

TOWN of CARY

North Carolina

FISCAL YEAR 2017

ADOPTED

CAPITAL IMPROVEMENTS BUDGET

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TOWN *of* CARY
FY 2017 Capital Improvements Budget
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CAPITAL IMPROVEMENTS BUDGET OVERVIEW FOR FISCAL YEAR 2017

Each year, staff prepares a capital improvements budget and a long range capital improvements plan for Town Council's consideration. The capital improvements budget (CIB) and ten year plan (CIP) are recommendations to help meet Council policy direction in the areas of service delivery, infrastructure maintenance and development, regulatory compliance, facilities planning and development, financial condition and projects needed to further enhance the quality of life in Cary.

The CIB also 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 2017 approved capital project and identifies future year projects for fiscal years 2018 through 2027. Figures noted for fiscal years 2018 through 2027 are for planning purposes only and are not appropriations for those years. All amounts beyond FY 2017 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 2017 marks the 16th 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.

Fiscal Year 2017 is the second year that the Town has limited the projects in years after the budget year to the amount of funding projected to be available. The funding limitation applies to FY 2018 through FY 2021. Projects in these years are shown as Programmed or Not Programmed for funding to better identify those projects that are likely to be initiated during that period.

The further out into the future one examines the ten year capital improvements plan, the more question there is as to whether and when specific projects will actually occur. Staff annually evaluates each project and adjusts the CIB/CIP to reflect current expectations for the future. Projects in the FY 2017 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 Improvements Funding Principles

The Town's FYs 2017 – 2027 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 Town's Priority Based Budgeting goals but also their ability to yield a capital improvements budget/plan that adheres to the following four funding principles:

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

In March 2008, a series of financial goals were established by Town Council to guide staff in the management of areas such as operating fund balances and debt service. These goals established 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 rates 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.

2. 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.

3. Funding Principle: Minimize reliance on FY 2017 capital reserve revenues

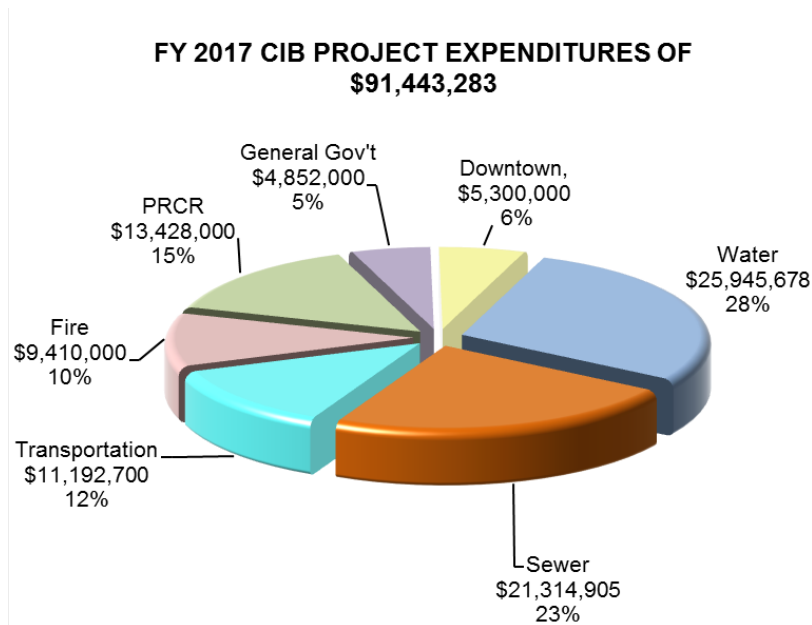
The general and utility capital reserve funds each have dedicated revenue sources. These revenue sources are categorized as either restricted or unrestricted. Restricted revenues can only be applied to specific types of projects. Examples of restricted revenues include developer fees, payments made by 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.

4. 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 are conservatively applied to support capital needs.

FY 2017 Recommended Capital Improvements Budget and Plan Summary

The \$91,443,283 Fiscal Year 2017 recommended capital improvements budget (CIB) represents a 17% increase above the FY 2016 adopted CIB. This increase is primarily attributed to several large appropriations within the Fire, Parks Recreation and Cultural Resources and Downtown project categories including: construction funding for Fire Station #9, completion of the White Oak Creek Greenway, improvements to the USA Baseball National Training Facility and funding for an economic development opportunity in downtown Cary.



Beginning last year, the Town changed its capital budgeting process so that in the first five years of the Capital Improvement Plan (CIP) projects are shown as either Programmed or Not Programmed for funding. As such, the Capital Improvements Budget (CIB) in any year should be similar to the list of Programmed projects shown for that year in the prior year's CIP. Even with such fiscally constrained capital planning, changing circumstances and changes in revenue estimates may require adjustments to the plan. The proposed FY 2017 Capital Improvements Budget is similar to the Programmed projects shown for FY 2017 in last year's CIP, but there are several notable exceptions.

Parks, Recreation, and Cultural Resources

- The CIP approved last year included Cameron Pond Neighborhood Park as a Programmed project with funding for design in FY 2017, and showed Morris Branch Park as a Not Programmed project. Staff now believe that the Morris Branch (P-006) Neighborhood Park would better serve the residents of northwest Cary due to its better proximity to this growing area at a lower cost. The reprogramming of \$100,000 between the parks in FY 2017 is the first step in a later, more significant shift of funding.
- The FY 2017 CIB shifts funds between several renovation and repair projects to reflect current priorities based on the condition of facilities and their level of use.
- The recommended CIB reflected the reassignment of \$1,950,000 in Interlocal funding from Wake County between the WakeMed Soccer Park Project and the Cary Tennis Park expansion, as approved by Council in April 2016.

Fire

- An additional \$210,000 is included to replace all of the Fire Department's thermal imaging cameras which are at the end of their recommended life. These cameras are used to identify smoldering fires, detect overheating electrical wiring and aid in search and rescue efforts to find victims disoriented in a structure fire.

General Government

- Last year, the Town established a Heavy Equipment Replacement Project to provide funding for the replacement of trucks and other rolling stock that cost at least \$50,000. The project was funded at \$1.1 million annually based on the equipment to be replaced over the five year period. During this year's capital budget review, staff determined that many of the more expensive vehicles on the replacement list were performing most of their work on water and sewer system activities. As a result, the replacement costs of these vehicles should be accounted for as utility capital projects, thereby reducing the amount of funding needed in FY 2017 to \$300,000 and allowing reductions in other years of the CIP.
- The CIP includes several projects to provide annual or semi-annual funding for the replacement of aging equipment and structures at Town facilities. The CIP did not previously include a project to replace aging roofs, and \$400,000 is included in the FY 2017 CIB for this purpose. Funds for this project are included in future years of the CIP as well.
- The FY 2017 CIB includes \$197,000 for replacement of Cary TV equipment to complete the conversion to digital transmission of programming.

Utilities

- The FY 2017 CIB reduces funding for the Basin W12 Regional Pump Station, Gravity Sewer and Force Main project from \$4.2 million in last year's CIP to \$1 million. The \$4.2 million project cost was based upon providing the remaining site acquisition and all design and construction funding for the project in FY 2017. Staff have now determined that it would be better to address remaining site acquisition in FY 2017 and provide design and construction funding in FY 2018.
- The CIB includes a new project, Lower Swift Creek Parallel Interceptor, at a cost of \$2 million. A parallel interceptor along the existing Swift Creek Interceptor will ease the burden on existing interceptors during heavy rainfall and other wet weather events. This project previously noted a funding request in FY 2021, but staff have determined that it would be best to complete this work in a shorter timeframe, rather than phasing in improvements as was originally requested.
- The CIB includes a new project, North Cary Water Reclamation Facility – Partial and Diffused Air System, at a cost of \$4.3 million. An external consultant has reviewed capacity needs associated with the North Cary Water Reclamation Facility and determined that this project is the most efficient way of meeting the near-term capacity needs of the facility without moving from a two-train to a three-train operation. Additional aeration will allow the plant to process another 1 MGD within the existing two train system for at least another 5-7 years.
- The CIB includes a new project, RDU Center Pump Station Force Main Replacement at a cost of \$1.6 million. Recent inspection of sewer force mains found that the RDU Center Force Main showed significant loss in pipe wall thickness due to internal corrosion.

FYs 2017 – 2021 General Capital Improvements Plan

The first priority for programming of funds during the first five years of the CIP is to maintain the condition and functionality of Town facilities. The CIP approved last year devoted 65 percent of the funding available to maintaining existing facilities. The remaining 35 percent of the funding was used for the expansion or addition of a limited number of facilities. Some of the projects that could not be funded were a high priority, but simply were too expensive to program within the Town's limited capital resources. For these reasons, staff provided Council with the opportunity in October 2015 to identify projects on the Not Programmed list that would be a priority for funding with additional resources, which could include debt or additional funding from the General Fund's fund balance above minimum requirements (green money). Council Members each identified four

projects that were a priority to them, and the following projects were selected by at least two Council Members.

1. Downtown Library Parking and Capacity
2. Mills Park Community Center
3. Economic Development Opportunities
4. Downtown Park Future Phases
5. Northwestern Cary Fire Station

Council has since addressed one of these priorities by appropriating \$8.1 million for the library parking deck. Council also gave direction to use \$5 million in fund balance to support a residential and commercial economic development project at S. Harrison Avenue and W. Chatham Street. This direction is reflected in the CIB.

Per Council's direction, staff has considered what projects could be programmed for funding within the resources that the Town devotes to capital projects, and have developed a proposal for alternative funding of additional significant projects. In developing this proposal, staff sought to support the remaining Council priorities while also addressing other capital needs. The proposal for funding capital from additional resources was based on three assumptions:

1. The Town can issue an additional \$50 million in debt over the next five years without impairing its financial standing;
2. Debt ideally should be subject to voter approval in a bond referendum in November 2018, but projects that are needed sooner could be financed with debt not subject to voter approval;
3. Up to \$5 million of additional fund balance (green money) could be used for projects for which the use of cash was more appropriate than debt.

The proposal was a multi-year plan, and only the projects for FY 2017 required Council approval this year.

The proposal would address the Council priorities for a Mills Park Community Center and the Fire Station #10 on O'Kelly Chapel Road. In addition to the capital costs of design and construction in FY 2020 and FY 2021, Fire Station #10 will have capital costs in FY 2022 for the purchase of a pumper. We expect that this cost can be accommodated without debt. Both projects would have significant operating costs beginning in FY 2022, for both the equipment needed to upfit the facilities, and ongoing annual personnel costs, utilities, supplies, and maintenance. The debt for the construction of these facilities would be subject to voter approval. The additional debt service associated with the bonds and the operating costs of the facilities could be funded through either a tax rate increase (as with the 2012 bonds) or reductions to spending and service levels. In addition to these two Council priorities, the proposal includes several time-sensitive projects of importance. The full proposal is shown in the table below:

Project	Type of Debt	FY 17	FY 18	FY 19	FY 20	FY 21
Sidewalk Facilities	2012 GO Referendum	\$1,027,700	-	-	-	-
Fire Station #9	2012 GO Referendum Installment Purchase	\$7,150,000	-	-	-	-
Police Evidence Room Capacity	Installment Purchase	\$2,000,000	-	-	-	-
Aerial Ladder Truck for New Company in NW Area	Installment Purchase	\$672,000	-	-	-	-
Downtown Development Project	Fund Balance (Green Money)	\$5,000,000				
USA Baseball National Training Center Facility Improvements	Fund Balance (Green Money)	\$3,197,500	-	-	-	-
Reedy Creek Road Widening	2012 GO Referendum	-	-	\$7,000,000	-	-
Aerial Ladder Replacement	Installment Purchase	-	-	-	\$1,260,000	-
Mills Park Community Center	Future GO Referendum	-	-	-	\$1,500,000	\$15,000,000
Fire Station #10	Future GO Referendum	-	-	-	\$750,000	\$7,000,000
Chapel Hill Road Widening	Future GO Referendum	-	-	-	-	\$5,850,000
Fire Pumper Replacement	Installment Purchase	-	-	-	-	\$655,200
TOTAL		\$19,047,200	-	\$7,000,000	\$3,510,000	\$28,505,200

NOTE: The amounts shown are not the full cost of the project but are only the portion to be funded by debt or additional General Fund fund balance.

The rationale for including the additional projects is summarized below:

- Sidewalk facilities – Sidewalks on Penny Road and Old Apex Road were part of the sidewalk program presented to voters in 2012 bond information, but they cannot be completed within the amount of debt issued for sidewalks because the cost of the other 2012 sidewalk projects is higher than expected due to the need to purchase additional right-of-way and easements. These two projects would be funded by using authorized but unissued 2012 bonds.
- Fire Station #9 – Fire Station #9 on Walnut St would improve service to areas of Cary, including Crossroads Shopping Center, where response times currently exceed standards. The station's current building on NE Maynard Road has structural concerns and cannot serve as a long-term facility. The closure of the current station and construction of a new station was part of the plan when Fire Station #2 was proposed for construction as part of the 2012 bonds. The Fire Station #9 project would be financed by a combination of authorized but unissued 2012 bonds and installment purchase debt, which pledges the asset as collateral and does not require voter approval.
- Police Evidence Room Capacity – The volume of material stored in the Police Department's evidence room is rapidly reaching capacity, due in part to the requirement that evidence in some crimes against persons cases be kept for decades. The proposed funding is a preliminary estimate of the cost to build a new, secure evidence storage facility on Town property. The construction would be financed with installment purchase debt.
- Aerial Ladder Truck for New Company in the Northwestern Area – The Town standard for structural fires requiring a ladder truck is that 90 percent of responses must take less than 10 minutes to provide an "effective firefighting force". In the northwestern part of Cary the figure is 19 minutes. Adding a ladder company in this area would bring response time within the standard. Because the truck would require 13 new positions to staff all three shifts, the operating cost of this truck would be \$1.2 million beginning in FY 2018. This significant cost would require either a reduction in spending and service levels within the General Fund operating departments or a tax increase in that year of less than half a cent at current revenue projections. The purchase of the truck would be financed with installment purchase debt.
- Reedy Creek Road Widening – The project would widen Reedy Creek Rd from NE Maynard Road to Harrison Avenue to three lanes and provide curb and gutter, sidewalks, and street lighting. The Town has received \$360,000 in Federal funds to begin the design and permitting of the project and the Town contributed \$240,000. If the project is not completed by September 2021, the Town will be required to return the \$360,000. Construction funding would be needed by FY 2019 to meet this schedule. It is likely that additional federal funding will be available to offset some of the project cost and reduce the amount of debt that would be needed. The Town portion of the project would be financed with authorized but unissued 2012 bonds.
- Aerial Ladder Replacement – The scheduled replacement of a ladder truck could not be fully funded within designated capital funding sources in FY 2020 due to its cost. The purchase of the truck would be financed with installment purchase debt.
- Chapel Hill Road Widening – The project would widen Chapel Hill Road from N. Academy to Reedy Creek Road to a 3-lane section with curb and gutter, bike lanes, sidewalk, and street side trail in order to improve safety in corridor, provide safe pedestrian and bicycle links to the downtown area and spur economic redevelopment in the corridor. Most of this project would be funded by General Obligation bonds for which voter approval would be sought in November 2018.
- Fire Pumper Replacement - The scheduled replacement of a pumper truck could not be fully funded within designated capital funding sources in FY 2021 due to its cost. The purchase of the truck would be financed with installment purchase debt.
- USA Baseball National Training Center Facility Improvements – As part of its interlocal agreement with Wake County for use of occupancy tax funds, the Town committed to using part of its distribution of the funds to support half the cost of constructing a clubhouse facility and office space at the USA Baseball National Training Facility. The remainder would be paid by USA Baseball, which so far has not raised its share of the funding. In the last year, USA Baseball implemented an agreement with

youth baseball organizations for the licensing of youth baseball bats, which will provide it with an ongoing revenue source to fund the improvements. USA Baseball has requested that the Town front the full cost of the construction project and that it be allowed to pay the Town back through a ten-year lease of the facility that would cover both the annual maintenance of the facility and the capital costs. This project would be funded with General Fund fund balance (green money). The capital portion of the lease payments would replenish fund balance.

It is possible to revise the Town's debt issuance schedule and debt repayment structure in order to avoid a tax increase for the debt-funded projects proposed for FY 2017 and FY 2019. The Town was planning to issue a second round of bonds to fund the 2012 referendum projects in September 2016. Given the pace of spending for the projects, this debt issuance date now appears premature. If the sale is delayed until September 2017, the funds that would have been used to pay the debt service on this issuance can be directed to an existing 2012 bond project (Carpenter Fire Station Road Bridge and Intersection Improvements), thereby reducing the need to issue debt for that project. Rather than use the repayment structure that was planned, which involved high initial payments and much lower later payments, the debt could be issued with a more even repayment schedule, thereby allowing the debt to be issued at a lower annual repayment cost and allowing the additional debt proposed for FY 2017 as part of this proposal to be issued in May 2017 without a net increase in annual debt service. By funding these important projects with debt and fund balance (green money) the portion of the CIB devoted to expansion of existing facilities and development of new facilities would increase to 47 percent.

FYs 2017 – 2021 Utility Capital Improvements Plan

The utility capital budget was developed as it has been in prior years, with a multi-year focus.

All identified projects are funded with sources designated for utility projects, such as water and sewer development fees, transfers from the utility fund, or revenue bonds. The cost of the debt service for revenue bonds is factored into the rates charged to water and sewer customers. Future utility rates are calculated using the 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 used 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.

Over 42 percent (\$55 million) of the capital funding over the first five years of the utility capital plan is devoted to the upgrading of water lines and the rehabilitation of sewer lines. Seven other projects valued at over \$3 million each account for 54 percent of the total funding.

The Recommended Budget also includes increases in the water and sewer utilities rates that equate to a \$2.85 (3.8 percent) increase in cost for a residential customer using 5,000 gallons per month. Because of rate smoothing, we currently project that utility rates will increase at an annual average rate of 3.74 percent over the next eight years.



CHANGES TO FISCAL YEAR 2017 RECOMMENDED CAPITAL IMPROVEMENTS BUDGET

The FY 2017 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 27, 2016.

Capital Budget

General

1. Reduce the \$1,700,000 interlocal funding appropriation to the Cary Tennis Park Interlocal project in FY 2017 by \$463,629. Staff Report TF16-067 Bid Award - Cary Tennis Park Expansion was approved by Council on May 12, 2016 and directed that \$463,629 of the \$1,700,000 of anticipated interlocal funding in FY 2017 for this project be appropriated mid-year 2016 in order to award the construction bid for this project.
2. Appropriate \$300,000 of General Fund transfer funding for the design and construction of restrooms at MacDonald Woods Park as directed by Council during Budget Worksession #2 on June 13, 2016.
3. Appropriate \$100,000 of General Fund transfer funding for completion of a master plan for the future phases of the Downtown Park as directed by Council during Budget Worksession #2 on June 13, 2016.

Utility

There were no changes to the 2017 utility capital budget.



UTILITY CAPITAL IMPROVEMENTS BUDGET ORDINANCE FISCAL YEAR 2017

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, 2016 and ending June 30, 2017.

SUMMARY	
Water Capital Improvements Fund	\$25,945,678
Sewer Capital Improvements Fund	<u>21,314,905</u>
Total	<u>\$47,260,583</u>

Section 1. Water Capital Improvements Fund Projects	<u>\$25,945,678</u>
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REVENUES

RESTRICTED FUND BALANCE	\$1,152,000
UNRESTRICTED FUND BALANCE	1,134,119
UTILITY FUND TRANSFER	2,346,309
MUNICIPAL REIMBURSEMENT - TOWN OF APEX	1,960,750
REVENUE BOND DEBT	19,352,500
TOTAL REVENUES	<u>\$25,945,678</u>

Section 2. Sewer Capital Improvements Fund Projects	<u>\$21,314,905</u>
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REVENUES

RESTRICTED FUND BALANCE	\$10,464,535
UNRESTRICTED FUND BALANCE	515,000
UTILITY FUND TRANSFER	4,337,488
MUNICIPAL REIMBURSEMENT - TOWN OF APEX	11,900
REVENUE BOND DEBT	5,985,982
TOTAL REVENUES	<u>\$21,314,905</u>

Section 3. Utility Capital Reserve Fund Budget

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

REVENUES

WATER DEVELOPMENT FEE	\$3,367,698
SEWER DEVELOPMENT FEE	5,122,321
INTEREST EARNINGS	1,279,800
APPROPRIATION FROM FUND BALANCE:	
UNRESTRICTED UTILITY CAPITAL RESERVE FUND BALANCE	
UNRESTRICTED	1,649,119
RESTRICTED UTILITY CAPITAL RESERVE FUND BALANCE	
WATER DEVELOPMENT FEES	1,152,000
SEWER DEVELOPMENT FEES	10,099,500
RECLAIMED WATER LINE DEVELOPMENT FEES	134,010
MISCELLANEOUS REIMBURSEMENT	231,025
TOTAL REVENUES	<u>\$23,035,473</u>

INTER-FUND TRANSFERS

TRANSFER TO WATER CAPITAL PROJECTS FUND	\$2,286,119
TRANSFER TO SEWER CAPITAL PROJECTS FUND	10,979,535
RESERVE FOR CAPITAL NEEDS:	
WATER DEVELOPMENT FEES	3,367,698
SEWER DEVELOPMENT FEES	5,122,321
INTEREST EARNINGS	1,279,800
TOTAL INTER-FUND TRANSFERS	<u>\$23,035,473</u>

Section 4. Fee Schedule

The fees as contained in Attachment A are hereby approved and adopted for fiscal year 2017.

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 2017 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. Bond Revenues To Be Expended First

On all projects funded for FY 2017, any bond revenues designated as funding sources shall be transferred into the projects. Once the debt is issued, these funds will be expended prior to the transfer and expenditure of any other funding sources.

FISCAL YEAR 2017 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.

These 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). The schedule of charges for the water development fee is authorized by Town Code Chapter 36.

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 dwelling unit (EDU) rate for potable water using 435 gallons on a peak day is \$1,805 for all areas served by Town of Cary utilities.

RESIDENTIAL WATER DEVELOPMENT FEES	
<u>Square Feet/Meter/Use</u>	<u>Fee (All Areas)</u>
Single Family < 1,700 square feet	\$1,183
Single Family 1,701 - 2,400 square feet	1,471
Single Family 2,401 - 3,100 square feet	1,805
Single Family 3,101 - 3,800 square feet	2,173
Single Family > 3,800 square feet	2,783
Apartments, per unit	1,164
Irrigation (potable water), per lot	1,161

B. RESIDENTIAL SEWER DEVELOPMENT FEE:

Equivalent dwelling unit (EDU) rate is \$3,456 for sewer using 348 gallons on an average day for all areas served by Town of Cary utilities.

RESIDENTIAL SEWER DEVELOPMENT FEES	
<u>Square Feet/Meter/Use</u>	<u>Fee (All Areas)</u>
Single Family < 1,700 square feet	\$2,118
Single Family 1,701 - 2,400 square feet	2,967
Single Family 2,401 - 3,100 square feet	3,456
Single Family 3,101 - 3,800 square feet	3,855
Single Family > 3,800 square feet	4,904
Apartments, per unit	2,315

C. NON-RESIDENTIAL WATER AND SEWER DEVELOPMENT FEES:

Non-residential water and sewer development fees are based upon the rate of \$4.15 / peak day gallons for potable water and \$9.93 / 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.

TYPE OR USE OF ESTABLISHMENT	UNIT	WATER DEVELOPMENT FEE	SEWER DEVELOPMENT FEE
Retail - Large (>80,000 sq. ft.)	1,000 sq. ft.	\$181	\$262
Retail - Medium (20,000-80,000 sq. ft.)	1,000 sq. ft.	\$225	\$327
Retail - Small (<20,000 sq. ft.)	1,000 sq. ft.	\$338	\$491
Laundromat, self service	1,000 sq. ft.	\$7,961	\$11,545
General/Medical office - Large (>20,000 sq. ft.)	1,000 sq. ft.	\$136	\$197
General/Medical office - Medium (5,000-20,000 sq. ft.)	1,000 sq. ft.	\$181	\$262
General/Medical office - Small (<5,000 sq. ft.)	1,000 sq. ft.	\$270	\$392
Country club	1,000 sq. ft.	\$519	\$753
Industrial, factory	1,000 sq. ft.	\$169	\$245
Drug store	1,000 sq. ft.	\$83	\$120
Warehouse	1,000 sq. ft.	\$85	\$123
Mini-Warehouse	1,000 sq. ft.	\$8	\$11
Church, Worship Center	1,000 sq. ft.	\$136	\$197
Full service restaurant	1,000 sq. ft.	\$3,057	\$4,434
Single service item restaurant	1,000 sq. ft.	\$796	\$1,154
Carry out restaurant	1,000 sq. ft.	\$136	\$197
Hotel, motel	1,000 sq. ft.	\$803	\$1,164
Laundry, not self service	1,000 sq. ft.	\$1,939	\$2,812
Veterinary hospital, boarding, kennel	1,000 sq. ft.	\$434	\$630
Hospital	1,000 sq. ft.	\$1,445	\$2,095
Nursing home	1,000 sq. ft.	\$1,196	\$1,735
Day care or school	1,000 sq. ft.	\$624	\$906
Recreation, with pool	1,000 sq. ft.	\$4,128	\$5,986
Recreation, no pool	1,000 sq. ft.	\$514	\$746
Gas station, no car wash	1,000 sq. ft.	\$331	\$480
Gas station with car wash	1,000 sq. ft.	\$9,344	\$13,550
Full or self service car wash	1,000 sq. ft.	\$4,288	\$6,218
Stadia, auditoriums, theatres	1,000 sq. ft.	\$313	\$454
Potable Water Irrigation	1,000 irrigated	\$734.23	-

D. RESIDENTIAL RECLAIMED WATER DEVELOPMENT FEES:

Equivalent dwelling unit (EDU) rate is \$581 for reclaimed water using 280 gallons on a peak day for all areas served by Town of Cary utilities.

RESIDENTIAL RECLAIMED WATER DEVELOPMENT FEES	
<u>Use</u>	<u>Fee (All Areas)</u>
Irrigation (reclaimed water), per lot	\$581
Reclaimed water for uses other than irrigation	Contact the Inspections and Permits Department for uses of reclaimed water other than irrigation. Reclaimed water development fees are calculated based on a rate of \$2.08 / peak day gallons.

E. NON-RESIDENTIAL RECLAIMED WATER DEVELOPMENT FEES:

Based upon the high degree of variability in non-residential uses and flow rates, these development fees are calculated by Town staff using a rate of \$2.08 / peak day gallons for reclaimed water for all areas served by Town of Cary utilities.

NON-RESIDENTIAL RECLAIMED WATER DEVELOPMENT FEES	
<u>Use</u>	<u>Fee (All Areas)</u>
Reclaimed water irrigation	\$368 / 1,000 irrigated sq ft

F. 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.

G. STANDARD UNIT PRICES FOR OVERSIZE REIMBURSEMENT REQUESTS:

OVERSIZE REIMBURSEMENT CHARTS												
DIP												
LINE SIZE REQUIRED BY THE TOWN OF CARY	Size (in)	Size Required for Project										
		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 (in)	Size Required for Project									
		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	-

PVC - SDR 35 – applies only to Sewer

LINE SIZE REQUIRED BY THE TOWN OF CARY	Size (in)	Size Required for Project							
		8	10	12	15	18	21	24	
	8	-	-	-	-	-	-	-	
	10	6	-	-	-	-	-	-	
	12	7	-	-	-	-	-	-	
	16	11	5	4	-	-	-	-	
	18	12	6	5	-	-	-	-	
	20	19	13	12	8	7	-	-	
	24	26	20	19	15	14	7	-	

VALVES

LINE SIZE REQUIRED BY THE TOWN OF CARY	Size (in)	Size Required for Project									
		4	6	8	10	12	16	18	20	24	30
	4	-	-	-	-	-	-	-	-	-	-
	6	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-
	10	675	500	275	-	-	-	-	-	-	-
	12	1,175	1,000	775	500	-	-	-	-	-	-
	16	4,950	4,775	4,550	4,275	3,775	-	-	-	-	-
	18	6,675	6,500	6,275	6,000	5,500	1,725	-	-	-	-
	20	11,175	11,000	10,775	10,500	10,000	6,225	4,500	-	-	-
	24	17,175	17,000	16,775	16,500	16,000	12,225	10,500	6,000	-	-
	30	38,975	38,800	38,575	38,300	37,800	34,025	32,300	27,800	21,800	-

BORE AND JACK

	Carrier Pipe Size Required for Project										
	Size (in)	4	6	8	10	12	16	18	20	24	30
CARRIER PIPE SIZE REQUIRED BY THE TOWN OF CARY	4	-	-	-	-	-	-	-	-	-	-
	6	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-
	10	200	150	30	-	-	-	-	-	-	-
	12	220	170	50	20	-	-	-	-	-	-
	16	420	370	250	220	200	-	-	-	-	-
	18	470	420	300	270	250	50	-	-	-	-
	20	520	470	350	320	300	100	50	-	-	-
	24	670	620	500	470	450	250	200	150	-	-
	30	870	820	700	670	650	450	400	350	200	-

GENERAL CAPITAL IMPROVEMENTS BUDGET ORDINANCE

FISCAL YEAR 2017

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, 2016 and ending June 30, 2017.

SUMMARY	
Transportation Capital Improvements Fund	\$11,192,700
Fire Capital Improvements Fund	9,410,000
Parks, Recreation, and Cultural Resources Capital Improvements Fund	13,364,371
General Government Capital Improvements Fund	4,852,000
Downtown Capital Improvements Fund	5,300,000
Total	<u>\$44,119,071</u>

Section 1. Transportation Capital Improvements Fund Projects **\$11,192,700**

REVENUES

RESTRICTED FUND BALANCE	\$4,385,501
RESTRICTED REVENUE	3,279,499
GENERAL FUND TRANSFER	2,500,000
2012 GENERAL OBLIGATION BOND REFERENDUM (UNBUDGETED AUTHORITY)	1,027,700
TOTAL REVENUES	<u>\$11,192,700</u>

Section 2. Fire Capital Improvements Fund Projects **\$9,410,000**

REVENUES

UNRESTRICTED FUND BALANCE	\$650,000
GENERAL FUND TRANSFER	938,000
2012 GENERAL OBLIGATION BOND REFERENDUM (TRANSFERRED)	1,000,000
INSTALLMENT PURCHASE DEBT	6,822,000
TOTAL REVENUES	<u>\$9,410,000</u>

Section 3. Parks, Recreation, and Cultural Resources Capital Improvements Fund Projects **\$13,364,371**

REVENUES

RESTRICTED FUND BALANCE	\$4,450,000
UNRESTRICTED FUND BALANCE	1,774,000
CONTRIBUTIONS	70,000
INTERLOCAL REVENUE	2,963,871
GENERAL FUND TRANSFER	4,106,500
TOTAL REVENUES	<u>\$13,364,371</u>

Section 4. General Government Capital Improvements Fund Projects **\$4,852,000**

REVENUES

UNRESTRICTED FUND BALANCE	\$880,000
GENERAL FUND TRANSFER	1,972,000
INSTALLMENT PURCHASE DEBT	2,000,000
TOTAL REVENUES	<u>\$4,852,000</u>

Section 5. Downtown Capital Improvements Fund Projects **\$5,300,000**

REVENUES

UNRESTRICTED FUND BALANCE	\$150,000
GENERAL FUND TRANSFER	5,150,000
TOTAL REVENUES	<u>\$5,300,000</u>

Section 6. General Capital Reserve Fund Budget

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

REVENUES

VEHICLE LICENSE FEES	\$1,126,362
POWELL BILL FUNDS	3,749,860
INTEREST EARNED	1,007,250
UTILITY FRANCHISE FEES	569,592
TRANSPORTATION DEVELOPMENT FEES	945,198
CONTRIBUTIONS	70,000

APPROPRIATION FROM FUND BALANCE:

POWELL BILL	926,579
VEHICLE LICENSE FEES	1,958,922
TRANSPORTATION DEVELOPMENT FEES	1,500,000
RECREATION-IN-LIEU PARKS	1,362,579
RECREATION-IN-LIEU GREENWAYS	245,810
RECREATION-IN-LIEU WEST	2,340,559
RECREATION-IN-LIEU CENTRAL	501,052
UTILITY FRANCHISE FEES	930,000
UNRESTRICTED INTEREST EARNINGS	2,524,000

TOTAL REVENUES **\$19,757,763**

INTERFUND TRANSFERS

TRANSFER TO TRANSPORTATION CAPITAL PROJECTS FUND	\$7,665,000
TRANSFER TO FIRE CAPITAL PROJECTS FUND	650,000
TRANSFER TO PARKS & REC CAPITAL PROJECTS FUND	6,294,000
TRANSFER TO GENERAL GOVERNMENT CAPITAL PROJECTS FUND	880,000
TRANSFER TO DOWNTOWN CAPITAL PROJECTS FUND	150,000
RESERVE FOR CAPITAL NEEDS:	
TRANSPORTATION DEVELOPMENT FEES	945,198
POWELL BILL	676,439
VEHICLE LICENSE FEES	920,284
UNRESTRICTED INTEREST EARNINGS	1,007,250
UTILITY FRANCHISE FEES	569,592

TOTAL INTER-FUND TRANSFERS **\$19,757,763**

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 2017.

Section 9. Authorizations and Restrictions on the Budget Officer

- A. Interfund transfer of monies, except as noted in Section 7, 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 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 2017 fiscal year. The above revenue and expenditure authorizations shall extend from year to year until each individual project is complete.

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. Bond Revenues To Be Expended First

On all projects funded for FY 2017, any bond revenues designated as funding sources shall be transferred into the projects. Once the debt is issued, these funds will be expended prior to the transfer and expenditure of any other funding sources.

Section 13. Other Transfers and Adjustments

The following special transfers and/or adjustments are occurring through approval of the FY 2017 capital improvements budget:

Transportation

\$4,444,500 is being transferred from the general fund to existing capital project ST1204 Carpenter Fire Station Road/CSX Rail Grade. This same amount is reduced from the 2012 GO Referendum revenue source in that project resulting in no net change to ST1204 total project appropriations.

Fire

The existing FR1027 Fire Station #2 - E Chatham St project budget is reduced by \$1,000,000 of unissued 2012 GO Referendum and those funds are appropriated to the FR1048 Fire Station #9 - Walnut Street project.

FISCAL YEAR 2017 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 fifteen dollars (\$15.00). Ten dollars of the fee funds general transportation projects through the general capital reserve fund, and five dollars of the fee supports C-Tran operations through the transit fund.

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/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 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 summary presents projects funded by the Adopted Capital Improvements Budget for the Town of Cary, North Carolina for Fiscal Year 2017 which begins July 1, 2016 and ends June 30, 2017.

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 descriptions and cost estimates for each capital project and appropriates money for FY 2017. These funds remain available for expenditure until project completion which may extend beyond the end of Fiscal Year 2017.

The projects and their respective budgets funded in Fiscal Year 2017 are as follows:

Water Capital Improvements Fund

A.	500,000	Arthur Pierce Road Water Line Connector
B.	44,177	Bobcat - Water
C.	50,000	Cary-Apex-Chatham Interconnection
D.	100,000	Cary-Apex-Holly Springs Interconnection
E.	75,000	CAWTF - Clearwell Repainting
F.	200,000	CAWTF - Lake Aeration Mixing
G.	4,750,000	CAWTF - New Clearwell
H.	3,500,000	CAWTF - Process Basin Rehabilitation/Restoration
I.	5,000,000	Crossroads Ground Storage Tank and Booster Pump Station
J.	125,000	Davis Drive Booster Pump Station Modifications
K.	150,000	Elevated Water Storage Tank Repainting - Carpenter Tank
L.	306,216	Extend Water Mains
M.	664,000	Holly Brook Subdivision Water Lines
N.	40,000	Jordan Lake Partnership
O.	2,500,000	Kildaire Farm Road Water Line Reinforcement - Central
P.	1,000,000	New Water Storage Tank Sites
Q.	100,000	Remote Water System Programmable Logic Controller Replacements and SCADA Upgrades
R.	75,000	Towerview Court Water Line Interconnection
S.	127,110	Truck, Dump, 10-11 Cubic Yard - Water
T.	167,181	Truck, Dump, 12 - 14 Cubic Yard - Water
U.	123,279	Truck, with Crane, 0-25 Feet - Water
V.	5,000,000	Upgrade Water Lines
W.	100,000	Valve Operating and Exercising Machine
X.	152,000	Water Line Oversizings
Y.	50,000	Water Main Condition Assessment
Z.	196,715	Water Resource Planning and Management
AA.	400,000	Water Resources Master Plan
AB.	150,000	Water System - Air Release Valve Replacements
AC.	175,000	Water System - Critical Water Line Locating and Testing
AD.	125,000	Water System - Valve Replacements
	25,945,678	Water Subtotal

Sewer Capital Improvements Fund

A.	1,000,000	Basin W12 Regional Pump Station, Gravity Sewer and Force Main
B.	93,503	Bobcat - Sewer
C.	150,000	Carystone Pump Station Elimination
D.	426,800	Cleaning and Video Survey of Sewer Interceptors
E.	134,010	Extend Reclaimed Water Mains
F.	269,000	Holly Brook Phases I, II and III Sewer Extension
G.	2,000,000	Lower Swift Creek Parallel Interceptor
H.	150,000	MacGregor Park Pump Station Elimination
I.	50,000	NCWRF - Clarifier Equipment Repair and Replacement
J.	15,000	NCWRF - HVAC Replacements
K.	200,000	NCWRF - Mixer Replacements

CAPITAL IMPROVEMENTS BUDGET SUMMARY

Sewer Capital Improvements Fund - Continued

L.	90,000	NCWRF - Mobile Engine Driven Pump Replacement
M.	4,300,000	NCWRF - Partial and Full Diffused Air System
N.	1,570,000	RDU Center Pump Station Force Main Replacement
O.	159,500	Reclaimed Water Line Oversizings
P.	190,000	Sanitary Sewer Oversizings
Q.	5,985,982	Sewer System Repair/Rehabilitation
R.	200,000	SCWRF - Clarifier Equipment Repair and Replacement
S.	125,000	SCWRF - Demolition of Lagoons
T.	90,000	SCWRF - Generator Automated Transfer Switch Replacement
U.	100,000	SCWRF - Thermal Biosolids Dryer - Dewatered Cake Mixer Repair and Replacement
V.	50,000	SCWRF - Thermal Biosolids Dryer - Dewatered Cake Pump
W.	100,000	SCWRF - Thermal Biosolids Dryer - Induction Fan Replacement
X.	1,000,000	SCWRF - Thermal Biosolids Dryer - Rotary Drum Replacement
Y.	127,110	Truck, Dump, 10 - 11 Cubic Yard - Sewer
Z.	2,400,000	Upper Crabtree Creek Pump Station and Force Main
AA.	304,000	Van with Closed Circuit TV (Replacement) - Sewer
AB.	35,000	WWWRF - Process Instrumentation Analyzers
	\$21,314,905	Sewer Subtotal

\$47,260,583 Total Utility CIB

Transportation Capital Improvements Fund

A.	1,027,700	2012 Bond - Sidewalk Facilities
B.	15,000	Cary Transit (C Tran)
C.	3,250,000	Intersection Improvements
D.	1,000,000	Sidewalk and Pedestrian Improvements
E.	5,900,000	Street Improvement Project
	\$11,192,700	Transportation Subtotal

Fire Capital Improvements Fund

A.	1,400,000	Aerial Ladder Truck (New Company Northwestern Area)
B.	650,000	Fire Pumper Replacement
C.	7,150,000	Fire Station #9 (Walnut Street)
D.	210,000	Thermal Imaging Camera Replacement
	\$9,410,000	Fire Subtotal

Parks, Recreation and Cultural Resources Capital Improvements Fund

A.	72,000	Athletic Field Fencing Amenities Replacement
B.	96,000	Athletic Field Fencing Repair/Replacement
C.	75,000	Black Creek Greenway Renovations - Phases I, II & V
D.	450,000	Brooks Park Outfield Drainage Project
E.	275,000	Cary Tennis Park Court Renovations
F.	1,486,371	Cary Tennis Park - Interlocal
G.	100,000	DT - Downtown Park Future Phases Master Plan
H.	262,000	Greenway Resurfacing Projects
I.	130,000	Kids Together Playground - Misting Garden
J.	300,000	MacDonald Woods Park Restroom
K.	50,000	Mills Park Community Center Planning Funding
L.	100,000	Morris Branch (P-006) Neighborhood Park
M.	45,000	Park and Greenway Facility Sign Plan Implementation
N.	125,000	Park and Greenway Renovations
O.	83,000	Playground Surface Repairs/Replacement
P.	60,000	Public Art - Carpenter Park
Q.	40,000	Public Art- Kids Together Playground - Misting Garden
R.	330,000	Recreational Facility Improvements

CAPITAL IMPROVEMENTS BUDGET SUMMARY

Parks, Recreation and Cultural Resources Capital Improvements Fund - Continued

S.	90,000	Recreational Facility Sound System Replacements
T.	60,000	Tennis Court Fencing Repair/Replacement
U.	160,000	Tennis Court Renovations
V.	4,925,000	USA Baseball National Training Facility Improvements - Interlocal
W.	50,000	Western Cary Disc Golf
X.	4,000,000	White Oak Creek Greenway - MacArthur Park Section
	<u>\$13,364,371</u>	PRCR Subtotal

General Government Capital Improvements Fund

A.	75,000	AH - Downtown Rehab and Façade Improvement Program
B.	25,000	AH - Minimum Housing Demolition
C.	150,000	AH - Owner Occupied Housing Rehabilitation Program
D.	575,000	Application Software Replacement
E.	197,000	Cary TV 11 Equipment Replacement
F.	2,200,000	Evidence Room Expansion or Relocation
G.	300,000	Heavy Equipment Replacement Project
H.	400,000	Roof Assessment and Rehabilitation Program
I.	900,000	Sanitation and Recycling Truck Replacement
J.	30,000	Upgrade Pedestrian Crossings - Relocation of Push Buttons
	<u>\$4,852,000</u>	General Government Subtotal

Downtown Capital Improvements Fund

A.	5,000,000	DT - Downtown Development Opportunities
B.	300,000	DT - Downtown Improvements
	<u>\$5,300,000</u>	Downtown Subtotal

\$44,119,071 **Total General CIB**

\$91,379,654 **Total General and Utility CIB**

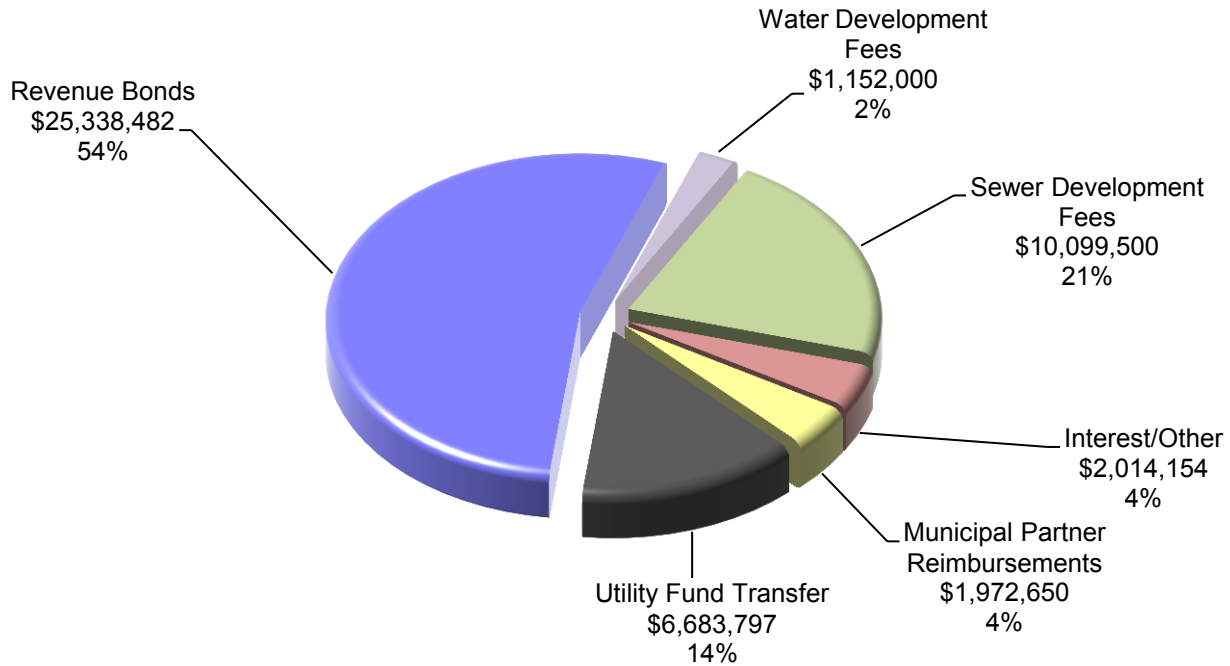
UTILITY CAPITAL RESERVE SUMMARY

	Actual 2013	Actual 2014	Actual 2015	Estimated 2016	Budget 2017
REVENUES					
Investment Earnings	627,624	872,158	885,228	1,091,585	1,388,123
Unrealized (Loss) Gain on Investment Earnings	(350,941)	(274,213)	(108,323)	(108,323)	(108,323)
Net Investment Earnings	276,683	597,945	776,905	1,022,964	1,279,800
Water Development Fee	5,153,117	5,382,286	4,356,029	3,706,800	3,367,698
Sewer Development Fee	7,864,151	8,584,202	6,371,970	5,801,260	5,122,321
Reclaimed Water Development Fee/ Payment in Lieu	---	36,225	21,950	261,895	---
TOTAL REVENUES	13,293,951	14,600,658	11,526,854	10,792,919	9,769,819
OTHER FINANCING SOURCES (USES)					
Water Projects Fund	(7,578,347)	(16,161,729)	(8,802,645)	(9,970,988)	(2,286,119)
Sewer Projects Fund	(1,554,331)	(922,209)	723,046	(5,351,946)	(10,979,535)
Funds Returned to Fund Balance	---	---	724,934	---	---
TOTAL OTHER FINANCING SOURCES (USES)	(9,132,678)	(17,083,938)	(7,354,665)	(15,322,934)	(13,265,654)
Net Income (Loss)	4,161,273	(2,483,280)	4,172,189	(4,530,015)	(3,495,835)
Net Income (Loss) Adjusted	4,161,273	(2,483,280)	4,172,189	(4,530,015)	(3,495,835)
Fund Equity-Start of Year	38,943,509	43,104,782	40,621,502	44,793,691	40,263,676
Prior Year Equity Adjustment	4,598,743	5,415,026	---	---	---
Adjustment to Accrual	816,283	398,187	73,617	---	---
* Net Assets-End of Year	48,519,808	46,434,715	44,867,308	40,263,676	36,767,841
* Fund Equity-End of Year	43,104,782	40,621,502	44,793,691	40,263,676	36,767,841
** Undesignated Fund Equity-End of Year	42,753,841	40,347,289	44,685,368	40,155,353	36,659,518

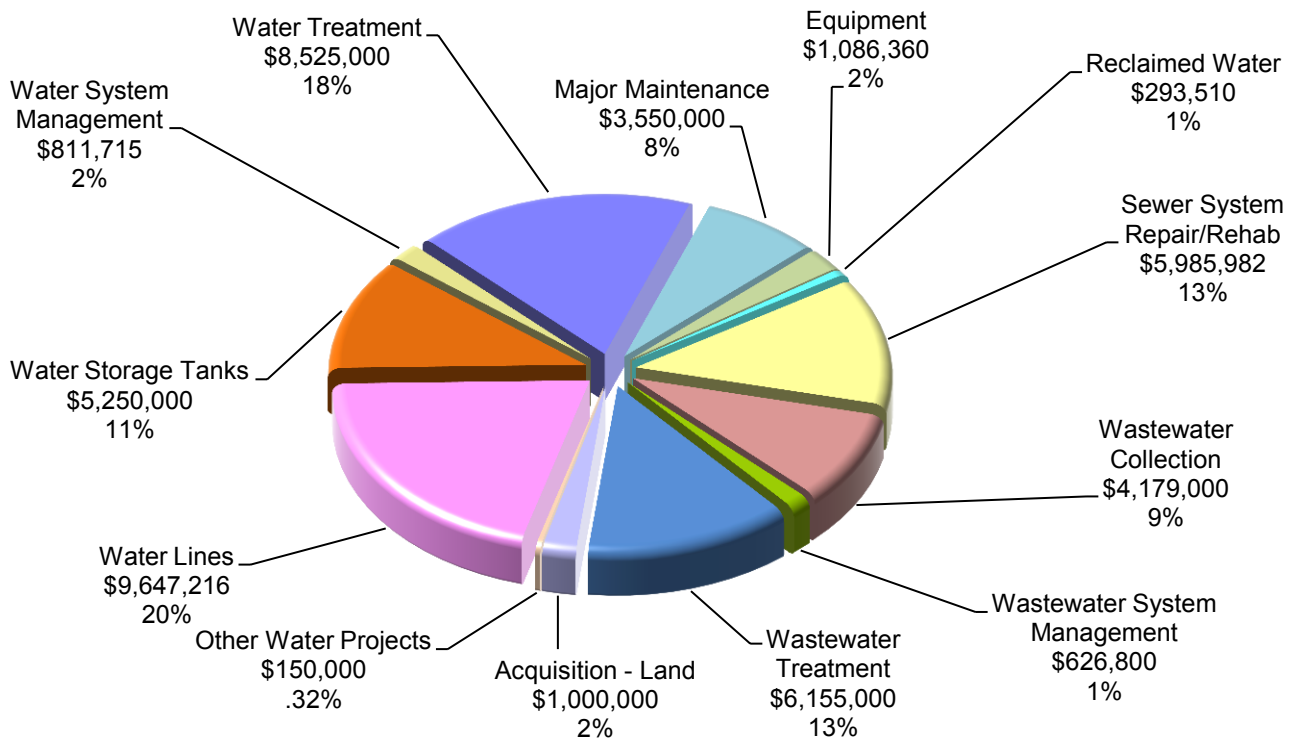
* "Net Assets-End of Year" includes non-expendable accounting adjustments, while "Fund Equity-End of Year" represents available cash reserves.

