

**Water & Sewer Authority of Cabarrus County**  
**Capital Improvement Plan FY 26-27 and Five Years Planning (expressed in million dollars)**  
**Projects With a Cost of \$1,000,000 or greater**

Proj ID#	Project	Description	Driver		Project Total	Total By Funding Source	Spent on Project to Date	Projected for Remainder of Budget Year FY 25-26	FY 26-27	FY 27-28	FY 28-29	FY 29-30	FY 30-31	FY 31-32
1	RRRWTP Remainder of Phase 3 to 30 MGD and Phase 4 to 34 MGD	Expansion to 30 MGD and 34 MGD	Capacity	a	\$ 175.907	\$ 32.273 \$ 102.190 \$ 30.147 \$ 11.296	\$ - \$ 92.920 \$ - \$ -	\$ 14.730 \$ 9.270	\$ 14.708	\$ 2.836				
2	Muddy Creek Expansion Progressive Design-Build	Expansion to .66 MGD	Capacity	a	\$ 21.320	\$ 10.835 \$ 10.485		\$ 2.132	\$ 8.703					
3	RRRWTP Modification to 36 MGD and Nutrient Removal Upgrades	Expansion from 34 MGD to 36 MGD and Nutrient Removal Facilities	Capacity / Regulatory	b	\$ 126.100	\$ 19.765 \$ 106.335		\$ 1.976	\$ 1.957 \$ 1.976	\$ 6.396 \$ 5.929	\$ 2.132 \$ 5.929	\$ 5.929 \$ 5.929	\$ 5.929 \$ 31.901	
4	RRRWTP Expansion to 45 MGD	Expansion from 36 MGD to 45 MGD	Capacity	c	\$ 359.500	\$ 359.500				\$ 17.975	\$ 35.950	\$ 89.875	\$ 89.875	\$ 89.875
5	Furnace Upgrades	New Quencher, Replace MCC-F, Upgrade Incinerator Controls and Burners, Replace Sodium Hydroxide Tanks	Condition / Regulatory	a	\$ 9.500	\$ 9.500			\$ 1.900	\$ 7.600				
6	Lower Rocky River Force Main Condition Assessment	Condition assessment of 25,300 ft. of 48-inch force main	Condition / Capacity		\$ 1.000	\$ 1.000			\$ 1.000					
7	RRRWTP Admin Building Expansion	Expansion of Admin Building for Additional Offices / Meeting Space	Capacity		\$ 1.500	\$ 1.500				\$ 1.500				
8	Lower Coddle Creek Parallel Interceptor	28,500 ft. of 36-inch and 48-inch beginning at the confluence of Coddle Creek and Rocky River	Capacity	d	\$ 31.770	\$ 31.770	\$ 13.537	\$ 9.000	\$ 9.233					
9	Rocky River Sewer Rehab - Highway 29 to Mecklenburg County Line	Inspection and rehab	Condition	d	\$ 5.580	\$ 5.580	\$ 0.403	\$ 1.553	\$ 3.624					
10	Back Creek Parallel Interceptor	7,900 ft. 36-inch to Hickory Ridge Road	Capacity	d	\$ 5.813	\$ 5.813	\$ 5.202	\$ 0.611						
11	Mt. Pleasant Force Main Upsizing	23,700 ft. 16-inch force main, existing WSACC pump stations to Highway 49	Capacity	a	\$ 10.495	\$ 10.495		\$ 0.393	\$ 0.393	\$ 4.855	\$ 4.854			
12	Wolf Meadow Branch Parallel Interceptor	2,500 ft. 24-inch sewer near upstream end of Wolf Meadow Branch, replace pipe under railroad tracks	Capacity		\$ 2.971	\$ 2.971		\$ 0.149	\$ 0.149	\$ 1.337	\$ 1.337			
13	ICV Kings Grant Interceptor Upsizing	Partial relocation and upsizing of existing 15-inch line north of Concord Mills Boulevard	Capacity / Condition		\$ 2.700	\$ 2.700		\$ 0.270	\$ 2.430					
14	Highland Creek 1 Parallel Interceptor	1,400 21-inch & 900 ft. 24-inch	Capacity		\$ 1.954	\$ 1.759 \$ 0.195			\$ 0.176 \$ 0.020	\$ 1.583 \$ 0.176				
15	Afton Run Parallel Interceptor	11,100 ft. 36-inch	Capacity		\$ 20.331	\$ 20.331		\$ 1.017	\$ 1.017	\$ 9.149	\$ 9.149			
16	Cold Water Creek Pump Station Upgrades	Upgrades to original mechanical components	Condition		\$ 1.000	\$ 1.000		\$ 0.150	\$ 0.850					
17	Rocky River Sewer Rehab - Highway 29 to Roberta Road	Inspection and rehab for 13,121 feet of existing 54", 6,290' of existing 48", and 6,342' of existing 30"	Condition		\$ 11.164	\$ 11.164				\$ 1.003	\$ 10.161			
18	Mt. Pleasant Pump Station 1 and 2 Expansion	Upgrade to 4.25 MGD Peak Capacity at both pump stations	Capacity		\$ 10.184	\$ 10.184						\$ 1.018	\$ 9.166	
19	Mt. Pleasant Manifolded Force Main Replacement	14,700 feet of 16-inch force main, Cold Springs Road to Cold Water Creek Interceptor	Capacity		\$ 6.776	\$ 6.776							\$ 0.339	\$ 0.339
							\$ 112.062	\$ 39.274	\$ 92.060	\$ 100.390	\$ 101.413	\$ 128.723	\$ 99.379	\$ 90.214
								Projected for Remainder of FY 26	\$ 39.274					
								Total for FY 27 - FY 32	\$ 612.180					

updated 2/6/26

(a) State grant appropriation FY 23-24

(b) Currently shown as Charlotte Water portion of estimated nutrient removal costs only. Charlotte Water may participate in capacity-related costs as well.

