Explanation
ABC	Alcoholic Beverage Commission
ADA	Americans with Disabilities Act
AOB	Annual Operating Budget
AWWA	American Water Works Association
BANs	Bond Anticipation Notes
BARs	Budget Adjustment Requests
BBP	Blood-borne Pathogen
BID	Business Improvement District
BOD	Biochemical Oxygen Demand
CAEF	Certificate of Adequate Educational Facilities
CAFR	Comprehensive Annual Financial Report
CALEA	Commission on Accreditation for Law Enforcement Agencies
CAMPO Capital	Metropolitan Planning Organization
CATA	Certificate of Approved Traffic Analysis
CATV	Cable Access Television
C/A WTP	Cary/Apex Water Treatment Plant
CDBG	Community Development Block Grant funding
CDL	Commercial Drivers License
CFAI	Commission on Fire Accreditation International
CIB	Capital Improvements Budget
CIP	Capital Improvements Plan
CIRC	Citizen Issue Review Commission
CMAQ	Congestion Mitigation and Air Quality
CO	Certificate of Occupancy
COD	Chemical Oxygen Demand
COPs	Certificates of Participation
COPS	Community Oriented Policing Services program of Federal Grants for Police Officers
CSX	Name of railway company
C-Tran	Cary Transit
DBA	Doing Business As
DARE	Drug Awareness Resistance Program
DEIS	Draft Environmental Impact Statement
DENR	Department of Environment and Natural Resources
DHIC	Downtown Housing Improvement Corporation
DMV	Department of Motor Vehicles
DOT	Department of Transportation
DS	Development Support
EDC	Economic Development Commission
EDU	Equivalent Dwelling Unit
EECBG	Energy Efficiency and Conservation Block Grant
EEO	Equal Employment Opportunity
EHAP	Employee Housing Assistance Program
E	Exempt
EIS	Environmental Impact Statement
EMS	Emergency Management Services
EPA	Environmental Protection Agency
ESAB	Environmental Services Advisory Board
ETB	Extra Territorial Boundary

ETJ	Extra Territorial Jurisdiction
FCC	Federal Communications Commission
FD	Fire Department
FEMA	Federal Emergency Management Administration
FMD	Facilities Management Division
FM	Force Main
FSE	Food Service Establishment
FOG	Fats, Oils, and Grease program
FT	Full-time
FTE	Full-time Equivalent
FY	Fiscal Year
FYS	Fiscal Years
GA	General Assembly
GAAP	Generally Accepted Accounting Principles
GAC	Granular Activated Carbon
GASB	Governmental Accounting Standards Board
GF	General Fund
GFOA	Government Finance Officers Association
GIS	Geographic Information Systems
GO	General Obligation bonds
GPD	Gallons Per Day
GPS	Geographic Positioning System
GS	General Statutes
HR	Human Resources department
HRSS	High Risk, Safety Sensitive
HVAC	Heating, Ventilation, and Air Conditioning
I&I	Inflow & Infiltration
I&P	Inspections and Permits
IBT	Inter-Basin Transfer
IBNR	Incurred But Not Reported
ISAB	Information Services Advisory Board
ISF	Internal Service Fund
ISO	Insurance Services Organization
ITE	Institute of Transportation
LDO	Land Development Ordinance
LED	Light Emitting Diode
LEED	Leadership in Energy and Environmental Design
LGC	Local Government Commission
LOS	Level of Service
MAPPS	Managing And Planning Performance System
MGD	Million Gallons per Day
MM	Morrisville Merger
MOU	Memorandum of Understanding
MPO	Master Police Officer
N/A	Not Applicable
NE	Non-Exempt
NCDOT	North Carolina Department of Transportation
NCDWQ	North Carolina Department of Water Quality
NCLM	North Carolina League of Municipalities
NCWRF	North Cary Water Reclamation Facility
NFPA	National Fire Protection Association