** "Undesignated Fund Equity-End of Year" represents fund equity available for future appropriation.

FY 2017 UTILITY CAPITAL IMPROVEMENTS FUNDING SOURCES = \$47,260,583



FY 2017 UTILITY CAPITAL IMPROVEMENTS EXPENDITURES = \$47,260,583



UTILITY CAPITAL IMPROVEMENTS BUDGET BY FUNDING SOURCE

Project Name	FY 2017 Adopted	Unrestricted Investment Income	Unrestricted Utility Fund Transfer	Restricted Water	Restricted Sewer	Revenue Bonds	Restricted Town of Apex Reimbursement
Water							
Arthur Pierce Road Water Line Connector	500,000	-	-	-	-	500,000	-
Bobcat - Water	44,177	-	44,177	-	-	-	-
Cary-Apex-Chatham Interconnection	50,000	50,000	-	-	-	-	-
Cary-Apex-Holly Springs Interconnection	100,000	100,000	-	-	-	-	-
CAWTF - Clearwell Repainting	75,000	57,750	-	-	-	-	17,250
CAWTF - Lake Aeration Mixing	200,000	154,000	-	-	-	-	46,000
CAWTF - New Clearwell	4,750,000	-	-	-	-	3,657,500	1,092,500
CAWTF - Process Basin Rehabilitation/Restoration	3,500,000	-	-	-	-	2,695,000	805,000
Crossroads Ground Storage Tank and Booster Pump Station	5,000,000	-	-	-	-	5,000,000	-
Davis Drive Booster Pump Station Modifications	125,000	125,000	-	-	-	-	-
Elevated Water Storage Tank Repainting - Carpenter Tank	150,000	-	150,000	-	-	-	-
Extend Water Mains	306,216	-	306,216	-	-	-	-
Holly Brook Subdivision Water Lines	664,000	-	664,000	-	-	-	-
Jordan Lake Partnership	40,000	40,000	-	-	-	-	-
Kildaire Farm Road Water Line Reinforcement - Central	2,500,000	-	-	-	-	2,500,000	-
New Water Storage Tank Sites	1,000,000	-	-	1,000,000	-	-	-
Remote Water System Programmable Logic Controller Replacements and SCADA Upgrades	100,000	100,000	-	-	-	-	-
Towerview Court Water Line Interconnection	75,000	75,000	-	-	-	-	-
Truck, Dump, 10-11 Cubic Yard - Water	127,110	-	127,110	-	-	-	-
Truck, Dump, 12 - 14 Cubic Yards - Water	167,181	-	167,181	-	-	-	-
Truck, with Crane, 0-25 Feet - Water	123,279	-	123,279	-	-	-	-
Upgrade Water Lines	5,000,000	-	-	-	-	5,000,000	-
Valve Operating and Exercising Machine	100,000	-	100,000	-	-	-	-
Water Line Oversizings	152,000	-	-	152,000	-	-	-
Water Main Condition Assessment	50,000	50,000	-	-	-	-	-
Water Resource Planning and Management	196,715	-	196,715	-	-	-	-
Water Resources Master Plan	400,000	57,369	342,631	-	-	-	-
Water System - Air Release Valve Replacements	150,000	150,000	-	-	-	-	-
Water System - Critical Water Line Locating and Testing	175,000	175,000	-	-	-	-	-
Water System - Valve Replacements	125,000	-	125,000	-	-	-	-
TOTAL FY 2017 WATER ADOPTED CIB	\$25,945,678	\$1,134,119	\$2,346,309	\$1,152,000	-	\$19,352,500	\$1,960,750

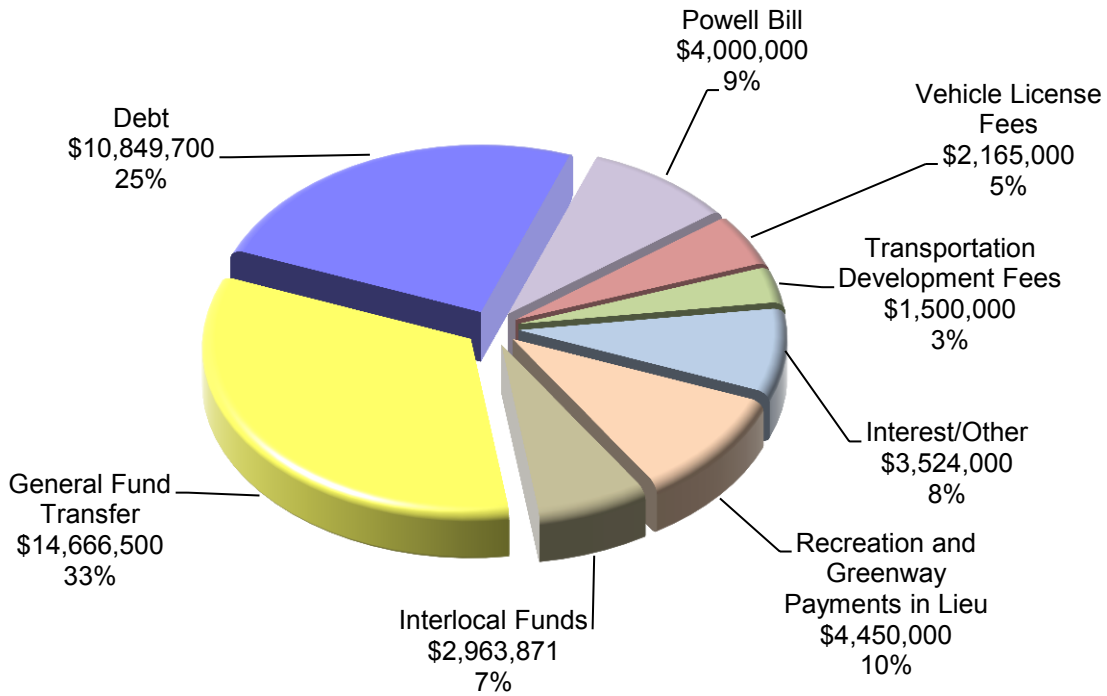
**UTILITY CAPITAL IMPROVEMENTS BUDGET
BY FUNDING SOURCE**

Project Name	FY 2017 Adopted	Unrestricted Investment Income	Unrestricted Utility Fund Transfer	Restricted Water	Restricted Sewer	Revenue Bonds	Restricted Town of Apex Reimbursement
Sewer							
Basin W12 Regional Pump Station, Gravity Sewer and Force Main	1,000,000	-	-	-	1,000,000	-	-
Bobcat - Sewer	93,503	-	93,503	-	-	-	-
Carystone Pump Station Elimination	150,000	150,000	-	-	-	-	-
Cleaning and Video Survey of Sewer Interceptors	426,800	-	426,800	-	-	-	-
Extend Reclaimed Water Mains	134,010	-	-	-	134,010	-	-
Hollybrook Ph I, II, III Sewer Extension	269,000	-	269,000	-	-	-	-
Lower Swift Creek Parallel Interceptor	2,000,000	-	-	-	2,000,000	-	-
MacGregor Park Pump Station Elimination	150,000	150,000	-	-	-	-	-
NCWRF - Clarifier Equipment Repair and Replacement	50,000	-	-	-	50,000	-	-
NCWRF - HVAC Replacements	15,000	15,000	-	-	-	-	-
NCWRF - Mixer Replacements	200,000	200,000	-	-	-	-	-
NCWRF - Mobile Engine Driven Pump Replacement	90,000	-	-	-	90,000	-	-
NCWRF - Partial and Full Diffused Air System	4,300,000	-	-	-	4,300,000	-	-
RDU Center Pump Station Force Main Replacement	1,570,000	-	1,570,000	-	-	-	-
Reclaimed Water Line Oversizings	159,500	-	-	-	159,500	-	-
Sanitary Sewer Oversizings	190,000	-	-	-	190,000	-	-
SCWRF - Clarifier Equipment Repair and Replacement	200,000	-	200,000	-	-	-	-
SCWRF - Demolition of Lagoons	125,000	-	125,000	-	-	-	-
SCWRF- Generator Automated Transfer Switch Replacement	90,000	-	21,575	-	68,425	-	-
SCWRF - Thermal Biosolids Dryer - Dewatered Cake Mixer Repair and Replacement	100,000	-	50,500	-	49,500	-	-
SCWRF - Thermal Biosolids Dryer - Dewatered Cake Pump	50,000	-	50,000	-	-	-	-
SCWRF - Thermal Biosolids Dryer - Induction Fan Replacement	100,000	-	100,000	-	-	-	-
SCWRF - Thermal Biosolids Dryer - Rotary Drum Replacement	1,000,000	-	1,000,000	-	-	-	-
Sewer System Repair/Rehabilitation	5,985,982	-	-	-	-	5,985,982	-
Truck, Dump, 10 - 11 Cubic Yard - Sewer	127,110	-	127,110	-	-	-	-
Upper Crabtree Creek Pump Station and Force Main	2,400,000	-	-	-	2,400,000	-	-
Van with CCTV - Sewer (Replacement)	304,000	-	304,000	-	-	-	-
WWWRF - Process Instrumentation Analyzers	35,000	-	-	-	23,100	-	11,900
TOTAL FY 2017 SEWER ADOPTED CIB	\$21,314,905	\$515,000	\$4,337,488	-	\$10,464,535	\$5,985,982	\$11,900
GRAND TOTAL - ADOPTED FY 2017 CIB	\$47,260,583	\$1,649,119	\$6,683,797	\$1,152,000	\$10,464,535	\$25,338,482	\$1,972,650

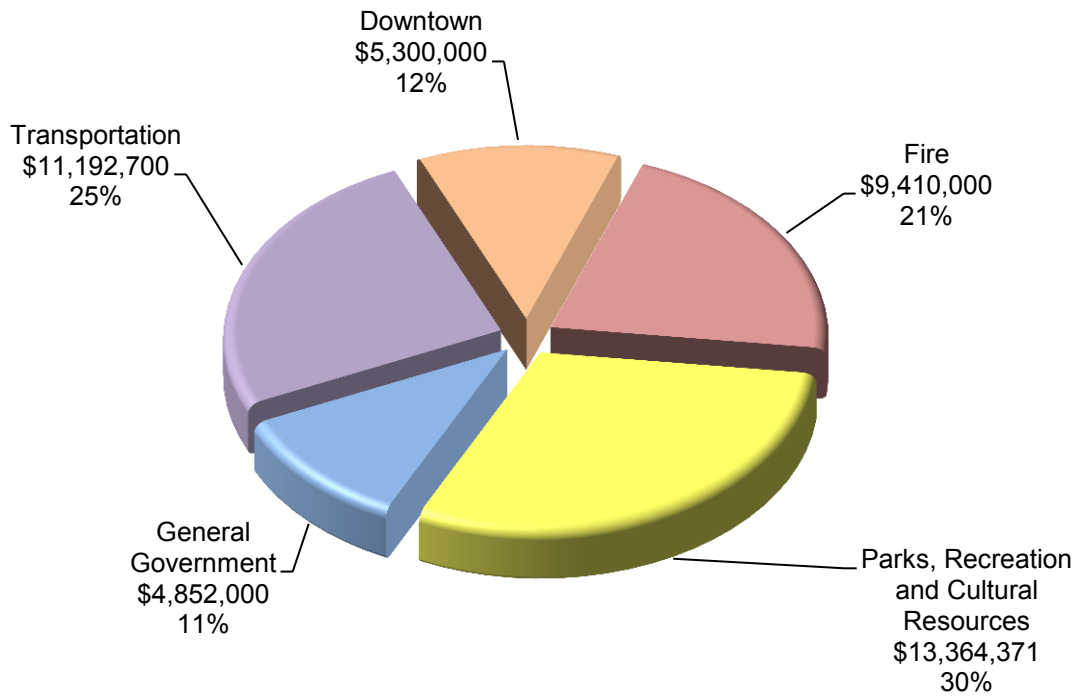
GENERAL CAPITAL RESERVE SUMMARY

	Actual 2013	Actual 2014	Actual 2015	Estimated 2016	Budget 2017
REVENUES					
Investment Earnings	435,629	653,929	739,346	871,581	1,095,937
Unrealized (Loss) Gain on Investment Earnings	(221,217)	(236,197)	(88,687)	(88,687)	(88,687)
Net Investment Earnings	214,412	417,732	650,659	853,402	1,007,250
Transportation Development Fees	1,290,667	1,485,900	911,166	1,594,871	945,198
Vehicle License Fees	1,103,090	1,445,632	1,372,801	1,136,273	1,126,362
Powell Bill	3,559,419	3,677,908	3,726,916	3,787,821	3,749,860
Special Recreation Payment In Lieu	1,160,443	2,577,810	3,059,159	4,638,421	---
Parks Contributions	---	---	---	---	70,000
Interlocal Revenue	400,000	1,000,000	1,000,000	---	---
Payment in Lieu of Streets	509,449	625,415	1,384,823	843,428	---
Payment in Lieu - Street Lighting	---	22,350	1,586	---	---
Utility Franchise Fee	620,603	602,028	619,850	581,989	569,592
Miscellaneous	---	81,512	---	---	---
TOTAL REVENUES	8,858,083	11,936,287	12,726,960	13,436,205	7,468,262
OTHER FINANCING SOURCES (USES)					
Transfer to Transportation Capital Improv. Fund	(5,057,111)	(5,730,856)	(8,095,838)	(15,259,534)	(7,665,000)
Transfer to Fire Capital Improv. Fund	441,967	69,760	589,461	(650,000)	(650,000)
Transfer to Parks & Rec. Capital Improv. Fund	(1,818,829)	(1,952,989)	(5,618,795)	(1,539,000)	(6,294,000)
Transfer to General Gov't Capital Improv. Fund	1,150,650	(1,144,360)	1,624,922	(2,277,400)	(880,000)
Transfer to General Fund for Debt Service	---	(4,500,000)	---	---	---
Transfer to Downtown Capital Improv. Fund	(50,000)	---	2	---	(150,000)
Funds Returned to Fund Balance	---	---	---	92,764	---
Transfers From General Fund	---	---	---	4,444,534	---
TOTAL OTHER FINANCING SOURCES	(5,333,323)	(13,258,445)	(11,500,248)	(15,188,636)	(15,639,000)
Revenues and Other Sources Over (Under)					
Expenditures and Other Uses	3,524,760	(1,322,158)	1,226,712	(1,752,431)	(8,170,738)
Fund Balance - Start of Year	23,954,375	27,479,135	26,156,977	27,383,689	25,631,258
Equity Transfers In (Out)	---	---	---	---	---
Fund Balance - End of Year	27,479,135	26,156,977	27,383,689	25,631,258	17,460,520
Undesignated Fund Balance - End of Year	27,257,918	25,920,780	27,295,002	25,542,571	17,371,833

FY 2017 GENERAL CAPITAL IMPROVEMENTS FUNDING SOURCES = \$44,119,071



FY 2017 GENERAL CAPITAL IMPROVEMENTS EXPENDITURES = \$44,119,071



**GENERAL CAPITAL IMPROVEMENTS BUDGET
BY FUNDING SOURCE**

Project Name	FY 2017 Adopted	Debt Funding	Unrestricted Investment Income	Unrestricted Utility Franchise Fees	Unrestricted General Fund Transfer	Restricted Transportation	Restricted Park & Greenway	Restricted Interlocal
Transportation								
2012 Bond - Sidewalk Facilities	1,027,700	1,027,700	-	-	-	-	-	-
Cary Transit (C-Tran)	15,000	-	-	-	-	15,000	-	-
Intersection Improvements	3,250,000	-	-	-	-	3,250,000	-	-
Sidewalk and Pedestrian Improvements	1,000,000	-	-	-	1,000,000	-	-	-
Street Improvement Project	5,900,000	-	-	-	1,500,000	4,400,000	-	-
TOTAL FY 2017 TRANSPORTATION ADOPTED CIB	\$11,192,700	\$1,027,700	-	-	\$2,500,000	\$7,665,000	-	-
Fire								
Aerial Ladder Truck (New Company Northwestern Area)	1,400,000	672,000	-	-	728,000	-	-	-
Fire Pumper Replacement	650,000	-	-	650,000	-	-	-	-
Fire Station #9 (Walnut Street)	7,150,000	7,150,000	-	-	-	-	-	-
Thermal Imaging Camera Replacement	210,000	-	-	-	210,000	-	-	-
TOTAL FY 2017 FIRE ADOPTED CIB	\$9,410,000	\$7,822,000	-	650,000	\$938,000	-	-	-
Parks, Recreation and Cultural Resources								
Athletic Field Fencing Amenities Replacement	72,000	-	72,000	-	-	-	-	-
Athletic Field Fencing Repair/Replacement	96,000	-	96,000	-	-	-	-	-
Black Creek Greenway Renovations - Phases I, II & V	75,000	-	-	-	75,000	-	-	-
Brooks Park Outfield Drainage Project	450,000	-	450,000	-	-	-	-	-
Cary Tennis Park Court Renovations	275,000	-	275,000	-	-	-	-	-
Cary Tennis Park - Interlocal	1,486,371	-	-	-	-	-	250,000	1,236,371
DT - Downtown Park Future Phases Master Plan	100,000	-	-	-	100,000	-	-	-
Greenway Resurfacing Projects	262,000	-	-	-	262,000	-	-	-
Kids Together Playground - Misting Garden	130,000	-	90,000	-	-	-	40,000	-
MacDonald Woods Park Restrooms	300,000	-	-	-	300,000	-	-	-
Mills Park Community Center Planning Funding	50,000	-	-	-	-	-	50,000	-
Morris Branch (P-006) Neighborhood Park	100,000	-	-	-	-	-	100,000	-
Park and Greenway Renovations	125,000	-	125,000	-	-	-	-	-
Park and Greenway Facility Sign Plan	45,000	-	45,000	-	-	-	-	-
Playground Surface Repairs/Replacement	83,000	-	83,000	-	-	-	-	-
Public Art - Carpenter Park	60,000	-	30,000	-	-	-	30,000	-
Public Art - Kids Together Playground - Misting Garden	40,000	-	-	-	40,000	-	-	-
Recreational Facility Improvements	330,000	-	288,000	-	42,000	-	-	-
Recreational Facility Sound System Replacements	90,000	-	-	-	90,000	-	-	-
Tennis Court Fencing Repair/Replacement	60,000	-	60,000	-	-	-	-	-
Tennis Court Renovations	160,000	-	160,000	-	-	-	-	-
USA Baseball National Training Facility Improvements - Interlocal	4,925,000	-	-	-	3,197,500	-	-	1,727,500
Western Cary Disc Golf	50,000	-	-	-	-	-	50,000	-
White Oak Creek Greenway - MacArthur Park Section	4,000,000	-	-	-	-	-	4,000,000	-
TOTAL FY 2017 PRCR ADOPTED CIB	\$13,364,371	-	\$1,774,000	-	\$4,106,500	-	\$4,520,000	\$2,963,871

GENERAL CAPITAL IMPROVEMENTS BUDGET BY FUNDING SOURCE

Project Name	FY 2017 Adopted	Debt Funding	Unrestricted Investment Income	Unrestricted Utility Franchise Fees	Unrestricted General Fund Transfer	Restricted Transportation	Restricted Park & Greenway	Restricted Interlocal
General Government								
AH - Downtown Rehab and Façade Improvement Program	75,000	-	-	75,000	-	-	-	-
AH - Minimum Housing Demolition	25,000	-	-	25,000	-	-	-	-
AH - Owner Occupied Housing Rehab and Façade Improvement Program	150,000	-	-	150,000	-	-	-	-
Application Software Replacement	575,000	-	-	-	575,000	-	-	-
Cary TV 11 Equipment Replacement	197,000	-	-	-	197,000	-	-	-
Evidence Room Expansion or Relocation	2,200,000	2,000,000	200,000	-	-	-	-	-
Heavy Equipment Replacement Project	300,000	-	-	-	300,000	-	-	-
Roof Assessment and Rehabilitation Program	400,000	-	400,000	-	-	-	-	-
Sanitation and Recycling Truck Replacement	900,000	-	-	-	900,000	-	-	-
Upgrade Pedestrian Crossings - Relocation of Push Buttons	30,000	-	-	30,000	-	-	-	-
TOTAL FY 2017 GENERAL GOVERNMENT ADOPTED CIB	\$4,852,000	\$2,000,000	\$600,000	\$280,000	\$1,972,000	-	-	-
Downtown								
DT - Downtown Development Opportunities	5,000,000	-	-	-	5,000,000	-	-	-
DT - Downtown Improvements	300,000	-	150,000	-	150,000	-	-	-
TOTAL FY 2017 DOWNTOWN ADOPTED CIB	\$5,300,000	-	150,000	-	\$5,150,000	-	-	-
GRAND TOTAL - FY 2017 ADOPTED CIB	\$44,119,071	\$10,849,700	\$2,524,000	\$930,000	\$14,666,500	\$7,665,000	\$4,520,000	\$2,963,871

UTILITY CAPITAL IMPROVEMENTS BUDGET REVENUE AND FUNDING SOURCES

Revenue and funding sources and related historical trends for the Fiscal Year 2017 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 2016 estimated revenues and FY 2017 budgeted revenues.

UTILITY CAPITAL

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

Water

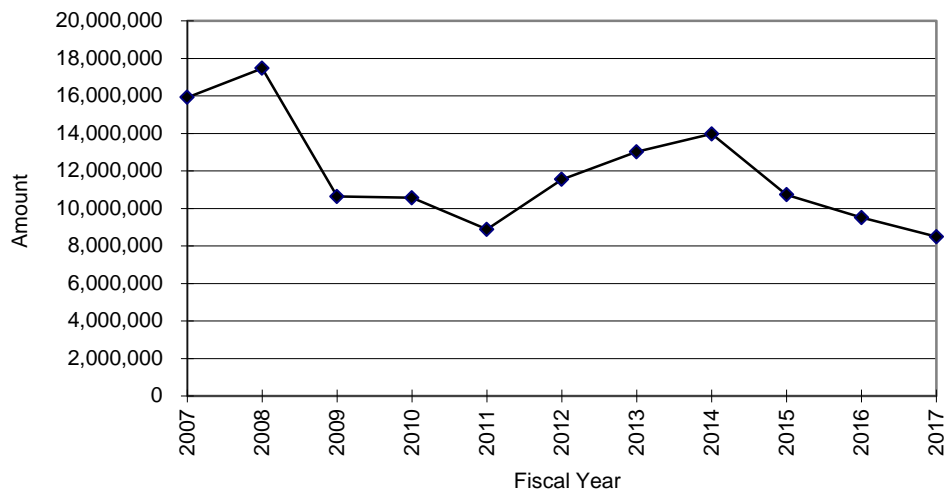
- Water Lines
- Water Storage Tanks
- Water Treatment Equipment
- Water Plant Expansions

Sewer

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

FUNDING SOURCES

- **Water and Sewer Development Fees: \$8,490,019**



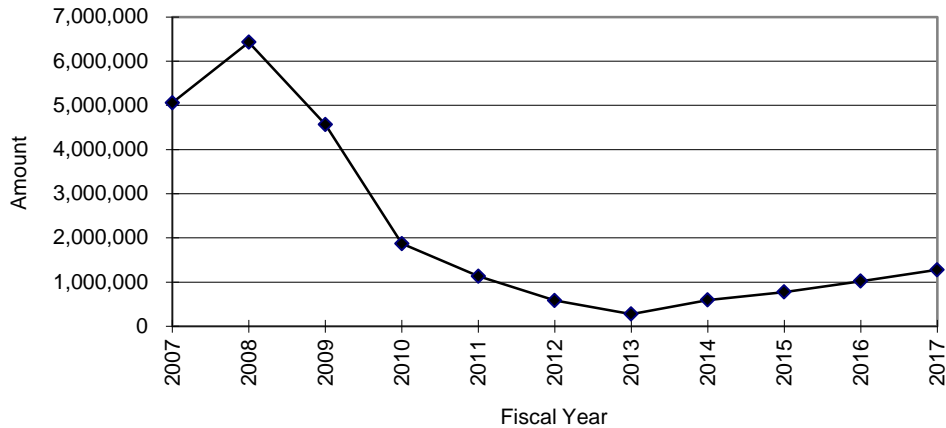
Water and sewer development fees were created in FY 1999 to replace water and sewer acreage and connection fees. Water and sewer development fees are paid at the time of permit issuance in order to help cover costs associated with water and sewer infrastructure and/or capacity needs of new development. These fees vary based on residential, commercial and multi-family development type, size, and system capacity utilized.

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 revenue is estimated at \$9,508,060 for FY 2016. This is 11% less than FY 2015 actual receipts. Residential and commercial building permits (new construction only) are estimated at 1,048 for FY 2016 and 1,029 for FY 2017. The FY 2017 estimate of 1,029 permits is 2% higher than FY 2015 actual and 2% lower than FY 2016 estimated. To maintain a conservative fiscal approach, FY 2017 estimated water and sewer development fee revenues of \$8,490,019 are 11% lower than anticipated FY 2016 revenues.

Building permit levels and development fee earnings will be monitored closely in FY 2017 and estimates will be adjusted upward should development activity substantially increase.

- **Interest Earned: \$1,279,800**



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 75% of this income and sewer projects receiving 25%.

At \$276,683, FY 2013 saw the lowest level of interest earnings for the FYs 2007 – 2017 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 2016 interest revenue is estimated at \$1,022,964 or 32% higher than FY 2015 earnings. FY 2017 interest earnings are projected to increase 25% to \$1,279,800 based on rising interest rates.

- **Revenue Bond Debt: \$25,338,482**

The FY 2017 utility capital improvements budget reflects \$25,338,482 in revenue bond debt proceeds as a funding source for six water capital projects and one sewer project. The repayment of this debt is factored into the Town’s utility rate forecasts and is supported by the utility rate.

\$ 500,000	Arthur Pierce Road Water Line Connector
\$3,657,500	Cary/Apex Water Treatment Facility – New Clearwell
\$2,695,000	Cary/Apex Water Treatment Facility – Process Basin Rehabilitation/Restoration
\$5,000,000	Crossroads Ground Storage Tank and Booster Pump Station
\$2,500,000	Kildaire Farm Road Water Line Reinforcement – Central
\$5,000,000	Upgrade Water Lines
\$5,985,982	Sewer System Repair/Rehabilitation

- **Utility Fund Transfers: \$6,683,797**

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 2017 capital improvements budget includes a \$6,683,797 utility fund transfer in support of water and sewer utility capital needs.

- **Town of Apex Reimbursement for Cary/Apex Water Treatment Plant: \$1,972,650**

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 2017 total capital appropriation for Cary/Apex Water Treatment Plant projects is \$8,525,000. The 23% Town of Apex reimbursement amount related to these capital appropriations is \$1,960,750.

The Town of Apex is also a partner in the Western Wake Water Reclamation Facility which is managed by the Town of Cary. The FY 2017 capital improvements budget appropriates a total of \$35,000 for the replacement of process instrumentation analyzers at this facility. The Town of Apex will reimburse the Town of Cary 34%, or \$11,900 for this equipment.

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/rehab

FUNDING SOURCES

• **General Fund Transfer: \$14,666,500**

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 2017 total \$14,666,500 and support a variety of transportation, fire, PRCR, general government and downtown projects.

• **General Obligation Bond Debt: \$2,027,700**

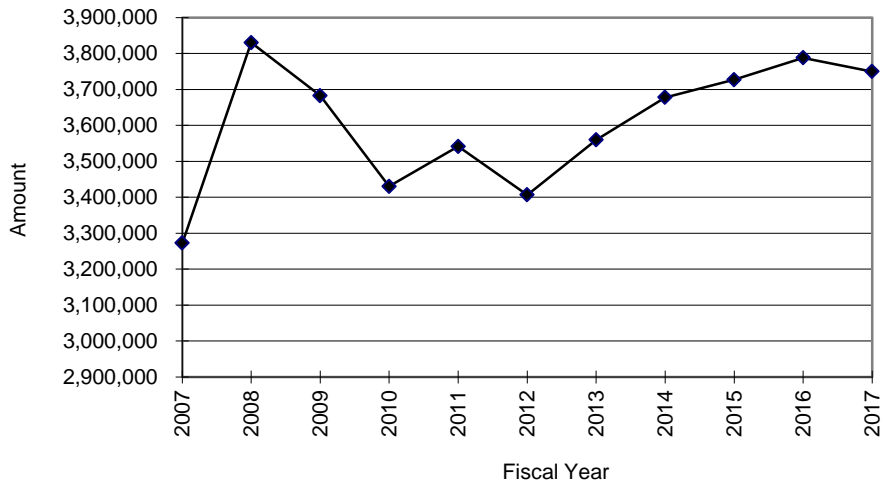
The FY 2017 capital improvements budget utilizes \$1,027,700 of unissued 2012 transportation-focused General Obligation Bond funds for completion of bond funded sidewalk projects. The FY 2017 CIB also directs \$1 million of unissued 2012 fire-focused General Obligation Bond funds to the design and construction of Fire Station #9 on Walnut Street. Repayment of this debt has been factored into the Town's general fund debt repayment schedule.

• **Installment Purchase Debt: \$8,822,000**

The FY 2017 capital improvements budget appropriates \$8,822,000 of installment purchase debt in support of all or a portion of the following projects. Repayment of this debt has been factored into the Town's general fund debt repayment schedule.

\$ 672,000	Aerial Ladder Truck (New Company Northwestern Area)
\$6,150,000	Fire Station #9 on Walnut Street
\$2,000,000	Evidence Room Expansion or Relocation (Police Department)

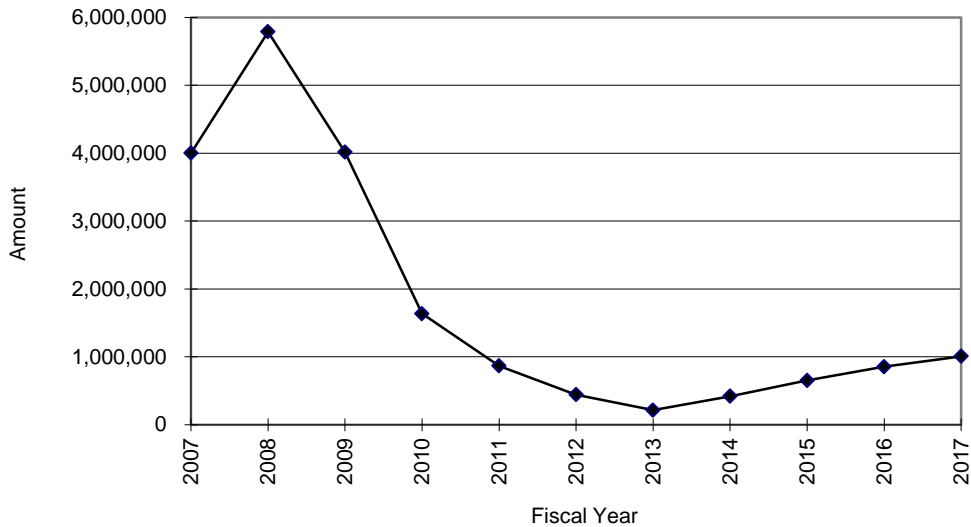
- **Powell Bill: \$3,749,860**



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 471.3 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 2016 revenues of \$3,787,821 represent actual receipts. The Town’s FY 2017 Powell Bill distribution is projected to be 1% less than FY 2016 actual receipts.

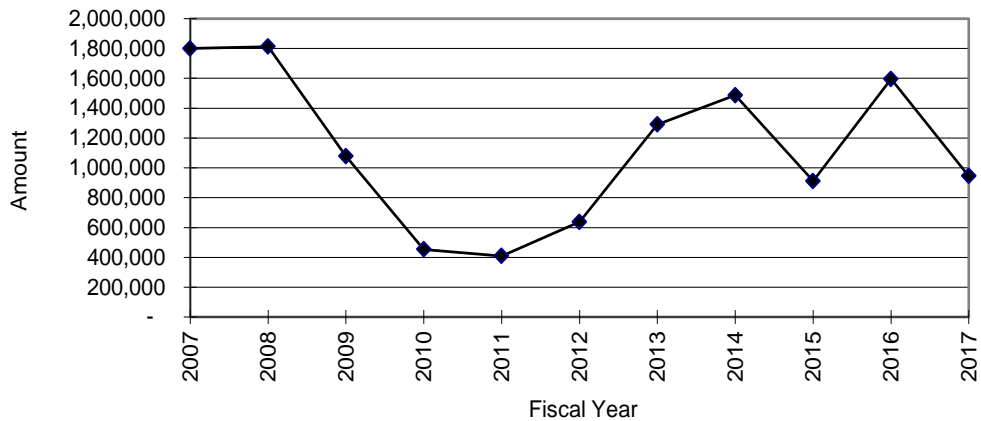
- **Interest Earned: \$1,007,250**



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 2016 interest revenue is estimated at \$853,402 or 31% higher than FY 2015 earnings. FY 2017 interest earnings are projected to increase 18% above estimated FY 2016 based on rising interest rates.

- **Transportation Development Fees: \$945,198**

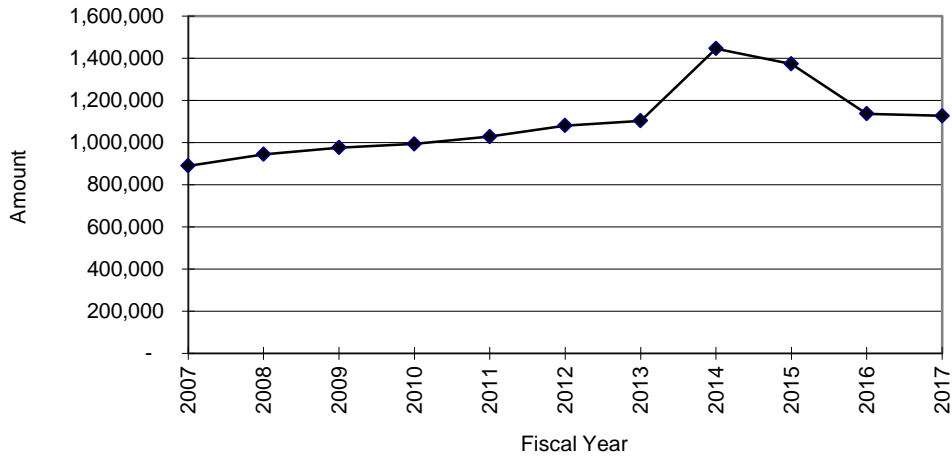


Transportation development fees (TDFs) are charged by the Town at the time of permit issuance for construction and improvement of thoroughfares to help support new development within the Town. Cary received authority to charge transportation development fees in 1987 with House Bill 684. The Town of Cary 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 2009 transportation development fee receipts of \$1,077,931 were 41% 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 2014 saw the first peak in the “post-downturn” recovery with revenues of \$1.5 million.

Transportation development fee revenue is estimated at \$1,594,871 for FY 2016 representing a 75% increase over FY 2015 actuals. FY 2016 receipts benefitted substantially from the permitting of a new office building on the campus of one of the Town of Cary’s largest employers. As a substantial one-time payment of this nature is not anticipated in FY 2017, this year’s TDF revenues are projected to increase 4% over FY 2015 actuals to \$945,198. The utilization of fee credits and reimbursements by developers can contribute to lower net revenue and are factored into the FY 2017 revenue estimate. Building permit levels and development fee earnings will be monitored closely in FY 2017 and estimates will be adjusted upward should development activity substantially increase.

- **Vehicle License Fees: \$1,126,362**



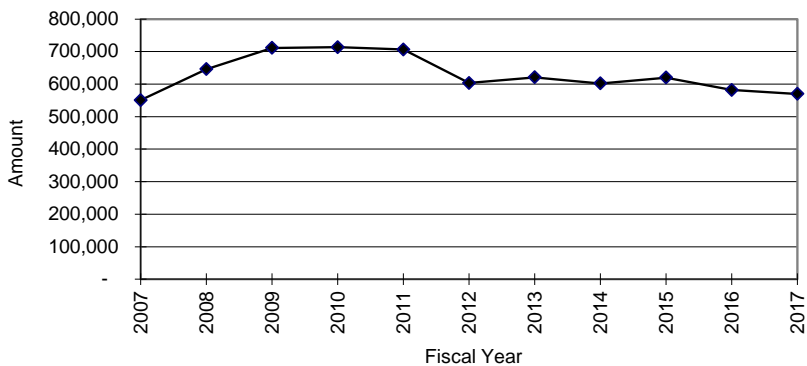
Vehicle license fee revenue is generated by the sale and/or renewal of vehicle licenses for vehicles owned by Cary residents. North Carolina General Statutes 20-97 and 20-97(a) give Cary the authority to impose a motor vehicle tax of not more than \$30 per year per resident vehicle for the following 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 2017 Town of Cary vehicle license fee remains unchanged at \$15 per resident vehicle per year. The vehicle tax constitutes \$10 of the fee, while the vehicle tax for public transportation makes up the remaining \$5.00. As \$5.00 of the Town’s \$15.00 fee is restricted to the Town’s mainstream transit service, revenue generated by that portion of the fee is budgeted in 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 2016 receipts, based on the \$10 portion of the fee, are projected to be \$1,136,273. The FY 2017 budget amount of \$1,126,362 is 1% lower than projected FY 2016 revenue.

- **Utility Franchise Fees: \$569,592**



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 2016 utility franchise fee receipts are projected to be \$581,989 or 6% less than FY 2015 receipts. FY 2017 budgeted revenues of \$569,592 represent a 2% decrease from the FY 2016 estimated amount to reflect the national trend in subscriber revenue for these services.

- **Interlocal Revenue: \$2,963,871**

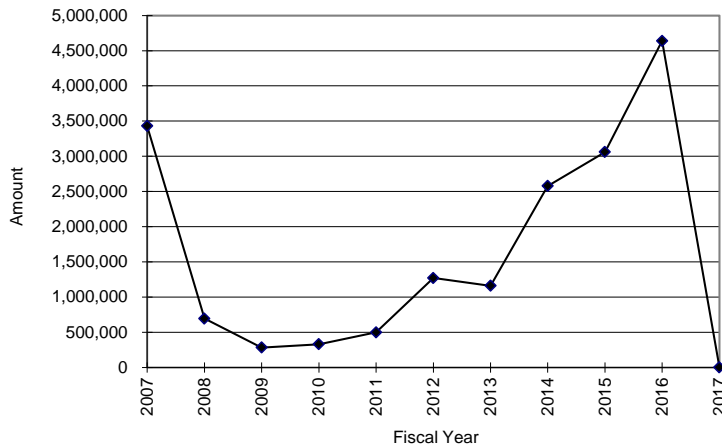
Hotel/motel occupancy tax and prepared food and beverage taxes are collected by Wake County and distributed according to a tiered schedule to Wake County, the City of Raleigh, the Greater Raleigh Convention and Visitors Bureau and the Town of Cary. While uses of the funds are specifically defined for 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.

- **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.

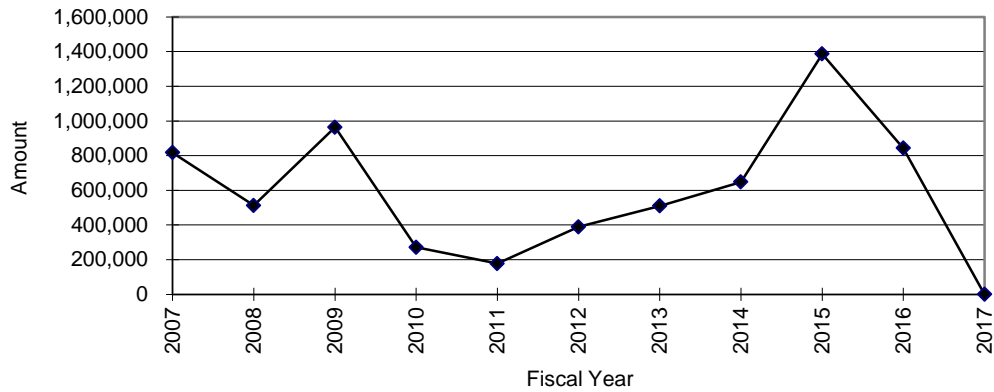
Should the land that a developer plan to dedicate lie within a FEMA 100 year floodplain, wetlands, regulated stream buffers or have slopes greater than 15% percent, land should be dedicated at a rate of at least 1/40th of an acre per dwelling unit. Such areas should be reflected on the subdivision plat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

\$4,638,421 in Parks Payment-in-Lieu fees was received as of April 2016. This figure is 52% greater than FY 2015 actual receipts of \$3,059,159.

- **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 are allowed to fall to fund balance where they are then appropriated in a future year.

\$843,428 in street, sidewalk and street light payment in lieu fees was received as of April 2016. This figure is 39% less than FY 2015 actual receipts of \$1,386,409.

- **Parks Contributions: \$70,000**

The Town of Cary will receive a total of \$70,000 in contributions for two Parks, Recreation and Cultural Resources projects as described below:

Kids Together Playground – Misting Garden - \$40,000

The Friends of Kids Together Playground organization is contributing \$40,000 to this project in FY 2017.

Public Art – Carpenter Park - \$30,000

The Cary Visual Art organization is contributing \$30,000 to this project in FY 2017

CUMULATIVE IMPACTS OF FYS 2017 – 2027 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 borne by the Town's operating budget.

The Town of Cary's capital budgeting process is such that costs of this nature are 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 provide a more accurate accounting of 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 2017 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 2018 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 2017 - 2027 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 2017 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	Intentionally Conservative Annual Inflation Percentage 5%									
				Plan Yr 2018	Plan Yr 2019	Plan Yr 2020	Plan Yr 2021	Plan Yr 2022	Plan Yr 2023	Plan Yr 2024	Plan Yr 2025	Plan Yr 2026	Plan Yr 2027
FIRE	Fire Apparatus	Aerial Ladder Truck Company (New Company Northwestern Area)	14,988,723	1,244,826	1,301,281	1,357,736	1,414,190	1,470,645	1,527,100	1,583,554	1,640,009	1,696,464	1,752,918
FIRE	Stations with Pumpers	Fire Station 10 (O'Kelly Chapel Road)	13,389,750	-	1,267,750	1,322,750	1,377,750	1,432,750	1,487,750	1,542,750	1,597,750	1,652,750	1,707,750
FIRE	Stations with Pumpers	Fire Station 11 (White Oak Church Road)	4,958,250	-	-	-	-	-	-	-	1,597,750	1,652,750	1,707,750
FIRE	Stations with Pumpers	Fire Station 12 (West Lake/Middle Creek)	3,513,250	-	-	-	-	-	-	-	-	1,727,875	1,785,375
GENERAL	Special Facilities for Operations	Garmon Operations Center Facility Improvements - Phase II	39,944	-	-	-	-	-	7,439	7,714	7,989	8,264	8,539
PARKS	Community Centers	Mills Park Community Center	3,546,000	-	-	-	-	-	-	841,500	871,500	901,500	931,500
PARKS	Parks	Green Level High School Park	76,375	-	-	-	-	-	-	-	-	37,563	38,813
PARKS	Parks	Macedonia Lake Neighborhood Park	90,150	-	-	-	-	-	-	-	-	29,050	30,050
PARKS	Parks	Morris Branch (P-006) Neighborhood Park	171,300	-	-	-	-	28,050	27,050	28,050	29,050	30,050	31,050
PARKS	Special Facilities	Cary Tennis Park Expansion - Interlocal	649,941	53,978	56,426	58,874	61,322	63,770	66,218	68,666	71,114	73,562	76,010
PARKS	Special Facilities	Safety Town for Kids	225,375	-	-	-	-	-	-	-	-	72,625	75,125
PARKS	Special Facilities	TCAP - Digital Arts Center	388,125	-	-	-	-	-	-	-	-	-	388,125
Total Estimated Personnel Impacts			42,037,183	1,298,804	2,625,457	2,739,360	2,853,262	2,993,215	3,115,557	4,072,234	5,916,837	7,885,952	8,536,505

Project Category	Project Type	Project Title	Total Projected O&M Cost Related to Projects in CIP	Intentionally Conservative Annual Inflation Percentage 5%									
				Plan Yr 2018	Plan Yr 2019	Plan Yr 2020	Plan Yr 2021	Plan Yr 2022	Plan Yr 2023	Plan Yr 2024	Plan Yr 2025	Plan Yr 2026	Plan Yr 2027
FIRE	Fire Apparatus	Aerial Ladder Truck Company (New Company Northwestern Area)	377,674	31,366	32,789	34,211	35,634	37,056	38,479	39,901	41,324	42,746	44,169
FIRE	Stations with Pumpers	Fire Station 9 (Walnut St.)	650,475	54,023	56,473	58,923	61,373	63,823	66,273	68,723	71,173	73,623	76,073
FIRE	Stations with Pumpers	Fire Station 10 (O'Kelly Chapel Road)	596,453	-	56,473	58,923	61,373	63,823	66,273	68,723	71,173	73,623	76,073
FIRE	Stations with Pumpers	Fire Station 11 (White Oak Church Road)	225,375	-	-	-	-	-	-	-	72,625	75,125	77,625
FIRE	Stations with Pumpers	Fire Station 11 Pumper	90,110	-	-	-	-	-	-	21,384	22,146	22,909	23,671
FIRE	Stations with Pumpers	West Lake Area - Middle Creek - Pumper	110,731	-	-	-	-	-	20,622	21,384	22,146	22,909	23,671
FIRE	Stations with Pumpers	Fire Station 12 (West Lake/Middle Creek)	152,750	-	-	-	-	-	-	-	-	75,125	77,625
FIRE	Stations with Pumpers	Fire Station 12 Pumper	68,726	-	-	-	-	-	-	-	22,146	22,909	23,671
GENERAL	Special Facilities for Operations	Garmon Operations Center Facility Improvements - Phase II	1,132,950	-	-	-	-	-	210,990	218,790	226,590	234,390	242,190
PARKS	Community Centers	Mills Park Community Center	8,865,000	-	-	-	-	-	-	2,103,750	2,178,750	2,253,750	2,328,750
PARKS	Greenways	Dutchman's Branch Greenway - Phase I	43,575	-	-	-	-	-	8,115	8,415	8,715	9,015	9,315
PARKS	Greenways	Middle Creek School Park/Greenway	47,280	-	-	-	-	-	-	11,220	11,620	12,020	12,420
PARKS	Greenways	O'Kelly Chapel Road Streetside Trail	43,575	-	-	-	-	-	8,115	8,415	8,715	9,015	9,315
PARKS	Greenways	Piney Plains Greenway - Phase II	43,575	-	-	-	-	-	8,115	8,415	8,715	9,015	9,315
PARKS	Greenways	Speight Branch Greenway - Phase II	54,090	-	-	-	-	-	-	-	17,430	18,030	18,630
PARKS	Greenways	White Oak Creek Greenway - MacArthur Park Section	48,690	-	4,610	4,810	5,010	5,210	5,410	5,610	5,810	6,010	6,210
PARKS	Parks	Dunham Park Improvements	72,803	-	-	-	-	11,071	11,496	11,921	12,346	12,771	13,196
PARKS	Parks	Green Level High School Park	381,875	-	-	-	-	-	-	-	-	187,813	194,063
PARKS	Parks	Kids Together Playground - Mistling Garden	66,375	5,513	5,763	6,013	6,263	6,513	6,763	7,013	7,263	7,513	7,763
PARKS	Parks	MacDonald Woods Park Restrooms	86,288	7,166	7,491	7,816	8,141	8,466	8,791	9,116	9,441	9,766	10,091
PARKS	Parks	Macedonia Lake Neighborhood Park	360,600	-	-	-	-	-	-	-	116,200	120,200	124,200
PARKS	Parks	Western Cary Disc Golf	577,463	47,959	50,134	52,309	54,484	56,659	58,834	61,009	63,184	65,359	67,534
PARKS	Parks	Morris Branch (P-006) Neighborhood Park	513,900	-	-	-	-	78,150	81,150	84,150	87,150	90,150	93,150
PARKS	Public Art	Public Art - Carpenter Park	19,913	1,654	1,729	1,804	1,879	1,954	2,029	2,104	2,179	2,254	2,329
PARKS	Public Art	Public Art - Kids Together Playground - Mistling Garden	6,638	551	576	601	626	651	676	701	726	751	776
PARKS	Public Art	Public Art - TCAP - Digital Arts Center	155,250	-	-	-	-	-	-	-	-	-	155,250
PARKS	Renovations - Park and Greenway	Dunham Park Improvements	83,449	-	-	-	10,646	11,071	11,496	11,921	12,346	12,771	13,196
PARKS	Special Facilities	Cary Tennis Park Expansion - Interlocal	1,319,578	109,592	114,562	119,532	124,503	129,473	134,443	139,413	144,383	149,353	154,323
PARKS	Special Facilities	Safety Town for Kids	45,075	-	-	-	-	-	-	-	14,525	15,025	15,525
PARKS	Special Facilities	TCAP - Digital Arts Center	305,500	-	-	-	-	-	-	-	-	150,250	155,250
PARKS	Special Facilities	USA Baseball National Training Facility Improvements - Interlocal	398,250	33,075	34,575	36,075	37,575	39,075	40,575	42,075	43,575	45,075	46,575
PARKS	Special Facilities	WakeMed Soccer Park Facility Improvements - Interlocal	59,955	-	-	-	-	9,118	9,468	9,818	10,168	10,518	10,868
PARKS	Special Projects	Park, Greenway and Facility Sign Plan Implementation	13,275	1,103	1,153	1,203	1,253	1,303	1,353	1,403	1,453	1,503	1,553
TRANSPORTATION	Control Systems	Signal System - Camera Coverage Expansion	6,086	-	576	601	626	651	676	701	726	751	776
WATER	Other Water Projects	Aquastar Additional Infrastructure	19,635	-	-	-	2,505	2,605	2,705	2,805	2,905	3,005	3,105
WATER	Water Storage Tanks	Kilmayne Water Storage Tank	198,360	-	-	21,645	22,545	23,445	24,345	25,245	26,145	27,045	27,945
Total Estimated Operating & Maintenance Impacts			17,241,293	292,001	366,902	404,465	434,434	550,115	827,189	2,994,123	3,343,792	3,872,084	4,156,189

Total Estimated Operating Impacts	59,278,476	1,590,805	2,992,359	3,143,824	3,287,696	3,543,330	3,942,746	7,066,357	9,260,629	11,758,036	12,692,694
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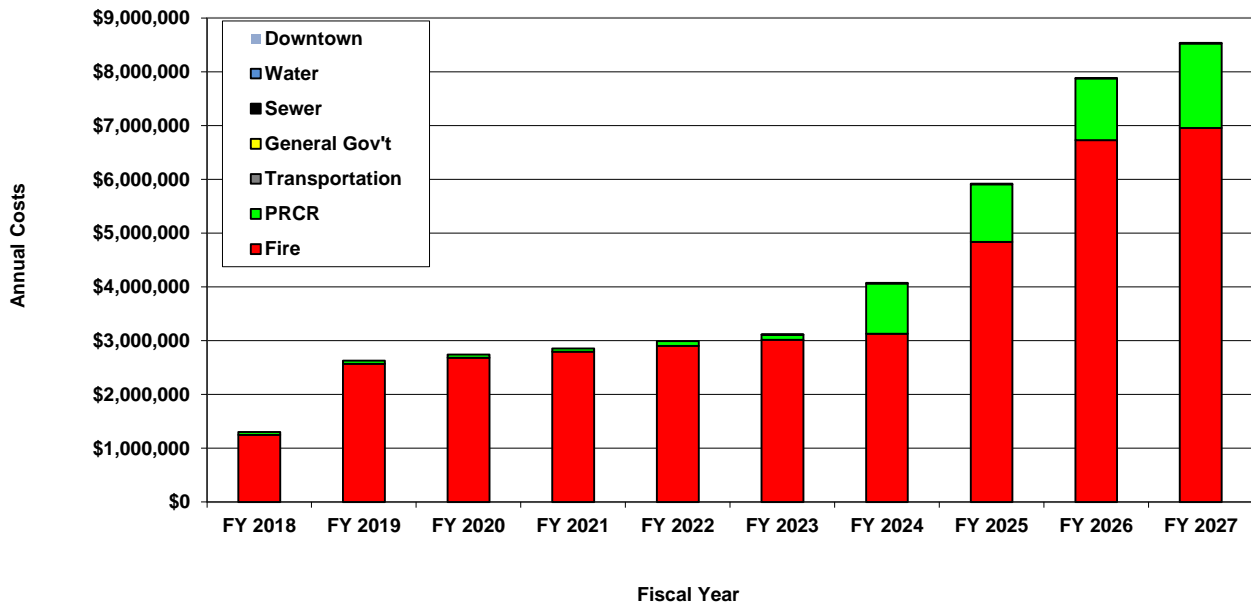
**CUMULATIVE IMPACTS OF FYS 2017- 2027
CAPITAL IMPROVEMENTS BUDGET/PLAN PROJECTS
ON FUTURE OPERATING BUDGETS
(BY OPERATING EXPENDITURE CATEGORY)**

