

# Capital Improvement Program 2019-2024 Fayetteville Public Works Commission

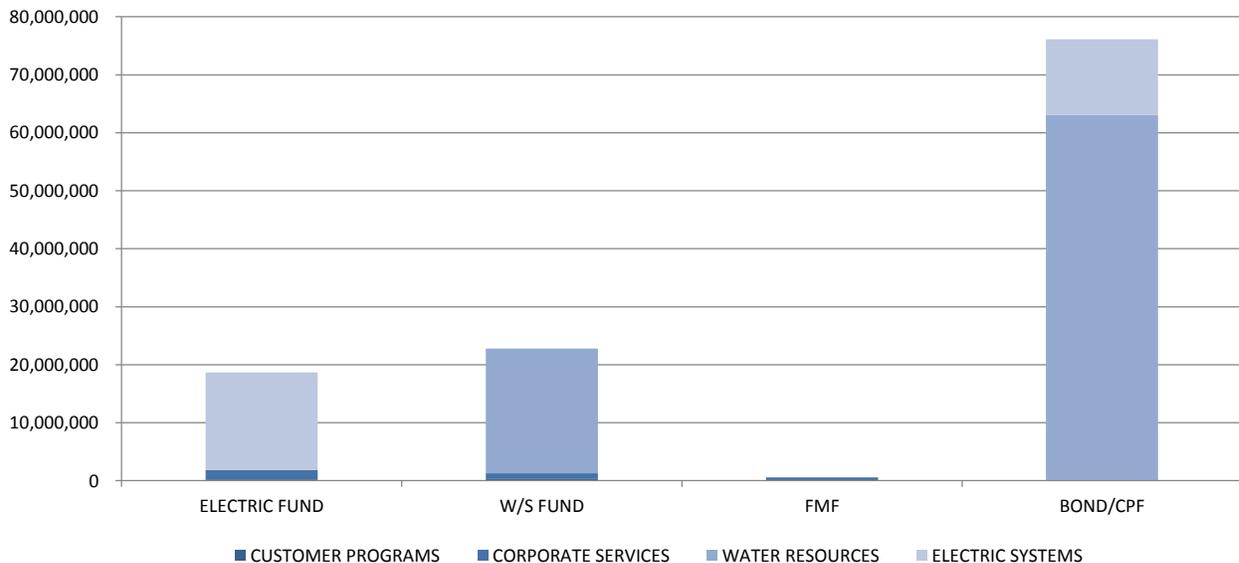


**PWC**  
Fayetteville's  
HOME TOWN UTILITY

# CIP BY CATEGORY ALL FUNDS

DIVISION	ACCOUNT	ELECTRIC FUND	W/S FUND	ELECTRIC & W/S FUNDS	FMF	BOND FUND / NC STATE LOAN / CPF	TOTAL ALL FUNDS
<b>CUSTOMER PROGRAMS</b>	ELECTRIC DISTRIBUTION	235,000		235,000			235,000
	WATER DISTRIBUTION		296,000	296,000			296,000
	<b>TOTAL CUSTOMER PROGRAMS</b>	<b>235,000</b>	<b>296,000</b>	<b>531,000</b>			<b>531,000</b>
<b>CORPORATE SERVICES</b>	STRUCTURES & IMPROVEMENTS	1,617,500	967,500	2,585,000	600,000		3,185,000
	<b>TOTAL CORPORATE SERVICES</b>	<b>1,617,500</b>	<b>967,500</b>	<b>2,585,000</b>	<b>600,000</b>	-	<b>3,185,000</b>
<b>WATER RESOURCES</b>	LAND & LAND RIGHTS-W/S		38,000	38,000		-	38,000
	WATER DISTRIBUTION		7,609,000	7,609,000		11,079,000	18,688,000
	SANITARY SEWER COLLECTION		9,945,000	9,945,000		43,934,000	53,879,000
	GLENVILLE LAKE PLANT		1,340,000	1,340,000		-	1,340,000
	P.O. HOFFER WATER PLANT		1,268,000	1,268,000		1,081,000	2,349,000
	CROSS CREEK TRMT. PLANT		0	0		3,890,000	3,890,000
	ROCKFISH TRMT. PLANT		1,330,000	1,330,000		3,080,000	4,410,000
<b>TOTAL WATER RESOURCES</b>		<b>21,530,000</b>	<b>21,530,000</b>	<b>21,530,000</b>		<b>63,064,000</b>	<b>84,594,000</b>
<b>ELECTRIC SYSTEMS</b>	LAND & LAND RIGHTS-ELEC	50,000		50,000		-	50,000
	GENERATION PLANT	55,000		55,000		-	55,000
	TRANSMISSION PLANT	1,775,000		1,775,000		100,000	1,875,000
	DISTRIBUTION PLANT	14,160,000		14,160,000		12,975,000	27,135,000
	TELECOM-CABLE INFRASTRUCTURE	400,000		400,000		-	400,000
	COMMUNICATIONS EQUIPMENT	400,000		400,000		-	400,000
<b>TOTAL ELECTRIC SYSTEMS</b>	<b>16,840,000</b>		<b>16,840,000</b>		<b>13,075,000</b>	<b>29,915,000</b>	
<b>TOTAL CIP</b>		<b>18,692,500</b>	<b>22,793,500</b>	<b>41,486,000</b>	<b>600,000</b>	<b>76,139,000</b>	<b>118,225,000</b>

**FY 2019 CIP FUNDING SOURCE BY DIVISION**



# PROJECT FUNDING SUMMARY

REF. #	2019 PROJECT LISTING	ELECTRIC FUND	W/S FUND	FMF	BOND FUND / NC DOT RESERVE / CPF	TOTAL
<b>CUSTOMER PROGRAMS</b>						
CP 1	Electric Meters and Metering Equipment	235,000	-	-	-	235,000
	<b>ELECTRIC DISTRIBUTION</b>	<b>235,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>235,000</b>
CP 2	Water Meters	-	296,000	-	-	296,000
	<b>WATER DISTRIBUTION</b>	<b>-</b>	<b>296,000</b>	<b>-</b>	<b>-</b>	<b>296,000</b>
	<b>TOTAL CUSTOMER PROGRAMS</b>	<b>235,000</b>	<b>296,000</b>	<b>-</b>	<b>-</b>	<b>531,000</b>
<b>CORPORATE SERVICES</b>						
CS 1	Robert C. Williams Business Center Upfit	-	-	-	-	-
CS 2	R C Williams Roof Replacement	50,000	-	-	-	50,000
CS 3	Multipurpose Building	-	-	-	-	-
CS 4	Upgrade Warehouse Yard	320,000	320,000	-	-	640,000
CS 5	Replace Operations Building Roof	600,000	-	-	-	600,000
CS 6	Replace Warehouse Roof	-	-	-	-	-
CS 7	Replace Administration Building Roof	-	-	-	-	-
CS 8	OMS Software and Implementation	437,500	437,500	-	-	875,000
CS 9	IS DR Solution	210,000	210,000	-	-	420,000
CS 10	Fleet Bay Expansion	-	-	600,000	-	600,000
	<b>STRUCTURES &amp; IMPROVEMENTS</b>	<b>1,617,500</b>	<b>967,500</b>	<b>600,000</b>	<b>0</b>	<b>3,185,000</b>
	<b>TOTAL CORPORATE SERVICES</b>	<b>1,617,500</b>	<b>967,500</b>	<b>600,000</b>	<b>0</b>	<b>3,185,000</b>
<b>WATER RESOURCES</b>						
WS 1	Land and Land Rights - Water	-	19,000	-	-	19,000
WS 57	Land and Land Rights - Sewer	-	19,000	-	-	19,000
	<b>LAND &amp; LAND RIGHTS</b>	<b>-</b>	<b>38,000</b>	<b>-</b>	<b>-</b>	<b>38,000</b>
WS 2	New Water Service Laterals and Water Main Extensions	-	618,000	-	-	618,000
WS 3	Water Lateral Renewals (PWC Forces)	-	970,000	-	-	970,000
WS 4	New Hydrant and Valve Installation	-	122,000	-	-	122,000
WS 5	Water Distribution System Rehabilitation	-	-	-	5,500,000	5,500,000
WS 6	NCDOT B-4491 Bridge # 22 Replacement, NC 59 over I-95 Bu	-	20,000	-	-	20,000
WS 7	NCDOT U-6072 SR1112 (Rockfish Rd) from Strickland Bridge	-	-	-	-	-
WS 8	North Fayetteville Water System Improvements	-	-	-	430,000	430,000
WS 9	NCDOT U-6073 Fisher Rd. from Strickland Bridge Rd. to NC16	-	-	-	-	-
WS 10	Market House Water Main Replacement	-	522,000	-	-	522,000
WS 11	Braxton Road 12" Water Main Extension	-	-	-	-	-
WS 12	Phase V Annexation - Water Main Extension	-	-	-	174,000	174,000
WS 13	COF - Storm Water Utility Improvements for City of Fayetteville	-	773,000	-	-	773,000
WS 14	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oaks Dr	-	625,000	-	-	625,000
WS 15	NCDOT W-5601FO Roundabout at Baywood Rd. and Murphy F	-	215,000	-	-	215,000
WS 16	Replace Existing Water Mains not Encased Under Railroad Crc	-	980,000	-	-	980,000
WS 18	City of Fayetteville Legend Avenue Extension Water	-	79,000	-	-	79,000
WS 19	Utility Improvements for the NCDOT Resurfacing and Stormwa	-	90,000	-	-	90,000
WS 20	Utility Improvements for the Town of Hope Mills Stormwater Im	-	380,000	-	-	380,000
WS 21	Chicken Foot Road 16" Water Main Interconnect	-	200,000	-	-	200,000
WS 22	West Fayetteville Pressure Zone Improvements	-	-	-	-	-
WS 23	Russell St Water Main Replacement, Gillespie to Eastern	-	-	-	130,000	130,000
WS 24	Sandhill Road 12" Water Main Extension	-	-	-	-	-
WS 25	High Pressure Zone Transmission Water Main Improvements	-	-	-	-	-
WS 29	NCDOT B-4490, Bridge # 116 Replacement, over CSX RR, & t	-	25,000	-	-	25,000
WS 30	NCDOT U2519CB Fay Outer Lp WM Relocation	-	10,000	-	600,000	610,000
WS 31	COF - Ann Street Bridge - Water Replacement	-	365,000	-	-	365,000
WS 33	NCDOT U-2519C A/B-5516 Fayetteville Outer Loop South of C	-	20,000	-	-	20,000
WS 34	NCDOT U-2519B A/BB Fayetteville Outer Loop from South of L	-	15,000	-	-	15,000
WS 35	NCDOT U-4403 Ramsey Street Widening - Water	-	800,000	-	-	800,000
WS 36	NCDOT U-4404 Cliffdale Road Widening - Water	-	80,000	-	-	80,000
WS 37	NCDOT U-4900 Murchison Road Widening - Water	-	80,000	-	-	80,000
WS 38	NCDOT U-5101 Shaw Rd to Stacey Weaver Dr Widening - Wa	-	-	-	-	-

# PROJECT FUNDING SUMMARY

REF. #	2019 PROJECT LISTING	ELECTRIC FUND	W/S FUND	FMF	BOND FUND / NC DOT RESERVE / CPF	TOTAL
WS 39	NCDOT U-5798 Gillis Hill Road Widening - Water	-	130,000	-	-	130,000
WS 40	NCDOT U-3422 Camden Rd Widening - Water	-	130,000	-	-	130,000
WS 41	COF Louise Street Water Relocation	-	15,000	-	-	15,000
WS 42	US HWY 401 North Water Improvements	-	-	-	3,230,000	3,230,000
WS 43	Hurricane Matthew Improvement of Water Facilities	-	-	-	345,000	345,000
WS 47	City of Fayetteville Martindale Dr. City Storm Drain Improvermer	-	295,000	-	-	295,000
WS 48	Cliffdale Road Transmission Water Main Improvements	-	-	-	-	-
WS 49	NCDOT U-2519A A/AB - Fayetteville Outer Loop from South of	-	20,000	-	-	20,000
WS 50	NCDOT U-4414 - All American Freeway Widening from Owen I	-	-	-	-	-
WS 51	Gillespie Street Water Main Replacement	-	-	-	-	-
WS 52	Glenville Water Main Replacement, Filter Plant to Coley	-	30,000	-	-	30,000
WS 53	Cottonade Water Main Replacement	-	-	-	55,000	55,000
WS 54	Scottsdale Water Main Replacement	-	-	-	615,000	615,000
WS 55	NCDOT U-4709 Rockfish Road, Golfview Drive to NC 59 - Wat	-	-	-	-	-
<b>WATER DISTRIBUTION</b>		-	<b>7,609,000</b>	-	<b>11,079,000</b>	<b>18,688,000</b>
WS 58	New Sewer Service Laterals and Sewer Main Extensions	-	500,000	-	-	500,000
WS 59	Sewer Lateral Renewals (PWC Forces)	-	825,000	-	-	825,000
WS 60	City of Fayetteville - Legend Avenue Extension Sewer	-	104,000	-	-	104,000
WS 61	Utility Improvements for the NCDOT Resurfacing and Stormwa	-	10,000	-	-	10,000
WS 62	Utility Improvements for the Town of Hope Mills Stormwater Imp	-	160,000	-	-	160,000
WS 63	Phase V Annexation	-	-	-	19,744,000	19,744,000
WS 64	Carver's Creek (North Fayetteville) Sewer Line	-	-	-	4,405,000	4,405,000
WS 65	NCDOT B-4491 Bridge # 22 Replacement, NC 59 over I-95 Bus	-	15,000	-	-	15,000
WS 66	Lift Station Wet Well Rehabilitation - North Fayetteville & Cypre	-	-	-	180,000	180,000
WS 67	Ann Street Sewer Relocation (Aerial Crossing)	-	365,000	-	-	365,000
WS 68	COF Louise Street Sewer Relocation	-	15,000	-	-	15,000
WS 69	NCDOT U-6073 Fisher Rd. from Strickland Bridge Rd. to NC16	-	-	-	-	-
WS 70	COF Storm Sewer Utility Improvements for City of Fayetteville	-	729,000	-	-	729,000
WS 71	NCDOT B-4490, Bridge #116 Replacement, over CSX RR & Hi	-	60,000	-	-	60,000
WS 72	NCDOT U-2519C A/B-5516 Fayetteville Outer Loop South of C	-	20,000	-	-	20,000
WS 73	NCDOT U-2519B A/BB Fayetteville Outer Loop from South of L	-	10,000	-	-	10,000
WS 74	Clifton Drive Sewer Main Relocation	-	-	-	1,423,000	1,423,000
WS 75	Line the Cross Creek Outfall, Blue Street to Gale Street	-	-	-	320,000	320,000
WS 76	Old Wilmington Road Sewer Upgrades	-	-	-	-	-
WS 77	Legion Road Sewer Improvements	-	-	-	3,112,000	3,112,000
WS 78	Murchison Road Sewer Improvements, (Jasper St. to Murchison	-	15,000	-	-	15,000
WS 79	B Street Parallel Sewer	-	-	-	-	-
WS 80	Line Beaver Creek Outfall, Phase I	-	-	-	2,500,000	2,500,000
WS 81	Line Beaver Creek Outfall, Phase II	-	-	-	-	-
WS 82	Line the Beaver Creek Outfall, Phase III	-	-	-	-	-
WS 83	Big Rockfish Sanitary Sewer Outfall	-	625,000	-	-	625,000
WS 84	Longview Lift Station and Force Main Upgrade	-	85,000	-	-	85,000
WS 85	NCDOT U-4403 Ramsey Street Widening - Sewer	-	300,000	-	-	300,000
WS 86	NCDOT U-4404 Cliffdale Road Widening - Sewer	-	30,000	-	-	30,000
WS 87	NCDOT U-4900 Murchison Road Widening - Sewer	-	30,000	-	-	30,000
WS 88	NCDOT U-5101 Shaw Rd to Stacey Weaver Dr Widening - Sev	-	-	-	-	-
WS 89	NCDOT U-5798 Gillis Hill Road Widening - Sewer	-	20,000	-	-	20,000
WS 90	NCDOT U-3422 Camden Rd Widening - Sewer	-	25,000	-	-	25,000
WS 91	Hurricane Matthew Improvement of Sewer Facilities	-	-	-	1,690,000	1,690,000
WS 98	Lift Station Rehabilitation	-	-	-	355,000	355,000
WS 99	Sanitary Sewer Manhole Rehabilitation	-	1,830,000	-	-	1,830,000
WS 100	Sanitary Sewer Main Rehabilitation	-	-	-	5,500,000	5,500,000
WS 101	Line 54" Outfall - Research Drive to I-95	-	10,000	-	-	10,000
WS 102	Line 54" Outfall - I-95 to Claude Lee Road	-	-	-	-	-
WS 103	Rockfish Creek Basin Peak Flow Facilities	-	662,000	-	1,433,000	2,095,000
WS 104	NCDOT U-6072 SR1112 (Rockfish Rd) from Strickland Bridge	-	-	-	-	-
WS 105	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oaks Dr	-	260,000	-	-	260,000
WS 106	COF Ann Street Bridge - Sewer Replacement	-	365,000	-	-	365,000
WS 107	Lift Stations #5 and #28- Wet Well Rehabilitation	-	485,000	-	-	485,000
WS 108	North Fayetteville Lift Station Upgrades	-	-	-	3,152,000	3,152,000
WS 109	Neal St. Lift Station # 11 & Force Main Replacement	-	290,000	-	-	290,000