(c) RRRWWTP Expansion to 45 MGD is expected to have some Charlotte Water participation

(d) ARPA Funds

Funding sources for projects are for planning purposes only. Actual funding sources for the projects are subject to change based on circumstances and availability. Some projects (and funding needs) projected to start in 6-year window shown above and remain in progress beyond 6-year window shown above.

Proposed Funding Sources	
System Development Fees SDF	\$ 35.624
Charlotte Water Funded	\$ 39.067
WSACC Reserve Funds and Interest	\$ 25.810
Proposed Debt Financed WSACC	\$ 429.885
State Grants	\$ 81.794
<b>Total</b>	<b>\$ 612.180</b>

**FISCAL YEARS 2026 - 2028**  
**PROJECT CHARACTERISTICS – CIP PROJECT NO. 1**

**PROJECT NAME:** Rocky River Regional WWTP Remainder of Phase 3 to 30 MGD and Phase 4 to 34 MGD

**Proposed Funding Source(s):**

Charlotte Water
Debt Financing
State Grants
Reserve Funds and Interest

**DESCRIPTION OF PROJECT:** This project is the continuation of the progressive design-build effort for expansion of the Rocky River Regional WWTP to 30 MGD (Phase 3) and to 34 MGD (Phase 4).

**JUSTIFICATION:** Influent flow to the Rocky River Regional WWTP is increasing, along with continued flow acceptance requests and additional flow anticipated from Charlotte Water. Completing the expansion will lead to additional capacity at the RRRWWTP in response to increasing flows.

**PROJECT STATUS:** Construction is in progress. The estimated total cost for this work (including remaining Phase 3 funding and all Phase 4 funding) is \$175,907,000 in 2026 dollars.



**FISCAL YEARS 2026 - 2029**  
**PROJECT CHARACTERISTICS – CIP PROJECT NO. 2**

**PROJECT NAME: Muddy Creek WWTP Expansion Progressive Design-Build to 0.66 MGD**

**Proposed Funding Source(s):**

State Grants

**DESCRIPTION OF PROJECT:** This project consists of the progressive design-build effort for expansion of the Muddy Creek WWTP from 0.3 MGD to 0.66 MGD.

**JUSTIFICATION:** Influent flow to the Muddy Creek WWTP is increasing, along with continued interest in development in the Midland portion of the service area. Completing the expansion to 0.66 MGD will provide increased wastewater capacity in the Midland area.

**PROJECT STATUS:** The preferred design-build team is preparing a pre-construction services proposal for consideration by WSACC. Capital expenditures for this project are currently programmed into FY 2026-2029. The preliminary estimated cost for this work is \$21,320,000 in 2026 dollars.



**FISCAL YEARS 2027 - 2030  
PROJECT CHARACTERISTICS – CIP PROJECT NO. 3**

**PROJECT NAME: Rocky River Regional WWTP Modification to 36 MGD and Nutrient Removal Upgrades**

**Proposed Funding Source(s):**

Charlotte Water
Debt Financing

**DESCRIPTION OF PROJECT:** This project consists of the expansion and rerating of the Rocky River Regional WWTP to 36 MGD (Phase 5), along with associated nutrient removal upgrades for the entire 36 MGD plant as anticipated per updated speculative limits provided by DEQ.

**JUSTIFICATION:** Influent flow to the Rocky River Regional WWTP is increasing, along with continued flow acceptance requests. Completing expansion to 36 MGD will allow treatment of flows beyond 34 MGD (capacity following Phase 4 expansion) at the RRRWWTP in response to anticipated continued increases in flows. Nutrient removal requirements are anticipated per the updated speculative limits provided by DEQ.

**PROJECT STATUS:** Capital expenditures for this project are currently programmed into FY 2027-2030. The preliminary estimated cost for the expansion portion of this work is \$37,100,000, and the preliminary estimated cost for nutrient removal upgrades is \$89,000,000, for a total preliminary estimated cost of \$126,100,000 in 2026 dollars. The preliminary estimated Charlotte Water portion of the associated cost is \$19,765,000 (for nutrient removal costs only), with additional funding anticipated from Charlotte Water if they elect to participate in the additional capacity associated with this project.