PERSONNEL IMPACTS - presented by Capital Project Type

Fiscal Year of Impact	Water	Sewer	Transportation	Fire	PRCR	General Gov't	Downtown	Total
FY 2018	-	-	-	1,244,826	53,978	-	-	1,298,804
FY 2019	-	-	-	2,569,031	56,426	-	-	2,625,457
FY 2020	-	-	-	2,680,486	58,874	-	-	2,739,360
FY 2021	-	-	-	2,791,940	61,322	-	-	2,853,262
FY 2022	-	-	-	2,903,395	89,820	-	-	2,993,215
FY 2023	-	-	-	3,014,850	93,268	7,439	-	3,115,557
FY 2024	-	-	-	3,126,304	938,216	7,714	-	4,072,234
FY 2025	-	-	-	4,835,509	1,073,339	7,989	-	5,916,837
FY 2026	-	-	-	6,729,839	1,147,850	8,264	-	7,885,952
FY 2027	-	-	-	6,953,793	1,574,173	8,539	-	8,536,505
Total	-	-	-	36,849,973	5,147,266	39,944	-	42,037,183

Note: Personnel impacts associated with capital projects coming on-line during FY 2017 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 2017-2027 CIB/P Projects**



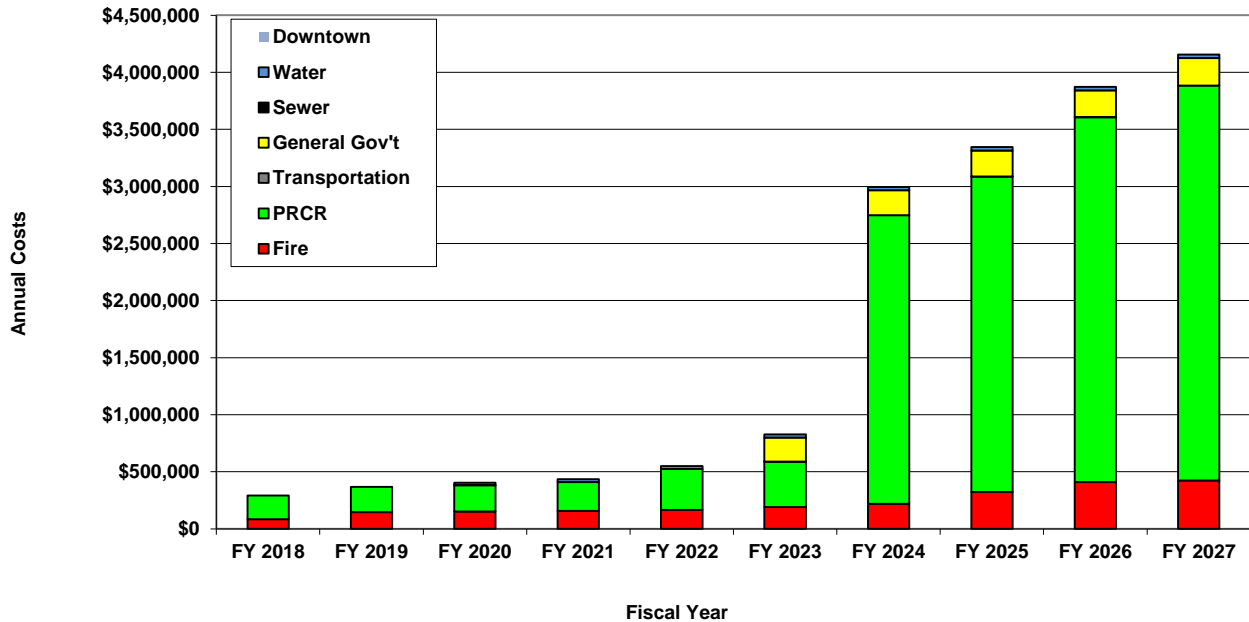
**CUMULATIVE IMPACTS OF FYS 2017- 2027
CAPITAL IMPROVEMENTS BUDGET/PLAN PROJECTS
ON FUTURE OPERATING BUDGETS
(BY OPERATING EXPENDITURE CATEGORY)**

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

Fiscal Year of Impact	Water	Sewer	Transportation	Fire	PRCR	General Gov't	Downtown	Total
FY 2018	-	-	-	85,389	206,612	-	-	292,001
FY 2019	-	-	576	145,734	220,592	-	-	366,902
FY 2020	21,645	-	601	152,056	230,162	-	-	404,465
FY 2021	25,050	-	626	158,379	250,379	-	-	434,434
FY 2022	26,050	-	651	164,701	358,713	-	-	550,115
FY 2023	27,050	-	676	191,645	396,828	210,990	-	827,189
FY 2024	28,050	-	701	220,114	2,526,468	218,790	-	2,994,123
FY 2025	29,050	-	726	322,732	2,764,693	226,590	-	3,343,792
FY 2026	30,050	-	751	408,967	3,197,926	234,390	-	3,872,084
FY 2027	31,050	-	776	422,577	3,459,596	242,190	-	4,156,189
Total	217,995	-	6,086	2,272,293	13,611,969	1,132,950	-	17,241,293

Note: Operating impacts associated with capital projects coming on-line during FY 2017 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 2017-2027 CIB/P Projects**



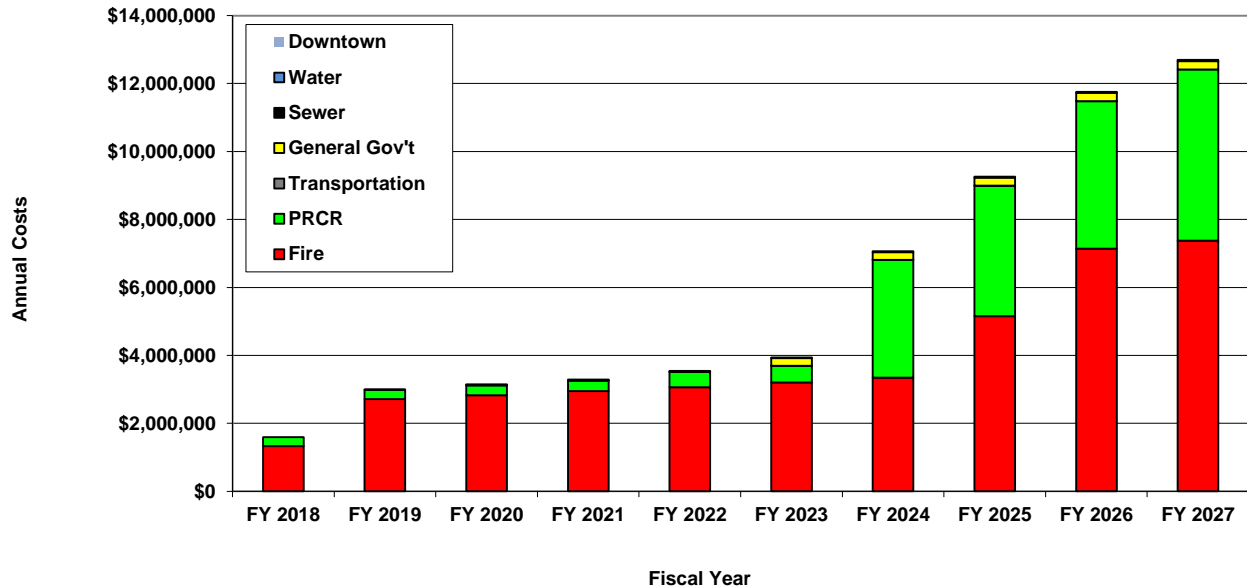
CUMULATIVE IMPACTS OF FYS 2017- 2027 CAPITAL IMPROVEMENTS BUDGET/PLAN PROJECTS ON FUTURE OPERATING BUDGETS (BY OPERATING EXPENDITURE CATEGORY)

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 2018	-	-	-	1,330,215	260,590	-	-	1,590,805
FY 2019	-	-	576	2,714,764	277,018	-	-	2,992,359
FY 2020	21,645	-	601	2,832,542	289,037	-	-	3,143,824
FY 2021	25,050	-	626	2,950,319	311,701	-	-	3,287,696
FY 2022	26,050	-	651	3,068,096	448,533	-	-	3,543,330
FY 2023	27,050	-	676	3,206,495	490,096	218,429	-	3,942,746
FY 2024	28,050	-	701	3,346,418	3,464,684	226,504	-	7,066,357
FY 2025	29,050	-	726	5,158,241	3,838,032	234,579	-	9,260,629
FY 2026	30,050	-	751	7,138,806	4,345,775	242,654	-	11,758,036
FY 2027	31,050	-	776	7,376,370	5,033,769	250,729	-	12,692,694
Total	217,995	-	6,086	39,122,266	18,759,235	1,172,894	-	59,278,476

Note: Impacts associated with capital projects coming on-line during FY 2017 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 Cumulative Personnel and O&M Costs Associated With
FYs 2016-2026 CIB/P Projects**



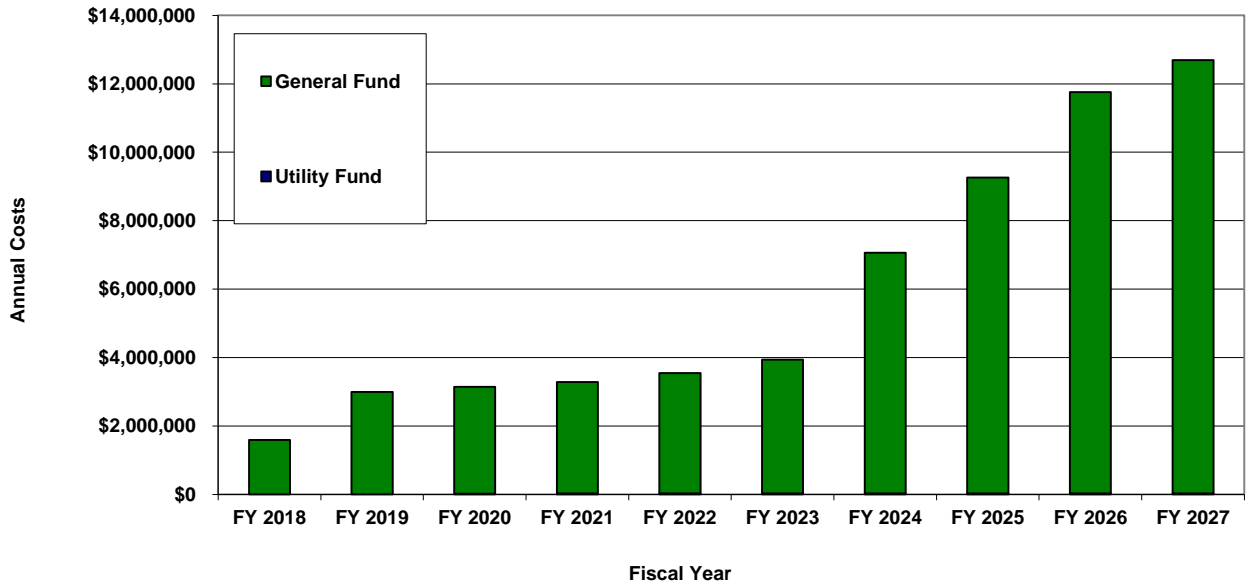
CUMULATIVE IMPACTS OF FYS 2017- 2027 CAPITAL IMPROVEMENTS BUDGET/PLAN PROJECTS ON FUTURE OPERATING BUDGETS

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

Fiscal Year of Impact	Utility Fund	General Fund	Total
FY 2018	-	1,590,805	1,590,805
FY 2019	-	2,992,359	2,992,359
FY 2020	21,645	3,122,179	3,143,824
FY 2021	25,050	3,262,646	3,287,696
FY 2022	26,050	3,517,280	3,543,330
FY 2023	27,050	3,915,696	3,942,746
FY 2024	28,050	7,038,307	7,066,357
FY 2025	29,050	9,231,579	9,260,629
FY 2026	30,050	11,727,986	11,758,036
FY 2027	31,050	12,661,644	12,692,694
Total	217,995	59,060,481	59,278,476

Note: Impacts associated with capital projects coming on-line during FY 2017 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 2017 - 2027 CIB/P - by Operating Fund**





**CAPITAL PROJECT SPENDING STATUS
ACTIVE PROJECTS AS OF JUNE 30, 2016**

Project Category	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
Water	203,954,474	126,438,717	77,515,757	62%
Sewer	381,994,244	296,394,943	85,599,301	78%
Total Utility Capital Projects	585,948,718	422,833,661	163,115,057	72%
Transportation	152,969,190	79,764,296	73,204,894	52%
Fire	12,721,000	7,681,326	5,039,674	60%
Parks, Recreation and Cultural Resources	73,998,366	51,503,738	21,017,628	70%
General Government	39,875,493	27,922,375	11,953,118	70%
Downtown	11,549,903	723,891	10,826,012	6%
Total General Capital Projects	291,113,952	167,595,625	122,041,326	58%
GRAND TOTAL	877,062,670	590,429,286	285,156,384	67%

*Projects noting 100% spending remain open until any warranty period is complete and encumbrances are liquidated or closed.

WATER PROJECTS

Project Number	Project Name	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
WT1054	Holly Springs Rd Water Line	1,750,000	1,740,330	9,670	99%
WT1070	Water Resource Planning and Management	851,860	555,178	296,682	65%
WT1097	NC55 Water Line Extension - Phase II	2,337,000	9,562	2,327,438	0.4%
WT1116	MM - Utility Merger Study	1,225,140	1,188,673	36,467	97%
WT1123	Aquastar	17,835,310	17,802,018	33,292	100%
WT1128	Green Level Church Road Water Line - Phase I	1,051,000	1,050,073	927	100%
WT1129	Green Level West Road Water Line - Phase I	3,571,000	2,794,639	776,361	78%
WT1135	MM - Upgrade Water Lines - FY 2007	1,031,720	399,083	632,637	39%
WT1138	Water Line Upgrades - FY 2007	396,000	396,000	-	100%
WT1142	Wimberly Road Water Line	4,306,000	269,400	4,036,600	6%
WT1148	CAWTF - Phase III Expansion and Improvements - 56 MGD	77,500,000	73,814,014	3,685,986	95%
WT1156	Water System Monitoring Protection	608,000	1,000	607,000	0.2%
WT1157	TCAP - Streetscape Water Upgrades	1,313,000	800,314	512,686	61%
WT1161	Cary Parkway SW Water Line Reinforcement	8,650,000	834,174	7,815,826	10%
WT1163	CAWTF - Lake Aeration Mixing System	3,726,000	724,577	3,001,424	19%
WT1166	Holt Road to Davis Drive Waterline Connection	1,920,000	39,725	1,880,275	2%
WT1167	Large Valve Repair/Replacement - FY 2009	200,000	138,515	61,485	69%
WT1171	CAWTF - NC540 Water Conflicts	4,606,460	4,139,085	467,375	90%
WT1172	Old Apex Rd Waterline Reinforcement	1,694,000	6,978	1,687,022	0.4%
WT1177	Jordan Lake Partnership	327,500	214,516	112,984	66%
WT1178	Jenks Carpenter Rd - Holt Rd Waterline Reinforcement	3,053,000	21,150	3,031,850	1%
WT1182	MM - Upgrade Water Lines - FY 2011	436,000	-	436,000	-
WT1189	Western Cary Water Storage Tank	9,310,000	2,163,686	7,146,314	23%
WT1191	Water Main Condition Assessment Program	275,000	126,160	148,840	46%
WT1193	Long Range Water Resources Plan	1,111,210	1,002,419	108,791	90%
WT1194	CAWTF - Raw Water Pipeline	22,250,000	1,840,780	20,409,220	8%
WT1195	Cary/Raleigh Water System Interconnection	1,313,000	921,923	391,077	70%
WT1198	Old Apex Tank Flow Meter and Control Valve and Vault	125,000	104,875	20,125	84%
WT1199	Old Apex Tank Study and Improvements	630,000	373,880	256,120	59%
WT1200	Pressure Zone Separation Control Valve	25,000	3,437	21,563	14%
WT1205	Water System Pressure Monitoring	100,000	-	100,000	-
WT1206	CAWTF - Air Release Valve Upgrades for 42" Waterline	1,075,000	92,260	982,740	9%
WT1207	Cary Parkway and NC 54 Water Line Connection	200,000	5,986	194,015	3%
WT1209	CAWTF - Raw Water Line Cleaning	200,000	104,388	95,612	52%
WT1212	Green Level West Water Line - Phase III	2,400,000	-	2,400,000	-
WT1213	Harrison Elevated Water Tank Renovation	800,000	655,856	144,144	82%
WT1214	Kilmayne Water Storage Tank	7,000,000	1,999,676	5,000,324	29%
WT1216	Plumtree Tank Modifications	2,050,000	1,406,522	643,478	69%
WT1217	Water Line Upgrades - FY 2013	831,600	831,599	1	100%
WT1219	Water System Water Quality Enhancements	150,000	-	150,000	-
WT1220	Water Line Relocations NCDOT U4716	258,961	258,961	-	100%
WT1221	CAWTF - Residual Transfer Pump Replacements	250,000	-	250,000	-
WT1222	Water Main Extension - FY 2014	250,000	250,000	-	100%
WT1223	Kit Creek Road Water Line Connection	725,000	48,747	676,253	7%
WT1225	Water Line Upgrades - FY 2014	1,000,000	999,999	1	100%
WT1227	Morrisville Parkway Utility Agreement NCDOT	238,504	238,504	-	100%
WT1228	Aquastar - Additional Infrastructure	75,000	-	75,000	-
WT1230	CAWTF - Improvements - FY2015	105,000	48,515	56,485	46%
WT1231	CAWTF - Clearwell Repainting	100,000	4,200	95,800	4%
WT1232	CAWTF - Ozone Generator Reconditioning	200,000	191,209	8,791	96%
WT1233	Remote Water System Programmable Logic Controller Replacements and SCADA Upgrades	50,000	4,906	45,094	10%
WT1234	Water Line Upgrades - FY 2015	600,000	530,709	69,291	88%
WT1236	CAWTF - Equipment Storage Building	50,000	-	50,000	-
WT1237	CAWTF - Gas Spectrometer	175,000	171,274	3,726	98%
WT1238	CAWTF - Improvements - FY 2016	30,000	-	30,000	-
WT1239	CAWTF - Jordan Lake Capacity Allocation	655,743	-	655,743	-
WT1240	CAWTF - New Clearwell	650,000	-	650,000	-
WT1241	CAWTF - Process Basin Rehabilitation	500,000	-	500,000	-
WT1242	Crossroads Storage Tank and Pump Station	600,000	-	600,000	-
WT1243	Water Main Extension - FY 2016	302,777	18,930	283,847	6%
WT1244	Holly Brook Water Line	2,112,439	202,220	1,910,219	10%

WATER PROJECTS - CONTINUED

Project Number	Project Name	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
WT1245	Kildaire Farm Water Line Reinforcement Central	600,000	5,950	594,050	1%
WT1246	Throttling Valve at Surles Court Pump Station	100,000	-	100,000	-
WT1247	Water Line Upgrades - FY 2016	5,000,000	4,312,408	687,592	86%
WT1248	Water Line Oversizings - FY 2016	145,000	-	145,000	-
WT1249	Water Resources Master Plan	100,000	-	100,000	-
WT1250	Water System - Water Line Locating and Testing	175,000	175,000	-	100%
WT1251	Water System Valve Replacements - FY 2016	125,000	-	125,000	-
WT5017	Annex - Franklin Heights Waterline	416,250	404,734	11,516	97%
WT5018	Annex - Pink Acres	130,000	-	130,000	-
TOTAL WATER PROJECTS		203,954,474	126,438,717	77,515,757	62%

SEWER PROJECTS

Project Number	Project Name	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
SW1091	Force Main Discharge Manhole Coverings	215,600	215,600	-	100%
SW1102	NCWRF - Odor Control	1,982,960	1,544,483	438,477	78%
SW1105	Western Cary Collection System Odor Control	930,000	929,999	1	100%
SW1115	Kit Creek Basin Sanitary Sewers	971,548	47,500	924,048	5%
SW1121	Wastewater SCADA	1,266,694	1,115,122	151,572	88%
SW1123	WWRWMF - New Water Reclamation Facility	136,678,379	135,686,849	991,530	99%
SW1124	WWRWMF - Effluent Pump Station	8,957,953	7,047,226	1,910,727	79%
SW1125	WWRWMF - Project Management	2,595,224	2,151,830	443,394	83%
SW1127	MM - Telemetry Upgrade - Morrisville Wastewater Pump Stations	160,000	160,000	-	100%
SW1130	Green Level Interceptor	7,510,969	7,226,893	284,076	96%
SW1132	MM - Kit Creek Basin Sanitary Sewers	5,471,452	3,004,444	2,467,008	55%
SW1134	MM - Replace/Rehabilitate Sewer Mains - FY 2007	1,161,300	1,161,300	-	100%
SW1138	NW Area/Jordan Lake Reclaimed Water - Phase II	7,457,176	5,048,954	2,408,222	68%
SW1143	WWRWMF - Western Cary Pump Station Upgrades	11,279,482	9,176,397	2,103,085	81%
SW1144	WWRWMF - Western Cary Force Main South	9,943,176	6,351,764	3,591,412	64%
SW1145	WWRWMF - Western Reedy Branch Gravity Sewer Interceptor	12,304,175	6,661,551	5,642,624	54%
SW1146	WWRWMF - Beaver Creek Pump Station	20,157,682	16,019,378	4,138,304	79%
SW1147	WWRWMF - Beaver Creek Force Main	27,492,027	17,145,781	10,346,246	62%
SW1148	WWRWMF - SCADA	3,570,954	3,526,550	44,404	99%
SW1154	Biosolid Aeration System Improvements	2,500,000	2,091,512	408,488	84%
SW1155	Crabtree/York Interceptor Improvements	475,000	263,317	211,683	55%
SW1156	Force Main Inspection and Rehabilitation - FY 2008	3,600,000	3,108,250	491,750	86%
SW1157	MM - NW Cary Wastewater Conveyance to WWRWMF	818,000	818,000	-	100%
SW1159	MM - Replace/Rehabilitate Sewer Mains - FY 2008	580,650	580,650	-	100%
SW1170	Swift Creek Pump Station Parallel Force Main	11,181,773	11,039,007	142,766	99%
SW1171	Swift Creek Regional Pump Station Improvements	1,590,000	1,092,343	497,657	69%
SW1172	Town Hall Drive Pump Station	215,000	215,000	-	100%
SW1174	Walnut Creek Pump Station Electrical Improvements	450,000	443,617	6,383	99%
SW1175	Wastewater Pump Station Improvements	2,398,227	1,260,763	1,137,464	53%
SW1176	Wastewater Pump Station Parallel Force Main	13,525,000	4,150,001	9,374,999	31%
SW1177	TCAP - Streetscape Sewer Upgrades	1,278,000	638,637	639,363	50%
SW1178	WWRWMF - Beaver Creek Gravity Sewer	2,065,000	1,375,753	689,247	67%
SW1179	WWRWMF - Beaver Creek Trunk Sewer	4,800,000	3,404,354	1,395,646	71%
SW1180	WWRWMF - Holly Spring Effluent Force Main	39,374	38,524	850	98%
SW1181	WWRWMF - Effluent Pipeline - Phase I	2,385,901	1,674,573	711,328	70%
SW1182	WWRWMF - Effluent Pipeline - Phase II	30,720,840	23,592,045	7,128,795	77%
SW1184	Carystone Pump Station Elimination	260,000	1,405	258,595	1%
SW1186	MacGregor Park Pump Station Elimination	210,000	4,240	205,760	2%
SW1191	Paramount Pump Station Elimination	2,010,000	29,268	1,980,732	1%
SW1200	WWRWMF - Water and Sewer Policy Implementation	2,358,645	2,348,676	9,969	100%
SW1202	Force Main Inspection and Rehabilitation - FY 2010	2,500,000	-	2,500,000	0%
SW1203	Cleaning and Video Surveying of Sewer Interceptors	2,009,500	1,140,810	868,690	57%
SW1211	Updated Reclaimed Water System Master Plan	350,000	270,600	79,400	77%
SW1212	Repair/Rehabilitate Sewer System - FY 2011	1,233,540	1,233,540	-	100%
SW1217	SCWRF - Headworks Upgrades	525,000	450,143	74,857	86%
SW1223	Reclaimed Water Main Extensions - FY 2012	105,000	-	105,000	-
SW1224	Glenridge Pump Station Improvements	175,000	72,361	102,639	41%
SW1226	Kensington Pump Station to Gravity Sewer	65,000	49,960	15,040	77%
SW1229	NCWRF - Contingency Upgrades	355,000	348,376	6,624	98%
SW1232	Sewer System Repair/Rehabilitation - FY 2012	1,294,052	1,293,991	61	100%
SW1234	Wastewater Collection System Odor Control	175,000	175,000	-	100%
SW1235	Kit Creek Pump Station Improvements	1,300,000	1,300,000	-	100%
SW1237	Miscellaneous Pump Station Grinder Exchange/Rebuild	240,000	236,501	3,499	99%
SW1238	Morris Branch Pump Station Improvements	800,000	800,000	-	100%
SW1239	Upper Crabtree Creek Pump Station and Force Main	680,000	254,400	425,600	37%
SW1240	Walnut Creek Pump Station Check Valve	265,000	123,121	141,879	46%
SW1241	Extend Reclaimed Water Mains - FY 2013	110,250	-	110,250	-
SW1245	Sewer System Repair/Rehabilitation - FY 2013	500,000	500,000	-	100%
SW1247	Lower Swift Creek Parallel Interceptor	1,150,000	81,695	1,068,305	7%
SW1249	Nancy Branch Interceptor Capacity	1,400,000	-	1,400,000	-
SW1251	SCWRF - Demolition of Lagoons	200,000	52,500	147,500	26%
SW1252	Force Main Easement Clearing	200,000	83,548	116,452	42%
SW1254	NCWRF - Mixer Replacement	300,000	289,831	10,169	97%
SW1256	Copperleaf Reserve Easement Acquisition	205,000	113,178	91,822	55%
SW1257	Blanche Dr Sewer Improvements	175,000	-	175,000	-

SEWER PROJECTS - CONTINUED

Project Number	Project Name	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
SW1258	Blanche Dr Pump Station Expansion - Inflow/Infiltration Reduction	1,200,000	-	1,200,000	-
SW1259	Holly Springs Rd Sewer Rehabilitation	365,000	300,795	64,205	82%
SW1260	MM - Aviation Pump Station Upgrade and York Interceptor Basin Study	1,650,000	262,300	1,387,700	16%
SW1263	NCWRF - SCADA Conversion	1,250,000	4,860	1,245,140	0.4%
SW1264	Sewer Flow Management Modeling	300,000	30,000	270,000	10%
SW1265	SCWRF - High Efficiency Turbo Blower Replacement - FY 2014	250,000	237,040	12,960	95%
SW1266	SCWRF - Facility Improvements	435,000	256,020	178,980	59%
SW1268	Wastewater System Flow Study	175,000	175,000	-	100%
SW1269	Jack Branch Interceptor	1,150,000	6,940	1,143,060	1%
SW1270	Lynn's Branch Parallel Interceptor	250,000	-	250,000	-
SW1272	NCWRF - Pavement Repairs	50,000	10,712	39,288	21%
SW1274	NCWRF - Variable Frequency Drive Replacement	200,000	157,531	42,469	79%
SW1275	Reclaimed Water Line Oversizings - FY 2015	144,700	24,726	119,974	17%
SW1276	Reclaimed Water Blowoff Metering	210,000	9,165	200,835	4%
SW1279	Sewer System Repair/Rehabilitation - FY 2015	1,600,000	1,231,122	368,878	77%
SW1280	SCWRF - Aeration Basin and Air Header Repairs	175,000	111,234	63,766	64%
SW1282	SCWRF - Ultra Violet System Restoration and Power Surge Suppression	200,000	170,121	29,879	85%
SW1284	Basin W12 Regional Pump Station, Gravity Sewer and Force Main	800,000	-	800,000	-
SW1285	Crane Truck 1.5 Ton	82,000	82,000	-	100%
SW1286	Reclaimed Water Main Extension - FY 2016	127,628	-	127,628	-
SW1287	Terrace II Pump Station Elimination	250,000	-	250,000	-
SW1288	Hollybrook - Phases I - III Sewer Extension	2,617,706	467,600	2,150,106	18%
SW1289	NCWRF - Administration Building Roof Replacement	240,000	237,940	2,060	99%
SW1290	NCWRF - Capacity Analysis and Re-Rating	2,500,000	30,000	2,470,000	1%
SW1291	NCWRF - Clarifier Equipment Repair and Replacement	150,000	-	150,000	-
SW1292	NCWRF - Diffuser and Air Replacement	500,000	34,536	465,464	7%
SW1294	NCWRF - Valve Replacements	225,000	109,056	115,944	48%
SW1295	NCWRF - Variable Frequency Drive Replacement	200,000	-	200,000	-
SW1296	Pump Station Variable Frequency Drive Replacement	125,000	-	125,000	-
SW1297	Reclaimed Water Line Oversizings - FY 2016	150,000	30,830	119,170	21%
SW1298	Sanitary Sewer Oversizings - FY 2016	185,000	-	185,000	-
SW1299	SCWRF - Roof Replacement	74,300	-	74,300	-
SW1300	SCWRF - Dryer - Centrifuge Rebuild	175,000	-	175,000	-
SW1301	SCWRF - Dryer - Dewatered Cake Pump	175,000	43,900	131,100	25%
SW1302	SCWRF - Dryer - Drum Replacement	200,000	-	200,000	-
SW1303	Sewer System Repair/Rehabilitation - FY 2016	2,730,407	387,324	2,343,083	14%
SW5017	Annex - Franklin Heights Sewer Line	787,000	718,121	68,879	91%
SW5018	Annex - Pink Acres	215,000	4,960	210,040	2%
TOTAL SEWER PROJECTS		381,994,244	296,394,943	85,599,301	78%

TRANSPORTATION PROJECTS

Project Number	Project Name	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
ST1073	Tryon Road and Piney Plains Road - Ph I	14,617,000	14,554,888	62,112	100%
ST1084	Kildaire Farm Road Widening	9,776,201	9,627,117	149,084	98%
ST1092	Tryon Road Widening - Phase II	9,309,573	9,199,622	109,951	99%
ST1107	Traffic Calming	927,808	526,606	401,202	57%
ST1116	Sidewalk Improvements - FY 2004	500,000	500,000	-	100%
ST1123	Morrisville Parkway Extension - Ph III	13,185,000	4,561,304	8,623,696	35%
ST1129	Traffic Signals - FY 2005	200,000	183,690	16,310	92%
ST1131	Thoroughfare Street Lighting	250,000	176,359	73,641	71%
ST1143	Traffic Signals - FY 2006	243,818	222,356	21,462	91%
ST1146	Annexation Areas - Street Repaving	400,000	387,938	12,062	97%
ST1147	Sidewalk Improvements - FY 2007	1,000,000	1,000,000	-	100%
ST1157	Traffic Signals - FY 2007	300,000	214,931	85,069	72%
ST1158	TCAP - Walker Street Extension	7,200,632	1,705,775	5,494,857	24%
ST1173	Traffic Signals - FY 2008	229,967	5,375	224,592	2%
ST1179	Sidewalk Improvements - FY 2009	1,000,000	1,000,000	-	100%
ST1187	Traffic Signals - FY 2009	300,000	266,582	33,418	89%
ST1196	Sidewalk Improvements - FY 2011	500,000	500,000	-	100%
ST1198	Traffic Signals - FY 2011	400,000	85,572	314,428	21%
ST1204	Carpenter Fire Station Road/CSX Rail Grade Separation	18,220,000	1,701,630	16,518,370	9%
ST1206	Green Level West Road Widening	14,000,000	1,756,463	12,243,537	13%
ST1207	Reedy Creek Road Improvements	600,000	582,467	17,533	97%
ST1208	Walnut Street Improvements	7,000,000	5,020,125	1,979,875	72%
ST1209	Green Level Church Road Improvement - Austin Pond Road to Green Hope School Road	679,842	660,249	19,593	97%
ST1210	Sidewalk Improvements - FY 2012	500,000	500,000	-	100%
ST1211	Bicycle Facility Implementation - FY 2012	20,000	8,867	11,133	44%
ST1214	Rail and Community Cohesion Impact Studies	665,000	376,843	288,157	57%
ST1217	Traffic Signals - FY 2012	200,000	38,146	161,854	19%
ST1220	Morrisville Parkway Interchange	3,125,000	1,252,434	1,872,566	40%
ST1222	Cary Transit - FY 2013	251,000	-	251,000	0%
ST1223	Sidewalk Improvements - FY 2013	500,000	117,040	382,960	23%
ST1224	Bicycle Facility Implementation - FY 2013	20,000	9,471	10,529	47%
ST1225	Cary Signal Software Upgrades	150,000	148,766	1,234	99%
ST1226	Traffic Signals - FY 2013	250,000	-	250,000	-
ST1227	Bridge/Culvert Repairs - FY 2013	56,309	-	56,309	-
ST1230	Cary Parkway - Evans Road to N Harrison Avenue	2,800,000	22,557	2,777,443	1%
ST1231	Cary Parkway and High House Road Intersection	3,920,000	381,331	3,538,669	10%
ST1232	Tryon/Regency Parkway Intersection	600,000	2,211	597,789	0.4%

TRANSPORTATION PROJECTS - CONTINUED

Project Number	Project Name	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
ST1234	Green Level West - Sidewalk	25,000	25,000	-	100%
ST1235	Traffic Signal - Cary Glen/Carpenter Fire Station Road	250,000	163,294	86,706	65%
ST1237	Intersection Improvements - Reduce Congestion	3,000,000	596,134	2,403,866	20%
ST1238	DT - Streetscape Improvements - Academy Street/Dry Avenue	8,000,000	7,219,364	780,636	90%
ST1239	Signal System - 2012 Bond	2,900,000	2,527,927	372,073	87%
ST1240	Sidewalks - 2012 Bond	804,300	159,797	644,503	20%
ST1241	Bicycle Facility Improvements - 2012 Bond	975,700	507,016	468,684	52%
ST1243	Street Improvements - FY 2015	5,000,000	4,999,999	1	100%
ST1244	Sidewalk Improvements - FY 2015	600,000	72	599,928	0.01%
ST1245	Lake Pine Widening and Sidewalk Improvements	133,000	133,000	-	100%
ST1246	Spot Improvements - Level of Service, Safety and Citizen Concerns - FY 2015	250,000	46,690	203,310	19%
ST1247	Traffic Signals FY2015	250,000	6	249,994	0.002%
ST1248	Morrisville Parkway Interchange - NCTA	5,100,000	-	5,100,000	-
ST1249	Yates Store Road Through Montvale	500,000	-	500,000	-
ST1251	Intersection Improvements - FY 2016	1,000,000	58,568	941,432	6%
ST1252	Morrisville Parkway - Carpenter Upchurch Road Intersection	1,200,000	52,020	1,147,980	4%
ST1253	Sidewalk and Pedestrian Improvements - FY 2016	780,000	-	780,000	-
ST1254	Traffic Signal System Camera Coverage Expansion	350,000	-	350,000	-
ST1255	Spot Improvements - FY 2016	200,000	-	200,000	-
ST1256	Street Improvements - FY 2016	6,000,000	5,557,569	442,431	93%
ST1257	Green Level Church Road at Horton Creek	300,000	250,000	50,000	83%
ST6000	STM - Storm Drainage - MAIN	970,040	-	970,040	-
ST6020	STM - 111 Prince William Ln	33,000	31,281	1,719	95%
ST6025	STM - Green Level Church Road	109,000	35,701	73,299	33%
ST6028	STM - Creighton Ct	54,000	20,014	33,986	37%
ST6029	STM - Greg Dr at Key West Mews	18,000	8,000	10,000	44%
ST6030	STM - Walnut St Near Warren Ave	95,000	3,685	91,315	4%
ST6032	STM - Stonewater Glen	125,000	40,207	84,793	32%
ST6033	STM - Queensferry Drainage	5,000	1,266	3,734	25%
ST6034	STM - Trailing Fig Culvert Repair	20,000	14,450	5,550	72%
ST6035	STM - Vinecrest Court	25,000	16,520	8,480	66%
TOTAL TRANSPORTATION PROJECTS		152,969,190	79,764,296	73,204,894	52%

FIRE PROJECTS

Project Number	Project Name	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
FR1027	Fire Station #2A - East Chatham Street	7,797,000	4,994,884	2,802,116	64%
FR1038	Traffic Signal Pre-emption - Phase II	221,000	102,906	118,094	47%
FR1043	Fire Pumper Replacement - #1706	678,000	608,028	69,972	90%
FR1044	Fire Station - Northwestern Cary	925,000	791,030	133,970	86%
FR1046	Fire Pumper Replacement - #1834	650,000	608,267	41,733	94%
FR1047	Fire Station - Southwestern Cary	800,000	-	800,000	-
FR1048	Fire Station #9 - Walnut Street Area	750,000	-	750,000	-
FR1049	Fire Pumper Replacement - #1957	650,000	555,711	94,289	85%
FR1050	Fire Station #2 Foundation Repairs	250,000	20,500	229,500	8%
TOTAL FIRE PROJECTS		12,721,000	7,681,326	5,039,674	60%

PARKS, RECREATION AND CULTURAL RESOURCES 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	1,258,468	221,832	85%
PR1057	White Oak Greenway - Phases III and IV	4,609,000	4,608,999	1	100%
PR1074	Jack Smith Park	4,540,345	4,196,673	343,672	92%
PR1095	New Hope Church Road Trailhead Park	2,075,431	1,970,176	105,255	95%
PR1109	TCAP - Cary Elementary Renovation Project	13,969,123	13,806,440	162,683	99%
PR1111	Mills Park	1,810,000	1,620,967	189,033	90%
PR1128	AM Howard Farm	150,000	87,289	62,711	58%
PR1129	Black Creek Greenway Renovation - Phases I and II	300,000	276,230	23,770	92%
PR1134	Hemlock Bluffs Renovation	247,000	228,749	18,251	93%
PR1140	Public Art - TCAP Walker Street	100,000	96,800	3,200	97%
PR1142	MacDonald Woods Renovation	410,000	402,848	7,152	98%
PR1143	Roberts Road Park	250,000	-	250,000	-
PR1144	Carpenter Neighborhood Park	2,983,000	2,910,909	72,091	98%
PR1146	Sertoma Amphitheatre and Restroom Renovation	200,000	-	200,000	-
PR1150	Annie Jones Greenway Renovation	531,751	524,486	7,265	99%
PR1151	Old Reedy Creek Road Trailhead and Park	1,105,000	747,384	357,616	68%
PR1155	Cary Tennis Park Court Renovations	100,000	100,000	-	100%
PR1156	Greenway Connection - Morrisville Trail	130,000	120,946	9,054	93%
PR1158	PRCR Venue Wayfinding Signage	243,000	153,379	89,621	63%
PR1159	Park Greenway and Facility Sign Plan	325,000	288,521	36,479	89%
PR1164	USAB Facility Improvements - Interlocal	1,530,000	28,000	1,502,000	2%
PR1166	Crabtree Creek Greenway	5,398,000	534,988	4,863,012	10%
PR1169	Weldon Ridge Greenway	175,000	153,375	21,625	88%
PR1172	Greenway Resurfacing - FY 2013	343,670	276,295	67,375	80%
PR1177	Community Garden	25,000	25,000	-	100%
PR1180	Park and Greenway Renovation - FY 2013	200,000	89,807	110,193	45%
PR1182	Cary Tennis Park Court Renovations	925,000	859,478	65,522	93%
PR1184	Mills Park - Phase II	1,070,000	148,060	921,940	14%
PR1185	DT - Downtown Park	5,639,000	5,241,347	397,653	93%

PARKS, RECREATION AND CULTURAL RESOURCES PROJECTS - CONTINUED

Project Number	Project Name	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
PR1186	White Oak Greenway - American Tobacco Trail Section	6,305,462	430,666	5,874,796	7%
PR1187	Panther Branch Greenway - Cameron Pond	2,405,840	120,508	2,285,332	5%
PR1188	Sports Turf Fields	2,601,355	2,293,471	307,884	88%
PR1189	Landscape Architect - BONDS	362,510	260,143	102,367	72%
PR1190	Artificial Turf Fields	1,918,450	1,677,861	240,589	87%
PR1193	Cary Tennis Park Expansion - Interlocal	5,021,629	4,403,492	618,137	88%
PR1195	Greenway Resurfacing - FY 2014	362,500	211,391	151,109	58%
PR1197	Park and Greenway Renovation - FY 2014	140,000	78,520	61,480	56%
PR1202	Soccer Park Improvements - Phase II - Interlocal	1,150,000	748,768	401,232	65%
PR1203	Carpenter Park Memorial	50,000	49,743	257	99%
PR1205	Annie Jones Greenway Stabilization	75,000	2,203	72,797	3%
PR1211	Park and Greenway Renovations - FY 2015	226,000	186,857	39,143	83%
PR1213	White Oak Creek Greenway Trailhead	185,000	-	185,000	-
PR1214	Public Art - DT - Downtown Park	161,000	147,500	13,500	92%
PR1215	Crescent Green Bridge Repair	142,000	137,000	5,000	96%
PR1218	Hinshaw Greenway Renovation	200,000	-	200,000	-
PR1220	Koka Booth Amphitheatre Improvements - FY 2016	350,000	-	350,000	-
PR1221	Meeting Place Pocket Park	75,000	-	75,000	-
PR1222	Park and Greenway Renovation - FY 2016	255,000	-	255,000	-
PR1223	Playground Surface Repairs - FY 2016	57,000	56,895	105	100%
PR1224	Sand Based Athletic Field Renovation - FY 2016	275,000	254,643	20,357	93%
PR1225	Restroom Replacement - FY 2016	135,000	132,676	2,324	98%
PR1226	Ritter Park Shade Structure	25,000	21,529	3,471	86%
PR1227	Sertoma Amphitheater Improvements	200,000	-	200,000	-
PR1230	WakeMed Soccer Park Improvements - FY 2016	220,000	35,010	184,990	16%
PR1231	Cary Tennis Park - Lighting and Scoreboard	55,000	51,762	3,238	94%
PR1232	DT - Public Art - Parking Deck	180,000	153,100	26,900	85%
TOTAL PARKS, RECREATION AND CULTURAL RESOURCES PROJECTS		73,998,366	51,503,738	21,017,628	70%

GENERAL GOVERNMENT PROJECTS

Project Number	Project Name	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
GG1066	Radio System Upgrade	9,746,448	8,550,071	1,196,377	88%
GG1075	Sanitation and Recycling Truck Replacement	14,445,965	10,102,962	4,343,003	70%
GG1078	Replacement of the Computer-Aided Dispatch (CAD) System	1,700,000	1,583,927	116,073	93%
GG1082	PAMDR - Unnamed Tributary Swift Creek - Phase II	1,438,882	1,438,882	-	100%
GG1106	Fiber Optics Cable Plan	100,000	61,236	38,764	61%
GG1109	Historic Preservation Implementation	25,000	13,614	11,386	54%
GG1111	Work Order Management/311	850,000	802,745	47,255	94%
GG1112	One Solution Software	1,467,000	668,910	798,090	46%
GG1113	Conference Room Technology Upgrades	188,100	53,790	134,310	29%
GG1114	Equipment Wash Station - WakeMed Soccer Park and USA Baseball Facility	260,000	248,982	11,018	96%
GG1116	Fiber Optics Extension to Western Cary	250,000	60,009	189,992	24%
GG1119	Public Works and Utilities Facility Improvements - Phase I - Dixon	750,000	123,420	626,580	16%
GG1121	Application Software Replacement - FY 2015 - Arc Info	80,000	77,323	2,677	97%
GG1126	Garmon Operations Center Improvements - Phase II	350,000	34,282	315,718	10%
GG1129	Parking Lot Resurfacing - FY 2015	169,650	140,207	29,443	83%
GG1130	Storm Water Condition Assessment - FY 2015	750,000	148,800	601,200	20%
GG1132	Town Website Overhaul	505,000	312,376	192,624	62%
GG1135	Pedestrian Crossing Upgrades	60,000	-	60,000	-
GG1136	Fire Station #4 - Roof Replacement	200,000	200,000	-	100%
GG1138	Facility Security	100,000	-	100,000	-
GG1139	Heavy Equipment Replacement	1,100,000	1,087,463	12,537	99%
GG1141	Parking Lot Resurfacing - FY 2016	124,650	57,960	66,690	46%
GG1142	Relamping Town Facilities	125,000	25,000	100,000	20%
GG1143	Cary Green Program - NRWF/Wells	54,078	10,083	43,995	19%
GG4000	AH - Affordable Housing - Main Project	88,063	-	88,063	-
GG4001	AH - Housing Rehabilitation	515,211	416,340	98,871	81%
GG4002	AH - Downtown Rehabilitation and Façade Improvements	215,441	190,272	25,169	88%
GG4004	AH - Affordable Housing Administration	49,145	49,145	-	100%
GG4005	AH - Minimum Housing Demolition	74,500	26,389	48,111	35%
GG5000	Land - Land Banking (Main)	725,704	-	725,704	-
GG5001	Land - Miscellaneous Unassigned Expenditures	138,980	138,980	-	100%
GG5018	Land - 7017 Carpenter Fire Station Road	5,000	900	4,100	18%
GG6000	STM - Town Property Storm Drainage Project - Main	728,860	-	728,860	-
GG6006	STM - 112 Summer Lakes Dr	479,595	105,459	374,136	22%
GG6007	STM - 322 Willow St	746,321	665,196	81,125	89%
GG6008	STM - 1516 Kilarney	282,000	65,457	216,543	23%
GG7000	STM - Storm Water - Private - MAIN	442,230	11,694	430,537	3%
GG7009	STM - 937 Ralph - Twiss/Clark	49,670	49,669	1	100%
GG7011	STM - King George Stream Restoration	40,000	-	40,000	-
GG7014	STM - Park James at Kirkfield	25,000	17,430	7,570	70%
GG7015	STM - Joel Ct at Bayoak Dr	25,000	18,010	6,990	72%
GG7016	STM - West High near Jodhpur	50,000	42,896	7,104	86%
GG7017	STM - Two Creeks Near Plaintree	25,000	16,530	8,470	66%
GG7018	STM - Trimble Ct	330,000	305,967	24,033	93%
TOTAL GENERAL GOVERNMENT PROJECTS		39,875,493	27,922,375	11,953,118	70%

DOWNTOWN PROJECTS

Project Number	Project Name	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
DT1000	DT - Downtown Available Funds	1,853,790	-	1,853,790	-
DT1108	DT - Business Improvement District Development Fees	700,399	188,326	512,073	27%
DT1117	DT - Mayton Inn Access Road	106,124	106,123	1	100%
DT1123	DT - Library Parking Facility	1,214,590	104,490	1,110,100	9%
DT1124	DT - 212 E Cedar Parking Lot	225,000	163,453	61,547	73%
DT1127	DT - Land - Downtown Park	5,000	1,299	3,701	26%
DT1128	DT - Midtown Square Sidewalk	250,000	-	250,000	-
DT1129	DT - Library Parking Structure	7,150,000	116,650	7,033,350	2%
DT1130	DT - 118, 120 & 124 Park Street Demolitions	45,000	43,550	1,450	97%
TOTAL DOWNTOWN PROJECTS		11,549,903	723,891	10,826,012	6%

PROJECTS CLOSED OR PENDING CLOSURE AS OF JUNE 30, 2016

PROJECT #	ESTIMATED FINAL PROJECT COST	PROJECT DESCRIPTION
WATER PROJECTS		
WT1094	8,160	Annexation Lines - Water
WT1149	163,111	Large Valve Repair/Replacement - FY 2008
WT1184	850,000	Penny Road and Birklands Drive Water Line Connector
WT1187	481,300	Water Line Upgrades - FY 2011
WT1201	792,000	Upgrade Water Lines - FY 2012
WT1203	253,126	Water Main Rehabilitation
	2,547,697	TOTAL CLOSED OR PENDING CLOSURE WATER PROJECTS
SEWER PROJECTS		
SW1053	1,408,914	Walnut Creek Flow Diversion
SW1087	9,007	Annexation Lines - Sewer
SW1103	1,612,483	Northwestern Area Reclaimed Water - Phase I
SW1112	3,031,991	South Cary Water Reclamation Facility - Odor Control
SW1163	2,704,546	Northwestern Cary Force Main Diversion
SW1206	49,000	Reedy Creek Regional Pump Station, Force Main, Interceptor and Pump Station Eliminations
SW1218	868,959	Storage Capacity for Reclaimed Water System - SCWRF
SW1222	422,145	Back-Up Generator Power - SCWRF Treatment Processes
SW1243	13,807	Reclaimed Water Chlorine Booster Study
SW1267	97,783	Valve Replacement and Water Line Extension - NCWRF
SW1271	137,795	NCWRF - Band Screen Repair and Replacement
SW1273	39,684	NCWRF - Storage Building
SW1281	64,238	SCWRF - Thermal Dyer Repair to Pellet Recycle System
SW1283	98,320	Wastewater System Flow Monitoring - Replace Flow Meters
SW1293	17,365	NCWRF - HVAC Replacement
	10,576,037	TOTAL CLOSED OR PENDING CLOSURE SEWER PROJECTS
TRANSPORTATION PROJECTS		
ST1082	11,180,788	Fiber Optic Traffic Signal System
ST1085	11,011,900	McCrimmon Parkway Road Improvements - Green Level
ST1184	120,000	Church Road Widening
ST1190	3	Railroad Grade Crossing Repairs - FY 2009
ST1193	60,855	US 1/64 Edinburgh Intersection Improvements
ST1199	9,000	Northwestern Cary Intersection Improvements
ST1200	120,000	Bridge/Culvert Repairs - FY 2011
ST1201	1,070,289	Railroad Grade Crossing Repairs - FY 2011
ST1205	1,693,232	Street Improvements - FY 2011
ST1213	-	Downtown Cary Roundabouts
ST1215	1,480,882	Connectivity Annual Project - FY 2012
		Street Improvement Project - FY 2012

PROJECTS CLOSED OR PENDING CLOSURE AS OF JUNE 30, 2016

PROJECT #	ESTIMATED FINAL PROJECT COST	PROJECT DESCRIPTION
TRANSPORTATION PROJECTS - CONTINUED		
ST1228	212,904	Railroad Crossing Repairs - FY 2013
ST1229	2,000,000	Street Improvement Project - FY 2013
ST1236	5,000,000	Street Improvements (Resurfacing) - Bond Funded
ST1242	3,870,880	Street Improvement Project - FY 2014
ST1250	-	Cary Transit (C-Tran) - FY 2016
ST6002	26,771	STM - Ralph Drive/Penny Lane
ST6007	10,247	STM - Fox View Place
ST6008	82,831	STM - Miramar Court at Marilyn
ST6011	439,235	STM - Roundtree Court
ST6012	107,905	STM - Abernathy Court at Kilarney
ST6026	47,596	STM - 1512 Fairbanks Culvert Replacement
ST6027	33,359	STM - Doylin Drive Drainage
ST6031	5,185	Reton Court Drainage Improvements
	38,583,862	TOTAL CLOSED OR PENDING CLOSURE TRANSPORTATION PROJECTS

FIRE

There are no Fire capital projects closing as of June 30, 2016

-	TOTAL CLOSED OR PENDING CLOSURE FIRE PROJECTS
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PARKS, RECREATION AND CULTURAL RESOURCES PROJECTS