NPDES	National Pollutant Discharge Elimination System
O&M	Operating and Maintenance
OS	Oversizings
OSHA	Occupational Safety and Health Act and Occupational Safety and Health Administration
P&D	Planning and Development
P&Z	Planning and Zoning
PBB	Priority Based Budgeting
PD	Police Department
PIL	Payment in Lieu
PIO	Public Information Office
PM	Preventive Maintenance
PO	Purchase Order or Police Officer
PRCR	Parks, Recreation and Cultural Resources department
PS	Pump Station
PS&O	Public Safety and Operations
PSA	Public Service Announcement
PT	Part-time
PUD	Planned Unit Development
PW	Public Works
RDU	Raleigh-Durham
RFP	Request for Proposals
RIL	Recreation in Lieu
SCADA	Supervisory Control and Data Acquisition
SCWRF	South Cary Water Reclamation Facility
SF	Square Foot
SS	Sanitary Sewer or Suspended Solids
SPO	Senior Police Officer
SPOT	Small Projects One-hour Turn-around
SR	State Road
SRO	School Resource Officer
SRU	Special Response Unit
SS	Sanitary Sewer
SSO	Sanitary Sewer Oversizing
STM	Storm Drainage Management
T&F	Transportation and Facilities
T-Bill	Treasury Bill
TAZ	Traffic Analysis Zone
TCAP	Town Center Area Plan
TDF	Transportation Development Fee
TDM	Traffic Demand
TIA	Traffic Impact Analysis
TIP	Transportation Improvement Program
TM	Town Manager
TND	Traditional Neighborhood Development
TOC	Town of Cary
TS	Technology Services department
TS-1	Traffic Signal - 1 (refers to a type of traffic signal cabinet)
TS-2	Traffic Signal - 2 (refers to a type of traffic signal cabinet)
TTA	Triangle Transit Authority
UCR	Unified Crime Reporting

UDO	Unified Development Ordinance
UF	Utility Fund
USA	Urban Service Area
UT	Utilities
VLF	Vehicle License Fees
WAS	Waste Activated Sludge
WCPSS	Wake County Public School System
W&S	Water and Sewer
WRF	Water Reclamation Facility
WR-INF	Water Resources-Infrastructure
WR-UT	Water Resources-Utilities
WT	Water Treatment
WTP	Water Treatment Plant
WWMP	Waste Water Master Plan
WWWRF	Western Wake Water Reclamation Facility
WWTP	Waste Water Treatment Plant

GLOSSARY OF TERMS

ACCRUAL ACCOUNTING: A basis of accounting in which revenues and expenses are recorded at the time they are incurred, instead of when cash is actually received or disbursed (see funds). For example, in accrual accounting, a revenue earned between June 1 and June 30, but for which payment was not received until July 12, is recorded as earned on June 30 rather than on July 12.

ACCOUNTS: Accounts are used to enter the formally adopted annual operating budget into the general ledger, as well as to organize expenditures and revenues by fund, program, department, activities, etc.

ACREAGE FEES: Fees charged by the gross acre against all property to be developed. Fees start at \$750 per acre for water and sewer for residential development and increase as density increases. These fees are restricted to Utility Fund projects. These fees were replaced with the Water and Sewer Development Fees in FY 2000.

ACTIVITY: A specific service or unit of work performed.

AD VALOREM TAX (PROPERTY TAX): A tax levied on the assessed value of real, personal, public service and vehicle property located within the Town.

AMORTIZATION: The extinction of a debt through a series of payments over time. This is frequently referred to when discussing the series of loan payments associated with paying down the total amount owed due to funds that were previously borrowed.

APPROPRIATION (BUDGETING): A legal authorization granted by the Town Council to make budgeted expenditures and to incur obligations for purposes specified in the budget ordinances.

ASSESSED VALUATION: A value established for real property for use as a basis for levying property taxes.

BALANCED BUDGET: Occurs when planned expenditures equal anticipated revenues. In North Carolina, it is a requirement that the budget submitted to the Town Council be balanced.

BASE BUDGET ALLOWANCE: Ongoing expense for personnel and replacement of existing equipment to maintain service levels previously authorized by the City Council. A *base budget reduction* reflects discontinuation of a service or program previously approved or a cost decrease to provide the same service level.