**FISCAL YEARS 2028 - 2033**  
**PROJECT CHARACTERISTICS – CIP PROJECT NO. 4**

**PROJECT NAME:** Rocky River Regional WWTP Expansion to 45 MGD (Phase 6)

**Proposed Funding Source(s):**

Debt Financing

**DESCRIPTION OF PROJECT:** This project consists of the expansion of the Rocky River Regional WWTP to 45 MGD (Phase 6).

**JUSTIFICATION:** Influent flow to the Rocky River Regional WWTP is increasing, along with continued flow acceptance requests. Completing expansion to 45 MGD will allow treatment of flows beyond 36 MGD (capacity following Phase 5 expansion) at the RRRWWTP in response to anticipated continued increases in flows.

**PROJECT STATUS:** Capital expenditures for this project are currently programmed into FY 2028-2033. The preliminary estimated cost for this work is \$359,500,000 in 2026 dollars. Relative to the previous CIP, nutrient removal costs have been moved to CIP Project No. 3 per updated speculative limits provided by DEQ.



**FISCAL YEARS 2027 - 2028**  
**PROJECT CHARACTERISTICS – CIP PROJECT NO. 5**

**PROJECT NAME:** Rocky River Regional WWTP Furnace Upgrades

**Proposed Funding Source(s):**

State Grants

**DESCRIPTION OF PROJECT:** This project includes upgrades to the existing multiple hearth incinerator and associated features at the Rocky River Regional WWTP.

**JUSTIFICATION:** The multiple hearth incinerator at the RRRWWTP is original to the plant, with certain upgrades having been made over time related to emissions controls, chemical feed capabilities, etc. This project includes replacement of the existing quencher with a more robust and adjustable system, replacement of existing electrical MCC-F, upgrades of the incinerator controls and burners for improved efficiency and reliability, and replacement of aging sodium hydroxide tanks.

**PROJECT STATUS:** Capital expenditures for this project are currently programmed into FY 2027-2028. The preliminary estimated cost for this work is \$9,500,000 in 2026 dollars.



## FISCAL YEAR 2027 PROJECT CHARACTERISTICS – CIP PROJECT NO. 6

**PROJECT NAME:** Lower Rocky River Force Main Condition Assessment

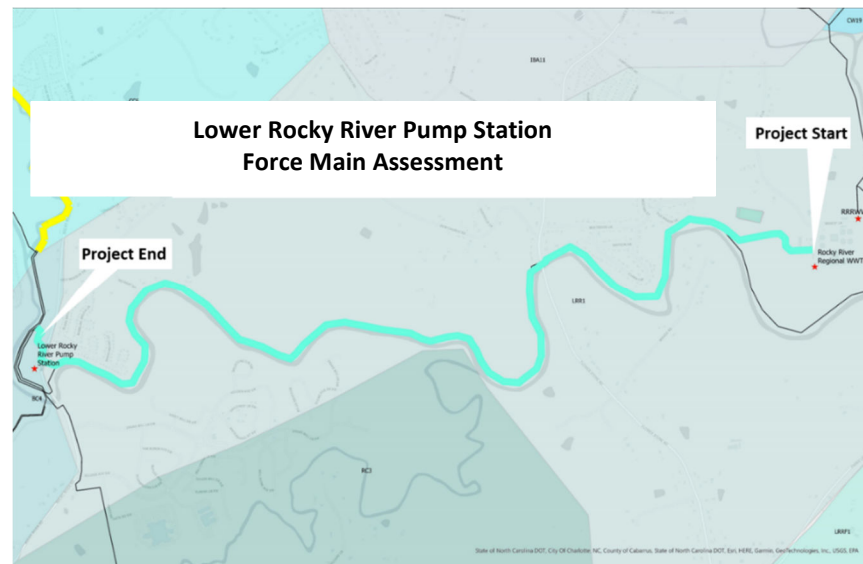
**Proposed Funding Source(s):**

Reserve Funds and Interest

**DESCRIPTION OF PROJECT:** The Lower Rocky River Force Main conveys flow from the western portions of Cabarrus County and from Charlotte Water to the RRRWWTP. This project includes assessment of the existing Lower Rocky River Force Main, including electromagnetic inspection to identify and quantify conditions of the reinforcing in the pipe, high-frequency pressure monitoring, leak and gas pocket detection, sonar profiling, and hydrogen sulfide monitoring.

**JUSTIFICATION:** This force main was installed in the early 2000's, and has been in continuous usage since that time. More than half of the influent flow to the RRRWWTP travels through this force main, and continued operation of this force main is vital to WSACC's conveyance of wastewater to the RRRWWTP for treatment. Correction of any substantial deficiencies will be incorporated into the RRRWWTP Expansion to 45 MGD.

**PROJECT STATUS:** Preliminary estimated costs are programmed into FY 2027. The Planning Level Cost Estimate for this work is \$1,000,000 in 2026 dollars.



## FISCAL YEAR 2028 PROJECT CHARACTERISTICS – CIP PROJECT NO. 7

**PROJECT NAME:** Rocky River Regional WWTP Admin Building Expansion

**Proposed Funding Source(s):**

Reserve Funds and Interest

**DESCRIPTION OF PROJECT:** The existing RRRWWTP Admin Building was originally built in the late 1970s, with various expansions and updates completed in the decades afterwards as the capacity and capabilities housed at the RRRWWTP have increased over time. This project would further expand the existing building to provide additional office space, meeting space, and storage areas as needed as the RRRWWTP and associated capacity / capabilities continues to expand into the future.