# PROJECT FUNDING SUMMARY

REF. #	2019 PROJECT LISTING	ELECTRIC FUND	W/S FUND	FMF	BOND FUND / NC DOT RESERVE / CPF	TOTAL
WS 110	Freedom Town Center Sewer Replacement	-	810,000	-	-	810,000
WS 111	Rehabilitation of the Cape Fear Outfall, Hoffer to Cross Creek	-	1,210,000	-	-	1,210,000
WS 112	Rehabilitation of the Blounts Creek Outfall, Campbell to Russell	-	-	-	-	-
WS 113	Branson Creek Interceptor Replacement, Phase I	-	-	-	-	-
WS 114	Branson Creek Interceptor Replacement, Phase II	-	-	-	-	-
WS 115	NCDOT U-4414 - All American Freeway Widening from Owen I	-	-	-	-	-
WS 116	NCDOT U-4709 Rockfish Road, Golfview Drive to NC 59 - Sew	-	-	-	-	-
WS 117	NCDOT W-5601CD - Medians and Leftovers on US 301/Easter	-	5,000	-	-	5,000
WS 118	NCDOT U-2519AA/AB - Fayetteville Outer Loop from South of	-	20,000	-	-	20,000
WS 119	Kennedy Street Aerial Sewer Replacement	-	55,000	-	120,000	175,000
	<b>SANITARY SEWER COLLECTION</b>	-	<b>9,945,000</b>	-	<b>43,934,000</b>	<b>53,879,000</b>
WS 17	Glenville Lake Filter Control System Upgrades	-	805,000	-	-	805,000
WS 32	Structural Improvements at Glenville WTP	-	535,000	-	-	535,000
	<b>GLENVILLE LAKE WATER PLANT</b>	-	<b>1,340,000</b>	-	-	<b>1,340,000</b>
WS 26	Hoffer 1B Hurricane Matthew Related Repairs	-	-	-	141,000	141,000
WS 27	PO Hoffer WTF Capacity Expansion, Phase 2 – Expansion	-	730,000	-	-	730,000
WS 28	PO Hoffer WTF Capacity Expansion, Phase 3 – Residuals Faci	-	308,000	-	-	308,000
WS 45	Hoffer Raw Water Intake Screen Repair and Mitigation	-	-	-	940,000	940,000
WS 46	PO Hoffer WTF 60" Slide Gate Replacement	-	230,000	-	-	230,000
	<b>P.O. HOFFER WATER PLANT</b>	-	<b>1,268,000</b>	-	<b>1,081,000</b>	<b>2,349,000</b>
WS 92	Rehab Cross Creek Influent Pump Station	-	-	-	2,360,000	2,360,000
WS 93	Cross Creek WRF Secondary Screening Improvements	-	-	-	1,530,000	1,530,000
	<b>CROSS CREEK TREATMENT PLANT</b>	-	-	-	<b>3,890,000</b>	<b>3,890,000</b>
WS 44	Rockfish Creek WRF Filters #1 - #6 Rehabilitation	-	-	-	2,375,000	2,375,000
WS 94	Rockfish Creek WRF Secondary Clarifier Rehabilitation	-	755,000	-	-	755,000
WS 95	Rockfish Creek WRF Expansion, Phase 3	-	395,000	-	-	395,000
WS 96	Rockfish Creek WRF Screening Improvements	-	180,000	-	-	180,000
WS 97	Rockfish Creek WRF Effluent Outfall Repairs	-	-	-	705,000	705,000
	<b>ROCKFISH TREATMENT PLANT</b>	-	<b>1,330,000</b>	-	<b>3,080,000</b>	<b>4,410,000</b>
	<b>TOTAL WATER RESOURCES</b>	-	<b>21,530,000</b>	-	<b>63,064,000</b>	<b>84,594,000</b>
	<b>ELECTRIC SYSTEMS</b>					
EL 45	ROW Additions Distribution	50,000	-	-	-	50,000
	<b>LAND AND LAND RIGHTS</b>	<b>50,000</b>	-	-	-	<b>50,000</b>
EL 58	BWGP Valve Actuator Upgrade	55,000	-	-	-	55,000
	<b>GENERATION PLANT</b>	<b>55,000</b>	-	-	-	<b>55,000</b>
EL 26	Sub-Transmission Pole Replacement	250,000	-	-	-	250,000
EL 27	66 kV System Sectionalizing Improvements	300,000	-	-	-	300,000
EL 30	T/D Sub Differential and Back-Up Overcurrent Relay Repl	100,000	-	-	-	100,000
EL 32	T/D Substation Control Building Replacement	250,000	-	-	-	250,000
EL 40	Hogan Street 67-12 kV Substation Transformer Replacement	-	-	-	-	-
EL 41	POD II Rebuild	125,000	-	-	-	125,000
EL 42	POD III Relaying Upgrade	-	-	-	100,000	100,000
EL 43	POD IV 230-66 kV Substation	-	-	-	-	-
EL 44	POD V 230-66 kV Substation Property Acquisition	750,000	-	-	-	750,000
	<b>TRANSMISSION PLANT</b>	<b>1,775,000</b>	-	-	<b>100,000</b>	<b>1,875,000</b>
EL 1	Underground Distribution Infrastructure Installations – New	1,500,000	-	-	-	1,500,000
EL 2	Overhead Infrastructure Installation - New	50,000	-	-	-	50,000
EL 3	LED Area Lights - Replacements/Conversion	-	-	-	750,000	750,000
EL 4	LED Area Lights - New Installations	350,000	-	-	-	350,000
EL 5	Padmount Transformers	850,000	-	-	-	850,000
EL 6	Overhead Transformers	400,000	-	-	-	400,000

# PROJECT FUNDING SUMMARY

REF. #	2019 PROJECT LISTING	ELECTRIC FUND	W/S FUND	FMF	BOND FUND / NC DOT RESERVE / CPF	TOTAL
EL 7	Underground Infrastructure Replacement - Residential	1,200,000	-	-	-	1,200,000
EL 8	Underground Infrastructure Replacement - Non Residential	1,100,000	-	-	-	1,100,000
EL 9	UG Feeder Exit Replacement Substations	125,000	-	-	-	125,000
EL 10	Underground Distribution Infrastructure Replacements (Non-Ca	850,000	-	-	-	850,000
EL 11	Overhead Distribution System Circuit Improvements	50,000	-	-	-	50,000
EL 12	Distribution System Sectionalizing	250,000	-	-	-	250,000
EL 13	Bragg Boulevard Gateway Improvement - Phase II	-	-	-	-	-
EL 14	Beaver Creek 12 kV Circuit Relocation	525,000	-	-	-	525,000
EL 15	Overhead Infrastructure Improvements	1,000,000	-	-	-	1,000,000
EL 16	Street Lights - LED Conversion	-	-	-	1,000,000	1,000,000
EL 17	Thoroughfare LED Roadway Lighting-Conversion	-	-	-	1,000,000	1,000,000
EL 18	Thoroughfare LED Lighting - New Installations	50,000	-	-	-	50,000
EL 19	Street Lights - Contract Lighting LED Replacement/Conversion	-	-	-	750,000	750,000
EL 20	Street Lights - Contract Lighting - New LED Installations	100,000	-	-	-	100,000
EL 21	Conservation Load Reduction (CVR)	1,000,000	-	-	-	1,000,000
EL 22	System Reactive Power Compensation	300,000	-	-	-	300,000
EL 25	Distribution Automation	600,000	-	-	-	600,000
EL 28	Distribution Circuit Breaker Replacement	350,000	-	-	-	350,000
EL 29	Distribution Substation Equipment Replacement	100,000	-	-	-	100,000
EL 31	T/D Sub 66 kV Power Transformer Protection Equipment Upgr	500,000	-	-	-	500,000
EL 33	Transmission - Distribution Substation Oil Containment System	300,000	-	-	-	300,000
EL 34	Fenix 67-25 kV Substation Upgrade	-	-	-	1,750,000	1,750,000
EL 35	Fenix 67-25 kV Substation Distribution Feeder Installation	200,000	-	-	-	200,000
EL 36	Lafayette Village 67-12 kV Substation Rebuild	-	-	-	300,000	300,000
EL 37	Murray Fork 66- 25 kV Substation Power Transformer Upgrade	-	-	-	750,000	750,000
EL 38	Bordeaux 67-12 kV Substation Rebuild	-	-	-	75,000	75,000
EL 39	Black & Decker Substation Rebuild	-	-	-	-	-
EL 46	Fayetteville Ball Park	550,000	-	-	-	550,000
EL 47	Downtown UG Infrastructure Reliability Improvements	50,000	-	-	-	50,000
EL 48	Underground Distribution / Streetscape Improvement	50,000	-	-	-	50,000
EL 49	CoF Person St 300 - 600 Block Streetscape Improvement	-	-	-	-	-
EL 50	CoF Sidewalk Conflicts	100,000	-	-	-	100,000
EL 51	CoF Langdon St Widening Project	-	-	-	-	-
EL 52	CoF Legend Avenue Re-Alignment	300,000	-	-	-	300,000
EL 53	NCDOT U-4405 Raeford Road Widening	-	-	-	6,600,000	6,600,000
EL 54	CoF Louise Street and Ann Street Bridge Replacement	200,000	-	-	-	200,000
EL 55	NCDOT Rowan Street Bridge Replacement	450,000	-	-	-	450,000
EL 56	NCDOT U-3424 Bunce Road Widening	-	-	-	-	-
EL 57	NCDOT U-4900 Murchison Road Widening	-	-	-	-	-
EL 59	Heat Exchanger Upgrade	310,000	-	-	-	310,000
EL 60	BWGP 72.5 kV Power Circuit Breaker Replacement	-	-	-	-	-
EL 61	NCDOT U-4403B Ramsey Street Widening	-	-	-	-	-
EL 62	NCDOT U-5798 Gillis Hill Road Widening	400,000	-	-	-	400,000
EL 63	NCDOT U-5101 Stacey Weaver Drive Widening	-	-	-	-	-
EL 64	NCDOT U-4404 Cliffdale Road Widening	-	-	-	-	-
EL 65	FTI 66-12 kV Substation Rebuild and Relocation	-	-	-	-	-
EL 66	PO Hoffer 66-12 kV Substation Rebuild	-	-	-	-	-
<b>DISTRIBUTION PLANT</b>		<b>14,160,000</b>	<b>-</b>	<b>-</b>	<b>12,975,000</b>	<b>27,135,000</b>
EL 23	Fiber Optic Cable Line Extensions For Electric System Automat	400,000	-	-	-	400,000
<b>TELECOM-CABLE INFRASTRUCTURE</b>		<b>400,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>400,000</b>
EL 24	SONET Communications for Smart Grid	400,000	-	-	-	400,000
<b>COMMUNICATIONS EQUIPMENT</b>		<b>400,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>400,000</b>
<b>TOTAL ELECTRIC SYSTEMS</b>		<b>16,840,000</b>	<b>-</b>	<b>-</b>	<b>13,075,000</b>	<b>29,915,000</b>
<b>TOTAL ALL PROJECTS</b>		<b>18,692,500</b>	<b>22,793,500</b>	<b>600,000</b>	<b>76,139,000</b>	<b>118,225,000</b>