PR1118	557,610	NC55 Trail Connection - Batchelor Tunnel
PR1122	246,330	Symphony Lake Greenway Bridge
PR1125	1,847,795	Pamlico Drive - Higgins Greenway Extension
PR1147	72,406	Sk8 Cary Improvements
PR1153	6,060,846	Soccer Park Facility Expansion
PR1167	27,731	Greenway Road Crossings and Connections - FY 2013
PR1179	35,000	Public Art - New Hope Church Road Trailhead Park
PR1194	236	Chapel Hill Road Pedestrian Improvements (U-5530 IA)
PR1208	36,102	Indoor Athletic Court Resurfacing - FY 2015
PR1216	80,777	Athletic Field Fencing Amenities Replacement - FY 2016
PR1217	70,826	Athletic Field Fencing Repair/Replacement - FY 2016
PR1219	-	Indoor Athletic Court Resurfacing - FY 2016
PR1228	36,332	Tennis Court Fencing Replacement - FY 2016
PR1229	152,820	Tennis Court Renovations - FY 2016
PR1233	30,000	USAB Safety Netting
	9,254,811	TOTAL CLOSED OR PENDING CLOSURE PRCR PROJECTS

PROJECTS CLOSED OR PENDING CLOSURE AS OF JUNE 30, 2016

PROJECT #	ESTIMATED FINAL PROJECT COST	PROJECT DESCRIPTION
GENERAL GOVERNMENT PROJECTS		
GG1061	441,870	Pamlico Drive - Nitrogen BMP System
GG1092	36,798	EECBG - Charging Stations
GG1102	338,909	EPA - Climate Showcase Community
GG1103	95,950	Environmental Monitoring Software
GG1120	150,715	Clean Fuel Advanced Technology
GG1127	180,247	HVAC Replacement and Maintenance - FY 2015
GG1128	48,710	Jordan Hall Building Repairs
GG1131	21,287	Town Facility Office Renovations
GG1133	130,000	Tractor Trailer - 15 Ton
GG1134	85,904	Tractor with Attachments
GG1137	63,763	Facility Interior and Exterior Painting - FY 2016
GG1140	121,226	HVAC Replacement and Maintenance - FY 2016
GG4003	255,000	Affordable Housing - Jones House Rehabilitation
GG5003	7,469,797	TCAP Land - Town Center Park
GG5010	695,015	Land - Western Cary Stream Restoration
GG6002	78,089	STM - 317 Holloway Street
GG6003	389,766	STM - 417 S West Street
GG6004	168,154	STM - 114 Woodlands Drive
GG6009	852,410	STM - Waldo Street
	11,623,610	TOTAL CLOSED OR PENDING CLOSURE GENERAL GOVERNMENT PROJECTS
DOWNTOWN		
DT1101	5,887,717	DT - Chatham Theater
DT1103	483,818	DT - Chatham Street Improvement
DT1112	50,000	DT - Relocation Mayton and Waldo Rood Houses
DT1113	150,000	DT - Mayton Inn Predevelopment Streetscape
DT1118	257,309	DT - Mitchell Pharmacy Upfits
DT1119	330,263	DT - 122 E Chatham Upfits
DT1125	332,208	DT - 307 S. Harrison Avenue
DT1126	5,172	DT - Walker Townes Closing
DT1200	303,065	DT - Downtown Signage
	7,799,552	TOTAL CLOSED OR PENDING CLOSURE DOWNTOWN PROJECTS
	80,385,569	GRAND TOTAL - CLOSED OR PENDING CLOSURE PROJECTS



FISCAL YEAR 2017 UTILITY CAPITAL IMPROVEMENTS

WATER CAPITAL IMPROVEMENTS FUND

A.	500,000	Arthur Pierce Road Water Line Connector
B.	44,177	Bobcat - Water
C.	50,000	Cary-Apex-Chatham Interconnection
D.	100,000	Cary-Apex-Holly Springs Interconnection
E.	75,000	CAWTF - Clearwell Repainting
F.	200,000	CAWTF - Lake Aeration Mixing
G.	4,750,000	CAWTF - New Clearwell
H.	3,500,000	CAWTF - Process Basin Rehabilitation/Restoration
I.	5,000,000	Crossroads Ground Storage Tank and Booster Pump Station
J.	125,000	Davis Drive Booster Pump Station Modifications
K.	150,000	Elevated Water Storage Tank Repainting - Carpenter Tank
L.	306,216	Extend Water Mains
M.	664,000	Holly Brook Subdivision Water Lines
N.	40,000	Jordan Lake Partnership
O.	2,500,000	Kildaire Farm Road Water Line Reinforcement - Central
P.	1,000,000	New Water Storage Tank Sites
Q.	100,000	Remote Water System Programmable Logic Controller Replacements and SCADA Upgrades
R.	75,000	Towerview Court Water Line Interconnection
S.	127,110	Truck, Dump, 10-11 Cubic Yard - Water

FISCAL YEAR 2017 UTILITY CAPITAL IMPROVEMENTS

WATER CAPITAL IMPROVEMENTS FUND - Continued

T.	167,181	Truck, Dump, 12 - 14 Cubic Yard - Water
U.	123,279	Truck, with Crane, 0-25 Feet - Water
V.	5,000,000	Upgrade Water Lines
W.	100,000	Valve Operating and Exercising Machine
X.	152,000	Water Line Oversizings
Y.	50,000	Water Main Condition Assessment
Z.	196,715	Water Resource Planning and Management
AA.	400,000	Water Resources Master Plan
AB.	150,000	Water System - Air Release Valve Replacements
AC.	175,000	Water System - Critical Water Line Locating and Testing
AD.	125,000	Water System - Valve Replacements
	25,945,678	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 2017 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: Arthur Pierce Road Water Line Connector

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$500,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

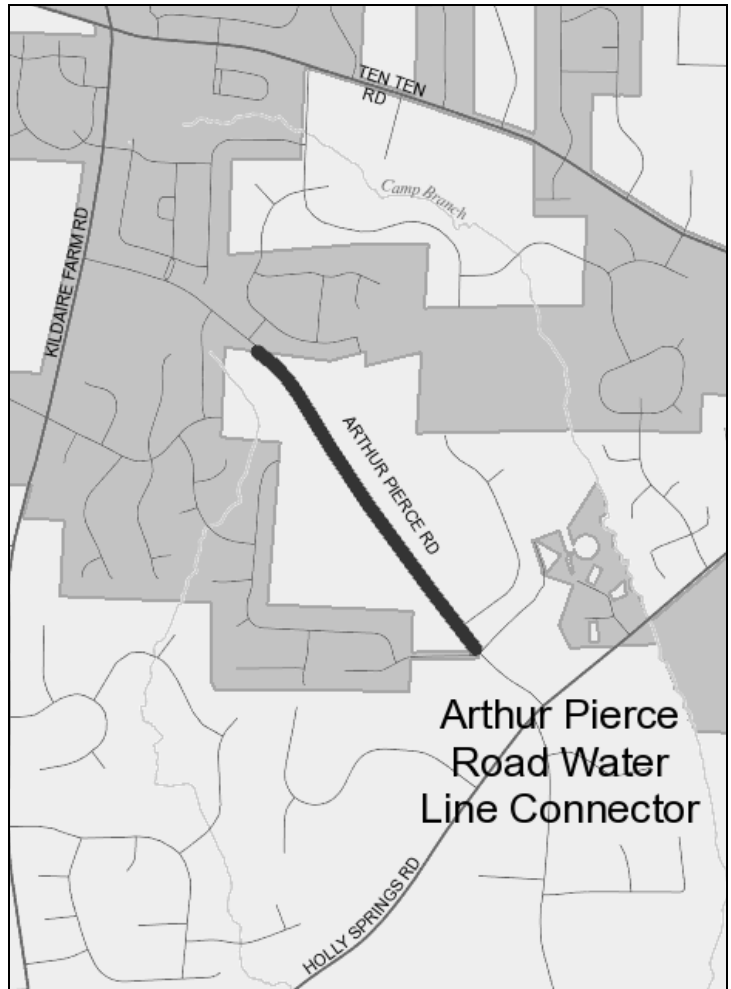
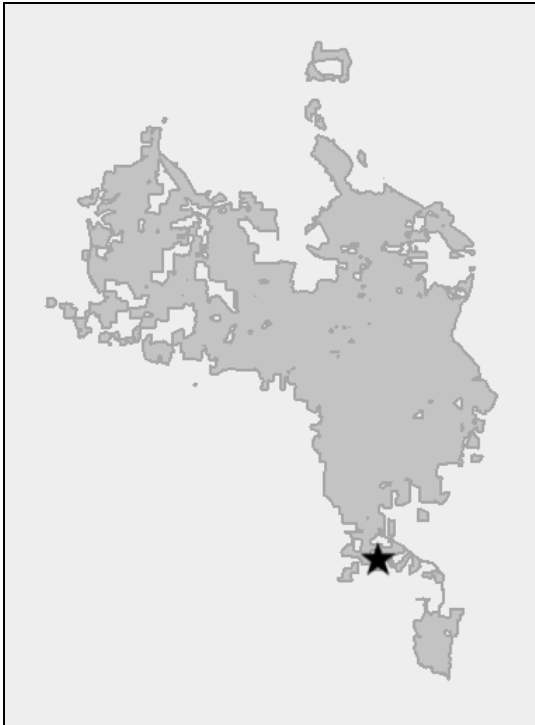
PROJECT DESCRIPTION:

This project provides for easement acquisition, design and construction of 3,500 linear feet of 12-inch water main running along Arthur Pierce Road from Ritter Lane to Mittglen Lane to connect existing lines. The \$500,000 FY 2017 appropriation fully funds easement acquisition, design and construction.

PROJECT JUSTIFICATION:

This project will provide service redundancy in the event of water line breaks or high firefighting water demand.

PROJECT LOCATION:



B. WATER

PROJECT TITLE: Bobcat - Water

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$44,177

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the replacement of one bobcat (equipment #1447) to be used by the Town's Utilities department.

PROJECT JUSTIFICATION:

The Town's Fleet Management staff has reviewed the existing bobcat and determined that this piece of equipment has met its life expectancy based on years, hours, maintenance and repair.

PROJECT LOCATION:

This equipment will be utilized throughout the Town as the need arises.

C. WATER

PROJECT TITLE: Cary-Apex-Chatham Interconnection

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$50,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for design and construction of water line interconnections between the Town of Cary's water system and Chatham County's system. The Town of Cary is currently participating in the Phase Two Interconnection Study with the Jordan Lake Partnership and anticipates that Cary will construct some or all of the interconnections recommended by this study. Total project cost for Cary is estimated to be \$150,000 with the \$50,000 FY 2017 appropriation supporting easement acquisition and design. A \$100,000 funding need noted in FY 2018 would support construction.

PROJECT JUSTIFICATION:

Interconnections between the Town of Cary's water system and Chatham County would improve reliability and emergency preparedness in the event that the Town's water system was reduced or unavailable.

PROJECT LOCATION:

These interconnections will be located at various locations based upon recommendations presented in the final study.

D. WATER

PROJECT TITLE: Cary-Apex-Holly Springs Interconnection

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$100,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for design and construction of water line interconnections between the Town of Cary's water system and the Town of Holly Springs' system. The Town of Cary is currently participating in the Phase Two Interconnection Study with the Jordan Lake Partnership and anticipates that Cary will construct some or all of the interconnections recommended by this study. Total project cost for Cary is estimated to be \$400,000 with the \$100,000 FY 2017 appropriation supporting easement acquisition and design. A \$300,000 funding need noted in FY 2018 would support construction.

PROJECT JUSTIFICATION:

Interconnections between the Town of Cary's water system and the Town of Holly Springs would improve reliability and emergency preparedness in the event that the Town's water system was reduced or unavailable.

PROJECT LOCATION:

These interconnections will be located at various locations based upon recommendations presented in the final study.

E. WATER

PROJECT TITLE: Cary/Apex Water Treatment Facility – Clearwell Repainting

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$75,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides funding to paint both of the three million gallon dome-shaped, circular clearwell water storage tanks at the Cary/Apex Water Treatment Facility. Total project cost is estimated to be \$175,000. A total of \$100,000 has been appropriated to this project to date. The \$75,000 FY 2017 appropriation provides remaining funding needed 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:

These tanks were constructed in 2000 – 2001, and the original coating system applied to the tanks during construction is showing signs of failure.

PROJECT LOCATION:



F. WATER

PROJECT TITLE: Cary/Apex Water Treatment Facility –
Lake Aeration Mixing

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$200,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for aeration improvements to enhance the existing raw water supply at Jordan Lake. Total project cost is estimated at \$3,926,000. \$3,726,000 has been appropriated through FY 2016 for design and implementation of the system. The \$200,000 FY 2017 appropriation provides remaining funding needed for installation and implementation.

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 effectiveness of the Jordan Lake aeration/mixing system will be evaluated by monitoring Jordan Lake water quality before, during and after installation of the system. Water quality monitoring will be conducted at a spatial and temporal frequency sufficient to develop contour maps based on water quality profile data. Water quality sampling, analysis and reporting will be conducted by an objective, third party to provide an unbiased evaluation of the water quality benefits of the Jordan Lake aeration/mixing system.

PROJECT LOCATION:



G. WATER

PROJECT TITLE: Cary/Apex Water Treatment Facility – New Clearwell

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$4,750,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

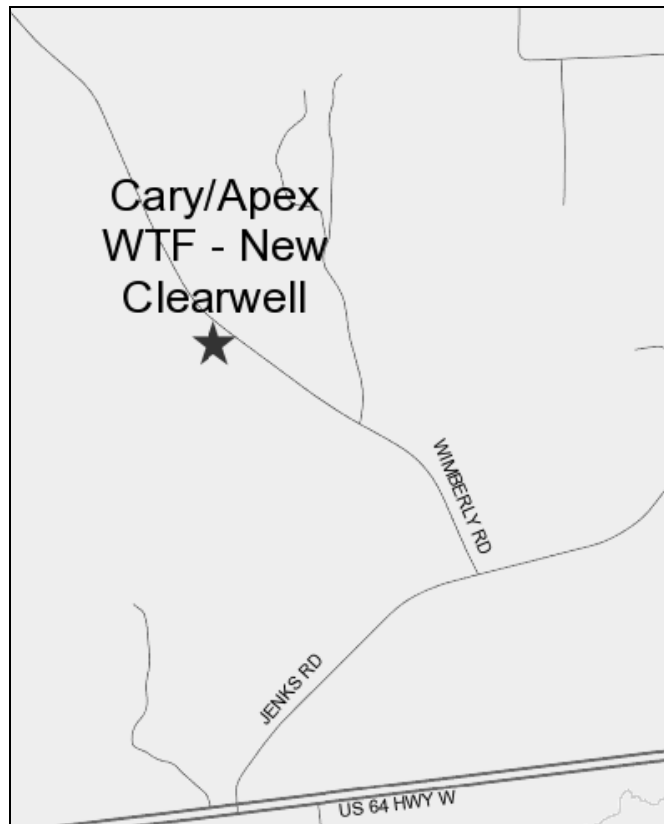
This project provides site acquisition, design and construction funding for the addition of a third clearwell at the Cary/Apex Water Treatment Facility. Total project cost is estimated to be \$5,400,000. Project appropriations to date of \$650,000 fund site acquisition. The \$4,750,000 appropriated in FY 2017 provides for design and construction of the new clearwell.

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:

Staff's preference is to locate the third clearwell in close proximity to the two existing clearwells. Although this placement requires the purchase of additional land, it eliminates the need for significant amounts of piping and disruption to future expansion plans that would occur if the clearwell were located within existing facility property.

PROJECT LOCATION:



H. WATER

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

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$3,500,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

The Cary/Apex Water Treatment Facility utilizes concrete process basins with electrical and mechanical ancillary equipment for core treatment sedimentation and filtration processes. 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.

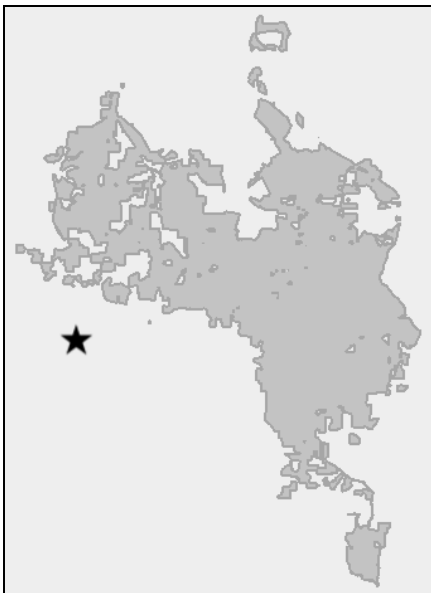
Total project cost is estimated at \$5,000,000. Appropriations to date of \$500,000 support design work associated with the process basin rehabilitation/restorations. The \$3,500,000 FY 2017 appropriation provides initial construction funding, while an additional \$1,000,000 identified in FY 2019 would address remaining construction needs.

As with all Cary/Apex Water Treatment Plant projects, the Town of Apex is responsible for 23% of the project cost while the Town of Cary addresses the remaining 77%.

PROJECT JUSTIFICATION:

Routine wear and tear on the process basin infrastructure results in the need for periodic restoration and rehabilitation.

PROJECT LOCATION:



I. WATER

PROJECT TITLE: Crossroads Ground Storage Tank and Booster Pump Station

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$5,000,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

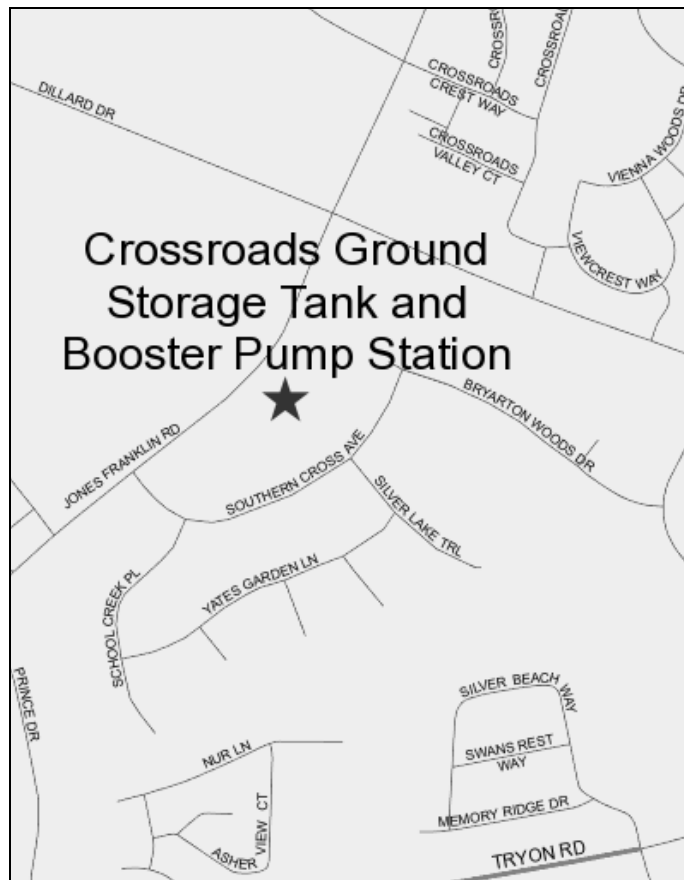
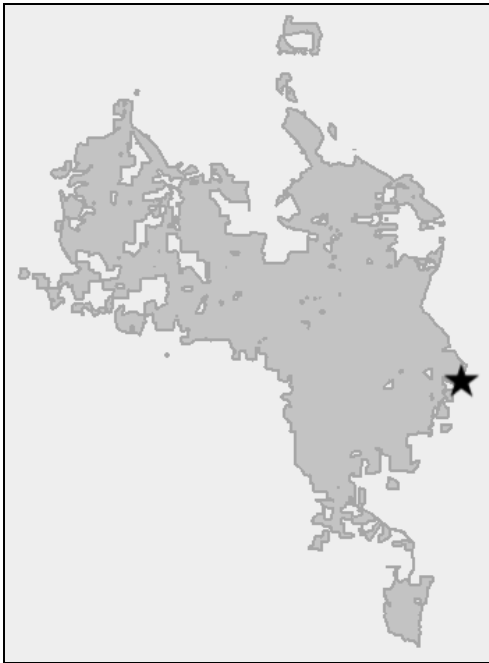
PROJECT DESCRIPTION:

This project provides for the design and construction of a 3.1 million gallon water storage tank and related booster pump station to be located in the vicinity of the Cary Crossroads shopping center. Total project cost is estimated at \$5,600,000. Appropriations to date total \$600,000 and address design and permitting needs, while the \$5,000,000 FY 2017 appropriation supports construction.

PROJECT JUSTIFICATION:

This infrastructure will add needed central pressure zone (CPZ) water storage and facilitate the transfer of water between the City of Raleigh's 595 zone and the Town of Cary's central and southern pressure zones. Providing a transfer location with the City of Raleigh will allow for an emergency water supply to be provided to Cary's southern pressure zone and parts of its central zone if needed. Increased water pressure produced by the water storage tank and the potential for emergency water supply from Raleigh are important during peak flow conditions and fire protection instances.

PROJECT LOCATION:



J. WATER

PROJECT TITLE: Davis Drive Booster Pump Station Modifications

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$125,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

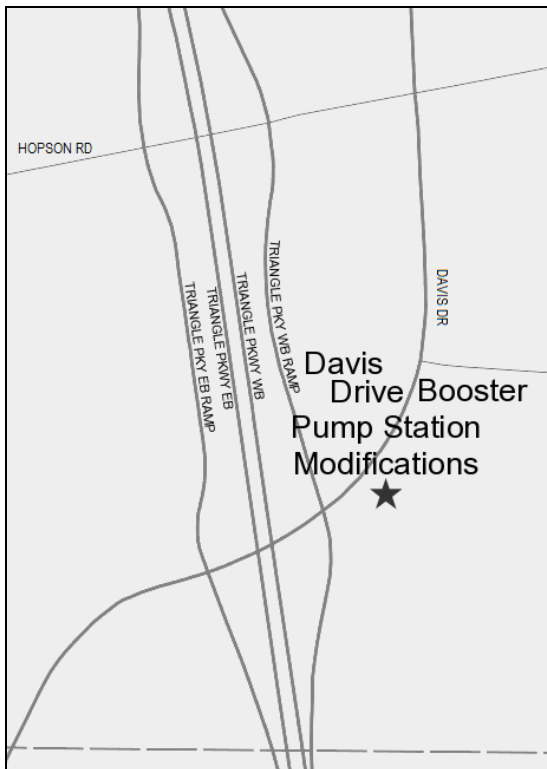
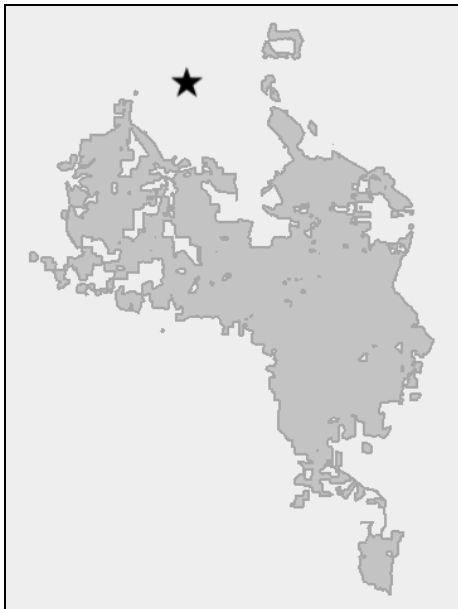
PROJECT DESCRIPTION:

This project supports an interconnection between the Town of Cary and the City of Durham's water system by allowing water to be pumped from the City of Durham's system to the Town of Cary's central pressure zone. Pump modifications, and potentially even replacement, are needed to allow the Davis Drive booster pump station to meet the demands of the higher water pressure that exists in the central pressure zone. The \$125,000 FY 2017 appropriation fully funds this project.

PROJECT JUSTIFICATION:

The 2007 drought and its impact on local water supply reservoirs initiated a strong interest in regional interconnection studies and planning to better insulate individual water providers from failing water supply reservoirs. The benefits of regional interconnections include improved contingency planning, not only for drought preparedness, but also for any number of possibilities that may impact a water plant, water transmission line or any other single point vulnerability in the water system. This project maintains a major existing interconnection with the City of Durham.

PROJECT LOCATION:



K. WATER

PROJECT TITLE: Elevated Water Storage Tank Repainting – Carpenter Tank

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$150,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

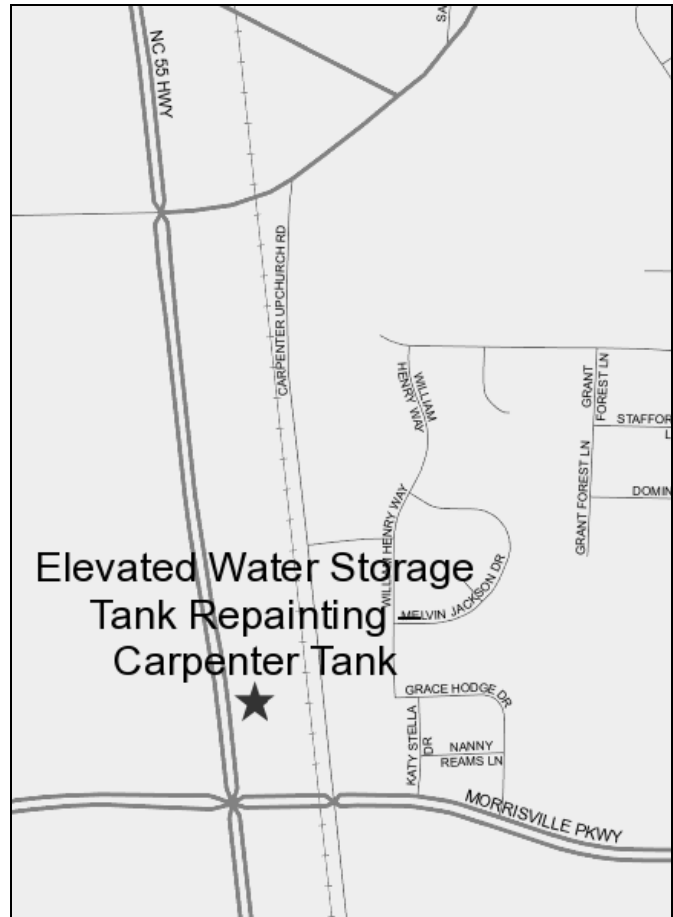
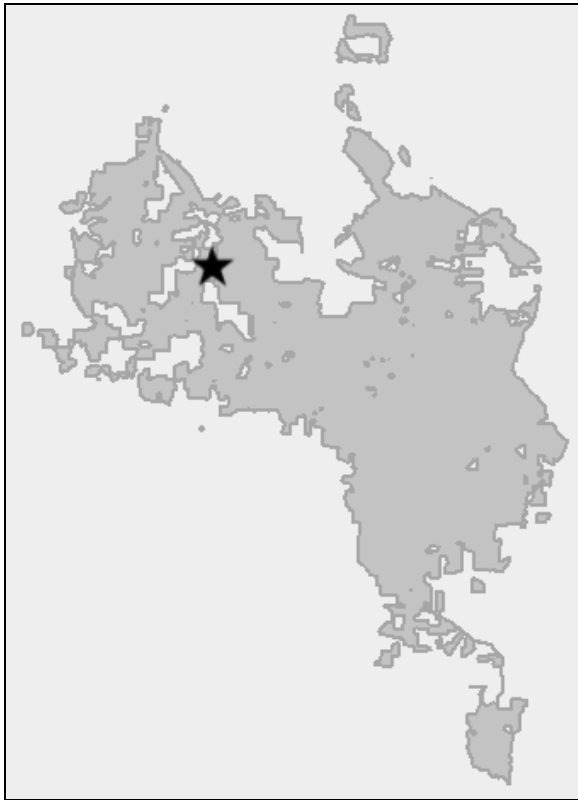
PROJECT DESCRIPTION:

This project provides for the cleaning, repair, repainting and application of protective coatings to the Carpenter elevated water storage tank. Total project cost is estimated to be \$750,000. The \$150,000 FY 2017 appropriation funds a condition assessment to determine which sections of the tank require complete restoration. An additional \$600,000 is programmed in FY 2018 for the completion of all restoration and repainting.

PROJECT JUSTIFICATION:

Town staff and condition assessment experts regularly monitor tank condition and general repair needs. Repainting projects are developed based on the appearance of rust, corrosion and general deterioration of a tank's protective coatings. The Carpenter tank was constructed in 2002 and has not yet been repainted. Tank restorations and repaintings typically last for fifteen years.

PROJECT LOCATION:



L. WATER

PROJECT TITLE: Extend Water Mains

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$306,216

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

As water lines are constructed by development, gaps may remain between these new lines and existing portions of the system that were constructed by development or prior capital projects. FY 2017 funding will be used to construct missing links in the water network throughout the utility service area.

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.

M. WATER

PROJECT TITLE: Holly Brook Subdivision Water Lines

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$664,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

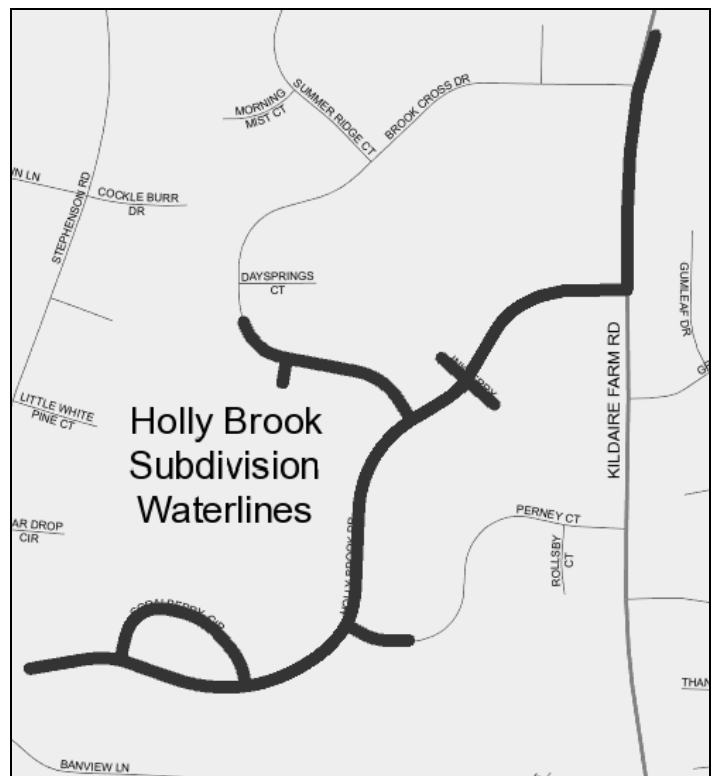
This project provides for the installation of 1,250 linear feet of 12-inch water main, 6,600 linear feet of 8-inch water main, and the installation of connections to 90 individual properties throughout all three phases of the Holly Brook subdivision.

Total project cost is estimated at \$2,776,439. Appropriations to date total \$2,112,439 and provide for easement acquisition, design and construction. The \$664,000 FY 2017 appropriation addresses remaining funding needed for project completion.

PROJECT JUSTIFICATION:

The Holly Brook subdivision's request to be annexed by the Town of Cary was approved by the NC Legislature with an effective date of June 30, 2015. The subdivision pursued annexation due to the poor quality of their existing water supply. Annexation into the Town of Cary's utility system means that both water and sewer service will be provided by the Town of Cary. This project addresses the water line extension to serve the Holly Brook subdivision.

PROJECT LOCATION:



N. WATER

PROJECT TITLE: Jordan Lake Partnership

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$40,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project supports the Town of Cary's participation in regional planning for expanded use of Jordan Lake as a water supply. The \$40,000 FY 2017 appropriation provides for the Town's participation in partnership planning efforts and projects which include a more expansive review of future water supply options to benefit the entire region. This funding may also be directed to supplemental tasks that may be identified by the partnership as a whole.

PROJECT JUSTIFICATION:

The Jordan Lake Regional Water Supply Partnership's Memorandum of Understanding (MOU) establishes Durham as the lead agency for the project's general activities and allows for Supplemental Articles to the MOU to define participation by some or all of the partners in additional projects. The Jordan Lake Partnership was created by thirteen Triangle-region jurisdictions and water systems to jointly plan for expanded use of Jordan Lake as a water supply. The partners evaluate water demand and supply on a regional basis; some partners will coordinate Jordan Lake water allocation requests from the State of North Carolina, and some partners will share in the cost and development of facilities to access Jordan Lake on the west side.

PROJECT LOCATION:



O. WATER

PROJECT TITLE: Kildaire Farm Road Water Line Reinforcement - Central

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$2,500,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

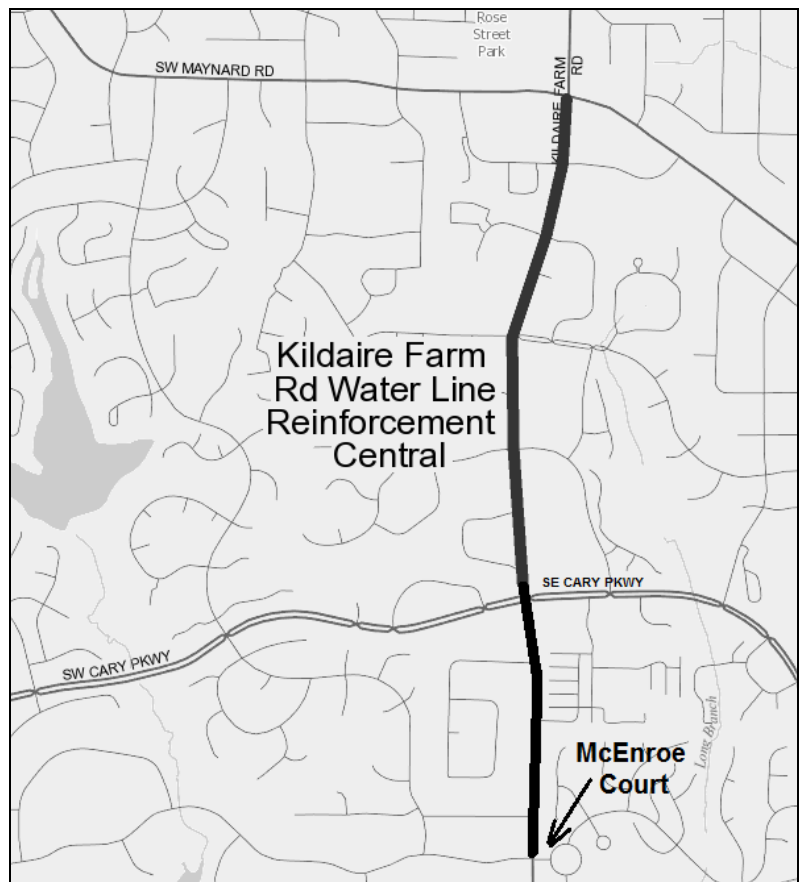
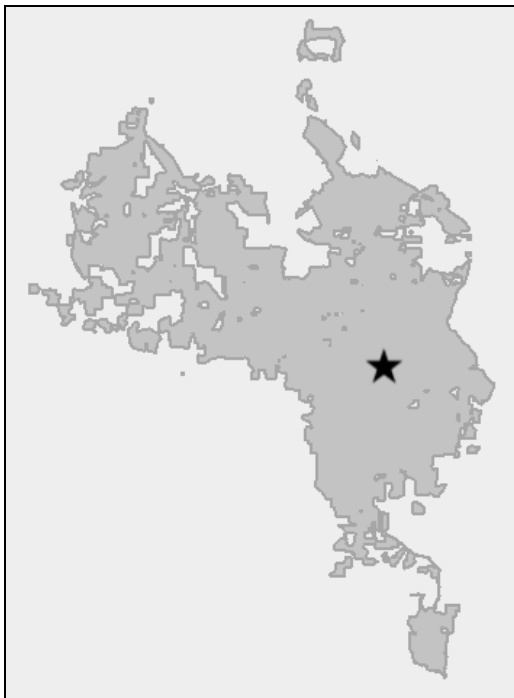
PROJECT DESCRIPTION:

This project provides for the design, easement acquisition, permitting and installation of 7,700 linear feet of 16-inch water line along Kildaire Farm Road between Maynard Road and McEnroe Court to reinforce the existing line. Total project cost is estimated at \$3,100,000. Appropriations to date total \$600,000 and fund easement acquisition and design. The \$2,500,000 FY 2017 appropriation supports construction.

PROJECT JUSTIFICATION:

Reinforcing the existing water line in this manner will provide additional water service capacity to help address peak demand needs and instances where high flow is needed for fire-fighting.

PROJECT LOCATION:



P. WATER

PROJECT TITLE: New Water Storage Tank Sites

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$1,000,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project funds site acquisition for future elevated or ground water storage tanks. One method of reducing water tank design and construction costs is to locate tanks on land with higher elevation. Requirements such as this restrict the number of sites that can be considered for future use. Total project cost is estimated to be \$2,250,000 with \$1,000,000 of this amount appropriated in FY 2017 and the remaining \$1,250,000 programmed in FY 2021.

PROJECT JUSTIFICATION:

This project allows for appropriate sites to be purchased as they become available.

PROJECT LOCATION:

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

Q. WATER

PROJECT TITLE: Remote Water System Programmable Logic Controller Replacements and SCADA Upgrades

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$100,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides funding for the phased upgrade of SCADA system hardware including the programmable logic controllers and radio units that comprise the system. Project cost is estimated at \$150,000. Phased funding will ultimately provide for replacement of fifteen units over three years. The first phase of funding occurred with \$25,000 appropriated in FY 2015. The second appropriation of \$25,000 occurred in FY 2016. The \$100,000 FY 2017 appropriation provides the remaining funds needed for project completion.

PROJECT JUSTIFICATION:

Outdated hardware in the system requires upgrading so that SCADA data collection, system controls and communications platforms remain current, and this system, which is critical to the operation of the Town's water distribution system, continues to function reliably.

PROJECT LOCATION:

The equipment funded by this project will be installed throughout the utility system as needed.

R. WATER

PROJECT TITLE: Towerview Court Water Line Interconnection

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$75,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

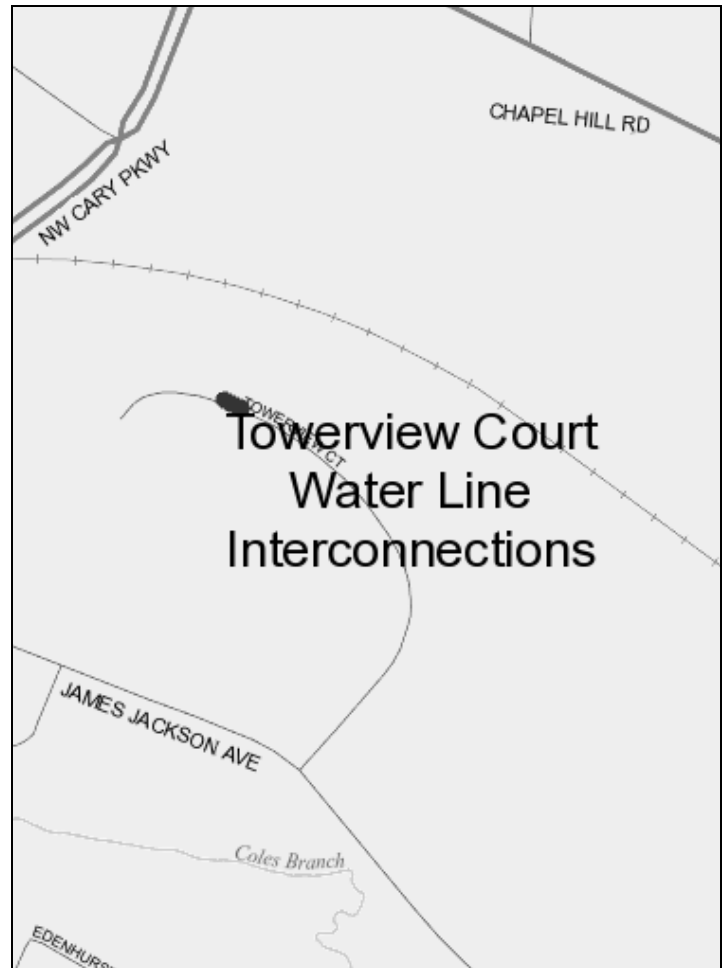
PROJECT DESCRIPTION:

This project provides for the installation of an interconnection between two dead-end, 12-inch water lines located on Towerview Court. The \$75,000 FY 2017 appropriation fully funds this work. The two dead-end lines are fed from opposing directions and terminate approximately 80 feet apart.

PROJECT JUSTIFICATION:

The completion of this interconnection will allow Towerview Court and Cary Parkway to receive water from one another in the event of a water line break on James Jackson Avenue.

PROJECT LOCATION:



S. WATER

PROJECT TITLE: Truck, Dump, 10-11 Cubic Yard - Water

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$127,110

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the replacement of one 10-11 cubic yard dump truck (equipment #1977) to be used by the Town's Utilities department.

PROJECT JUSTIFICATION:

The Town's Fleet Management staff has reviewed the existing dump truck and determined that this piece of equipment has met its life expectancy based on years, hours, maintenance and repair.

PROJECT LOCATION:

This equipment will be utilized throughout the Town as the need arises.

T. WATER

PROJECT TITLE: Truck, Dump, 12-14 Cubic Yard - Water

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$167,181

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the replacement of one 12-14 cubic yard dump truck (equipment #2079) to be used by the Town's Utilities department.

PROJECT JUSTIFICATION:

The Town's Fleet Management staff has reviewed the existing dump truck and determined that this piece of equipment has met its life expectancy based on years, hours, maintenance and repair.

PROJECT LOCATION:

This equipment will be utilized throughout the Town as the need arises.

U. WATER

PROJECT TITLE: Truck, Dump, with Crane, 0-25 Feet - Water

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$123,279

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the replacement of one crane truck (equipment #2309) to be used by the Town's Utilities department.

PROJECT JUSTIFICATION:

The Town's Fleet Management staff has reviewed the existing crane truck and determined that this piece of equipment has met its life expectancy based on years, hours, maintenance and repair.

PROJECT LOCATION:

This equipment will be utilized throughout the Town as the need arises.

V. 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 staffs jointly identify acute needs through field research study. Once these needs are identified and 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 is service related. It improves 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 distribution system as identified by Utilities and Water Resources staff.

W. WATER

PROJECT TITLE: Valve Operating and Exercising Machine

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$100,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

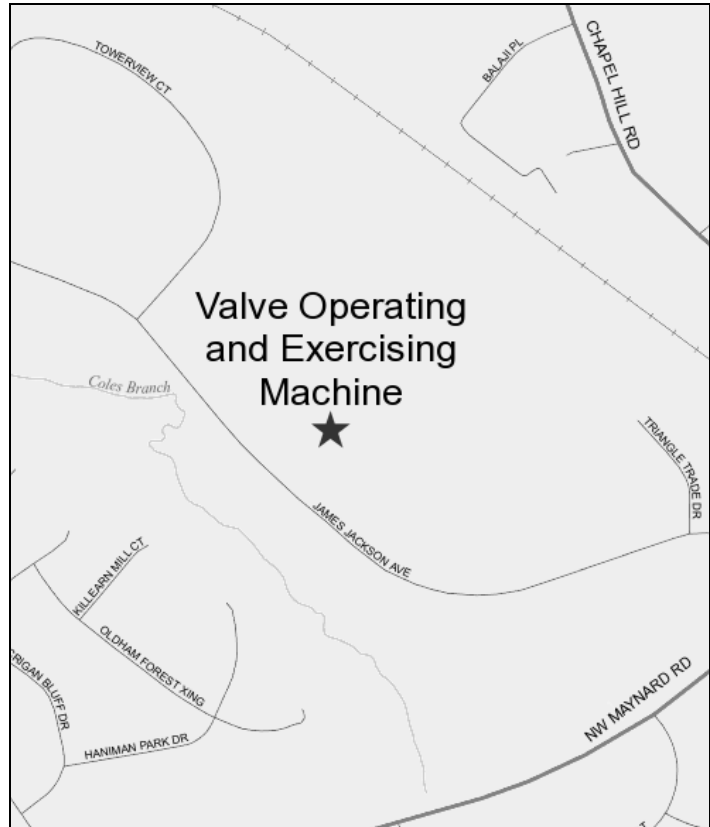
PROJECT DESCRIPTION:

This project provides for the purchase of one trailer-mounted valve operating machine. The \$100,000 FY 2017 appropriation fully funds this purchase.

PROJECT JUSTIFICATION:

The Town currently owns and operates one trailer-mounted valve operating machine. This project provides for the addition of a second machine. This particular machine is especially beneficial for operating larger valves in the water distribution system with specific torque requirements for proper operation. Larger valves can require a range of 600 or greater turns for proper operation, which can mean that a single valve operation can take more than two hours to complete. Given the size, scale and importance of main line valves in the water distribution system, this type of valve operating system protects the valve from damage and ensures proper operation in accordance with manufacturer's specifications.

PROJECT LOCATION:



X. WATER

PROJECT TITLE: Water Line Oversizings

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$152,000

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.

PROJECT JUSTIFICATION:

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. The Water Line Oversizings capital project is growth-related and will increase the Town's utility service area.

PROJECT LOCATION:

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

Y. 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.

PROJECT JUSTIFICATION:

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.

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 being 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 in various locations throughout the Town's utility system as the need arises.

Z. WATER

PROJECT TITLE: Water Resource Planning and Management

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$196,715

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the integration and updating of plans for water supply and treatment, water conservation, discharge and reclaimed water use. These plans focus on the impacts of water conservation and reclaimed water on the Town's need for raw water supply and wastewater treatment facilities. Specific activities continue to focus on inter-basin transfer and raw water supply and include: 1) developing strategies to meet inter-basin transfer certificate requirements and 2) evaluating impacts of the water conservation program on water demands and facility needs.

PROJECT JUSTIFICATION:

This project will result in the provision of a cost effective and adequate supply of treated water that meets the Town of Cary's wastewater treatment needs while complying with the Town's inter-basin transfer certificate. The feasibility analyses and related studies funded by this project will be completed prior to selection and implementation of specific water resource management options.

PROJECT LOCATION:

There is no specific location tied to this water resource planning capital project.

AA. WATER

PROJECT TITLE: Water Resources Master Plan

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$400,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for an update of the Town's integrated, comprehensive planning document governing water supply, water treatment, reclaimed water use, demand management and wastewater treatment. The water resources master plan update is estimated to cost \$500,000. The \$100,000 appropriated to date provides initial funding for consultant work, while the \$400,000 appropriated in FY 2017 supports project completion.

PROJECT JUSTIFICATION:

The updated plan will include a reliability assessment and identification of near term actions needed to cost effectively ensure safe, reliable water supply for the next 50 years. This Master Plan will be the first to benefit from the enhanced understanding of water use obtained through Aquastar data analysis. The Town assumes that this plan will next be updated in FYs 2024 and 2025.

PROJECT LOCATION:

There is no specific location tied to this water resources master planning capital project.

AB. WATER

PROJECT TITLE: Water System – Air Release Valve Replacements

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$150,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides funding for air release valve (ARV) testing, inspection and replacement throughout the water distribution system. Total project cost is estimated at \$450,000. Testing, inspection and replacement are phased over three years with the \$150,000 FY 2017 appropriation supporting the first phase. Additional \$150,000 appropriations are programmed in fiscal years 2018 and 2019 for the remaining two phases.

PROJECT JUSTIFICATION:

Air release valves release air at higher elevations within the water system pipelines. Proper operation of air release valves reduces energy demand and helps prevent “water hammer” which can trigger water main breaks and water system leaks. This project focuses on replacing ARVs in areas with aging pipelines at greater risk of failure or consequence of failure.

PROJECT LOCATION:

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

AC. 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 2017 – 2027 CIB/P. This level of funding provides for location of 8 to 12 miles of line coverage per year.

PROJECT JUSTIFICATION:

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 LOCATION:

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

AD. WATER

PROJECT TITLE: Water System – Valve Replacements

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$125,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for replacement of aging valve installations within the water distribution system. The primary focus of this project is valve replacements on pipelines 12-inches or larger, although smaller sizes may also be included. This project is recurring in nature with a \$125,000 funding need identified in each year of the FYs 2017 – 2027 CIB/P.

PROJECT JUSTIFICATION:

The Town's water system includes more than 25,000 valves. As the system ages, proper valve operation and maintenance is essential in supporting aging pipeline renewal and replacement and for timely and responsive isolation of water main breaks.

PROJECT LOCATION:

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

FISCAL YEAR 2017 UTILITY CAPITAL IMPROVEMENTS

SEWER CAPITAL IMPROVEMENTS FUND

A.	1,000,000	Basin W12 Regional Pump Station, Gravity Sewer and Force Main
B.	93,503	Bobcat - Sewer
C.	150,000	Carystone Pump Station Elimination
D.	426,800	Cleaning and Video Survey of Sewer Interceptors
E.	134,010	Extend Reclaimed Water Mains
F.	269,000	Hollybrook Phases I, II and III Sewer Extension
G.	2,000,000	Lower Swift Creek Parallel Interceptor
H.	150,000	MacGregor Park Pump Station Elimination
I.	50,000	NCWRF - Clarifier Equipment Repair and Replacement
J.	15,000	NCWRF - HVAC Replacements
K.	200,000	NCWRF - Mixer Replacements
L.	90,000	NCWRF - Mobile Engine Driven Pump Replacement
M.	4,300,000	NCWRF - Partial and Full Diffused Air System
N.	1,570,000	RDU Center Pump Station Force Main Replacement
O.	159,500	Reclaimed Water Line Oversizings
P.	190,000	Sanitary Sewer Oversizings
Q.	5,985,982	Sewer System Repair/Rehabilitation
R.	200,000	SCWRF - Clarifier Equipment Repair and Replacement
S.	125,000	SCWRF - Demolition of Lagoons
T.	90,000	SCWRF - Generator Automated Transfer Switch Replacement
U.	100,000	SCWRF - Thermal Biosolids Dryer - Dewatered Cake Mixer Repair and Replacement
V.	50,000	SCWRF - Thermal Biosolids Dryer - Dewatered Cake Pump
W.	100,000	SCWRF - Thermal Biosolids Dryer - Induction Fan Replacement
X.	1,000,000	SCWRF - Thermal Biosolids Dryer - Rotary Drum Replacement
Y.	127,110	Truck, Dump, 10 - 11 Cubic Yard - Sewer

FISCAL YEAR 2017 UTILITY CAPITAL IMPROVEMENTS

SEWER CAPITAL IMPROVEMENTS FUND - Continued

Z.	2,400,000	Upper Crabtree Creek Pump Station and Force Main
AA.	304,000	Van with Closed Circuit TV (Replacement) - Sewer
AB.	35,000	WWWRF - Process Instrumentation Analyzers

21,314,905 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 2017 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: Basin W12 Regional Pump Station, Gravity Sewer and Force Main

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$1,000,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

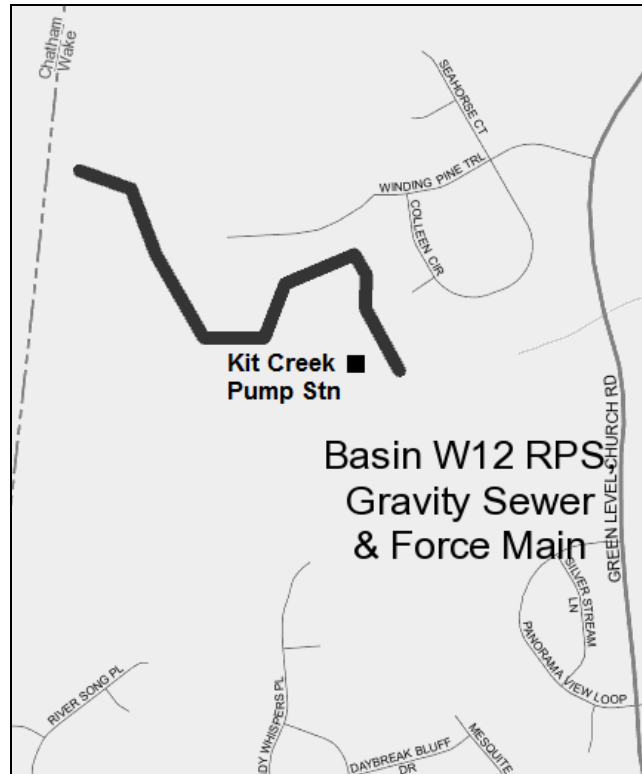
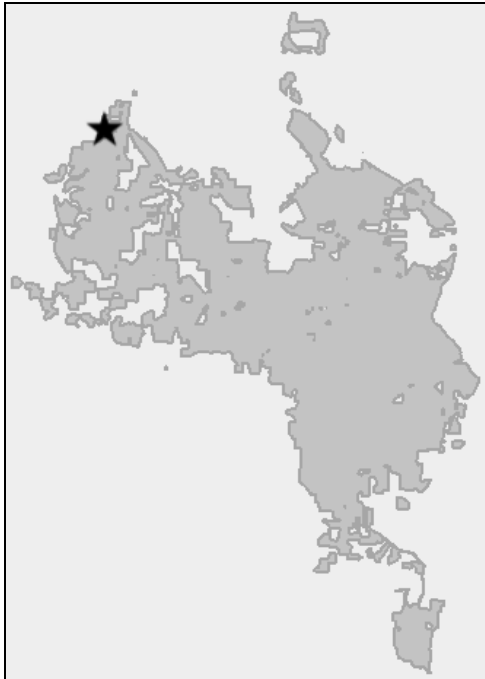
This project provides for the design, easement acquisition, permitting and construction of a 5 MGD regional pump station downstream of the existing Kit Creek pump station. The project will also design and install 2,300 linear feet of 42-inch gravity sewer line and 2,300 linear feet of 20 inch force main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

Project cost is estimated at \$5,800,000. Appropriations to date of \$800,000 fund a preliminary engineering report to confirm the size of the proposed pump station, construction timing and estimated project cost. The \$1,000,000 FY 2017 appropriation provides for easement acquisition and design. The \$4,000,000 programmed in FY 2018 of the capital improvements plan 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:



B. SEWER

PROJECT TITLE: Bobcat - Sewer

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$93,503

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the replacement of one bobcat equipped with a skid loader (equipment #2287) to be used by the Town's Utilities department.