**JUSTIFICATION:** As the RRRWWTP continues to expand, additional office space, meeting spaces, and storage areas are needed.

**PROJECT STATUS:** Preliminary estimated costs are programmed into FY 2028. The Planning Level Cost Estimate for this work is \$1,500,000 in 2026 dollars.



**FISCAL YEARS 2026 – 2027**  
**PROJECT CHARACTERISTICS – CIP PROJECT NO. 8**

**PROJECT NAME:** Lower Coddle Creek Parallel Interceptor

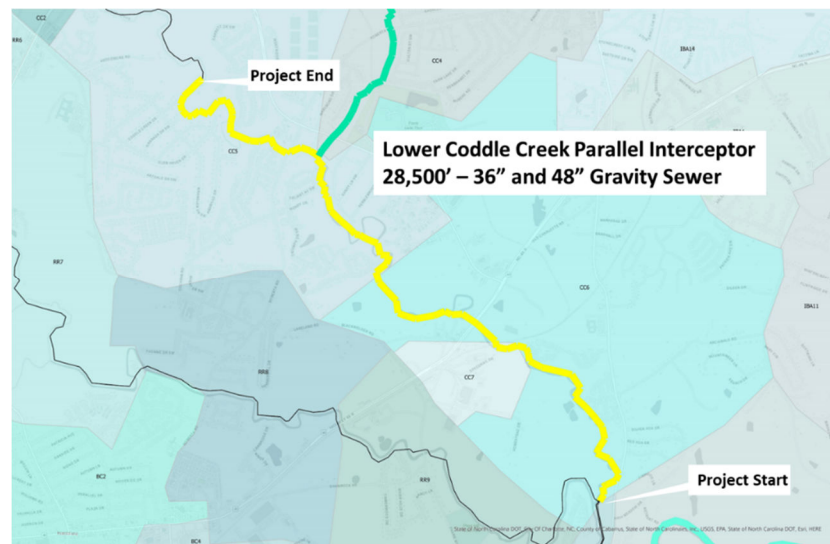
**Proposed Funding Source(s):**

State Grants

**DESCRIPTION OF PROJECT:** This project consists of approximately 28,500 linear feet of 36-inch and 48-inch gravity sewer parallel to the lower portion of the existing 30-inch Coddle Creek Interceptor in the Coddle Creek Basin. The project begins at the confluence of Coddle Creek and Rocky River where the existing Coddle Creek Interceptor combines with the Rocky River Interceptor just upstream of the Lower Rocky River Pump Station. The end of the project is located where the existing interceptor enlarges to a 36-inch interceptor.

**JUSTIFICATION:** This project will provide additional wastewater conveyance capacity to the Coddle Creek Basin to meet projected growth within the basin.

**PROJECT STATUS:** Construction is in progress. The estimated cost for this work is \$31,770,000 in 2026 dollars.



## FISCAL YEARS 2026 - 2027 PROJECT CHARACTERISTICS – CIP PROJECT NO. 9

**PROJECT NAME:** Rocky River Sewer Rehab – Highway 29 to Mecklenburg County Line

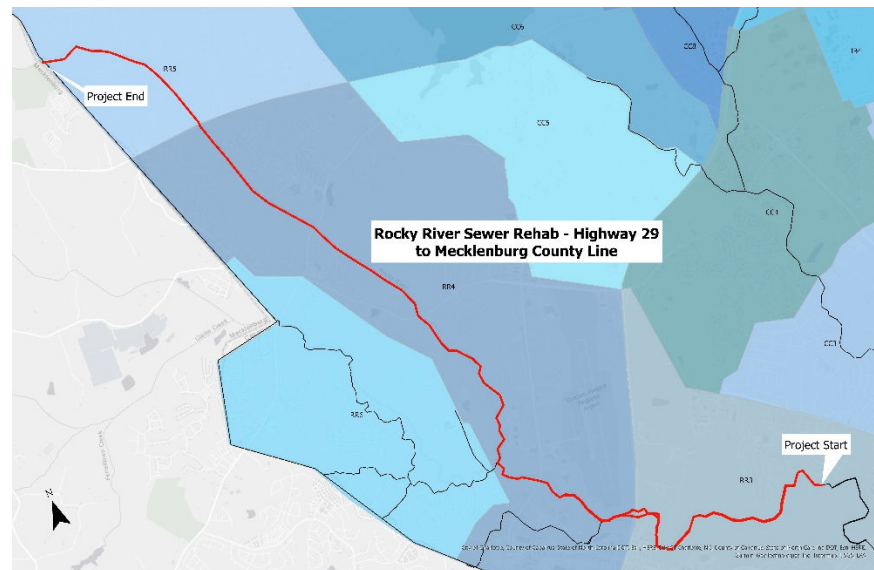
### Proposed Funding Source(s):

State Grants

**DESCRIPTION OF PROJECT:** This project consists of evaluation, inspection, and rehabilitation of the Rocky River Interceptor between the Highway 29 and the Mecklenburg County line to address inflow and infiltration.

**JUSTIFICATION:** This project was identified in the recent I&I Study by HDR, and is part of WSACC's continuing efforts to preserve wastewater conveyance and treatment capacity by removing inflow and infiltration to the extent possible.

