



Budget

Stormwater Projects



Stormwater Budget

Drainage
Assistance off
Right of Way

Spot Repair CIP
Minor Projects

Watershed
Modelling

CIP Major
Projects

Other (FEMA,
HMGP, NRCS
Grants)

NPDES Water
Quality Permit
(Regulatory)

Development
Review

Right of Way
Maintenance and
Street Sweeping



Drainage Assistance (off RoW)

Site Inspections Through 05/14/21	Drainage Assistance Program			
	<i>Eligible</i>	<i>Under Investigation*</i>	<i>Non-Eligible**</i>	<i>Total</i>
	66	9	422	497

*Site is still under investigation. Eligibility has not been determined

**Site visit revealed issue was non-stormwater related, or did not meet eligibility requirements per ordinance (commercial property, aesthetics, creek maintenance, right of way, etc)

- ❖ Eligible Projects are presented to the Stormwater Advisory Board for approval
 - ❖ February 2020 – 53
 - ❖ August 2020 – 3
 - ❖ December 2020 – 3
 - ❖ April 2021 - 7



Eligible Sites:

- ❖ Single-family residential property
- ❖ Serves a public purpose
- ❖ Repair includes subsurface drainage infrastructure
- ❖ Owner authorizes work and acknowledges the City will not take ownership



Before



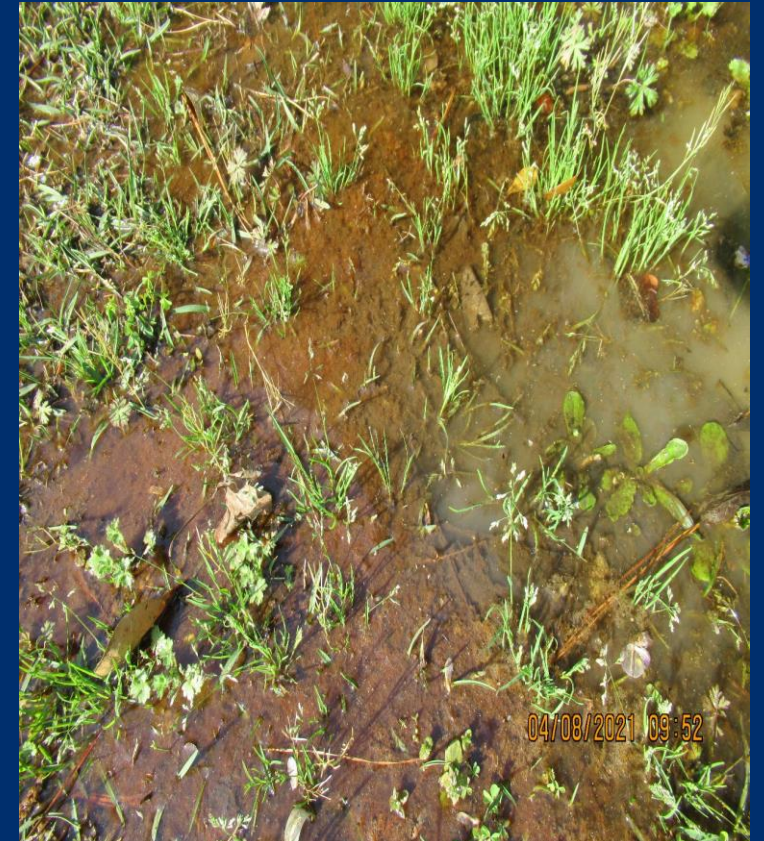
After

Non-eligible Sites:

- ❖ Commercial Sites
- ❖ Serve no public purpose
- ❖ Sediment removal from swales & ditches
- ❖ Landscaping or Aesthetic Maintenance
- ❖ Creek Bank stabilization
- ❖ Groundwater

