BENEFIT-COST ANALYSIS METHODOLOGY

INTRODUCTION

A benefit cost analysis (BCA) has been performed by McAdams as part of the FEMA Building Resilient Infrastructure and Communities (BRIC) Grant Application for the City of Wilson. The City is seeking federal funding to support the demolition and initial phase of construction of the Hominy Swamp Stormwater Park.

The overall project is estimated to cost a total of $8,942,307.29 to demolish, design, permit, and construct.

The FEMA BRIC toolkit version 6.0 was used to estimate the present value of expected annual benefits and costs of the Hominy Swamp Stormwater Park project.

ALTERNATIVE COST-EFFECTIVENESS METHODOLOGY

The BCA for this project meets all three conditions stated in the Alternative Cost-Effectiveness Methodology for FY2022 BRIC and FMA Application Cycle. The BCR for the Hominy Swamp Stormwater Park project is greater than 0.75 using the 7% Discount Rate and exceeds 1.0 using the 3% Discount Rate.

The project benefits a disadvantaged community as defined by the Centers for Disease Control and Prevention's (CDC) Social Vulnerability Index (SVI) of a census tract with a score of greater than or equal to 0.6. The project site is located entirely within Wilson County Census Tract #4 with an SVI score equal to 0.787. However, adjacent and downstream Census Tracts all have SVI score higher than 0.9. Appendix H demonstrates the project area relative to the Census Tract SVI scores.

In addition to benefitting socially vulnerable areas, this project will increase climate resiliency of this watershed through significant reduction of impervious and implementation of a large-scale stormwater control measure (SCM) that will reduce heat island effects through significant vegetative cover, protect against intense storms and extreme rainfall events through attenuation of stormwater runoff and infiltration.

BCA METHODOLOGY

The project has been broken down into several mitigation activities that combined, equal the total project cost and correspond to the project phases and scope of work. Prior to the beginning of the project scope of this grant award, the City will finalize acquisition of the existing mall property with separate funding. If awarded BRIC funding, the City will initiate demolition of the site and hire a consultant to finalize site design and obtain appropriate permits. Once permit approvals are received, the City will administer a public bid process to hire a qualified contractor to construct the large-scale nature-based SCM and associated open space. The BCA methodology utilized to demonstrate cost-effectiveness of the entire project scope is described in greater detail below by Mitigation Activity submitted. Supporting documentation is included as Appendices.

Mitigation Action - Other

The initial Mitigation Action establishes the estimated cost associated with demolition of the current mall property. The Project Useful Life (PUL) was entered as 50 years as the recommended default value for flood risk reduction in the FEMA BCA Calculator v.6.0 guidance. Subrecipient management costs have also been included in this line item and calculated at 5% of the total project budget. Demolition will not require annual follow-up maintenance once activities are completed, therefore, no Annual Maintenance Costs were included. The Initial Project Cost for demolition is estimated to be $3,546,250 and a professional estimate from D.H. Griffin has been included in Appendix B. Appendix B also includes a Wilson Times article demonstrating the City's commitment to project implementation through acquisition of the property prior to scope of the potential BRIC award. Tax cards and plat for the parcels to be demolished are also included.

Mitigation Action – Urban Trees

In addition to the creation of substantial open space, many urban trees will be included in the proposed design to enhance tree canopy in this dense urban area. In the current concept design (Appendix G), it is anticipated that 200 urban trees will be planted in the proposed open space along the edges of the large flood control device and within the surrounding park areas. Tree canopy will help reduce heat island effects in this part of the City in addition to reducing runoff through canopy capture, enhanced infiltration, and evapotranspiration. Cost estimate includes $1000/tree unit cost for a total cost of $200,000 for material and installation of all urban trees with an annual maintenance cost estimate of $10,000/yr. Annualized, this maintenance cost is calculated to be a total of $116,536.

Mitigation Action – Drainage Improvement

Once the site and all existing impervious has been demolished, the City will hire an engineer to provide design and permitting services for the 14-acre nature-based stormwater control device that will be the centerpiece of an overall 26-acre stormwater park. The PUL considered for the stormwater control measure is the default of 30 years. The Initial Project Costs for design and permitting is estimated to be $738,750, construction administration costs are estimated to be $125,625 and total construction (excluding urban trees) is estimated to be $3,789,322.13. Design and permitting costs include consultant fees to perform necessary survey, design, and permit application costs to collect existing site data, finalize design, and obtain necessary permits to construct the project. Construction cost includes all costs associated with material, labor, and equipment to construct the SCM, mass grade remaining site area, stabilize the site and final plant installation in the SCM area in addition to stabilization of the Elizabeth Road outfall area with riprap, coir fiber matting and live staking. Annual SCM maintenance cost was estimated to be $10,000/yr to provide sediment cleanout, outlet and inlet structure cleanout, and vegetation care and maintenance. Annualized, this maintenance cost is calculated to be a total of $124,090.50. An Engineer's Opinion of Probable Cost is included in Appendix A containing line-item unit costs developed from recent bids in the region and industry trends at the time of preparation of the bid tabulation.

The primary benefit of this project is the flooding relief provided to properties that lie adjacent to the storm drainage system conveying runoff from the existing mall property to the Elizabeth Road outfall. Several of the residents along this system have filed complaints of property flooding in the last several

years with the City and can be reviewed in Appendix E. A preliminary hydrologic analysis was performed using Bentley's PondPack V8i software to estimate peak flows for the 1-, 2-, 5-, 10-, 25-, 50-, and 100- year storm events in the pre- and post-project condition. The post-project flows show significant reduction in peak flows attributed to the removal of many acres of impervious surface and construction of the nature-based stormwater control measure providing peak flow attenuation to downstream properties. Results of this analysis can be reviewed in Appendix C. A preliminary hydraulic analysis was performed using PCSWMM to evaluate system performance in the existing and "post-SCM" condition for the 1-, 2-, 5-, 10-, and 25-yr storm events. Details on data sources and engineering assumptions made can be found in the Technical Feasibility Report.

The results of the hydraulic analysis allowed for a depth of flooding to be calculated on structures located along the existing trunkline from the existing mall site to the Elizabeth Road outfall. An exhibit is included in Appendix E showing the inventory of the impacted structures. PIN and address of each of these structures was obtained from Wilson County's GIS website. The footprint of the structures used in this analysis were downloaded from the North Carolina Flood Risk Information System (NCFRIS). Additional information like Building Value, Stories, Square Feet, Foundation, and Occupancy Type were also obtained from NCFRIS. As none of the impacted structures are located in FEMA regulated Special Flood Hazard Areas (SFHA), no official Finished Floor Elevation information was easily obtainable. Google street view was used to visually observe average foundations of the impacted properties. A conservative estimate was then applied to each foundation type to establish FFE relative to the ground elevation calculated at each structure from the QL2 LiDAR DEM surface.

- If the structure is listed at having a basement, it was assumed that damage would occur if modeled water surface was equal to ground elevation.
- If the structure was listed to be slab on grade then 0.5 feet was added to ground elevation to establish FFE to account for average step up into the front door.
- If the foundation type was listed as crawl space, a conservative 2.5 feet above ground was assumed for FFE. Structures with crawls spaces were observed from Google street view to have crawl spaces ranging in heights from 1 foot to 2.5 feet above ground, therefore it was considered conservative to apply the maximum crawl space height to all impacted structures.

Structure Flooding Depths were then calculated based on the modeled maximum flood depth above ground, subtracting the finished floor elevation above ground at each structure, for each storm event in both the pre- and post-SCM condition. If there was no surface flooding reported from the PCSWMM model, then a value of -5.00 feet was applied to demonstrate no damage to the structure.

To determine percent damage to the structure, Table 4 and Table 5 from the USACE Depth-Damage Relationships Feasibility Study (USACE 2006) was used for residential or commercial structures respectively. As the flooding experienced by the project's impacted structures most closely simulates riverine flooding, USACE DDF curves are the appropriate DDF relationship per FEMA BCA toolkit guidance. The referenced report was selected for use in this analysis due to the breakdown of percent damage and content-to-structure-value-ratios (CSVR) for similar site conditions such as; short duration (one day or less), freshwater, one-story vs. two-story, and varying commercial structure types. For both residential and commercial structures, CSVR1 was used to determine content value. Appendix F includes Table 4 and

Table 5 excerpts from the USACE technical report along with damage estimates for each storm event in the pre- and post-project condition. The percent damage for each structure was derived from Table 4 or Table 5 for the appropriate conditions and associated structure flooding depth (above FFE). The damages were then calculated using the equation below for each structure:

Calculated Damage = [Building Value * % Damaged] + [Building Value * CSVR1 * % Damaged]

Damages for each return event were then summed for all impacted structures and input into the BCA toolkit. The final input in this Mitigation Activity is the benefit associated with Ecosystem Services resulting from the conversion of the 24-acres of the project site to open space. The total parcel area is 44 acres of which approximately 54% will be converted into open space for the SCM and the surrounding park amenities.

CONCLUSION

Once each of these mitigation activities were entered into the spreadsheet, a final BCR calculation reports that this project is cost-effective when considering the Alternative Cost-Effectiveness Methodology. The BCR for the Hominy Swamp Stormwater Park project is calculated to be 1.15 using the 7% Discount Rate and 1.77 using the 3% Discount Rate.

REFERENCES

North Carolina Flood Risk Information System. https://fris.nc.gov/fris/Index.aspx?FIPS=195&ST=NC&user=General%20Public. Accessed December 20, 2022.

Wilson County GIS. https://gis.wilson-co.com/maps/. Accessed December 20, 2022.

USACE Depth-Damage Relationships for Structures, Contents, and Vehicles and Content-to-Structure Value Ratios (CSVR) in Support of the Donaldsonville to the Gulf, Louisiana Feasibility Study. https://www.mvn.usace.army.mil/Portals/56/docs/PD/Donaldsv-Gulf.pdf March 7, 2006.

APPENDICES

APPENDIX A
Engineer's Opinion of Probable Cost

ENGINEER'S OPINION OF PROBABLE COST

Phase: Concept Design
Date: 1/5/2023

PHASE 1

CONTRACTOR SCOPE

DEMOLITION PHASE

Item	Description	Quantity	Units	Unit Cost	Total Cost
1	Asbestos Inspection[3]	1	LS	$ 10,000.00	$ 10,000.00
2	Out Building and Main Mall Building Demo[2]	1	LS	$ 1,950,000.00	$ 1,950,000.00
3	Asphalt, Curb and Gutter[2]	1	LS	$ 877,000.00	$ 877,000.00
				25% Contingency =	**$ 709,250.00**
				SUBTOTAL =	**$ 3,546,250.00**

ENGINEERING CONSULTANT SCOPE

DESIGN + PERMITTING

Item	Description	Quantity	Units	Unit Cost	Total Cost
4	Project Coordination	135	HR	$ 150.00	$ 20,250.00
5	Survey	700	HR	$ 120.00	$ 84,000.00
6	Level A SUE	200	HR	$ 120.00	$ 24,000.00
7	Phase 1 Environmental Assessment	100	HR	$ 120.00	$ 12,000.00
8	Surface Water Delineation / Non-Notifying NWP	100	HR	$ 120.00	$ 12,000.00
9	SCM Prelim Design	325	HR	$ 150.00	$ 48,750.00
10	Park Prelim Design	200	HR	$ 150.00	$ 30,000.00
11	Community Engagement	325	HR	$ 150.00	$ 48,750.00
12	H+H Modeling	325	HR	$ 150.00	$ 48,750.00
13	SCM Final Design and Construction Drawings	500	HR	$ 150.00	$ 75,000.00
14	Park Final Design	525	HR	$ 150.00	$ 78,750.00
15	Finalize BCA	150	HR	$ 150.00	$ 22,500.00
16	Permitting (RTC, coord, and fees)	575	HR	$ 150.00	$ 86,250.00
				25% Contingency =	**$ 147,750.00**
				SUBTOTAL =	**$ 738,750.00**
				PHASE 1 PROJECT COST =	**$ 4,285,000.00**

Phase 1 Subrecipient Management Costs (5% of Phase 1 Costs) = $ 214,250.00

Phase 1 Project Cost + Subrecipient Management Cost = $ 4,499,250.00
Phase 1 Wilson Match (30%) $ 1,349,775.00
Phase 1 Federal Cost-Share (70%) $ 3,149,475.00

ENGINEER'S OPINION OF PROBABLE COST

Phase: Concept Design
Date: 1/5/2023

PHASE 2

ENGINEERING CONSULTANT SCOPE

CONSTRUCTION ADMINISTRATION

17	Bid Preparation and Administration	100	HR	$	150.00	$	15,000.00
18	Construction Observation	175	HR	$	150.00	$	26,250.00
19	As-Built Survey	325	HR	$	120.00	$	39,000.00
20	As-Built Permitting	135	HR	$	150.00	$	20,250.00
					25% Contingency =	**$**	**25,125.00**
					SUBTOTAL =	**$**	**125,625.00**

CONTRACTOR SCOPE

CONSTRUCTION

Item	Description	Quantity	Units		Unit Cost		Total Cost
21	Mobilization / Demobilization	1	LS	$	300,000.00	$	300,000.00
22	Construction Stakeout	1	LS	$	75,000.00	$	75,000.00
23	Cut to Fill[4]	180,000	CY	$	5.00	$	900,000.00
24	Erosion Control Maintenance	9	MON	$	4,000.00	$	36,000.00
25	Fine Grading (SCM)	67,760	SY	$	1.00	$	67,760.00
26	Utility Removal (storm, water, gas, sewer)[5]	500	LF	$	500.00	$	250,000.00
27	Construction Entrance	2	EA	$	5,500.00	$	11,000.00
28	Concrete Washout	2	EA	$	2,000.00	$	4,000.00
29	Silt Fence and Silt Fence Outlets	10,000	LF	$	6.00	$	60,000.00
30	Temp Seeding and Straw	44	AC	$	2,300.00	$	100,050.00
31	SCM Topsoil	7,663	CY	$	15.00	$	114,950.00
32	SCM Riprap	80	TN	$	60.00	$	4,800.00
33	SCM Riser Outlet Structure (12' x 12' Concrete Box w/ Anti-Float Block)	1	EA	$	250,000.00	$	250,000.00
34	SCM Outlet Pipe w/ Concrete Cradle (2 - 4' x 4' Concrete Box Culvert)	200	LF	$	500.00	$	100,000.00
35	SCM Permanent Seeding and Straw - Native Wetland Mix	14	AC	$	2,700.00	$	37,800.00
36	SCM Planting - Wetland Plugs	110,000	EA	$	4.00	$	440,000.00
37	SCM Planting - Trees (1" Caliper)	20	EA	$	100.00	$	2,000.00
38	SCM Planting - Shrubs (1 Gallon)	50	EA	$	30.00	$	1,500.00
39	SCM - Annual Maintenance Cost[6]	1	LS	$	124,090.50	$	124,090.50
40	Site Permanent Seeding - Native Grasses	34	AC	$	1,750.00	$	59,500.00
41	Elizabeth Rd Outfall Riprap	370	TN	$	60.00	$	22,200.00
42	Elizabeth Rd Outfall Coir 700 Matting	500	SY	$	6.00	$	3,000.00
43	Eizabeth Outfall Livestakes	1,125	EA	$	4.00	$	4,500.00
					25% Contingency =	**$**	**821,171.63**
					SUBTOTAL =	**$**	**3,789,322.13**
41	Urban Trees (3" Caliper)	200	EA	$	1,000.00	$	200,000.00
42	Urban Trees - Annual Maintenance Cost[6]	1	LS	$	116,536.00	$	116,536.00
					PHASE 2 PROJECT COST =	**$**	**4,231,483.13**

Phase 2 Subrecipient Management Costs (5% of Phase 2 Costs) =	**$**	**211,574.16**
Phase 2 Project Cost + Subrecipient Management Cost =	**$**	**4,443,057.29**
Phase 2 Wilson Match (30%)	$	1,332,917.19
Phase 2 Federal Cost-Share (70%)	$	3,110,140.10

ENGINEER'S OPINION OF PROBABLE COST

Phase: Concept Design
Date: 1/5/2023

OVERALL PROJECT

Total Project Cost
$8,516,483.13

Total Subrecipient Management Cost
$425,824.16

TOTAL PROJECT BUDGET
$8,942,307.29

Total Wilson Match (30%)
$2,682,692.19

Total Federal Cost-Share (70%)
$6,259,615.10

ASSUMPTIONS AND EXCLUSIONS

1. Cost estimate is based on conceptual design prepared for 2022 FEMA BRIC Application.
2. Demolition costs shown are pulled from estimate provided by DH Griffin dated June 15, 2022
3. Asbestos inspection is included, however any abatement or restoration is excluded from this cost estimate.
4. Excludes costs associated with earthwork haul-off. Assumes excess material will be utilized on-site.
5. Assumes approximately 500 linear feet of utilities to be removed.
6. Annual Maintenance costs as calculated from BCA toolkit for the SCM and Urban Trees have been included as line items.
7. Scope and budget include design and permitting of park elements, however, park elements will be constructed at a later date with independent funding. Construction budget only includes costs associated demolition, SCM construction, and Elizabeth Road outfall stabilization.

APPENDIX B
Demolition Cost Estimate + Property Tax Card

City Council votes to buy Wilson Mall for $3 million

Open Audio Article Player

October 23, 2022

By Nicholas Schnittker
nschnittker@wilsontimes.com | 252-265-7821

0:00 / 0:00

The city of Wilson will purchase the Wilson Mall from the Hull Property Group for $3 million after a unanimous vote to approve the deal during Thursday's City Council meeting. Lisa Boykin Batts | Times

The city of Wilson will buy the vacant Wilson Mall for $3 million after the City Council unanimously approved the purchase Thursday evening.

"For many years, we have searched for ways to acquire the property so that it could beneficial to the community," Mayor Carlton Stevens said in a press release. "Years of talks with the mall owner have

 ff with the acquisition of the property. We can begin to imagine the possibilities for

redevelopment to make the best use of this geographic and historically significant site. I'm so excited for the possibilities."

City officials said the Augusta, Georgia-based Hull Property Group will retain the mall's outparcels, including the land on which the AMC Classic Wilson 10 movie theater sits. Several buildings on the outparcels will be demolished to make room for new development, according to the release.

Money from the American Rescue Plan Act made the purchase possible, with the city allocating $2 million for commercial redevelopment from the nearly $16 million it received.

The Wilson City Council hasn't approved any plans to redevelop the roughly 45-acre site for specific projects. Officials said the city will explore a variety of options the acquisition is complete.