# SUMMARY BY PROJECT

REF #	PROJECT NAME	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	PRE-FY 2018	FY 2018 EST.	TOTAL COST
<b>(Dollars in thousands)</b>										
<b>CUSTOMER PROGRAMS</b>										
CP 1	Electric Meters and Metering Equipment	235	238	240	242	245	247	133	234	1,814
CP 2	Water Meters	296	299	302	305	308	311	214	296	2,331
<b>TOTAL CUSTOMER PROGRAMS</b>		<b>531</b>	<b>537</b>	<b>542</b>	<b>547</b>	<b>553</b>	<b>558</b>	<b>347</b>	<b>530</b>	<b>4,145</b>
<b>CORPORATE SERVICES</b>										
CS 1	Robert C. Williams Business Center Upfit	0	60	60	60	60	60	117	0	417
CS 2	R C Williams Roof Replacement	50	0	0	0	0	0	0	298	348
CS 3	Multipurpose Building	0	300	8,700	1,040	0	0	0	0	10,040
CS 4	Upgrade Warehouse Yard	640	100	0	0	0	0	0	170	910
CS 5	Replace Operations Building Roof	600	0	0	0	0	0	0	0	600
CS 6	Replace Warehouse Roof	0	650	0	0	0	0	0	0	650
CS 7	Replace Administration Building Roof	0	0	180	0	0	0	0	0	180
CS 8	OMS Software and Implementation	875	0	50	0	50	0	0	0	975
CS 9	IS DR Solution	420	0	100	0	100	0	0	0	620
CS 10	Fleet Bay Expansion	600	5,400	3,200	0	0	0	120	0	9,320
<b>TOTAL CORPORATE SERVICES</b>		<b>3,185</b>	<b>6,510</b>	<b>12,290</b>	<b>1,100</b>	<b>210</b>	<b>60</b>	<b>237</b>	<b>468</b>	<b>24,060</b>
<b>WATER RESOURCES</b>										
WS 1	Land and Land Rights - Water	19	19	19	19	19	19	3	30	147
WS 2	New Water Service Laterals and Water Main Extensions	618	638	657	677	697	717	592	455	5,051
WS 3	Water Lateral Renewals (PWC Forces)	970	1,019	1,070	1,123	1,179	1,238	993	871	8,463
WS 4	New Hydrant and Valve Installation	122	124	126	128	130	133	132	90	985
WS 5	Water Distribution System Rehabilitation	5,500	6,000	6,750	7,500	8,500	9,500	4,119	5,000	52,869
WS 6	NCDOT B-4491 Bridge # 22 Replacement, NC 59 over I-95 I	20	405	0	0	0	0	0	5	430
WS 7	NCDOT U-6072 SR1112 (Rockfish Rd) from Strickland Bridg	0	0	0	150	200	120	0	0	470
WS 8	North Fayetteville Water System Improvements	430	0	0	0	0	0	2,905	3,240	6,575
WS 9	NCDOT U-6073 Fisher Rd. from Strickland Bridge Rd. to NC	0	0	0	150	200	120	0	0	470
WS 10	Market House Water Main Replacement	522	0	0	0	0	0	44	576	1,142
WS 11	Braxton Road 12" Water Main Extension	0	0	75	260	195	0	0	0	530
WS 12	Phase V Annexation - Water Main Extension	174	880	788	353	1,195	4,121	194	1,197	8,902
WS 13	COF - Storm Water Utility Improvements for City of Fayettev	773	773	773	270	270	270	54	242	3,425
WS 14	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oaks	625	710	361	17,990	0	0	525	730	20,941
WS 15	NCDOT W-5601FO Roundabout at Baywood Rd. and Murph	215	0	0	0	0	0	0	0	215
WS 16	Replace Existing Water Mains not Encased Under Railroad (	980	880	880	655	0	0	653	184	4,232
WS 17	Glenville Lake Filter Control System Upgrades	805	0	0	0	0	0	0	99	904
WS 18	City of Fayetteville Legend Avenue Extension Water	79	0	0	0	0	0	1	0	80
WS 19	Utility Improvements for the NCDOT Resurfacing and Storm	90	90	90	90	90	90	139	7	686
WS 20	Utility Improvements for the Town of Hope Mills Stormwater I	380	75	50	50	50	50	48	37	740
WS 21	Chicken Foot Road 16" Water Main Interconnect	200	1,040	455	0	0	0	0	0	1,695
WS 22	West Fayetteville Pressure Zone Improvements	0	0	210	2,960	5,520	2,370	0	0	11,060
WS 23	Russell St Water Main Replacement, Gillespie to Eastern	130	0	0	0	0	0	933	913	1,976
WS 24	Sandhill Road 12" Water Main Extension	0	0	0	0	150	585	0	0	735
WS 25	High Pressure Zone Transmission Water Main Improvement	0	265	265	365	515	3,365	0	0	4,775
WS 26	Hoffer 1B Hurricane Matthew Related Repairs	141	0	0	0	0	0	0	531	672
WS 27	PO Hoffer WTF Capacity Expansion, Phase 2 – Expansion	730	755	380	8,170	15,235	13,860	0	1,200	40,330
WS 28	PO Hoffer WTF Capacity Expansion, Phase 3 – Residuals F.	308	330	215	89	6,627	4,361	0	0	11,930
WS 29	NCDOT B-4490, Bridge # 116 Replacement, over CSX RR, i	25	55	0	0	0	0	36	10	126
WS 30	NCDOT U2519CB Fay Outer Lp WM Relocation	610	0	0	0	0	0	6	9	625
WS 31	COF - Ann Street Bridge - Water Replacement	365	0	0	0	0	0	1	32	398
WS 32	Structural Improvements at Glenville WTP	535	0	0	0	0	0	24	40	598
WS 33	NCDOT U-2519C A/B-5516 Fayetteville Outer Loop South of	20	20	550	0	0	0	0	15	605

# SUMMARY BY PROJECT

REF #	PROJECT NAME	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	PRE-FY 2018	FY 2018 EST.	TOTAL COST
<b>(Dollars in thousands)</b>										
WS 34	NCDOT U-2519B A/BB Fayetteville Outer Loop from South c	15	15	15	15	3,278	0	0	10	3,348
WS 35	NCDOT U-4403 Ramsey Street Widening - Water	800	1,700	875	275	275	140	0	0	4,065
WS 36	NCDOT U-4404 Cliffdale Road Widening - Water	80	205	200	125	135	50	0	0	795
WS 37	NCDOT U-4900 Murchison Road Widening - Water	80	205	200	125	135	50	0	0	795
WS 38	NCDOT U-5101 Shaw Rd to Stacey Weaver Dr Widening - W	0	0	175	885	440	170	0	0	1,670
WS 39	NCDOT U-5798 Gillis Hill Road Widening - Water	130	250	135	55	55	55	0	0	680
WS 40	NCDOT U-3422 Camden Rd Widening - Water	130	285	205	60	60	60	0	0	800
WS 41	COF Louise Street Water Relocation	15	95	0	0	0	0	0	1	111
WS 42	US HWY 401 North Water Improvements	3,230	2,154	0	0	0	0	49	441	5,874
WS 43	Hurricane Matthew Improvement of Water Facilities	345	0	0	0	0	0	6	493	844
WS 44	Rockfish Creek WRF Filters #1 - #6 Rehabilitation	2,375	0	0	0	0	0	0	335	2,710
WS 45	Hoffer Raw Water Intake Screen Repair and Mitigation	940	0	0	0	0	0	0	155	1,095
WS 46	PO Hoffer WTF 60" Slide Gate Replacement	230	0	0	0	0	0	0	10	240
WS 47	City of Fayetteville Martindale Dr. City Storm Drain Improv	295	0	0	0	0	0	0	0	295
WS 48	Cliffdale Road Transmission Water Main Improvements	0	130	930	720	0	0	0	0	1,780
WS 49	NCDOT U-2519A A/AB - Fayetteville Outer Loop from South	20	15	15	565	0	0	0	20	635
WS 50	NCDOT U-4414 - All American Freeway Widening from Owe	0	0	0	0	5	45	0	0	50
WS 51	Gillespie Street Water Main Replacement	0	0	80	510	1,385	0	0	0	1,975
WS 52	Glenville Water Main Replacement, Filter Plant to Coley	30	145	320	0	0	0	0	0	495
WS 53	Cottonade Water Main Replacement	55	2,845	0	0	0	0	0	215	3,115
WS 54	Scottsdale Water Main Replacement	615	1,045	0	0	0	0	0	160	1,820
WS 55	NCDOT U-4709 Rockfish Road, Golfview Drive to NC 59 - W	0	55	140	80	5	5	0	0	285
WS 57	Land and Land Rights - Sewer	19	19	19	19	19	19	2	90	206
WS 58	New Sewer Service Laterals and Sewer Main Extensions	500	526	552	580	609	640	511	447	4,365
WS 59	Sewer Lateral Renewals (PWC Forces)	825	845	867	889	911	934	698	623	6,592
WS 60	City of Fayetteville - Legend Avenue Extension Sewer	104	0	0	0	0	0	0	0	104
WS 61	Utility Improvements for the NCDOT Resurfacing and Storm	10	10	10	10	10	10	8	5	73
WS 62	Utility Improvements for the Town of Hope Mills Stormwater I	160	75	50	50	50	50	45	9	489
WS 63	Phase V Annexation	19,744	18,992	23,250	22,215	24,218	23,375	52,791	19,000	203,585
WS 64	Carver's Creek (North Fayetteville) Sewer Line	4,405	1,640	0	0	0	0	143	192	6,380
WS 65	NCDOT B-4491 Bridge # 22 Replacement, NC 59 over I-95 I	15	190	0	0	0	0	0	5	210
WS 66	Lift Station Wet Well Rehabilitation - North Fayetteville & Cy	180	0	0	0	0	0	20	757	957
WS 67	Ann Street Sewer Relocation (Aerial Crossing)	365	0	0	0	0	0	31	11	407
WS 68	COF Louise Street Sewer Relocation	15	95	0	0	0	0	0	1	111
WS 69	NCDOT U-6073 Fisher Rd. from Strickland Bridge Rd. to NC	0	0	0	150	200	120	0	0	470
WS 70	COF Storm Sewer Utility Improvements for City of Fayettevill	729	729	729	221	221	221	40	48	2,938
WS 71	NCDOT B-4490, Bridge #116 Replacement, over CSX RR &	60	435	0	0	0	0	41	18	554
WS 72	NCDOT U-2519C A/B-5516 Fayetteville Outer Loop South of	20	20	300	0	0	0	0	15	355
WS 73	NCDOT U-2519B A/BB Fayetteville Outer Loop from South c	10	10	10	10	1,740	0	0	5	1,785
WS 74	Clifton Drive Sewer Main Relocation	1,423	0	0	0	0	0	24	15	1,462
WS 75	Line the Cross Creek Outfall, Blue Street to Gale Street	320	3,520	0	0	0	0	0	326	4,166
WS 76	Old Wilmington Road Sewer Upgrades	0	0	0	55	410	510	5	0	980
WS 77	Legion Road Sewer Improvements	3,112	0	0	0	0	0	599	2,128	5,839
WS 78	Murchison Road Sewer Improvements, (Jasper St. to Murchi	15	1,615	0	0	0	0	20	10	1,660
WS 79	B Street Parallel Sewer	0	0	85	345	605	3,610	0	0	4,645
WS 80	Line Beaver Creek Outfall, Phase I	2,500	0	0	0	0	0	0	7	2,507
WS 81	Line Beaver Creek Outfall, Phase II	0	1,250	1,250	0	0	0	0	0	2,500
WS 82	Line the Beaver Creek Outfall, Phase III	0	0	0	0	0	1,080	0	0	1,080
WS 83	Big Rockfish Sanitary Sewer Outfall	625	975	8,425	8,710	270	0	0	0	19,005
WS 84	Longview Lift Station and Force Main Upgrade	85	635	1,010	0	0	0	0	0	1,730
WS 85	NCDOT U-4403 Ramsey Street Widening - Sewer	300	850	340	140	140	140	0	0	1,910
WS 86	NCDOT U-4404 Cliffdale Road Widening - Sewer	30	70	70	55	40	30	0	0	295
WS 87	NCDOT U-4900 Murchison Road Widening - Sewer	30	70	70	55	40	30	0	0	295

# SUMMARY BY PROJECT

REF #	PROJECT NAME	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	PRE-FY 2018	FY 2018 EST.	TOTAL COST
<i>(Dollars in thousands)</i>										
WS 88	NCDOT U-5101 Shaw Rd to Stacey Weaver Dr Widening - S	0	0	90	320	165	45	0	0	620
WS 89	NCDOT U-5798 Gillis Hill Road Widening - Sewer	20	68	48	25	20	20	0	0	201
WS 90	NCDOT U-3422 Camden Rd Widening - Sewer	25	63	48	25	20	20	0	0	201
WS 91	Hurricane Matthew Improvement of Sewer Facilities	1,690	0	0	0	0	0	70	1,377	3,137
WS 92	Rehab Cross Creek Influent Pump Station	2,360	4,860	0	0	0	0	37	280	7,537
WS 93	Cross Creek WRF Secondary Screening Improvements	1,530	0	0	0	0	0	48	125	1,703
WS 94	Rockfish Creek WRF Secondary Clarifier Rehabilitation	755	0	0	0	0	0	0	0	755
WS 95	Rockfish Creek WRF Expansion, Phase 3	395	770	5,780	10,630	5,270	0	0	75	22,920
WS 96	Rockfish Creek WRF Screening Improvements	180	1,560	0	0	0	0	0	35	1,775
WS 97	Rockfish Creek WRF Effluent Outfall Repairs	705	0	0	0	0	0	0	175	880
WS 98	Lift Station Rehabilitation	355	810	585	0	0	0	0	0	1,750
WS 99	Sanitary Sewer Manhole Rehabilitation	1,830	2,000	2,100	2,200	2,300	2,400	1,180	1,580	15,590
WS 100	Sanitary Sewer Main Rehabilitation	5,500	6,000	7,000	8,000	9,000	10,000	4,276	4,941	54,717
WS 101	Line 54" Outfall - Research Drive to I-95	10	815	1,215	0	0	0	0	0	2,040
WS 102	Line 54" Outfall - I-95 to Claude Lee Road	0	0	10	715	1,415	0	0	0	2,140
WS 103	Rockfish Creek Basin Peak Flow Facilities	2,095	8,172	8,132	0	0	0	90	323	18,812
WS 104	NCDOT U-6072 SR1112 (Rockfish Rd) from Strickland Bridg	0	0	0	150	200	120	0	0	470
WS 105	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oaks	260	80	70	1,070	0	0	184	581	2,245
WS 106	COF Ann Street Bridge - Sewer Replacement	365	0	0	0	0	0	1	183	549
WS 107	Lift Stations #5 and #28- Wet Well Rehabilitation	485	0	0	0	0	0	0	0	485
WS 108	North Fayetteville Lift Station Upgrades	3,152	2,975	3,665	4,165	870	0	639	501	15,967
WS 109	Neal St. Lift Station # 11 & Force Main Replacement	290	1,515	640	0	0	0	24	5	2,474
WS 110	Freedom Town Center Sewer Replacement	810	0	0	0	0	0	0	110	920
WS 111	Rehabilitation of the Cape Fear Outfall, Hoffer to Cross Cree	1,210	0	0	0	0	0	0	0	1,210
WS 112	Rehabilitation of the Blounts Creek Outfall, Campbell to Rus:	0	0	610	0	0	0	0	0	610
WS 113	Branson Creek Interceptor Replacement, Phase I	0	0	35	215	485	0	0	0	735
WS 114	Branson Creek Interceptor Replacement, Phase II	0	0	0	55	435	860	0	0	1,350
WS 115	NCDOT U-4414 - All American Freeway Widening from Owe	0	0	0	0	5	45	0	0	50
WS 116	NCDOT U-4709 Rockfish Road, Golfview Drive to NC 59 - S	0	10	30	15	5	5	0	0	65
WS 117	NCDOT W-5601CD - Medians and Leftovers on US 301/Eas	5	80	0	0	0	0	0	3	88
WS 118	NCDOT U-2519AA/AB - Fayetteville Outer Loop from South	20	15	15	685	0	0	0	15	750
WS 119	Kennedy Street Aerial Sewer Replacement	175	0	0	0	0	0	0	50	225
<b>TOTAL WATER RESOURCES</b>		<b>84,594</b>	<b>85,586</b>	<b>84,114</b>	<b>106,188</b>	<b>96,218</b>	<b>85,778</b>	<b>72,984</b>	<b>51,425</b>	<b>666,886</b>