PROJECT JUSTIFICATION:

The Town's Fleet Management staff has reviewed the existing bobcat and determined that this piece of equipment has met its life expectancy based on years, hours, maintenance and repair.

PROJECT LOCATION:

This equipment will be utilized throughout the Town as the need arises.

C. SEWER

PROJECT TITLE: Carystone Pump Station Elimination

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$150,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

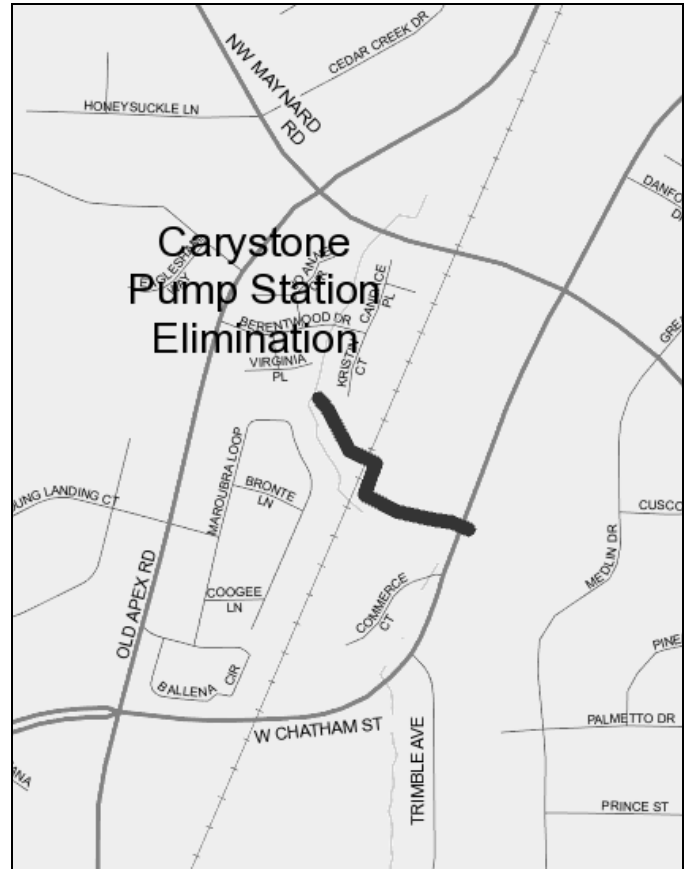
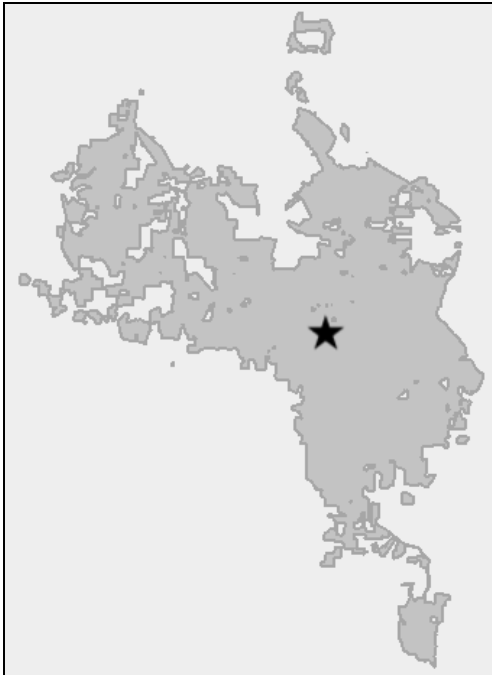
PROJECT DESCRIPTION:

This project provides for the elimination of the Carystone pump station through the installation of approximately 950 linear feet of new 8-inch gravity sewer line. The new gravity sewer line will tie into existing sewer infrastructure at West Chatham Street just north of Trimble Avenue. Total project cost is estimated to be \$410,000. Appropriations to date of \$260,000 support easement acquisition, design and initial construction funding, while the \$150,000 FY 2017 appropriation supports remaining construction needs.

PROJECT JUSTIFICATION:

The removal of the Carystone pump station and installation of new gravity sewer benefits the Town by eliminating operation and maintenance costs associated with the pump station.

PROJECT LOCATION:



D. SEWER

PROJECT TITLE: Cleaning and Video Survey of Sewer Interceptors

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$426,800

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:

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 in various locations throughout the Town's utility system as the need arises.

E. SEWER

PROJECT TITLE: Extend Reclaimed Water Mains

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$134,010

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 2017 appropriation for this initiative totals \$134,010. Eventually, as the reclaimed water system network becomes more developed, the funding need for this program will decrease.

PROJECT JUSTIFICATION:

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 LOCATION:

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

F. SEWER

PROJECT TITLE: Holly Brook – Phase I, II and III Sewer Extension

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$269,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

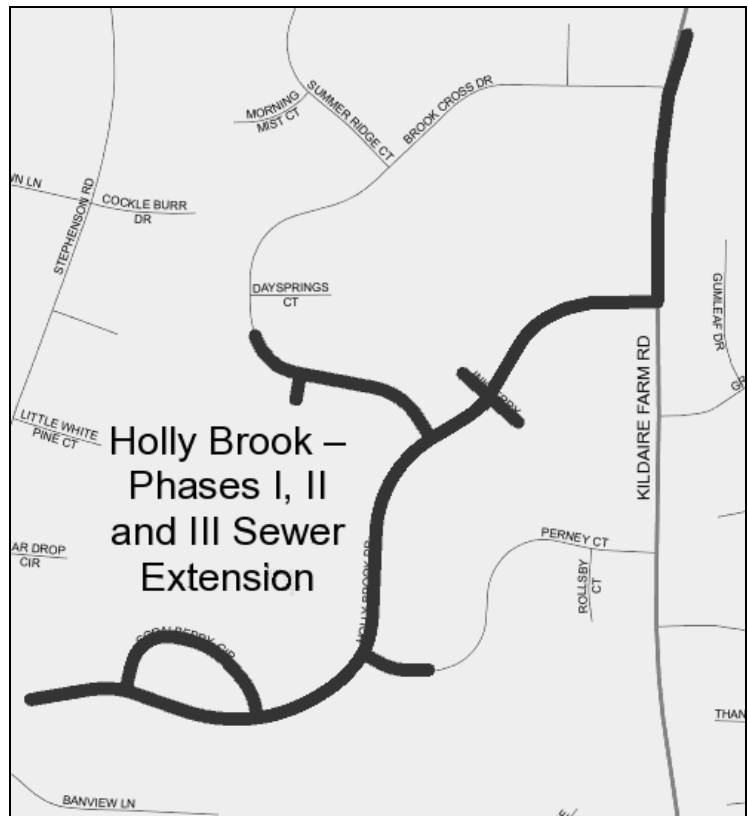
This project provides for the extension of 5,700 linear feet of 8-inch gravity sewer line and installation of service connections to 90 individual properties within the Holly Brook subdivision.

Total project cost is estimated at \$2,886,706. Appropriations to date total \$2,617,706 and provide for easement acquisition, design and construction. The \$269,000 FY 2017 appropriation addresses remaining funding needed for project completion.

PROJECT JUSTIFICATION:

The Holly Brook subdivision's request to be annexed by the Town of Cary was approved by the NC Legislature with an effective date of June 30, 2015. The subdivision pursued annexation due to failure of its community sewer system. Annexation into the Town of Cary's utility system means that both water and sewer service will be provided by the Town of Cary. This project addresses the sewer line extension to serve the Holly Brook subdivision.

PROJECT LOCATION:



G. SEWER

PROJECT TITLE: Lower Swift Creek Parallel Interceptor

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$2,000,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

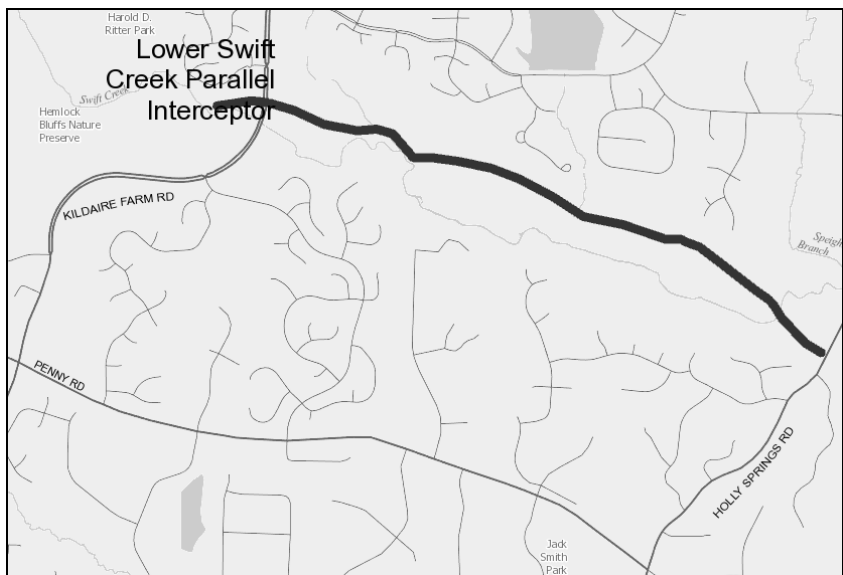
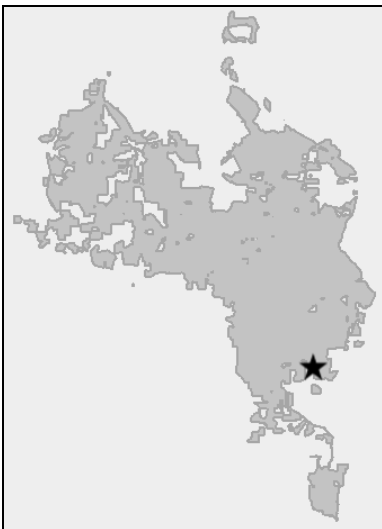
PROJECT DESCRIPTION:

This project provides for easement acquisition, design and construction of one of two parallel line alternatives along the Lower Swift Creek interceptor. Staff is still in the process of monitoring this interceptor, so a final recommendation on how to address surcharging within the existing Lower Swift Creek interceptor has not yet been made. Total project cost is estimated at \$3,150,000. Appropriations to date of \$1,150,000 support easement acquisition, design and construction for 1,500 linear feet of 36-inch gravity sewer line (known as Alternative 1 in the Lower Swift Creek Preliminary Engineering Review document). The \$2,000,000 FY 2017 appropriation provides for the additional easement acquisition, design and construction needed for the installation of 5,500 linear feet of 36-inch sewer line parallel to the existing Swift Creek Interceptor (known as Alternative 2 in the Lower Swift Creek Preliminary Engineering Review document).

PROJECT JUSTIFICATION:

A parallel interceptor along the existing Swift Creek Interceptor will decrease the opportunity for surcharging within the existing interceptor during heavy rainfall and other wet weather events. This project previously noted a funding need in FY 2021, rather than FY 2017. However, field observations along the Swift Creek Interceptor have shown evidence that this line has experienced surcharging during the past year. Staff will continue to conduct detailed flow monitoring and analyze results to decide which alternative to construct. Should continued flow monitoring confirm that the Town does not need to construct Alternative 2, the project budget will be reduced accordingly and funds returned to capital reserve fund balance.

PROJECT LOCATION:



H. SEWER

PROJECT TITLE: MacGregor Park Pump Station Elimination

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$150,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

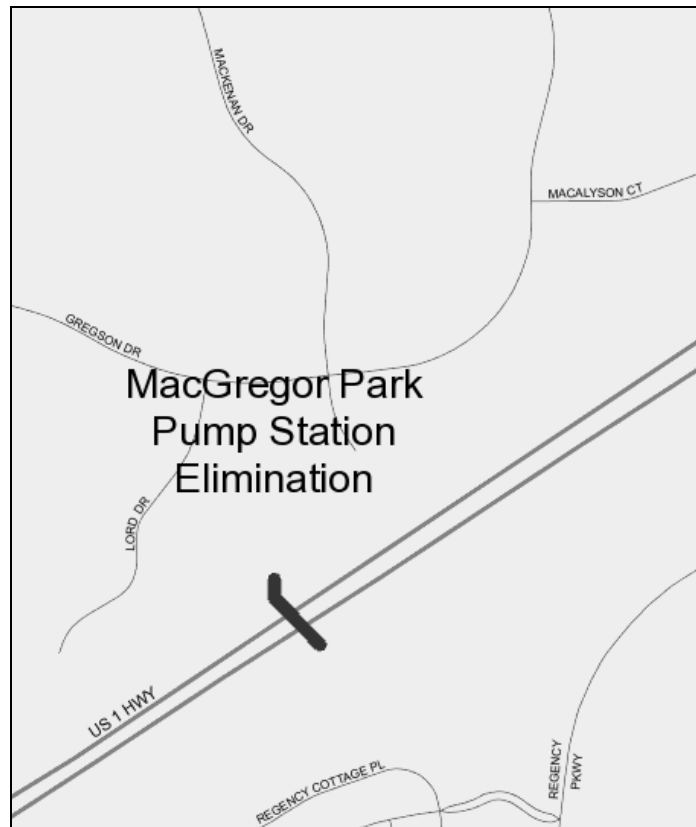
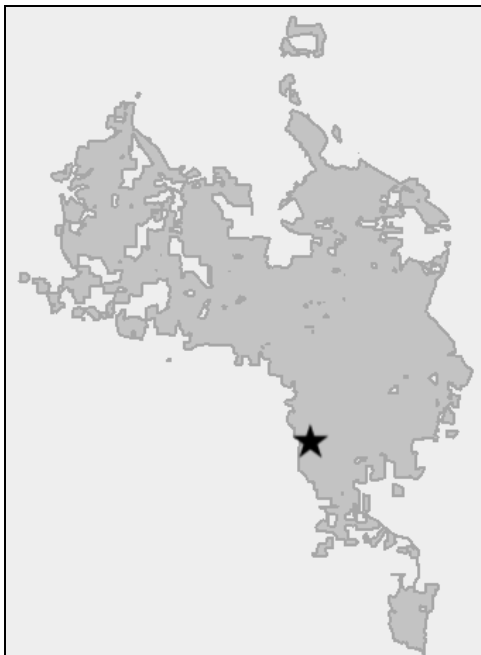
This project provides for the elimination of the MacGregor Park pump station through the installation of approximately 300 linear feet of new 8-inch gravity sewer line that crosses under US 1 just one mile south of US 64. The new gravity sewer will connect to an existing 8-inch ductile iron pipe within the Regency Creek development on Regency Parkway.

Total project cost is estimated at \$360,000. The \$210,000 appropriated through FY 2016 supports design and a portion of construction. The remaining \$150,000 appropriated in FY 2017 addresses remaining construction funding needs.

PROJECT JUSTIFICATION:

As pump stations require a high level of maintenance, and constantly utilize electricity to operate, it is the Town's preference to eliminate them whenever possible.

PROJECT LOCATION:



I. SEWER

PROJECT TITLE: North Cary Water Reclamation Facility - Clarifier Equipment Repair and Replacement

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$50,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

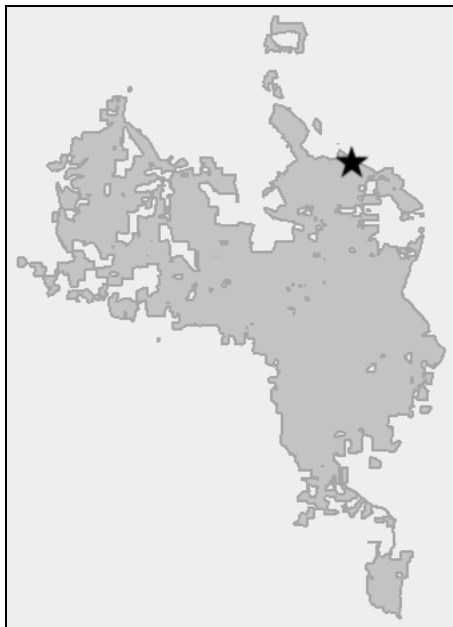
The North Cary Water Reclamation Facility consists of three biological nutrient removal (BNR) basins and three secondary clarifiers. The BNR basins provide conditions where the bacterial population consumes the available food and nutrients (waste water) prior to gravity separation. Flow from the BNR process reactors moves through pipes into three 130' diameter clarifiers. This is where the bacterial population (bio-mass) separates from the clear water. The primary purpose of the clarifiers is to separate the bio-mass and return it to the BNR tanks while allowing clear water to pass over fixed weirs.

Project cost is estimated at \$350,000. The \$150,000 appropriated to date, combined with the \$50,000 FY 2017 appropriation and a \$150,000 FY 2018 programmed funding need in the capital improvements plan, supports the repair of all clarifiers and the replacement of all associated water lines.

PROJECT JUSTIFICATION:

The mechanical parts of the clarifiers were last rebuilt in 2002. This project provides phased funding for the predictive maintenance required on the clarifiers and the replacement of galvanized waterlines on the associated BNR trains.

PROJECT LOCATION:



J. SEWER

PROJECT TITLE: North Cary Water Reclamation Facility – HVAC Replacements

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$15,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

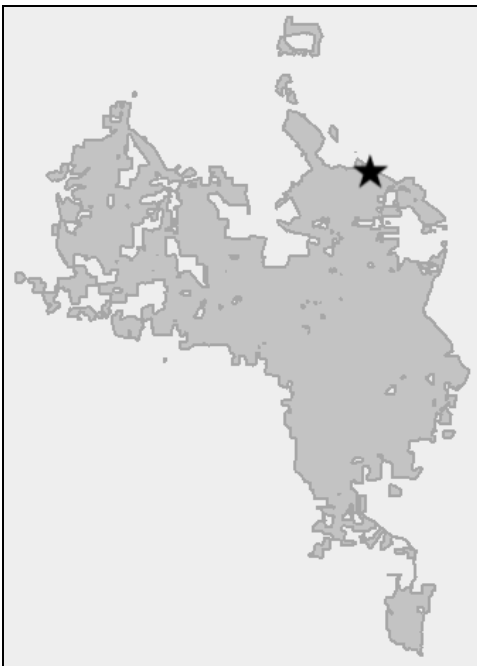
PROJECT DESCRIPTION:

This project provides for the replacement of the Administration Building - West's air conditioning unit at the North Cary Water Reclamation Facility. The \$15,000 FY 2017 appropriation fully funds this HVAC unit's replacement.

PROJECT JUSTIFICATION:

The Administration Building – West's unit is 20 years old and has reached the end of its useful life.

PROJECT LOCATION:



K. SEWER

PROJECT TITLE: North Cary Water Reclamation Facility – Mixer Replacements

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$200,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

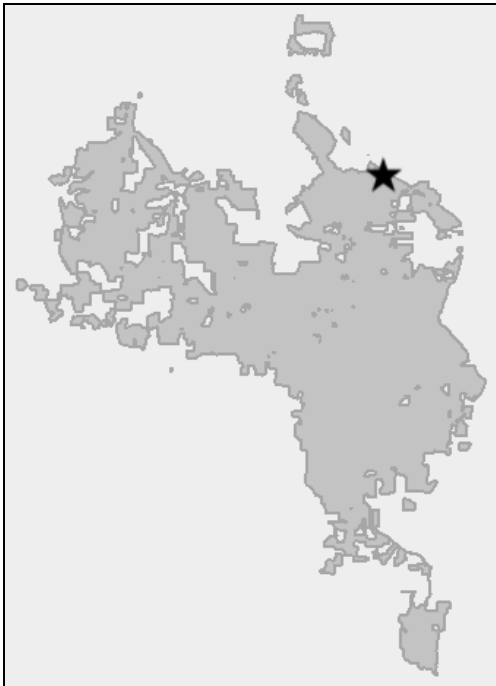
PROJECT DESCRIPTION:

This project provides for the replacement of 36 mixers located in three separate treatment basins at the North Cary Water Reclamation Facility (NCWRF). Total project cost to replace all 36 mixers is estimated at \$700,000. The \$300,000 appropriated to date supports replacement of 18 mixers. The \$200,000 FY 2017 appropriation replaces another 13 mixers, while \$200,000 programmed for FY 2018 would not only replace the remaining 5 mixers, but also fund updated start-up controls and related services for all replaced mixers.

PROJECT JUSTIFICATION:

The mixers located at the NCWRF run continuously. This equipment plays an important role in the facility's overall wastewater treatment process by creating physical conditions that support biological removal of nutrients and other wastewater parameters as required by the Town's National Pollutant Discharge Elimination System (NPDES) permits.

PROJECT LOCATION:



L. SEWER

PROJECT TITLE: North Cary Water Reclamation Facility – Mobile Engine Driven Pump Replacement

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$90,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

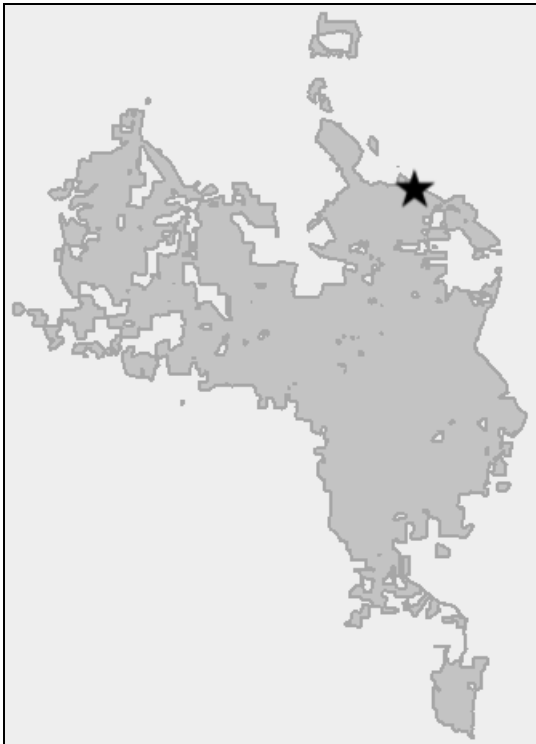
PROJECT DESCRIPTION:

This project provides for replacement of the mobile engine driven pump located at the North Cary Water Reclamation Facility (NCWRF). The \$90,000 FY 2017 appropriation fully funds this replacement.

PROJECT JUSTIFICATION:

The NCWRF has drainage capabilities in most of its onsite tanks and structures. However, the majority of these drains and associated pipes are undersized and inadequate to reduce tank volumes within a reasonable amount of time. It can take anywhere from one day to several days to drain a single tank, which leads staff to set up temporary pumping to empty tanks for maintenance and routine inspection in a more timely fashion. The facility utilizes two, 6-inch, portable diesel centrifugal pumps that are each more than 20 years old to drain tanks. This project replaces one of the 6-inch pumps with an 8-inch sound attenuated, trailer-mounted pump. This replacement unit will provide the pumping capacity required at the NCWRF in a quiet package that could be deployed to another facility if needed.

PROJECT LOCATION:



M. SEWER

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

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$4,300,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

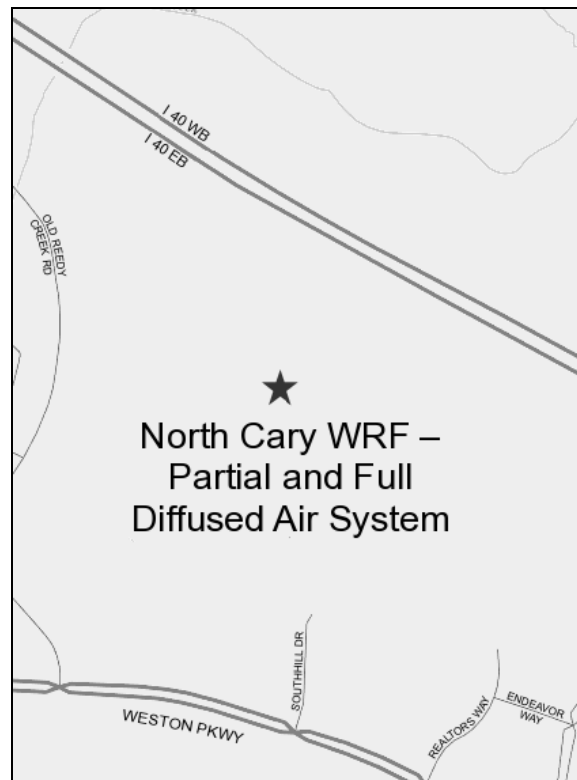
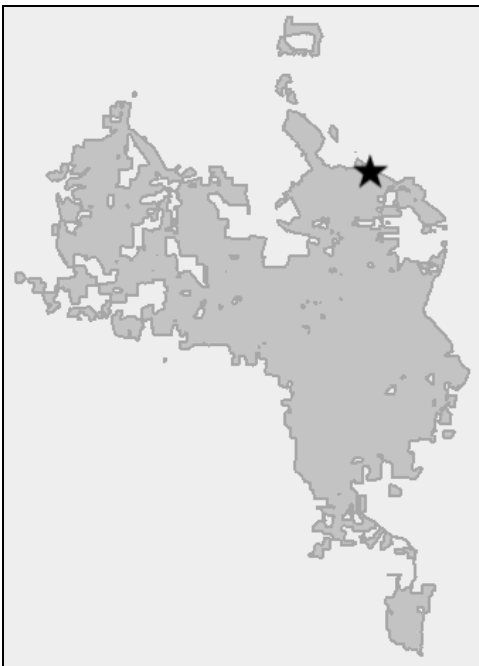
PROJECT DESCRIPTION:

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. Total project cost is estimated at \$6,800,000. Appropriations to date total \$2,500,000 and address initial construction needs. The \$4,300,000 FY 2017 appropriation fully funds construction and project completion.

PROJECT JUSTIFICATION:

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. 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:



N. SEWER

PROJECT TITLE: RDU Center Pump Station Force Main Replacement

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$1,570,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

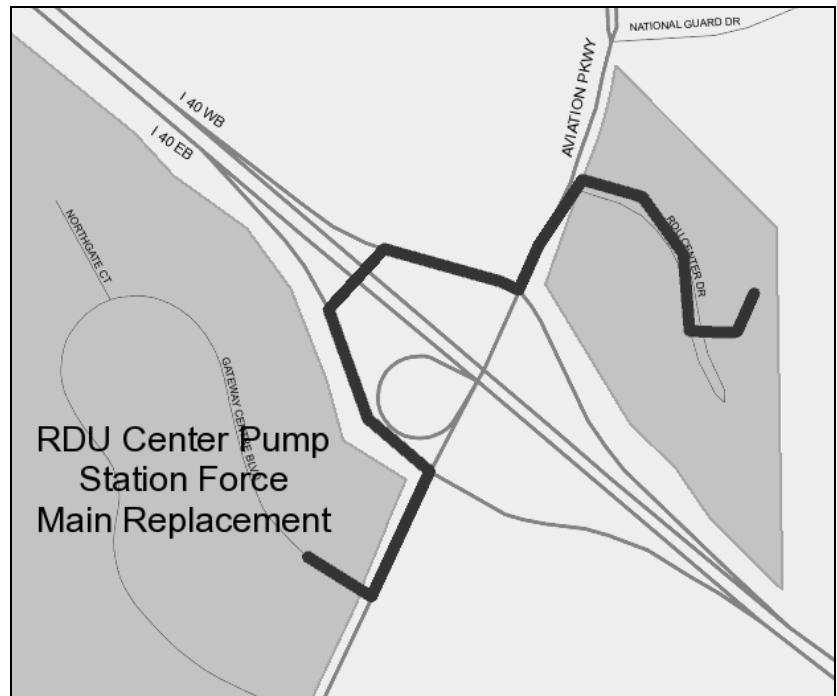
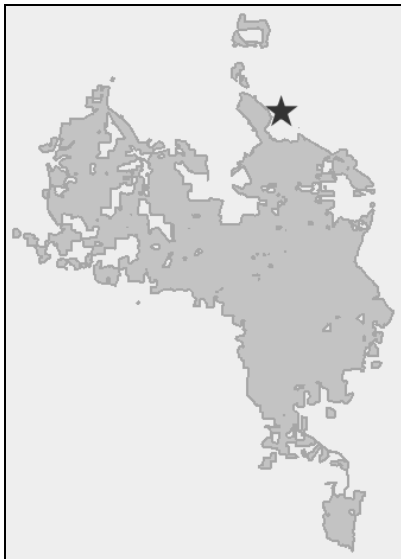
PROJECT DESCRIPTION:

This project provides for the installation of 5,140 linear feet of 8-inch force main to replace the existing RDU Center Pump Station force main as recommended in a condition assessment conducted by external consultants and presented to the Town in September 2015. The \$1,570,000 FY 2017 appropriation fully funds the easement acquisition, design and construction needed for project completion.

PROJECT JUSTIFICATION:

Recent inspection and condition assessment of critical wastewater force mains identified the RDU Center Force Main as being in poor condition as it has experienced significant loss in pipe wall thickness due to internal corrosion.

PROJECT LOCATION:



O. SEWER

PROJECT TITLE: Reclaimed Water Line Oversizings

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$159,500

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

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

PROJECT JUSTIFICATION:

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 LOCATION:

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

P. SEWER

PROJECT TITLE: Sanitary Sewer Oversizings

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$190,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

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

PROJECT JUSTIFICATION:

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 lines.

PROJECT LOCATION:

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

Q. SEWER

PROJECT TITLE: Sewer System Repair/Rehabilitation

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$5,985,982

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:

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

R. SEWER

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

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$200,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for phased repairs to the skimming, weirs, rakes, and drive structures with assemblies on the four existing secondary clarifiers at the South Cary Water Reclamation Facility. Total project cost is estimated at \$500,000. The \$200,000 FY 2017 appropriation provides for significant repairs to one of two clarifiers that have been in operation for 25 years. The \$200,000 programmed in FY 2018 supports repairs to the second of the oldest clarifiers, while \$100,000 programmed in FY 2019 would address repairs to the two newer clarifiers that are each 16 years old.

PROJECT JUSTIFICATION:

The manufacturer's recommendation for rebuild/significant repair of the clarifiers is approximately every 15 years.

PROJECT LOCATION:



S. SEWER

PROJECT TITLE: South Cary Water Reclamation Facility – Demolition of Lagoons

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$125,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the demolition of a storage lagoon at the South Cary Water Reclamation Facility. The demolition process includes grading and excavation to collapse the lagoon and restore a finished grade to the area, as well as removal of infrastructure such as liners and pipes. Total project cost is estimated to be \$325,000. Appropriations to date total \$200,000. The \$125,000 FY 2017 appropriation provides for project completion.

PROJECT JUSTIFICATION:

The existing lagoon at the South Cary Water Reclamation Facility (SCWRF) was utilized from the late 1990s through 2006 as an additional storage site for biosolids residuals generated by the wastewater treatment process. Upgrades to the SCWRF have eliminated the need for this storage lagoon leading to staff's decision to remove it from the plant site.

PROJECT LOCATION:



T. SEWER

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

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$90,000

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). The \$90,000 FY 2017 appropriation fully funds this replacement.

PROJECT JUSTIFICATION:

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. 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. The existing switch being replaced is approximately 28 years old and is displaying indications that replacement is warranted.

PROJECT LOCATION:



U. SEWER

PROJECT TITLE: South Cary Water Reclamation Facility – Thermal Biosolids Dryer - Dewatered Cake Mixer Repair and Replacement

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$100,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the rebuild and replacement of the internal and drive components of the wet material mixer unit within the facility’s thermal biosolids dryer system. The \$100,000 FY 2017 appropriation fully funds this replacement. A second rebuild/replacement is anticipated in FY 2022 at a cost of \$150,000.

PROJECT JUSTIFICATION:

The dewatered cake mixer provides optimum granulation of the wet and recycled biosolids prior to processing. The mixer assembly is subject to wear and deterioration associated with routine operation of the thermal drying processes. Rebuilds involve replacement of the inner components, such as scrapers, plows, metallic liner, bearings, seals and motor and gear reducers.

PROJECT LOCATION:



V. SEWER

PROJECT TITLE: South Cary Water Reclamation Facility – Thermal Biosolids Dryer - Dewatered Cake Pump

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$50,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the installation of a secondary dewatered cake pump to parallel the existing dewatered cake pump located at the South Cary Water Reclamation Facility (SCWRF). The dewatered cake pump is an essential component of the wet material feed system to the thermal biosolids drying process.

The \$175,000 appropriated to date provides initial funding for purchase and installation of the second dewatered cake pump at the South Cary Water Reclamation Facility. The \$50,000 FY 2017 appropriation provides remaining funding needed for project completion. The next replacement of this equipment is not anticipated until FY 2027.

PROJECT JUSTIFICATION:

The installation of a second dewatered cake pump allows the thermal biosolids drying process to continue operating when repairs must be made to the other pump. Currently, the entire thermal biosolids drying process is out of service when the single dewatered cake pump requires maintenance or repair.

PROJECT LOCATION:



W. SEWER

PROJECT TITLE: South Cary Water Reclamation Facility – Thermal Biosolids Dryer - Induction Fan Replacement

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$100,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

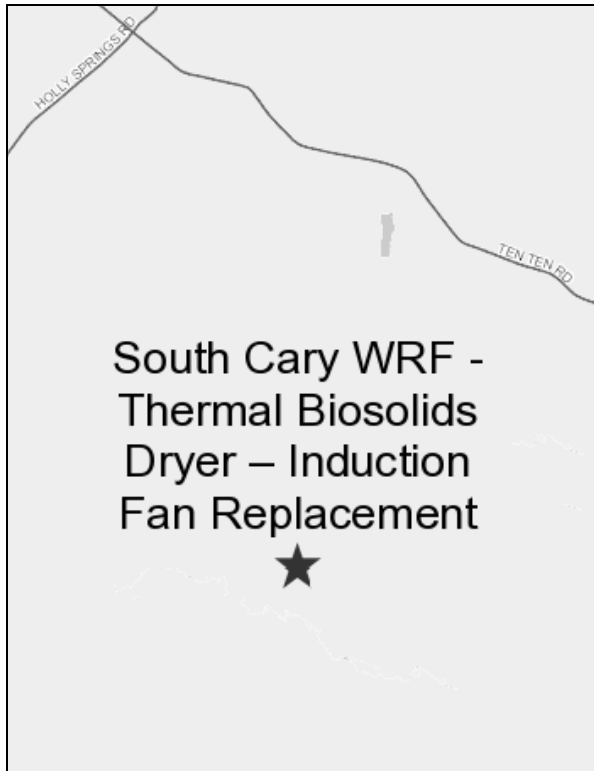
PROJECT DESCRIPTION:

This project provides for the rebuild and replacement of the induction fan and dampener components of the process air handling equipment located at the South Cary Water Reclamation Facility (SCWRF). The fan and dampener assemblies are subject to wear and deterioration associated with routine operation of the thermal drying processes. The \$100,000 FY 2017 appropriation fully funds these replacements. The next replacement of this equipment is not anticipated until FY 2025.

PROJECT JUSTIFICATION:

The induction fan provides all of the process air conveyance for the entire drying facility. The current system has been in nearly continuous service since the drying facility began operating in 2005. This system is nearing the end of design life and requires replacement to prevent potential system failure which would impact the drying system serving both the North and South Cary Water Reclamation Facilities.

PROJECT LOCATION:



X. SEWER

PROJECT TITLE: South Cary Water Reclamation Facility – Thermal Biosolids Dryer - Rotary Drum Replacement

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$1,000,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

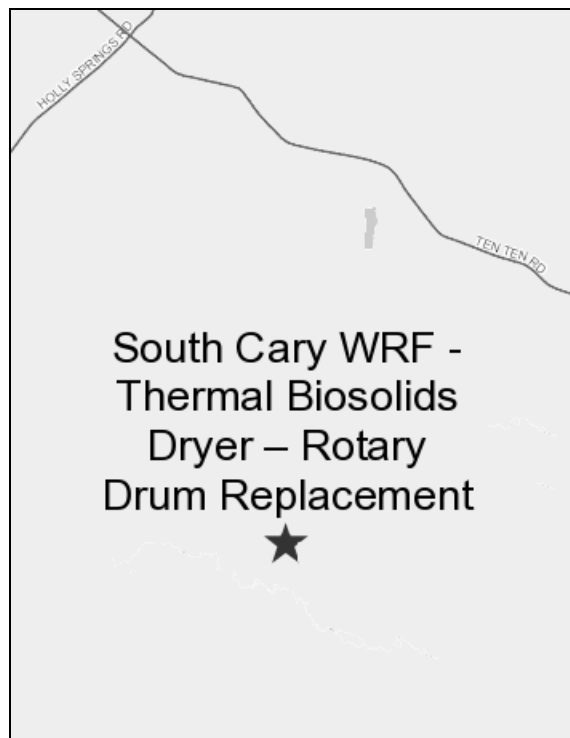
This project provides for replacement of the single rotary drum in use as part of the thermal biosolids drying process at the South Cary Water Reclamation Facility (SCWRF).

Project cost is estimated at \$1,450,000. The \$200,000 appropriated to date funds engineering design services and the preparation of specifications associated with rotary drum replacement. The \$1,000,000 FY 2017 appropriation supports purchase and installation of the replacement drum. A \$250,000 funding need is noted in FY 2026 of the CIP to initiate the replacement process again at the ten year service mark.

PROJECT JUSTIFICATION:

The existing rotary drum drying assembly was purchased and installed at the SCWRF with the startup of the thermal biosolids dryer system in 2005. The rotary drum has a maximum life cycle of 10 – 15 years with routine maintenance. At this time, the rotary drum has already been reconditioned twice due to excessive wear and deterioration.

PROJECT LOCATION:



Y. SEWER

PROJECT TITLE: Truck, Dump, 10-11 Cubic Yard - Sewer

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$127,110

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the replacement of one 10-11 cubic yard dump truck (equipment #1976) to be used by the Town's Utilities department.

PROJECT JUSTIFICATION:

The Town's Fleet Management staff has reviewed the existing dump truck and determined that this piece of equipment has met its life expectancy based on years, hours, maintenance and repair.

PROJECT LOCATION:

This equipment will be utilized throughout the Town as the need arises.

Z. SEWER

PROJECT TITLE: Upper Crabtree Creek Pump Station and Force Main

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$2,400,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

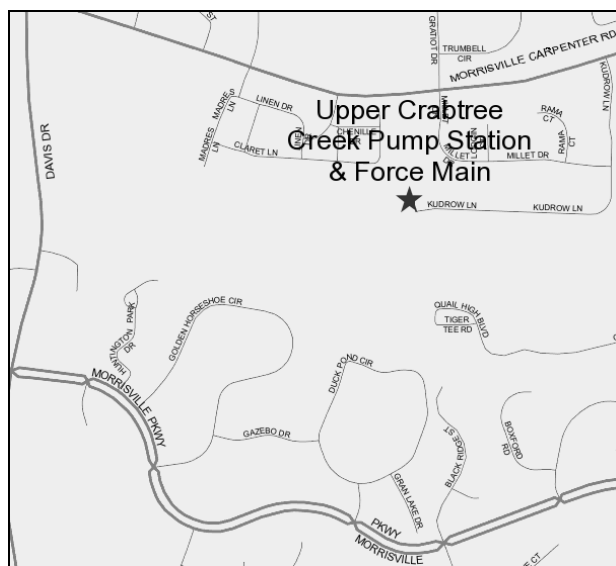
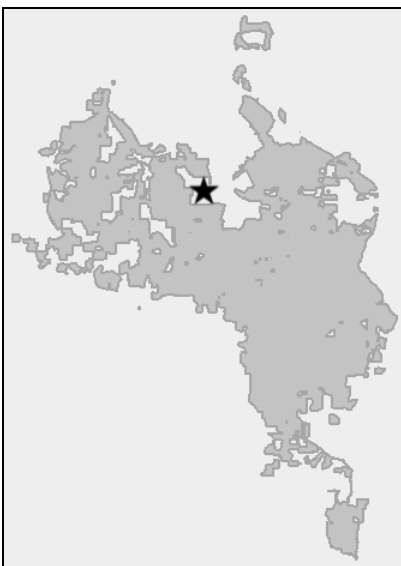
This project supports property acquisition, design and construction of a new facility to manage wet weather peak flows at the North Cary Water Reclamation Facility (NCWRF). This project may consist of the development of a 1.5 million gallon off-line underground storage tank and pump station to return flow to the interceptor during off-peak times, or the development of an up to 6.6 million gallons per day (MGD) pump station and 30,000 linear feet of 20-inch force main to shed excess wet weather flow to the Western Wake Water Reclamation Facility (WWRF). Final system configuration will be determined after completion of the NCWRF capacity analysis review which is currently being prepared by an outside consultant.

Total project cost is estimated at \$21,080,000. Appropriations to date of \$680,000 funded a detailed evaluation of the Crabtree interceptor service area which recommended alternate solutions to the utility system's need in this area. The \$2,400,000 FY 2017 appropriation supports property acquisition and design of the selected alternative. The \$18,000,000 programmed in FY 2018 addresses construction.

PROJECT JUSTIFICATION:

This project will serve Town of Morrisville and Town of Cary flows in the NCWRF service area. The storage tank or the pump station would be located along the Crabtree interceptor west of NC54. Under the second option, the pump station would pump excess wet weather waste water flow from the upper Crabtree Interceptor service area to the West Cary regional pump station via the Batchelor Branch interceptor located west of NC55.

PROJECT LOCATION:



AA. SEWER

PROJECT TITLE: Van with Closed Circuit TV (CCTV) – Replacement - Sewer

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$304,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the replacement of one van outfitted with closed circuit television (CCTV) equipment (equipment #1685) to be used by the Town's Utilities department to view sewer line conditions.

PROJECT JUSTIFICATION:

The Town's Fleet Management staff has reviewed the existing van and determined that this piece of equipment has met its life expectancy based on years, hours, maintenance and repair.

PROJECT LOCATION:

This equipment will be used throughout the Town's utility system as the need arises.

AB. SEWER

PROJECT TITLE: Western Wake Water Reclamation Facility – Process and Instrumentation Analyzers

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$35,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the replacement or upgrade of the two in-line analyzers utilized at the Western Wake Water Reclamation Facility (WWWRF). The \$35,000 FY 2017 appropriation fully funds the needed equipment. Per the Town of Cary and Town of Apex's agreement regarding the Western Wake Water Reclamation Facility, the Town of Apex is responsible for 34% of the project cost while the Town of Cary addresses the remaining 66%.

PROJECT JUSTIFICATION:

The secondary treatment process at the WWWRF utilizes two in-line control monitoring instruments in processes associated with the biological reduction of nutrients. The ammonia probes currently in use do not provide consistently accurate reads for activity that is less than 1.0 mg/L. Additionally, the existing phosphorous analyzers are not equipped with the correct sample pump to obtain a representative sample. This project replaces the ammonia probe with an ammonia analyzer and upgrades the pump on the phosphorous analyzer to one that allows a representative sample to be taken.

PROJECT LOCATION:



FISCAL YEAR 2017 GENERAL CAPITAL IMPROVEMENTS

TRANSPORTATION CAPITAL IMPROVEMENTS FUND

A.	1,027,700	2012 Bond - Sidewalk Facilities
B.	15,000	Cary Transit (C Tran)
C.	3,250,000	Intersection Improvements
D.	1,000,000	Sidewalk and Pedestrian Improvements
E.	<u>5,900,000</u>	Street Improvement Project
	<u>\$11,192,700</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 2017 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: 2012 Bond – Sidewalk Facilities

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$1,027,700

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for design and construction of the following sidewalks which were approved by voters as a part of the 2012 Community Investment Bond Referendum:

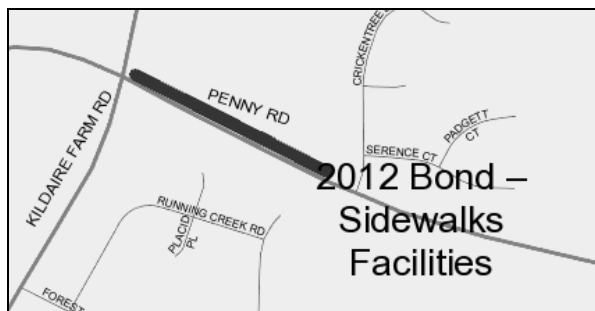
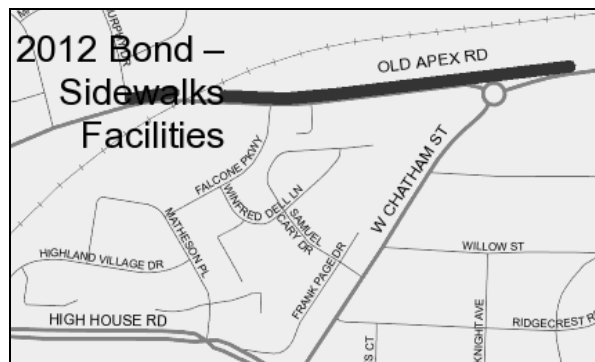
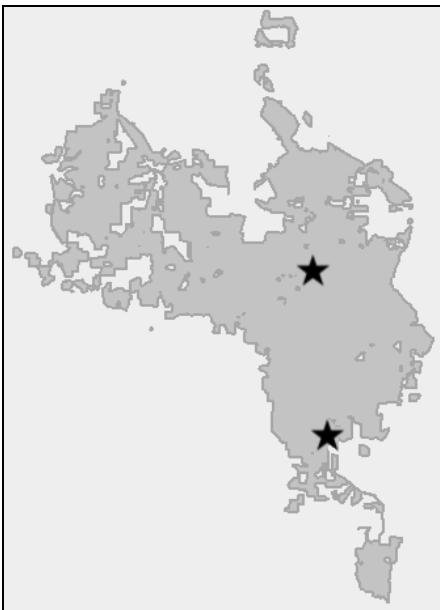
- Cary Towne Boulevard – from Walnut Street to SE Maynard Road
- Olde Weatherstone Way – missing link connecting to Cary Parkway
- Penny Road – from Crickentree Drive to Kildaire Farm Road; scope adjusted to include partial road widening for bikes and curb/gutter
- Old Apex Road – from Murphy Drive to W Chatham Street roundabout; scope adjusted to include partial road widening and pedestrian crossing at CSX Railroad.

Total project cost is estimated at \$1,832,000. Appropriations to date of \$804,300 are entirely supported by 2012 Community Investment Bonds. Additional funding is needed to support construction of the Penny Road and Old Apex Road portions of the project.

PROJECT JUSTIFICATION:

The original project scope supporting the bond referendum focused only on sidewalk development. Staff now recommends partial road widening (including curb and gutter) in conjunction with the sidewalk development for the Penny Road and Old Apex segments. The FY 2017 appropriation of \$1,027,700 provides remaining funds needed to complete this work.

PROJECT LOCATION:



B. TRANSPORTATION

PROJECT TITLE: Cary Transit (C-Tran)

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$15,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides funding for the capital related needs of Cary Transit, which includes transit shelter construction, installation of fare boxes in buses and the addition of amenities and lighting to existing shelters. In years where new shelter construction is budgeted, the location of new shelters will be based on the addition of new routes and customer demand on existing routes.

PROJECT JUSTIFICATION:

As ridership continues to grow, there is a need to add stops with benches and shelters, implement appropriate technology to increase productivity and continue meeting Federal Transit Administration (FTA) regulations. The \$15,000 FY 2017 appropriation provides for improvements such as these.

PROJECT LOCATION:

There is no specific location assigned to this project.

C. TRANSPORTATION

PROJECT TITLE: Intersection Improvements

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$3,250,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the design and construction of turn lane improvements at intersections where congestion and safety issues are apparent. Solutions could include installation of treatments such as roundabouts or directional intersections.

The eleven year project cost is estimated at \$15,250,000. The \$3,250,000 FY 2017 appropriation supports the construction of recommended improvements at five intersections that have been recommended by staff and are under design. However, final design recommendations and/or construction cost estimates could bring to light information leading to changes in this list. The intersections currently being considered are:

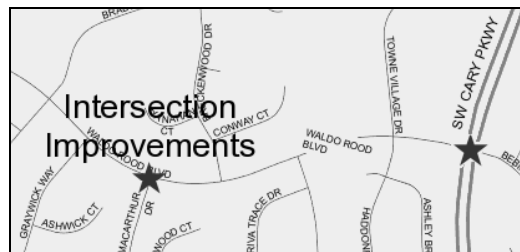
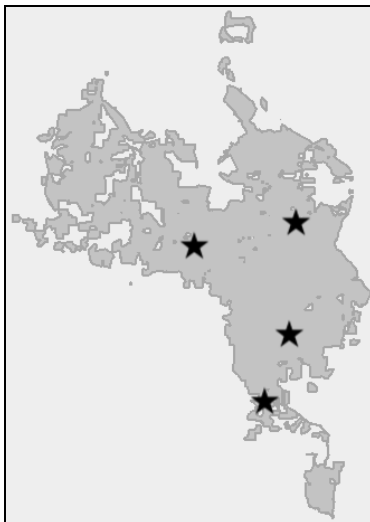
- Chapel Hill Road and Bowden Road and Sorrell Drive
- Kildaire Farm Road and Ten-Ten Road
- SW Cary Parkway and Waldo Rood Boulevard
- Waldo Rood Boulevard and MacArthur Drive
- Kildaire Farm Road and Advent Court

Future year funding needs of \$12,000,000 for design and construction of other intersections are also noted in FYs 2020-2027 of the CIP to address additional intersections.