"City Council has been persistent in their desire to see the mall property redeveloped, yet patient enough to allow the right opportunity to develop," City Manager Grant Goings said in the press release. "Hull Properties and the city have worked together for several years to find an opportunity that works for all parties, and most importantly, that creates new development and amenities for our community."

Commercial redevlopment was one of Wilson's priorities for its allocation of ARPA money.

Related Stories by Restoration NewsMedia

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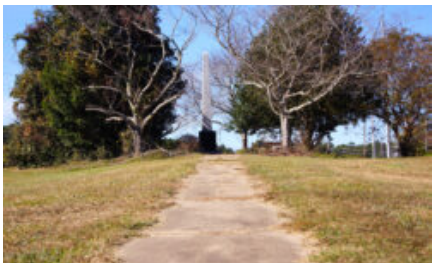
Park, retention pond to replace Wilson Mall's former Kroger

Mayor Carlton Stevens revealed more of the city's plan for the recently purchased Wilson Mall property on Tuesday, announcing that...

Senate candidate Cheri Beasley stumps in Wilson

Democratic U.S. Senate candidate Cheri Beasley made a campaign appearance in Wilson on Thursday, bringing out about 60 supporters including...



City deeds Vick to Wilson Cemetery Commission

The Wilson City Council unanimously voted to transfer ownership of Vick Cemetery to the Wilson Cemetery Commission as part of...

NOTES

- AREAS COMPUTED BY COORDINATE CALCULATIONS
- ALL DISTANCES SHOWN ARE HORIZONTAL
- ALL RIGHT-OF-WAYS ARE PUBLIC UNLESS NOTED OTHERWISE
- IRONS ARE TO BE SET AT ALL CORNERS
- NO WETLANDS WERE DELINEATED ON THIS PROPERTY
- THIS PROPERTY IS NOT LOCATED IN A FLOOD HAZARD AREA PANEL NO. 3720371100J & 3720371200J WILSON CO. DATED 11/2004.
- A PORTION OF THIS PROPERTY IS LOCATED IN THE WS4-P PROTECTED WATERSHED AREA
- REFERENCES: DEED BOOK 2082 PAGE 275 & 291
  DEED BOOK 1570 PAGE 885
  DEED BOOK 1648 PAGE 496
  PLAT BOOK 14 PAGE 139
- THIS PLAT IS SUBJECT TO ALL EASEMENTS, AGREEMENTS, AND RIGHT-OF-WAYS OF RECORD PRIOR TO THE DATE OF THIS PLAT.
- NO RIGHTS ARE CONFERRED BY THE OWNER'S EXECUTION OR RECORDATION OF THIS RECOMBINATION PLAT.
- H/S WILSON, LLC OWNS LOT 1, PART OF LOT 2, LOT 3, PART OF LOT 4, LOT 5, LOT 6, LOT 7, AND LOT 8 IN FEE SIMPLE AND THE REMAINDER OF LOTS 2 AND 4 IN LEASEHOLD.
- THERE ARE NO STREETS, ALLEYS, WALKS, OR OTHER SITES OR AREAS DEDICATED BY THIS PLAT. NO EASEMENTS OF ANY NATURE SHALL BE CREATED OR DEEMED CREATED BY THIS PLAT. NOTHING ON THIS PLAT SHALL BE DEEMED TO CREATE ANY ENCUMBRANCE, DEDICATION, EASEMENT, COVENANT, RESTRICTION OR ANY RIGHT IN FAVOR OF ANY PERSON OR ENTITY WITH RESPECT TO THE PROPERTY SHOWN HEREON. *

SITE DATA

AREA:	61.7 ACRES
ZONE:	B-3
MIN. BUILDING LINES:	FRONT - 50' SIDE - 15', 0' ST. SIDE - 50' REAR - 15', 30'
STREET ADDRESS:	1501 WARD BOULEVARD
TOTAL NO. OF LOTS:	8

CERTIFICATE OF APPROVAL UNDER WATERSHED PROTECTION REGULATIONS

I CERTIFY THAT A PORTION OF THE (PLAT/DEVELOPMENT PLAN) SHOWN HEREON IS IN THE WS4-P WATERSHED DISTRICT. ANY DEVELOPMENT THAT DISTURBS MORE THAN ONE ACRE WILL BE SUBJECT TO WATERSHED REGULATIONS.

PUBLIC SERVICES/WATERSHED ADMINISTRATOR — DATE 10-25-06

I CERTIFY THAT THE (PLAT/DEVELOPMENT PLAN) SHOWN HEREON COMPLIES WITH THE NEUSE RIVER BASIN STORMWATER PROGRAM FOR NITROGEN REMOVAL REGULATIONS FOR THE CITY OF WILSON.

ANY FUTURE DEVELOPMENT THAT DISTURBS MORE THAN ONE-HALF ACRE WILL BE SUBJECT TO THE NITROGEN REMOVAL REGULATIONS.

PUBLIC SERVICES/STORMWATER — DATE 10-25-06

I hereby certify that I (we) am (are the owner(s) of the property shown and described hereon and that I (we) do adopt this plan of subdivision with my (our) free consent, establish minimum building lines, and dedicate all streets, alleys, walks and other sites to public or private use as noted. I (we) further understand that such public dedication may any other public use authorized by the City Charter or any general, local, or special law pertaining to the City of Wilson when such use is approved the City Council in the public interest. Further, I (we) certify that the land as shown hereon is within the platting jurisdiction of the City of Wilson, North Carolina.

Owner AGENT MALL MANAGER — Date 10/25/06

I, Rebecca D. Rose, City Clerk of the City of Wilson, North Carolina do hereby certify that the foregoing plat has been approved by the Technical Review Committee on October 25, 2006.

City Clerk Rebecca D. Rose — Date 10-25-06

I, William A. Bartlett, certify that this survey is of another category, such as the recombination of existing parcels, a court-ordered survey, or other exception to the definition of subdivision.

I, William A. Bartlett, certify that this plat was drawn under my supervision from an actual survey made under my supervision; that the ratio of precision as calculated by latitudes and departures is 1/10,000+; that the boundaries not surveyed are shown as broken lines plotted from information found in ~~Book~~ AS SHOWN, ~~Page~~ ON PLAT; that this plat was prepared in accordance with G.S. 47-30 as amended. Witness my original signature, license number and seal this 25 day of OCTOBER, 2006.

Professional Land Surveyor L-3788

North Carolina
Wilson County

I, Janet Batten Holland, Review Officer of Wilson County, certify that the map or plat to which this certification is affixed meets all statutory requirements for recordation.

Review Officer — Date 10-26-06

NORTH CAROLINA PROFESSIONAL SEAL L-3788 LAND SURVEYOR WILLIAM A. BARTLETT — 10/25/06

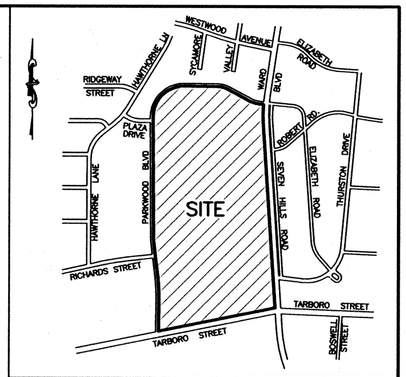
LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S03°48'57"E	110.73
L2	N86°18'03"E	9.67
L3	N16°32'55"W	10.59
L4	S78°38'33"W	77.96
L5	N03°49'55"W	60.79
L6	N86°10'05"E	134.67
L7	S04°06'18"W	124.35
L8	N87°03'42"W	135.32
L9	N04°24'18"E	123.85
L10	S87°16'51"E	134.68
L11	N00°09'33"E	32.61
L12	N67°04'38"E	10.75
L13	N78°35'27"E	114.78
L14	S03°48'57"E	36.24
L15	S78°35'27"W	103.18
L16	S67°04'38"W	35.86
L17	S03°50'27"E	20.00
L18	S78°39'15"W	20.18

CURVE TABLE						
CURVE	LENGTH	RADIUS	DELTA	TANGENT	CHORD BRG.	CHORD
C1	152.80	1224.44	7°09'00"	76.50	N03°24'57"W	152.70
C2	142.82	1144.24	7°09'05"	71.50	S03°24'56"E	142.73
C3	437.45	274.03	91°27'52"	281.13	S45°53'28"W	392.46
C4	183.78	369.26	28°30'58"	93.84	N74°07'07"W	181.89
C5	162.93	371.54	25°07'30"	82.79	S72°25'23"E	161.62
C6	37.65	26.11	82°37'09"	22.95	N43°40'33"W	34.47

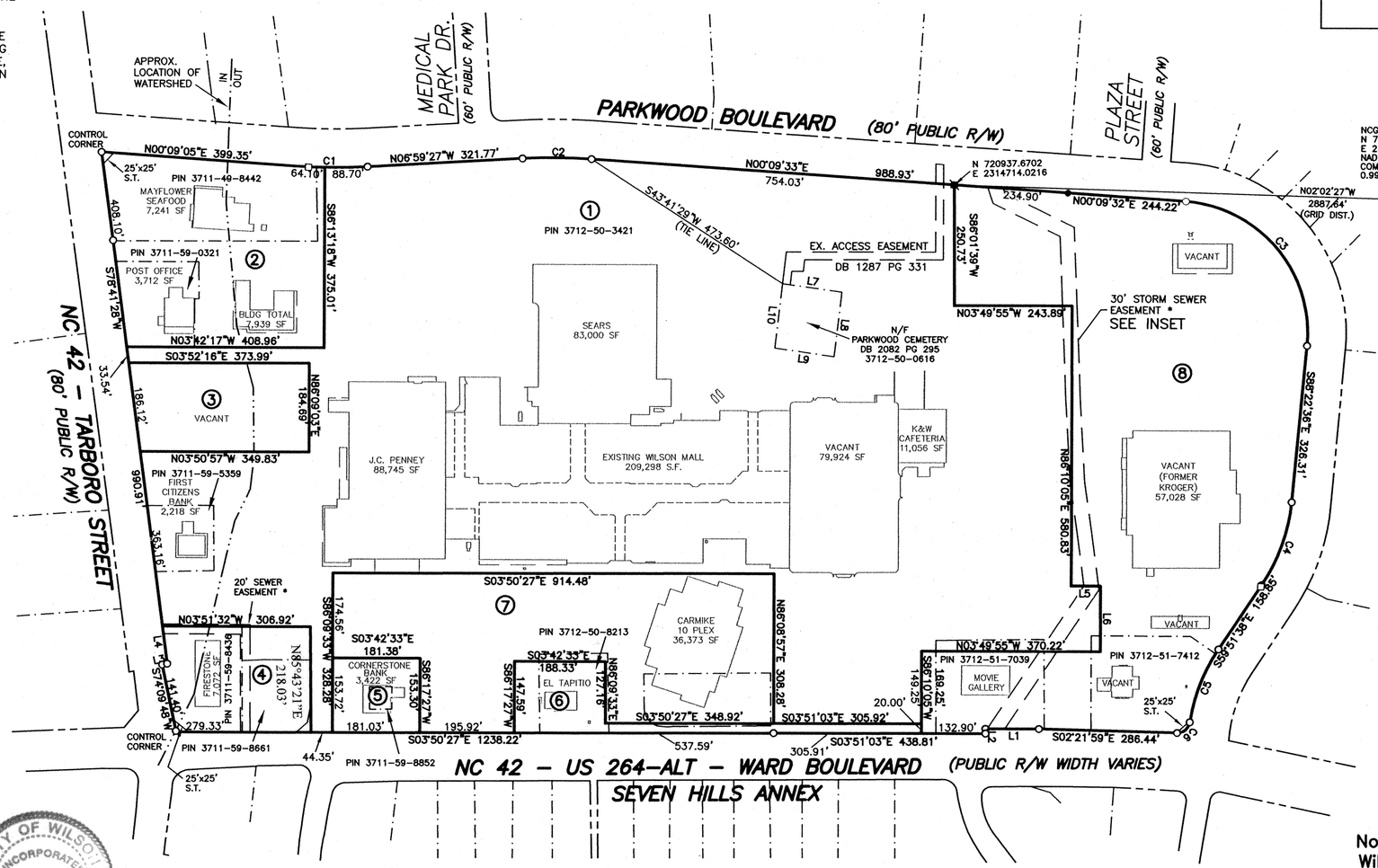
AREA TABLE

LOT NO.	AREA
1	35.10 AC.
2	3.88 AC.
3	1.53 AC.
4	1.48 AC.
5	0.63 AC.
6	0.93 AC.
7	5.45 AC.
8	12.69 AC.

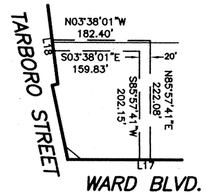
DB 2082 PG 275,291
NC GRID NAD 83



LOCATION MAP
NO SCALE



INSET
30' STORM SEWER EASEMENT
1" = 200'



INSET
20' SEWER EASEMENT
1" = 200'

GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.

LEGEND

- ● NEW IRON PIPE
- ○ EXISTING IRON PIPE
- ○ EXISTING IRON PIPE DISTURBED
- △ EXISTING NCGS MONUMENT
- □ EXISTING CONCRETE MONUMENT
- ■ NEW PK NAIL

CROSS EASEMENTS FOR INGRESS, EGRESS, UTILITIES, DRAINAGE, ETC. AND RESTRICTIONS ON USE ARE CONTAINED IN A DECLARATION OF EASEMENTS AND RESTRICTIONS EXECUTED BY H/S WILSON, LLC ON _____ AND RECORDED IN THE WILSON COUNTY REGISTER OF DEEDS IN BOOK _____ AT PAGE _____.

* DECLARATION OF UTILITY EASEMENTS FROM H/S WILSON, LLC TO THE CITY OF WILSON DATED Oct. 26, 2006, AND RECORDED IN THE WILSON COUNTY REGISTER OF DEEDS IN BOOK 2208 AT PAGE 218.

OWNER:
H/S WILSON, LLC
c/o HULL STOREY RETAIL GROUP, LLC
JOHN GIBSON
1190 INTERSTATE PARKWAY
AUGUSTA, GA 30909

North Carolina
Wilson County
Filed For Registration
at 3:24 o'clock a.m.\p.m. 26 day of Oct. 2006 and recorded
in Book 35 Page 214
Register of Deeds

PROPERTY OF
H/S WILSON, LLC

BARTLETT
ENGINEERING & SURVEYING, PC
1906 NASH STREET NORTH
WILSON, N.C. 27893-1726
TELE: (252) 399-0704
FAX: (252) 399-0804
EMAIL: info@bartletteng.com

DATE: OCT. 2006	SURVEY BY: T. BASS	PROJECT: 06-380	
SCALE: 1" = 200'	DRAWN BY: LR	FB #: 06-05T, 06-03	
REVISIONS	COMMENTS BY ATTORNEY 10-5-06 TRC COMMENTS 10-5-06 TRC COMMENTS 10-24-06	CODE: HULLSTOR DWG FILE: 06380RP1	

RECOMBINATION PLAT

WILSON MALL

CITY OF WILSON — WILSON COUNTY
NORTH CAROLINA — ZONE: B-3

Wilson County
PROPERTY REPORT - PRINT

Property Owner	Owner's Mailing Address	Property Location Address
H/S WILSON LLC (HULL STOREY)	ATTN: TAX DEPT PO BOX 204227 AUGUSTA , GA 30917-4227	1501 WARD BLVD

Administrative Data

Parcel ID No.	**3712503423.000**
PIN	**3712 50 3423 000**
Owner ID	**69953200**
Tax District	**31 - C/CIWI-WILSON**
Land Use Code	**23**
Land Use Desc	**BANKS**
Neighborhood	**8355 - WARD-TARBORO_B-3**

Administrative Data

Legal Desc	**1501 WARD BLVD L1 35.10AC**
Deed Year Bk/Pg	**2006 - 2082 / 291**
Plat Bk/Pg	**39 / 115**

Sales Information

Grantor	
Sold Date	**0--0**
Sold Amount $	**0**

Valuation Information

Market Value $ **2,750,000**

Market Value - Land and all permanent improvements, if any, effective January 1, 2016, date of County's most recent General Reappraisal

Assessed Value $ 2,750,000

If Assessed Value not equal Market Value then subject parcel designated as a special class -agricultural, horticultural, or forestland and thereby eligible for taxation on basis of Present-Use.