BASIS OF ACCOUNTING and BASIS OF BUDGETING: The system under which revenues, expenditures, expenses, and transfers – and the related assets and liabilities – are recognized in accounts and reported in financial statements. Basis of Accounting and Basis of Budgeting specifically relates to the timing of the measurements made. Full Accrual and Modified Accrual are each an accepted Basis of Accounting and Basis of Budgeting. The Town of Cary does not distinguish between Basis of Accounting and Basis of Budgeting. All Town of Cary funds are maintained on a modified Accrual basis.

BIOSOLIDS: Defined as stabilized wastewater organisms, this by-product of wastewater treatment is sold as fertilizer by the Town. Commonly referred to as "sludge."

BOND: A written promise to pay a designated sum of money (the principal) at a specific date in the future, along with periodic interest at a specified rate. The payment on bonds is identified as Debt Service. Bonds are generally used to obtain long-term financing for capital improvements.

BOND ANTICIPATION NOTES (BANS): Short-term interest-bearing notes issued by the Town in anticipation of bonds to be issued at a later date. The notes are retired from the proceeds of the bond issue to which they are related.

BOND/DEBT PROCEEDS: The cash resulting from the sale of debt on the bond market. This cash is used to pay for specific capital projects and is repaid with interest based upon a structured repayment schedule.

BOND FUNDS: Resources derived from issuance of bonds for specific purposes and related Federal project grants used to finance capital expenditures.

BOND RATING: A rating (made by an established bond rating company) from a schedule of grades indicating the probability of timely repayment of principal and interest on bonds issued. Cary has an AAA bond rating from all three major bond rating companies.

BOND REFERENDUM: An election in which registered voters vote on whether the Town will be allowed to issue debt in the form of interest-bearing bonds.

BUDGET: A plan of financial operation embodying an estimate of proposed expenditures for a given period and the proposed means of financing them. Upon approval by the Town Council, the budget appropriation ordinance becomes the legal basis for expenditures in the budget year.

BUDGET DOCUMENT (PROGRAM AND FINANCIAL PLAN): The official written statement prepared by the Town staff reflecting the decisions made by the Council in their budget deliberations.

BUDGET MESSAGE: A general discussion of the budget that provides the Town Council and public with a summary of the most important aspects of the budget, changes from previous fiscal years, and the views and recommendations of the Town Manager.

BUDGET ORDINANCE: A formal legislative enactment by the Town Council. If it is not in conflict with any higher form of law, such as a statute or constitutional provision, it has full force and effect of law within the boundaries of the municipality to which it applies.

BUDGET SCHEDULE: The schedule of key dates or milestones that the Town follows in preparation and adoption of the budget.

CAPITAL IMPROVEMENTS: Major construction, repair of, or addition to buildings, parks, streets, bridges and other Town facilities. Capital Improvements projects cost \$25,000 or more, and have a useful life of more than three years.

CAPITAL IMPROVEMENTS BUDGET: The schedule of project expenditures for the acquisition and construction of capital assets for the current fiscal year.

CAPITAL IMPROVEMENTS PLAN: The annually updated plan or schedule of project expenditures for public facilities and infrastructure (buildings, roads, etc.), with estimated project costs, sources of funding, and timing of work over a ten-year period.

CAPITAL OUTLAY: Vehicles, equipment, improvements, software, and furniture purchased by the Town which individually amount to an expenditure of \$5,000 or more, but less than \$25,000, and which have an expected life of more than one year.

CAPITAL RESERVE FUND: A special fund used as a clearing house for monies being transferred from other funds into capital project accounts.

CO - Certificate of Occupancy: is a document issued by the governing agency, signifying that a newly completed building or dwelling conforms to building code regulations and all pertinent ordinances, by meeting the required health and safety standards, and can thereby be inhabited.

CONTINGENCY ACCOUNT: Account in which funds are set aside for emergency and exceptional expenditures that may become necessary during the year and which have not otherwise been provided for in the context of the annual operating budget.