**PROJECT STATUS:** This project is in the bid phase, with construction anticipated to start in Spring 2026. The estimated cost for this work is \$5,580,000 in 2025 dollars.



**FISCAL YEAR 2026  
PROJECT CHARACTERISTICS – CIP PROJECT NO. 10**

**PROJECT NAME:** Back Creek Parallel Interceptor

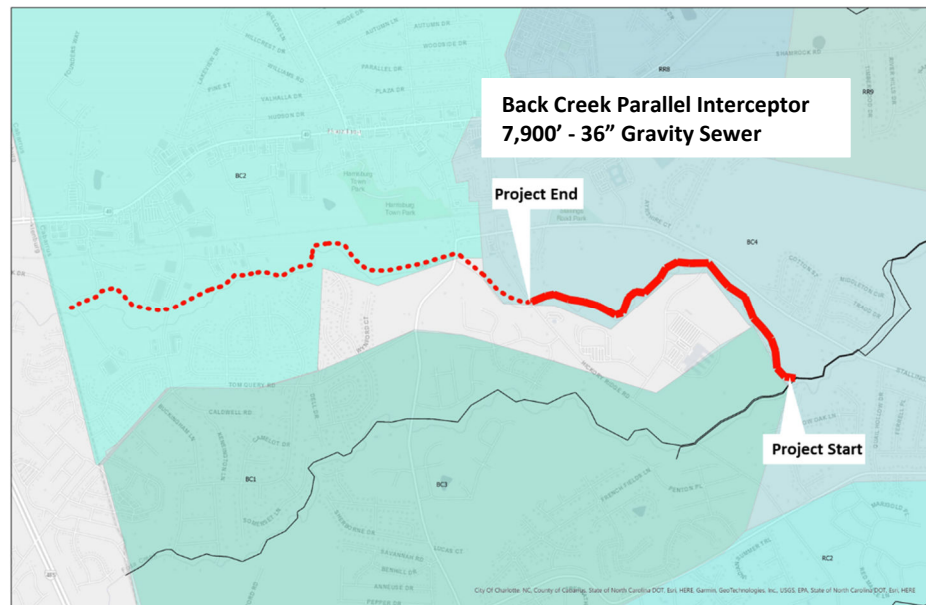
**Proposed Funding Source(s):**

State Grants

**DESCRIPTION OF PROJECT:** This project consists of 7,900 linear feet of 36-inch gravity sewer line parallel to the existing 12-inch sewer. The parallel sewer is sized to accommodate projected growth through 2050 in Cabarrus County and to convey anticipated 2050 flows from Mecklenburg County in coordination with the planned diversion of flow by Charlotte Water into the WSACC collection system in the future.

**JUSTIFICATION:** This project will provide additional conveyance capacity to the Back Creek Basin within Cabarrus County and will upgrade this section of the interceptor with additional capacity to serve Charlotte Water projects to meet future projected wastewater flows.

**PROJECT STATUS:** Closeout paperwork is in progress. The estimated cost for this work is \$5,813,000 in 2026 dollars.



**FISCAL YEARS 2026 - 2029**  
**PROJECT CHARACTERISTICS – CIP PROJECT NO. 11**

**PROJECT NAME: Mt. Pleasant Pump Station 1 and 2 Force Main Upsizing**

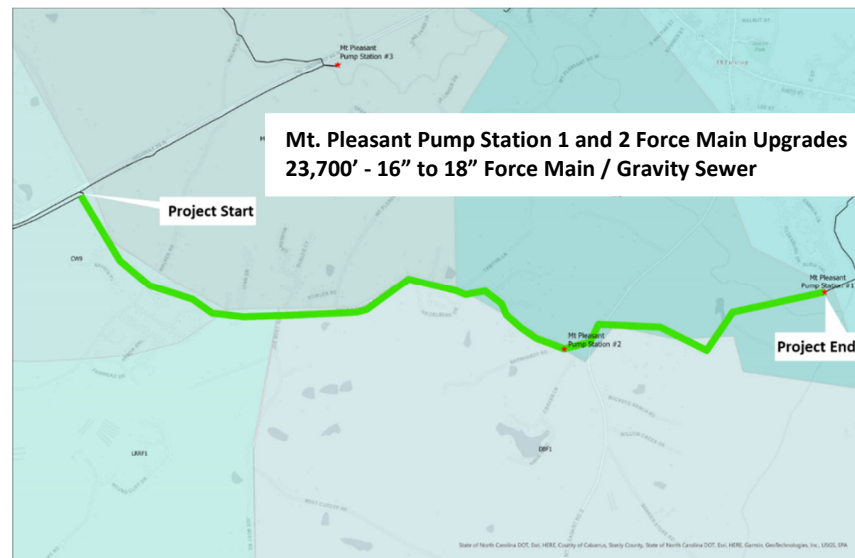
**Proposed Funding Source(s):**

State Grants

**DESCRIPTION OF PROJECT:** This project consists of replacing 23,700 linear feet of existing force main with 16-inch force main and 200 feet of 18-inch gravity sewer to provide additional capacity from the two upstream WSACC pump stations. The project begins at the confluence of the existing 8-inch and 12-inch force mains, and extends upstream to WSACC's Mt. Pleasant Pump Station #1, replacing the existing 8-inch force mains.