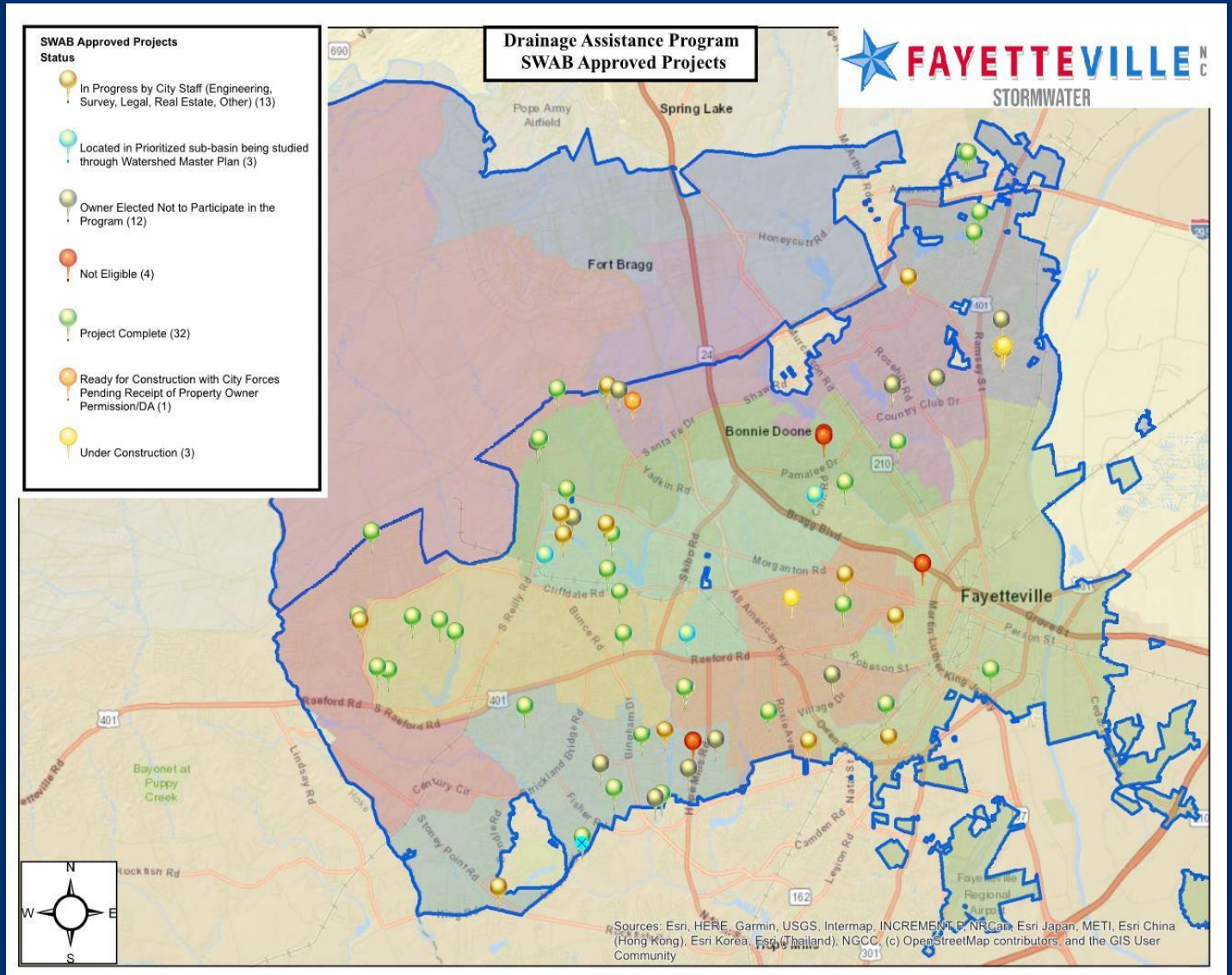


Vegetative Maintenance



Groundwater

- ❖ FY20/21 Budget = \$2,080,000
- ❖ Expended/Encumbered Funds = \$741,120
- ❖ Estimate to complete remaining eligible projects (15) = \$960,750
- ❖ Funds remaining from FY20/21 = ~\$378,130
- ❖ FY 22 Funds = \$400,000



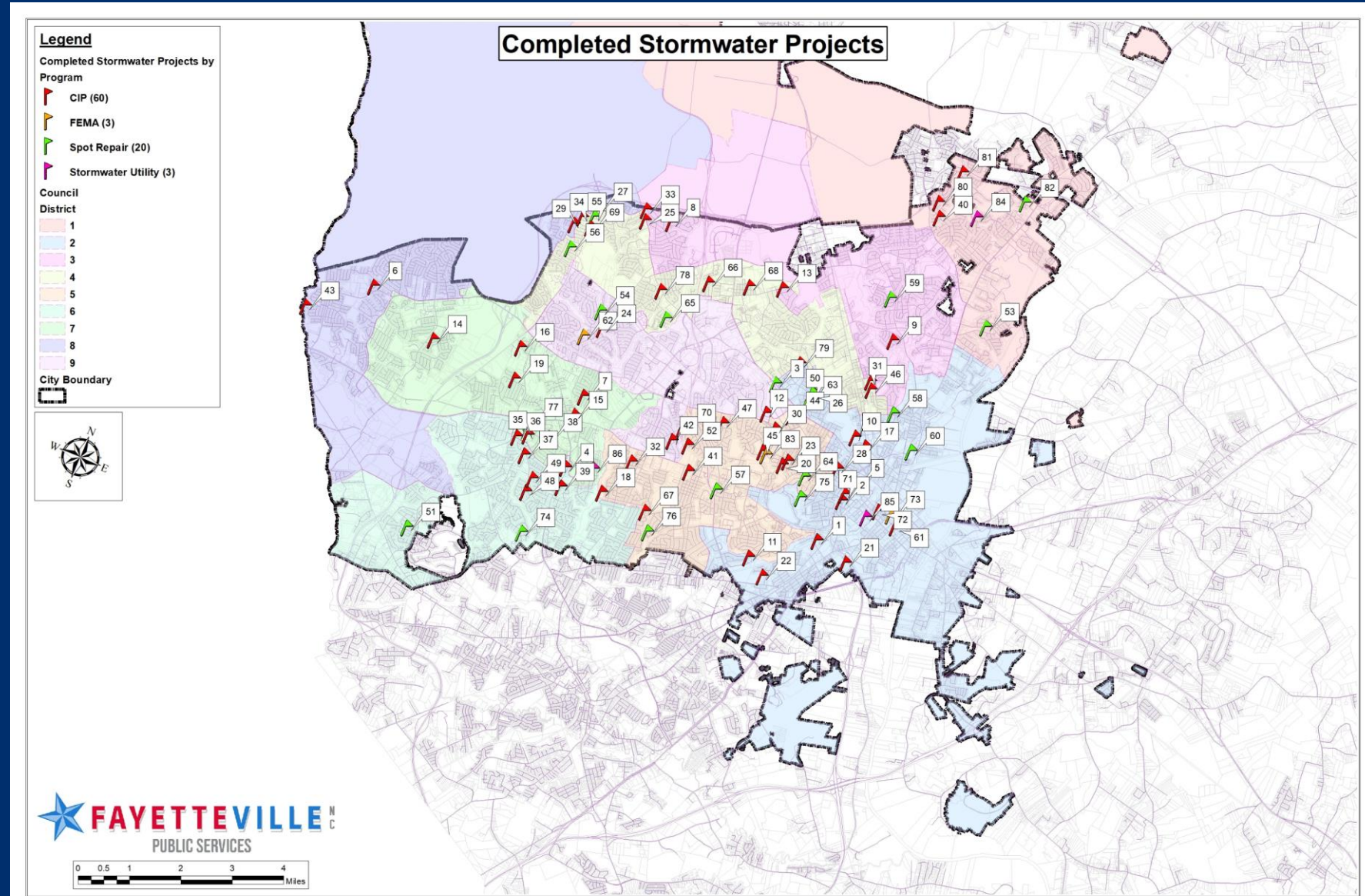
Program Details

- ❖ RoW CIP Minor Projects (<\$200K)
- ❖ Unencumbered Remaining Funds (5/14/21) = \$241,000
- ❖ FY 21 Budget - \$150,000
- ❖ Projects Designed/Constructed by Priority List