Improvement Detail

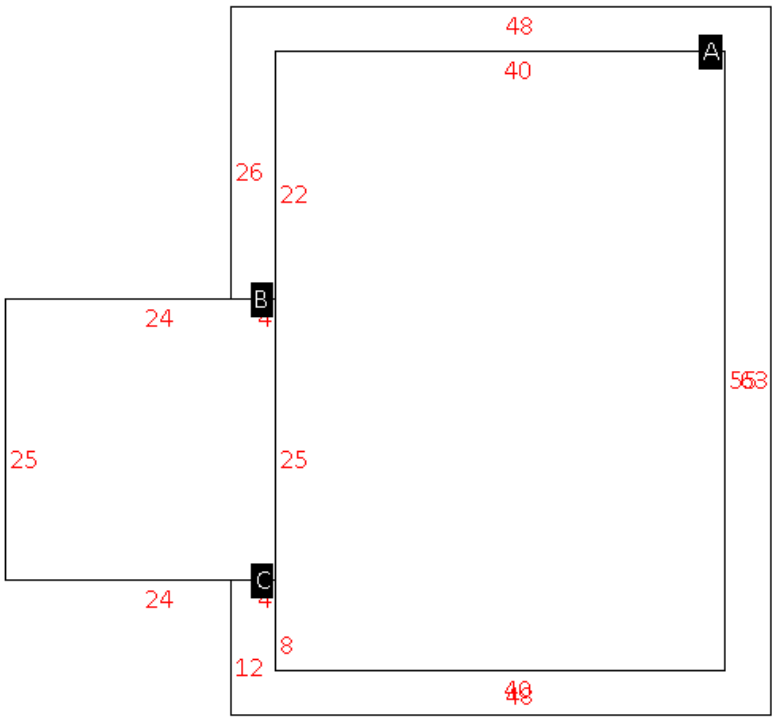
Year Built	**1968**
Built Use/Style	**BANKS**
Grade	**C / C GRADE**
* Percent Complete	**100**
Heated Area (S/F)	**2,200**
Fireplace (Y/N)	**N**
Basement (Y/N)	**N**
** Bedroom(s)	**0**
** Bathroom(s)	**0 Full Bath(s) Half Bath(s)**
*** Multiple Improvements	**005**

* Note - As of January 1
* * Note - Bathroom(s), Bedroom(s), shown for description only
* * * Note - If multiple improvements equal "MLT" then parcel includes additional major improvements

Property Record Card

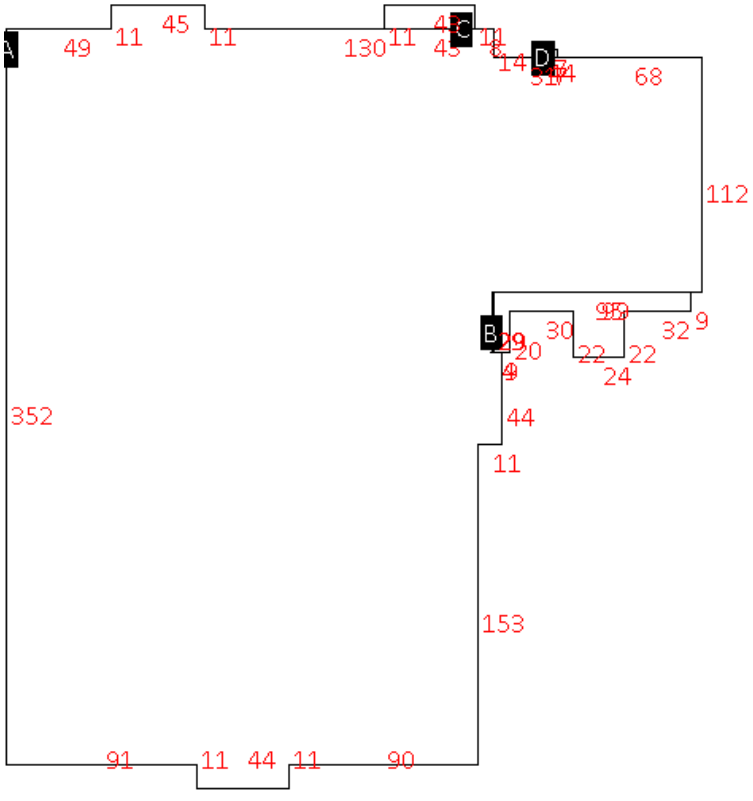
Building Sketch - NOTE: Sketches are updated the first day of every month.

(Building 1) - Sketch for Parcel ID: **3712503423.000**
NOTE: Sketches are updated the first day of every month.



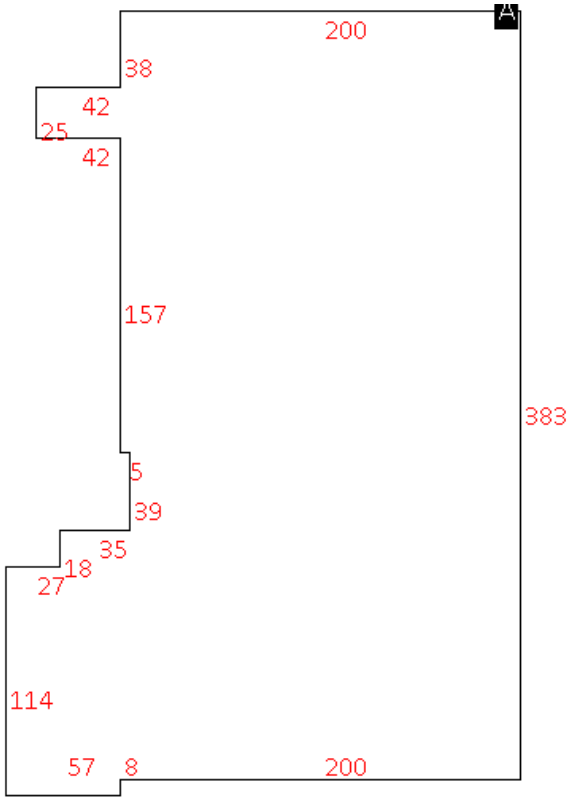
Label	Description	Base SF	Total SF
A	BANK-BRANCH	2200.00	2200.00
B	CANOPY-ECONOMY	724.00	.00
C	CARPORT	600.00	.00

(Building 2) - Sketch for Parcel ID: **3712503423.000**
NOTE: Sketches are updated the first day of every month.



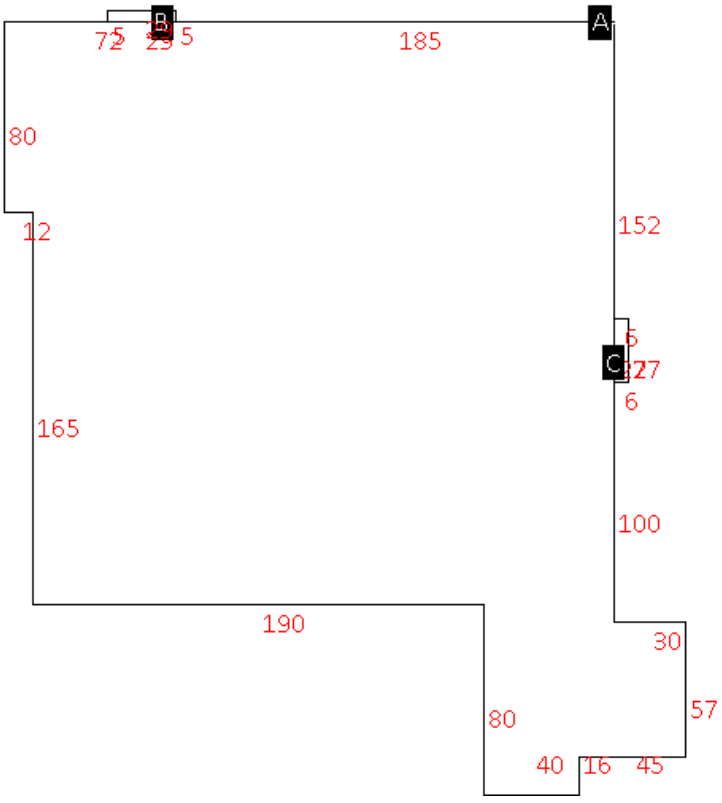
Label	Description	Base SF	Total SF
A	SHOPPING CENTER-MALL	92836.00	92836.00
B	PORCH-OPEN-FR	1563.00	.00
C	UTILITY STG-FR	473.00	.00
D	PORCH-OPEN-FR	28.00	.00

(Building 3) - Sketch for Parcel ID: **3712503423.000**
NOTE: Sketches are updated the first day of every month.



Label	Description	Base SF	Total SF
A	SHOPPING CENTER-MALL	84493.00	84493.00

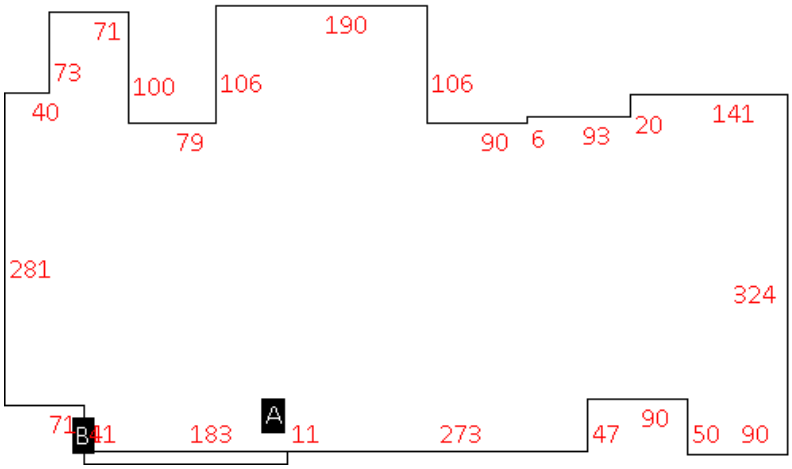
(Building 4) - Sketch for Parcel ID: **3712503423.000**
NOTE: Sketches are updated the first day of every month.



Label	Description	Base SF	Total SF
A	SHOPPING CENTER-MALL	66855.00	66855.00
B	PORCH-OPEN-FR	145.00	.00
C	PORCH-OPEN-FR	162.00	.00

(Building 5) - Sketch for Parcel ID: **3712503423.000**
NOTE: Sketches are updated the first day of every month.

Label	Description	Base SF	Total SF
A	SHOPPING CENTER-MALL	234279.00	234279.00
B	CANOPY-ECONOMY	2002.00	.00



Land Supplemental

Map Acres	**35.1**
Tax District Note	**31 - C/CIWI-WILSON**
Present-Use Info	**BANKS**
Zoning Code	**HC**
Zoning Desc	**HIGHWAY COMMERCIAL**

Total Improvements Valuation

*Total Improvements Full Market Value $	**Total Improvements Assessed Value
0	**0**

* Note - Market Value effective Date equal January 1, 2016, date of County's most recent General Reappraisal
** Note - If Assessed Value not equal Market Value then variance resulting from formal appeal procedure

Land Value Detail (Effective Date January 1, 2016, date of County's most recent General Reappraisal)

Land Full Value (LFV) $	Land Present-Use Value (PUV) $ **	Land Total Assessed Value $
2,750,000	**2,750,000**	**2,750,000**

** Note: If PUV equal LMV then parcel ***has not*** qualified for present use program

Land Detail (Effective Date January 1, 2016, date of County's most recent General Reappraisal)

Rate Type	Rate Code	Description	Quantity
SF	**0715**	**SHOPPING CENTER-MALL**	**999999.000 .000**
SF	**0715**	**SHOPPING CENTER-MALL**	**528957.000 .000**

Building Photos

NOTE: Photos are updated yearly in March.


12/04/2015


12/04/2015


JCPenney
12/04/2015


12/04/2015


12/04/2015

Wilson County
PROPERTY REPORT - PRINT

Property Owner	Owner's Mailing Address	Property Location Address
H/S WILSON OUTPARCELS LLC	1190 INTERSTATE PKWY AUGUSTA , GA 30909	1673 PARKWOOD BLVD W

Administrative Data

Parcel ID No.	**3712512485.000**
PIN	**3712 51 2485 000**
Owner ID	**1008771**
Tax District	**31 - C/CIWI-WILSON**
Land Use Code	**10**
Land Use Desc	**COMMERICAL**
Neighborhood	**8355 - WARD-TARBORO_B-3**

Administrative Data

Legal Desc	**1673 PARKWOOD BLVD W L8 12.69AC**
Deed Year Bk/Pg	**2006 - 2211 / 503**
Plat Bk/Pg	**35 / 214**

Sales Information

Grantor

Sold Date	**0--0**
Sold Amount $	**0**

Valuation Information

Market Value $ **1,714,168**

Market Value - Land and all permanent improvements, if any, effective January 1, 2016, date of County's most recent General Reappraisal

Assessed Value $ 1,115,000

If Assessed Value not equal Market Value then subject parcel designated as a special class -agricultural, horticultural, or forestland and thereby eligible for taxation on basis of Present-Use.

Improvement Detail

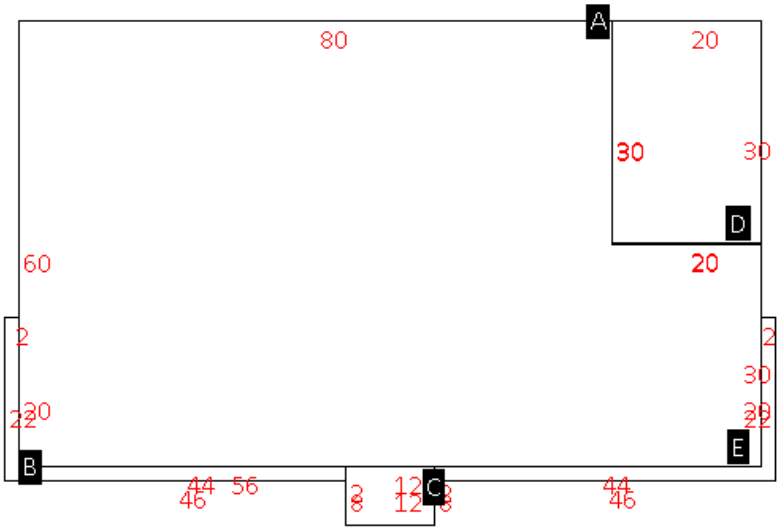
Year Built	**2000**
Built Use/Style	**SHOPPING CENTER- MALL**
Grade	**C+10 / C+10 GRADE**
* Percent Complete	**100**
Heated Area (S/F)	**59,696**
Fireplace (Y/N)	**N**
Basement (Y/N)	**N**
** Bedroom(s)	**0**
** Bathroom(s)	**0 Full Bath(s) Half Bath(s)**
*** Multiple Improvements	**003**

* Note - As of January 1
* * Note - Bathroom(s), Bedroom(s), shown for description only
* * * Note - If multiple improvements equal "MLT" then parcel includes additional major improvements

Property Record Card

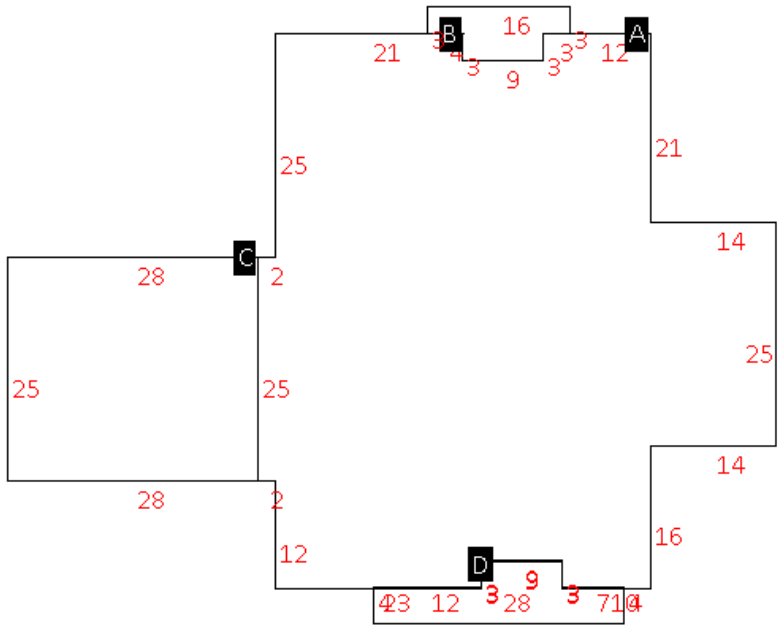
Building Sketch - NOTE: Sketches are updated the first day of every month.

(Building 1) - Sketch for Parcel ID: **3712512485.000**
NOTE: Sketches are updated the first day of every month.



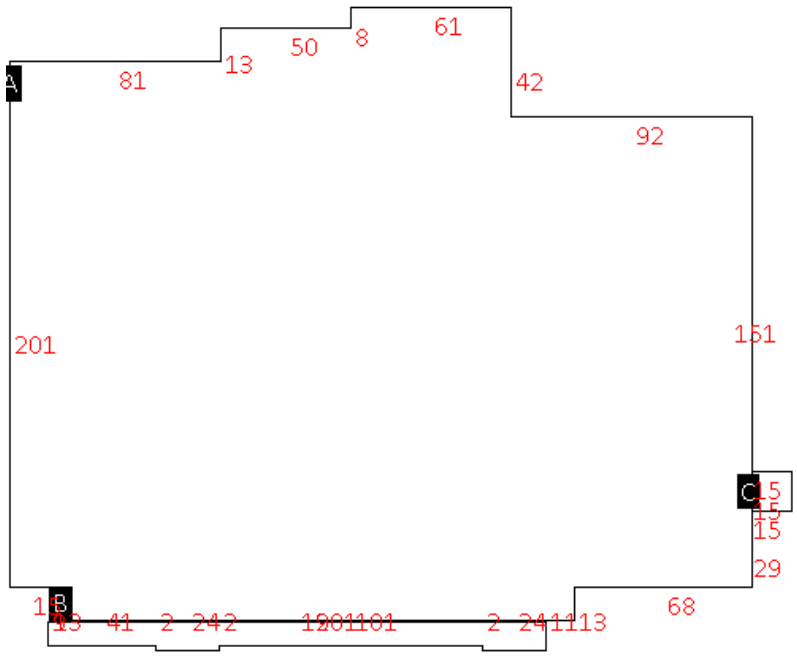
Label	Description	Base SF	Total SF
A	COMMERCIAL-MISC	5400.00	5400.00
B	CANOPY-ECONOMY	132.00	.00
C	PORCH-OPEN-FR	96.00	.00
D	OFFICE BUILDING	600.00	600.00
E	CANOPY-ECONOMY	132.00	.00

(Building 2) - Sketch for Parcel ID: **3712512485.000**
NOTE: Sketches are updated the first day of every month.



Label	Description	Base SF	Total SF
A	BANK-BRANCH	2950.00	2950.00
B	CANOPY-ECONOMY	75.00	.00
C	CANOPY-ECONOMY	700.00	.00
D	CANOPY-ECONOMY	139.00	.00

(Building 3) - Sketch for Parcel ID: **3712512485.000**
NOTE: Sketches are updated the first day of every month.



Label	Description	Base SF	Total SF

Land Supplemental

Map Acres	**12.69**
Tax District Note	**31 - C/CIWI-WILSON**
Present-Use Info	**COMMERICAL**
Zoning Code	**HC**
Zoning Desc	**HIGHWAY COMMERCIAL**

Total Improvements Valuation

*Total Improvements Full Market Value $	**Total Improvements Assessed Value
967,920	**368,752**

* Note - Market Value effective Date equal January 1, 2016, date of County's most recent General Reappraisal
** Note - If Assessed Value not equal Market Value then variance resulting from formal appeal procedure

Land Value Detail (Effective Date January 1, 2016, date of County's most recent General Reappraisal)

Land Full Value (LFV) $	Land Present-Use Value (PUV) $ **	Land Total Assessed Value $
746,248	**746,248**	**746,248**

** Note: If PUV equal LMV then parcel ***has not*** qualified for present use program

Land Detail (Effective Date January 1, 2016, date of County's most recent General Reappraisal)

Rate Type	Rate Code	Description	Quantity
SF	**0715**	**SHOPPING CENTER-MALL**	**552776.400 .000**

Building Photos

NOTE: Photos are updated yearly in March.