**ELECTRIC SYSTEMS**

EL 1	Underground Distribution Infrastructure Installations – New	1,500	1,550	1,600	1,650	1,700	1,750	1,454	1,450	12,654
EL 2	Overhead Infrastructure Installation - New	50	50	50	50	50	50	55	47	402
EL 3	LED Area Lights - Replacements/Conversion	750	750	0	0	0	0	199	531	2,230
EL 4	LED Area Lights - New Installations	350	350	325	325	300	300	367	328	2,645
EL 5	Padmount Transformers	850	850	850	850	850	850	611	840	6,551
EL 6	Overhead Transformers	400	400	400	400	400	400	410	375	3,185
EL 7	Underground Infrastructure Replacement - Residential	1,200	1,300	1,500	1,700	1,500	1,500	384	1,280	10,364
EL 8	Underground Infrastructure Replacement - Non Residential	1,100	1,200	1,300	1,400	1,500	1,600	511	525	9,136
EL 9	UG Feeder Exit Replacement Substations	125	500	500	500	350	400	14	155	2,544
EL 10	Underground Distribution Infrastructure Replacements (Non-	850	850	1,000	1,000	1,000	1,000	785	750	7,235
EL 11	Overhead Distribution System Circuit Improvements	50	50	100	100	150	200	1	35	686
EL 12	Distribution System Sectionalizing	250	250	500	500	250	250	840	225	3,065
EL 13	Bragg Boulevard Gateway Improvement - Phase II	0	0	0	0	1,150	1,150	0	0	2,300
EL 14	Beaver Creek 12 kV Circuit Relocation	525	0	0	0	0	0	0	20	545
EL 15	Overhead Infrastructure Improvements	1,000	1,000	1,500	1,500	1,000	1,000	748	987	8,735
EL 16	Street Lights - LED Conversion	1,000	0	0	0	0	0	6,177	1,024	8,201
EL 17	Thoroughfare LED Roadway Lighting-Conversion	1,000	500	0	0	0	0	489	569	2,558

# SUMMARY BY PROJECT

REF #	PROJECT NAME	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	PRE-FY 2018	FY 2018 EST.	TOTAL COST
<i>(Dollars in thousands)</i>										
EL 18	Thoroughfare LED Lighting - New Installations	50	50	50	50	50	50	0	20	320
EL 19	Street Lights - Contract Lighting LED Replacement/Conversa	750	500	0	0	0	0	141	1,024	2,415
EL 20	Street Lights - Contract Lighting - New LED Installations	100	100	100	100	100	100	0	25	625
EL 21	Conservation Load Reduction (CVR)	1,000	2,000	0	0	0	0	611	750	4,361
EL 22	System Reactive Power Compensation	300	300	250	200	150	100	516	150	1,966
EL 23	Fiber Optic Cable Line Extensions For Electric System Autor	400	400	700	700	700	700	109	375	4,084
EL 24	SONET Communications for Smart Grid	400	400	0	0	0	0	2	715	1,517
EL 25	Distribution Automation	600	750	1,250	1,500	1,500	1,500	48	225	7,373
EL 26	Sub-Transmission Pole Replacement	250	2,500	2,500	1,500	1,500	1,500	1,190	952	11,892
EL 27	66 kV System Sectionalizing Improvements	300	300	300	300	300	300	120	245	2,165
EL 28	Distribution Circuit Breaker Replacement	350	350	350	350	350	350	186	434	2,720
EL 29	Distribution Substation Equipment Replacement	100	100	100	100	100	100	7	50	657
EL 30	T/D Sub Differential and Back-Up Overcurrent Relay Repl	100	100	100	100	100	100	41	174	815
EL 31	T/D Sub 66 kV Power Transformer Protection Equipment Up	500	500	500	500	500	500	227	467	3,694
EL 32	T/D Substation Control Building Replacement	250	250	250	250	250	250	0	0	1,500
EL 33	Transmission - Distribution Substation Oil Containment Syst	300	0	0	0	0	0	0	0	300
EL 34	Fenix 67-25 kV Substation Upgrade	1,750	50	0	0	0	0	614	975	3,389
EL 35	Fenix 67-25 kV Substation Distribution Feeder Installation	200	375	0	0	0	0	0	50	625
EL 36	Lafayette Village 67-12 kV Substation Rebuild	300	0	0	0	0	0	913	1,350	2,563
EL 37	Murray Fork 66- 25 kV Substation Power Transformer Upgra	750	0	0	0	0	0	0	10	760
EL 38	Bordeaux 67-12 kV Substation Rebuild	75	2,200	0	0	0	0	0	0	2,275
EL 39	Black & Decker Substation Rebuild	0	100	1,800	0	0	0	0	0	1,900
EL 40	Hogan Street 67-12 kV Substation Transformer Replacemen	0	0	0	0	875	0	0	0	875
EL 41	POD II Rebuild	125	0	0	0	0	0	4,253	778	5,156
EL 42	POD III Relaying Upgrade	100	1,200	0	0	0	0	0	0	1,300
EL 43	POD IV 230-66 kV Substation	0	0	125	250	7,875	10,500	3	1,400	20,153
EL 44	POD V 230-66 kV Substation Property Acquisition	750	0	0	0	0	0	0	0	750
EL 45	ROW Additions Distribution	50	150	150	150	150	150	16	0	816
EL 46	Fayetteville Ball Park	550	0	0	0	0	0	0	0	550
EL 47	Downtown UG Infrastructure Reliability Improvements	50	700	0	0	0	0	3	2	755
EL 48	Underground Distribution / Streetscape Improvement	50	50	50	50	50	50	7	0	307
EL 49	CoF Person St 300 - 600 Block Streetscape Improvement	0	0	0	525	525	525	379	0	1,954
EL 50	CoF Sidewalk Conflicts	100	100	100	100	100	100	0	0	600
EL 51	CoF Langdon St Widening Project	0	0	0	0	0	300	0	0	300
EL 52	CoF Legend Avenue Re-Alignment	300	0	0	0	0	0	0	0	300
EL 53	NCDOT U-4405 Raeford Road Widening	6,600	2,750	0	0	0	0	679	1,150	11,179
EL 54	CoF Louise Street and Ann Street Bridge Replacement	200	0	0	0	0	0	0	0	200
EL 55	NCDOT Rowan Street Bridge Replacement	450	0	0	0	0	0	1,928	100	2,478
EL 56	NCDOT U-3424 Bunce Road Widening	0	375	375	125	0	0	0	0	875
EL 57	NCDOT U-4900 Murchison Road Widening	0	0	0	325	775	1,125	0	0	2,225
EL 58	BWGP Valve Actuator Upgrade	55	0	0	0	0	0	117	55	227
EL 59	Heat Exchanger Upgrade	310	310	310	0	0	0	0	0	930
EL 60	BWGP 72.5 kV Power Circuit Breaker Replacement	0	1,000	0	0	0	0	0	0	1,000
EL 61	NCDOT U-4403B Ramsey Street Widening	0	500	1,250	4,100	1,100	200	0	0	7,150
EL 62	NCDOT U-5798 Gillis Hill Road Widening	400	400	850	1,150	0	0	0	0	2,800
EL 63	NCDOT U-5101 Stacey Weaver Drive Widening	0	0	200	1,000	2,100	4,450	0	0	7,750
EL 64	NCDOT U-4404 Cliffdale Road Widening	0	0	100	500	1,800	1,650	0	0	4,050
EL 65	FTI 66-12 kV Substation Rebuild and Relocation	0	1,000	3,000	500	0	0	0	0	4,500
EL 66	PO Hoffer 66-12 kV Substation Rebuild	0	0	1,000	1,000	0	0	0	0	2,000
<b>TOTAL ELECTRIC SYSTEMS</b>		<b>29,915</b>	<b>29,460</b>	<b>25,385</b>	<b>25,400</b>	<b>31,150</b>	<b>35,050</b>	<b>25,155</b>	<b>20,617</b>	<b>222,132</b>
<b>TOTAL ALL PROJECTS</b>		<b>118,225</b>	<b>122,093</b>	<b>122,331</b>	<b>133,235</b>	<b>128,131</b>	<b>121,446</b>	<b>98,723</b>	<b>73,039</b>	<b>917,222</b>

# SUMMARY BY CATEGORY

REF #	PROJECT NAME	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	PRE-FY 2018	FY 2018 EST.	TOTAL COST
<b>(Dollars in thousands)</b>										
<b>METERS</b>										
CP 1	Electric Meters and Metering Equipment	235	238	240	242	245	247	133	234	1,814
CP 2	Water Meters	296	299	302	305	308	311	214	296	2,331
<b>TOTAL METERS</b>		<b>531</b>	<b>537</b>	<b>542</b>	<b>547</b>	<b>553</b>	<b>558</b>	<b>347</b>	<b>530</b>	<b>4,145</b>
<b>BUILDINGS &amp; IMPROVEMENTS</b>										
CS 1	Robert C. Williams Business Center Upfit	0	60	60	60	60	60	117	0	417
CS 2	R C Williams Roof Replacement	50	0	0	0	0	0	0	298	348
CS 3	Multipurpose Building	0	300	8,700	1,040	0	0	0	0	10,040
CS 4	Upgrade Warehouse Yard	640	100	0	0	0	0	0	170	910
CS 5	Replace Operations Building Roof	600	0	0	0	0	0	0	0	600
CS 6	Replace Warehouse Roof	0	650	0	0	0	0	0	0	650
CS 7	Replace Administration Building Roof	0	0	180	0	0	0	0	0	180
CS 10	Fleet Bay Expansion	600	5,400	3,200	0	0	0	120	0	9,320
<b>TOTAL BUILDINGS &amp; IMPROVEMENTS</b>		<b>1,890</b>	<b>6,510</b>	<b>12,140</b>	<b>1,100</b>	<b>60</b>	<b>60</b>	<b>237</b>	<b>468</b>	<b>22,465</b>
<b>INHOUSE COMPUTER SYSTEMS</b>										
CS 8	OMS Software and Implementation	875	0	50	0	50	0	0	0	975
CS 9	IS DR Solution	420	0	100	0	100	0	0	0	620
<b>TOTAL INHOUSE COMPUTER SYSTEMS</b>		<b>1,295</b>	<b>0</b>	<b>150</b>	<b>0</b>	<b>150</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,595</b>
<b>NCDOT ELECTRIC</b>										
EL 53	NCDOT U-4405 Raeford Road Widening	6,600	2,750	0	0	0	0	679	1,150	11,179
EL 55	NCDOT Rowan Street Bridge Replacement	450	0	0	0	0	0	1,928	100	2,478
EL 56	NCDOT U-3424 Bunce Road Widening	0	375	375	125	0	0	0	0	875
EL 57	NCDOT U-4900 Murchison Road Widening	0	0	0	325	775	1,125	0	0	2,225
EL 61	NCDOT U-4403B Ramsey Street Widening	0	500	1,250	4,100	1,100	200	0	0	7,150
EL 62	NCDOT U-5798 Gillis Hill Road Widening	400	400	850	1,150	0	0	0	0	2,800
EL 63	NCDOT U-5101 Stacey Weaver Drive Widening	0	0	200	1,000	2,100	4,450	0	0	7,750
EL 64	NCDOT U-4404 Cliffdale Road Widening	0	0	100	500	1,800	1,650	0	0	4,050
<b>TOTAL NCDOT ELECTRIC</b>		<b>7,450</b>	<b>4,025</b>	<b>2,775</b>	<b>7,200</b>	<b>5,775</b>	<b>7,425</b>	<b>2,607</b>	<b>1,250</b>	<b>38,507</b>
<b>NCDOT W/WW</b>										
WS 6	NCDOT B-4491 Bridge # 22 Replacement, NC 59 over I-95	20	405	0	0	0	0	0	5	430
WS 7	NCDOT U-6072 SR1112 (Rockfish Rd) from Strickland Bric	0	0	0	150	200	120	0	0	470
WS 9	NCDOT U-6073 Fisher Rd. from Strickland Bridge Rd. to N	0	0	0	150	200	120	0	0	470
WS 14	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oak	625	710	361	17,990	0	0	525	730	20,941
WS 15	NCDOT W-5601FO Roundabout at Baywood Rd. and Murp	215	0	0	0	0	0	0	0	215
WS 19	Utility Improvements for the NCDOT Resurfacing and Storn	90	90	90	90	90	90	139	7	686
WS 29	NCDOT B-4490, Bridge # 116 Replacement, over CSX RR,	25	55	0	0	0	0	36	10	126
WS 30	NCDOT U2519CB Fay Outer Lp WM Relocation	610	0	0	0	0	0	6	9	625
WS 33	NCDOT U-2519C A/B-5516 Fayetteville Outer Loop South	20	20	550	0	0	0	0	15	605
WS 34	NCDOT U-2519B A/BB Fayetteville Outer Loop from South	15	15	15	15	3,278	0	0	10	3,348
WS 35	NCDOT U-4403 Ramsey Street Widening - Water	800	1,700	875	275	275	140	0	0	4,065
WS 36	NCDOT U-4404 Cliffdale Road Widening - Water	80	205	200	125	135	50	0	0	795
WS 37	NCDOT U-4900 Murchison Road Widening - Water	80	205	200	125	135	50	0	0	795
WS 38	NCDOT U-5101 Shaw Rd to Stacey Weaver Dr Widening -	0	0	175	885	440	170	0	0	1,670
WS 39	NCDOT U-5798 Gillis Hill Road Widening - Water	130	250	135	55	55	55	0	0	680
WS 40	NCDOT U-3422 Camden Rd Widening - Water	130	285	205	60	60	60	0	0	800
WS 49	NCDOT U-2519A A/AB - Fayetteville Outer Loop from Sout	20	15	15	565	0	0	0	20	635
WS 50	NCDOT U-4414 - All American Freeway Widening from Ow	0	0	0	0	5	45	0	0	50
WS 55	NCDOT U-4709 Rockfish Road, Golfview Drive to NC 59 - 1	0	55	140	80	5	5	0	0	285
WS 61	Utility Improvements for the NCDOT Resurfacing and Storn	10	10	10	10	10	10	8	5	73