Existing/Future Projects

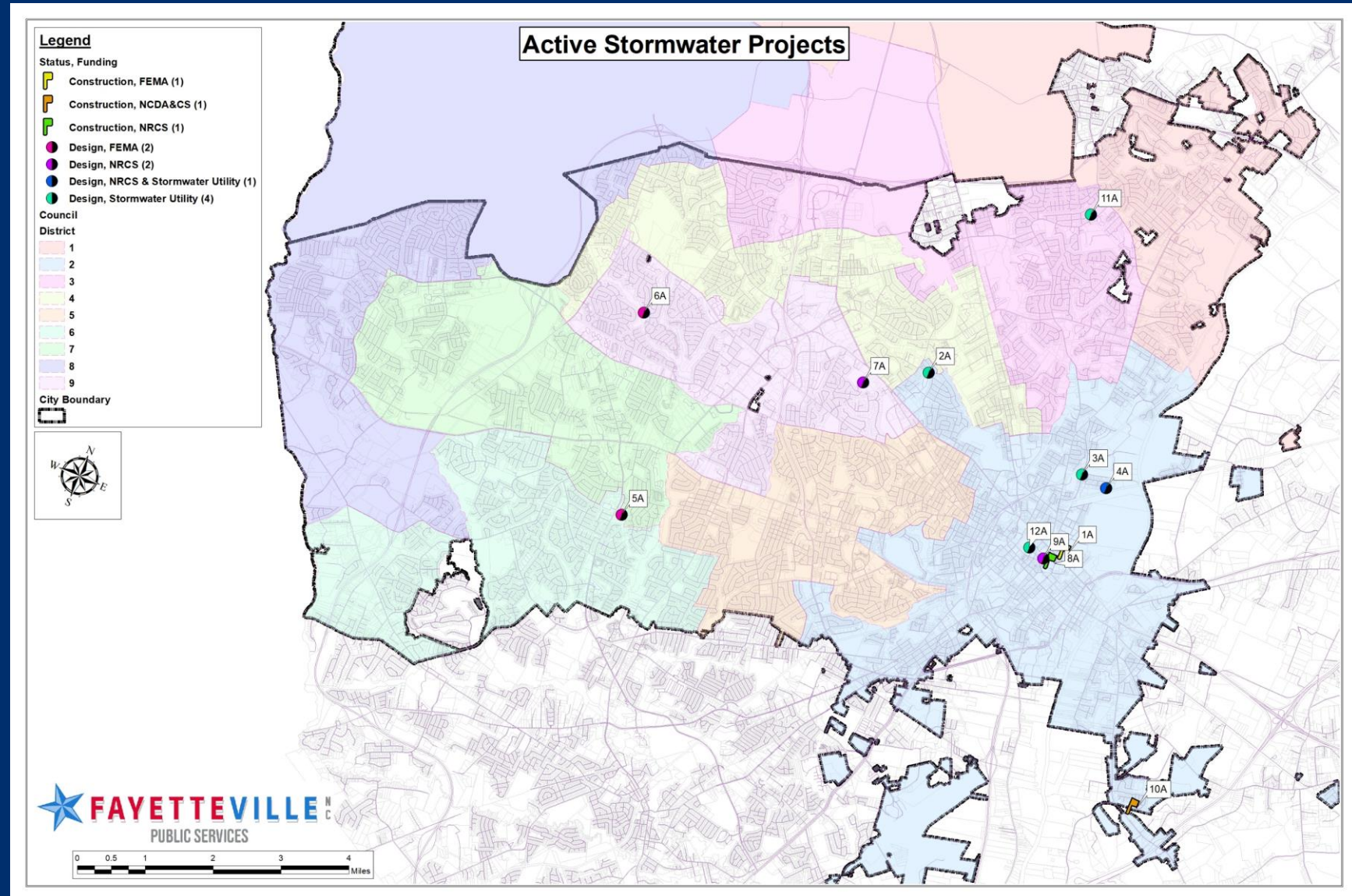
- ❖ Carnsmore, \$159,000, District 7, Expected Completion May 2021
- ❖ Thurston Court, \$85,000, District 9, Currently Under Design

❖ Completed Stormwater Projects since 2009



Existing/Proposed Projects:

1. Major CIP
2. Spot Repair
3. FEMA Obligated
4. NRCS – Stream Erosion Grant
5. Dept. of Agriculture Stream Clean Up Grant



Council approved moving forward with the below four projects in June 2020



Spruce Street Ph. 3

- Construction to begin in July '21
- Construction Cost \$488K



Neville Street

- Design complete
- Awaiting FEMA HMGP funding determination



North Street

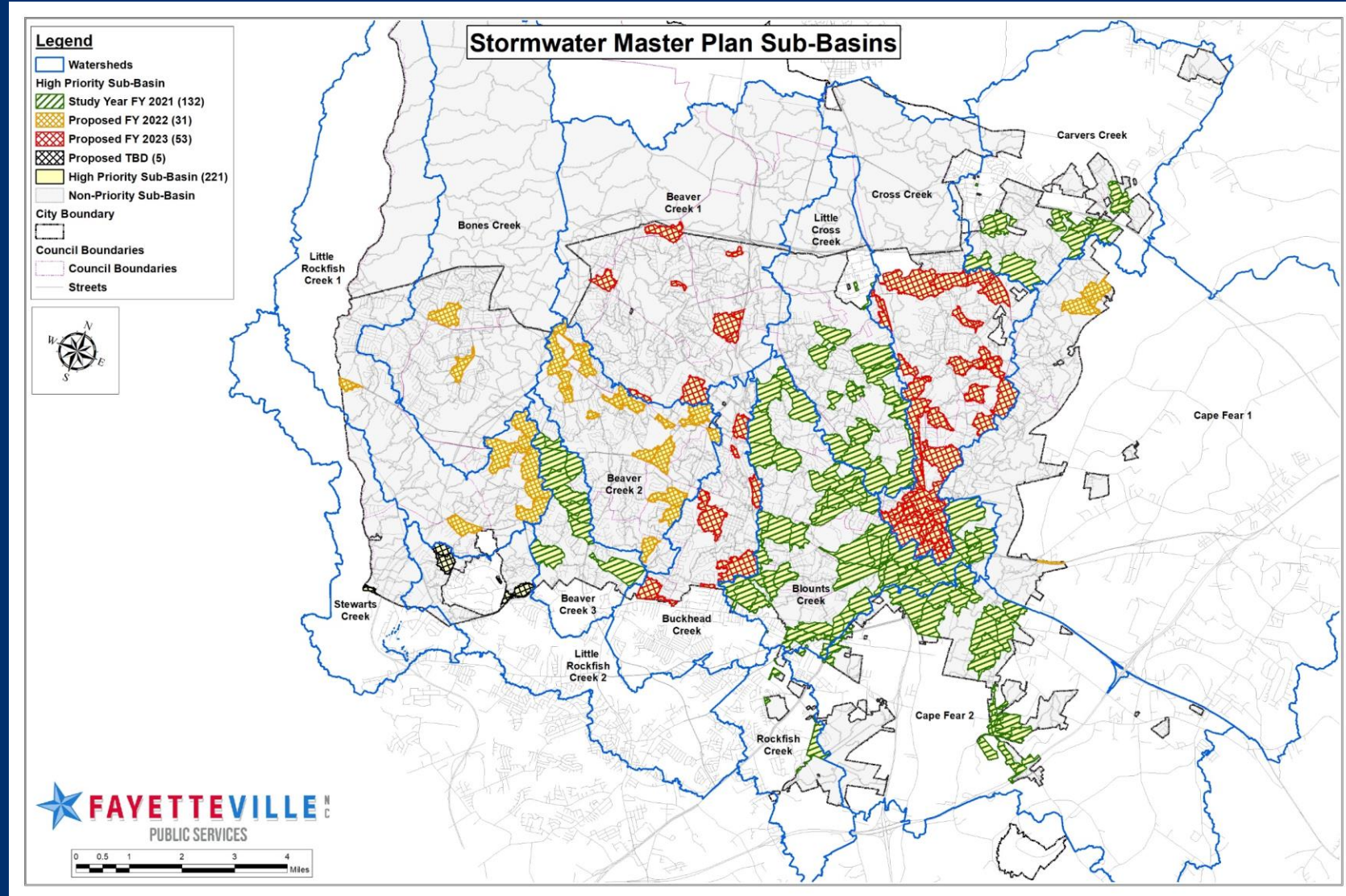
- Under Design (90%)
- Construction Estimate \$3.5M