12/04/2015

REVISED BUDGET PROPOSAL

D. H. GRIFFIN WRECKING COMPANY, INC.
421 RALEIGH VIEW ROAD, RALEIGH, NC 27610
PHONE 919-772-4711 FAX 919-772-4311
www.DHGgriffin.com – NC License # 35452

PROPOSAL TO: City of Wilson **DATE: June 15, 2022**
ATTN: Bill Bass **DHGW Proposal #: 2250-085**
JOB NAME: Wilson Mall Demolition **LOCATION: 1501 Ward Blvd., Wilson, NC**
CELL: **PHONE: 252-230-5091** **EMAIL:** bbass@wilsonnc.org

Based on site inspection and verbal descriptions, D. H. Griffin Wrecking Co., Inc. (DHGW) proposes the following scope of services:

***** We have included the increase in fuel and hauling cost in this revised quote along with the reduction of building demo scope of work*****

1. Provide necessary labor, equipment, trucking, disposal cost *(as clarified below)*, materials, insurance, etc. to perform work as indicated.
2. DHGW will demolish and dispose of materials off site in accordance with local, state and federal regulations.
3. Provide water as needed for dust control via onsite fire hydrants.
4. File required *National Emission Standards for Hazardous Air Pollutants* (NESHAP) forms ten (10) working days prior to commencement of any work related activities as mandated by state and federal law.
5. Apply for and secure the City of Wilson demo permit when approved.
6. Call 811 for utility locating.
7. Recover/recycle Freon.
8. Pump and remove grease traps.
9. Demo and dispose of the following items;

Out Buildings;

- *One (1) bank and Alibi Game Store complete with slabs, grade beams, footers, canopies, loading docks, drive thru islands, and associated sidewalks.*
- *Former Kroger store complete with slabs, grade beams, footers, canopies, loading docks, bollards, and associated sidewalks*

Main Mall Building

- *Mall structure including K&W Restaurant and Roses complete with concrete slabs, loading docks, grade beams, footers, associated sidewalks, interior debris, bollards, and trash compactors.*

10. Rough grade the sites utilizing existing material after demo of the slabs.

We propose hereby to perform the work as listed above numbered one through ten for the lump sum amount of: One Million Nine Hundred Fifty Thousand Dollars ($1,950,000.00) **

An asbestos inspection is required prior to demolition in accordance with federal and state regulations and DHGW's corporate safety program.

11. Demo and dispose of the existing asphalt with curb & gutter per sketch received on 6/14/2022 and hatched in red.

We propose hereby to perform the work as listed above numbered eleven for the lump sum amount of: Eight Hundred Seventy-Seven Thousand Dollars ($877,000.00) ** *(asphalt to be disposed of at City owned site at no cost to DHGW)*

Project Clarifications:

** Price includes one (1) mobilization**
** Quote is based on today's fuel prices and disposal rates.
** DHGW has include disposal cost for all construction debris**
** Engineering layout if required is by others**
** Concrete and painted block to be disposed of at a City of Wilson site at *NO COST to DHGW***
** **Owner or owner's representative may need to assist in securing local demo permit****
** Slab thickness not to exceed six (6") inches**
** Footers to be remove to a depth not to exceed four (4') feet**
** Utility terminations to be coordinated by the owner or owner's representative**
** The above quote is based on working Monday – Saturday, 7am to 5pm**
** Any delays or stoppages of work will be handled as an extra cost incurred by DHGW and will be invoiced to the owner or general contractor at an hourly or daily rate on equipment and labor**

DHGW does exclude the following items:

- Removal of asphalt, underground utilities curb and gutter or concrete walks.
- Removal of any slab or pavement base materials (*i.e*. stone, gravel, engineered fill, *etc)*.
- Protection and/or replacement of driveways and sidewalks that are to remain.
- Relocation, evacuation, disconnection, rerouting, capping, locating and marking of utilities within the demolition limits or protection of unmarked utilities within the limits of demolition.
- Sediment or erosion control, seeding, tree protection, construction/ security fences, barricades, and construction entrances
- Backfill and compaction.
- Removal and disposition of any hazardous or asbestos materials, including paint, except those items, if any, which are described and itemized above; whether concealed or not.
- Identification or removal of underground storage tanks (USTs) or their contents.
- Signs and/or barricades.

DHGW retains salvage rights to materials under the contract as reflected in this quote.

If awarded contract, DHGW requests that a copy of this proposal must become part of the contract documents.

Payment to be made as follows: **Upon Completion or Monthly Progress Billings**

All payments are due and payable as noted. Whenever retainage is required to be withheld, upon completion of D.H. Griffin Wrecking Company, Inc.'s (DHGW) scope of work (contract or sub-contract) DHGW will issue an invoice for work performed and a separate final invoice for retainage. All retainage is to be paid in full no later than forty-five (45) days from date of final invoice. Should the project duration exceed thirty (30) days monthly progress billings will be submitted and paid within thirty (30) days of submission. The undersigned further agrees to pay to D.H. Griffin Wrecking Company, Inc., a reasonable attorney's fee if the obligation evicenced hereby be collected by an attorney-at-law after maturity. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate.

Authorized Signature: *Ed Blount*

NOTE: This proposal may be withdrawn by DHGW if not accepted within 30 days of the above date.

Ed Blount – Estimator; 919-772-4711 eblount@dhgriffin.com

PLEASE SIGN, DATE AND RETURN ORIGINAL

Acceptance of Proposal *– The above prices, specifications and conditions are satisfactory and are hereby accepted. You are* ***authorized to do the work as specified. Payment will be made as outlined above.***

Signature	Name and Title	Date of Acceptance

APPENDIX C
Hydrologic Analysis

McAdams

Prepared For:

WILSON NORTH CAROLINA

HOMINY SWAMP STORMWATER PARK

FEMA 2022 BRIC APPLICATION

WATERSHED IMPACT EXHIBIT

Wilson, NC

Drawn By: RAS
Date: 1/4/2023
Scale: 1" = 650'
Project #: WIL21002.05

FIGURE

1

PEAK FLOW RATE RESULTS

POA - ELIZABETH RD

Return Period	Pre-Dev [cfs]	Post-Dev [cfs]	% Increase [%]	Post-Dev w/ SCM [cfs]	% Increase [%]
1-Year	290.98	156.02	-46%	19.06	-93%
2-Year	370.57	235.61	-36%	59.46	-84%
5-Year	481.11	358.43	-25%	160.72	-67%
10-Year	590.51	474.47	-20%	270.06	-54%
25-Year	733.80	631.68	-14%	391.95	-47%
50-Year	857.48	765.77	-11%	462.57	-46%
100-Year	983.36	902.34	-8%	519.55	-47%

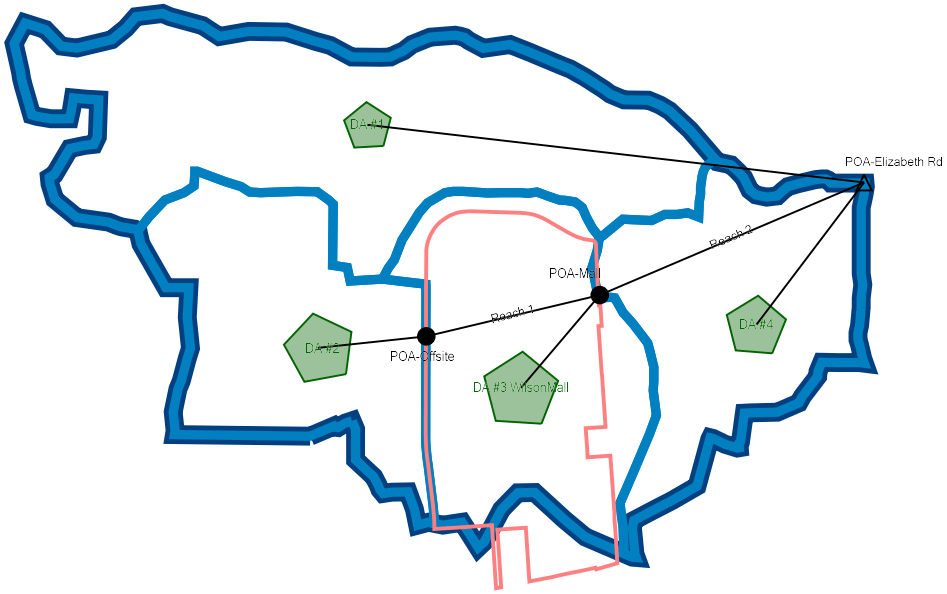
POA - MALL

Return Period	Pre-Dev [cfs]	Post-Dev [cfs]	% Increase [%]	Post-Dev w/ SCM [cfs]	% Increase [%]
1-Year	269.61	131.09	-51%	14.37	-95%
2-Year	326.95	186.17	-43%	46.98	-86%
5-Year	393.31	262.83	-33%	127.32	-68%
10-Year	459.10	335.22	-27%	214.87	-53%
25-Year	536.74	427.69	-20%	310.60	-42%
50-Year	602.09	504.16	-16%	357.29	-41%
100-Year	666.37	579.88	-13%	386.20	-42%

DA#3 - Wilson Mall

Return Period	Pre-Dev [cfs]	Post-Dev [cfs]	% Increase [%]	Post-Dev w/ SCM [cfs]	% Increase [%]
1-Year	265.57	126.06	-53%	149.44	-44%
2-Year	317.01	174.64	-45%	201.34	-36%
5-Year	370.88	240.16	-35%	267.06	-28%
10-Year	424.21	300.33	-29%	327.37	-23%
25-Year	482.32	373.27	-23%	398.71	-17%
50-Year	529.71	431.79	-18%	455.64	-14%
100-Year	574.46	487.98	-15%	509.84	-11%

Scenario: Pre Project



Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (min)	Peak Flow (ft^3/s)
DA #2	Pre- 1yr 24hr	1	3.027	741.00	24.36
DA #2	Pre- 2yr 24hr	2	4.695	740.00	40.32
DA #2	Pre- 5yr 24hr	5	7.842	740.00	65.77
DA #2	Pre- 10yr 24hr	10	10.903	740.00	89.59
DA #2	Pre- 25yr 24hr	25	15.891	740.00	122.39
DA #2	Pre- 50yr 24hr	50	20.550	737.00	150.28
DA #2	Pre- 100yr 24hr	100	25.984	737.00	178.86
DA #1	Pre- 1yr 24hr	1	5.739	740.00	47.59
DA #1	Pre- 2yr 24hr	2	8.800	740.00	76.88
DA #1	Pre- 5yr 24hr	5	14.530	740.00	122.92
DA #1	Pre- 10yr 24hr	10	20.074	740.00	165.88
DA #1	Pre- 25yr 24hr	25	29.070	740.00	224.56
DA #1	Pre- 50yr 24hr	50	37.444	739.00	274.27
DA #1	Pre- 100yr 24hr	100	47.189	736.00	324.64
DA #3 WilsonMall	Pre- 1yr 24hr	1	12.532	721.00	265.57
DA #3 WilsonMall	Pre- 2yr 24hr	2	15.777	721.00	317.01
DA #3 WilsonMall	Pre- 5yr 24hr	5	21.154	721.00	370.88
DA #3 WilsonMall	Pre- 10yr 24hr	10	25.871	721.00	424.21
DA #3 WilsonMall	Pre- 25yr 24hr	25	33.045	721.00	482.32
DA #3 WilsonMall	Pre- 50yr 24hr	50	39.381	721.00	529.71
DA #3 WilsonMall	Pre- 100yr 24hr	100	46.525	721.00	574.46
DA #4	Pre- 1yr 24hr	1	2.374	747.00	16.44
DA #4	Pre- 2yr 24hr	2	3.826	746.00	28.93
DA #4	Pre- 5yr 24hr	5	6.630	742.00	50.68
DA #4	Pre- 10yr 24hr	10	9.409	742.00	71.62
DA #4	Pre- 25yr 24hr	25	13.999	742.00	101.27
DA #4	Pre- 50yr 24hr	50	18.333	742.00	126.77
DA #4	Pre- 100yr 24hr	100	23.425	742.00	153.05

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (min)	Peak Flow (ft^3/s)
POA-Elizabeth Rd	Pre- 1yr 24hr	1	23.653	725.00	290.98
POA-Elizabeth Rd	Pre- 2yr 24hr	2	33.072	725.00	370.57
POA-Elizabeth Rd	Pre- 5yr 24hr	5	50.111	726.00	481.11
POA-Elizabeth Rd	Pre- 10yr 24hr	10	66.207	726.00	590.51
POA-Elizabeth Rd	Pre- 25yr 24hr	25	91.935	726.00	733.80
POA-Elizabeth Rd	Pre- 50yr 24hr	50	115.626	726.00	857.48
POA-Elizabeth Rd	Pre- 100yr 24hr	100	143.025	726.00	983.36
POA-Mall	Pre- 1yr 24hr	1	15.559	721.00	269.61
POA-Mall	Pre- 2yr 24hr	2	20.473	721.00	326.95
POA-Mall	Pre- 5yr 24hr	5	28.995	721.00	393.31
POA-Mall	Pre- 10yr 24hr	10	36.774	721.00	459.10
POA-Mall	Pre- 25yr 24hr	25	48.936	721.00	536.74
POA-Mall	Pre- 50yr 24hr	50	59.931	721.00	602.09
POA-Mall	Pre- 100yr 24hr	100	72.509	721.00	666.37
POA-Offsite	Pre- 1yr 24hr	1	3.027	741.00	24.36
POA-Offsite	Pre- 2yr 24hr	2	4.695	740.00	40.32
POA-Offsite	Pre- 5yr 24hr	5	7.842	740.00	65.77

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (min)	Peak Flow (ft^3/s)
POA-Offsite	Pre- 10yr 24hr	10	10.903	740.00	89.59
POA-Offsite	Pre- 25yr 24hr	25	15.891	740.00	122.39
POA-Offsite	Pre- 50yr 24hr	50	20.550	737.00	150.28
POA-Offsite	Pre- 100yr 24hr	100	25.984	737.00	178.86

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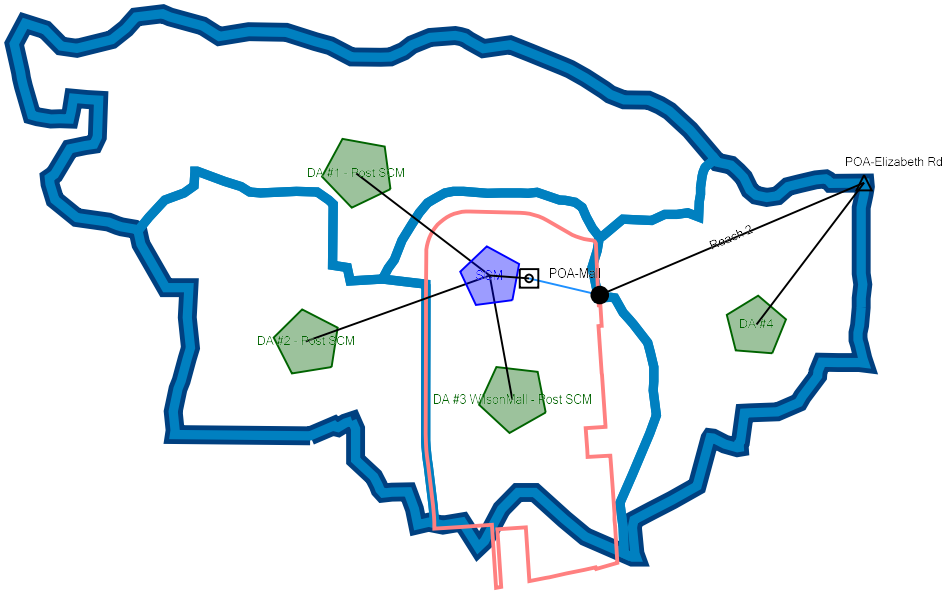
Scenario: Post Project with SCM



Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (min)	Peak Flow (ft^3/s)
DA #4	Post SCM - 1yr 24hr	1	2.374	747.00	16.44
DA #4	Post SCM - 2yr 24hr	2	3.826	746.00	28.93
DA #4	Post SCM - 5yr 24hr	5	6.630	742.00	50.68
DA #4	Post SCM - 10yr 24hr	10	9.409	742.00	71.62
DA #4	Post SCM - 25yr 24hr	25	13.999	742.00	101.27
DA #4	Post SCM - 50yr 24hr	50	18.333	742.00	126.77
DA #4	Post SCM - 100yr 24hr	100	23.425	742.00	153.05
DA #1 - Post SCM	Post SCM - 1yr 24hr	1	5.739	740.00	47.59
DA #1 - Post SCM	Post SCM - 2yr 24hr	2	8.800	740.00	76.88
DA #1 - Post SCM	Post SCM - 5yr 24hr	5	14.530	740.00	122.92
DA #1 - Post SCM	Post SCM - 10yr 24hr	10	20.074	740.00	165.88
DA #1 - Post SCM	Post SCM - 25yr 24hr	25	29.070	740.00	224.56
DA #1 - Post SCM	Post SCM - 50yr 24hr	50	37.444	739.00	274.27
DA #1 - Post SCM	Post SCM - 100yr 24hr	100	47.189	736.00	324.64
DA #2 - Post SCM	Post SCM - 1yr 24hr	1	3.027	741.00	24.36
DA #2 - Post SCM	Post SCM - 2yr 24hr	2	4.695	740.00	40.32
DA #2 - Post SCM	Post SCM - 5yr 24hr	5	7.842	740.00	65.77
DA #2 - Post SCM	Post SCM - 10yr 24hr	10	10.903	740.00	89.59
DA #2 - Post SCM	Post SCM - 25yr 24hr	25	15.891	740.00	122.39
DA #2 - Post SCM	Post SCM - 50yr 24hr	50	20.550	737.00	150.28
DA #2 - Post SCM	Post SCM - 100yr 24hr	100	25.984	737.00	178.86
DA #3 WilsonMall - Post SCM	Post SCM - 1yr 24hr	1	6.915	722.00	149.44
DA #3 WilsonMall - Post SCM	Post SCM - 2yr 24hr	2	9.578	721.00	201.34
DA #3 WilsonMall - Post SCM	Post SCM - 5yr 24hr	5	14.237	721.00	267.06
DA #3 WilsonMall - Post SCM	Post SCM - 10yr 24hr	10	18.490	721.00	327.37
DA #3 WilsonMall - Post SCM	Post SCM - 25yr 24hr	25	25.142	721.00	398.71
DA #3 WilsonMall - Post SCM	Post SCM - 50yr 24hr	50	31.137	721.00	455.64
DA #3 WilsonMall - Post SCM	Post SCM - 100yr 24hr	100	37.983	721.00	509.84