# SUMMARY BY CATEGORY

REF #	PROJECT NAME	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	PRE-FY 2018	FY 2018 EST.	TOTAL COST
<b>(Dollars in thousands)</b>										
WS 65	NCDOT B-4491 Bridge # 22 Replacement, NC 59 over I-95	15	190	0	0	0	0	0	5	210
WS 69	NCDOT U-6073 Fisher Rd. from Strickland Bridge Rd. to N	0	0	0	150	200	120	0	0	470
WS 71	NCDOT B-4490, Bridge #116 Replacement, over CSX RR	60	435	0	0	0	0	41	18	554
WS 72	NCDOT U-2519C A/B-5516 Fayetteville Outer Loop South	20	20	300	0	0	0	0	15	355
WS 73	NCDOT U-2519B A/BB Fayetteville Outer Loop from South	10	10	10	10	1,740	0	0	5	1,785
WS 85	NCDOT U-4403 Ramsey Street Widening - Sewer	300	850	340	140	140	140	0	0	1,910
WS 86	NCDOT U-4404 Cliffdale Road Widening - Sewer	30	70	70	55	40	30	0	0	295
WS 87	NCDOT U-4900 Murchison Road Widening - Sewer	30	70	70	55	40	30	0	0	295
WS 88	NCDOT U-5101 Shaw Rd to Stacey Weaver Dr Widening -	0	0	90	320	165	45	0	0	620
WS 89	NCDOT U-5798 Gillis Hill Road Widening - Sewer	20	68	48	25	20	20	0	0	201
WS 90	NCDOT U-3422 Camden Rd Widening - Sewer	25	63	48	25	20	20	0	0	201
WS 104	NCDOT U-6072 SR1112 (Rockfish Rd) from Strickland Bric	0	0	0	150	200	120	0	0	470
WS 105	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oak	260	80	70	1,070	0	0	184	581	2,245
WS 115	NCDOT U-4414 - All American Freeway Widening from Ow	0	0	0	0	5	45	0	0	50
WS 116	NCDOT U-4709 Rockfish Road, Golfview Drive to NC 59 -	0	10	30	15	5	5	0	0	65
WS 117	NCDOT W-5601CD - Medians and Leftovers on US 301/Ea	5	80	0	0	0	0	0	3	88
WS 118	NCDOT U-2519AA/AB - Fayetteville Outer Loop from South	20	15	15	685	0	0	0	15	750
<b>TOTAL NCDOT W/WWW</b>		<b>3,665</b>	<b>5,981</b>	<b>4,062</b>	<b>23,275</b>	<b>7,463</b>	<b>1,490</b>	<b>939</b>	<b>1,454</b>	<b>48,329</b>
<b>CITY OF FAYETTEVILLE-ELECTRIC</b>										
EL 47	Downtown UG Infrastructure Reliability Improvements	50	700	0	0	0	0	3	2	755
EL 48	Underground Distribution / Streetscape Improvement	50	50	50	50	50	50	7	0	307
EL 49	CoF Person St 300 - 600 Block Streetscape Improvement	0	0	0	525	525	525	379	0	1,954
EL 50	CoF Sidewalk Conflicts	100	100	100	100	100	100	0	0	600
EL 51	CoF Langdon St Widening Project	0	0	0	0	0	300	0	0	300
EL 52	CoF Legend Avenue Re-Alignment	300	0	0	0	0	0	0	0	300
EL 54	CoF Louise Street and Ann Street Bridge Replacement	200	0	0	0	0	0	0	0	200
<b>TOTAL CITY OF FAYETTEVILLE-ELECTRIC</b>		<b>700</b>	<b>850</b>	<b>150</b>	<b>675</b>	<b>675</b>	<b>975</b>	<b>389</b>	<b>2</b>	<b>4,416</b>
<b>CITY OF FAYETTEVILLE-W/WWW</b>										
WS 13	COF - Storm Water Utility Improvements for City of Fayette	773	773	773	270	270	270	54	242	3,425
WS 18	City of Fayetteville Legend Avenue Extension Water	79	0	0	0	0	0	1	0	80
WS 31	COF - Ann Street Bridge - Water Replacement	365	0	0	0	0	0	1	32	398
WS 41	COF Louise Street Water Relocation	15	95	0	0	0	0	0	1	111
WS 47	City of Fayetteville Martindale Dr. City Storm Drain Improve	295	0	0	0	0	0	0	0	295
WS 60	City of Fayetteville - Legend Avenue Extension Sewer	104	0	0	0	0	0	0	0	104
WS 68	COF Louise Street Sewer Relocation	15	95	0	0	0	0	0	1	111
WS 70	COF Storm Sewer Utility Improvements for City of Fayettev	729	729	729	221	221	221	40	48	2,938
WS 106	COF Ann Street Bridge - Sewer Replacement	365	0	0	0	0	0	1	183	549
<b>TOTAL CITY OF FAYETTEVILLE-W/WWW</b>		<b>2,740</b>	<b>1,692</b>	<b>1,502</b>	<b>491</b>	<b>491</b>	<b>491</b>	<b>97</b>	<b>507</b>	<b>8,011</b>
<b>NEW SERVICES(INCL TRANSFORMERS)-ELECTRIC</b>										
EL 1	Underground Distribution Infrastructure Installations – New	1,500	1,550	1,600	1,650	1,700	1,750	1,454	1,450	12,654
EL 2	Overhead Infrastructure Installation - New	50	50	50	50	50	50	55	47	402
EL 5	Padmount Transformers	850	850	850	850	850	850	611	840	6,551
EL 6	Overhead Transformers	400	400	400	400	400	400	410	375	3,185
EL 23	Fiber Optic Cable Line Extensions For Electric System Autc	400	400	700	700	700	700	109	375	4,084
<b>TOTAL NEW SERVICES(INCL XFRMRS)-ELECTRIC</b>		<b>3,200</b>	<b>3,250</b>	<b>3,600</b>	<b>3,650</b>	<b>3,700</b>	<b>3,750</b>	<b>2,639</b>	<b>3,087</b>	<b>26,876</b>
<b>NEW SERVICES-W/WWW</b>										
WS 2	New Water Service Laterals and Water Main Extensions	618	638	657	677	697	717	592	455	5,051
WS 4	New Hydrant and Valve Installation	122	124	126	128	130	133	132	90	985
WS 58	New Sewer Service Laterals and Sewer Main Extensions	500	526	552	580	609	640	511	447	4,365

# SUMMARY BY CATEGORY

REF #	PROJECT NAME	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	PRE-FY 2018	FY 2018 EST.	TOTAL COST
<b>(Dollars in thousands)</b>										
<b>TOTAL NEW SERVICES-W/WW</b>		<b>1,240</b>	<b>1,288</b>	<b>1,335</b>	<b>1,385</b>	<b>1,436</b>	<b>1,490</b>	<b>1,235</b>	<b>992</b>	<b>10,401</b>
<b>ANNEXATION</b>										
WS 12	Phase V Annexation - Water Main Extension	174	880	788	353	1,195	4,121	194	1,197	8,902
WS 63	Phase V Annexation	19,744	18,992	23,250	22,215	24,218	23,375	52,791	19,000	203,585
<b>TOTAL ANNEXATION</b>		<b>19,918</b>	<b>19,872</b>	<b>24,038</b>	<b>22,568</b>	<b>25,413</b>	<b>27,496</b>	<b>52,985</b>	<b>20,197</b>	<b>212,487</b>
<b>REHABILITATION-W/WW</b>										
WS 3	Water Lateral Renewals (PWC Forces)	970	1,019	1,070	1,123	1,179	1,238	993	871	8,463
WS 5	Water Distribution System Rehabilitation	5,500	6,000	6,750	7,500	8,500	9,500	4,119	5,000	52,869
WS 59	Sewer Lateral Renewals (PWC Forces)	825	845	867	889	911	934	698	623	6,592
WS 66	Lift Station Wet Well Rehabilitation - North Fayetteville & C	180	0	0	0	0	0	20	757	957
WS 92	Rehab Cross Creek Influent Pump Station	2,360	4,860	0	0	0	0	37	280	7,537
WS 98	Lift Station Rehabilitation	355	810	585	0	0	0	0	0	1,750
WS 99	Sanitary Sewer Manhole Rehabilitation	1,830	2,000	2,100	2,200	2,300	2,400	1,180	1,580	15,590
WS 100	Sanitary Sewer Main Rehabilitation	5,500	6,000	7,000	8,000	9,000	10,000	4,276	4,941	54,717
WS 107	Lift Stations #5 and #28- Wet Well Rehabilitation	485	0	0	0	0	0	0	0	485
<b>TOTAL REHABILITATION-W/WW</b>		<b>18,005</b>	<b>21,534</b>	<b>18,372</b>	<b>19,712</b>	<b>21,890</b>	<b>24,072</b>	<b>11,323</b>	<b>14,052</b>	<b>148,960</b>
<b>OUTFALL REHABILITATION</b>										
WS 75	Line the Cross Creek Outfall, Blue Street to Gale Street	320	3,520	0	0	0	0	0	326	4,166
WS 80	Line Beaver Creek Outfall, Phase I	2,500	0	0	0	0	0	0	7	2,507
WS 81	Line Beaver Creek Outfall, Phase II	0	1,250	1,250	0	0	0	0	0	2,500
WS 82	Line the Beaver Creek Outfall, Phase III	0	0	0	0	0	1,080	0	0	1,080
WS 83	Big Rockfish Sanitary Sewer Outfall	625	975	8,425	8,710	270	0	0	0	19,005
WS 101	Line 54" Outfall - Research Drive to I-95	10	815	1,215	0	0	0	0	0	2,040
WS 102	Line 54" Outfall - I-95 to Claude Lee Road	0	0	10	715	1,415	0	0	0	2,140
WS 111	Rehabilitation of the Cape Fear Outfall, Hoffer to Cross Cre	1,210	0	0	0	0	0	0	0	1,210
WS 112	Rehabilitation of the Blounts Creek Outfall, Campbell to Rus	0	0	610	0	0	0	0	0	610
<b>TOTAL OUTFALL REHABILITATION</b>		<b>4,665</b>	<b>6,560</b>	<b>11,510</b>	<b>9,425</b>	<b>1,685</b>	<b>1,080</b>	<b>0</b>	<b>333</b>	<b>35,258</b>
<b>PLANT IMPROVEMENTS-W/WW</b>										
WS 17	Glenville Lake Filter Control System Upgrades	805	0	0	0	0	0	0	99	904
WS 32	Structural Improvements at Glenville WTP	535	0	0	0	0	0	24	40	598
WS 46	PO Hoffer WTF 60" Slide Gate Replacement	230	0	0	0	0	0	0	10	240
WS 93	Cross Creek WRF Secondary Screening Improvements	1,530	0	0	0	0	0	48	125	1,703
WS 94	Rockfish Creek WRF Secondary Clarifier Rehabilitation	755	0	0	0	0	0	0	0	755
WS 96	Rockfish Creek WRF Screening Improvements	180	1,560	0	0	0	0	0	35	1,775
WS 108	North Fayetteville Lift Station Upgrades	3,152	2,975	3,665	4,165	870	0	639	501	15,967
<b>TOTAL PLANT IMPROVEMENTS-W/WW</b>		<b>7,187</b>	<b>4,535</b>	<b>3,665</b>	<b>4,165</b>	<b>870</b>	<b>0</b>	<b>711</b>	<b>811</b>	<b>21,944</b>
<b>PLANT EXPANSION-W/WW</b>										
WS 27	PO Hoffer WTF Capacity Expansion, Phase 2 – Expansion	730	755	380	8,170	15,235	13,860	0	1,200	40,330
WS 28	PO Hoffer WTF Capacity Expansion, Phase 3 – Residuals I	308	330	215	89	6,627	4,361	0	0	11,930
WS 95	Rockfish Creek WRF Expansion, Phase 3	395	770	5,780	10,630	5,270	0	0	75	22,920
<b>TOTAL PLANT EXPANSION-W/WW</b>		<b>1,433</b>	<b>1,855</b>	<b>6,375</b>	<b>18,889</b>	<b>27,132</b>	<b>18,221</b>	<b>0</b>	<b>1,275</b>	<b>75,180</b>
<b>HURRICANE MATTHEW-W/WW</b>										
WS 26	Hoffer 1B Hurricane Matthew Related Repairs	141	0	0	0	0	0	0	531	672
WS 43	Hurricane Matthew Improvement of Water Facilities	345	0	0	0	0	0	6	493	844
WS 44	Rockfish Creek WRF Filters #1 - #6 Rehabilitation	2,375	0	0	0	0	0	0	335	2,710
WS 45	Hoffer Raw Water Intake Screen Repair and Mitigation	940	0	0	0	0	0	0	155	1,095
WS 91	Hurricane Matthew Improvement of Sewer Facilities	1,690	0	0	0	0	0	70	1,377	3,137

# SUMMARY BY CATEGORY

REF #	PROJECT NAME	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	PRE-FY 2018	FY 2018 EST.	TOTAL COST
(Dollars in thousands)										
WS 97	Rockfish Creek WRF Effluent Outfall Repairs	705	0	0	0	0	0	0	175	880
WS 119	Kennedy Street Aerial Sewer Replacement	175	0	0	0	0	0	0	50	225
	<b>TOTAL HURRICANE MATTHEW-W/WW</b>	<b>6,371</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>76</b>	<b>3,115</b>	<b>9,562</b>
<b>OTHER W/WW SYSTEM IMPROVEMENTS</b>										
WS 1	Land and Land Rights - Water	19	19	19	19	19	19	3	30	147
WS 8	North Fayetteville Water System Improvements	430	0	0	0	0	0	2,905	3,240	6,575
WS 10	Market House Water Main Replacement	522	0	0	0	0	0	44	576	1,142
WS 11	Braxton Road 12" Water Main Extension	0	0	75	260	195	0	0	0	530
WS 16	Replace Existing Water Mains not Encased Under Railroad	980	880	880	655	0	0	653	184	4,232
WS 20	Utility Improvements for the Town of Hope Mills Stormwater	380	75	50	50	50	50	48	37	740
WS 21	Chicken Foot Road 16" Water Main Interconnect	200	1,040	455	0	0	0	0	0	1,695
WS 22	West Fayetteville Pressure Zone Improvements	0	0	210	2,960	5,520	2,370	0	0	11,060
WS 23	Russell St Water Main Replacement, Gillespie to Eastern	130	0	0	0	0	0	933	913	1,976
WS 24	Sandhill Road 12" Water Main Extension	0	0	0	0	150	585	0	0	735
WS 25	High Pressure Zone Transmission Water Main Improvermer	0	265	265	365	515	3,365	0	0	4,775
WS 42	US HWY 401 North Water Improvements	3,230	2,154	0	0	0	0	49	441	5,874
WS 48	Cliffdale Road Transmission Water Main Improvements	0	130	930	720	0	0	0	0	1,780
WS 51	Gillespie Street Water Main Replacement	0	0	80	510	1,385	0	0	0	1,975
WS 52	Glennville Water Main Replacement, Filter Plant to Coley	30	145	320	0	0	0	0	0	495
WS 53	Cottonade Water Main Replacement	55	2,845	0	0	0	0	0	215	3,115
WS 54	Scottsdale Water Main Replacement	615	1,045	0	0	0	0	0	160	1,820
WS 57	Land and Land Rights - Sewer	19	19	19	19	19	19	2	90	206
WS 62	Utility Improvements for the Town of Hope Mills Stormwater	160	75	50	50	50	50	45	9	489
WS 64	Carver's Creek (North Fayetteville) Sewer Line	4,405	1,640	0	0	0	0	143	192	6,380
WS 67	Ann Street Sewer Relocation (Aerial Crossing)	365	0	0	0	0	0	31	11	407
WS 74	Clifton Drive Sewer Main Relocation	1,423	0	0	0	0	0	24	15	1,462
WS 76	Old Wilmington Road Sewer Upgrades	0	0	0	55	410	510	5	0	980
WS 77	Legion Road Sewer Improvements	3,112	0	0	0	0	0	599	2,128	5,839
WS 78	Murchison Road Sewer Improvements, (Jasper St. to Murct	15	1,615	0	0	0	0	20	10	1,660
WS 79	B Street Parallel Sewer	0	0	85	345	605	3,610	0	0	4,645
WS 84	Longview Lift Station and Force Main Upgrade	85	635	1,010	0	0	0	0	0	1,730
WS 103	Rockfish Creek Basin Peak Flow Facilities	2,095	8,172	8,132	0	0	0	90	323	18,812
WS 109	Neal St. Lift Station # 11 & Force Main Replacement	290	1,515	640	0	0	0	24	5	2,474
WS 110	Freedom Town Center Sewer Replacement	810	0	0	0	0	0	0	110	920
WS 113	Branson Creek Interceptor Replacement, Phase I	0	0	35	215	485	0	0	0	735
WS 114	Branson Creek Interceptor Replacement, Phase II	0	0	0	55	435	860	0	0	1,350
	<b>TOTAL OTHER W/WW SYSTEM IMPROVEMENTS</b>	<b>19,370</b>	<b>22,269</b>	<b>13,255</b>	<b>6,278</b>	<b>9,838</b>	<b>11,438</b>	<b>5,618</b>	<b>8,689</b>	<b>96,755</b>
<b>BUTLER WARNER GENERATION PLANT</b>										
EL 58	BWGP Valve Actuator Upgrade	55	0	0	0	0	0	117	55	227
EL 60	BWGP 72.5 kV Power Circuit Breaker Replacement	0	1,000	0	0	0	0	0	0	1,000
	<b>TOTAL BUTLER WARNER GENERATION PLANT</b>	<b>55</b>	<b>1,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>117</b>	<b>55</b>	<b>1,227</b>
<b>SUBSTATIONS</b>										
EL 9	UG Feeder Exit Replacement Substations	125	500	500	500	350	400	14	155	2,544
EL 29	Distribution Substation Equipment Replacement	100	100	100	100	100	100	7	50	657
EL 32	T/D Substation Control Building Replacement	250	250	250	250	250	250	0	0	1,500
EL 33	Transmission - Distribution Substation Oil Containment Sys	300	0	0	0	0	0	0	0	300
EL 34	Fenix 67-25 kV Substation Upgrade	1,750	50	0	0	0	0	614	975	3,389
EL 35	Fenix 67-25 kV Substation Distribution Feeder Installation	200	375	0	0	0	0	0	50	625
EL 36	Lafayette Village 67-12 kV Substation Rebuild	300	0	0	0	0	0	913	1,350	2,563