**JUSTIFICATION:** This project will provide additional conveyance capacity to the Dutch Buffalo Creek Basin to account for projected wet weather flow and anticipated additional connections in the future.

**PROJECT STATUS:** A design-build RFQ process is in progress for this project. Preliminary estimated costs for this project are programmed in FY 2026-2029. The Planning Level Cost Estimate for this work is \$10,495,000 in 2026 dollars.



**FISCAL YEARS 2026 - 2029**  
**PROJECT CHARACTERISTICS – CIP PROJECT NO. 12**

**PROJECT NAME: Wolf Meadow Branch Parallel Interceptor**

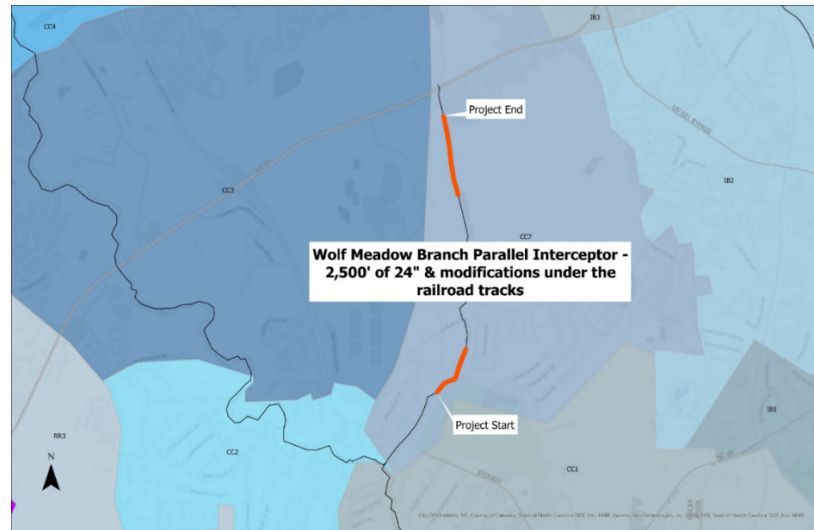
**Proposed Funding Source(s):**

System Development Fees

**DESCRIPTION OF PROJECT:** This project consists of the installation of 2,500 linear feet of 24-inch gravity sewer to serve additional major users expected in the Wolf Meadow Branch Basin, along with replacing a segment of pipe that runs under nearby railroad tracks for better conveyance characteristics overall. The project begins south of Concord Parkway (Highway 29) and extends along Wolf Meadow Branch where it terminates near Farmwood Boulevard.

**JUSTIFICATION:** This project will provide additional conveyance capacity to the Wolf Meadow Branch Basin in anticipation of additional major users (commercial and industrial development) within this basin. The project will also address a hydraulic issue at the railroad crossing.

**PROJECT STATUS:** Preliminary estimated costs for this project are programmed in FY 2026 – 2029. The Planning Level Cost Estimate for this work is \$2,971,000 in 2026 dollars.



**FISCAL YEAR 2026 - 2027  
PROJECT CHARACTERISTICS – CIP PROJECT NO. 13**

**PROJECT NAME: ICV Kings Grant Interceptor Upsizing**

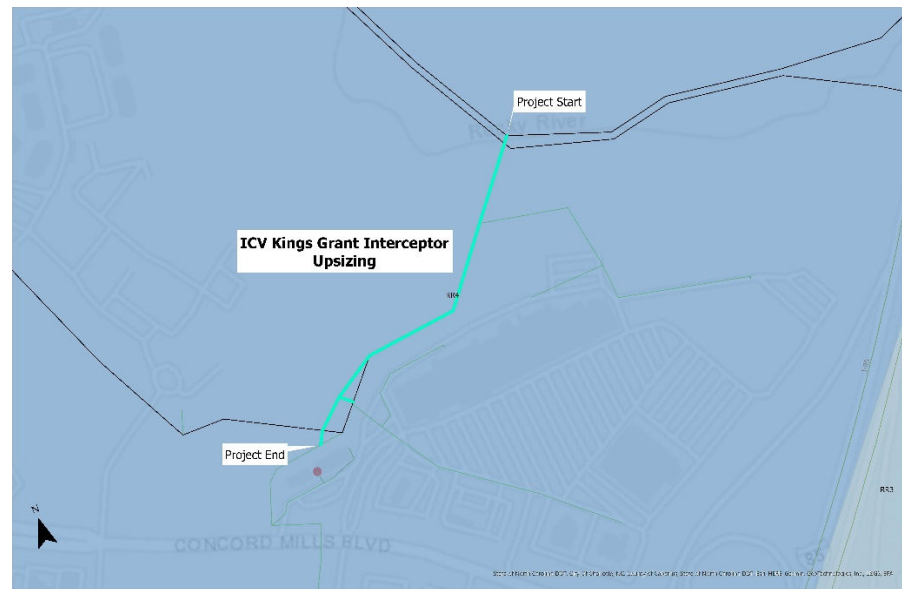
**Proposed Funding Source(s):**

System Development Fees

**DESCRIPTION OF PROJECT:** This project consists of partial relocation and upsizing of the existing 15-inch ICV Kings Grant Interceptor as flows continue to increase in this area.