COUNCIL-MANAGER FORM OF GOVERNMENT: Under this form of government, the Mayor and Council establish policy, while a professional manager and his/her appointees are responsible for governmental operations.

DEBT LIMIT: The maximum amount of outstanding gross or net debt legally permitted. The State of North Carolina forbids cities from incurring debt in excess of 8% of the total assessed valuation of taxable property within the city.

DEBT SERVICE: Payment of long term debt principal, interest, and related costs on borrowed funds such as bonds. Debt service is budgeted and accounted for in the fund in which it is incurred.

DEFERRED COMPENSATION: The Town participates in a supplementary retirement income plan (401-K). In addition to Town contributions, each employee has the option of making additional pre-tax contributions.

DEPARTMENT: A major administrative division of the Town that indicates overall management responsibility for an operation or a group of related operations within a functional area. A department usually has more than one program and may include activities or divisions that are accounted for in different funds.

DEPRECIATION: A method of allocating the cost of a tangible asset other than land over its useful life. For example, the normal life of an asset (e.g. fire truck) might be twenty years. The value of that capital asset decreases, or depreciates, over time. The annual depreciation of fixed assets is reported on the financial statements of funds using the accrual basis of accounting. Depreciation is not an expense that is reported on the budgetary financial statements.

DEVELOPMENT FEES: These fees were developed in FY 1999 to replace acreage fees and connection charges. There is a separate fee for water and sewer. The fees are due at building permit issuance and are used to help offset the cost of infrastructure for projects needed to serve growth.

DEVELOPER REIMBURSEMENT: A special case in which the Town reimburses the developer's contribution for a particular construction project, such as waterline oversizings. In the reverse of this situation, the developer may have to reimburse the Town.

DIVISION: A program or function that falls within the specific functional area assigned to a particular Department. Several Divisions may comprise a single Department.

ENCUMBRANCE: A financial commitment for a contract not yet performed. An encumbrance is charged against an appropriation, and a portion of the appropriation is reserved for the purpose of satisfying the encumbrance. It represents the expenditure the Town will make after performance under the contract is completed and an invoice is served.

ENTERPRISE FUND: A grouping of activities whose expenditures are wholly or partially offset by revenues collected from consumers in the form of fees or charges.

EXPENDITURE: The outlay of or obligation to pay cash; a decrease in net financial resources.

EXTRATERRITORIAL ZONING JURISDICTION (ETJ): A geographic area extending from one to three miles beyond a municipality's corporate limits within which the municipality exercises zoning and subdivision control and enforces the State Building Code. A municipality assumes this authority only if the county is not enforcing these three types of development regulations.

FINAL BUDGET: Term used to describe revenues and expenditures for the upcoming year beginning July 1 as adopted by the Town Council.

FIXED ASSETS: Assets of a long-term character which are intended to be held or used, such as land, buildings, machinery, furniture, and other equipment.

FISCAL YEAR: Any consecutive twelve-month period to which the annual operating budget applies and at the end of which a government determines its financial position and the results of its operations. The Town of Cary's fiscal year runs from July 1 to June 30.

FLEXIBLE SPENDING ACCOUNTS: Town employees have the option of having pre-tax dollars deducted from their paychecks and held in a special account, designated for either medical or child care expenses. Throughout the year, employees can submit claims to their flex accounts, and be reimbursed with their own, pre-tax dollars.

FRANCHISE FEE: A fee paid by public service businesses for use of Town streets, alleys, and property in providing their services to the citizens of a community. Example: The Town charges a Cable Television Franchise Fee to cable television companies serving Cary citizens.

FULL-TIME POSITION: Any employee who receives full benefits and works at least 40 hours per week.

FULL-TIME EQUIVALENT POSITION (FTE): A part-time position converted to the decimal equivalent of a full-time position based on 2,080 hours per year. For example, a seasonal employee working for four months, or 690 hours, would be equivalent to .3 of a full-time position.

FUNCTION: A group of related programs crossing organization (departmental) boundaries and aimed at accomplishing a broad goal or major service.