# SUMMARY BY CATEGORY

REF #	PROJECT NAME	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	PRE-FY 2018	FY 2018 EST.	TOTAL COST
<b>(Dollars in thousands)</b>										
EL 37	Murray Fork 66- 25 kV Substation Power Transformer Upgr	750	0	0	0	0	0	0	10	760
EL 38	Bordeaux 67-12 kV Substation Rebuild	75	2,200	0	0	0	0	0	0	2,275
EL 39	Black & Decker Substation Rebuild	0	100	1,800	0	0	0	0	0	1,900
EL 40	Hogan Street 67-12 kV Substation Transformer Replaceme	0	0	0	0	875	0	0	0	875
EL 41	POD II Rebuild	125	0	0	0	0	0	4,253	778	5,156
EL 42	POD III Relaying Upgrade	100	1,200	0	0	0	0	0	0	1,300
EL 43	POD IV 230-66 kV Substation	0	0	125	250	7,875	10,500	3	1,400	20,153
EL 44	POD V 230-66 kV Substation Property Acquisition	750	0	0	0	0	0	0	0	750
EL 45	ROW Additions Distribution	50	150	150	150	150	150	16	0	816
EL 65	FTI 66-12 kV Substation Rebuild and Relocation	0	1,000	3,000	500	0	0	0	0	4,500
EL 66	PO Hoffer 66-12 kV Substation Rebuild	0	0	1,000	1,000	0	0	0	0	2,000
	<b>TOTAL SUBSTATIONS</b>	<b>4,875</b>	<b>5,925</b>	<b>6,925</b>	<b>2,750</b>	<b>9,600</b>	<b>11,400</b>	<b>5,820</b>	<b>4,768</b>	<b>52,063</b>
<b>LIGHTING</b>										
EL 3	LED Area Lights - Replacements/Conversion	750	750	0	0	0	0	199	531	2,230
EL 4	LED Area Lights - New Installations	350	350	325	325	300	300	367	328	2,645
EL 13	Bragg Boulevard Gateway Improvement - Phase II	0	0	0	0	1,150	1,150	0	0	2,300
EL 16	Street Lights - LED Conversion	1,000	0	0	0	0	0	6,177	1,024	8,201
EL 17	Thoroughfare LED Roadway Lighting-Conversion	1,000	500	0	0	0	0	489	569	2,558
EL 18	Thoroughfare LED Lighting - New Installations	50	50	50	50	50	50	0	20	320
EL 19	Street Lights - Contract Lighting LED Replacement/Convers	750	500	0	0	0	0	141	1,024	2,415
EL 20	Street Lights - Contract Lighting - New LED Installations	100	100	100	100	100	100	0	25	625
EL 46	Fayetteville Ball Park	550	0	0	0	0	0	0	0	550
	<b>TOTAL LIGHTING</b>	<b>4,550</b>	<b>2,250</b>	<b>475</b>	<b>475</b>	<b>1,600</b>	<b>1,600</b>	<b>7,373</b>	<b>3,521</b>	<b>21,844</b>
<b>ELECTRIC SYSTEM IMPROVEMENTS</b>										
EL 7	Underground Infrastructure Replacement - Residential	1,200	1,300	1,500	1,700	1,500	1,500	384	1,280	10,364
EL 8	Underground Infrastructure Replacement - Non Residential	1,100	1,200	1,300	1,400	1,500	1,600	511	525	9,136
EL 10	Underground Distribution Infrastructure Replacements (Nor	850	850	1,000	1,000	1,000	1,000	785	750	7,235
EL 11	Overhead Distribution System Circuit Improvements	50	50	100	100	150	200	1	35	686
EL 12	Distribution System Sectionalizing	250	250	500	500	250	250	840	225	3,065
EL 14	Beaver Creek 12 kV Circuit Relocation	525	0	0	0	0	0	0	20	545
EL 15	Overhead Infrastructure Improvements	1,000	1,000	1,500	1,500	1,000	1,000	748	987	8,735
EL 21	Conservation Load Reduction (CVR)	1,000	2,000	0	0	0	0	611	750	4,361
EL 22	System Reactive Power Compensation	300	300	250	200	150	100	516	150	1,966
EL 24	SONET Communications for Smart Grid	400	400	0	0	0	0	2	715	1,517
EL 25	Distribution Automation	600	750	1,250	1,500	1,500	1,500	48	225	7,373
EL 26	Sub-Transmission Pole Replacement	250	2,500	2,500	1,500	1,500	1,500	1,190	952	11,892
EL 27	66 kV System Sectionalizing Improvements	300	300	300	300	300	300	120	245	2,165
EL 28	Distribution Circuit Breaker Replacement	350	350	350	350	350	350	186	434	2,720
EL 30	T/D Sub Differential and Back-Up Overcurrent Relay Repl	100	100	100	100	100	100	41	174	815
EL 31	T/D Sub 66 kV Power Transformer Protection Equipment U	500	500	500	500	500	500	227	467	3,694
EL 59	Heat Exchanger Upgrade	310	310	310	0	0	0	0	0	930
	<b>TOTAL ELECTRIC SYSTEM IMPROVEMENTS</b>	<b>9,085</b>	<b>12,160</b>	<b>11,460</b>	<b>10,650</b>	<b>9,800</b>	<b>9,900</b>	<b>6,210</b>	<b>7,934</b>	<b>77,199</b>
	<b>TOTAL ALL PROJECTS</b>	<b>118,225</b>	<b>122,093</b>	<b>122,331</b>	<b>133,235</b>	<b>128,131</b>	<b>121,446</b>	<b>98,723</b>	<b>73,039</b>	<b>917,222</b>

# SUMMARY BY FUNDING SOURCE

REF #	PROJECT NAME	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	PRE-FY 2018	FY 2018 EST.	TOTAL COST
<i>(Dollars in thousands)</i>										
<b>CUSTOMER PROGRAMS</b>										
CP 1	Electric Meters and Metering Equipment	235	238	240	242	245	247	133	234	1,814
	<b>ELECTRIC FUND</b>	<b>235</b>	<b>238</b>	<b>240</b>	<b>242</b>	<b>245</b>	<b>247</b>	<b>133</b>	<b>234</b>	<b>1,814</b>
CP 2	Water Meters	296	299	302	305	308	311	214	296	2,331
	<b>WATER/SEWER FUND</b>	<b>296</b>	<b>299</b>	<b>302</b>	<b>305</b>	<b>308</b>	<b>311</b>	<b>214</b>	<b>296</b>	<b>2,331</b>
	<b>TOTAL CUSTOMER PROGRAMS</b>	<b>531</b>	<b>537</b>	<b>542</b>	<b>547</b>	<b>553</b>	<b>558</b>	<b>347</b>	<b>530</b>	<b>4,145</b>
<b>CORPORATE SERVICES</b>										
CS 1	Robert C. Williams Business Center Upfit	0	60	60	60	60	60	117	0	417
CS 2	R C Williams Roof Replacement	50	0	0	0	0	0	0	298	348
CS 3	Multipurpose Building	0	300	8,700	1,040	0	0	0	0	10,040
CS 4	Upgrade Warehouse Yard	320	50	0	0	0	0	0	85	455
CS 5	Replace Operations Building Roof	600	0	0	0	0	0	0	0	600
CS 6	Replace Warehouse Roof	0	325	0	0	0	0	0	0	325
CS 7	Replace Administration Building Roof	0	0	180	0	0	0	0	0	180
CS 8	OMS Software and Implementation	438	0	25	0	25	0	0	0	488
CS 9	IS DR Solution	210	0	50	0	50	0	0	0	310
	<b>ELECTRIC FUND</b>	<b>1,618</b>	<b>735</b>	<b>9,015</b>	<b>1,100</b>	<b>135</b>	<b>60</b>	<b>117</b>	<b>383</b>	<b>13,162</b>
CS 4	Upgrade Warehouse Yard	320	50	0	0	0	0	0	85	455
CS 6	Replace Warehouse Roof	0	325	0	0	0	0	0	0	325
CS 8	OMS Software and Implementation	438	0	25	0	25	0	0	0	488
CS 9	IS DR Solution	210	0	50	0	50	0	0	0	310
	<b>WATER FUND</b>	<b>968</b>	<b>375</b>	<b>75</b>	<b>0</b>	<b>75</b>	<b>0</b>	<b>0</b>	<b>85</b>	<b>1,578</b>
CS 10	Fleet Bay Expansion	600	5,400	3,200	0	0	0	120	0	9,320
	<b>FLEET MAINTENANCE FUND</b>	<b>600</b>	<b>5,400</b>	<b>3,200</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120</b>	<b>0</b>	<b>9,320</b>
	<b>TOTAL CORPORATE SERVICES</b>	<b>3,185</b>	<b>6,510</b>	<b>12,290</b>	<b>1,100</b>	<b>210</b>	<b>60</b>	<b>237</b>	<b>468</b>	<b>24,060</b>
<b>WATER RESOURCES</b>										
WS 1	Land and Land Rights - Water	19	19	19	19	19	19	3	30	147
WS 2	New Water Service Laterals and Water Main Extensions	618	638	657	677	697	717	592	455	5,051
WS 3	Water Lateral Renewals (PWC Forces)	970	1,019	1,070	1,123	1,179	1,238	993	871	8,463
WS 4	New Hydrant and Valve Installation	122	124	126	128	130	133	132	90	985
WS 6	NCDOT B-4491 Bridge # 22 Replacement, NC 59 over I-95 I	20	5	0	0	0	0	0	5	30
WS 7	NCDOT U-6072 SR1112 (Rockfish Rd) from Strickland Bridg	0	0	0	150	200	120	0	0	470
WS 9	NCDOT U-6073 Fisher Rd. from Strickland Bridge Rd. to NC	0	0	0	150	200	120	0	0	470
WS 11	Braxton Road 12" Water Main Extension	0	0	75	260	195	0	0	0	530
WS 13	COF - Storm Water Utility Improvements for City of Fayettev	773	773	773	270	270	270	54	242	3,425
WS 14	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oaks	625	710	361	190	0	0	525	730	3,141
WS 15	NCDOT W-5601FO Roundabout at Baywood Rd. and Murph	215	0	0	0	0	0	0	0	215
WS 16	Replace Existing Water Mains not Encased Under Railroad (	980	880	880	655	0	0	653	184	4,232
WS 17	Glenville Lake Filter Control System Upgrades	805	0	0	0	0	0	0	99	904
WS 18	City of Fayetteville Legend Avenue Extension Water	79	0	0	0	0	0	1	0	80
WS 19	Utility Improvements for the NCDOT Resurfacing and Storm	90	90	90	90	90	90	139	7	686
WS 20	Utility Improvements for the Town of Hope Mills Stormwater	380	75	50	50	50	50	48	37	740
WS 21	Chicken Foot Road 16" Water Main Interconnect	200	1,040	455	0	0	0	0	0	1,695