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (min)	Peak Flow (ft^3/s)
POA-Elizabeth Rd	Post SCM - 1yr 24hr	1	10.632	747.00	19.06
POA-Elizabeth Rd	Post SCM - 2yr 24hr	2	19.098	773.00	59.46
POA-Elizabeth Rd	Post SCM - 5yr 24hr	5	34.804	763.00	160.72
POA-Elizabeth Rd	Post SCM - 10yr 24hr	10	50.153	758.00	270.06
POA-Elizabeth Rd	Post SCM - 25yr 24hr	25	74.798	754.00	391.95
POA-Elizabeth Rd	Post SCM - 50yr 24hr	50	97.790	750.00	462.57
POA-Elizabeth Rd	Post SCM - 100yr 24hr	100	124.416	748.00	519.55

Node Summary

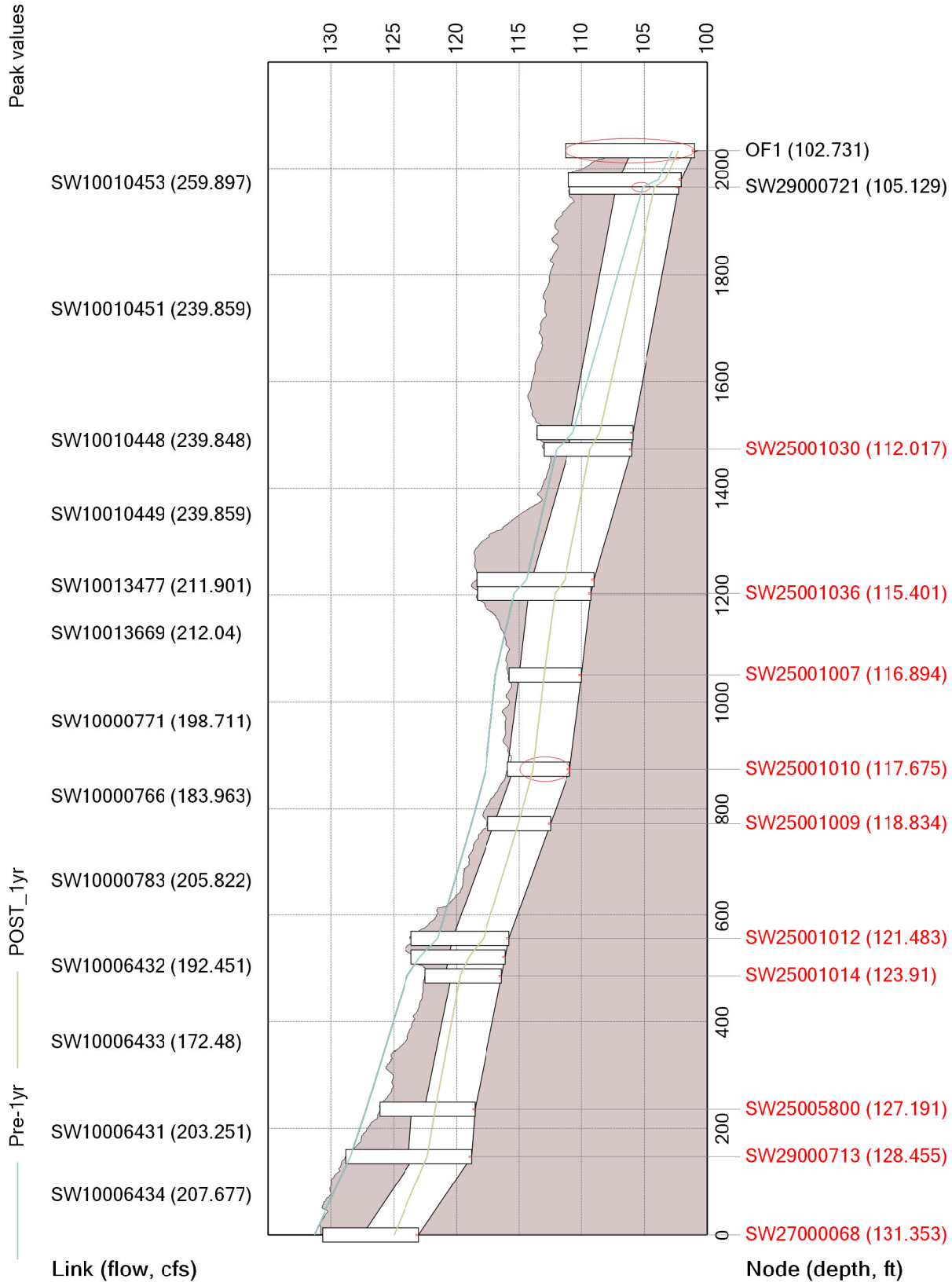
Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (min)	Peak Flow (ft^3/s)
POA-Mall	Post SCM - 1yr 24hr	1	8.286	809.00	14.37
POA-Mall	Post SCM - 2yr 24hr	2	15.314	783.00	46.98
POA-Mall	Post SCM - 5yr 24hr	5	28.245	765.00	127.32
POA-Mall	Post SCM - 10yr 24hr	10	40.829	757.00	214.87
POA-Mall	Post SCM - 25yr 24hr	25	60.917	755.00	310.60
POA-Mall	Post SCM - 50yr 24hr	50	79.598	758.00	357.29
POA-Mall	Post SCM - 100yr 24hr	100	101.164	763.00	386.20

Pond Summary

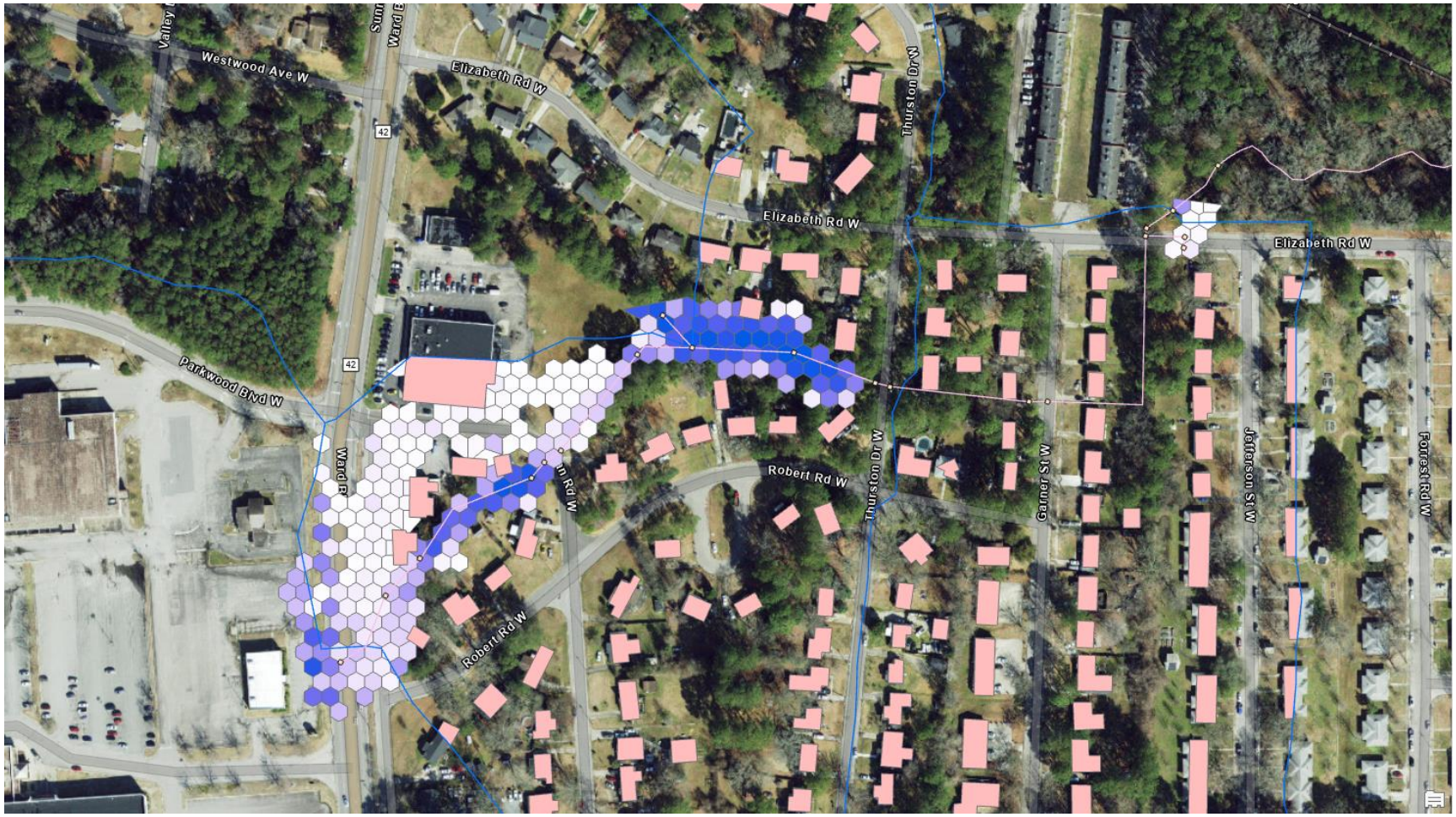
Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (min)	Peak Flow (ft^3/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
SCM (IN)	Post SCM - 1yr 24hr	1	15.681	722.00	165.10	(N/A)	(N/A)
SCM (OUT)	Post SCM - 1yr 24hr	1	8.286	809.00	14.37	129.49	8.532
SCM (IN)	Post SCM - 2yr 24hr	2	23.073	722.00	234.82	(N/A)	(N/A)
SCM (OUT)	Post SCM - 2yr 24hr	2	15.314	783.00	46.98	129.86	11.130
SCM (IN)	Post SCM - 5yr 24hr	5	36.609	722.00	336.21	(N/A)	(N/A)
SCM (OUT)	Post SCM - 5yr 24hr	5	28.245	765.00	127.32	130.32	14.722
SCM (IN)	Post SCM - 10yr 24hr	10	49.467	722.00	431.82	(N/A)	(N/A)
SCM (OUT)	Post SCM - 10yr 24hr	10	40.829	757.00	214.87	130.62	17.657
SCM (IN)	Post SCM - 25yr 24hr	25	70.103	722.00	558.04	(N/A)	(N/A)
SCM (OUT)	Post SCM - 25yr 24hr	25	60.917	755.00	310.60	131.00	22.029
SCM (IN)	Post SCM - 50yr 24hr	50	89.131	722.00	665.17	(N/A)	(N/A)
SCM (OUT)	Post SCM - 50yr 24hr	50	79.598	758.00	357.29	131.37	26.798
SCM (IN)	Post SCM - 100yr 24hr	100	111.156	722.00	773.51	(N/A)	(N/A)
SCM (OUT)	Post SCM - 100yr 24hr	100	101.164	763.00	386.20	131.80	32.644

APPENDIX D
Hydraulic Analysis

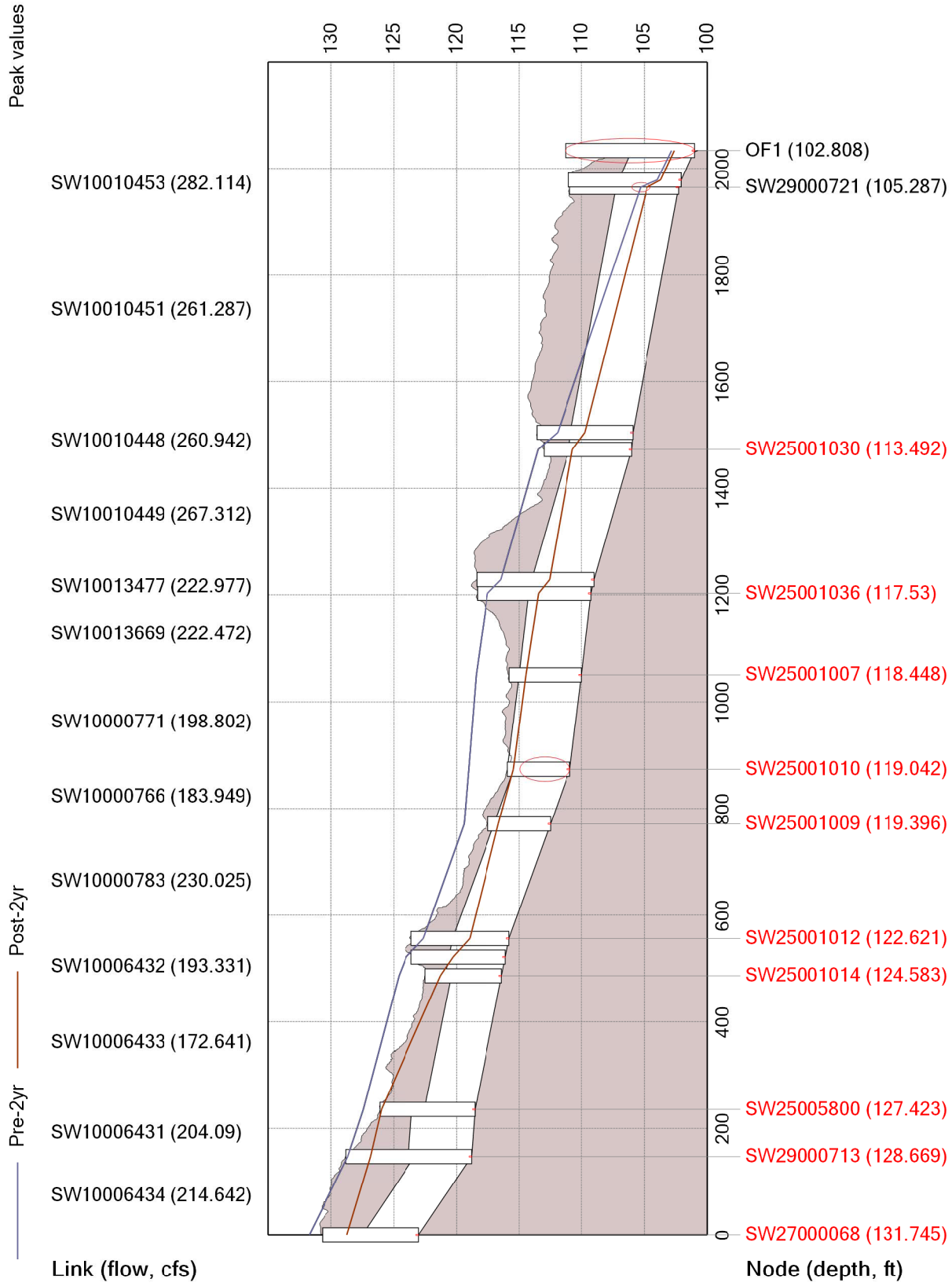

Negative_Slopes
Conduits
Junctions
Westwood Ave W
Sycamore St W
Hawthorne L
Sunnyside Ln W
Ward Bl
Thurston Dr W
Elizabeth Rd W
Parkwood Blvd W
Robert Rd W
Lillian Rd W
Thurston Dr W
Garner St W
Jefferson St W
Ward Blvd
Annex Rd W
3rd St W
3rd St W
Parkwood Blvd W
Parkwood Plz
Wilson Mall
42
OUTFALL
INVERT = 101
RIM = 116.07
INVERT = 112.07
RIM = 117.50
INVERT = 113.50
RIM = 123.59
INVERT = 119.59
RIM = 126.10
INVERT = 122.10
RIM = 134.83
INVERT = 133.83
RIM = 135.96
INVERT = 124.96
RIM = 138.02
INVERT = 130.02
RIM = 137.80
INVERT = 131.80
RIM = 129.71
INVERT = 124.71
RIM = 130.71
INVERT = 123.00
(ASSUMED)
RIM = 128.82
INVERT = 118.82
RIM = 122.49
INVERT = 118.49
RIM = 115.80
INVERT = 111.80
RIM = 118.40
INVERT = 113.00
(ASSUMED)
RIM = 115.94
INVERT = 111.94
RIM = 113.59
INVERT = 119.59
RIM = 118.35
INVERT = 114.35
RIM = 113.01
INVERT = 106.01
RIM = 113.58
INVERT = 105.90
(ASSUMED)
RIM = 110.54
INVERT = 106.54
RIM = 110.94
INVERT = 105.94
DIA =3.5'
DIA =4'
DIA =4.5'
DIA =2.5'
DIA =2'
DIA =5'
DIA =1.25'
NC CGIA, Maxar, Microsoft, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA


Peak values
130
125
120
115
110
105
100
2000
1800
1600
1400
1200
1000
800
600
400
200
0
OF1 (102.731)
SW29000721 (105.129)
SW10010453 (259.897)
SW10010451 (239.859)
SW10010448 (239.848)
SW10010449 (239.859)
SW10013477 (211.901)
SW10013669 (212.04)
SW10000771 (198.711)
SW10000766 (183.963)
SW10000783 (205.822)
SW10006432 (192.451)
SW10006433 (172.48)
SW10006431 (203.251)
SW10006434 (207.677)
SW25001030 (112.017)
SW25001036 (115.401)
SW25001007 (116.894)
SW25001010 (117.675)
SW25001009 (118.834)
SW25001012 (121.483)
SW25001014 (123.91)
SW25005800 (127.191)
SW29000713 (128.455)
SW27000068 (131.353)
POST_1yr
Pre-1yr
Link (flow, cfs)
Node (depth, ft)