FUND: An accounting entity with self-balancing accounts. A fund records all financial transactions for specific activities or government functions.

FUND BALANCE: Amounts shown as fund balance represent monies which remain unspent after all budgeted expenditures have been made. North Carolina statutes dictate that a portion of fund balance is not available for appropriation in the following fiscal year. This term is used in relation to governmental funds.

FUND EQUITY: Amounts shows as fund equity represent monies which remain unspent after all budgeted expenditures have been made. This term is used in relation to proprietary funds.

GAAP (Generally Accepted Accounting Principles): Accounting principles that are commonly used in preparing financial statements and generally accepted by the readers of those statements. The authoritative source of GAAP for state and local governments is the Governmental Accounting Standards Board (GASB).

GENERAL FUND: The general operating fund of the Town used to account for all financial resources except those required to be accounted for in another fund.

GENERAL LEDGER: A record containing the accounts needed to reflect the financial position and the results of operations of a government.

GENERAL OBLIGATION BONDS: Debt issued by the Town, repayment of which is backed by full taxing power.

GOAL: A statement of broad direction, purpose or intent based on the needs of the community. A goal is general and timeless; that is, it is not concerned with a specific achievement in a given time period.

GOVERNMENTAL FUND: A fund generally used to account for tax-supported or grant activities that go to the delivery of public goods and services. Examples of government funds are the general fund and the general capital projects fund.

GRANTS: Contributions or gifts of cash or other assets from another government to be used or expended for a specified purpose, activity, or facility.

INSTALLMENT PURCHASE DEBT: The Town may borrow money from financial institutions to purchase an asset through a contract, with the asset serving as a security guarantee for the financial institution.

INTERCEPTOR: A large sanitary sewer collection line.

INTERNAL SERVICE FUNDS: Those funds used to account for the financing of goods or services provided by one Town department to others on a cost reimbursement basis.

INVESTMENT REVENUE: Revenue earned on investments with a third party. The Town uses a pooled cash system, pooling the cash of all funds and investing it in total. The interest earned is then allocated back to the individual funds by the average cash balance in that fund.

LDO (Land Development Ordinance): A compilation of rules and regulations adopted by the Town Council, pursuant to the authority granted to the Town of Cary by the NC General Assembly. This ordinance protects the health, safety, and general welfare of the general public, and it implements the policies of the Cary Comprehensive Plan, which guides development of the physical environment of the Town and its planning jurisdiction.

LGC (Local Government Commission): An agency in the NC State Treasurer's Office which oversees local government bonded debt and assists cities and counties in all areas of fiscal management. The

LGC conducts all bond sales, and ensures that local units have sufficient fiscal capacity to repay debt.

LOB (Limited Obligation Bonds): Debt issued by the Town, repayment of which is backed by the asset being financed as a guarantee to investors who purchase the debt on the bond market.

LIABILITIES: Debts or other legal obligations arising out of transactions in the past which must be liquidated, renewed, or refunded at some future date. This term does not include encumbrances.

MDC (Mobile Data Computer): A computer placed in emergency vehicles (specifically designed to perform in vehicles), which provides improved dispatch / response time, communication with station, mapping applications, hazardous material information, field reporting, and location of necessary contact information.

MGD (Million Gallons per Day): A measure used to express the amount of water or wastewater that is treated at the water and wastewater treatment plants.

MODIFIED ACCRUAL: The basis of budgeting and accounting where revenues are recorded when collectable within the current period or soon thereafter to be used to pay liabilities of the current period. Expenditures are recognized when the related liability is incurred.

NET BONDED DEBT: The amount calculated as gross bonded debt less debt service monies available at year-end less debt payable from Enterprise Revenues, which ultimately equates to amounts to be repaid through property taxes.

NOT PLANNED CAPITAL PROJECTS: Capital projects identified for years six through eleven of the Town's planning period that are not being considered for future funding due to cost, priority, or a combination of these factors.