PROJECT JUSTIFICATION:

Intersections are selected for improvement based upon specific criteria, assigning priority to the worst performing intersections from a travel delay, congestion and safety perspective. These improvements will address pedestrian, bike, and vehicular safety and level of service concerns.

PROJECT LOCATION:



D. TRANSPORTATION

PROJECT TITLE: Sidewalk and Pedestrian Improvements

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$1,000,000

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. Priority projects identified by the Pedestrian Plan Element of the Town's 2008 Comprehensive Transportation Update also may 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 2017 – 2027 is estimated at \$11,775,000. The FY 2017 appropriation totals \$1,000,000. The remaining \$10,775,000 is spread among annual funding needs noted in FYs 2018 – 2027 of the capital improvements plan.

PROJECT JUSTIFICATION:

Sidewalks are important to pedestrian safety and have become more important as an alternative 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.

E. TRANSPORTATION

PROJECT TITLE: Street Improvements Project

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$5,900,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

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. FY 2017 funding is expected to allow for the resurfacing of approximately 20 miles of streets. Funding for this project includes \$4,000,000 in Powell Bill funds, which the state requires the Town to use primarily for resurfacing.

PROJECT JUSTIFICATION:

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 LOCATION:

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

FISCAL YEAR 2017 GENERAL CAPITAL IMPROVEMENTS

FIRE CAPITAL IMPROVEMENTS FUND

A.	1,400,000	Aerial Ladder Truck (New Company Northwestern Area)
B.	650,000	Fire Pumper Replacement
C.	7,150,000	Fire Station #9 (Walnut Street)
D.	<u>210,000</u>	Thermal Imaging Camera Replacement
	<u>9,410,000</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 2017 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 Truck (New Company Northwestern Area)

RESPONSIBLE DEPARTMENT: Fire

PROJECT FUNDING: \$1,400,000

Personnel	\$1,129,094
<u>Operating & Maintenance</u>	<u>28,450</u>
Total	\$1,157,544

PROJECT DESCRIPTION:

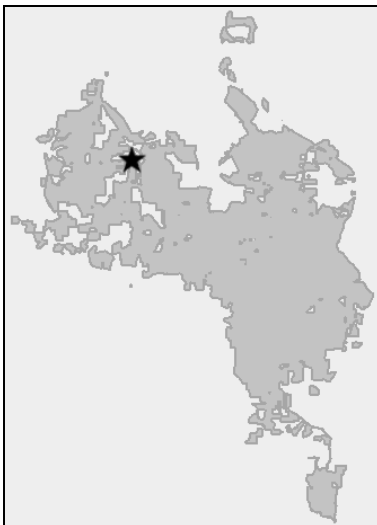
This project provides for the purchase of a new, Class A aerial ladder fire truck equipped with a fire pump, hose, water tank, ground ladders and 100 linear foot hydraulic ladder. Aerial ladder coverage is required to access roofs of large structures, provide elevated large water streams for firefighting operations, and to rescue persons from elevated positions. This vehicle requires a staff of thirteen firefighters at an operational cost of approximately \$1.2 million annually. If this project is approved as part of the FY 2017 Capital Improvements Budget, the \$1.2 million in operating costs would need to be budgeted as part of the FY 2018 operating budget. This apparatus would be stationed at an existing station with direct access to the northwestern portion of Cary.

The \$1,400,000 FY 2017 appropriation fully funds the purchase of the vehicle and its related equipment.

PROJECT JUSTIFICATION:

Fire or emergency activities requiring aerial-ladder responses increased 34% from 2013 to 2015 in northwestern Cary representing the fastest growing call type among all fire department companies. The Town standard for structural fires requiring a ladder truck is that 90 percent of responses must take less than 10 minutes to provide an effective firefighting force. In the northwestern part of Cary, the actual time is 19 minutes. Aerial-ladder service for northwestern Cary is currently provided by companies at Fire Station #5 on High House Road and Fire Station #1 on North Harrison Avenue.

PROJECT LOCATION:



B. FIRE

PROJECT TITLE: Fire Pumper Replacement

RESPONSIBLE DEPARTMENT: Fire

PROJECT FUNDING: \$650,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

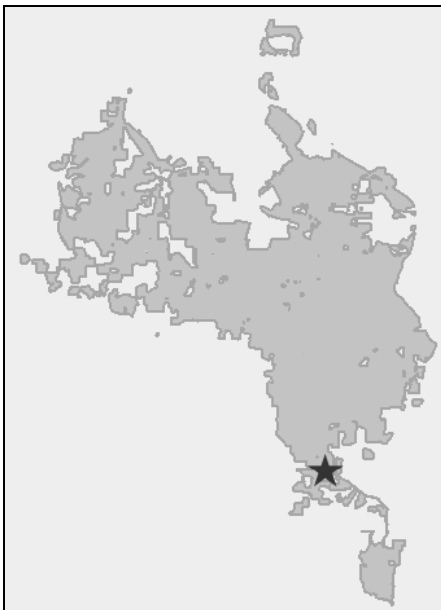
PROJECT DESCRIPTION:

This project provides for the scheduled replacement of pumper truck #1958 which has been in service since 2003 and will be moved to “reserve” status with the purchase of this replacement vehicle. Class A fire engine pumpers are designed to transport five firefighters, equipment, 500 gallons of water and 2,000 feet of fire hose. Pumper trucks have an effective life use expectancy of 15 years. The \$650,000 FY 2017 appropriation fully funds this vehicle replacement. The current plan is for this vehicle to be housed at Station #6; however, once it is received, staff will once again evaluate overall mileage and fleet condition to determine the most appropriate location.

PROJECT JUSTIFICATION:

Based on input from the Town’s Fleet Management division regarding current operating costs, down time, availability of parts and major component failure, the Fire Department has shifted toward replacing these apparatus at 12 years of front line service and moving the replaced apparatus to reserve status for 5 years for a total service life of 17 years. The Fire Department and Fleet Management division manage apparatus in a manner that maintains a ready state, maximizes service life and minimizes major repair issues and their associated costs.

PROJECT LOCATION:



C. FIRE

PROJECT TITLE: Fire Station #9 (Walnut Street)

RESPONSIBLE DEPARTMENT: Fire

PROJECT FUNDING: \$7,150,000

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	--
<u>Operating & Maintenance</u>	<u>\$49,000</u>
Total	\$49,000

PROJECT DESCRIPTION:

This project supports the demolition of the existing structure that the Town purchased located at 1427 Walnut Street and design and construction of a 16,000 square foot, multi-story masonry and steel structure; although, it is possible that a portion of the existing structure may be retained. The 16,000 square feet will include three apparatus bays, training/meeting space and capacity for two fire companies. The fire station will be divided into five functional areas: a public/business area including supervisor offices for operational personnel; a watch room for communications; a kitchen for meal preparation and dining; a private employee area including sleeping rooms, showers and restrooms; and an engine room with heated garage space for apparatus, space for equipment storage and a decontamination room for protective clothing maintenance.

Total project cost is estimated at \$7,900,000. A total of \$750,000 was appropriated in FY 2015 for a structural evaluation of the existing building located on the property as well as design and permitting. The \$7,150,000 FY 2017 appropriation provides for station construction and upfitting. There are no personnel operating costs associated with Fire Station #9 as existing staff currently assigned to the “old” Fire Station #2 located at 875 SE Maynard Road will move to this station. The “old” Fire Station #2 will close once Station #9 is complete and functional. Additional annual operating costs of \$49,000 are estimated for the new Fire Station #9 as it is significantly larger than the station it is replacing.

PROJECT JUSTIFICATION:

Service demands for the area to be served by Station #9 (Incident Management Zones 9A and 9B) have grown at faster rates than any other within the Town. From 2014 to 2015, response activity increased 85% from 351 incidents to 652 incidents with calls for service, EMS and fires representing the largest increase. EMS incidents represent the greatest service demand. Staff estimates that a fire station located at 1427 Walnut Street will improve response times for this area by 2-3 minutes, thereby improving sudden cardiac arrest and trauma patient survivability rates by 20-30%. Staff also estimates that fire loss rates would improve by 12%.

PROJECT LOCATION:



D. FIRE

PROJECT TITLE: Thermal Imaging Camera Replacement

RESPONSIBLE DEPARTMENT: Fire

PROJECT FUNDING: \$210,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the scheduled replacement of the 23 thermal imaging cameras currently in use within the Town's Fire Department. These cameras were originally purchased in 2007 and have been routinely used since their purchase. At a cost of approximately \$9,125 each, the \$210,000 appropriated in FY 2017 fully funds replacement of all 23 thermal imaging cameras.

PROJECT JUSTIFICATION:

Thermal imaging cameras are used to identify smoldering fires, detect overheating electrical wiring and aid in search and rescue efforts to find victims disoriented in a structure fire. These cameras can also be used in hazardous materials situations to see stored or escaping product. The Town's existing cameras have been subjected to rough duty in and out of the hazardous environment and are expensive to repair as they are no longer under warranty.

PROJECT LOCATION:

The thermal imaging cameras purchased through this project will be utilized at various locations throughout the Town as the need arises.

FISCAL YEAR 2017 GENERAL CAPITAL IMPROVEMENTS

PARKS, RECREATION AND CULTURAL RESOURCES CAPITAL IMPROVEMENTS FUND

A.	72,000	Athletic Field Fencing Amenities Replacement
B.	96,000	Athletic Field Fencing Repair/Replacement
C.	75,000	Black Creek Greenway Renovations - Phases I, II & V
D.	450,000	Brooks Park Outfield Drainage Project
E.	275,000	Cary Tennis Park Court Renovations
F.	1,486,371	Cary Tennis Park - Interlocal
G.	100,000	DT - Downtown Park Future Phases Master Plan
H.	262,000	Greenway Resurfacing Projects
I.	130,000	Kids Together Playground - Misting Garden
J.	300,000	MacDonald Woods Park Restroom
K.	50,000	Mills Park Community Center Planning Funding
L.	100,000	Morris Branch (P-006) Neighborhood Park
M.	45,000	Park and Greenway Facility Sign Plan Implementation
N.	125,000	Park and Greenway Renovations
O.	83,000	Playground Surface Repairs/Replacement
P.	60,000	Public Art - Carpenter Park
Q.	40,000	Public Art- Kids Together Playground - Misting Garden
R.	330,000	Recreational Facility Improvements
S.	90,000	Recreational Facility Sound System Replacements
T.	60,000	Tennis Court Fencing Repair/Replacement
U.	160,000	Tennis Court Renovations
V.	4,925,000	USA Baseball National Training Facility Improvements - Interlocal
W.	50,000	Western Cary Disc Golf
X.	<u>4,000,000</u>	White Oak Creek Greenway - All Remaining Segments
	<u>13,364,371</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 2017 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
(Windscreen, Safety Cap, Padding and Netting)

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$72,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the phased replacement of athletic field fencing amenities such as windscreens, safety caps, padding and netting on a scheduled basis (typically a four year interval).

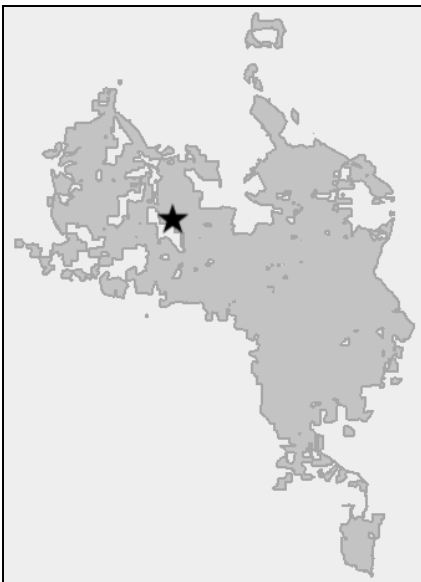
The \$72,000 appropriated in FY 2017 supports the following replacements:

Cary Tennis Park Courts 1-30 windscreens

PROJECT JUSTIFICATION:

Prior to replacement, an assessment is made of the structural integrity of the materials to determine options for repair, partial replacement or full replacement. If an item 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:



B. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Athletic Field Fencing Repair/Replacement

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$96,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

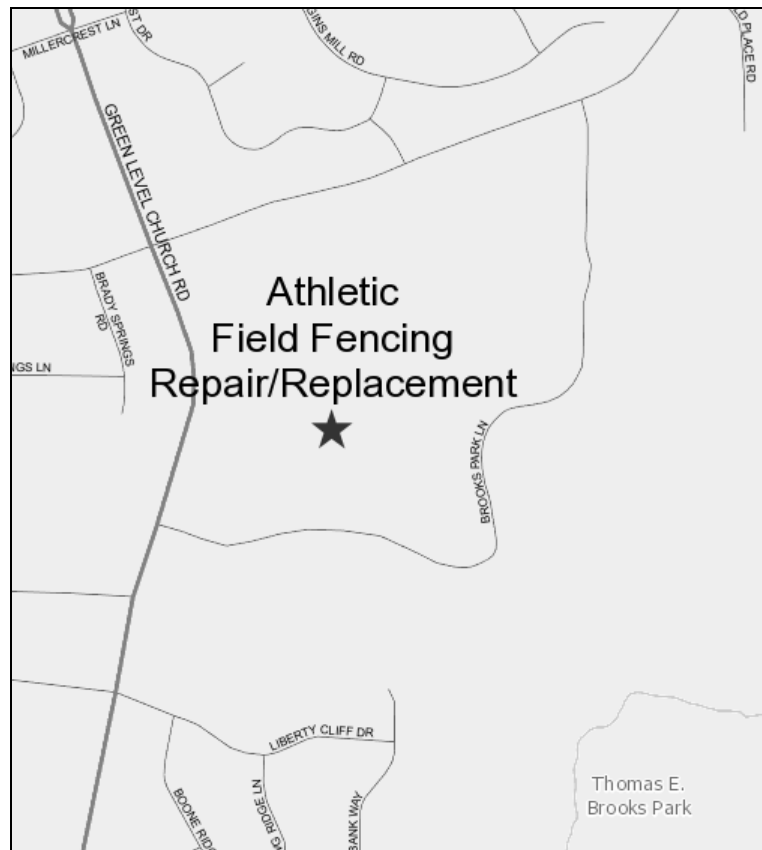
PROJECT DESCRIPTION:

This project provides for the phased replacement of the Town's athletic field fencing on a scheduled basis (typically a ten year interval). The \$96,000 appropriated in FY 2017 supports athletic field fencing repair/replacement on softball fields 1-4 and a basketball court at Thomas Brooks Park.

PROJECT JUSTIFICATION:

Staff conducts condition assessments prior to replacing fencing to determine if all or a portion of the existing fence can remain in service for another year. Fence material is very light gauge and is considered for replacement when it has stretched to the point where curling cannot be controlled.

PROJECT LOCATION:



C. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Black Creek Greenway Renovations – Phases I, II and V

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$75,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

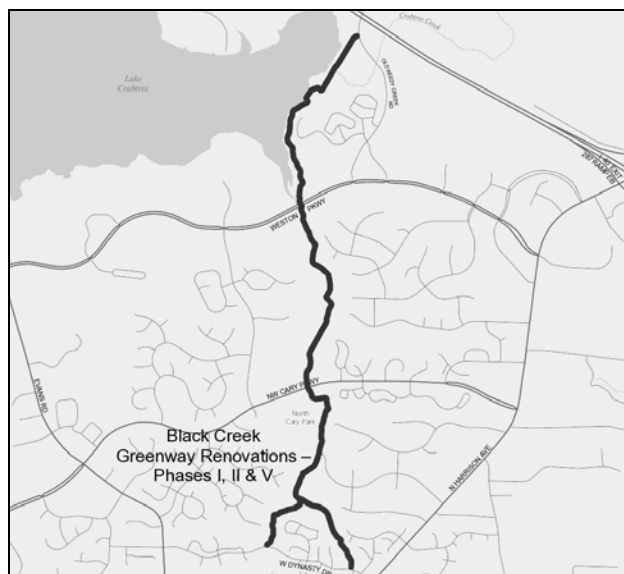
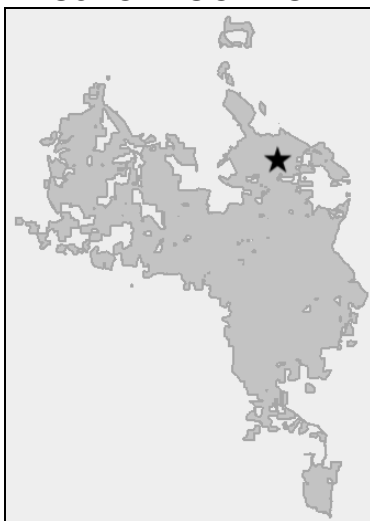
Appropriations to date to this project total \$300,000 and support design of the Phases I and II Black Creek Greenway realignment. The FY 2017 appropriation adds \$75,000 to include design of Phase V of the Black Creek Greenway as well. Total project cost (including design and construction of all three phases) is \$4,025,000, which includes a \$1,650,000 FY 2018 funding need for Phases I and II construction, and a \$2,000,000 FY 2021 funding need for Phase V construction.

The Phases I and II portions of this project focus on the renovation of approximately 2.5 miles of the Black Creek Greenway running between Lake Crabtree County Park and West Dynasty Drive. The Phase V portion of the project would develop the Black Creek Greenway into a continuous greenway without the need to utilize the steep sidewalks adjacent to West Dynasty Drive. This section of greenway trail would be approximately 1,300 linear feet and include 4 pedestrian bridges and a large retaining wall to meet grade at West Dynasty Drive.

PROJECT JUSTIFICATION:

The Black Creek Greenway is the most popular, and primary, trail of Cary's greenway system. It is approximately seven miles in length and connects Lake Crabtree County Park to Bond Park, the hub of Cary's greenway system. Phases I and II are currently in need of realignment due to the effects of flooding. The Phase V segment of the project will eliminate an extremely steep 0.4 mile sidewalk connection between Phases II & III of the existing trail. The construction of Phase V will make the Black Creek Greenway more accessible and enjoyable to a wider segment of the population by providing a continuous greenway trail that maintains a manageable slope for bicyclists and the general population.

PROJECT LOCATION:



D. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Brooks Park Outfield Drainage Project

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$450,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

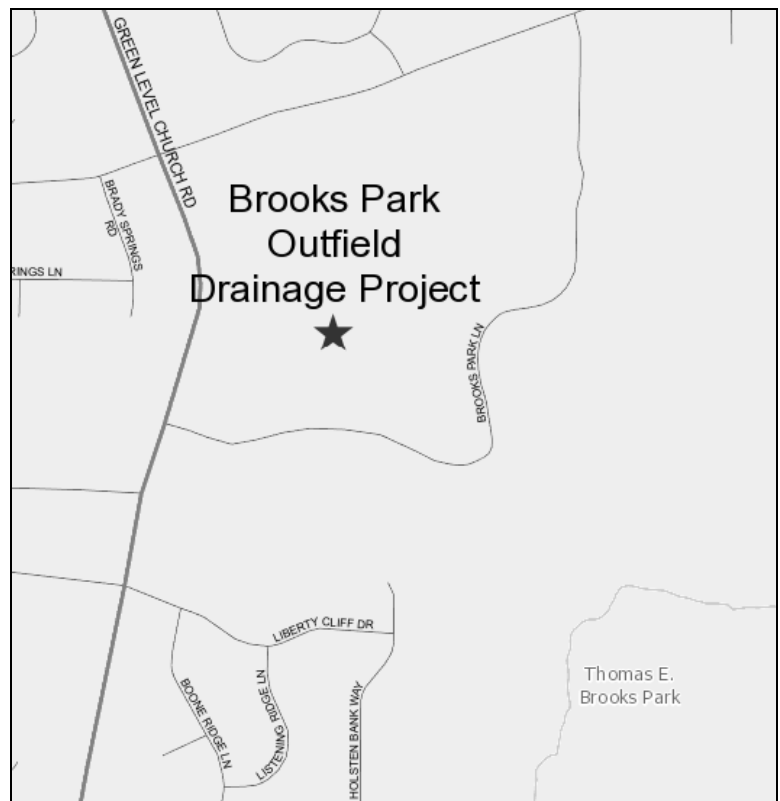
PROJECT DESCRIPTION:

This project provides for the addition of a drainage system to increase the usability of the four Brooks Park recreational-play softball fields. While design of this drainage solution has not yet begun, staff anticipates that a main drainage line will be added in conjunction with a few lateral underdrains. A system of this nature would serve to pick up some of the water that currently stands on the fields after rain events. The \$450,000 FY 2017 appropriation supports design and construction of this drainage system.

PROJECT JUSTIFICATION:

The four fields at Thomas Brooks Park have outfield drainage issues preventing timely drying and safe play after a storm. As a result, the PRCR department routinely runs into programming and scheduling problems after heavy rain events. Other Town recreational softball fields dry much more quickly. This project would bring the Brooks park recreational softball fields in line with other, similar Town fields. The drainage system will also help prevent further deterioration of the loop trail surrounding the fields.

PROJECT LOCATION:



E. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Cary Tennis Park Court Renovations

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$275,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

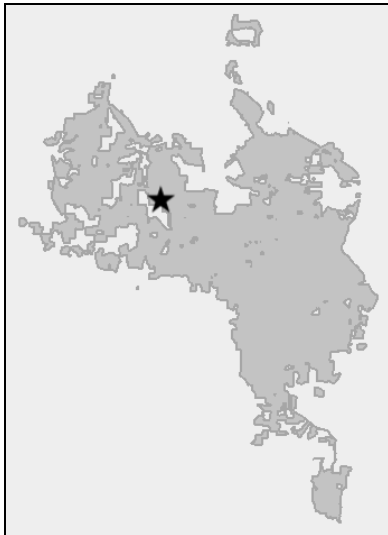
This project provides for renovation (including subsurface improvements and resurfacing) of the thirty courts located at the Cary Tennis Park. Condition assessments have been conducted both by the United States Tennis Association (USTA) and an outside contractor to determine the most appropriate method of repair/renovation for each court.

Total project cost is estimated at \$3,135,000, of which \$925,000 has been appropriated through FY 2016 for the renovation of courts 3 - 10. This work was completed in fall 2015, and these renovated courts are open for play. The \$275,000 FY 2017 appropriation provides for lighting and scoreboard improvements needed for the courts where professional tennis court matches are played. An additional \$1,935,000 funding need (\$450,000 in FY 2018 and \$1,485,000 in FY 2021) supports construction funding for six additional courts at this facility. The remaining 12 courts at the facility would also benefit from renovation but are currently categorized as Not Programmed/Not Planned projects due to their significant additional cost. Renovating these remaining courts would require \$1,500,000 in FY 2018 for six courts and \$1,500,000 in FY 2021 for the final six courts.

PROJECT JUSTIFICATION:

The addition of court lighting and scoreboard improvements will greatly enhance the facility's ability to address amenity requirements for professional and tournament play.

PROJECT LOCATION:



F. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Cary Tennis Park - Interlocal

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$1,486,371

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	\$53,978
<u>Operating & Maintenance</u>	<u>\$109,592</u>
Total	\$163,570

PROJECT DESCRIPTION:

This project provides for the design and construction of improvements at the Cary Tennis Park that are supported, in part, by interlocal funding provided by Wake County. These improvements include: the addition of seven covered tennis courts, the purchase and installation of LED court lighting inside the covered facility, the installation of two bathrooms and the installation of gas piping from the gas meter to the building.

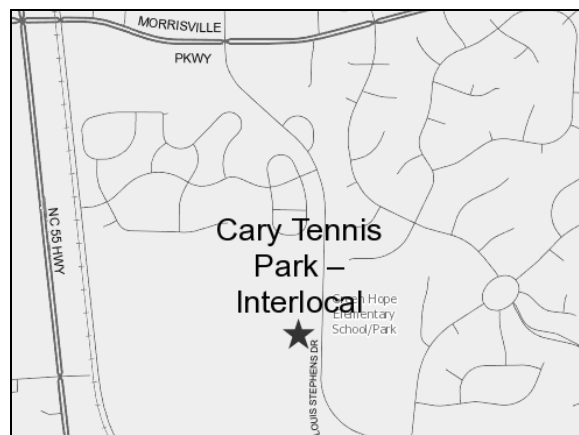
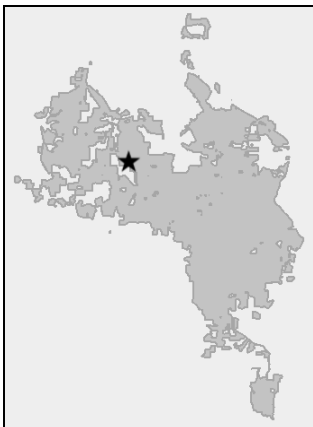
Total project cost is estimated at \$6,508,000. A total of \$5,021,629 has been appropriated to this project through FY 2015. The \$1,486,371 FY 2017 appropriation provides the remaining funding needed for project completion.

PROJECT JUSTIFICATION:

The number of visits to the Cary Tennis Park (CTP) increased from 15,000 visitors in FY 2004 to 240,000 in FY 2015. These visits are driven in part by the more than 400 adult league teams playing at the CTP along with the facility's Academy elite training program which has over 100 participants. In addition to these groups, the venue hosts regional state and national tournaments which can involve up to 600 competitors and teams from across the country.

Inclement weather makes supporting regular and tournament play at the facility extremely difficult as games cannot continue in adverse conditions. Covered courts will allow play to proceed during rain events and help the facility maintain its schedule.

PROJECT LOCATION:



G. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: DT – Downtown Park – Future Phases Master Plan

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$100,000

FIRST YEAR ESTIMATED OPERATING COSTS: None associated with development of a master plan

PROJECT DESCRIPTION:

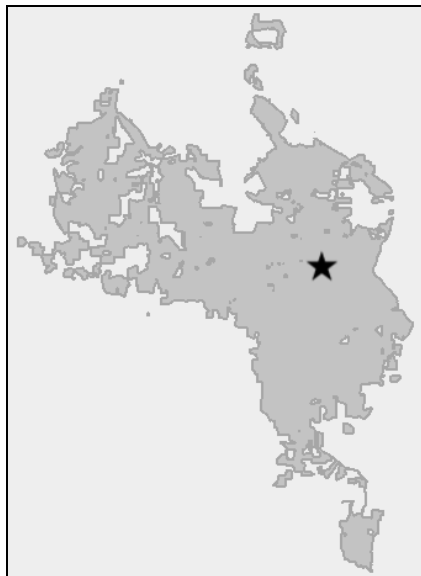
This project provides funds for the development of a master plan for the 5.8 acres of the Downtown Park site known as the Lower Green. Planning and programming of the Lower Green was considered a future year opportunity when the rest of the park site was planned in 2013. As was the case with the 2013 planning process, a consulting team will lead the Lower Green planning efforts in conjunction with staff participation and public input.

The \$100,000 FY 2017 appropriation fully funds the Lower Green master planning process. Future year funding requests will be made for design and construction once a programming scope has been selected.

PROJECT JUSTIFICATION:

The Lower Green master planning process will provide programming and cost options for the development of the remaining Downtown Park land. Completing this process allows a programming scope to be selected and the development plan to be determined.

PROJECT LOCATION:



H. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Greenway Resurfacing Projects

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$262,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This annual 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 scheduled park renovations into account. The \$262,000 FY 2017 appropriation funds repair and restoration of the following greenways:

Batchelor Branch and Green Hope School Greenway

\$100,000 Asphalt Repair - Crack Seal - Seal Coat

White Oak Creek Greenway (Parkscene Lane west to Green Level Church Road)

\$70,000 - Asphalt Repair - Crack Seal - Seal Coat

Symphony Lake Greenway

\$35,000 - Asphalt Repair - Crack Seal - Seal Coat - Safety Railing

American Tobacco Trail (ATT)

\$27,000 Crack Seal

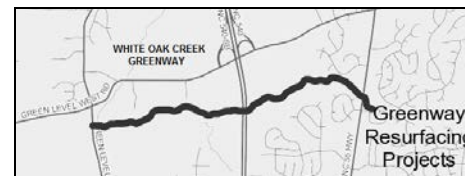
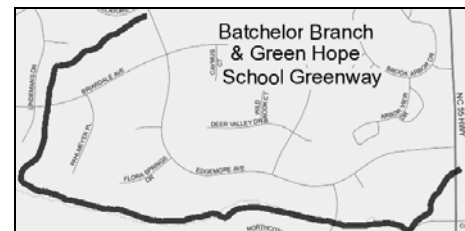
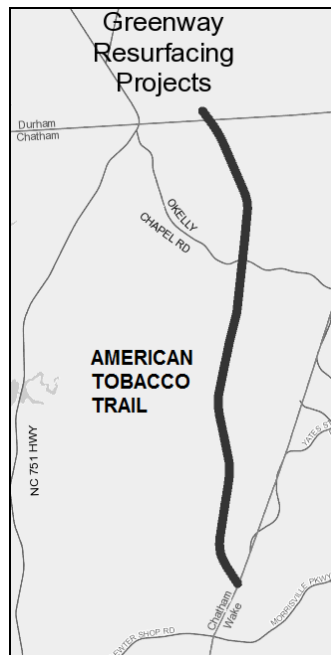
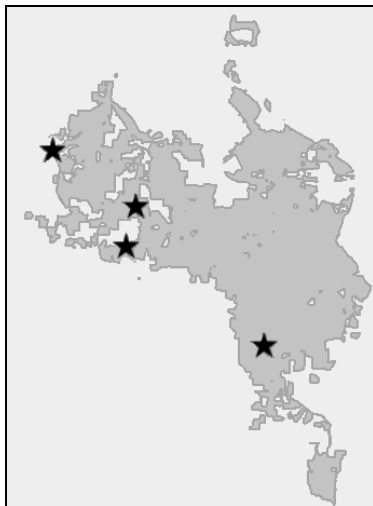
Miscellaneous greenway structure repair based on 2015 Pedestrian Structures Inspection Report

\$30,000

PROJECT JUSTIFICATION:

Greenway trails most frequently experience asphalt failure as a result 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:



I. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Kids Together Playground – Misting Garden

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$130,000

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	-
Operating & Maintenance	\$5,000
Total	\$5,000

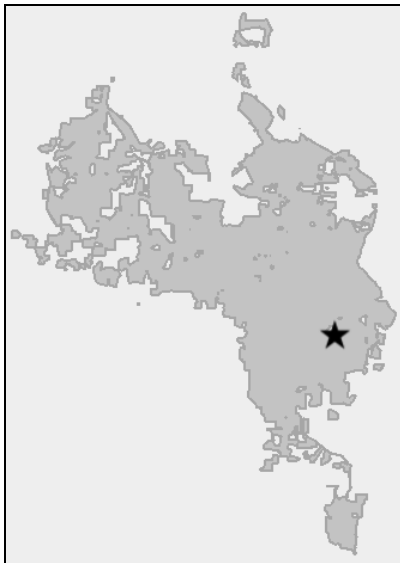
PROJECT DESCRIPTION:

This project provides for the design, fabrication and installation of a water feature, known as a misting garden, at the Kids Together Playground at Marla Dorrel Park. The Misting Garden will provide safe, inviting water play that can be enjoyed by children of all abilities during warm weather. During colder months it will serve as an engaging space for resting, meeting and exploring. The concept plan calls for three arched misting stations, each with four spray misters, installed over safety surfacing and situated in a garden setting, surrounded by boulders for climbing and seating, along with comfortable benches. The \$130,000 appropriated in FY 2017 fully funds this project. The Friends of Kids Together Playground organization is contributing \$40,000 of this appropriation with the Town of Cary providing the remaining \$90,000.

PROJECT JUSTIFICATION:

A water feature for play was called for in the Kids Together Park’s original future development plan. The Kids Together board funded a conceptual design for this feature in 2012 and has raised the funds it is contributing for construction.

PROJECT LOCATION:



J. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: MacDonald Woods Park Restroom

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$300,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

Personnel	-
Operating & Maintenance	\$6,500
<hr/> Total	<hr/> \$6,500

PROJECT DESCRIPTION:

This project provides for design and construction of a one-stall, all gender/family restroom facility at MacDonald Woods Park. Due to space limitations at the park, the facility will be approximately 12 square feet in size. It will include a sink for washing hands and will be ADA compliant. A water fountain will not be included in the facility as one currently exists at the park. A retaining wall and landscaping screen will likely be constructed.

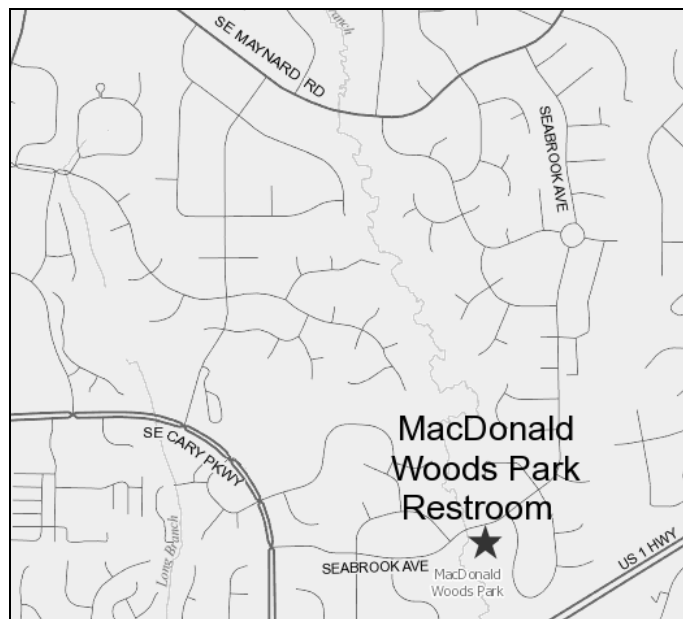
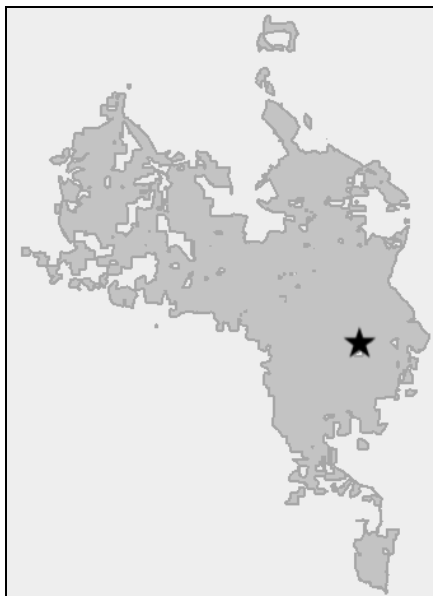
MacDonald Woods Park is a neighborhood park with a playground, basketball court, open field and direct access to the Hinshaw Greenway. It is located on Seabrook Avenue between Cary Parkway and Maynard Road.

Total project cost is estimated at \$300,000. The FY 2017 appropriation fully funds this project.

PROJECT JUSTIFICATION:

The playground at MacDonald Woods Park is very popular with parents of young children as the playground is covered by a large amount of natural shade. A restroom was not installed when the park was originally constructed as the majority of the park is located within the floodplain. A recent staff review of the park site identified one location adjacent to Seabrook Avenue that could support an accessory structure (restroom facility) of up to 150 square feet and meet floodplain requirements.

PROJECT LOCATION:



K. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Mills Park Community Center Planning Funding

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$50,000

FIRST YEAR ESTIMATED OPERATING COSTS: None associated with development of a concept plan

PROJECT DESCRIPTION:

This project provides for a consultant to be hired to develop a concept plan for the future Mills Park Community Center. The \$50,000 appropriated in FY 2017 fully funds this stage of development. Once the concept for the community center has been determined, staff will refine future year funding requests for design and construction funding in FY 2019 and FY 2020.

PROJECT JUSTIFICATION:

It is the Town's intent to construct a new community center at Mills Park to serve western Cary residents. Currently, the closest community center to residents in this area is the Bond Park Community Center located at 801 High House Road. The construction of a community center at this location was determined to be of high priority to Town Council during the October 2015 budget priorities worksession.

PROJECT LOCATION:



L. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Morris Branch (P-006) Neighborhood Park

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$100,000

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	\$20,000
Operating & Maintenance	\$60,000
Total	\$80,000

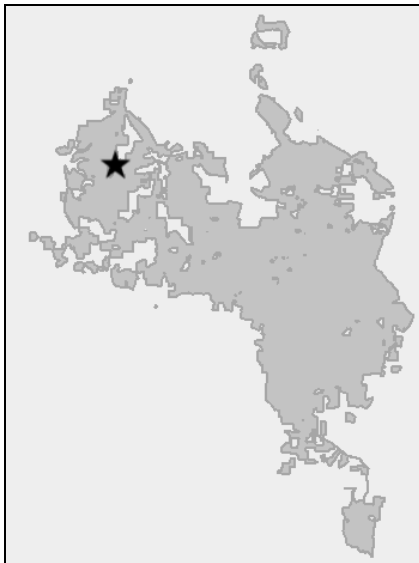
PROJECT DESCRIPTION:

This project provides for design and construction of a new neighborhood park (P-006) located at Green Level Church Road and McCrimmon Parkway. The Morris Branch Greenway will cross the property allowing the site to function as a trailhead. Total project cost is estimated at \$4,600,000. The \$100,000 FY 2017 appropriation is directed toward completion of a master plan. An additional \$500,000 will be needed in FY 2018 for design, as well as another \$4,000,000 in FY 2020 for construction.

PROJECT JUSTIFICATION:

The proposed site for this future neighborhood park is located in the northwestern area of Cary which has experienced significant growth in the past decade. There are no neighborhood parks within two miles of the site. Currently the Town does not meet level-of-service goals for parks per 1,000 residents in northwestern Cary.

PROJECT LOCATION:



M. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Park and Greenway Facility Sign Plan Implementation

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$45,000

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	-
Operating & Maintenance	\$1,000
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Total	\$1,000

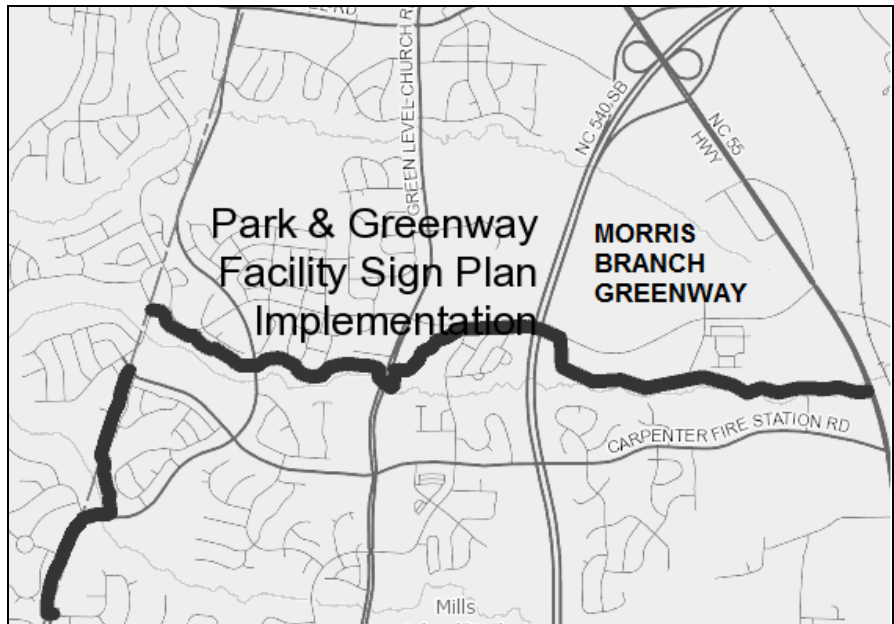
PROJECT DESCRIPTION:

This project provides for the installation of a unified signage system identifying each of the Town’s parks, greenways and cultural and recreational facilities. Greenway signage will include mileage signs and identifiable markings for emergency service access. Total project cost is estimated at \$520,000, of which \$325,000 has been appropriated through FY 2016. The \$45,000 appropriated in FY 2017 provides for the installation of greenway signs on the Morris Branch greenway, interpretative signs at locations yet to be determined and playground safety signage at the Town’s playgrounds. Future year funding totaling \$150,000 over fiscal years 2018 – 2024 will support additional installation of directional, programming, accessibility, trail marking, mileage and interpretive signage within the Town’s parks and greenways.

PROJECT JUSTIFICATION:

The primary purpose of the Park, Greenway and Facility Sign Plan Implementation project is to replace existing, aging park system signs with a unified, consistent system of signs for all of the Town’s parks, greenways and special use facilities. The new signage will address identification and emergency services needs while providing location, accessibility, user regulations, and educational information to park and greenway system patrons.

PROJECT LOCATION:



N. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Park and Greenway Renovations

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$125,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

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 \$125,000 appropriated in FY 2017 supports the following park, greenway and/or related facility renovations:

Bond Park Community Center - \$82,000

Kitchenette and exercise floor replacements, installation of office dividers

Middle Creek Community Center - \$10,000

Installation of an ADA accessible customer service desk area

Herbert Young Community Center \$12,000

Installation of an ADA accessible customer service desk area to accommodate full and part-time staff

Cary Senior Center - \$10,000

Installation of an ADA accessible customer service desk area

Planting of Landscaping/Shade Trees in Parks/Playgrounds – \$11,000

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:



O. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Playground Surface Repairs/Replacement

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$83,000

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

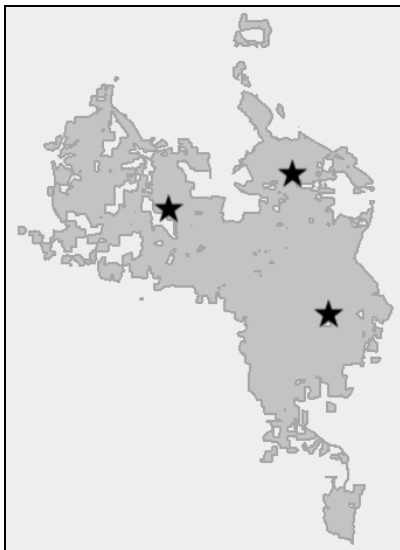
The \$83,000 appropriated in FY 2017 supports playground surface repairs/replacement at:

- North Cary Park
- Green Hope Elementary School Park
- MacDonald Woods Park

PROJECT JUSTIFICATION:

Specific playgrounds are selected for surface repairs/replacement based on a priority ranking system. Each facility is evaluated as it comes up on the scheduled rotation, and repair/replacement is pursued if this assessment verifies that the timing is appropriate based on the facility's current state.

PROJECT LOCATION:



P. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Public Art – Carpenter Park

RESPONSIBLE DEPARTMENT: Parks, Recreation and Cultural Resources

PROJECT FUNDING: \$60,000

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	-
Operating & Maintenance	\$1,500
Total	\$1,500

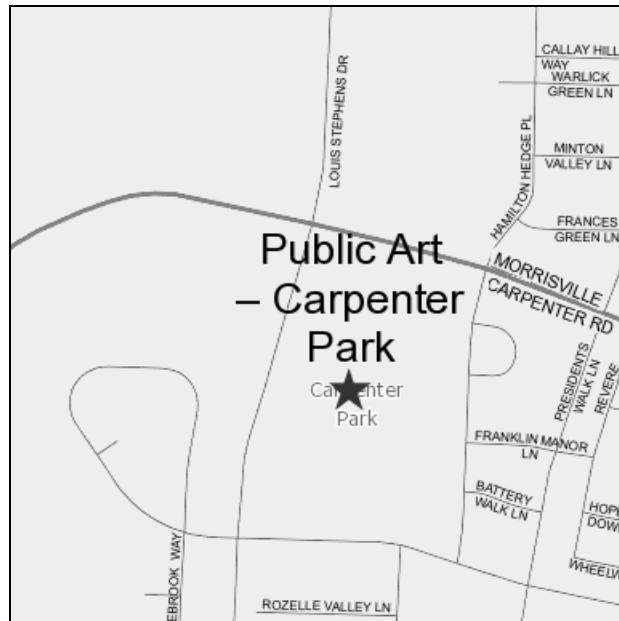
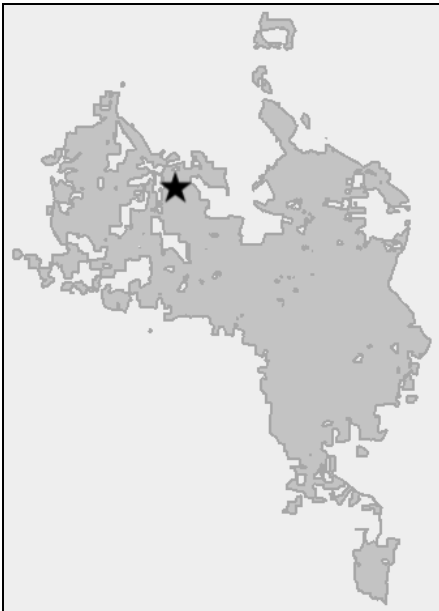
PROJECT DESCRIPTION:

This project provides for the fabrication and installation of three integrated artwork swan benches and a community garden bean stalk gate entry feature for Carpenter Park. The \$60,000 FY 2017 appropriation is supported by \$30,000 of Town funding, as well as a \$30,000 contribution from Cary Visual Art.

PROJECT JUSTIFICATION:

Artist Christine Bourdette was a member of the design team that originally master planned the designed Carpenter Park. Her participation and designs provided three unique and iconic swan/water fowl benches for the open areas surrounding the restored pond which will give the park its most memorable and distinguishable feature. Sculptural, large metal totems of peapods and vines will greet visitors at the entry into the community garden area. Public art contributes to making parks unique and memorable places. Examples within the Town's system that have signature artworks and integrated public art include Walnut Street Park, Kids Together Playground at the Marla Dorrel Park, Sears Farm Road Park, WakeMed Soccer Park, Fred G. Bond Metro Park, and Koka Booth Amphitheatre.

PROJECT LOCATION:



Q. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Public Art – Kids Together Park – Misting Garden

RESPONSIBLE DEPARTMENT: Parks, Recreation and Cultural Resources

PROJECT FUNDING: \$40,000

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	-
Operating & Maintenance	\$500
Total	\$500

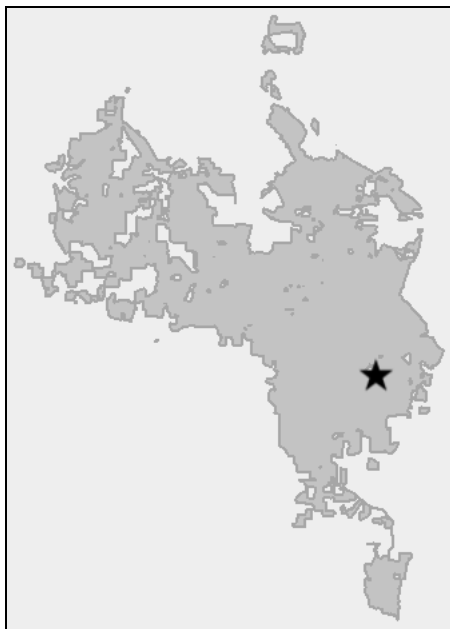
PROJECT DESCRIPTION:

The \$40,000 FY 2017 appropriation fully supports design, fabrication and installation of integrated artwork for the Misting Garden at Marla Dorrel Park. Integrated artworks will be designed for the misting garden area to serve as functional seating and landscaping. An artist will be included in the design phase of the misting garden itself to allow for best integration into the site and efficiencies of costs.

PROJECT JUSTIFICATION:

Public Art contributes to making parks unique and memorable places. Examples within the Town’s system that have signature artworks and integrated public art include Walnut Street Park, Kids Together Playground at the Marla Dorrel Park, Sears Farm Road Park, WakeMed Soccer Park, Fred G. Bond Metro Park, and Koka Booth Amphitheatre.

PROJECT LOCATION:



R. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Recreational Facility Improvements

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$330,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the implementation of improvements at existing recreational facilities. The \$330,000 appropriated in FY 2017 supports the following recreational facility improvements:

Bond Park Community Center - \$30,000

Installation of new, exterior storage facility

Bond Park Community Center Boathouse - \$25,000

Installation of a removable wall system allowing operations in off season (cooler) months

Carpenter Park Community Garden Shelter - \$35,000

Addition of a storage shed/shelter for equipment storage and shade/storm protection

USA Baseball National Training Facility - \$180,000

Relocation of ice machine outside and installation of new sidewalk to access ice machine;
Installation of new roof and lighting over existing batting cages

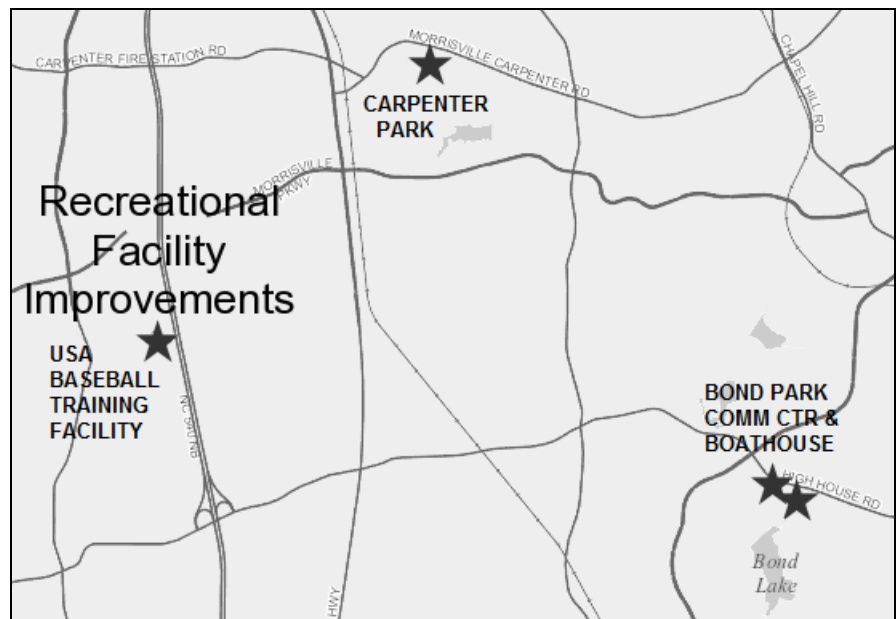
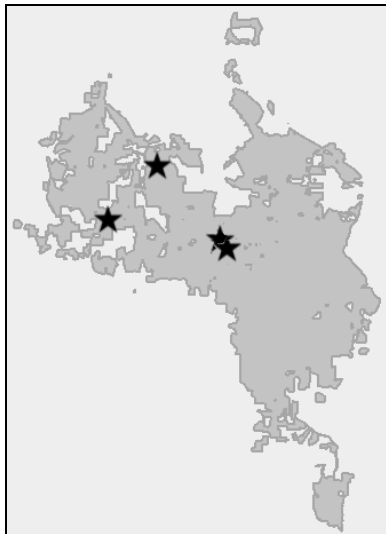
Various Town Baseball Fields – \$60,000

Addition of bullpens/batting cages at various existing fields

PROJECT JUSTIFICATION:

These improvements are not considered to be routine maintenance or repairs. These projects are new additions that will improve the facilities in some manner.