Sunbury Drive

- Under Design (70%)
- Construction Estimate \$3.4M

- ❖ High Priority Sub Catchments Modelled FY 20 – FY 23
- ❖ Budget to Date = \$7.5M
- ❖ Expended/Encumbered Funds = \$7.3M
- ❖ Funds remaining from prior FY: ~200K
- ❖ FY 22 Funds = \$3.5M



Watershed Master Plan

	<i>Expended/Encumbered To Date</i>	<i>Projected FY22</i>	<i>Projected FY23</i>	<i>WS Totals</i>
Program Management	\$2,349,631	\$600,000	\$330,000	\$3,279,631
Rockfish Creek	\$86,315			\$86,315
Cape Fear 2	\$961,320	\$248,988		\$1,210,308
Little Cross Creek	\$1,238,425			\$1,238,425
Beaver Creek 3	\$571,430	\$116,235		\$687,665
Blounts Creek	\$1,820,474	\$710,093		\$2,530,567
Carvers Creek	\$82,335	\$20,000		\$102,335
Little Rockfish Creek 1	\$87,285	\$20,000		\$107,285
Cross Creek	\$100,000	\$1,058,641	\$908,641	\$2,067,282
Bones Creek		\$62,544	\$46,544	\$109,088
Beaver Creek 2		\$391,924	\$289,683	\$681,607
Beaver Creek 1			\$315,807	\$315,807
Cape Fear1			\$144,845	\$144,845
Buckhead Creek			\$343,194	\$343,194
Program Totals	\$7,297,215	\$3,228,425	\$2,378,714	\$12,904,354

Stormwater CIP

Project Name	Funding Year				
	<i>FY22</i>	<i>FY23</i>	<i>FY24</i>	<i>FY25</i>	<i>FY26</i>
Watershed Master Plan Studies	\$3,500,000	\$2,500,000			
Projects from Watershed Studies				\$500,000	\$1,000,000
Ray Avenue	\$306,922				
Hinsdale Rd			\$105,660	\$390,600	
College Lake Dam				\$2,695,484	
Spot Repair Program	\$150,000	\$150,000	\$150,000	\$150,000	\$300,000
Sunbury Drive	(\$3,000,000)		\$3,000,000		
Wayland Drive BRIC Match		\$838,136			
Projected Fund Balance	\$2,694,916	\$4,080,205	\$4,183,564	\$4,023,297	\$5,413,868



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May 20, 2021 Council Budget Session

Stormwater Program Handouts:

- ❖ SWAB Approved Drainage Assistance Program Sites
- ❖ Completed Stormwater Capital Improvement Projects List
- ❖ Active Stormwater Projects List
- ❖ Completed Stormwater Projects Map
- ❖ Active Stormwater Projects Map
- ❖ Stormwater Watershed Master Plan Sub-Basins



SWAB Approved Drainage Assistance Program Sites

Project Name	Council District	Status
Abercarn Way 6366	1	Project Complete
Abercarn Way 6367	1	Project Complete
Falkland Ct 6217	1	Project Complete - Work within the ROW
Iverleigh Cir 6004	1	Project Complete
Royston Ct 404	1	Owner Elected Not to Participate in the Program
Derose Dr 415	1	In Progress by City Staff (Engineering, Survey, Legal, Real Estate, Other)
Daytona Dr 4005/4007	1	In Progress by City Staff (Engineering, Survey, Legal, Real Estate, Other)
Project Name	Council District	Status
Appomattox Ct. / Ames St.	2	Not Eligible
Forest Hills Dr & Mulberry St	2	Project Complete - Work within the ROW
Rolling Hill Rd 2357	2	Project Complete
Varrene Dr 3224	2	Located in Prioritized sub-basin being studied through WS Master Plan
Wright St 316	2	Project Complete
Coffman St 2218	2	In Progress by City Staff (Engineering, Survey, Legal, Real Estate, Other)
Project Name	Council District	Status
Greyfield Rd 6318	3	Project Complete
Halifax Dr 405	3	In Progress by City Staff (Engineering, Survey, Legal, Real Estate, Other)
Halifax Dr 406	3	Project Complete
Halifax Dr 508	3	Owner Elected Not to Participate in the Program
McArthur Rd 1008	3	In Progress by City Staff (Engineering, Survey, Legal, Real Estate, Other)
McLamb Dr 703	3	Project Complete