NOT PROGRAMMED CAPITAL PROJECTS: Capital projects with funding needs in years one through five of the Town's planning period for which projected available resources have not been assigned due to cost, priority, or a combination of these factors.

OBJECTIVE: A statement of specific direction, purpose or intent to be accomplished by staff within a program.

OCCUPANCY TAX: A locally administered tax levied on the occupancy of hotel and motel rooms in addition to sales tax. The Wake County Occupancy Tax is 6%. The Chatham County occupancy tax is 3%.

OPERATING BUDGET: The Town's financial plan that outlines proposed expenditures for the coming fiscal year and estimates the revenues that will be used to finance them.

OPERATING FUNDS: Resources derived from recurring revenue sources used to finance ongoing operating expenditures and pay-as-you-go capital projects.

OPERATIONS AND MAINTENANCE EXPENDITURES: Costs other than those for salaries, benefits, and capital outlay that are necessary for the provision of services offered by the Town.

PAYMENT-IN-LIEU: Payments made typically by developers in lieu of donation of recreation land, construction of streets, greenways, etc. This payment is based on appraised values. These funds are restricted to specific types of parks and recreation and transportation projects.

PERSONNEL SERVICES: The expenditure category that includes total costs of all wages, salaries, retirement, and other fringe benefits.

PERFORMANCE MEASUREMENT: Any systematic attempt to learn how responsive a government's services are to the needs of constituents through the use of standards, workload indicators, etc.

PLANNED CAPITAL PROJECTS: Capital projects with funding needs appearing in years six through eleven of the Capital Improvements Budget/Plan. These needs have not been matched with estimated available resources but will be considered for funding as they roll into the Programmed Capital Projects five-year window.

POLICE SEPARATION ALLOWANCE: A separate trust fund, required by state law, to provide a separation allowance for police officers if they retire after age 55 and have served at least 5 years.

POWELL BILL FUNDS: An intergovernmental transfer from the State of North Carolina. These revenues are based on gasoline sales in the state and the number of miles of streets within the Town. These funds must be used for transportation projects.

PRETREATMENT PROGRAM: Industries must obtain a permit and renew it annually in order to discharge into the Town's wastewater system. The program includes sampling charges for monitoring the industry's discharge and surcharges for any discharges exceeding desired limits.

PRIOR YEAR AD VALOREM (PROPERTY) TAXES: Ad Valorem (Property) Taxes that remain unpaid on or after the date they are due. A penalty is included for non-payment.

PRODUCTIVITY: A measure of the output of Town programs per unit of resource input invested.

PROGRAM: An organized set of related work activities, which are directed toward accomplishing a common goal. Each Town department is usually responsible for a number of related service programs.

PROGRAMMED CAPITAL PROJECTS: Capital projects for which projected available resources have been assigned in the budget year and next four planning years. Only the first year's funds have been appropriated.

PROPERTY TAX (AD VALOREM TAX): A tax levied on the assessed value of real and personal property located within the Town.

PROPRIETARY FUND: A fund used to account for the sale of private goods and services, thus functioning more typically like business-type ventures of a local government. The two types of proprietary funds are the enterprise fund and the internal service fund. The Town of Cary utilizes an enterprise fund to account for its water and sewer operations and an internal service fund to account for its fleet operations.

PUD (Planned Unit Development): A tract of land under single ownership, or under common control evidenced by duly recorded contracts or agreements approved by the Town Council, that is planned and developed as an integral unit in a single development operation or in a programmed series of development operations in accordance with a master land use plan and detailed engineering and architectural plans as approved by Town Council.

REFUNDING: The issuance of long term debt in exchange for, or to provide funds for, the retirement of long-term debt already outstanding. Refunding is essentially the "refinancing" of long-term debt.

RESERVE: A portion of fund balance earmarked to indicate that it 1) is not available for expenditure, or 2) is legally segregated for a specific future use.

RESOURCES: Assets that can be used to fund expenditures. These can be such things as property taxes, charges for service, beginning fund balance, or working capital.

RETAINED EARNINGS: An equity account reflecting the accumulated earning of an enterprise or internal service fund.