PROJECT LOCATION:



S. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Recreational Facility Sound System Replacements

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$90,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

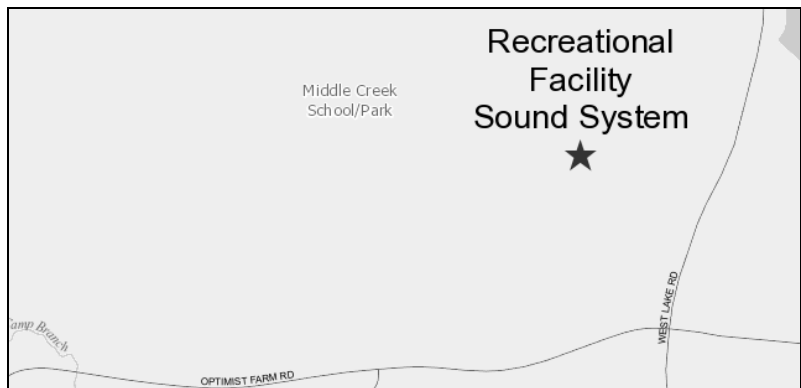
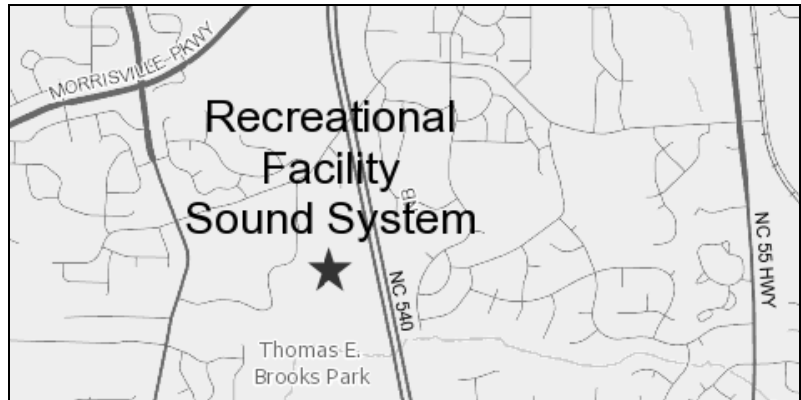
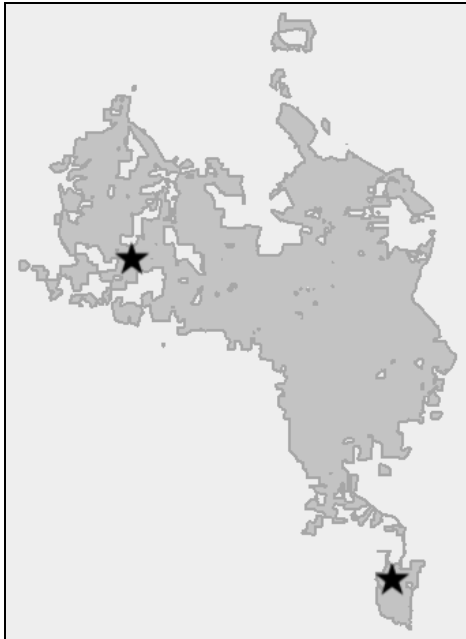
PROJECT DESCRIPTION:

This project provides for the replacement of the sound systems at the USA Baseball National Training Facility and the Middle Creek softball tower. The \$90,000 FY 2017 appropriation fully funds these replacements.

PROJECT JUSTIFICATION:

The existing systems at each of these facilities experience significant sound quality issues and equipment failures. Additionally, each system is built with components that are no longer supported and/or are not compatible with newer technology devices that tournament directors are accustomed to using. Sound systems are integral to tournament and recreational league play as a source of information sharing and entertainment.

PROJECT LOCATION:



T. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Tennis Court Fencing Repair/Replacement

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$60,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

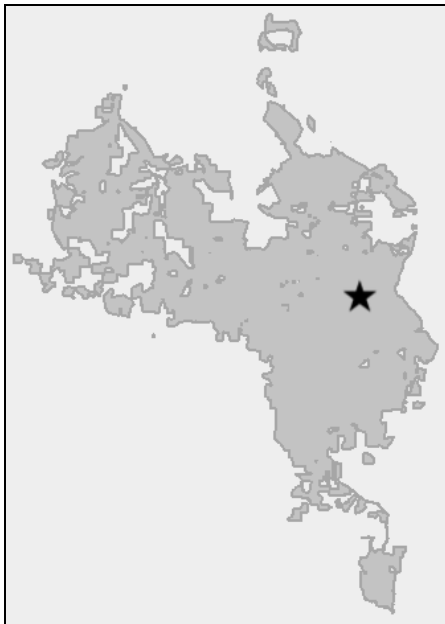
PROJECT DESCRIPTION:

This maintenance project provides for the phased repair/replacement of the Town's tennis court fencing on a scheduled basis. The \$60,000 FY 2017 appropriation supports tennis court fencing repair/replacement on the Dunham Park courts.

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:



U. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Tennis Court Renovations

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$160,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

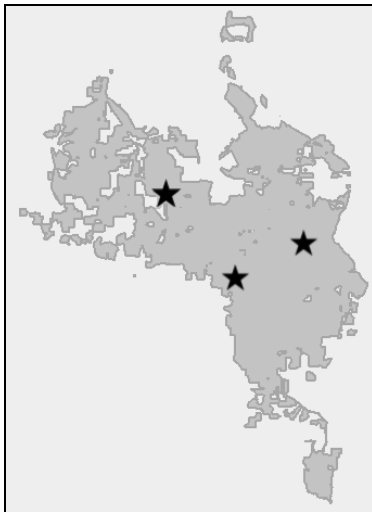
This maintenance project provides for tennis court renovations within the Town's park system. The \$160,000 appropriated in FY 2017 supports the following court renovations:

- Cary Tennis Park – 7 courts
- Dunham Park
- Annie Jones Park

PROJECT JUSTIFICATION:

Courts are selected for renovation based on a priority ranking system. The Town's tennis courts are evaluated as they come up on the scheduled rotation, and renovation is pursued if this assessment verifies that the timing is appropriate based on the court's current state.

PROJECT LOCATION:



V. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: USA Baseball National Training Facility Improvements - Interlocal

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$4,925,000

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	-
Operating & Maintenance	\$33,075
Total	\$33,075

PROJECT DESCRIPTION:

This project is based upon a partnership between the Town of Cary and the USA Baseball organization to provide improvements such as the design and construction of a clubhouse facility with two locker rooms and the addition of office space.

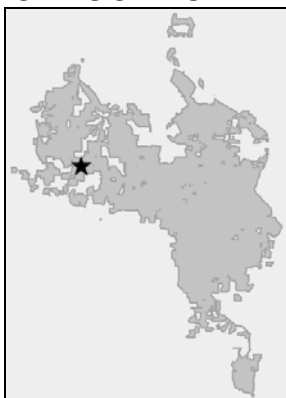
The total cost for this work is estimated at \$6,455,000. The Town of Cary is responsible for 50% of the project's cost, while the remaining 50% will be addressed by the USA Baseball organization. The Town's portion (\$3,227,500) will be funded with occupancy and prepared food and beverage tax funds received from the Greater Raleigh Convention and Visitors Bureau and Wake County. The \$1,530,000 appropriated to date provides for the development of a concept plan and initial design funding. The \$4,925,000 FY 2017 Town of Cary appropriation addresses construction. Of this amount, \$1,727,500 is supported by future, committed occupancy and food and beverage tax funds. The remaining \$3,197,500 is funded with general fund transfer dollars. No funds have been provided by the USA Baseball organization to date as the Town and the organization are reviewing financing options for USA Baseball's portion of the \$6,455,000. These financing decisions should be finalized in FY 2017 and will be brought to the Cary Town Council for consideration mid-year.

PROJECT JUSTIFICATION:

In 2007, the Town of Cary completed construction of the 20-acre USA Baseball National Training Facility. This facility is located within the 221 acre Thomas Brooks Park in western Cary. The USA Baseball National Training Facility consists of four lighted baseball fields – a stadium field (Coleman Field) and three training fields – all with dimensions of 330 feet down the lines and 400 feet in centerfield. All fields are maintained at Major League Baseball standards.

The Town of Cary has successfully hosted a number of National Collegiate Athletic Association (NCAA) baseball tournaments at the USA Baseball National Training Facility. The addition of a clubhouse and additional office space will help Cary in its efforts to host major college events at the complex and establish the facility as a premier training site for baseball.

PROJECT LOCATION:



W. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Western Cary Disc Golf Course

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$50,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

Personnel	-
Operating & Maintenance	\$43,500
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Total	\$43,500

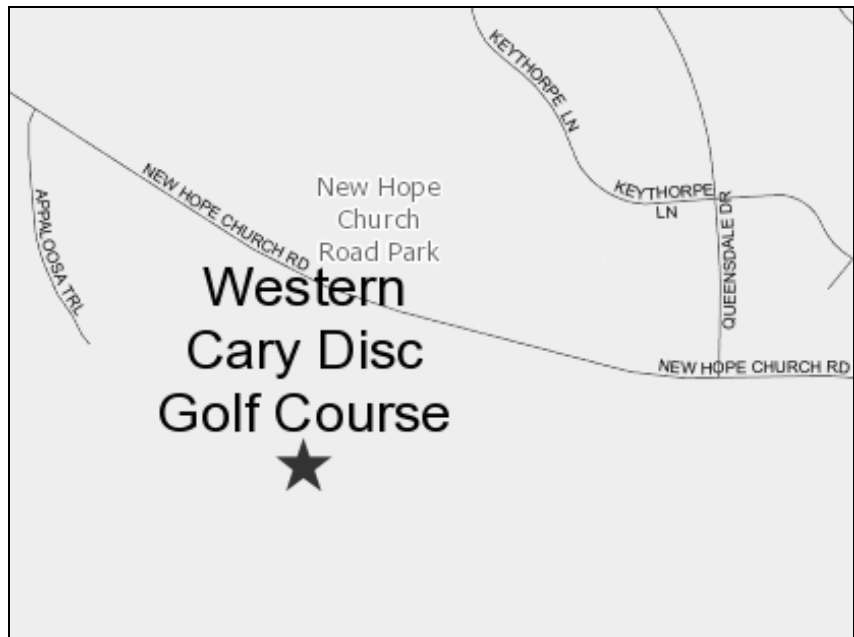
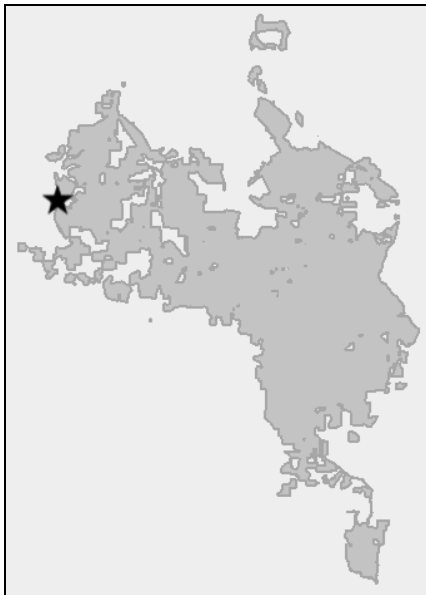
PROJECT DESCRIPTION:

This project provides for the construction of an 18-hole disc golf course in western Cary. The \$50,000 FY 2017 appropriation fully funds construction of this project and includes the installation of tees, baskets and ADA parking access.

PROJECT JUSTIFICATION:

The Town of Cary currently has one disc golf course located at Middle Creek Park in southern Cary. Town staff initially recommended that a second course be included as part of the development of Mills Park in western Cary. It was later determined that the presence of wetlands and stream buffers at Mills Park made it an unsuitable location for a disc golf course. The future P-005 park site near Weldon Ridge is appropriate for this use and is also located in western Cary. Staff estimates that this course will be open for play during FY 2017.

PROJECT LOCATION:



X. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: White Oak Creek Greenway – MacArthur Section

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$4,000,000

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	-
Operating & Maintenance	\$4,000
Total	\$4,000

PROJECT DESCRIPTION:

This project provides for the site acquisition, design and construction of the two missing segments (Green Level Church Road to the American Tobacco Trail and MacArthur Drive to Davis Drive) of the White Oak Creek Greenway.

Total project cost is estimated at \$10,305,462. A portion of the \$6,305,402 appropriated to date is directed toward design for both segments, with the remainder supporting easement acquisition and construction for the Green Level Church Road to American Tobacco Trail segment. The \$4,000,000 FY 2017 appropriation will support easement acquisition, remaining design and construction of the MacArthur Drive to Davis Drive segment.

Green Level Church Road to American Tobacco Trail Segment

This segment includes trail construction from Green Level Church Road to the American Tobacco Trail (ATT), a distance of approximately two miles. The White Oak Creek Greenway presently ends on the east side of Green Level Church Road.

MacArthur Drive to Davis Drive Segment

Currently, there is a gap in the White Oak Creek Greenway between MacArthur Drive and Davis Drive. This segment of trail will extend approximately 0.4 miles, filling that gap.

PROJECT JUSTIFICATION:

Once these connections are complete, the 7.3-mile White Oak Creek Greenway will connect Bond Park to the American Tobacco Trail.

PROJECT LOCATION:



FISCAL YEAR 2017 GENERAL CAPITAL IMPROVEMENTS

GENERAL GOVERNMENT CAPITAL IMPROVEMENTS FUND

A.	75,000	AH - Downtown Rehab and Façade Improvement Program
B.	25,000	AH - Minimum Housing Demolition
C.	150,000	AH - Owner Occupied Housing Rehabilitation Program
D.	575,000	Application Software Replacement
E.	197,000	Cary TV 11 Equipment Replacement
F.	2,200,000	Evidence Room Expansion or Relocation
G.	300,000	Heavy Equipment Replacement Project
H.	400,000	Roof Assessment and Rehabilitation Program
I.	900,000	Sanitation and Recycling Truck Replacement
J.	<u>30,000</u>	Upgrade Pedestrian Crossings - Relocation of Push Buttons
	<u>4,852,000</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 2017 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: Affordable Housing – Downtown Rehabilitation and Façade Improvement Program

RESPONSIBLE DEPARTMENT: Planning

PROJECT FUNDING: \$75,000

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.

B. 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:

In the course of 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 take action 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.

C. GENERAL GOVERNMENT

PROJECT TITLE: Affordable Housing – Owner-Occupied Housing Rehabilitation Program

RESPONSIBLE DEPARTMENT: Planning

PROJECT FUNDING: \$150,000

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.

D. GENERAL GOVERNMENT

PROJECT TITLE: Application Software Replacement

RESPONSIBLE DEPARTMENT: Technology Services

PROJECT FUNDING: \$575,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for replacement of the Town's major software platforms on a periodic basis. The \$575,000 FY 2017 appropriation funds replacement of the Parks, Recreation and Cultural Resources management software, CLASS, and the FASTER fleet management program.

PROJECT JUSTIFICATION:

All software platforms are evaluated annually to assess their efficiency, effectiveness and ability to continue meeting the Town's needs.

PROJECT LOCATION:

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

E. GENERAL GOVERNMENT

PROJECT TITLE: Cary TV11 Equipment Replacement

RESPONSIBLE DEPARTMENT: Public Information

PROJECT FUNDING: \$197,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

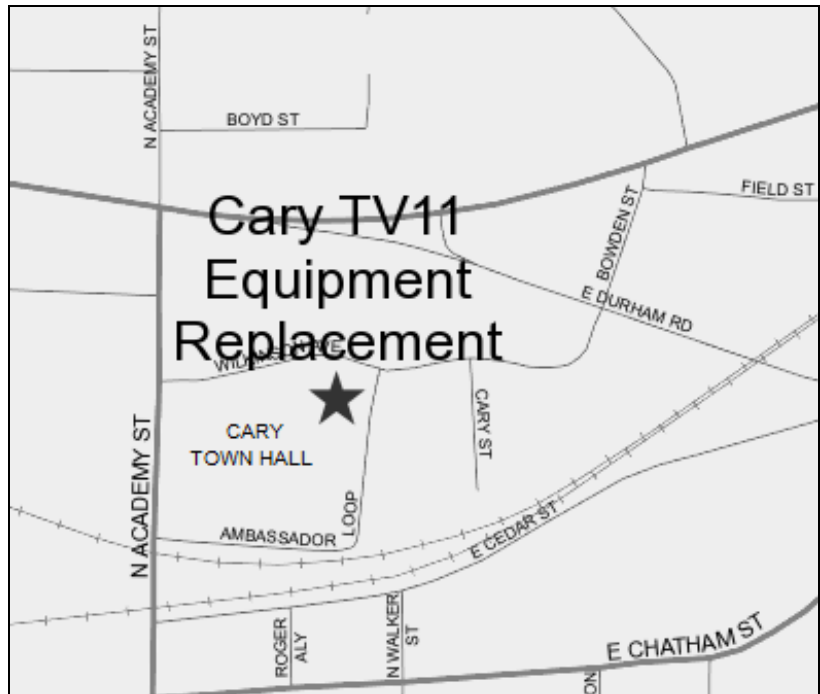
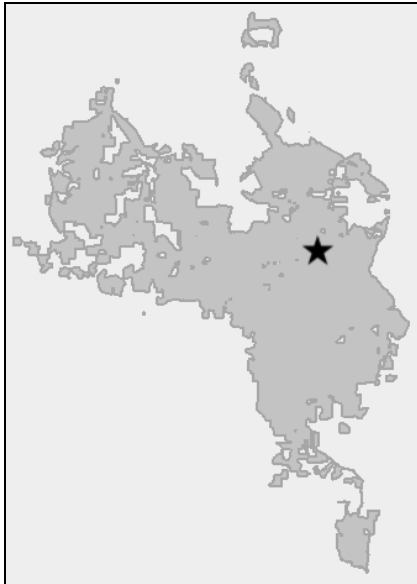
This project provides for the scheduled replacement of the Town's television programming production and broadcast equipment.

The \$197,000 FY 2017 appropriation completes the conversion to digital broadcasting.

PROJECT JUSTIFICATION:

All equipment is placed on a replacement schedule based on typical useful life expectancies. The equipment is reviewed again prior to budget development to determine if replacement is indeed warranted and equipment use is extended in appropriate cases.

PROJECT LOCATION:



F. GENERAL GOVERNMENT

PROJECT TITLE: Evidence Room Expansion or Relocation

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$2,200,000

FIRST YEAR ESTIMATED OPERATING COSTS:

To be estimated once solution is selected.

PROJECT DESCRIPTION:

This project provides for either the expansion of the Town's current evidence room located within the Police Department or the construction of a stand-alone facility for added capacity.

Police Department and Transportation and Facilities Department staff will work together to determine whether expansion of an existing Town facility or construction of a new building will best address the Police Department's long-term evidence storage needs. The \$2,200,000 FY 2017 appropriation is expected to fully support site acquisition (if necessary), design, construction and outfitting of either of these solutions.

PROJECT JUSTIFICATION:

Available storage space is extremely limited within the existing 1,100 square foot evidence room. With some cases requiring that evidence be stored for 50 years or more, there is little likelihood that additional space can be created through disposal of expired items.

PROJECT LOCATION:

A specific location for this project has not yet been determined. Should expansion of the existing facility be the selected option, Town Hall will serve as the project location.

G. GENERAL GOVERNMENT

PROJECT TITLE: Heavy Equipment Replacement Project

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$300,000

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.

PROJECT LOCATION:

This project is not affiliated with a specific location.

H. GENERAL GOVERNMENT

PROJECT TITLE: Roof Assessment and Rehabilitation Program

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$400,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

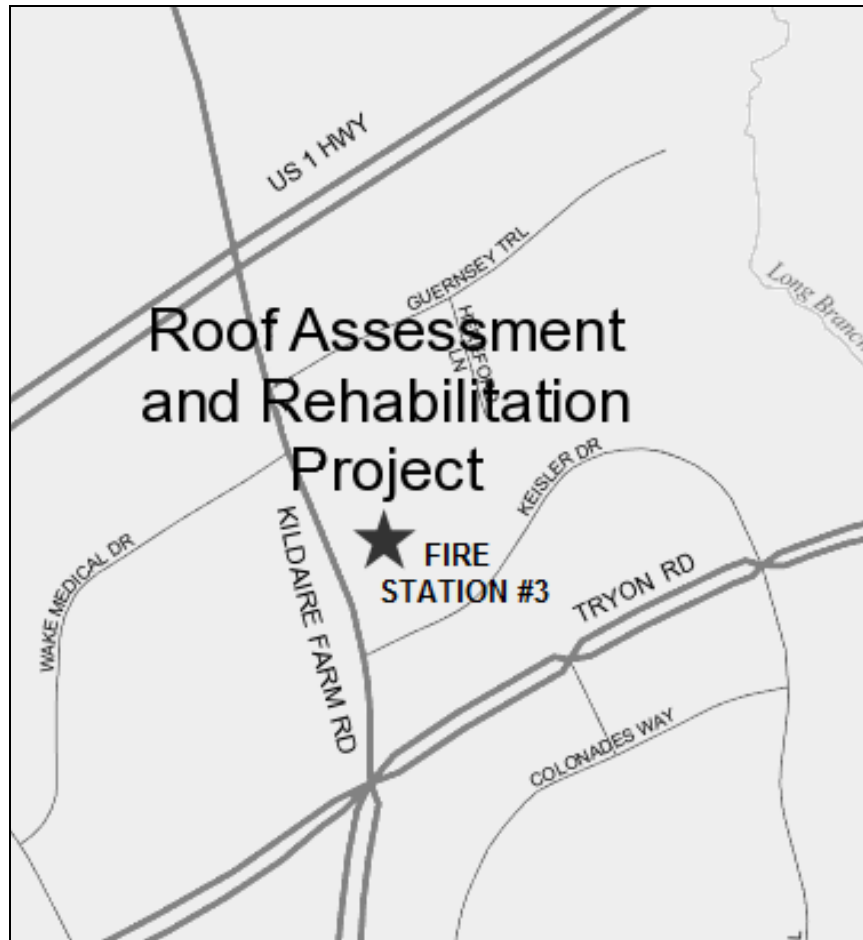
PROJECT DESCRIPTION:

This maintenance project provides for routine replacement of Town facility roofs. The \$400,000 FY 2017 appropriation funds an overall roof condition assessment, as well as the replacement of the Fire Station #3 roof.

PROJECT JUSTIFICATION:

Once the condition assessment is complete, roofs will be selected for replacement based on a priority ranking system. Each roof due for replacement will be re-evaluated as they come up on the scheduled rotation, and replacement will be pursued if this assessment verifies that the timing is appropriate based on the roof's current state.

PROJECT LOCATION:



I. GENERAL GOVERNMENT

PROJECT TITLE: Sanitation and Recycling Truck Replacement

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$900,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project annually sets funds aside for the “pay-as-you-go” replacement of sanitation and recycling vehicles as they are retired and for the purchase of new vehicles as routes are added.

PROJECT JUSTIFICATION:

Sanitation and recycling trucks are typically replaced every eight years. The Town’s practice has been to budget the full amount for these replacements as the existing vehicles are retired. The approach of incrementally providing funds for these expenditures over the eight year life span of each vehicle smoothes out the impact of replacements on the general fund.

PROJECT LOCATION:

This project is not affiliated with a specific location.

J. GENERAL GOVERNMENT

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

RESPONSIBLE DEPARTMENT: Public Works

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 \$60,000 appropriated through FY 2016 provides for the first and second phases of relocations, while the \$30,000 appropriated in FY 2017 provides for the third phase. An additional \$60,000 in funding need is spread between FYs 2018 and 2019 of the capital improvements plan to address the Town's remaining pedestrian crossings at a rate of eight intersections per year.

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 2017 GENERAL CAPITAL IMPROVEMENTS

DOWNTOWN CAPITAL IMPROVEMENTS FUND

A.	5,000,000	DT - Downtown Development Opportunities
B.	<u>300,000</u>	DT - Downtown Improvements
	<u>5,300,000</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 2017 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.

B. DOWNTOWN

PROJECT TITLE: DT - Downtown Improvements

RESPONSIBLE DEPARTMENT: Town Manager's Office

PROJECT FUNDING: \$300,000

FIRST YEAR ESTIMATED OPERATING COSTS: Operating costs have not been estimated as the final projects to be selected have yet to be determined. Any incremental operating costs that cannot be absorbed by existing appropriations will be brought to Council for approval before being implemented.

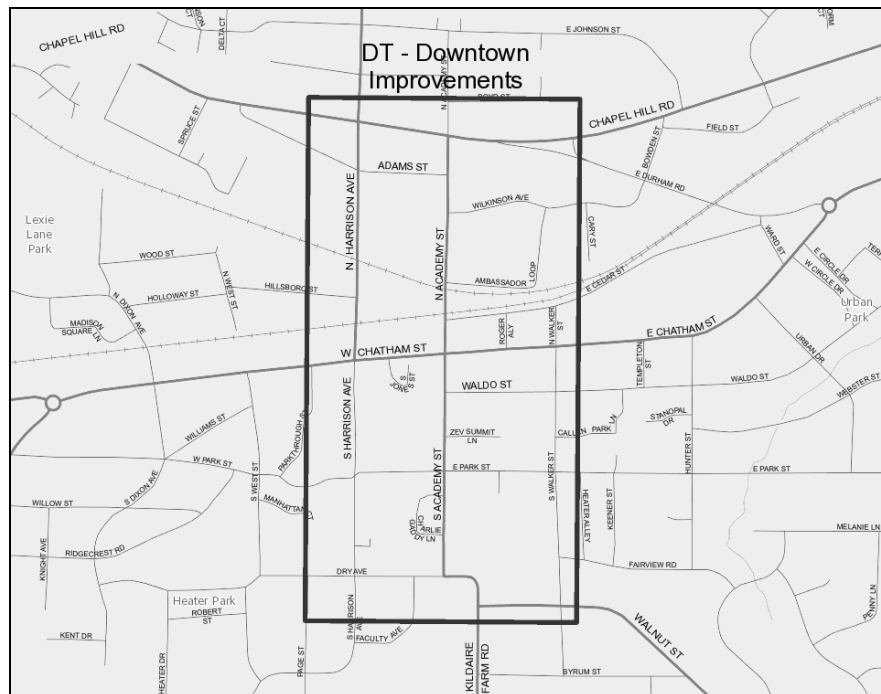
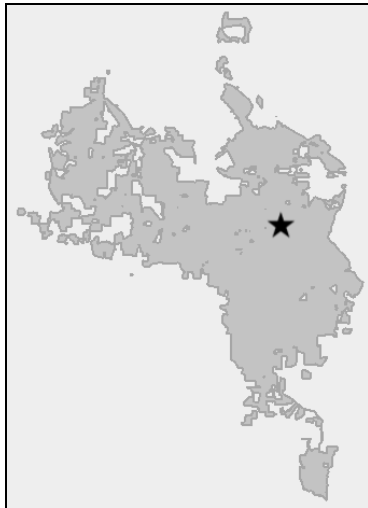
PROJECT DESCRIPTION:

The \$300,000 appropriated in FY 2017 supports downtown improvements. This project provides a dedicated amount of funding for implementation of impactful and visible improvements to the downtown area.

PROJECT JUSTIFICATION:

The Town is committed to bringing more people and new investment to the downtown area, and infrastructure and other physical improvements are two ways to help achieve this goal. A variety of infrastructure enhancements are being evaluated by staff.

PROJECT LOCATION:



Town of Cary Capital Listing

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
DOWNTOWN													
Special Projects													
DT - Downtown Improvements	1,515,320	1,215,320	300,000	0	0	0	0	0	0	0	0	0	0
DT-Development Opportunities	5,000,000	0	5,000,000	0	0	0	0	0	0	0	0	0	0
Total of Special Projects	6,515,320	1,215,320	5,300,000	0	0	0	0	0	0	0	0	0	0
Total of All DOWNTOWN	6,515,320	1,215,320	5,300,000	0	0	0	0	0	0	0	0	0	0

Total of Project Category from FY2017 Through FY2027 = 5,300,000

Town of Cary Capital Listing

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
FIRE													
Equipment													
Self Contained Breathing Apparatus (SCBA) Replacement	2,000,000	0	0	0	0	0	2,000,000	0	0	0	0	0	0
Total of Equipment	2,000,000	0	0	0	0	0	2,000,000	0	0	0	0	0	0
Fire Apparatus													
Aerial Ladder Replacement	4,150,000	0	0	0	2,750,000	1,400,000	0	0	0	0	0	0	0
Aerial Ladder Truck (New Company NW Area)	1,400,000	0	1,400,000	0	0	0	0	0	0	0	0	0	0
Fire Pumper Replacement	1,378,000	0	650,000	0	0	0	728,000	0	0	0	0	0	0
Fire Station 10 Pumper (O'Kelly Chapel Rd)	800,000	0	0	0	0	0	0	800,000	0	0	0	0	0
Fire Station 11 Pumper (White Oak Church Rd.)	800,000	0	0	0	0	0	0	0	800,000	0	0	0	0
Fire Station 12 Pumper (West Lake/ Middle Creek)	815,000	0	0	0	0	0	0	0	0	815,000	0	0	0
Total of Fire Apparatus	9,343,000	0	2,050,000	0	2,750,000	1,400,000	728,000	800,000	800,000	815,000	0	0	0
Special Projects													
Thermal Imaging Camera Replacement	470,400	0	210,000	0	0	0	0	0	0	260,400	0	0	0
Total of Special Projects	470,400	0	210,000	0	0	0	0	0	0	260,400	0	0	0
Stations with Pumpers													
Fire Station 10 (O'Kelly Chapel Rd.)*	9,248,000	925,000	0	0	0	750,000	7,000,000	573,000	0	0	0	0	0
Fire Station 11 (White Oak Church Rd.)	9,388,500	800,000	0	0	0	0	0	795,000	7,793,500	0	0	0	0
Fire Station 12 (West Lake/ Middle Creek)	9,350,000	0	0	0	0	0	0	0	840,000	8,510,000	0	0	0
Fire Station 13 (Lewter Shop Rd. @ 751)	10,836,500	0	0	0	0	0	0	1,300,000	0	0	0	885,000	8,651,500
Fire Station 14 (RDU/Pleasant Grove Ch. Rd.)	2,347,000	0	0	0	0	0	0	0	1,417,000	0	0	0	930,000
Fire Station 15 (Ernest Jones Rd. & Mt. Pisgah Ch. Rd.)	2,438,500	0	0	0	0	0	0	0	0	1,486,000	0	0	952,500
Fire Station 9 (Walnut St.)	7,900,000	750,000	7,150,000	0	0	0	0	0	0	0	0	0	0
Total of Stations with Pumpers	51,508,500	2,475,000	7,150,000	0	0	750,000	7,000,000	2,668,000	10,050,500	9,996,000	0	885,000	10,534,000
Total of All FIRE	63,321,900	2,475,000	9,410,000	0	2,750,000	2,150,000	9,728,000	3,468,000	10,850,500	11,071,400	0	885,000	10,534,000

Total of Project Category from FY2017 Through FY2027 = 60,846,900

*Some or all of the funding for this project would come from a planned, but not adopted, general obligation bond referendum tentatively planned for voter approval in November 2018. The list of projects designated for bond funding in this CIP is preliminary and may change as the Town Council makes decisions about which projects are to be included in the referendum.

Town of Cary Capital Listing

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
GENERAL													
Equipment													
Cary TV 11 Equipment Replacement - FY 2017	197,000	0	197,000	0	0	0	0	0	0	0	0	0	0
Heavy Equipment Replacement Project	4,350,000	1,100,000	300,000	300,000	400,000	450,000	450,000	450,000	450,000	0	450,000	0	0
Sanitation and Recycling Truck Replacement	27,479,873	14,445,965	900,000	945,000	992,250	1,041,863	1,093,956	1,148,653	1,206,086	1,266,390	1,329,710	1,480,000	1,630,000
Total of Equipment	32,026,873	15,545,965	1,397,000	1,245,000	1,392,250	1,491,863	1,543,956	1,598,653	1,656,086	1,266,390	1,779,710	1,480,000	1,630,000
Major Maintenance													
ADA Improvements at Town Facilities	335,350	0	0	335,350	0	0	0	0	0	0	0	0	0
Facility Painting Interior and Exterior	898,000	0	0	70,000	0	85,000	85,000	205,000	115,000	90,000	90,000	83,000	75,000
HVAC Replacements and Major Maintenance	1,252,800	0	0	120,000	0	70,000	20,000	90,000	187,800	175,000	210,000	230,000	150,000
Parking Lot Resurfacing and Renovations	1,298,000	0	0	101,000	0	115,000	95,000	80,000	142,000	175,000	210,000	230,000	150,000
Roof Assessment and Rehabilitation Program	2,490,000	0	400,000	0	300,000	200,000	600,000	0	330,000	330,000	0	330,000	0
Upgrade Pedestrian Crossings (Relocation of Push Buttons)	150,000	60,000	30,000	30,000	30,000	0	0	0	0	0	0	0	0
Total of Major Maintenance	6,424,150	60,000	430,000	656,350	330,000	470,000	800,000	375,000	774,800	770,000	510,000	873,000	375,000
Planning													
AH - DOWNTOWN REHAB AND FAÇADE IMPROVEMENT PROGRAM	790,441	215,441	75,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
AH - Minimum Housing Demolition	412,000	74,500	25,000	0	25,000	0	37,500	37,500	37,500	37,500	37,500	50,000	50,000
AH - Owner-Occupied Housing Rehabilitation Program	2,340,211	515,211	150,000	150,000	150,000	150,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000
Historic Preservation Implementation Activities	201,000	25,000	0	21,000	10,000	0	10,000	35,000	10,000	35,000	10,000	35,000	10,000
Total of Planning	3,743,652	830,152	250,000	221,000	235,000	200,000	272,500	297,500	272,500	297,500	272,500	310,000	285,000
Special Facilities													
Evidence Room Expansion or Relocation	2,200,000	0	2,200,000	0	0	0	0	0	0	0	0	0	0
Total of Special Facilities	2,200,000	0	2,200,000	0	0	0	0	0	0	0	0	0	0
Special Facilities for Operations													
Garmon Operations Center - Facility Improvements Phase II	3,470,000	350,000	0	1,600,000	0	0	0	1,520,000	0	0	0	0	0
Total of Special Facilities for Operations	3,470,000	350,000	0	1,600,000	0	0	0	1,520,000	0	0	0	0	0

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Town of Cary Capital Listing

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
GENERAL													
Special Projects													
Application Software Replacement Project	800,000	0	575,000	225,000	0	0	0	0	0	0	0	0	0
Jordan Lake Retrofits	2,250,000	0	0	0	0	100,000	350,000	0	600,000	600,000	600,000	0	0
Relamping Town Facilities	225,000	125,000	0	100,000	0	0	0	0	0	0	0	0	0
Total of Special Projects	3,275,000	125,000	575,000	325,000	0	100,000	350,000	0	600,000	600,000	600,000	0	0
Storm Drainage													
Storm Drainage Project - Private Assistance	4,042,230	442,230	0	300,000	0	300,000	0	500,000	500,000	500,000	500,000	500,000	500,000
Storm Drainage Project - Town Properties	4,984,692	584,692	0	400,000	0	400,000	0	600,000	600,000	600,000	600,000	600,000	600,000
Stormwater Condition Assessment and Rehabilitation Program	3,500,000	0	0	500,000	0	500,000	0	500,000	500,000	500,000	500,000	500,000	0
Total of Storm Drainage	12,526,922	1,026,922	0	1,200,000	0	1,200,000	0	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,100,000
Total of All GENERAL	63,666,597	17,938,039	4,852,000	5,247,350	1,957,250	3,461,863	2,966,456	5,391,153	4,903,386	4,533,890	4,762,210	4,263,000	3,390,000

Total of Project Category from FY2017 Through FY2027 = 45,728,558

Town of Cary Capital Listing

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
PARKS													
Community Centers													
Mills Park Community Center*	17,500,000	0	0	0	0	1,500,000	15,000,000	1,000,000	0	0	0	0	0
Total of Community Centers	17,500,000	0	0	0	0	1,500,000	15,000,000	1,000,000	0	0	0	0	0
Equipment													
Recreational Facility Sound System Replacements	90,000	0	90,000	0	0	0	0	0	0	0	0	0	0
Total of Equipment	90,000	0	90,000	0	0	0	0	0	0	0	0	0	0
Greenways													
Black Creek Greenway Renovation - Phases I, II & V	4,025,000	300,000	75,000	1,650,000	0	0	2,000,000	0	0	0	0	0	0
Dutchman's Branch Greenway - Phase I	1,150,000	0	0	0	0	0	0	1,150,000	0	0	0	0	0
Hinshaw Greenway Renovation	1,700,000	200,000	0	0	0	0	1,500,000	0	0	0	0	0	0
Middle Creek School/Park Greenway	957,000	0	0	0	0	0	30,000	927,000	0	0	0	0	0
O'Kelley Chapel Road Street-Side Trail	1,300,000	0	0	0	0	0	300,000	1,000,000	0	0	0	0	0
Piney Plains Greenway - Phase II	1,400,000	0	0	0	0	400,000	1,000,000	0	0	0	0	0	0
Speight Branch Greenway - Phase II	3,000,000	0	0	0	0	0	0	500,000	0	2,500,000	0	0	0
White Oak Creek Greenway - MacArthur Park Section	4,000,000	0	4,000,000	0	0	0	0	0	0	0	0	0	0
Total of Greenways	17,532,000	500,000	4,075,000	1,650,000	0	400,000	4,830,000	3,577,000	0	2,500,000	0	0	0
Major Maintenance													
Athletic Field Bleacher Replacement	361,000	0	0	48,000	78,000	25,000	0	20,000	20,000	40,000	40,000	40,000	50,000
Athletic Field Fencing Amenities Replacement (Windscreen, Safety Cap, Padding, Netting)	696,000	0	72,000	0	97,500	0	45,000	97,500	74,000	50,000	100,000	110,000	50,000
Athletic Field Fencing Repair / Replacement	904,000	0	96,000	0	88,000	0	105,000	95,000	110,000	105,000	95,000	105,000	105,000
Athletic Field Lighting Replacement	2,100,000	0	0	0	440,000	0	665,000	0	490,000	0	505,000	0	0
Greenway Resurfacing Projects	3,666,000	0	262,000	250,000	320,000	520,000	340,000	554,000	150,000	315,000	555,000	400,000	0
Indoor Athletic Court Resurfacing	240,000	0	0	0	0	0	0	40,000	40,000	40,000	40,000	40,000	40,000
Playground Surface Repairs/Replacement	866,000	0	83,000	83,000	60,000	85,000	85,000	63,000	75,000	80,000	80,000	87,000	85,000
Professional Level Sand Based Athletic Field Renovation	2,175,000	0	0	550,000	0	0	0	650,000	650,000	0	0	325,000	0
Sports Turf Field Replacement	5,000,000	0	0	0	0	0	0	0	0	0	0	0	5,000,000
Tennis Court Fencing Repair / Replacement	642,500	0	60,000	0	125,000	0	137,500	110,000	70,000	0	0	70,000	70,000
Tennis Court Renovations	1,616,200	0	160,000	72,000	173,000	160,000	80,000	202,000	187,200	96,000	202,800	187,200	96,000
Total of Major Maintenance	18,266,700	0	733,000	1,003,000	1,381,500	790,000	1,457,500	1,831,500	1,866,200	726,000	1,617,800	1,364,200	5,496,000

*Some or all of the funding for this project would come from a planned, but not adopted, general obligation bond referendum tentatively planned for voter approval in November 2018. The list of projects designated for bond funding in this CIP is preliminary and may change as the Town Council makes decisions about which projects are to be included in the referendum.

Town of Cary Capital Listing

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
PARKS													
Parks													
Green Level High School Park (P-007)	10,890,000	0	0	0	0	0	0	990,000	0	9,900,000	0	0	0
Kids Together Playground - Misting Garden	130,000	0	130,000	0	0	0	0	0	0	0	0	0	0
Macedonia Lake Neighborhood Park (P-002)	3,950,000	0	0	0	0	0	0	450,000	3,500,000	0	0	0	0
Morris Branch (P-006) Neighborhood Park	4,600,000	0	100,000	500,000	0	4,000,000	0	0	0	0	0	0	0
Western Cary Disc Golf	50,000	0	50,000	0	0	0	0	0	0	0	0	0	0
Total of Parks	19,620,000	0	280,000	500,000	0	4,000,000	0	1,440,000	3,500,000	9,900,000	0	0	0
Parks - Community													
DT - Downtown Park Future Phases Master Plan	100,000	0	100,000	0	0	0	0	0	0	0	0	0	0
Total of Parks - Community	100,000	0	100,000	0	0	0	0	0	0	0	0	0	0
Parks - Neighborhood													
MacDonald Woods Park Restroom	300,000	0	300,000	0	0	0	0	0	0	0	0	0	0
Total of Parks - Neighborhood	300,000	0	300,000	0	0	0	0	0	0	0	0	0	0
Public Art													
Public Art - Carpenter Park	60,000	0	60,000	0	0	0	0	0	0	0	0	0	0
Public Art - Kids Together Playground - Misting Garden	40,000	0	40,000	0	0	0	0	0	0	0	0	0	0
Total of Public Art	100,000	0	100,000	0	0	0	0	0	0	0	0	0	0
Renovations - Park & Greenway													
Annie Jones Park Tennis Court Renovations	650,000	0	0	50,000	0	600,000	0	0	0	0	0	0	0
Brooks Park Outfield Drainage Project	450,000	0	450,000	0	0	0	0	0	0	0	0	0	0
Dunham Park Improvements	1,050,000	0	0	150,000	0	900,000	0	0	0	0	0	0	0
Godbold Park Renovation (Playground, Tennis Courts, Restroom)	1,975,000	0	0	0	0	0	0	225,000	0	1,750,000	0	0	0
Middle Creek Tennis Court Replacement	1,000,000	0	0	0	0	0	0	0	150,000	0	850,000	0	0
Park and Greenway Renovations	6,750,000	0	125,000	500,000	500,000	500,000	500,000	500,000	825,000	825,000	825,000	825,000	825,000
Recreational Facility Improvements	1,230,000	0	330,000	0	400,000	0	0	500,000	0	0	0	0	0
Restroom Replacement	1,350,000	0	0	0	300,000	300,000	0	0	350,000	0	0	0	400,000
Total of Renovations - Park & Greenway	14,455,000	0	905,000	700,000	1,200,000	2,300,000	500,000	1,225,000	1,325,000	2,575,000	1,675,000	825,000	1,225,000

Town of Cary Capital Listing

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
PARKS													
Special Facilities													
Cary Tennis Park Court Renovations	3,135,000	925,000	275,000	450,000	0	0	1,485,000	0	0	0	0	0	0
Cary Tennis Park Improvements - Interlocal	6,508,000	5,021,629	1,486,371	0	0	0	0	0	0	0	0	0	0
Koka Booth Amphitheatre Improvements	2,800,000	350,000	0	0	350,000	0	350,000	350,000	350,000	350,000	350,000	350,000	0
Mills Park Community Center Planning Funding	50,000	0	50,000	0	0	0	0	0	0	0	0	0	0
Safety Town for Kids	600,000	0	0	0	0	0	0	100,000	500,000	0	0	0	0
TCAP - Digital Arts Center	1,170,000	0	0	0	0	0	0	0	20,000	150,000	1,000,000	0	0
USA Baseball National Training Facility Improvements - Interlocal	6,455,000	1,530,000	4,925,000	0	0	0	0	0	0	0	0	0	0
WakeMed Soccer Park - Facility Improvements - Interlocal	3,150,000	1,150,000	0	0	0	2,000,000	0	0	0	0	0	0	0
WakeMed Soccer Park - Video Board Replacement	750,000	0	0	0	0	0	0	0	0	0	750,000	0	0
Total of Special Facilities	24,618,000	8,976,629	6,736,371	450,000	350,000	2,000,000	1,835,000	450,000	870,000	500,000	2,100,000	350,000	0
Special Projects													
Park, Greenway and Facility Sign Plan Implementation	520,000	325,000	45,000	50,000	0	0	0	50,000	0	50,000	0	0	0
Total of Special Projects	520,000	325,000	45,000	50,000	0	0	0	50,000	0	50,000	0	0	0
Total of All PARKS	113,101,700	9,801,629	13,364,371	4,353,000	2,931,500	10,990,000	23,622,500	9,573,500	7,561,200	16,251,000	5,392,800	2,539,200	6,721,000

Total of Project Category from FY2017 Through FY2027 = 103,300,071

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Town of Cary Capital Listing

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
SEWER													
Equipment													
Backhoe with Loader - Sewer	324,432	0	0	0	129,735	0	0	0	0	0	194,697	0	0
Bobcat, Skid Loader - Sewer	93,503	0	93,503	0	0	0	0	0	0	0	0	0	0
Truck with Crane, 0-25 Feet - Sewer	128,947	0	0	0	0	0	0	0	128,947	0	0	0	0
Truck, Catch Basin, Jet - Sewer	346,604	0	0	0	0	0	346,604	0	0	0	0	0	0
Truck, Catch Basin, Vacuum Jet - Sewer	1,245,000	0	0	400,000	415,000	430,000	0	0	0	0	0	0	0
Truck, Dump, 10-11 Cubic Yard - Sewer	127,110	0	127,110	0	0	0	0	0	0	0	0	0	0
Truck, Dump, 12-14 Cubic Yards - Sewer	233,077	0	0	0	0	0	0	233,077	0	0	0	0	0
Van with CCTV - Sewer (Replacement)	304,000	0	304,000	0	0	0	0	0	0	0	0	0	0
Total of Equipment	2,802,673	0	524,613	400,000	544,735	430,000	346,604	233,077	128,947	0	194,697	0	0
Major Maintenance													
South Cary Water Reclamation Facility - HVAC Replacement	56,400	0	0	56,400	0	0	0	0	0	0	0	0	0
Total of Major Maintenance	56,400	0	0	56,400	0	0	0	0	0	0	0	0	0

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Town of Cary Capital Listing

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
SEWER													
Pump Stations and Force Mains													
Aviation Pump Station Upgrade	3,100,000	0	0	0	0	0	0	0	0	0	0	3,100,000	0
Basin W12 Regional Pump Station, Gravity Sewer & Force Main	5,800,000	800,000	1,000,000	4,000,000	0	0	0	0	0	0	0	0	0
Batchelor Road Pump Station, Interceptor, and Force Main	1,900,500	0	0	0	0	0	186,000	1,714,500	0	0	0	0	0
Bells Lake Road Pump Station, Interceptor, and Force Main	4,042,950	0	0	0	0	0	0	222,250	3,820,700	0	0	0	0
Dutchman's Branch Regional Pump Station, Force Main and Interceptor	4,800,000	800,000	0	0	0	0	0	0	0	4,000,000	0	0	0
KCPS and MBRPS Force Main Parallel along Green Level Church Road	5,000,000	0	0	0	0	0	5,000,000	0	0	0	0	0	0
MacGregor Park Pump Station Elimination	360,000	210,000	150,000	0	0	0	0	0	0	0	0	0	0
Reedy Creek Regional Pump Station Force Main, Interceptor and Pump Station Eliminations	11,100,000	900,000	0	0	0	0	2,500,000	7,700,000	0	0	0	0	0
Rocky Branch Pump Station, Interceptor, and Force Main	3,370,000	0	0	0	0	0	2,620,000	750,000	0	0	0	0	0
Swift Creek Pump Station - Pump Replacements	1,000,000	0	0	0	0	0	0	0	0	0	0	1,000,000	0
Upper Crabtree Creek Pump Station and Force Main	21,080,000	680,000	2,400,000	18,000,000	0	0	0	0	0	0	0	0	0
White Oak Church Road Pump Station, Interceptor, and Force Main	1,500,000	0	0	0	0	0	150,000	1,350,000	0	0	0	0	0
Total of Pump Stations and Force Mains	63,053,450	3,390,000	3,550,000	22,000,000	0	0	10,456,000	11,736,750	3,820,700	4,000,000	0	4,100,000	0
Reclaimed Water													
Extend Reclaimed Water Mains	1,466,977	0	134,010	0	0	0	162,889	171,033	179,588	188,567	197,995	207,895	225,000
Reclaimed Water Line Oversizings	2,192,565	0	159,500	167,475	175,849	184,642	193,874	200,000	206,000	212,180	218,545	224,500	250,000
Reclaimed Water System Master Plan Update	250,000	0	0	0	0	0	0	0	250,000	0	0	0	0
Total of Reclaimed Water	3,909,542	0	293,510	167,475	175,849	184,642	356,763	371,033	635,588	400,747	416,540	432,395	475,000
Sewer System Repair/Rehab													
Sewer System Repair/Rehabilitation	43,655,246	0	5,985,982	5,428,112	6,423,628	5,782,659	5,171,865	5,808,000	1,674,000	1,719,000	1,764,000	1,898,000	2,000,000
Total of Sewer System Repair/Rehab	43,655,246	0	5,985,982	5,428,112	6,423,628	5,782,659	5,171,865	5,808,000	1,674,000	1,719,000	1,764,000	1,898,000	2,000,000

Town of Cary Capital Listing

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
SEWER													
Waste Water Collection													
Carystone Pump Station Elimination	410,000	260,000	150,000	0	0	0	0	0	0	0	0	0	0
Crabtree Interceptor Parallel	6,500,000	0	0	0	0	0	6,500,000	0	0	0	0	0	0
Holly Brook Ph I, II, III Sewer Extension	2,886,706	2,617,706	269,000	0	0	0	0	0	0	0	0	0	0
I-40 Pump Station Improvements	200,000	0	0	200,000	0	0	0	0	0	0	0	0	0
Lower Swift Creek Parallel Interceptor	3,150,000	1,150,000	2,000,000	0	0	0	0	0	0	0	0	0	0
RDU Center Pump Station Force Main Replacement	1,570,000	0	1,570,000	0	0	0	0	0	0	0	0	0	0
Sanitary Sewer Oversizings	2,125,000	0	190,000	195,000	200,000	205,000	210,000	215,000	220,000	225,000	230,000	235,000	0
Upper Swift Creek Parallel Interceptor	780,000	0	0	0	0	0	0	0	780,000	0	0	0	0
Total of Waste Water Collection	17,621,706	4,027,706	4,179,000	395,000	200,000	205,000	6,710,000	215,000	1,000,000	225,000	230,000	235,000	0
Waste Water System Management													
Biosolids and Residuals Master Plan	300,000	0	0	0	0	0	300,000	0	0	0	0	0	0
Cleaning and Video Survey of Sewer Interceptors	8,040,050	2,009,500	426,800	448,200	470,500	494,100	518,800	544,750	572,000	600,600	630,600	662,100	662,100
Force Main Easement Clearing Project - Survey and Clear	400,000	200,000	0	0	100,000	0	100,000	0	0	0	0	0	0
Miscellaneous Pump Station Grinder Exchange Rebuild / Replace	690,000	240,000	0	150,000	0	0	150,000	0	0	150,000	0	0	0
North Cary Water Reclamation Facility - Mixer Replacements	700,000	300,000	200,000	200,000	0	0	0	0	0	0	0	0	0
Pump Station Variable Frequency Drive (VFD) Replacements	500,000	125,000	0	0	125,000	0	0	125,000	0	0	125,000	0	0
SCADA (Supervisory and Data Acquisition Control) at the Tier II Wastewater Pump Stations	500,000	0	0	0	500,000	0	0	0	0	0	0	0	0
Sewer Flow Management Modeling Scenarios	450,000	300,000	0	150,000	0	0	0	0	0	0	0	0	0
Wastewater Collection System Master Plan Update	500,000	0	0	250,000	0	0	0	0	250,000	0	0	0	0
Wastewater System Flow Monitoring - Replace Flow Meters	131,550	0	0	0	0	0	0	131,550	0	0	0	0	0
Total of Waste Water System Management	12,211,600	3,174,500	626,800	1,198,200	1,195,500	494,100	1,068,800	801,300	822,000	750,600	755,600	662,100	662,100