PRE-PROJECT 1-YR



POST-PROJECT 1-YR


Peak values
130
125
120
115
110
105
100
OF1 (102.808)
SW29000721 (105.287)
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SW10010448 (260.942)
SW25001030 (113.492)
SW10010449 (267.312)
SW10013477 (222.977)
SW25001036 (117.53)
SW10013669 (222.472)
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SW10000771 (198.802)
SW25001010 (119.042)
SW10000766 (183.949)
SW25001009 (119.396)
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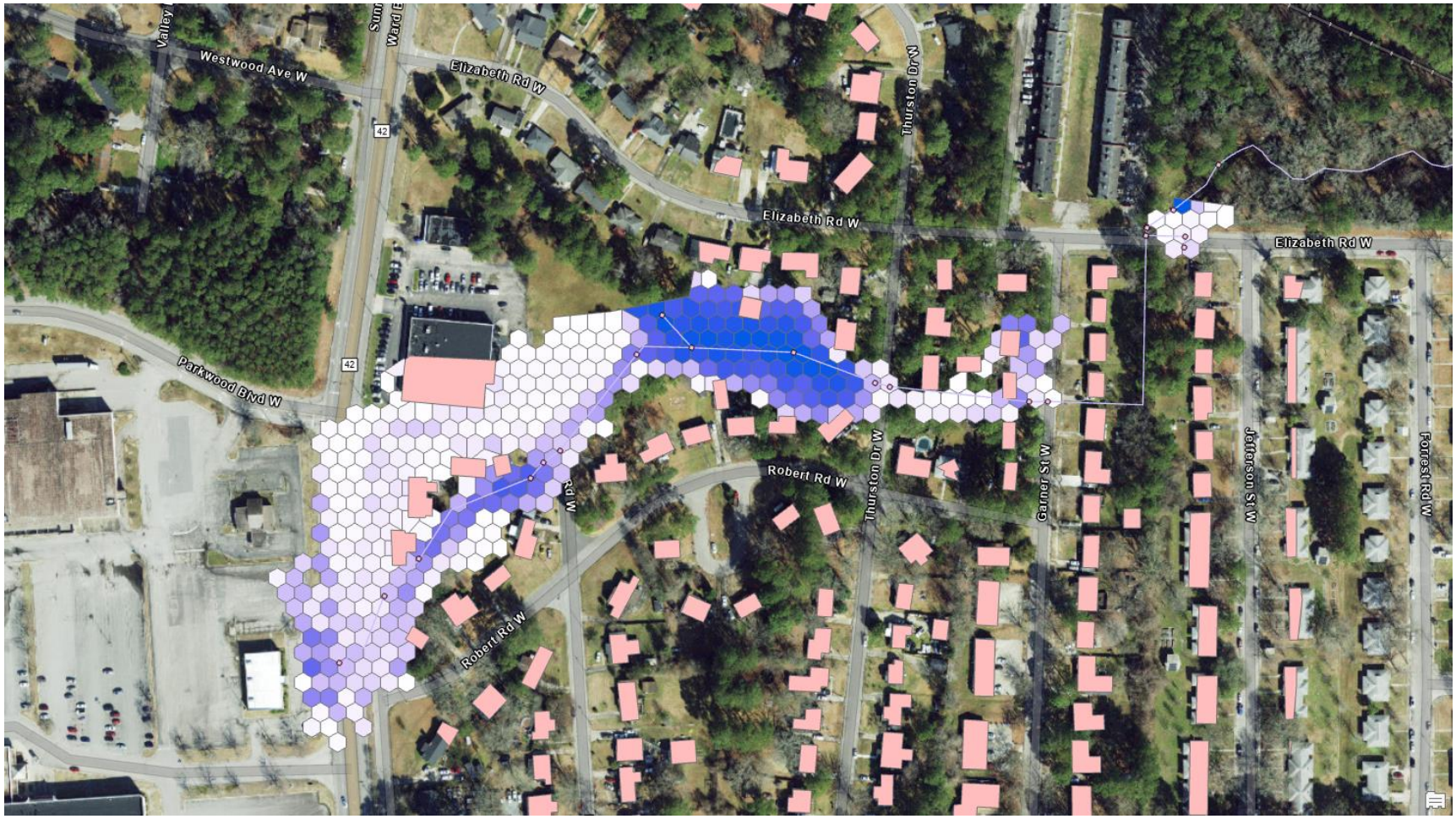
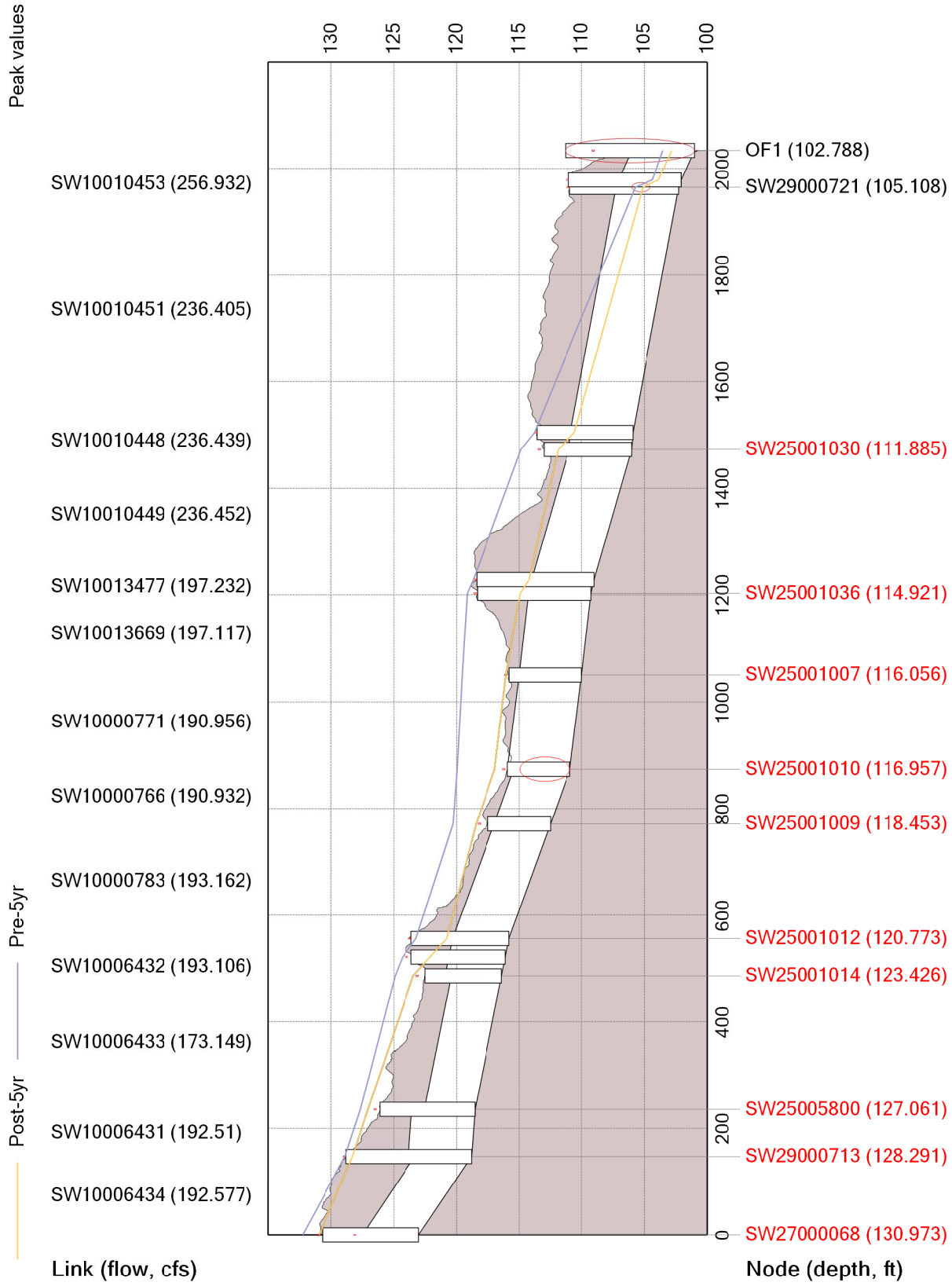
SW25001012 (122.621)
SW10006432 (193.331)
SW25001014 (124.583)
SW10006433 (172.641)
SW25005800 (127.423)
SW10006431 (204.09)
SW29000713 (128.669)
SW10006434 (214.642)
SW27000068 (131.745)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Post-2yr
Pre-2yr
Link (flow, cfs)
Node (depth, ft)

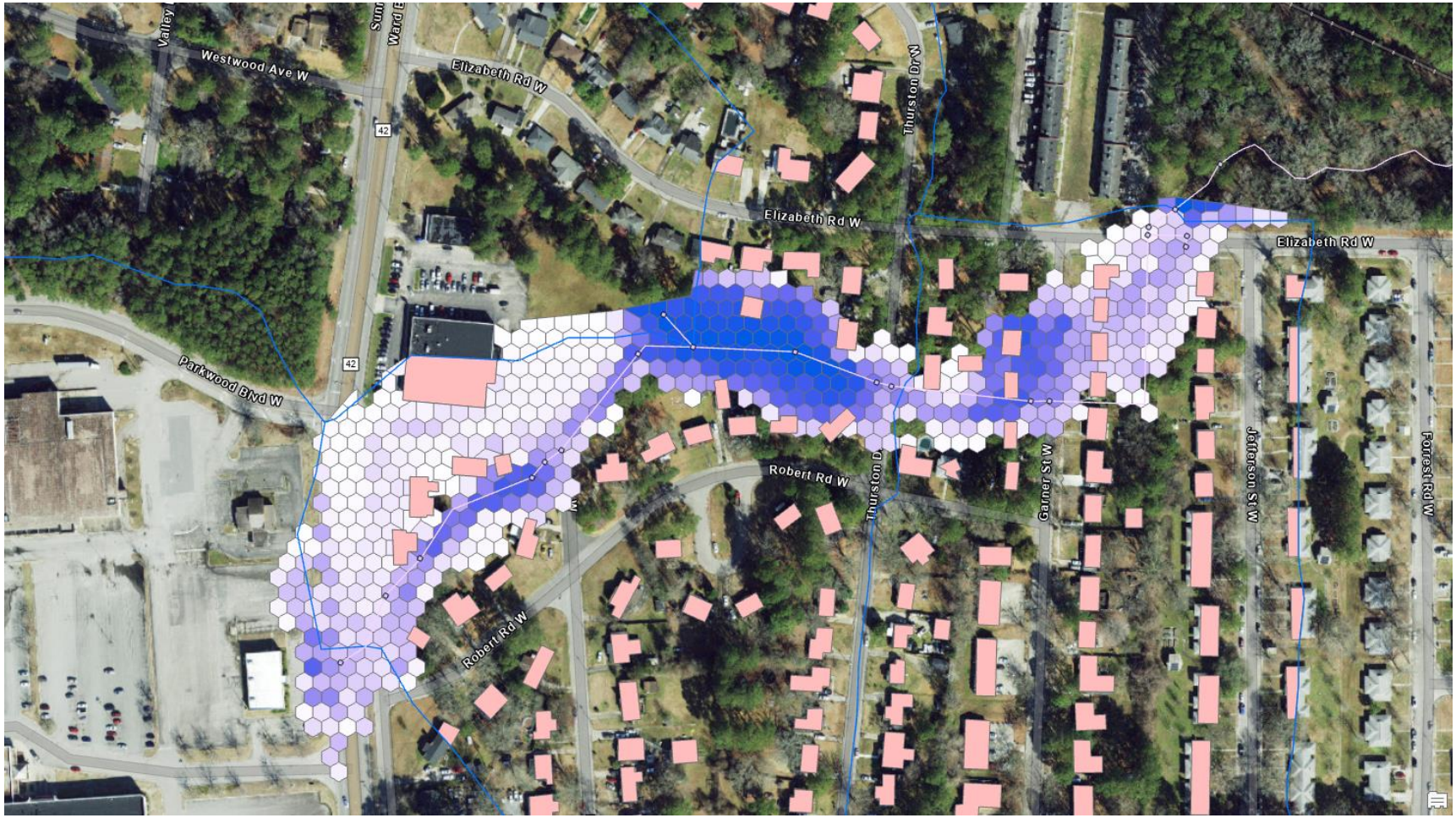
PRE-PROJECT 2-YR



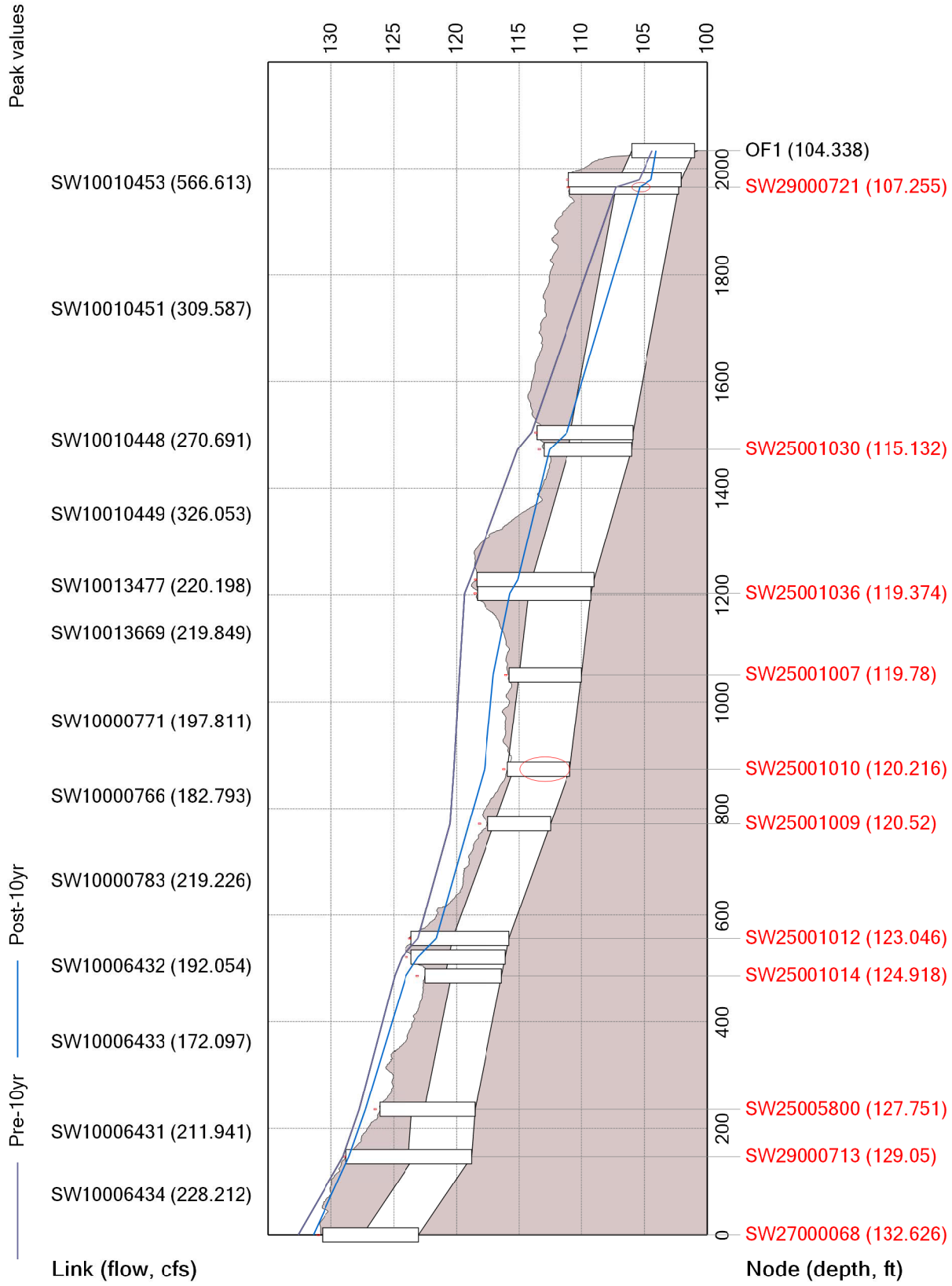
POST-PROJECT 2-YR


Peak values
130
125
120
115
110
105
100
OF1 (102.788)
SW29000721 (105.108)
SW10010453 (256.932)
SW10010451 (236.405)
SW10010448 (236.439)
SW25001030 (111.885)
SW10010449 (236.452)
SW10013477 (197.232)
SW25001036 (114.921)
SW10013669 (197.117)
SW25001007 (116.056)
SW10000771 (190.956)
SW25001010 (116.957)
SW10000766 (190.932)
SW25001009 (118.453)
SW10000783 (193.162)
SW25001012 (120.773)
SW10006432 (193.106)
SW25001014 (123.426)
SW10006433 (173.149)
SW25005800 (127.061)
SW10006431 (192.51)
SW29000713 (128.291)
SW10006434 (192.577)
SW27000068 (130.973)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Pre-5yr
Post-5yr
Link (flow, cfs)
Node (depth, ft)