REVENUE: Income received from various sources used to finance government services (ex. sales tax revenue).

REVENUE BONDS: Bonds whose principal and interest are payable exclusively from earnings of an Enterprise Fund. Such bonds sometimes contain a mortgage on the fund's property.

REVERSION: The amount of approved budget authority for operating expenditures remaining at the end of a given fiscal year. For example, if the current adopted budget includes \$3 million for expenditures, and only \$2.9 million is spent during the fiscal year, there would be \$100,000 in reversion. Typically, the amount of reversion serves to increase the previously estimated amount of fund balance remaining at the end of the fiscal year because not all of the approved funding was actually expended.

RISK MANAGEMENT: The identification and control of risk and liabilities incurred by a local government to conserve resources from accidental loss.

SERVICE LEVEL TREND: The tracking, over a specified time period, of an output measure showing a workload change or the degree of achievement for stated program objectives.

SEWER DEVELOPMENT FEES: See *Development Fees*.

SPECIAL REVENUE FUNDS: Special Revenue Funds are used to account for resources that are subject to legal spending restrictions. They are created when a resolution, statute or ordinance requires that specific taxes or special revenue sources are used to finance a particular activity.

SUPPLEMENTAL BUDGET ALLOWANCE: A supplemental budget allowance reflects additional personnel, equipment, and related expenses that increase the size of the work force or the inventory of equipment.

TAX BASE: The total assessed valuation of real property within the Town.

TAX RATE: See *Ad Valorem Tax* or *Property Tax*.

TIPPING FEES: The cost incurred by the Town to deposit garbage in the Wake County Landfill. In FY 2009 the Town has budgeted \$30.00/ton to cover these charges. Effective January 2009, the Town has also budgeted an additional \$2 per ton excise tax that will be due for each ton received at the landfill.

TRANSFER: An appropriation to or from another fund. A transfer is the movement of money from one fund to another to wholly or partially support the functions of the receiving fund.

TRANSPORTATION DEVELOPMENT FEE: Impact fees charged by the Town to developers which are to be used to construct and improve thoroughfares in and around subdivisions. This fee was added during FY 1990 with permission of the State Legislature.

TRANSPORTATION IMPROVEMENT PROGRAM (TIP): A document containing funding information and schedules for State Transportation Projects, including highways, aviation, enhancements, public transportation, rail, bicycle and pedestrians, and the Governor's Highway Safety Program. TIP is the statewide program run by the North Carolina Department of Transportation.

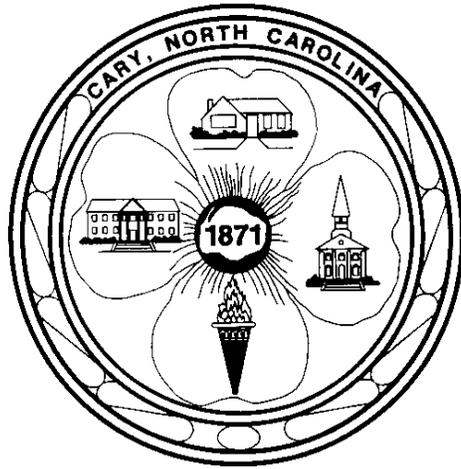
TRUST AND AGENCY FUNDS: These funds are custodial (used to account for assets held by a government in a trustee capacity) and do not involve measurement of results of operations. They are generally limited to instances where legally mandated, or where a formal legal trustee relationship exist. Principal and interest in the funds may be expended in the course of their designated operations.