Thamesford Rd 3497, 3495	3	Owner Elected Not to Participate in the Program
Vesper Ln 1147	3	Owner Elected Not to Participate in the Program
Vesper Ln 1153	3	Owner Elected Not to Participate in the Program
Project Name	Council District	Status
Bridgeman Dr 7517	4	Owner Elected Not to Participate in the Program
Dandridge Dr 910	4	Owner Elected Not to Participate in the Program
Paxton Dr 7505	4	Project Complete - Work within the ROW
Sarazen Dr 710	4	Not Eligible
Project Name	Council District	Status
Argyll Rd 502	5	Under Construction
Ashbrook Rd 7561	5	Located in Prioritized sub-basin being studied through WS Master Plan
Barber Ave. 1624	5	Not Eligible
Birch Rd 5310	5	Project Complete - Work within the ROW
Birch Rd 5310	5	Project Complete - Work within the ROW
Greycliff Dr 6330	5	Project Complete - CCTV showed no damage to pipe
Marlborough Rd	5	Owner Elected Not to Participate in the Program
Meadow Wood Rd 2235	5	Project Complete
Wellons Dr 1722	5	Project Complete - Work within City Easement
Nato Rd 3412	5	In Progress by City Staff (Engineering, Survey, Legal, Real Estate, Other)
Pine Valley Loop 1436	5	In Progress by City Staff (Engineering, Survey, Legal, Real Estate, Other)
Gunston Ct 2310	5	In Progress by City Staff (Engineering, Survey, Legal, Real Estate, Other)
Project Name	Council District	Status
Arapahoe Ct 5595	6	Owner Elected Not to Participate in the Program





Lake Trail Dr 6013	6	Project Complete
Lakehaven Dr 6199	6	Owner Elected Not to Participate in the Program
Lakehurst Dr 4913	6	Owner Elected Not to Participate in the Program
Natchez Loop 1719	6	Project Complete
Oakview Dr & Coleridge Dr	6	Project Complete - Work within the ROW
Quietwood Place 5554	6	Project Complete
Shagbark Rd 5214	6	Not Eligible
Stanton St 2253	6	Owner Elected Not to Participate in the Program
Paisley Ave 1834	6	In Progress by City Staff (Engineering, Survey, Legal, Real Estate, Other)
Westbranch Dr 5650	6	In Progress by City Staff (Engineering, Survey, Legal, Real Estate, Other)
Rolling Meadows Ln 6400	6	Project Complete
Project Name	Council District	Status
Gooden Dr 9708	7	Project Complete - CCTV showed no damage to pipe
Kimbrook Dr 6105	7	Project Complete
Leona Ave 118	7	Project Complete
Patrick Dr 1223	7	Project Complete
Quailwood Dr 1125	7	Project Complete - Work within the ROW
Rembrandt Dr 741-743	7	In Progress by City Staff (Engineering, Survey, Legal, Real Estate, Other)
Saltwell Place 1330	7	Project Complete
Project Name	Council District	Status
Brookshire St 6607	8	Project Complete
Newland Cir 6717	8	Project Complete - Work within City property
Butterwood Cir 1224	8	In Progress by City Staff (Engineering, Survey, Legal, Real Estate, Other)





Project Name	Council District	Status
Murray Fork Dr 308	9	Project Complete
Ryan St 7421 - 74172	9	Not Eligible
Waters Edge Drive 5831	9	Project Complete
Waxhaw Drive 218	9	Owner Elected Not to Participate in the Program
Livermore Dr 261	9	In Progress by City Staff (Engineering, Survey, Legal, Real Estate, Other)
Murray Fork 255	9	In Progress by City Staff (Engineering, Survey, Legal, Real Estate, Other)
Shelby Cir 7206	9	In Progress by City Staff (Engineering, Survey, Legal, Real Estate, Other)


SWAB Approved Projects Status


 In Progress by City Staff (Engineering, Survey, Legal, Real Estate, Other) (13)


 Located in Prioritized sub-basin being studied through Watershed Master Plan (3)

 Owner Elected Not to Participate in the Program (12)

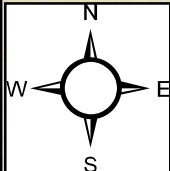
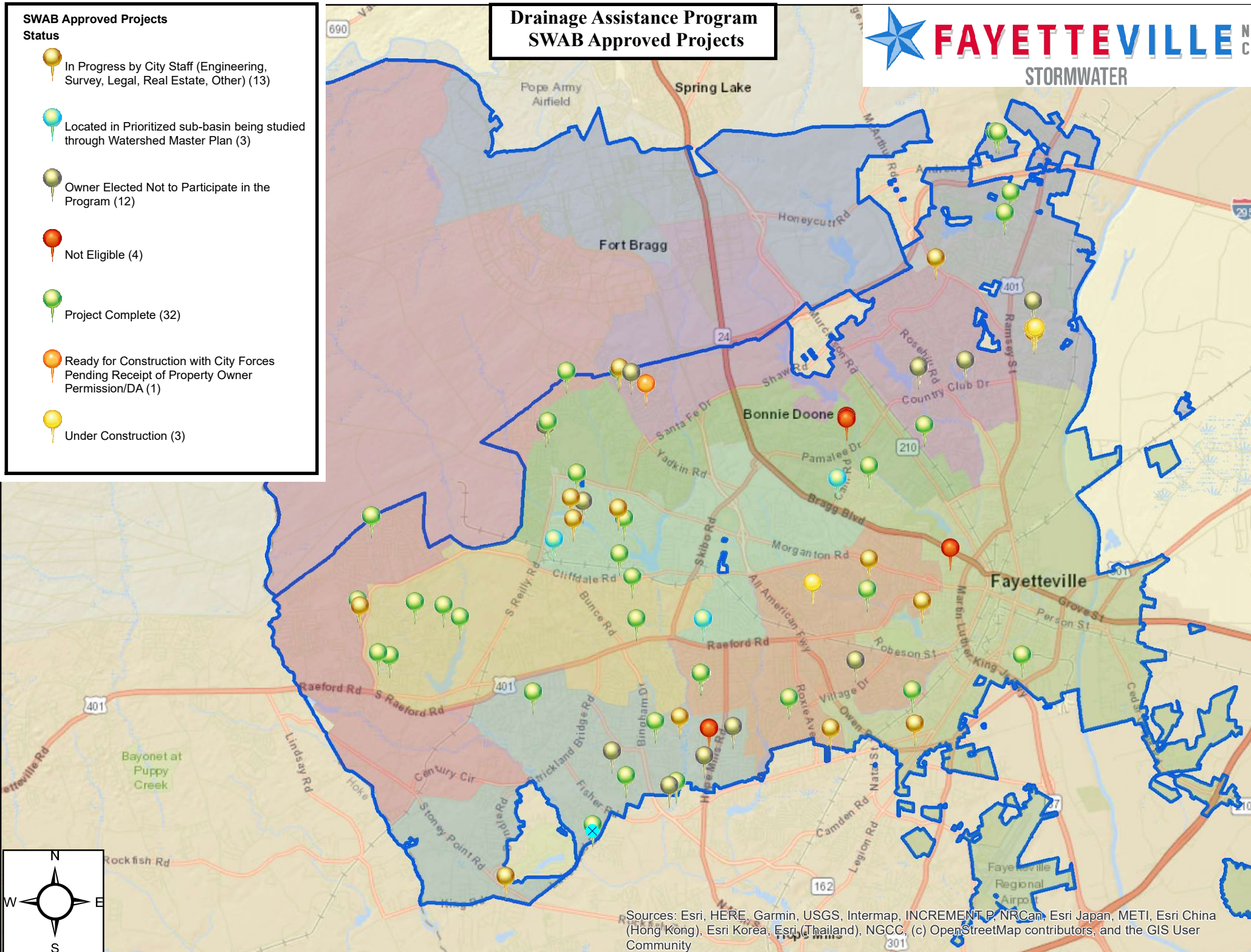
 Not Eligible (4)