PRE-PROJECT 5-YR



POST-PROJECT 5-YR


Peak values
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125
120
115
110
105
100
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SW10010453 (566.613)
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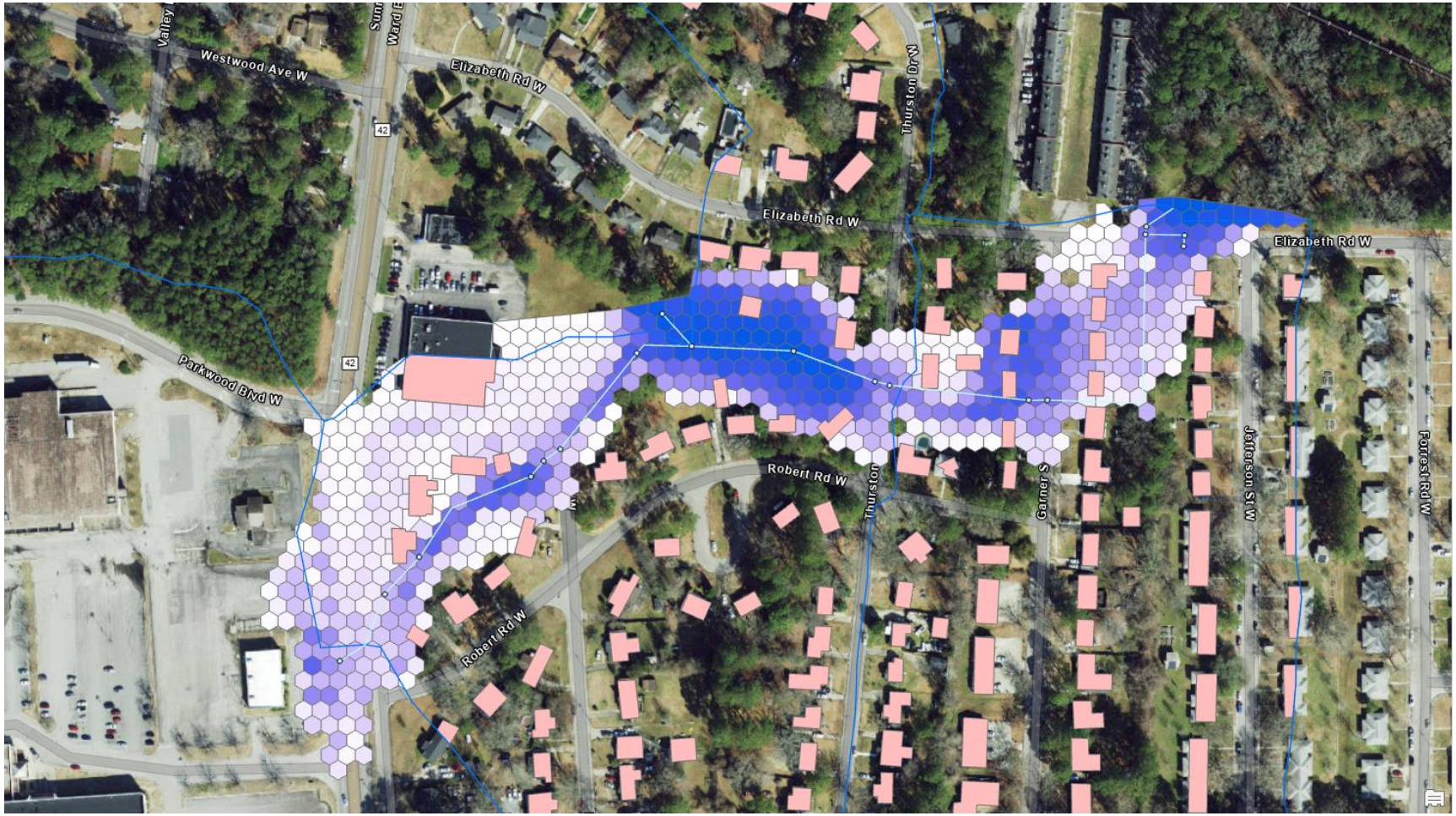
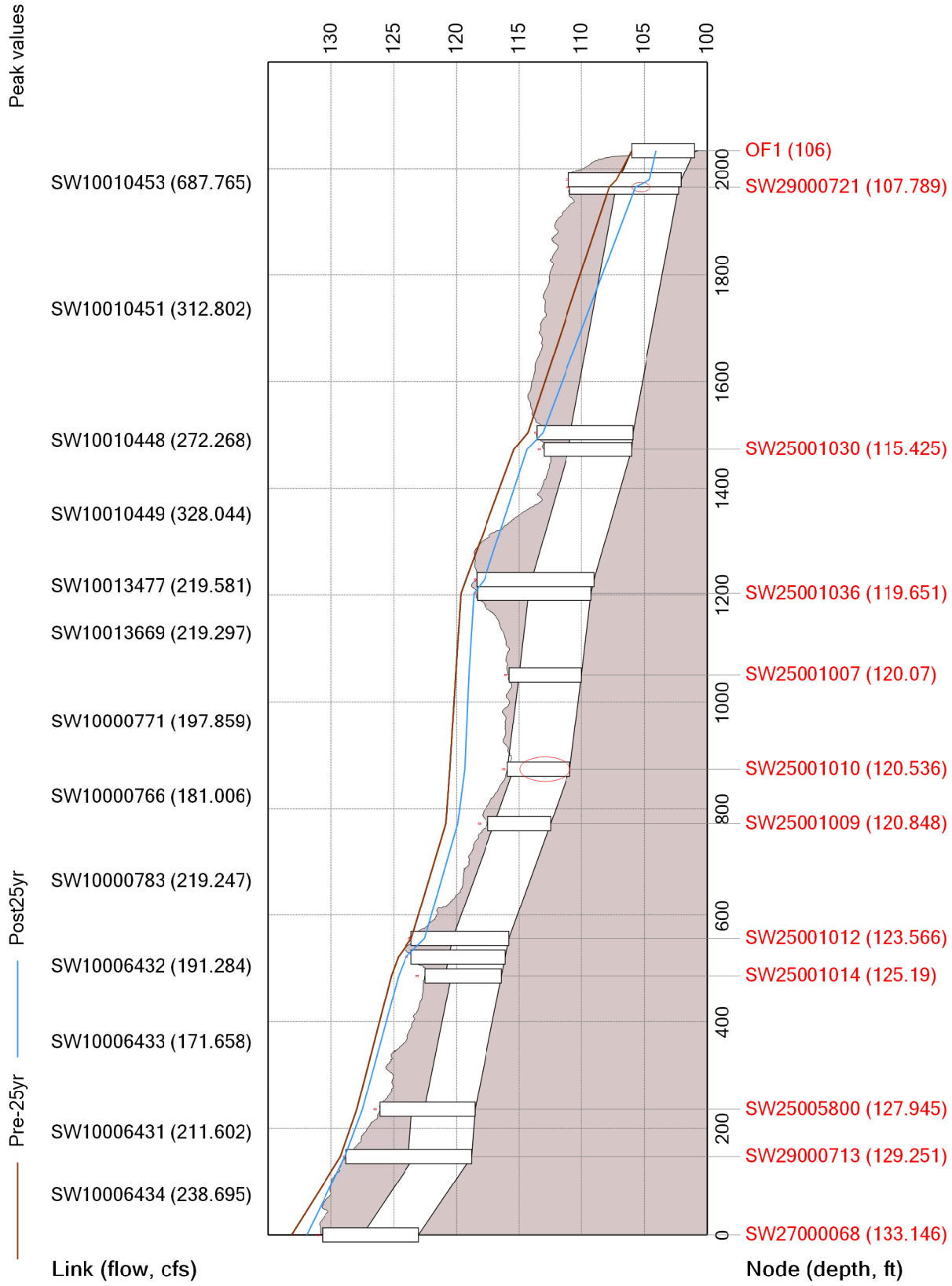
SW10010448 (270.691)
SW25001030 (115.132)
SW10010449 (326.053)
SW10013477 (220.198)
SW25001036 (119.374)
SW10013669 (219.849)
SW25001007 (119.78)
SW10000771 (197.811)
SW25001010 (120.216)
SW10000766 (182.793)
SW25001009 (120.52)
SW10000783 (219.226)
SW25001012 (123.046)
SW10006432 (192.054)
SW25001014 (124.918)
SW10006433 (172.097)
SW25005800 (127.751)
SW10006431 (211.941)
SW29000713 (129.05)
SW10006434 (228.212)
SW27000068 (132.626)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Post-10yr
Pre-10yr
Link (flow, cfs)
Node (depth, ft)

PRE-PROJECT 10-YR



POST-PROJECT 10-YR


Peak values
130
125
120
115
110
105
100
SW10010453 (687.765)
SW10010451 (312.802)
SW10010448 (272.268)
SW10010449 (328.044)
SW10013477 (219.581)
SW10013669 (219.297)
SW10000771 (197.859)
SW10000766 (181.006)
SW10000783 (219.247)
SW10006432 (191.284)
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SW10006431 (211.602)
SW10006434 (238.695)
Post25yr
Pre-25yr
Link (flow, cfs)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
OF1 (106)
SW29000721 (107.789)
SW25001030 (115.425)
SW25001036 (119.651)
SW25001007 (120.07)
SW25001010 (120.536)
SW25001009 (120.848)
SW25001012 (123.566)
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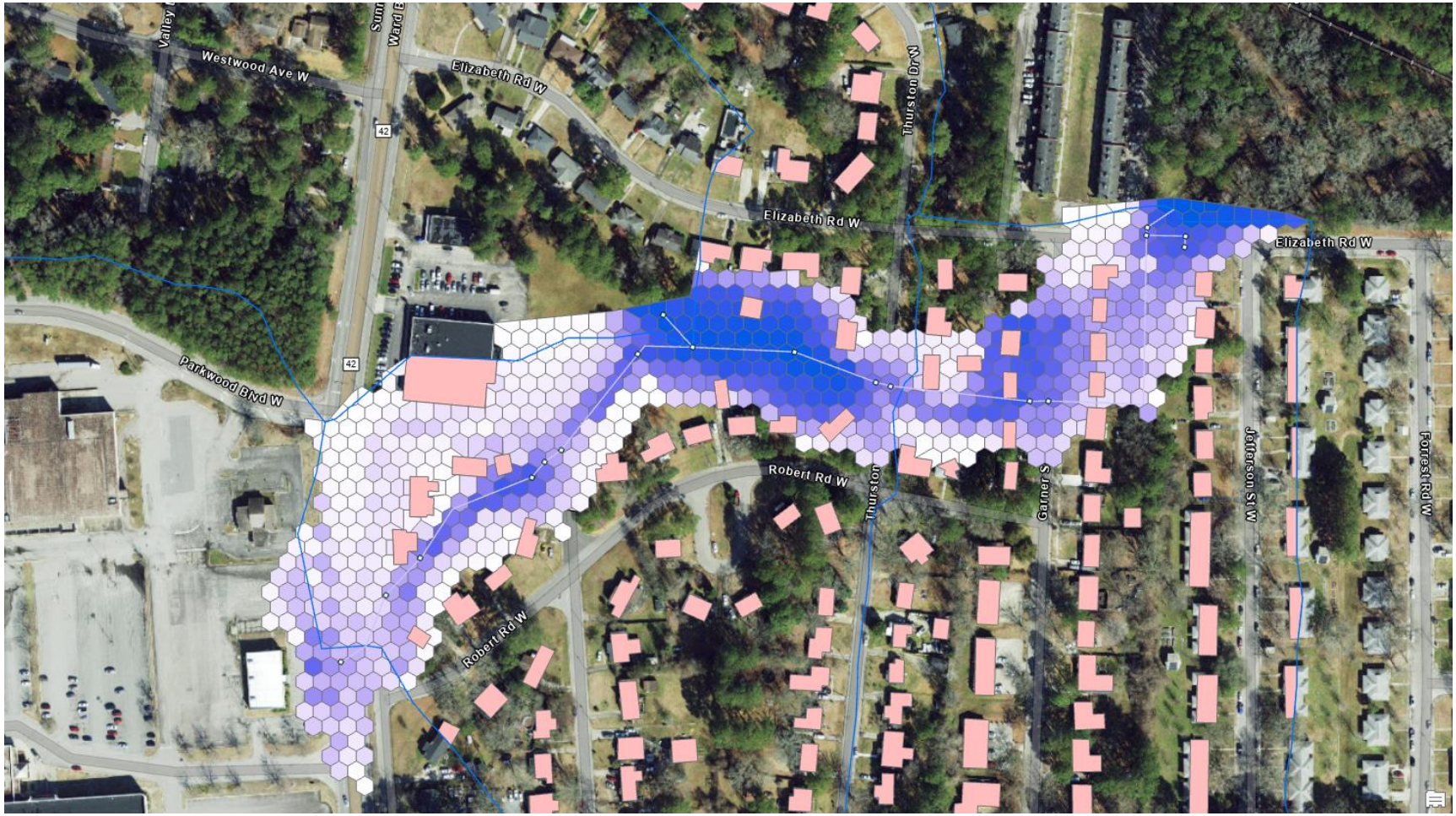
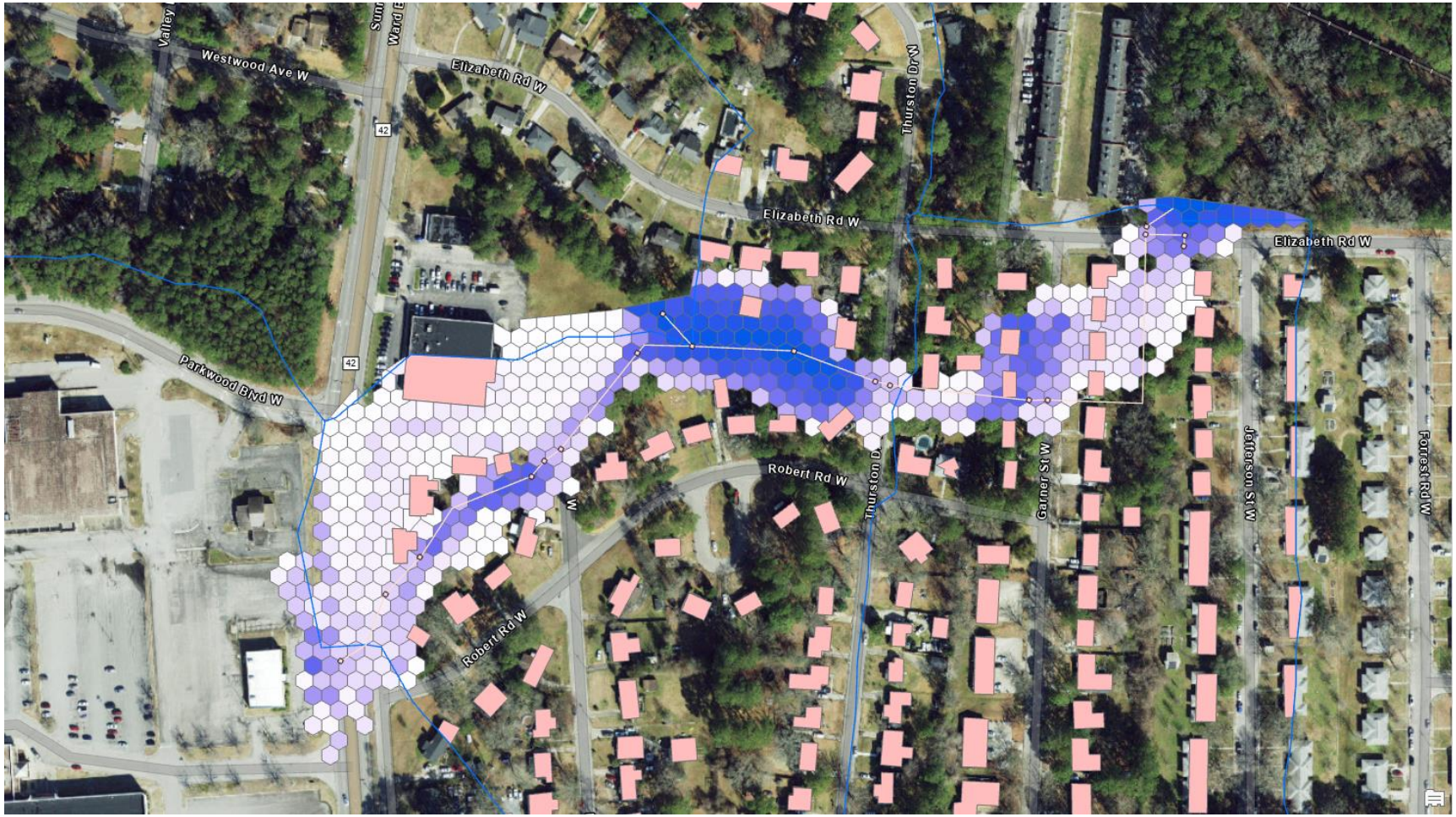
SW29000713 (129.251)
SW27000068 (133.146)
Node (depth, ft)

PRE-PROJECT 25-YR



POST-PROJECT 25-YR



2022 FEMA BRIC Grant Application
Hominy Swamp Stormwater Park

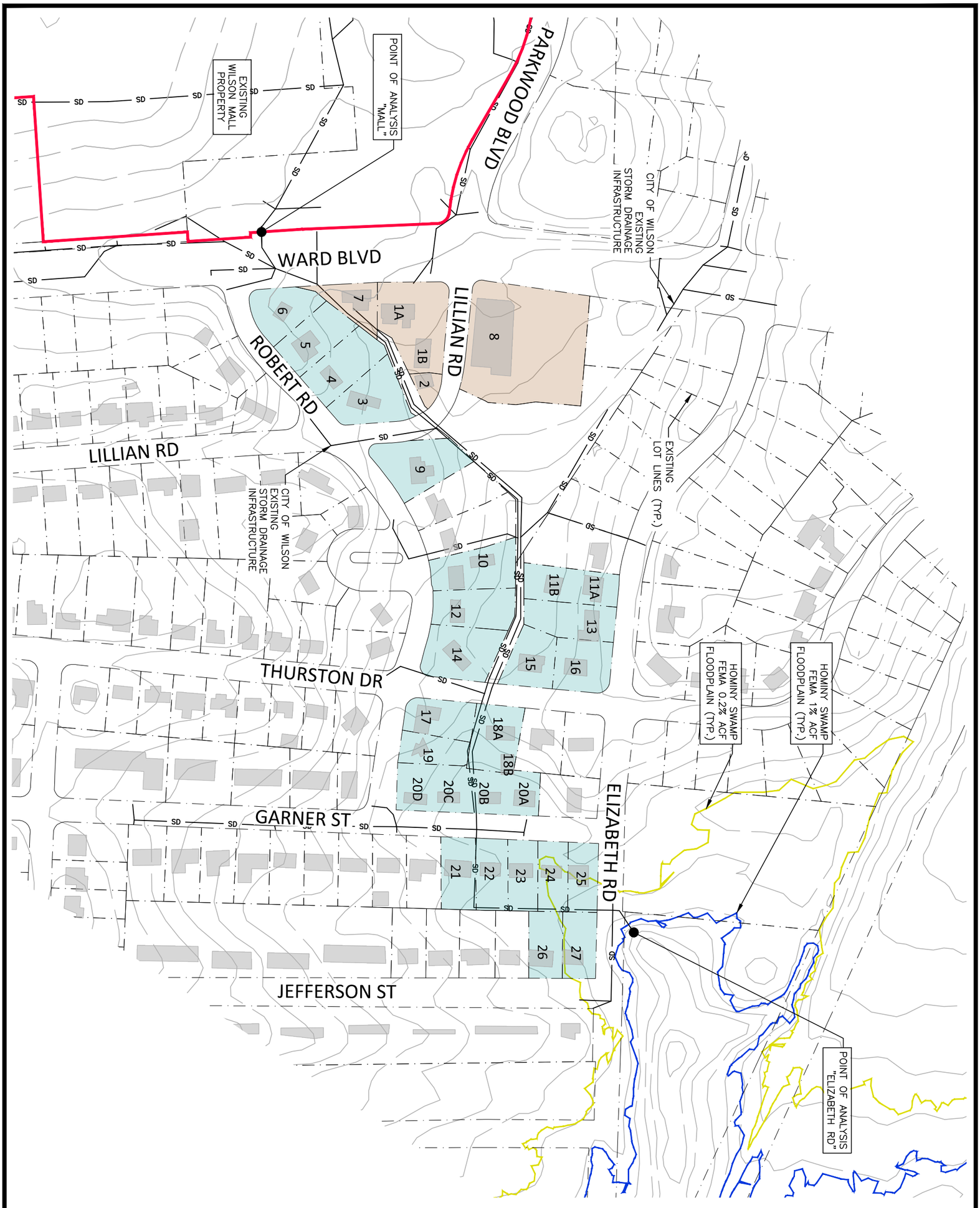
PRELIMINARY HYDRAULIC ANALYSIS RESULTS

PC SWMM Model Results

Property ID	Pre 1yr Flood Depth	Post-SCM 1yr Flood Depth	Pre 2yr Flood Depth	Post-SCM 2yr Flood Depth	Pre 5yr Flood Depth	Post-SCM 5yr Flood Depth	Pre 10yr Flood Depth	Post-SCM 10yr Flood Depth	Pre 25yr Flood Depth	Post-SCM 25yr Flood Depth
1A	-	-	0.02	-	0.02	-	0.03	0.01	0.04	0.022
1B	0.28	-	0.63	-	0.89	0.13	1.02	0.32	1.23	0.666
2	0.78	-	1.13	-	1.38	0.38	1.49	0.83	1.70	1.174
3	-	-	-	-	0.24	-	0.36	-	0.56	0.04
4	-	-	-	-	-	-	-	-	0.01	-
5	-	-	-	-	-	-	-	-	0.01	-
6	0.13	-	0.30	-	0.49	0.01	0.61	0.14	0.75	0.338
7	0.41	-	0.71	-	0.90	0.27	1.05	0.42	1.24	0.73
8	0.02	-	0.12	-	0.19	-	0.23	0.09	0.28	0.154
9	-	-	-	-	-	-	-	-	0.07	-
10	0.35	-	1.81	-	2.47	-	2.71	0.56	2.98	2.161
11A	-	-	-	-	0.51	-	0.76	-	1.03	0.201
11B	1.01	-	2.48	-	3.14	0.28	3.38	1.23	3.64	2.831
12	-	-	0.21	-	0.88	-	1.11	-	1.36	0.554
13	-	-	-	-	-	-	0.01	-	0.29	-
14	-	-	0.71	-	1.37	-	1.60	-	1.85	1.053
15	-	-	0.46	-	1.12	-	1.36	-	1.62	0.804
16	-	-	-	-	-	-	-	-	0.26	-
17	-	-	-	-	0.03	-	0.22	-	0.38	-
18A	-	-	0.02	-	0.30	-	0.50	-	0.69	0.144
18B	-	-	0.01	-	1.16	-	1.44	-	1.74	0.828
19	-	-	-	-	-	-	-	-	0.01	-
20A	-	-	1.38	-	2.55	-	2.82	-	3.09	2.237
20B	-	-	0.68	-	1.84	-	2.12	-	2.40	1.501
20C	-	-	0.05	-	1.22	-	1.51	-	1.80	0.882
20D	-	-	-	-	-	-	-	-	-	-
21	-	-	-	-	0.06	-	0.33	-	0.60	-
22	-	-	-	-	0.49	-	0.74	-	1.00	0.186
23	-	-	-	-	0.73	-	0.98	-	1.23	0.436
24	-	-	-	-	0.49	-	0.73	-	0.96	0.193
25	-	-	-	-	0.49	-	0.73	-	0.96	0.193
26	-	-	-	-	0.06	-	0.17	-	0.32	0.01
27	-	-	-	-	0.15	-	0.43	-	0.80	0.01