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Town of Cary Capital Listing

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
SEWER													
Waste Water Treatment													
North Cary Water Reclamation Facility - Administration Building Roof Replacement	240,000	240,000	0	0	0	0	0	0	0	0	0	0	0
North Cary Water Reclamation Facility - Alternate Treated Wastewater Discharge	500,000	0	0	0	0	0	0	0	0	0	150,000	350,000	0
North Cary Water Reclamation Facility - Band Screen Repair and Replacement	900,000	150,000	0	0	0	0	0	0	750,000	0	0	0	0
North Cary Water Reclamation Facility - Clarifier Equipment Repair and Replacement	350,000	150,000	50,000	150,000	0	0	0	0	0	0	0	0	0
North Cary Water Reclamation Facility - Grit Removal and Headworks Improvements	2,000,000	0	0	0	0	0	0	250,000	1,750,000	0	0	0	0
North Cary Water Reclamation Facility - HVAC Replacements	45,000	0	15,000	0	30,000	0	0	0	0	0	0	0	0
North Cary Water Reclamation Facility - Improvements for Continuous Three Train Operation	50,000	0	0	50,000	0	0	0	0	0	0	0	0	0
North Cary Water Reclamation Facility - Inductively Coupled Plasma Mass Spectrometer Replacement	225,000	0	0	0	0	0	0	225,000	0	0	0	0	0
North Cary Water Reclamation Facility - Influent Pump Station Screen Replacements	500,000	0	0	0	0	0	0	0	0	0	500,000	0	0
North Cary Water Reclamation Facility - Mobile Engine Driven Pump Replacement	90,000	0	90,000	0	0	0	0	0	0	0	0	0	0
North Cary Water Reclamation Facility - Partial-and-Full_DiffusedAirSystem	6,800,000	2,500,000	4,300,000	0	0	0	0	0	0	0	0	0	0
North Cary Water Reclamation Facility - Programmable Logic Controller Replacements	2,000,000	0	0	0	0	0	0	0	500,000	500,000	500,000	500,000	0
North Cary Water Reclamation Facility - Return Activated Sludge Pump Replacements	250,000	0	0	0	0	0	0	0	0	250,000	0	0	0
North Cary Water Reclamation Facility - Submersible Influent Pump Replacement	450,000	0	0	0	0	0	150,000	150,000	150,000	0	0	0	0
North Cary Water Reclamation Facility - Tertiary Filter Cells Addition	2,000,000	0	0	0	0	0	0	0	0	250,000	1,750,000	0	0
North Cary Water Reclamation Facility - Variable Frequency Drive Replacement	600,000	200,000	0	0	0	200,000	200,000	0	0	0	0	0	0
South Cary Water Reclamation Facility - Programmable Logic Controller Replacements	1,000,000	0	0	0	0	0	500,000	500,000	0	0	0	0	0
South Cary Water Reclamation Facility - Aeration Basin Blower Replacements	650,000	0	0	325,000	0	0	325,000	0	0	0	0	0	0
South Cary Water Reclamation Facility - Aeration Basin Recycle Pump Replacements	240,000	0	0	80,000	80,000	80,000	0	0	0	0	0	0	0
South Cary Water Reclamation Facility - Centrifuge Replacement Project	2,500,000	0	0	0	0	0	0	0	225,000	2,275,000	0	0	0
South Cary Water Reclamation Facility - Clarifier Equipment Repair and Replacement	750,000	0	200,000	200,000	100,000	0	0	0	0	250,000	0	0	0
South Cary Water Reclamation Facility - Demolition of Lagoons	325,000	200,000	125,000	0	0	0	0	0	0	0	0	0	0
South Cary Water Reclamation Facility - Flow Equalization Study	650,000	0	0	150,000	0	500,000	0	0	0	0	0	0	0

Town of Cary Capital Listing

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
SEWER													
South Cary Water Reclamation Facility - Generator Automated Transfer Switch Replacement	90,000	0	90,000	0	0	0	0	0	0	0	0	0	0
South Cary Water Reclamation Facility - Gravity Belt Thickener Rebuild	400,000	0	0	150,000	0	0	0	0	0	0	0	250,000	0
South Cary Water Reclamation Facility - Headworks Equipment Improvements	350,000	0	0	0	0	0	0	350,000	0	0	0	0	0
South Cary Water Reclamation Facility - Inductively Coupled Plasma Mass Spectrometer Replacement	225,000	0	0	0	0	0	0	0	0	225,000	0	0	0
South Cary Water Reclamation Facility - Plant Drain Pump Station Improvements	125,000	0	0	0	125,000	0	0	0	0	0	0	0	0
South Cary Water Reclamation Facility - Polishing Pond Liner Replacement	250,000	0	0	0	250,000	0	0	0	0	0	0	0	0
South Cary Water Reclamation Facility - RAS/WAS Pump Station Improvements	350,000	0	0	0	0	350,000	0	0	0	0	0	0	0
South Cary Water Reclamation Facility - Reclaimed Pump Station Rebuild and Replacement	225,000	0	0	0	0	0	0	0	0	0	225,000	0	0
South Cary Water Reclamation Facility - Screen Replacement	400,000	0	0	0	0	0	0	0	0	400,000	0	0	0
South Cary Water Reclamation Facility - Thermal Biosolids Dryer - Centrifuge Rebuild	350,000	175,000	0	0	0	175,000	0	0	0	0	0	0	0
South Cary Water Reclamation Facility - Thermal Biosolids Dryer - Dewatered Cake Mixer Repair and Replacement	250,000	0	100,000	0	0	0	0	150,000	0	0	0	0	0
South Cary Water Reclamation Facility - Thermal Biosolids Dryer - Dewatered Cake Pump	475,000	175,000	50,000	0	0	0	0	0	0	0	0	0	250,000
South Cary Water Reclamation Facility - Thermal Biosolids Dryer - Induction Fan Replacement	225,000	0	100,000	0	0	0	0	0	0	0	125,000	0	0
South Cary Water Reclamation Facility - Thermal Biosolids Dryer - Rotary Drum Replacement	1,450,000	200,000	1,000,000	0	0	0	0	0	0	0	0	250,000	0
South Cary Water Reclamation Facility - Variable Frequency Drive Replacements	600,000	0	0	200,000	200,000	0	0	200,000	0	0	0	0	0
Western Wake Water Reclamation Facility - Biofilter Media Replacement for Odor Control	300,000	0	0	0	0	0	0	0	0	300,000	0	0	0
Western Wake Water Reclamation Facility - Carbon Replacement for Odor Control North Odor Control and Solid Handling Facility	140,000	0	0	0	0	70,000	0	0	0	0	70,000	0	0
Western Wake Water Reclamation Facility - Clarifier Rake Arm System (wear strip and bearing replacement)	90,000	0	0	0	0	0	0	0	0	0	0	0	90,000
Western Wake Water Reclamation Facility - Drag Conveyor Replacement	250,000	0	0	0	0	0	0	0	0	0	250,000	0	0
Western Wake Water Reclamation Facility - NCRY and ARCY Pump Rebuild/Replace	88,000	0	0	0	0	0	0	0	22,000	22,000	22,000	22,000	0
Western Wake Water Reclamation Facility - Process Instrumentation Analyzers	35,000	0	35,000	0	0	0	0	0	0	0	0	0	0
Western Wake Water Reclamation Facility - Rebuild Jet Aeration and Post Aeration Pumps	332,000	0	0	0	0	0	83,000	83,000	83,000	83,000	0	0	0
Western Wake Water Reclamation Facility - Rebuild Mechanical Screen and Grinder	92,000	0	0	0	0	0	0	0	0	0	0	92,000	0

Town of Cary Capital Listing

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
SEWER													
Western Wake Water Reclamation Facility - Rebuild/Replace Mixers	244,000	0	0	0	0	0	61,000	61,000	61,000	61,000	0	0	0
Total of Waste Water Treatment	30,451,000	3,990,000	6,155,000	1,305,000	785,000	1,375,000	1,319,000	1,969,000	3,541,000	4,616,000	3,592,000	1,464,000	340,000
WWRWMF													
Western Wake Water Reclamation Facility - Western Wake Regional Wastewater Management Facility - Phase II	500,000	0	0	0	0	0	0	0	0	0	500,000	0	0
Total of WWRWMF	500,000	0	0	0	0	0	0	0	0	0	500,000	0	0
Total of All SEWER	174,261,617	14,582,206	21,314,905	30,950,187	9,324,712	8,471,401	25,429,032	21,134,160	11,622,235	11,711,347	7,452,837	8,791,495	3,477,100

Total of Project Category from FY2017 Through FY2027 = 159,679,411

Town of Cary Capital Listing

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
TRANSPORTATION													
Alternate Modes													
2012 Bond - Sidewalk Facilities	1,832,000	804,300	1,027,700	0	0	0	0	0	0	0	0	0	0
Bicycle Facilities Implementation	255,000	0	0	25,000	0	25,000	25,000	30,000	30,000	30,000	30,000	30,000	30,000
Cary Transit (C-Tran)	205,000	0	15,000	15,000	15,000	15,000	20,000	20,000	20,000	20,000	20,000	20,000	25,000
Connectivity Annual Project	500,000	0	0	0	0	0	0	0	0	0	0	0	500,000
Sidewalk and Pedestrian Improvements	11,775,000	0	1,000,000	1,000,000	1,000,000	1,375,000	1,000,000	1,000,000	1,000,000	1,200,000	1,200,000	1,000,000	1,000,000
Total of Alternate Modes	14,567,000	804,300	2,042,700	1,040,000	1,015,000	1,415,000	1,045,000	1,050,000	1,050,000	1,250,000	1,250,000	1,050,000	1,555,000
Control Systems													
School Zone Flasher Integration in the signal system	450,000	0	0	0	0	0	0	450,000	0	0	0	0	0
Signal System - Camera Coverage Expansion	1,200,000	350,000	0	0	400,000	0	0	0	0	450,000	0	0	0
Thoroughfare Street Lights	300,000	0	0	0	0	300,000	0	0	0	0	0	0	0
Traffic Signal Changes to Flashing Yellow Arrow	700,000	0	0	0	0	0	0	200,000	0	200,000	0	300,000	0
Traffic Signalization Projects	3,500,000	0	0	400,000	0	300,000	550,000	0	650,000	0	750,000	0	850,000
Total of Control Systems	6,150,000	350,000	0	400,000	400,000	600,000	550,000	650,000	650,000	650,000	750,000	300,000	850,000
Major Maintenance													
Bridge Replacements	3,000,000	0	0	0	0	0	0	0	750,000	0	1,000,000	0	1,250,000
Bridge/Culvert Repairs	785,000	0	0	85,000	0	0	100,000	0	150,000	0	200,000	0	250,000
Street Improvement Project	82,425,000	0	5,900,000	6,500,000	6,750,000	7,375,000	7,150,000	7,500,000	7,750,000	8,000,000	8,250,000	8,500,000	8,750,000
Total of Major Maintenance	86,210,000	0	5,900,000	6,585,000	6,750,000	7,375,000	7,250,000	7,500,000	8,650,000	8,000,000	9,450,000	8,500,000	10,250,000

Town of Cary Capital Listing

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
TRANSPORTATION													
Road Capacity													
Carpenter Fire Station Road Widening (NC55 to East of Cameron Pond)	9,700,000	0	0	1,100,000	2,500,000	6,100,000	0	0	0	0	0	0	0
Cary Parkway Extension (North Harrison Avenue to Trinity Road)	7,500,000	0	0	0	0	0	0	0	0	0	1,000,000	1,500,000	5,000,000
Chapel Hill Road - N. Academy to Reedy Creek*	6,200,000	0	0	0	0	350,000	5,850,000	0	0	0	0	0	0
Chapel Hill Road Widening - (N. Academy to south of NW Maynard Road)	6,750,000	0	0	0	0	0	0	0	750,000	2,000,000	4,000,000	0	0
Chapel Hill Road Widening - Phase III (NW Maynard Road to Morrisville ETJ)	11,000,000	0	0	0	0	0	0	0	0	1,000,000	2,000,000	8,000,000	0
Green Level Church Road - McCrimmon Parkway to O'Kelly Chapel Road	8,500,000	0	0	0	0	0	0	0	0	1,250,000	1,750,000	5,500,000	0
Holly Springs Road Widening - Cary Parkway to Jones Franklin Road	4,000,000	0	0	0	0	0	0	0	500,000	500,000	3,000,000	0	0
Intersection Improvements	15,250,000	0	3,250,000	0	0	1,250,000	4,000,000	0	0	0	1,000,000	1,000,000	4,750,000
Louis Stephens Drive Extension - Gray Marble to Little Drive in RTP	7,250,000	0	0	0	0	0	0	0	750,000	2,000,000	4,500,000	0	0
McCrimmon Parkway Extension - NC55 to Louis Stephens Drive	26,000,000	0	0	0	0	0	0	2,000,000	4,000,000	20,000,000	0	0	0
Morrisville Parkway Extension - Phase III - NC55 to Green Level Church Road	24,885,000	13,185,000	0	0	0	0	0	0	0	0	1,200,000	1,500,000	9,000,000
Penny Road Widening - Ederlee Drive to Kildaire Farm Road	4,700,000	0	0	0	0	0	0	0	0	0	450,000	1,250,000	3,000,000
Reedy Creek Road Widening - Northeast Maynard Road to North Harrison Avenue**	9,750,000	600,000	0	0	9,150,000	0	0	0	0	0	0	0	0
TCAP - South Harrison Avenue Extension	9,250,000	0	0	0	0	0	0	1,250,000	3,000,000	5,000,000	0	0	0
Total of Road Capacity	150,735,000	13,785,000	3,250,000	1,100,000	11,650,000	7,700,000	9,850,000	3,250,000	9,000,000	31,750,000	18,900,000	18,750,000	21,750,000
Special Projects													
Spot Improvements (Based on Levels of Service, Safety and Citizen Concerns)	2,462,500	0	0	225,000	150,000	250,000	0	275,000	287,500	300,000	312,500	325,000	337,500
Total of Special Projects	2,462,500	0	0	225,000	150,000	250,000	0	275,000	287,500	300,000	312,500	325,000	337,500
Storm Drainage													
Street Storm Drainage System Rehabilitation	3,600,901	600,901	0	250,000	250,000	0	350,000	350,000	350,000	350,000	350,000	350,000	400,000
Total of Storm Drainage	3,600,901	600,901	0	250,000	250,000	0	350,000	350,000	350,000	350,000	350,000	350,000	400,000
Total of All TRANSPORTATION	263,725,401	15,540,201	11,192,700	9,600,000	20,215,000	17,340,000	19,045,000	13,075,000	19,987,500	42,300,000	31,012,500	29,275,000	35,142,500
Total of Project Category from FY2017 Through FY2027 = 248,185,200													

*Some or all of the funding for this project would come from a planned, but not adopted, general obligation bond referendum tentatively planned for voter approval in November 2018. The list of projects designated for bond funding in this CIP is preliminary and may change as the Town Council makes decisions about which projects are to be included in the referendum.

** Council has indicated that it will reconsider this project in October 2016 and evaluate it against capacity projects on the Not Programmed/Not Planned list.

Town of Cary Capital Listing

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
WATER													
Acquisition - Land													
New Water Storage Tank Sites	2,250,000	0	1,000,000	0	0	0	1,250,000	0	0	0	0	0	0
Total of Acquisition - Land	2,250,000	0	1,000,000	0	0	0	1,250,000	0	0	0	0	0	0
Equipment													
Backhoe, with Loader - Water	206,379	0	0	0	0	0	0	0	0	0	0	0	206,379
Bobcat - Water	44,177	0	44,177	0	0	0	0	0	0	0	0	0	0
Forklift, Industrial, Power Slide - Water	32,700	0	0	32,700	0	0	0	0	0	0	0	0	0
Pump, Vacuum, Tire Mounted - Water	254,422	0	0	0	0	0	118,648	0	0	0	0	135,774	0
Truck with Crane, 0-25 Feet - Water	523,035	0	123,279	126,977	0	134,374	0	138,405	0	0	0	0	0
Truck, Dump, 10-11 Cubic Yard - Water	127,110	0	127,110	0	0	0	0	0	0	0	0	0	0
Truck, Dump, 12-14 Cubic Yards - Water	344,995	0	167,181	0	0	177,814	0	0	0	0	0	0	0
Truck, Tractor - Water	273,008	0	0	0	0	0	0	0	0	0	0	0	273,008
Valve Operating and Exercising Machine	100,000	0	100,000	0	0	0	0	0	0	0	0	0	0
Total of Equipment	1,905,826	0	561,747	159,677	0	312,188	118,648	138,405	0	0	0	135,774	479,387
Other Water Projects													
Aquastar Additional Infrastructure	225,000	75,000	0	0	0	75,000	0	0	0	0	75,000	0	0
Cary-Apex-Chatham Interconnection	150,000	0	50,000	100,000	0	0	0	0	0	0	0	0	0
Cary-Apex-Holly Springs Interconnection Improvements	400,000	0	100,000	300,000	0	0	0	0	0	0	0	0	0
Total of Other Water Projects	775,000	75,000	150,000	400,000	0	75,000	0	0	0	0	75,000	0	0

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Town of Cary Capital Listing

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
WATER													
Water Lines													
Arthur Pierce Road Water Line Connector	500,000	0	500,000	0	0	0	0	0	0	0	0	0	0
Carpenter Fire Station Road Waterline Connection	260,000	0	0	0	0	0	0	0	0	0	0	260,000	0
Extend Water Mains	3,309,973	0	306,216	302,447	301,310	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000
Holly Brook Subdivision Waterlines	2,776,439	2,112,439	664,000	0	0	0	0	0	0	0	0	0	0
Horton's Creek Road Parallel Waterline	950,000	0	0	0	0	0	0	0	0	100,000	850,000	0	0
Kildaire Farm Road Water Line Reinforcement - Central	3,100,000	600,000	2,500,000	0	0	0	0	0	0	0	0	0	0
Maynard Road Water Line Reinforcement - Southeast	1,590,000	0	0	1,590,000	0	0	0	0	0	0	0	0	0
Maynard Road Water Line Reinforcement - Southwest Phase II	520,000	0	0	520,000	0	0	0	0	0	0	0	0	0
Maynard Road Water Line Reinforcement - Southwest Phase I	1,380,000	0	0	0	0	1,380,000	0	0	0	0	0	0	0
McCrimmon Parkway Connections	800,000	0	0	0	0	0	0	0	0	0	0	800,000	0
Morrisville Parkway Water Line Connections	350,000	0	0	350,000	0	0	0	0	0	0	0	0	0
Optimist Farm Road Water Line - West	888,000	310,000	0	0	0	578,000	0	0	0	0	0	0	0
Pierce Olive Road Water Line	2,269,000	1,070,000	0	0	0	1,199,000	0	0	0	0	0	0	0
Pleasant Grove Church Road Water Line Reinforcement	1,635,000	0	0	0	0	1,635,000	0	0	0	0	0	0	0
Stephenson Road Water Line and Ten-Ten Rd Water Line West	700,000	0	0	0	125,000	575,000	0	0	0	0	0	0	0
Towerview Court Water Line Interconnection	75,000	0	75,000	0	0	0	0	0	0	0	0	0	0
Tryon Road Waterline Upsizing	1,220,000	0	0	220,000	0	1,000,000	0	0	0	0	0	0	0
Upgrade Water Lines	73,500,000	0	5,000,000	5,000,000	5,000,000	5,000,000	6,500,000	7,000,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000
Water Line Oversizings	2,036,000	0	152,000	160,000	168,000	176,000	185,000	195,000	200,000	200,000	200,000	200,000	200,000
Water System - Air Release Valve Replacements	450,000	0	150,000	150,000	150,000	0	0	0	0	0	0	0	0
Water System - Critical Water Line Locating and Testing	2,100,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000
Water System - Valve Replacements	1,375,000	0	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000
White Oak Church Road Water Line	2,362,500	0	0	0	0	0	0	0	0	2,362,500	0	0	0
Total of Water Lines	104,146,912	4,267,439	9,647,216	8,592,447	6,044,310	12,143,000	7,285,000	7,795,000	8,800,000	11,262,500	9,650,000	9,860,000	8,800,000

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Town of Cary Capital Listing

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
WATER													
Water Storage Tanks													
Crossroads Ground Storage Tank and Booster Pump Station	5,600,000	600,000	5,000,000	0	0	0	0	0	0	0	0	0	0
Elevated Water Storage Tank Repainting – Carpenter Tank	750,000	0	150,000	600,000	0	0	0	0	0	0	0	0	0
Harrison Elevated Water Tank Renovation	1,100,000	800,000	0	300,000	0	0	0	0	0	0	0	0	0
Kilmayne Water Storage Tank	7,750,000	7,000,000	0	750,000	0	0	0	0	0	0	0	0	0
Remote Water System Programmable Logic Controller Replacements and SCADA Upgrades	150,000	50,000	100,000	0	0	0	0	0	0	0	0	0	0
Water Storage Tank Repainting - Field Street Tank	700,000	0	0	0	0	0	0	0	0	0	700,000	0	0
Water Storage Tank Repainting – Old Apex Tank	700,000	0	0	150,000	550,000	0	0	0	0	0	0	0	0
Water Storage Tank Repainting - Ridgeview Tank	750,000	0	0	0	0	0	0	0	0	0	0	750,000	0
Total of Water Storage Tanks	17,500,000	8,450,000	5,250,000	1,800,000	550,000	0	0	0	0	0	700,000	750,000	0
Water System Management													
Davis Drive Booster Pump Station Modifications	125,000	0	125,000	0	0	0	0	0	0	0	0	0	0
Flow Metering throughout Distribution System	500,000	0	0	0	0	0	0	0	500,000	0	0	0	0
Jordan Lake Partnership	767,500	327,500	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000
Water Main Condition Assessment Program	855,000	275,000	50,000	50,000	50,000	50,000	50,000	100,000	50,000	30,000	50,000	50,000	50,000
Water Resource Planning and Management	3,956,739	851,860	196,715	210,485	225,219	240,985	257,854	275,904	295,217	315,882	337,994	361,654	386,970
Water Resources Master Plan	1,000,000	100,000	400,000	0	0	0	0	0	0	100,000	400,000	0	0
Water System Master Plan	700,000	0	0	350,000	0	0	0	0	0	0	0	350,000	0
Total of Water System Management	7,904,239	1,554,360	811,715	650,485	315,219	330,985	347,854	415,904	885,217	485,882	827,994	801,654	476,970

Town of Cary Capital Listing

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
WATER													
Water Treatment													
Cary/Apex Water Treatment Facility - Clearwell Repainting	175,000	100,000	75,000	0	0	0	0	0	0	0	0	0	0
Cary/Apex Water Treatment Facility - Laboratory Equipment - Atomic Adsorption Unit Replacement	468,608	175,000	0	0	0	0	0	293,608	0	0	0	0	0
Cary/Apex Water Treatment Facility - Laboratory Equipment - Total Organic Analyzer Replacement	127,500	50,000	0	0	0	0	0	0	77,500	0	0	0	0
Cary/Apex Water Treatment Facility - Phase IV Expansion and Improvements From 56 to 64 MGD	22,000,000	0	0	0	0	0	0	0	0	0	0	2,000,000	20,000,000
Cary/Apex Water Treatment Facility – Caustic Tank Replacements	600,000	0	0	0	0	600,000	0	0	0	0	0	0	0
Cary/Apex Water Treatment Facility - Centrifuge Rebuild and Repair	175,000	0	0	0	0	0	0	0	0	175,000	0	0	0
Cary/Apex Water Treatment Facility - Chemical Feed System Upgrades of Aging Equipment	200,000	0	0	0	200,000	0	0	0	0	0	0	0	0
Cary/Apex Water Treatment Facility - Clearwell Baffle Replacements	750,000	0	0	0	0	0	0	0	0	0	0	0	750,000
Cary/Apex Water Treatment Facility - Filter Pipe Gallery Piping Removal	150,000	0	0	150,000	0	0	0	0	0	0	0	0	0
Cary/Apex Water Treatment Facility - Finished Water and Backwash Pump Replacements	500,000	0	0	0	0	0	0	0	0	250,000	250,000	0	0
Cary/Apex Water Treatment Facility - Laboratory Information Management System	175,000	0	0	175,000	0	0	0	0	0	0	0	0	0
Cary/Apex Water Treatment Facility - Lake Aeration Mixing	3,926,000	3,726,000	200,000	0	0	0	0	0	0	0	0	0	0
Cary/Apex Water Treatment Facility - New Clearwell	5,400,000	650,000	4,750,000	0	0	0	0	0	0	0	0	0	0
Cary/Apex Water Treatment Facility - Ozone Generator Replacements	5,500,000	0	0	0	0	0	0	500,000	5,000,000	0	0	0	0
Cary/Apex Water Treatment Facility - Process Basin Rehab/Restoration	5,000,000	500,000	3,500,000	0	1,000,000	0	0	0	0	0	0	0	0
Cary/Apex Water Treatment Facility - Process Conversion to Ozone/Biofiltration	4,500,000	0	0	500,000	4,000,000	0	0	0	0	0	0	0	0
Cary/Apex Water Treatment Facility - Raw Water Line Cleaning	1,250,000	200,000	0	0	0	500,000	0	0	0	550,000	0	0	0
Cary/Apex Water Treatment Facility - Raw Water Pump Replacements	300,000	0	0	0	0	0	0	0	0	0	0	300,000	0
Cary/Apex Water Treatment Facility - Sodium Hypochlorite Tank Replacement	1,249,615	285,000	0	0	0	0	0	0	164,615	800,000	0	0	0
Total of Water Treatment	52,446,723	5,686,000	8,525,000	825,000	5,200,000	1,100,000	0	793,608	5,242,115	1,775,000	250,000	2,300,000	20,750,000
Total of All WATER	186,928,700	20,032,799	25,945,678	12,427,609	12,109,529	13,961,173	9,001,502	9,142,917	14,927,332	13,523,382	11,502,994	13,847,428	30,506,357

Total of Project Category from FY2017 Through FY2027 = 166,895,901

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Town of Cary Capital Listing

Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
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WATER

Grand Total for FY2017 = 91,379,654

SUMMARY INFORMATION

Grand Total from FY2017 Through FY2027 = 789,936,041

Town of Cary Capital Listing - Not Programmed/Not Planned Projects

Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
DOWNTOWN												
Community Projects												
DT - Downtown Soofa Benches	5,000	0	0	5,000	0	0	0	0	0	0	0	0
Total of Community Projects	5,000	0	0	5,000	0	0	0	0	0	0	0	0
Special Projects												
DT - Business Improvement District	1,050,399	700,399	0	0	350,000	0	0	0	0	0	0	0
Total of Special Projects	1,050,399	700,399	0	0	350,000	0	0	0	0	0	0	0
Total of All DOWNTOWN	1,055,399	700,399	0	5,000	350,000	0	0	0	0	0	0	0

Total of Project Category from FY2017 Through FY2027 = 355,000

Special Facilities												
Regional Public Safety Training Center	10,938,000	0	0	583,000	10,355,000	0	0	0	0	0	0	0
Total of Special Facilities	10,938,000	0	0	583,000	10,355,000	0	0	0	0	0	0	0
Total of All FIRE	10,938,000	0	0	583,000	10,355,000	0	0	0	0	0	0	0

Total of Project Category from FY2017 Through FY2027 = 10,938,000

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Town of Cary Capital Listing - Not Programmed/Not Planned Projects

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
GENERAL													
Community Projects													
Fiber Optics Cable Plan	4,100,000	100,000	0	1,000,000	0	0	3,000,000	0	0	0	0	0	0
Total of Community Projects	4,100,000	100,000	0	1,000,000	0	0	3,000,000	0	0	0	0	0	0
Special Facilities													
911/Emergency Communications Back-Up Center	3,800,000	0	0	750,000	3,050,000	0	0	0	0	0	0	0	0
Western Cary Police Station	9,250,000	0	0	0	0	0	0	0	0	0	0	0	9,250,000
Total of Special Facilities	13,050,000	0	0	750,000	3,050,000	0	0	0	0	0	0	0	9,250,000
Special Facilities for Operations													
Sand/Salt Storage Structures	250,000	0	125,000	125,000	0	0	0	0	0	0	0	0	0
West District Facility	6,500,000	0	0	1,000,000	5,500,000	0	0	0	0	0	0	0	0
Total of Special Facilities for Operations	6,750,000	0	125,000	1,125,000	5,500,000	0	0	0	0	0	0	0	0
Special Projects													
Aerial Topographic Mapping	800,000	300,000	0	0	350,000	50,000	0	0	50,000	0	0	50,000	0
Fiber Network Extension to South Cary Water Reclamation Facility and	30,000	0	30,000	0	0	0	0	0	0	0	0	0	0
Historic Town Facility Preservation	5,930,000	0	300,000	1,500,000	1,500,000	1,350,000	1,000,000	280,000	0	0	0	0	0

Town of Cary Capital Listing - Not Programmed/Not Planned Projects

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
GENERAL													
Town Facility Office Space Renovations	1,650,000	650,000	0	150,000	850,000	0	0	0	0	0	0	0	0
VoIP Telephone Replacement Project	165,000	0	165,000	0	0	0	0	0	0	0	0	0	0
Total of Special Projects	8,575,000	950,000	495,000	1,650,000	2,700,000	1,400,000	1,000,000	280,000	50,000	0	0	50,000	0
Storm Drainage													
Vacuum Jet Truck - Stormwater (New)	350,000	0	0	350,000	0	0	0	0	0	0	0	0	0
Van with CCTV - Stormwater (New)	250,000	0	0	250,000	0	0	0	0	0	0	0	0	0
Total of Storm Drainage	600,000	0	0	600,000	0	0	0	0	0	0	0	0	0
Total of All GENERAL	33,075,000	1,050,000	620,000	5,125,000	11,250,000	1,400,000	4,000,000	280,000	50,000	0	0	50,000	9,250,000

Total of Project Category from FY2017 Through FY2027 = 32,025,000

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Town of Cary Capital Listing - Not Programmed/Not Planned Projects

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
PARKS													
Acquisition - Land													
Coronado Village Due Diligence	1,610,000	0	95,000	150,000	150,000	520,000	10,000	610,000	15,000	15,000	15,000	15,000	15,000
Total of Acquisition - Land	1,610,000	0	95,000	150,000	150,000	520,000	10,000	610,000	15,000	15,000	15,000	15,000	15,000
Alternate Modes													
Skate Park Vert Ramp & Expansion	2,200,000	0	360,000	800,000	0	0	400,000	0	420,000	0	110,000	0	110,000
Total of Alternate Modes	2,200,000	0	360,000	800,000	0	0	400,000	0	420,000	0	110,000	0	110,000
Community Centers													
Herb Young Community Center Expansion	8,155,000	0	0	0	0	0	0	0	0	1,000,000	0	7,155,000	0
Total of Community Centers	8,155,000	0	0	0	0	0	0	0	0	1,000,000	0	7,155,000	0
Greenways													
Annie Jones Park/Greenway Improvements	450,000	0	0	100,000	0	350,000	0	0	0	0	0	0	0
Batchelor Branch Greenway - Phases II and III	3,300,000	0	300,000	1,200,000	0	0	0	1,800,000	0	0	0	0	0
Bishop's Gate Greenway - Phase II	350,000	0	350,000	0	0	0	0	0	0	0	0	0	0
Camp Branch (Churchill Estates) Greenway	1,000,000	0	0	0	0	0	1,000,000	0	0	0	0	0	0
Glenkirk Greenway - Phase II	1,200,000	0	0	0	0	0	0	0	0	200,000	0	1,000,000	0

Town of Cary Capital Listing - Not Programmed/Not Planned Projects

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
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PARKS

Greenway Road Crossings and Neighborhood Connections	8,100,000	0	2,200,000	0	0	1,200,000	1,200,000	0	1,750,000	0	1,750,000	0	0
Greenwood Circle Greenway	875,000	0	0	325,000	0	550,000	0	0	0	0	0	0	0
Hatcher Grove (Carpenter Village) Greenway	12,150,000	0	0	150,000	1,000,000	0	0	500,000	5,000,000	0	500,000	5,000,000	0
Higgins Greenway - Phase III	1,100,000	0	0	550,000	0	550,000	0	0	0	0	0	0	0
White Oak Creek Greenway Trailhead	250,000	185,000	65,000	0	0	0	0	0	0	0	0	0	0

Total of Greenways	28,775,000	185,000	2,915,000	2,325,000	1,000,000	2,650,000	2,200,000	2,300,000	6,750,000	200,000	2,250,000	6,000,000	0
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Parks

Athletic Field Conversion	200,000	0	0	0	0	0	0	200,000	0	0	0	0	0
Cameron Pond Neighborhood Park	6,150,000	0	100,000	750,000	0	5,300,000	0	0	0	0	0	0	0
Downtown Park - Future Phases	6,600,000	0	600,000	6,000,000	0	0	0	0	0	0	0	0	0
Downtown Park - Future Phases Master Plan	100,000	0	100,000	0	0	0	0	0	0	0	0	0	0
Park and Greenway Improvements	155,000	0	155,000	0	0	0	0	0	0	0	0	0	0
School/Park Projects	6,300,000	0	0	1,000,000	0	1,100,000	0	1,200,000	0	1,400,000	0	1,600,000	0

Town of Cary Capital Listing - Not Programmed/Not Planned Projects

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
PARKS													
TCAP - Lexie Lane Neighborhood Park Redevelopment	1,650,000	0	0	0	150,000	0	1,500,000	0	0	0	0	0	0
Twin Lakes Neighborhood Park (P-011)	6,300,000	0	0	0	300,000	3,000,000	3,000,000	0	0	0	0	0	0
Total of Parks	27,455,000	0	955,000	7,750,000	450,000	9,400,000	4,500,000	1,400,000	0	1,400,000	0	1,600,000	0
Parks - Community													
Mills Park - Future Phases	9,000,000	0	0	3,000,000	0	3,000,000	0	0	0	0	3,000,000	0	0
Total of Parks - Community	9,000,000	0	0	3,000,000	0	3,000,000	0	0	0	0	3,000,000	0	0
Public Art													
Public Art - Cameron Pond Park	60,000	0	0	10,000	0	50,000	0	0	0	0	0	0	0
Public Art - Cary Downtown Train Depot	40,000	0	0	0	0	40,000	0	0	0	0	0	0	0
Public Art - Cary Tennis Park	120,000	0	0	0	0	0	0	0	120,000	0	0	0	0
Public Art - Downtown Park	105,200	0	0	105,200	0	0	0	0	0	0	0	0	0
Public Art - Fire Station 9 - Walnut Street	110,000	0	110,000	0	0	0	0	0	0	0	0	0	0
Public Art - Harrison Avenue Bridge	400,000	0	0	0	50,000	0	350,000	0	0	0	0	0	0

Town of Cary Capital Listing - Not Programmed/Not Planned Projects

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
PARKS													
Public Art - Higgins Greenway Phase III	35,000	0	0	35,000	0	0	0	0	0	0	0	0	0
Public Art - Jack Smith Park	50,000	0	0	0	0	5,000	45,000	0	0	0	0	0	0
Public Art - Macedonia Lake Park	65,000	0	0	0	0	0	15,000	0	50,000	0	0	0	0
Public Art - Mills Park	64,000	0	64,000	0	0	0	0	0	0	0	0	0	0
Public Art - Morris Branch Park	65,000	0	65,000	0	0	0	0	0	0	0	0	0	0
Public Art - Sertoma Renovation	50,000	0	0	0	50,000	0	0	0	0	0	0	0	0
Public Art - TCAP - Walker Street Extension	639,507	100,000	0	0	0	0	0	0	20,000	519,507	0	0	0
Public Art - TCAP - Downtown Round-a-Bouts	220,000	0	0	0	20,000	200,000	0	0	0	0	0	0	0
Public Art - TCAP-Digital Arts Center	110,000	0	0	0	0	0	0	0	60,000	10,000	40,000	0	0
Public Art - USA Baseball Park	215,000	0	0	0	100,000	0	115,000	0	0	0	0	0	0
Public Art -TCAP-Cary Community Art Center Public Art Master Plan	165,000	0	0	0	0	0	0	0	15,000	150,000	0	0	0

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Town of Cary Capital Listing - Not Programmed/Not Planned Projects

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
PARKS													
Total of Public Art	2,513,707	100,000	239,000	150,200	220,000	295,000	525,000	0	265,000	679,507	40,000	0	0
Renovations - Park & Greenway													
Brooks Park /USA National Training Center Renovations	250,000	0	250,000	0	0	0	0	0	0	0	0	0	0
Green Hope Elementary School Park Improvements	597,000	47,000	0	0	0	0	150,000	400,000	0	0	0	0	0
MacDonald Woods Park Improvements - Phase II	600,000	0	0	60,000	540,000	0	0	0	0	0	0	0	0
Play Area Renovations	2,500,000	0	200,000	250,000	225,000	225,000	250,000	275,000	250,000	275,000	275,000	275,000	0
Sertoma Amphitheater Improvements	650,000	200,000	0	300,000	0	150,000	0	0	0	0	0	0	0
Sports Turf Field Development	5,200,000	0	300,000	2,700,000	2,200,000	0	0	0	0	0	0	0	0
Total of Renovations - Park & Greenway	9,797,000	247,000	750,000	3,310,000	2,965,000	375,000	400,000	675,000	250,000	275,000	275,000	275,000	0
Special Facilities													
Cary Tennis Park Court Renovations - Remaining 12 Courts	3,000,000	0	0	1,500,000	0	0	1,500,000	0	0	0	0	0	0
Cary Tennis Park Expansion	6,000,000	0	0	0	0	0	500,000	5,500,000	0	0	0	0	0
CF Ferrell Store Site	1,650,000	0	0	0	150,000	0	1,500,000	0	0	0	0	0	0
Hemlock Bluffs Nature Preserve	1,600,000	0	0	0	0	1,600,000	0	0	0	0	0	0	0

Town of Cary Capital Listing - Not Programmed/Not Planned Projects

Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	
PARKS													
SK8 Cary Improvements	634,000	75,000	75,000	0	110,000	0	132,000	0	110,000	0	132,000	0	0
Total of Special Facilities	12,884,000	75,000	75,000	1,500,000	260,000	1,600,000	3,632,000	5,500,000	110,000	0	132,000	0	0
Total of All PARKS	102,389,707	607,000	5,389,000	18,985,200	5,045,000	17,840,000	11,667,000	10,485,000	7,810,000	3,569,507	5,822,000	15,045,000	125,000

Total of Project Category from FY2017 Through FY2027 = 101,782,707

Town of Cary Capital Listing - Not Programmed/Not Planned Projects

Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
SEWER												
Reclaimed Water												
Extend Reclaimed Water Mains - FYs 2018, 2019, 2020	443,589	0	0	140,710	147,746	155,133	0	0	0	0	0	0
Total of Reclaimed Water	443,589	0	0	140,710	147,746	155,133	0	0	0	0	0	0
Waste Water Collection												
NCDOT TIP I-5506 Sewer Relocations	100,000	0	100,000	0	0	0	0	0	0	0	0	0
U-5501 Reedy Creek Rd. Sewerline Relocations	50,000	0	50,000	0	0	0	0	0	0	0	0	0
198 York Interceptor Improvements	1,800,000	1,650,000	150,000	0	0	0	0	0	0	0	0	0
Total of Waste Water Collection	1,950,000	1,650,000	300,000	0	0	0	0	0	0	0	0	0
Waste Water Treatment												
Western Wake Water Reclamation Facility - HVAC Replacement	27,500	0	27,500	0	0	0	0	0	0	0	0	0
Total of Waste Water Treatment	27,500	0	27,500	0	0	0	0	0	0	0	0	0
Total of All SEWER	2,421,089	1,650,000	327,500	140,710	147,746	155,133	0	0	0	0	0	0

Total of Project Category from FY2017 Through FY2027 = 771,089

Town of Cary Capital Listing - Not Programmed/Not Planned Projects

Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
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TRANSPORTATION

Alternate Modes

Aviation Parkway Sidewalk Reimbursement - NE Quad at I-40 Interchange	30,000	0	30,000	0	0	0	0	0	0	0	0	0
Cary Transit (C-Tran) Regional Transit Facility	7,000,000	0	7,000,000	0	0	0	0	0	0	0	0	0
S. Walker Street Sidewalk Improvement	470,000	0	470,000	0	0	0	0	0	0	0	0	0
Study: Train Horn Noise	500,000	0	0	0	0	0	0	0	0	0	0	500,000
Transit/Transportation Studies	750,000	0	0	0	200,000	0	0	250,000	0	0	300,000	0
Total of Alternate Modes	8,750,000	0	7,500,000	0	200,000	0	0	250,000	0	0	300,000	500,000

Control Systems

Baines Court Cul-de-sac Elimination	250,000	0	0	0	0	0	0	0	0	0	0	250,000
Davis Drive Queue Jump Lanes	1,000,000	0	0	0	0	0	0	0	0	0	0	1,000,000
Rapid Flashing Beacons at Pedestrian Crosswalks	100,000	0	0	0	0	0	0	0	0	0	0	100,000
Thoroughfare Street Lights	1,200,000	0	0	0	350,000	0	0	400,000	0	0	450,000	0
Traffic Calming	1,072,808	927,808	25,000	0	25,000	0	30,000	0	30,000	0	35,000	0
Traffic Signal Metal Mast Arm Conversion - Cary Glen Blvd and Green Level Church Road	280,000	0	0	0	0	0	0	0	0	0	0	280,000

Town of Cary Capital Listing - Not Programmed/Not Planned Projects

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
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TRANSPORTATION

Total of Control Systems	3,902,808	927,808	25,000	0	375,000	0	30,000	400,000	30,000	0	485,000	0	1,630,000
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Major Maintenance

Railroad Grade Crossing Repairs	1,650,000	0	0	0	150,000	600,000	0	0	0	200,000	700,000	0	0
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Total of Major Maintenance	1,650,000	0	0	0	150,000	600,000	0	0	0	200,000	700,000	0	0
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Road Capacity

Arthur Pierce Road Widening	4,150,000	0	0	0	0	0	0	0	0	0	0	0	4,150,000
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Buck Jones Roadway Reconfiguration	3,500,000	0	0	0	0	0	0	0	0	0	0	0	3,500,000
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Carpenter-Upchurch Road Widening	13,000,000	0	0	0	0	0	0	0	0	0	0	0	13,000,000
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Cary Parkway - Evans to Beechtree	30,000,000	0	0	0	0	0	0	0	0	3,000,000	5,000,000	22,000,000	0
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Davis Drive Bulbouts	3,000,000	0	0	0	0	0	0	0	0	0	0	0	3,000,000
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East Chatham Street Widening	9,500,000	0	0	0	0	0	0	0	0	1,000,000	2,500,000	6,000,000	0
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Evans Road Widening - Northern Section	14,000,000	0	0	0	0	0	0	0	0	0	0	0	14,000,000
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Forest Parkway Extension	3,750,000	0	0	0	0	0	0	0	0	0	0	0	3,750,000
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Green Hope School Road Widening	8,500,000	0	0	0	0	0	0	0	0	1,000,000	1,500,000	6,000,000	0
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Town of Cary Capital Listing - Not Programmed/Not Planned Projects

Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
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TRANSPORTATION

Green Level Church Road Widening - Morrisville Parkway to Green Level West Road	17,500,000	0	0	0	0	0	0	0	0	0	0	0	17,500,000
Green Level Church Widening - North of O'Kelly Chapel Road	9,500,000	0	0	0	0	0	0	0	0	0	0	0	9,500,000
Greenwood Circle Extension	5,250,000	0	0	0	0	0	0	0	0	0	0	0	5,250,000
Holly Springs Road Widening - Phase II (Cary Parkway to Penny Road)	14,500,000	0	0	0	0	0	0	0	0	0	0	0	14,500,000
Holly Springs Road Widening - Phase III (Penny Road to Ten Ten Road)	9,500,000	0	0	0	0	0	0	0	0	0	0	0	9,500,000
Holly Springs Road Widening - Phase IV (Ten Ten Road to Kildaire Farm Road)	17,000,000	0	0	0	0	0	0	0	0	0	0	0	17,000,000
Intersection Realignment Jenks-Carpenter Road/High House Road	12,500,000	0	0	0	0	0	500,000	2,000,000	10,000,000	0	0	0	0
Jenks-Carpenter Road Widening (Holt Road to High House Road)	7,500,000	0	0	0	0	0	0	0	1,000,000	1,500,000	5,000,000	0	0
Jones-Franklin Road Widening (North Side Only)	10,500,000	0	0	0	0	0	0	0	1,500,000	3,000,000	6,000,000	0	0
Kingston Ridge Road Extension	500,000	0	0	0	0	0	0	0	0	0	0	0	500,000
Louis Stephens Drive/Carpenter Upchurch Road Widening	6,450,000	0	0	0	0	0	950,000	500,000	5,000,000	0	0	0	0
Morrisville-Carpenter Road Widening - Davis Drive to Carpenter Fire Station Road	16,000,000	0	0	0	0	0	0	0	1,500,000	2,500,000	12,000,000	0	0

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Town of Cary Capital Listing - Not Programmed/Not Planned Projects

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
TRANSPORTATION													
North Harrison Avenue Interchange Improvements	7,250,000	0	0	0	0	0	0	0	0	0	0	0	7,250,000
Northeast Maynard Road Rail Road Bridge	27,000,000	0	0	0	0	0	0	0	0	0	0	0	27,000,000
O'Kelly Chapel Road Widening - NC 55 - Green Level Church Road (Developer Agreement)	6,750,000	0	0	0	0	0	0	0	0	750,000	2,000,000	4,000,000	0
Old Apex Road Improvements - Chatham Street to Extraterritorial Jurisdiction	16,000,000	0	0	0	0	0	0	0	0	1,500,000	3,000,000	11,500,000	0
Optimist Farm Road Widening - Pierce Olive Road to Bells Lake Road	4,500,000	0	0	0	0	0	0	0	0	0	0	0	4,500,000
202 Rail and Community Cohesion Impact Study - Harrison Avenue Grade Separation	15,165,000	665,000	0	0	0	0	0	0	0	0	0	0	14,500,000
Roundabout Conversion Project	1,400,000	0	0	0	0	0	0	0	0	0	0	0	1,400,000
TCAP - Chapel Hill Road Widening - Northeast Maynard Road to Northwest Maynard Road	35,000,000	0	0	0	0	0	0	0	4,000,000	13,000,000	18,000,000	0	0
TCAP - N. Harrison Avenue Rail Separation	150,000	0	0	0	0	0	0	0	0	0	0	0	150,000
TCAP - Walker Street Extension	33,261,190	7,200,632	0	0	0	0	0	1,000,000	2,000,000	23,060,558	0	0	0
Ten Ten Widening - Holly Springs Road to West Lake Road	11,250,000	0	0	0	0	0	0	0	0	0	0	0	11,250,000
Ten-Ten Road Widening - Kildaire Farm Road to Holly Springs Road	26,000,000	0	0	0	0	0	0	0	0	0	0	0	26,000,000

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Town of Cary Capital Listing - Not Programmed/Not Planned Projects

	Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
TRANSPORTATION													
Trenton Road Widening	21,000,000	0	0	0	0	0	0	0	0	0	0	0	21,000,000
Trinity Road Widening - Trenton Road to Chapel Hill Road	9,000,000	0	0	0	0	0	0	0	0	0	0	0	9,000,000
Trinity Road Widening and Extension	39,000,000	0	0	0	0	0	0	0	0	4,000,000	10,000,000	25,000,000	0
Wake Road Extension/Realignment to Kit Creek Road	7,250,000	0	0	0	0	0	0	0	0	0	0	0	7,250,000
Walnut Street Corridor Improvements - Phase V	7,500,000	0	0	0	0	0	0	0	0	0	0	0	7,500,000
Weldon Ridge Boulevard	1,500,000	0	0	0	0	0	0	0	0	0	0	0	1,500,000
West Chatham Street Widening - Old Apex Road to Old Apex Road	11,500,000	0	0	0	0	0	0	0	0	1,000,000	2,000,000	8,500,000	0
Total of Road Capacity	496,576,190	7,865,632	0	0	0	0	0	2,450,000	8,500,000	67,310,558	51,000,000	106,000,000	253,450,000
Special Facilities													
WakeMed Soccer Park - Trinity Road Extension	3,100,000	0	0	3,100,000	0	0	0	0	0	0	0	0	0
Total of Special Facilities	3,100,000	0	0	3,100,000	0	0	0	0	0	0	0	0	0
Total of All TRANSPORTATION	513,978,998	8,793,440	7,525,000	3,100,000	725,000	600,000	30,000	3,100,000	8,530,000	67,510,558	52,485,000	106,000,000	255,580,000

Total of Project Category from FY2017 Through FY2027 = 505,185,558

Town of Cary Capital Listing - Not Programmed/Not Planned Projects

Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
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WATER

Special Projects

Cary/Apex Water Treatment Facility - Fiber Network Extension NC55 and Jenks Road to Cary/Apex Water Treatment Facility	380,000	0	380,000	0	0	0	0	0	0	0	0	0
Total of Special Projects	380,000	0	380,000	0	0	0	0	0	0	0	0	0

Water Lines

Holt Road to Davis Drive Water Line Connection	2,321,500	1,920,000	401,500	0	0	0	0	0	0	0	0	0
McCrimmon Parkway Water Line Connector	1,250,000	0	0	0	0	0	1,250,000	0	0	0	0	0
NCDOT I-5506 I-40 and Aviation Parkway Water Line Relocation	175,000	0	175,000	0	0	0	0	0	0	0	0	0
NCDOT P-5201 Morrisville Parkway Rail Road Grade Separation	338,504	238,504	100,000	0	0	0	0	0	0	0	0	0
Old Apex Road Water Line Reinforcement	2,044,000	1,694,000	350,000	0	0	0	0	0	0	0	0	0
Ten-Ten/Bells Lake Road Water Line Connector	2,178,000	0	0	0	0	0	2,178,000	0	0	0	0	0
U-5501 Reedy Creek Rd. Waterline Relocations	50,000	0	50,000	0	0	0	0	0	0	0	0	0
Wake Road Water Line	500,000	0	0	0	0	0	500,000	0	0	0	0	0
Total of Water Lines	8,857,004	3,852,504	1,076,500	0	0	0	3,928,000	0	0	0	0	0

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Town of Cary Capital Listing - Not Programmed/Not Planned Projects

Project Total	Appropriations to Date	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
WATER												
Water Treatment												
Cary/Apex Water Treatment Facility - Phase III Expansion - 40 to 56 MGD	78,500,000	77,500,000	1,000,000	0	0	0	0	0	0	0	0	0
Total of Water Treatment	78,500,000	77,500,000	1,000,000	0	0	0	0	0	0	0	0	0
Total of All WATER	87,737,004	81,352,504	2,456,500	0	0	0	3,928,000	0	0	0	0	0

Total of Project Category from FY2017 Through FY2027 = 6,384,500

Grand Total on This Report	751,595,197	94,153,343	16,318,000	27,938,910	27,872,746	19,995,133	19,625,000	13,865,000	16,390,000	71,080,065	58,307,000	121,095,000	264,955,000
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Grand Total from FY2017 Through FY2027 = 657,441,854



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 shown 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.

PRIORITY BASED BUDGETING: Priority Based Budgeting is a leading best practice in local government that provides a comprehensive review of the entire organization, identifying every program offered, identifying the costs of every program, and evaluating the relevance of every program based on the goals the organization is trying to achieve.

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.

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