 Project Complete (32)

 Ready for Construction with City Forces Pending Receipt of Property Owner Permission/DA (1)

 Under Construction (3)

Drainage Assistance Program SWAB Approved Projects



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Completed Stormwater Capital Improvement Projects

#	Project Name	Year	Council District	Cost
40	Anson Pond Culvert	2012	1	\$322,791.35
53	Carroll Ave Spot Repair	2017	1	\$54,263.42
80	Shoreline Dr Culvert	2019	1	\$830,504.43
81	Liberty Hills Subdivision Drainage	2019	1	\$740,969.79
82	Shadowcroft Rd Culvert Repair	2019	1	\$940,818.00
84	Rampart Dr Spot Repair	2020	1	\$40,000.00
#	Project Name	Year	Council District	Cost
1	Camden Rd & Woodsdale Drainage	2009	2	-
2	Currie St & Ellis St Drainage	2009	2	-
3	Eutaw Shopping Center Repair	2009	2	-
5	Hillside Ave Spot Repair	2009	2	-
10	Filter Plant Dr Drainage	2009	2	-
11	Hyde Place	2009	2	-
17	Murchison Rd & Cumberland St Drainage	2010	2	-
21	Chicago Dr Pipe Replacement	2010	2	-
22	Coffman St Storm Drainage	2010	2	-
26	Lyon Rd & Rogers Dr Drainage	2011	2	\$150,006.05
28	Norwood/Ancon Drainage	2011	2	\$67,421.31
50	Lyon Rd Spot Repair	2016	2	\$34,187.20
58	Ijams Rd Spot Repair	2017	2	\$2,198.00
60	North St Spot Repair	2017	2	\$158,108.00
61	Person St Innovative Drainage	2017	2	\$581,813.20
63	Chester Cir Spot Repair	2018	2	\$6,210.16
71	Emergency Repair at McGilvary St	2018	2	\$247,108.21
72	Market House Square Drainage	2018	2	\$254,074.83
73	N Cool Spring St Bridge Repair	2018	2	\$2,366,028.00
75	Forest Lake Spot Repair	2019	2	\$182,049.00
79	Spruce St Phase II Drainage	2019	2	\$509,881.01
85	Rankin St Spot Repair	2020	2	\$261,000.00
#	Project Name	Year	Council District	Cost
8	Galloway Dr Drainage	2009	3	-
9	Braddock Dr Drainage	2009	3	-
13	Swainey Ave Drainage	2010	3	-


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 PUBLIC SERVICES

25	Lancaster Road	2010	3	-
33	Cottonade Drainage	2012	3	\$471,676.50
59	Landau Rd Spot Repair	2017	3	\$75,871.15
#	Project Name	Year	Council District	Cost
27	Summerhill Drainage	2011	4	\$1,053,818.02
29	Godfrey Outfall Phase I Drainage	2012	4	\$192,706.02
31	Seabrook Drainage Phase I Drainage	2012	4	\$375,440.59
34	Annexation 8 Drainage	2012	4	\$133,293.63
46	Seabrook Drainage Phase II	2013	4	\$65,365.90
55	Dandridge Dr Spot Repair	2017	4	\$11,376.44
56	Delliert Ct Spot Repair	2017	4	\$17,212.83
65	Rock Canyon Dr Spot Repair	2018	4	\$16,185.56
66	Bonnie Doone West Drainage	2018	4	\$527,394.01
68	Bonnie Doone Area 12 Drainage	2018	4	\$127,894.53
69	Godfrey Outfall Phase II Drainage	2018	4	\$689,623.27
78	Yadkin Rd Drainage	2019	4	\$4,093,744.52
#	Project Name	Year	Council District	Cost
12	Skye Drive	2010	5	-
18	Redwood Dr & Boros Dr Drainage	2010	5	-
20	Stonebrook Outfall Improvements	2010	5	-
23	E Park Dr Gabions & Renovation	2010	5	-
30	Lockwood & Ravenhill Drainage	2012	5	\$216,454.01
32	Lafayette Village Drainage	2012	5	\$2,359,199.47
41	Raeford Faison Drainage System	2012	5	\$836,024.53
44	McNeill Circle Drainage	2013	5	\$1,917,162.11
45	North Edgewater Dr Drainage	2013	5	\$51,909.03
47	Murray Hill Rd Culvert	2013	5	\$574,043.67
52	Buckhead Kingsford Drainage	2016	5	\$1,726,841.01
57	Friendly Rd Spot Repair	2017	5	\$6,740.11
64	Devane St Spot Repair	2018	5	\$17,765.35
67	Coventry Rd Culvert Stream Imp.	2018	5	\$1,385,306.29
70	Ferncreek Norwood Drainage	2018	5	\$88,114.48
76	Martindale Dr Spot Repair	2019	5	\$101,535.00
83	Mirror Lake Dam Repair	2020	5	\$5,238,861.00
#	Project Name	Year	Council District	Cost
36	Annexation 10 West Drainage	2012	6	\$464,015.29