**JUSTIFICATION:** This project will provide additional wastewater conveyance capacity to the Concord Mills area, and will address corrosive conditions in the existing system.

**PROJECT STATUS:** Preliminary estimated costs are programmed into FY 2026 - 2027. The Planning Level Cost Estimate for this work is \$2,700,000 in 2026 dollars.



**FISCAL YEAR 2027 - 2028  
PROJECT CHARACTERISTICS – CIP PROJECT NO. 14**

**PROJECT NAME:** Highland Creek 1 Parallel Interceptor

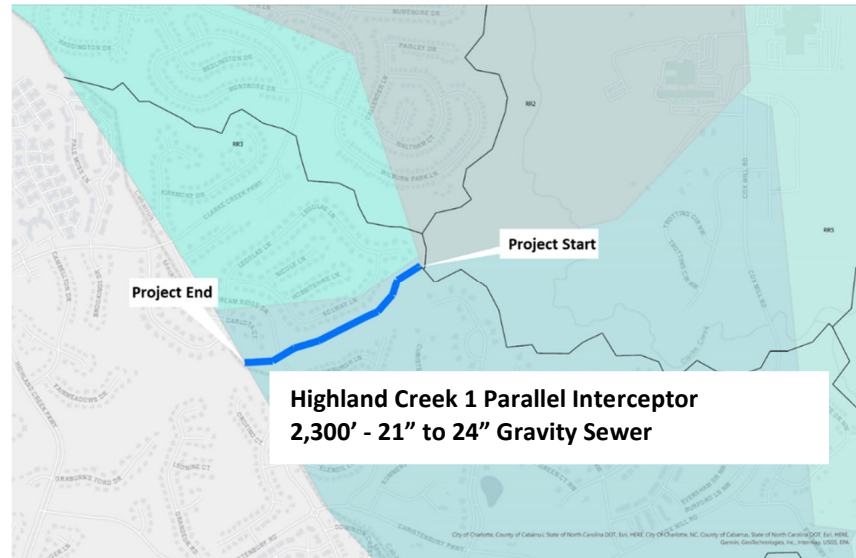
**Proposed Funding Source(s):**

Charlotte Water
System Development Fees

**DESCRIPTION OF PROJECT:** This project consists of installing 2,300 linear feet of 21-inch to 24-inch gravity sewer in areas currently served by the 15-inch Highland Creek sewer as flows continue to increase in this area.

**JUSTIFICATION:** This project will provide additional wastewater conveyance capacity to the Highland Creek Basin to meet projected growth within the affected portion of the Charlotte Water and Concord service areas.

**PROJECT STATUS:** Preliminary estimated costs are programmed into FY 2027 - 2028. The Planning Level Cost Estimate for this work is \$1,954,000 in 2026 dollars.



**FISCAL YEARS 2026 - 2029**  
**PROJECT CHARACTERISTICS – CIP PROJECT NO. 15**

**PROJECT NAME:** Afton Run Parallel Interceptor

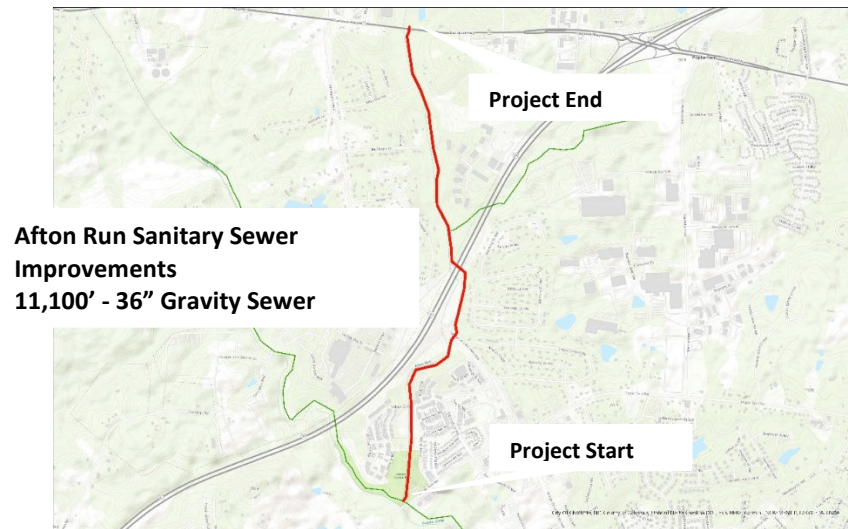
**Proposed Funding Source(s):**

System Development Fees

**DESCRIPTION OF PROJECT:** This project consists of installing 11,100 linear feet of 36-inch gravity sewer in the area currently served by existing 15-inch and 18-inch diameter sewer. The sewer flows include projected growth in future industrial flows.

**JUSTIFICATION:** These projects will provide additional wastewater conveyance capacity to the Afton Run Basin to meet projected growth and impacts from projected storm events.

**PROJECT STATUS:** Preliminary estimated costs are programmed into FY 2026 - 2029. The Planning Level Cost Estimate for this project is \$20,331,000. All planning level cost estimates are presented in 2026 dollars.