# SUMMARY BY FUNDING SOURCE

REF #	PROJECT NAME	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	PRE-FY 2018	FY 2018 EST.	TOTAL COST
<i>(Dollars in thousands)</i>										
WS 22	West Fayetteville Pressure Zone Improvements	0	0	210	2,960	5,520	2,370	0	0	11,060
WS 24	Sandhill Road 12" Water Main Extension	0	0	0	0	150	585	0	0	735
WS 25	High Pressure Zone Transmission Water Main Improvement	0	265	265	365	515	3,365	0	0	4,775
WS 27	PO Hoffer WTF Capacity Expansion, Phase 2 – Expansion	730	0	0	0	0	0	0	0	730
WS 28	PO Hoffer WTF Capacity Expansion, Phase 3 – Residuals F	308	0	0	0	0	0	0	0	308
WS 29	NCDOT B-4490, Bridge # 116 Replacement, over CSX RR, I	25	0	0	0	0	0	36	10	71
WS 30	NCDOT U2519CB Fay Outer Lp WM Relocation	10	0	0	0	0	0	6	9	25
WS 31	COF - Ann Street Bridge - Water Replacement	365	0	0	0	0	0	1	32	398
WS 32	Structural Improvements at Glenville WTP	535	0	0	0	0	0	24	40	598
WS 33	NCDOT U-2519C A/B-5516 Fayetteville Outer Loop South of	20	20	15	0	0	0	0	15	70
WS 34	NCDOT U-2519B A/BB Fayetteville Outer Loop from South of	15	15	15	15	178	0	0	10	248
WS 35	NCDOT U-4403 Ramsey Street Widening - Water	800	1,700	875	275	275	140	0	0	4,065
WS 36	NCDOT U-4404 Cliffdale Road Widening - Water	80	205	200	125	135	50	0	0	795
WS 37	NCDOT U-4900 Murchison Road Widening - Water	80	205	200	125	135	50	0	0	795
WS 38	NCDOT U-5101 Shaw Rd to Stacey Weaver Dr Widening - W	0	0	175	885	440	170	0	0	1,670
WS 39	NCDOT U-5798 Gillis Hill Road Widening - Water	130	250	135	55	55	55	0	0	680
WS 40	NCDOT U-3422 Camden Rd Widening - Water	130	285	205	60	60	60	0	0	800
WS 41	COF Louise Street Water Relocation	15	95	0	0	0	0	0	1	111
WS 46	PO Hoffer WTF 60" Slide Gate Replacement	230	0	0	0	0	0	0	10	240
WS 47	City of Fayetteville Martindale Dr. City Storm Drain Improv	295	0	0	0	0	0	0	0	295
WS 48	Cliffdale Road Transmission Water Main Improvements	0	130	930	720	0	0	0	0	1,780
WS 49	NCDOT U-2519A A/AB - Fayetteville Outer Loop from South of	20	15	15	15	0	0	0	20	85
WS 50	NCDOT U-4414 - All American Freeway Widening from Owe	0	0	0	0	5	45	0	0	50
WS 51	Gillespie Street Water Main Replacement	0	0	80	510	1,385	0	0	0	1,975
WS 52	Glenville Water Main Replacement, Filter Plant to Coley	30	145	320	0	0	0	0	0	495
WS 55	NCDOT U-4709 Rockfish Road, Golfview Drive to NC 59 - W	0	55	140	80	5	5	0	0	285
WS 57	Land and Land Rights - Sewer	19	19	19	19	19	19	2	90	206
WS 58	New Sewer Service Laterals and Sewer Main Extensions	500	526	552	580	609	640	511	447	4,365
WS 59	Sewer Lateral Renewals (PWC Forces)	825	845	867	889	911	934	698	623	6,592
WS 60	City of Fayetteville - Legend Avenue Extension Sewer	104	0	0	0	0	0	0	0	104
WS 61	Utility Improvements for the NCDOT Resurfacing and Storm	10	10	10	10	10	10	8	5	73
WS 62	Utility Improvements for the Town of Hope Mills Stormwater	160	75	50	50	50	50	45	9	489
WS 65	NCDOT B-4491 Bridge # 22 Replacement, NC 59 over I-95 I	15	5	0	0	0	0	0	5	25
WS 67	Ann Street Sewer Relocation (Aerial Crossing)	365	0	0	0	0	0	31	11	407
WS 68	COF Louise Street Sewer Relocation	15	95	0	0	0	0	0	1	111
WS 69	NCDOT U-6073 Fisher Rd. from Strickland Bridge Rd. to NC	0	0	0	150	200	120	0	0	470
WS 70	COF Storm Sewer Utility Improvements for City of Fayettevill	729	729	729	221	221	221	40	48	2,938
WS 71	NCDOT B-4490, Bridge #116 Replacement, over CSX RR &	60	60	0	0	0	0	41	18	179
WS 72	NCDOT U-2519C A/B-5516 Fayetteville Outer Loop South of	20	20	15	0	0	0	0	15	70
WS 73	NCDOT U-2519B A/BB Fayetteville Outer Loop from South of	10	10	10	10	5	0	0	5	50
WS 78	Murchison Road Sewer Improvements, (Jasper St. to Murchi	15	1,615	0	0	0	0	20	10	1,660
WS 83	Big Rockfish Sanitary Sewer Outfall	625	175	125	410	70	0	0	0	1,405
WS 84	Longview Lift Station and Force Main Upgrade	85	35	35	0	0	0	0	0	155
WS 85	NCDOT U-4403 Ramsey Street Widening - Sewer	300	850	340	140	140	140	0	0	1,910
WS 86	NCDOT U-4404 Cliffdale Road Widening - Sewer	30	70	70	55	40	30	0	0	295
WS 87	NCDOT U-4900 Murchison Road Widening - Sewer	30	70	70	55	40	30	0	0	295
WS 88	NCDOT U-5101 Shaw Rd to Stacey Weaver Dr Widening - S	0	0	90	320	165	45	0	0	620
WS 89	NCDOT U-5798 Gillis Hill Road Widening - Sewer	20	68	48	25	20	20	0	0	201
WS 90	NCDOT U-3422 Camden Rd Widening - Sewer	25	63	48	25	20	20	0	0	201
WS 94	Rockfish Creek WRF Secondary Clarifier Rehabilitation	755	0	0	0	0	0	0	0	755
WS 95	Rockfish Creek WRF Expansion, Phase 3	395	0	0	0	0	0	0	0	395
WS 96	Rockfish Creek WRF Screening Improvements	180	1,560	0	0	0	0	0	35	1,775
WS 99	Sanitary Sewer Manhole Rehabilitation	1,830	2,000	2,100	2,200	2,300	2,400	1,180	1,580	15,590

# SUMMARY BY FUNDING SOURCE

REF #	PROJECT NAME	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	PRE-FY 2018	FY 2018 EST.	TOTAL COST
<i>(Dollars in thousands)</i>										
WS 101	Line 54" Outfall - Research Drive to I-95	10	0	0	0	0	0	0	0	10
WS 103	Rockfish Creek Basin Peak Flow Facilities	662	95	70	0	0	0	0	0	827
WS 104	NCDOT U-6072 SR1112 (Rockfish Rd) from Strickland Bridge to I-95	0	0	0	150	200	120	0	0	470
WS 105	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oaks	110	50	50	50	0	0	184	581	1,025
WS 106	COF Ann Street Bridge - Sewer Replacement	365	0	0	0	0	0	1	183	549
WS 107	Lift Stations #5 and #28- Wet Well Rehabilitation	485	0	0	0	0	0	0	0	485
WS 109	Neal St. Lift Station # 11 & Force Main Replacement	290	1,515	640	0	0	0	24	5	2,474
WS 110	Freedom Town Center Sewer Replacement	810	0	0	0	0	0	0	110	920
WS 111	Rehabilitation of the Cape Fear Outfall, Hoffer to Cross Creek	1,210	0	0	0	0	0	0	0	1,210
WS 112	Rehabilitation of the Blounts Creek Outfall, Campbell to Russett	0	0	610	0	0	0	0	0	610
WS 113	Branson Creek Interceptor Replacement, Phase I	0	0	35	215	485	0	0	0	735
WS 114	Branson Creek Interceptor Replacement, Phase II	0	0	0	55	435	860	0	0	1,350
WS 115	NCDOT U-4414 - All American Freeway Widening from Owe	0	0	0	0	5	45	0	0	50
WS 116	NCDOT U-4709 Rockfish Road, Golfview Drive to NC 59 - S	0	10	30	15	5	5	0	0	65
WS 117	NCDOT W-5601CD - Medians and Leftovers on US 301/East	5	5	0	0	0	0	0	3	13
WS 118	NCDOT U-2519AA/AB - Fayetteville Outer Loop from South	20	15	15	15	0	0	0	15	80
WS 119	Kennedy Street Aerial Sewer Replacement	55	0	0	0	0	0	0	50	105
<b>WATER/SEWER FUND</b>		<b>20,858</b>	<b>19,348</b>	<b>14,964</b>	<b>15,611</b>	<b>17,838</b>	<b>15,361</b>	<b>5,992</b>	<b>6,747</b>	<b>116,718</b>
WS 10	Market House Water Main Replacement	522	0	0	0	0	0	44	576	1,142
<b>RESERVE (INCLUDED IN W/SS FUND)</b>		<b>522</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>44</b>	<b>576</b>	<b>1,142</b>
WS 105	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oaks	150	0	0	482	0	0	0	0	632
WS 14	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oaks	0	0	0	3,294	0	0	0	0	3,294
<b>PARTICIPATION (INCLUDED IN W/SS FUND)</b>		<b>150</b>	<b>0</b>	<b>0</b>	<b>3,776</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,926</b>
<b>TOTAL WATER/SEWER FUND</b>		<b>21,530</b>	<b>19,348</b>	<b>14,964</b>	<b>19,387</b>	<b>17,838</b>	<b>15,361</b>	<b>6,036</b>	<b>7,323</b>	<b>121,786</b>
WS 83	Big Rockfish Sanitary Sewer Outfall	0	800	8,300	8,300	200	0	0	0	17,600
WS 84	Longview Lift Station and Force Main Upgrade	0	600	975	0	0	0	0	0	1,575
WS 103	Rockfish Creek Basin Peak Flow Facilities	1,433	8,077	8,062	0	0	0	90	323	17,985
<b>NC STATE LOAN FUND</b>		<b>1,433</b>	<b>9,477</b>	<b>17,337</b>	<b>8,300</b>	<b>200</b>	<b>0</b>	<b>90</b>	<b>323</b>	<b>37,160</b>
WS 6	NCDOT B-4491 Bridge # 22 Replacement, NC 59 over I-95 I	0	400	0	0	0	0	0	0	400
WS 14	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oaks	0	0	0	14,506	0	0	0	0	14,506
WS 15	NCDOT W-5601FO Roundabout at Baywood Rd. and Murph	0	0	0	0	0	0	0	0	0
WS 29	NCDOT B-4490, Bridge # 116 Replacement, over CSX RR, i	0	55	0	0	0	0	0	0	55
WS 30	NCDOT U2519CB Fay Outer Lp WM Relocation	600	0	0	0	0	0	0	0	600
WS 33	NCDOT U-2519C A/B-5516 Fayetteville Outer Loop South of	0	0	535	0	0	0	0	0	535
WS 34	NCDOT U-2519B A/BB Fayetteville Outer Loop from South c	0	0	0	0	1,681	0	0	0	1,681
WS 49	NCDOT U-2519A A/AB - Fayetteville Outer Loop from South	0	0	0	550	0	0	0	0	550
WS 65	NCDOT B-4491 Bridge # 22 Replacement, NC 59 over I-95 I	0	185	0	0	0	0	0	0	185
WS 71	NCDOT B-4490, Bridge #116 Replacement, over CSX RR &	0	375	0	0	0	0	0	0	375
WS 72	NCDOT U-2519C A/B-5516 Fayetteville Outer Loop South of	0	0	285	0	0	0	0	0	285
WS 73	NCDOT U-2519B A/BB Fayetteville Outer Loop from South c	0	0	0	0	10	0	0	0	10
WS 105	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oaks	0	30	20	538	0	0	0	0	588
WS 117	NCDOT W-5601CD - Medians and Leftovers on US 301/Eas	0	75	0	0	0	0	0	0	75
WS 118	NCDOT U-2519AA/AB - Fayetteville Outer Loop from South	0	0	0	670	0	0	0	0	670
<b>NC DOT RESERVE-W/WW</b>		<b>600</b>	<b>1,120</b>	<b>840</b>	<b>16,264</b>	<b>1,691</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,515</b>
WS 12	Phase V Annexation - Water Main Extension	174	880	788	353	1,195	4,121	194	1,197	8,902
WS 34	NCDOT U-2519B A/BB Fayetteville Outer Loop from South c	0	0	0	0	1,419	0	0	0	1,419
WS 63	Phase V Annexation	19,744	18,992	23,250	22,215	24,218	23,375	52,791	19,000	203,585

# SUMMARY BY FUNDING SOURCE

REF #	PROJECT NAME	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	PRE-FY 2018	FY 2018 EST.	TOTAL COST
<i>(Dollars in thousands)</i>										
WS 73	NCDOT U-2519B A/BB Fayetteville Outer Loop from South c	0	0	0	0	1,725	0	0	0	1,725
	<b>ANNEX V RESERVE</b>	<b>19,918</b>	<b>19,872</b>	<b>24,038</b>	<b>22,568</b>	<b>28,557</b>	<b>27,496</b>	<b>52,985</b>	<b>20,197</b>	<b>215,631</b>
WS 5	Water Distribution System Rehabilitation	5,500	6,000	6,750	7,500	8,500	9,500	4,119	5,000	52,869
WS 8	North Fayetteville Water System Improvements	430	0	0	0	0	0	2,905	3,240	6,575
WS 23	Russell St Water Main Replacement, Gillespie to Eastern	130	0	0	0	0	0	933	913	1,976
WS 27	PO Hoffer WTF Capacity Expansion, Phase 2 – Expansion	0	755	380	8,170	15,235	13,860	0	1,200	39,600
WS 28	PO Hoffer WTF Capacity Expansion, Phase 3 – Residuals F	0	330	215	89	6,627	4,361	0	0	11,622
WS 42	US HWY 401 North Water Improvements	3,230	2,154	0	0	0	0	49	441	5,874
WS 53	Cottonade Water Main Replacement	55	2,845	0	0	0	0	0	215	3,115
WS 54	Scottsdale Water Main Replacement	615	1,045	0	0	0	0	0	160	1,820
WS 64	Carver's Creek (North Fayetteville) Sewer Line	4,405	1,640	0	0	0	0	143	192	6,380
WS 66	Lift Station Wet Well Rehabilitation - North Fayetteville & Cyf	180	0	0	0	0	0	20	757	957
WS 74	Clifton Drive Sewer Main Relocation	1,423	0	0	0	0	0	24	15	1,462
WS 75	Line the Cross Creek Outfall, Blue Street to Gale Street	320	3,520	0	0	0	0	0	326	4,166
WS 76	Old Wilmington Road Sewer Upgrades	0	0	0	55	410	510	5	0	980
WS 77	Legion Road Sewer Improvements	3,112	0	0	0	0	0	599	2,128	5,839
WS 79	B Street Parallel Sewer	0	0	85	345	605	3,610	0	0	4,645
WS 80	Line Beaver Creek Outfall, Phase I	2,500	0	0	0	0	0	0	7	2,507
WS 81	Line Beaver Creek Outfall, Phase II	0	1,250	1,250	0	0	0	0	0	2,500
WS 82	Line the Beaver Creek Outfall, Phase III	0	0	0	0	0	1,080	0	0	1,080
WS 92	Rehab Cross Creek Influent Pump Station	2,360	4,860	0	0	0	0	37	280	7,537
WS 93	Cross Creek WRF Secondary Screening Improvements	1,530	0	0	0	0	0	48	125	1,703
WS 95	Rockfish Creek WRF Expansion, Phase 3	0	770	5,780	10,630	5,270	0	0	75	22,525
WS 98	Lift Station Rehabilitation	355	810	585	0	0	0	0	0	1,750
WS 100	Sanitary Sewer Main Rehabilitation	5,500	6,000	7,000	8,000	9,000	10,000	4,276	4,941	54,717
WS 101	Line 54" Outfall - Research Drive to I-95	0	815	1,215	0	0	0	0	0	2,030
WS 102	Line 54" Outfall - I-95 to Claude Lee Road	0	0	10	715	1,415	0	0	0	2,140
WS 108	North Fayetteville Lift Station Upgrades	3,152	2,975	3,665	4,165	870	0	639	501	15,967
	<b>BONDS</b>	<b>34,797</b>	<b>35,769</b>	<b>26,935</b>	<b>39,669</b>	<b>47,932</b>	<b>42,921</b>	<b>13,797</b>	<b>20,517</b>	<b>262,337</b>
WS 26	Hoffer 1B Hurricane Matthew Related Repairs	141	0	0	0	0	0	0	531	672
WS 43	Hurricane Matthew Improvement of Water Facilities	345	0	0	0	0	0	6	493	844
WS 44	Rockfish Creek WRF Filters #1 - #6 Rehabilitation	2,375	0	0	0	0	0	0	335	2,710
WS 45	Hoffer Raw Water Intake Screen Repair and Mitigation	940	0	0	0	0	0	0	155	1,095
WS 91	Hurricane Matthew Improvement of Sewer Facilities	1,690	0	0	0	0	0	70	1,377	3,137
WS 97	Rockfish Creek WRF Effluent Outfall Repairs	705	0	0	0	0	0	0	175	880
WS 119	Kennedy Street Aerial Sewer Replacement	120	0	0	0	0	0	0	0	120
	<b>HURRICANE MATTHEW CAPITAL PROJECT FUND</b>	<b>6,316</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>76</b>	<b>3,065</b>	<b>9,457</b>
	<b>TOTAL OTHER FUNDS</b>	<b>63,064</b>	<b>66,238</b>	<b>69,150</b>	<b>86,801</b>	<b>78,380</b>	<b>70,417</b>	<b>66,948</b>	<b>44,102</b>	<b>545,100</b>
	<b>TOTAL WATER RESOURCES</b>	<b>84,594</b>	<b>85,586</b>	<b>84,114</b>	<b>106,188</b>	<b>96,218</b>	<b>85,778</b>	<b>72,984</b>	<b>51,425</b>	<b>666,886</b>
	<b>ELECTRIC SYSTEMS</b>									
EL 1	Underground Distribution Infrastructure Installations – New	1,500	1,550	1,600	1,650	1,700	1,750	1,454	1,450	12,654
EL 2	Overhead Infrastructure Installation - New	50	50	50	50	50	50	55	47	402
EL 4	LED Area Lights - New Installations	350	350	325	325	300	300	367	328	2,645
EL 5	Padmount Transformers	850	850	850	850	850	850	611	840	6,551
EL 6	Overhead Transformers	400	400	400	400	400	400	410	375	3,185
EL 7	Underground Infrastructure Replacement - Residential	1,200	1,300	1,500	1,700	1,500	1,500	384	1,280	10,364
EL 8	Underground Infrastructure Replacement - Non Residential	1,100	1,200	1,300	1,400	1,500	1,600	511	525	9,136