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PUBLIC SERVICES

37	Annexation 11 Rutherglen/Rhemish Drainage	2012	6	\$93,872.44
39	Annexation 13 Drainage	2012	6	\$383,247.22
48	Annexation Area 12 Drainage	2014	6	\$564,335.63
49	Annexation Area 14 Drainage	2014	6	\$313,852.87
51	Talus Rd Spot Repair	2016	6	\$63,782.00
74	Blackfriars Spot Repair	2019	6	\$2,019.00
#	Project Name	Year	Council District	Cost
4	Greenock Ave Drainage	2009	7	-
7	Conaway Dr Drainage	2009	7	-
14	Conestoga Dr Drainage	2010	7	-
15	Little Dr Drainage	2010	7	-
16	Media Dr Drainage	2010	7	-
19	Remington Rd Drainage	2010	7	-
35	Annexation 10 East Drainage	2012	7	\$674,559.05
38	Annexation 11 South Arran Hills/Park Drainage	2012	7	\$180,249.92
77	Norton Dr Spot Repair	2019	7	\$106,453.00
86	Carnsmore Spot Repair	2021	7	\$145,000.00
#	Project Name	Year	Council District	Cost
6	Kerrow Rd Hoke Loop Drainage	2009	8	-
43	James Creek at Trayburn Drainage	2012	8	\$49,755.77
#	Project Name	Year	Council District	Cost
24	Laguna Drive	2010	9	
42	Montclair Drainage System	2012	9	\$257,980.67
54	Cheshire Ct Spot Repair	2017	9	\$42,859.00
62	Offing Dr Drainage	2017	9	\$938,323.00



Active Stormwater Projects

#	Project Name	Funding Source	Council District	Cost
1A	Cross Creek Embankment Failure	FEMA	2	\$7,457,679
2A	Spruce St Phase 3	Stormwater Utility	2	\$341,000
3A	North St Drainage Improvements	Stormwater Utility	2	\$3,860,000
4A	Neville St Drainage Improvements	FEMA & Stormwater Utility	2	\$1,673,000
5A	Greenock Ave	FEMA	6	\$900,000
6A	Devonwood Lower Dam	FEMA	9	\$3,279,200
7A	Bragg Blvd Flea Market	NRCS	9	\$377,500
8A	Heritage Asst Living/First Presb Church	NRCS	2	\$1,120,000
9A	Beaver Law Firm	NRCS	2	\$930,500
10A	Lock's Creek Stream Assessment & Debris Removal	NCDA&CS	2	\$446,234
11A	Sunbury Dr Drainage Improvements	Stormwater Utility	3	\$3,602,000
12A	Ray Avenue	Stormwater Utility	2	\$733,200

Completed Stormwater Projects

Legend

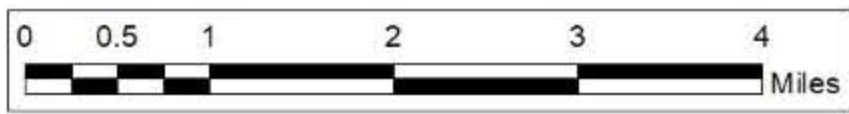
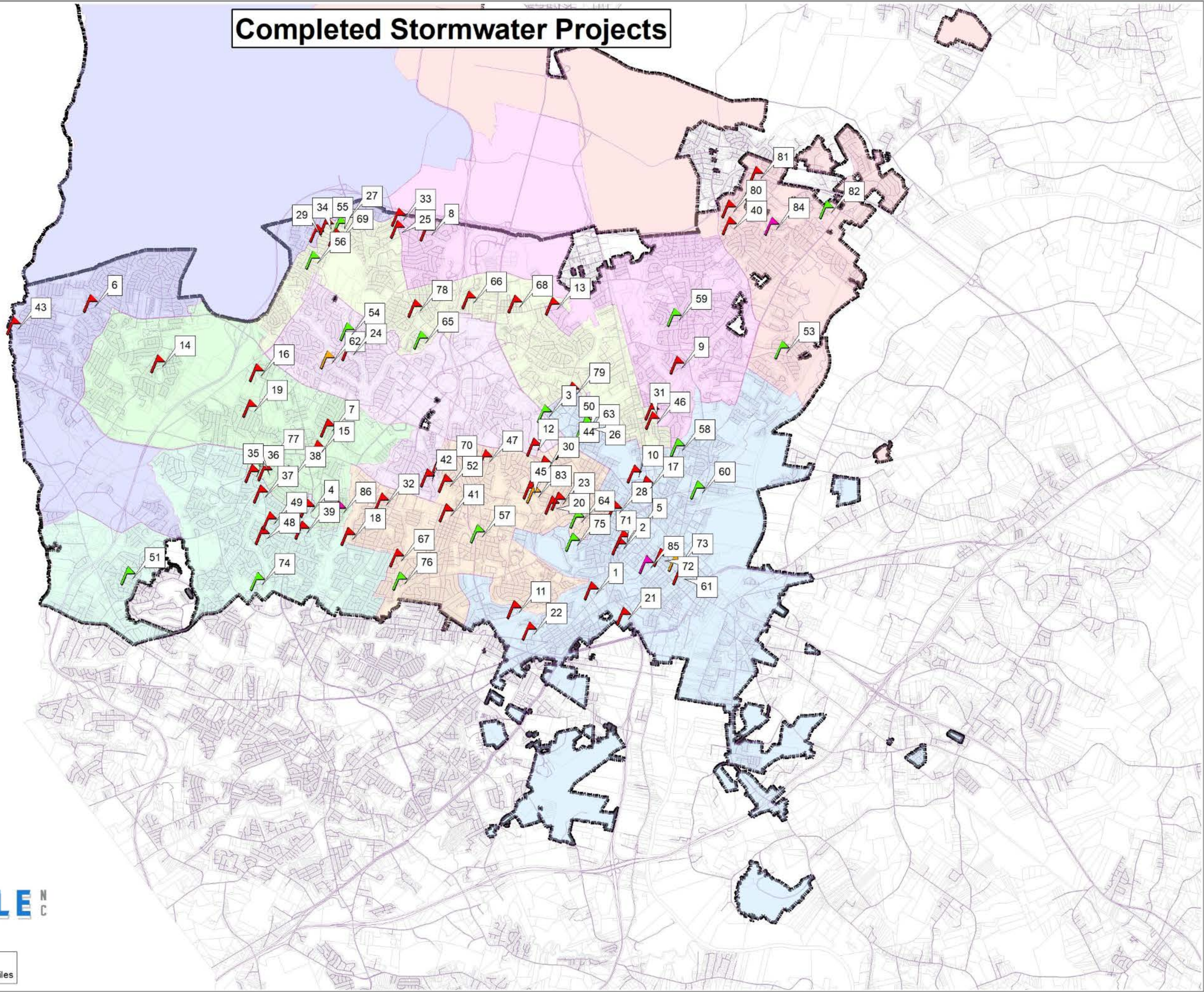
Completed Stormwater Projects by Program