**FISCAL YEARS 2026 - 2027**  
**PROJECT CHARACTERISTICS – CIP PROJECT NO. 16**

**PROJECT NAME:** Cold Water Creek Pump Station Upgrades

**Proposed Funding Source(s):**

Reserve Funds and Interest

**DESCRIPTION OF PROJECT:** This project consists of replacing mechanical components within the pumping station that are key to its operation, coating concrete and steel surfaces, and cleaning the wetwell. A portion of the work will also include bypass pumping while construction crews perform the rehabilitation work.

**JUSTIFICATION:** This project will provide the necessary mechanical and structural rehabilitation of the pump station, based on its useful service life, and will allow for the continued successful operation of the facility.

**PROJECT STATUS:** Preliminary estimated costs are programmed into FY 2026 - 2027. The Planning Level Cost Estimate for this project is \$1,000,000. All planning level cost estimates are presented in 2026 dollars.



**FISCAL YEARS 2028 - 2029**  
**PROJECT CHARACTERISTICS – CIP PROJECT NO. 17**

**PROJECT NAME:** Rocky River Sewer Rehab – Highway 29 to Roberta Road

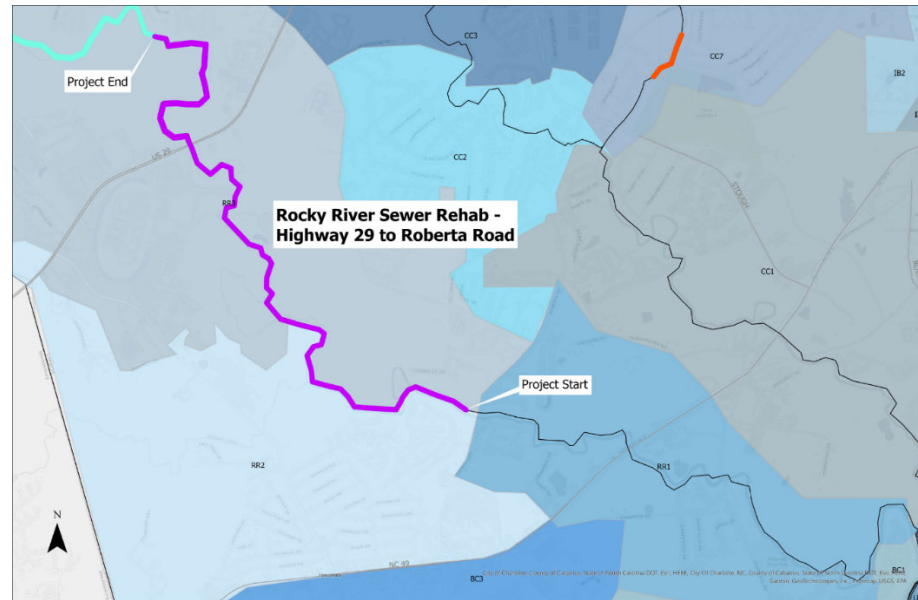
**Proposed Funding Source(s):**

Reserve Funds and Interest

**DESCRIPTION OF PROJECT:** This project consists of evaluation, inspection, and rehabilitation of the Rocky River Interceptor between Highway 29 and Roberta Road to address inflow and infiltration.

**JUSTIFICATION:** This project was identified in the recent I&I Study by HDR, and is part of WSACC’s continuing efforts to preserve wastewater conveyance and treatment capacity by removing inflow and infiltration to the extent possible.

**PROJECT STATUS:** Preliminary estimated costs are programmed into FY 2028 - 2029. The Planning Level Cost Estimate for this project is \$11,164,000. All planning level cost estimates are presented in 2026 dollars.



**FISCAL YEARS 2030 - 2031**  
**PROJECT CHARACTERISTICS – CIP PROJECT NO. 18**

**PROJECT NAME: Mt. Pleasant Pump Station 1 and 2 Expansion**

**Proposed Funding Source(s):**

System Development Fees

**DESCRIPTION OF PROJECT:** This project consists of upgrading Mt. Pleasant Pump Stations 1 and 2 to 4.25 MGD peak capacity each.

**JUSTIFICATION:** This project will provide additional conveyance capacity to the Dutch Buffalo Creek Basin to account for projected wet weather flow and anticipated additional connections in the future.

**PROJECT STATUS:** Preliminary estimated costs for this project are programmed in FY 2030-2031. The Planning Level Cost Estimate for this work is \$10,184,000 in 2026 dollars.



**FISCAL YEARS 2031 - 2034**  
**PROJECT CHARACTERISTICS – CIP PROJECT NO. 19**

**PROJECT NAME:** Mt. Pleasant Manifolded Force Main Replacement

**Proposed Funding Source(s):**

System Development Fees

**DESCRIPTION OF PROJECT:** This project consists of replacing 14,700 linear feet of existing force main with 16-inch force main to provide additional capacity from the upstream WSACC pump stations. The project begins at Cold Springs Road and extends to the Cold Water Creek Interceptor, replacing the existing 12-inch force main.

**JUSTIFICATION:** This project will provide additional conveyance capacity to account for projected wet weather flow and anticipated additional connections in the future.

**PROJECT STATUS:** Preliminary estimated costs for this project are programmed in FY 2031-2034. The Planning Level Cost Estimate for this work is \$6,776,000 in 2026 dollars.