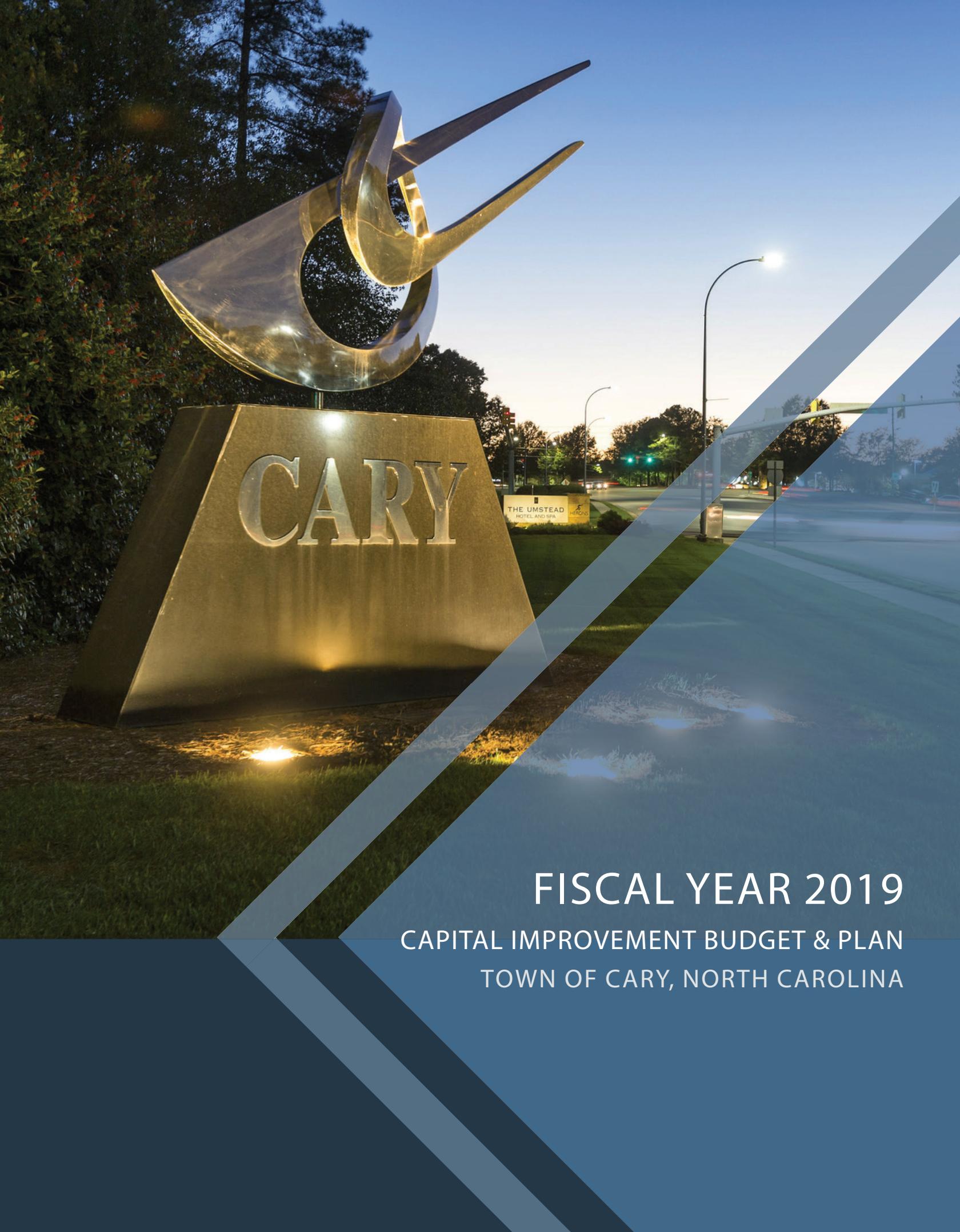
USER CHARGES: The payment of a fee for direct receipt of a public service by the party benefiting from the service.

UTILITY FRANCHISE TAX: Tax levied by the state on electric, gas, telephone, and street transportation companies. The proceeds are shared with municipalities.

WATER DEVELOPMENT FEES: See *Development Fees*.

WORKLOAD INDICATORS: An indication of the output of a department. It may consist of transactions, products, events, services, or persons served.





FISCAL YEAR 2019

CAPITAL IMPROVEMENT BUDGET & PLAN
TOWN OF CARY, NORTH CAROLINA

TOWN of CARY

WWW.TOWNOFCARY.ORG