- CIP (60)
- FEMA (3)
- Spot Repair (20)
- Stormwater Utility (3)

Council District

- 1
- 2
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- 5
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- 8
- 9

City Boundary



Active Stormwater Projects

Legend

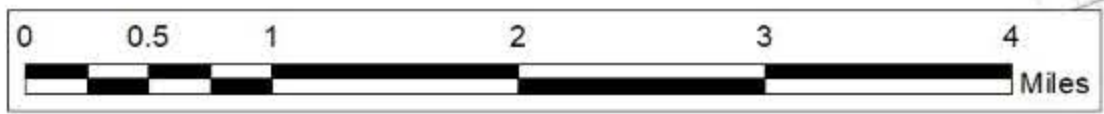
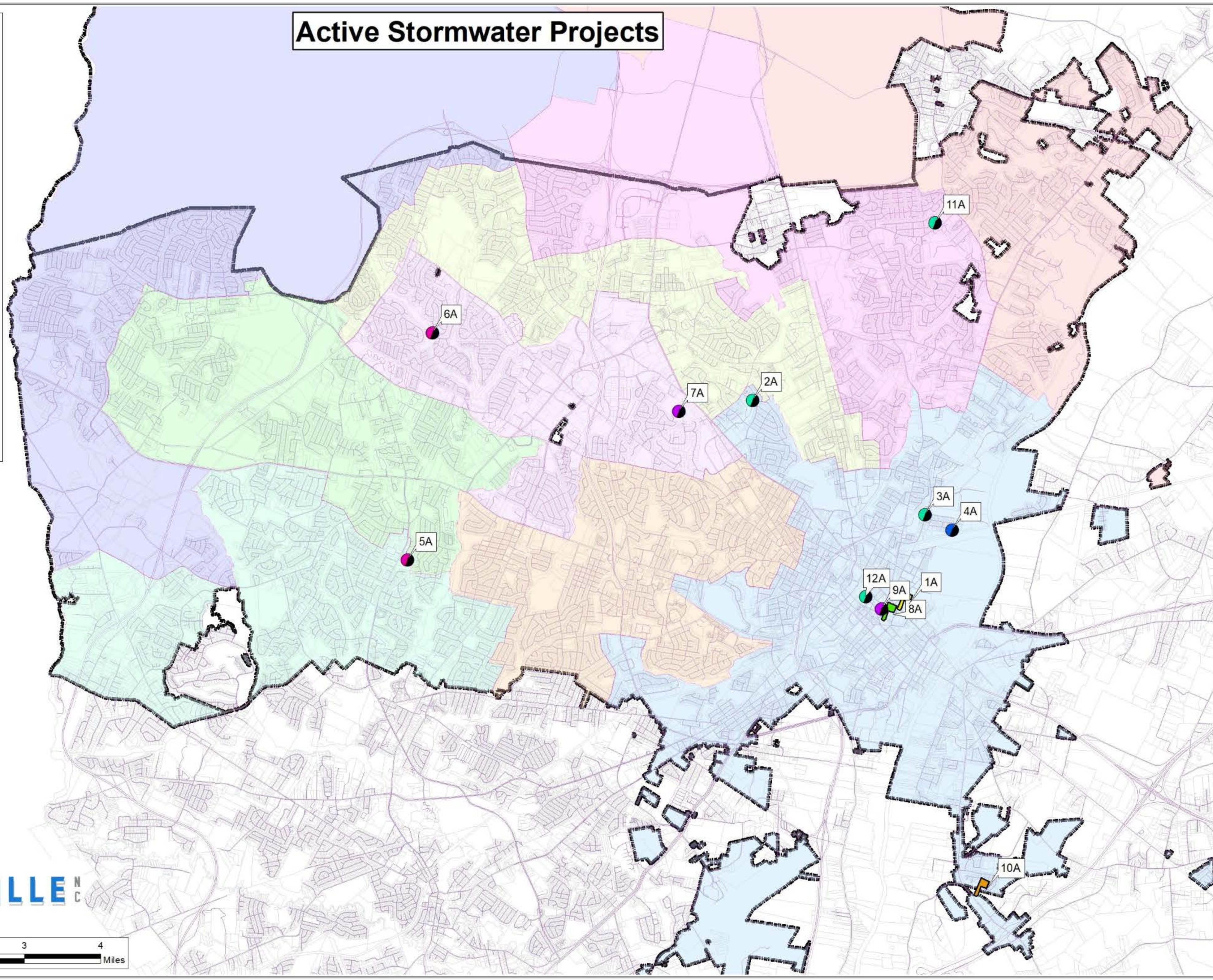
Status, Funding

- Construction, FEMA (1)
- Construction, NCDA&CS (1)
- Construction, NRCS (1)
- Design, FEMA (2)
- Design, NRCS (2)
- Design, NRCS & Stormwater Utility (1)
- Design, Stormwater Utility (4)

Council District

- 1
- 2
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City Boundary



Stormwater Master Plan Sub-Basins

Legend

- Watersheds
- High Priority Sub-Basin
 - Study Year FY 2021 (132)
 - Proposed FY 2022 (31)
 - Proposed FY 2023 (53)
 - Proposed TBD (5)
- High Priority Sub-Basin (221)
- Non-Priority Sub-Basin
- City Boundary
- Council Boundaries
 - Council Boundaries
 - Streets