# SUMMARY BY FUNDING SOURCE

REF #	PROJECT NAME	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	PRE-FY 2018	FY 2018 EST.	TOTAL COST
(Dollars in thousands)										
EL 9	UG Feeder Exit Replacement Substations	125	500	500	500	350	400	14	155	2,544
EL 10	Underground Distribution Infrastructure Replacements (Non-	850	850	1,000	1,000	1,000	1,000	785	750	7,235
EL 11	Overhead Distribution System Circuit Improvements	50	50	100	100	150	200	1	35	686
EL 12	Distribution System Sectionalizing	250	250	500	500	250	250	840	225	3,065
EL 13	Bragg Boulevard Gateway Improvement - Phase II	0	0	0	0	1,150	1,150	0	0	2,300
EL 14	Beaver Creek 12 kV Circuit Relocation	525	0	0	0	0	0	0	20	545
EL 15	Overhead Infrastructure Improvements	1,000	1,000	1,500	1,500	1,000	1,000	748	987	8,735
EL 18	Thoroughfare LED Lighting - New Installations	50	50	50	50	50	50	0	20	320
EL 20	Street Lights - Contract Lighting - New LED Installations	100	100	100	100	100	100	0	25	625
EL 22	System Reactive Power Compensation	300	300	250	200	150	100	516	150	1,966
EL 23	Fiber Optic Cable Line Extensions For Electric System Autor	400	400	700	700	700	700	109	375	4,084
EL 24	SONET Communications for Smart Grid	400	400	0	0	0	0	2	715	1,517
EL 25	Distribution Automation	600	750	1,250	1,500	1,500	1,500	48	225	7,373
EL 26	Sub-Transmission Pole Replacement	250	2,500	2,500	1,500	1,500	1,500	1,190	952	11,892
EL 27	66 kV System Sectionalizing Improvements	300	300	300	300	300	300	120	245	2,165
EL 28	Distribution Circuit Breaker Replacement	350	350	350	350	350	350	186	434	2,720
EL 29	Distribution Substation Equipment Replacement	100	100	100	100	100	100	7	50	657
EL 30	T/D Sub Differential and Back-Up Overcurrent Relay Repl	100	100	100	100	100	100	41	174	815
EL 31	T/D Sub 66 kV Power Transformer Protection Equipment Up	500	500	500	500	500	500	227	467	3,694
EL 32	T/D Substation Control Building Replacement	250	250	250	250	250	250	0	0	1,500
EL 33	Transmission - Distribution Substation Oil Containment Syst	300	0	0	0	0	0	0	0	300
EL 35	Fenix 67-25 kV Substation Distribution Feeder Installation	200	375	0	0	0	0	0	50	625
EL 41	POD II Rebuild	125	0	0	0	0	0	4,253	778	5,156
EL 44	POD V 230-66 kV Substation Property Acquisition	750	0	0	0	0	0	0	0	750
EL 45	ROW Additions Distribution	50	150	150	150	150	150	16	0	816
EL 46	Fayetteville Ball Park	550	0	0	0	0	0	0	0	550
EL 47	Downtown UG Infrastructure Reliability Improvements	50	700	0	0	0	0	3	2	755
EL 48	Underground Distribution / Streetscape Improvement	50	50	50	50	50	50	7	0	307
EL 49	CoF Person St 300 - 600 Block Streetscape Improvement	0	0	0	525	525	525	379	0	1,954
EL 50	CoF Sidewalk Conflicts	100	100	100	100	100	100	0	0	600
EL 51	CoF Langdon St Widening Project	0	0	0	0	0	300	0	0	300
EL 52	CoF Legend Avenue Re-Alignment	300	0	0	0	0	0	0	0	300
EL 54	CoF Louise Street and Ann Street Bridge Replacement	200	0	0	0	0	0	0	0	200
EL 58	BWGP Valve Actuator Upgrade	55	0	0	0	0	0	117	55	227
EL 59	Heat Exchanger Upgrade	310	310	310	0	0	0	0	0	930
EL 60	BWGP 72.5 kV Power Circuit Breaker Replacement	0	1,000	0	0	0	0	0	0	1,000
EL 65	FTI 66-12 kV Substation Rebuild and Relocation	0	1,000	3,000	500	0	0	0	0	4,500
EL 66	PO Hoffer 66-12 kV Substation Rebuild	0	0	1,000	1,000	0	0	0	0	2,000
<b>ELECTRIC FUND</b>		<b>14,990</b>	<b>18,135</b>	<b>20,685</b>	<b>17,950</b>	<b>16,625</b>	<b>17,125</b>	<b>13,401</b>	<b>11,734</b>	<b>130,645</b>
EL 21	Conservation Load Reduction (CVR)	1,000	2,000	0	0	0	0	611	750	4,361
<b>REPS (INCLUDED IN ELECTRIC FUND)</b>		<b>1,000</b>	<b>2,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>611</b>	<b>750</b>	<b>4,361</b>
EL 55	NCDOT Rowan Street Bridge Replacement	450	0	0	0	0	0	1,928	100	2,478
EL 56	NCDOT U-3424 Bunce Road Widening	0	375	375	125	0	0	0	0	875
EL 57	NCDOT U-4900 Murchison Road Widening	0	0	0	325	775	1,125	0	0	2,225
EL 61	NCDOT U-4403B Ramsey Street Widening	0	500	1,250	4,100	1,100	200	0	0	7,150
EL 62	NCDOT U-5798 Gillis Hill Road Widening	400	400	850	1,150	0	0	0	0	2,800
EL 63	NCDOT U-5101 Stacey Weaver Drive Widening	0	0	200	1,000	2,100	4,450	0	0	7,750
EL 64	NCDOT U-4404 Cliffdale Road Widening	0	0	100	500	1,800	1,650	0	0	4,050
<b>PARTICIPATION (INCLUDED IN ELECTRIC FUND)</b>		<b>850</b>	<b>1,275</b>	<b>2,775</b>	<b>7,200</b>	<b>5,775</b>	<b>7,425</b>	<b>1,928</b>	<b>100</b>	<b>27,328</b>
<b>TOTAL ELECTRIC FUND</b>		<b>16,840</b>	<b>21,410</b>	<b>23,460</b>	<b>25,150</b>	<b>22,400</b>	<b>24,550</b>	<b>15,940</b>	<b>12,584</b>	<b>162,334</b>

# SUMMARY BY FUNDING SOURCE

REF #	PROJECT NAME	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	PRE-FY 2018	FY 2018 EST.	TOTAL COST
<i>(Dollars in thousands)</i>										
EL 3	LED Area Lights - Replacements/Conversion	750	750	0	0	0	0	199	531	2,230
EL 16	Street Lights - LED Conversion	1,000	0	0	0	0	0	6,177	1,024	8,201
EL 17	Thoroughfare LED Roadway Lighting-Conversion	1,000	500	0	0	0	0	489	569	2,558
EL 19	Street Lights - Contract Lighting LED Replacement/Conversion	750	500	0	0	0	0	141	1,024	2,415
<b>BONDS</b>		<b>3,500</b>	<b>1,750</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,006</b>	<b>3,148</b>	<b>15,404</b>
EL 34	Fenix 67-25 kV Substation Upgrade	1,750	50	0	0	0	0	614	975	3,389
EL 36	Lafayette Village 67-12 kV Substation Rebuild	300	0	0	0	0	0	913	1,350	2,563
EL 37	Murray Fork 66- 25 kV Substation Power Transformer Upgra	750	0	0	0	0	0	0	10	760
EL 38	Bordeaux 67-12 kV Substation Rebuild	75	2,200	0	0	0	0	0	0	2,275
EL 39	Black & Decker Substation Rebuild	0	100	1,800	0	0	0	0	0	1,900
EL 40	Hogan Street 67-12 kV Substation Transformer Replacemen	0	0	0	0	875	0	0	0	875
EL 42	POD III Relaying Upgrade	100	1,200	0	0	0	0	0	0	1,300
EL 43	POD IV 230-66 kV Substation	0	0	125	250	7,875	10,500	3	1,400	20,153
<b>SUBSTATION CPF (FUNDED BY ELEC FUND)</b>		<b>2,975</b>	<b>3,550</b>	<b>1,925</b>	<b>250</b>	<b>8,750</b>	<b>10,500</b>	<b>1,530</b>	<b>3,735</b>	<b>33,215</b>
EL 53	NCDOT U-4405 Raeford Road Widening	6,600	2,750	0	0	0	0	679	1,150	11,179
<b>DOT E RAEFORD RD CPF</b>		<b>6,600</b>	<b>2,750</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>679</b>	<b>1,150</b>	<b>11,179</b>
<b>TOTAL ELECTRIC SYSTEMS</b>		<b>29,915</b>	<b>29,460</b>	<b>25,385</b>	<b>25,400</b>	<b>31,150</b>	<b>35,050</b>	<b>25,155</b>	<b>20,617</b>	<b>222,132</b>
<b>TOTAL ALL PROJECTS</b>		<b>118,225</b>	<b>122,093</b>	<b>122,331</b>	<b>133,235</b>	<b>128,131</b>	<b>121,446</b>	<b>98,723</b>	<b>73,039</b>	<b>917,222</b>
<b>TOTAL ELECTRIC FUND</b>		<b>16,843</b>	<b>19,108</b>	<b>29,940</b>	<b>19,292</b>	<b>17,005</b>	<b>17,432</b>	<b>13,651</b>	<b>12,350</b>	<b>145,621</b>
<b>TOTAL ELECTRIC FD WITH OFFSETTING REVENUES</b>		<b>1,850</b>	<b>3,275</b>	<b>2,775</b>	<b>7,200</b>	<b>5,775</b>	<b>7,425</b>	<b>2,539</b>	<b>850</b>	<b>31,689</b>
<b>TOTAL WATER/SEWER FUND</b>		<b>22,122</b>	<b>20,022</b>	<b>15,341</b>	<b>15,916</b>	<b>18,221</b>	<b>15,672</b>	<b>6,206</b>	<b>7,127</b>	<b>120,626</b>
<b>TOTAL W/S FUND WITH OFFSETTING REVENUES</b>		<b>672</b>	<b>0</b>	<b>0</b>	<b>3,776</b>	<b>0</b>	<b>0</b>	<b>44</b>	<b>576</b>	<b>5,068</b>
<b>TOTAL ELECTRIC &amp; W/WW FUNDS</b>		<b>41,486</b>	<b>42,405</b>	<b>48,056</b>	<b>46,184</b>	<b>41,001</b>	<b>40,529</b>	<b>22,440</b>	<b>20,904</b>	<b>303,004</b>
<b>FLEET MAINTENANCE FUND</b>		<b>600</b>	<b>5,400</b>	<b>3,200</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120</b>	<b>0</b>	<b>9,320</b>
<b>NC STATE LOAN FUND</b>		<b>1,433</b>	<b>9,477</b>	<b>17,337</b>	<b>8,300</b>	<b>200</b>	<b>0</b>	<b>90</b>	<b>323</b>	<b>37,160</b>
<b>NCDOT RESERVE</b>		<b>600</b>	<b>1,120</b>	<b>840</b>	<b>16,264</b>	<b>1,691</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,515</b>
<b>TOTAL ANNEX V RESERVE</b>		<b>19,918</b>	<b>19,872</b>	<b>24,038</b>	<b>22,568</b>	<b>28,557</b>	<b>27,496</b>	<b>52,985</b>	<b>20,197</b>	<b>215,631</b>
<b>HURRICANE MATTHEW CAPITAL PROJECT FUND</b>		<b>6,316</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>76</b>	<b>3,065</b>	<b>9,457</b>
<b>TOTAL BONDS</b>		<b>38,297</b>	<b>37,519</b>	<b>26,935</b>	<b>39,669</b>	<b>47,932</b>	<b>42,921</b>	<b>20,803</b>	<b>23,665</b>	<b>277,741</b>
<b>TOTAL SUBSTATIONS CPF</b>		<b>2,975</b>	<b>3,550</b>	<b>1,925</b>	<b>250</b>	<b>8,750</b>	<b>10,500</b>	<b>1,530</b>	<b>3,735</b>	<b>33,215</b>
<b>DOT E RAEFORD RD CPF</b>		<b>6,600</b>	<b>2,750</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>679</b>	<b>1,150</b>	<b>11,179</b>
<b>TOTAL OTHER FUNDS</b>		<b>76,739</b>	<b>79,688</b>	<b>74,275</b>	<b>87,051</b>	<b>87,130</b>	<b>80,917</b>	<b>76,283</b>	<b>52,135</b>	<b>614,218</b>
<b>TOTAL ALL FUNDS</b>		<b>118,225</b>	<b>122,093</b>	<b>122,331</b>	<b>133,235</b>	<b>128,131</b>	<b>121,446</b>	<b>98,723</b>	<b>73,039</b>	<b>917,222</b>



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