Maximum Depths =	Pre 1yr	Post 1yr	Pre 2yr	Post 2yr	Pre 5yr	Post 5yr	Pre 10yr	Post 10yr	Pre 25yr	Post 25yr
	1.01	0.00	2.48	0.00	3.14	0.38	3.38	1.23	3.64	2.83

APPENDIX E
Structure Inventory



0 100 200 400

GRAPHIC SCALE

1 inch = 200 ft.

N

PROJECT SITE

IMPACTED COMMERCIAL PROPERTIES

IMPACTED RESIDENTIAL PROPERTIES

M:\Projects\WIL\WIL21003\04-Production\Water Resources\Current Drawings\WIL21003x.dwg, 12/20/2022 8:19:37 PM, Rebecca Stubbs

McADAMS

The John R. McAdams Company, Inc.
One Glenwood Avenue
Suite 201
Raleigh, NC 27603

phone 919. 823. 4300
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

HOMINY SWAMP STORMWATER PARK

STRUCTURE INVENTORY KEY

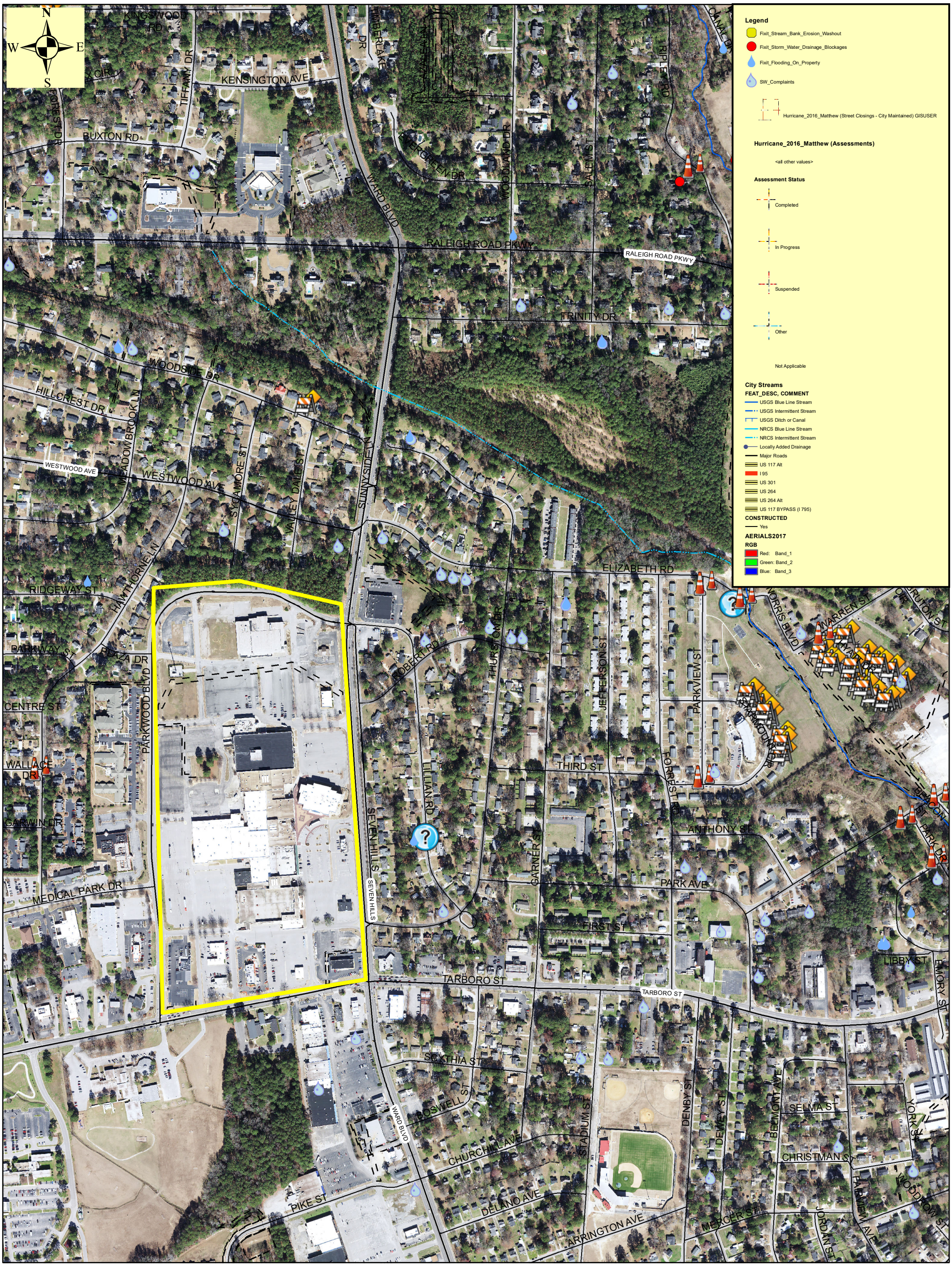
WILSON, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO.	WIL21002.05
FILENAME	WIL21003-E4
CHECKED BY	RAS
DRAWN BY	RAS
SCALE	1" = 200'
DATE	12. 20. 2022

STRUCTURE INVENTORY

	WILSON COUNTY GIS		NCFRIS				
Property ID	**PIN**	**Address**	**Building Value**	**Stories**	**Square Feet**	**Foundation**	**Occupancy Type**
1A	3712-51-9483	404 Seven Hills Annex Rd W, Wilson, NC 27893	$ 258,639.00	2	4,059	Slab on Grade	Retail Trade
1B	3712-51-9483	401 Seven Hills Annex Rd W, Wilson, NC 27893	$ 114,186.00	1	1,792	Slab on Grade	Retail Trade
2	3712-61-1465	407 Lillian Rd W, Wilson, NC 27893	$ 51,140.00	1	648	Slab on Grade	Personal and Repair Services
3	3712-61-1374	1222 Robert Rd W, Wilson, NC 27893	$ 80,855.00	1	1,107	Basement	Single Family Dwelling
4	3712-61-0299	1224 Robert Rd W, Wilson, NC 27893	$ 71,652.00	1	981	Crawl Space	Single Family Dwelling
5	3712-61-0233	1226 Robert Rd W, Wilson, NC 27893	$ 123,584.00	1	1,692	Basement	Single Family Dwelling
6	3712-61-0102	1228 Robert Rd W, Wilson, NC 27893	$ 73,990.00	2	1,013	Crawl Space	Single Family Dwelling
7	3712-51-9372	400 Seven Hills Annex Rd W, Wilson, NC 27893	$ 185,734.00	1	1,805	Slab on Grade	Business/Professonial/Technical Services
8	3712-61-0677	1700 Ward Blvd, Wilson NC, 27893	$ 2,598,242.00	1	19,760	Slab on Grade	Entertainment and Recreation
9	3712-61-3425	1112 Robert Rd W, Wilson, NC 27893	$ 98,969.00	1	1,355	Slab on Grade	Single Family Dwelling
10	3712-61-5546	1106 Robert Rd W, Wilson, NC 27893	$ 68,314.00	1	833	Basement	Single Family Dwelling
11A	3712-61-5777	1205 Elizabeth Rd W, Wilson NC 27893	$ 205,878.00	2	2,710	Basement	Single Family Dwelling
11B	3712-61-5777	1205 Elizabeth Rd W, Wilson NC 27893	$ 132,933.00	2	1,820	Crawl Space	Single Family Dwelling
12	3712-616526	1104 Robert Rd W, Wilson, NC 27893	$ 134,101.00	2	1,836	Crawl Space	Single Family Dwelling
13	3712-61-6747	1203 Elizabeth Rd W, Wilson NC 27893	$ 101,856.00	1	1,242	Basement	Single Family Dwelling
14	3712-61-7524	1100 Robert Rd W, Wilson, NC 27893	$ 111,386.00	1	1,525	Crawl Space	Single Family Dwelling
15	3712-61-7627	403 Thurston Dr W, Wilson, NC 27893	$ 107,023.00	1	1,305	Basement	Single Family Dwelling
16	3712-61-7749	1201 Elizabeth Rd W, Wilson NC 27893	$ 98,083.00	1	1,196	Basement	Single Family Dwelling
17	3712-61-8469	1024 Robert Rd W, Wilson, NC 27893	$ 239,206.00	2	3,275	Crawl Space	Single Family Dwelling
18A	3712-61-9600	402 Thurston Dr W, Wilson, NC 27893	$ 95,213.00	1	1,161	Basement	Single Family Dwelling
18B	3712-61-9600	402 Thurston Dr W, Wilson, NC 27893	$ 67,986.00	1	829	Basement	Single Family Dwelling
19	3712-61-9437	1022 Robert Rd W, Wilson, NC 27893	$ 82,004.00	1	1,165	Crawl Space	Single Family Dwelling
20A	3712-71-0516	425 Garner St W, Wilson, NC 27893	$ 154,626.00	2	2,117	Crawl Space	Single Family Dwelling
20B	3712-71-0516	423 Garner St W, Wilson, NC 27893	$ 115,768.00	2	1,585	Slab on Grade	Single Family Dwelling
20C	3712-71-0516	421 Garner St W, Wilson, NC 27893	$ 73,480.00	1	896	Basement	Single Family Dwelling
20D	3712-71-0516	419 Garner St W, Wilson, NC 27893	$ 111,386.00	2	1,525	Crawl Space	Single Family Dwelling
21	3712-71-1592	422 Garner St W, Wilson, NC 27893	$ 67,562.00	1	925	Crawl Space	Single Family Dwelling
22	3712-71-1599	424 Garner St W, Wilson, NC 27893	$ 74,866.00	1	1,025	Slab on Grade	Single Family Dwelling
23	3712-71-1696	426 Garner St W, Wilson, NC 27893	$ 80,344.00	1	1,100	Slab on Grade	Single Family Dwelling
24	3712-71-1792	428 Garner St W, Wilson, NC 27893	$ 74,866.00	1	1,025	Slab on Grade	Single Family Dwelling
25	3712-71-1798	430 Garner St W, Wilson, NC 27893	$ 74,866.00	1	1,025	Crawl Space	Single Family Dwelling
26	3712-71-3741	449 Jefferson St W, Wilson, NC 27893	$ 89,474.00	1	1,225	Slab on Grade	Single Family Dwelling
27	3712-71-3748	451 Jefferson St W, Wilson, NC 27893	$ 80,855.00	1	1,107	Crawl Space	Single Family Dwelling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KINGSWOOD RD
KENSINGTON AVE
TIFFANY DR
FOREST DR
BUXTON RD
TIMBERLAKE DR
WARD BLVD
EVERGREEN DR
WOODLAWN DR
RALEIGH ROAD PKWY
TRINITY DR
RIPLEY RD
CANAL DR
WOODSIDE DR
HILLCREST DR
MEADOWBROOK LN
WESTWOOD AVE
SYCAMORE ST
VALLEY DALE ST
SUNNYSIDE LN
HAWTHORNE LN
RIDGEWAY ST
ELIZABETH RD
PARKWAY ST
PLAZA DR
PARKWOOD BLVD
CENTRE ST
WALLACE DR
GARWIN DR
MEDICAL PARK DR
ROBERT RD
THURSTON DR
JEFFERSON ST
PARKVIEW ST
MORRIS BLVD
WARREN ST
MAYO DR
SYCAMORE DR
THIRD ST
FORREST RD
LILLIAN RD
SEVEN HILLS
GARNER ST
ANTHONY ST
PARK AVE
FIRST ST
BEACON PARK DR
LIBBY ST
EMORY ST
TARBORO ST
SCYTHIA ST
BOSWELL ST
STADIUM ST
DENBY ST
DEWEY ST
BELMONT AVE
SELMA ST
YORK ST
CHURCHILL AVE
CHRISTMAN ST
PALMVIEW AVE
WOODSON ST
DELANO AVE
ARRINGTON AVE
MERCER ST
JORDAN ST
PIKE ST
Legend
Fixit_Stream_Bank_Erosion_Washout
Fixit_Storm_Water_Drainage_Blockages
Fixit_Flooding_On_Property
SW_Complaints
Hurricane_2016_Matthew (Street Closings - City Maintained) GISUSER
Hurricane_2016_Matthew (Assessments)
<all other values>
Assessment Status
Completed
In Progress
Suspended
Other
Not Applicable
City Streams
FEAT_DESC, COMMENT
USGS Blue Line Stream
USGS Intermittent Stream
USGS Ditch or Canal
NRCS Blue Line Stream
NRCS Intermittent Stream
Locally Added Drainage
Major Roads
US 117 Alt
I 95
US 301
US 264
US 264 Alt
US 117 BYPASS (I 795)
CONSTRUCTED
Yes
AERIALS2017
RGB
Red: Band_1
Green: Band_2
Blue: Band_3

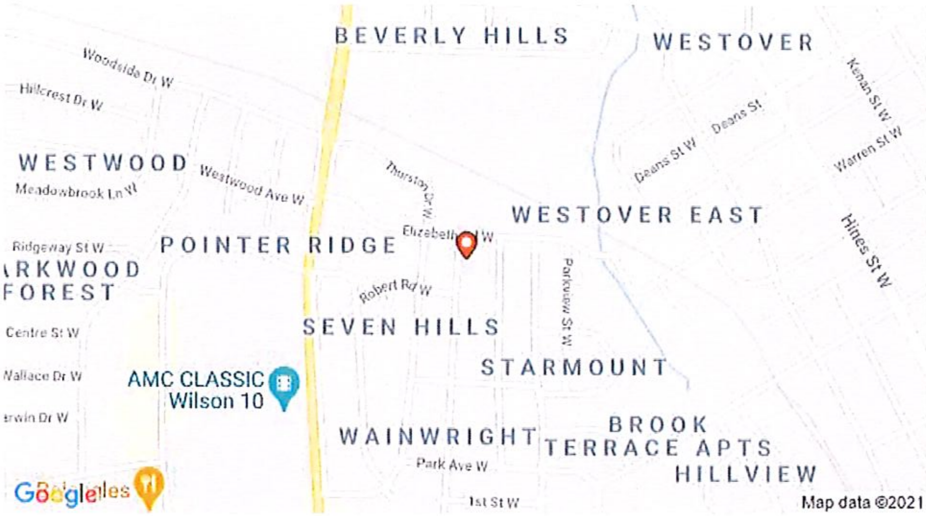
Figure 1: Image of flooding at a bridge crossing of Hominy Swamp, downstream of the proposed project area.

fix-it WILSON

October 8, 2021, 10:08 am

Flooding on Property - #4614607

WATER - WATER DISTRIBUTION - Aaron Bailey



Details

STATUS - Completed
PRIORITY - None
SUBMITTED BY - [Verified Official] Carrie Parker
SUBMITTED THROUGH - gov.publicstuff.com
FOLLOWERS - cboyette@wilsonnc.org, lwilson@wilsonnc.org, rcwilson@wilsonnc.org

Dates

DATE SUBMITTED - August 1, 2018, 3:49 pm
Completed: 2018-08-08T19:23:51.743Z
DUE DATE - N/A

Contact

NAME - N/A
EMAIL - N/A
PHONE - N/A

LOCATION - 426 Garner Street West, Wilson, NC, USA
LOCATION INFORMATION -
FLOODING ON PROPERTY ISSUES - Clogged Ditch/Drain
CONTACT NAME - Antoinette
CONTACT PHONE NUMBER - 252-315-8603
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CURRENTLY ASSIGNED TO - Aaron Bailey in Water - Water Distribution
DESCRIPTION - Customer said the storm drains in front of her house don't drain very well and every time we have a heavy rain they cause her front yard to flood.

Workflow

COMPLETE - August 8, 2018, 3:23 pm
STEP NAME - Ticket Assignment
ASSIGNEE - Aaron Bailey
DEPARTMENT - Water - Water Distribution

DESCRIPTION - Request will be assigned to Aaron Bailey when submitted. Aaron will be responsible for completing and closing the ticket.

Comments

There are no comments on this request yet.

Change Log

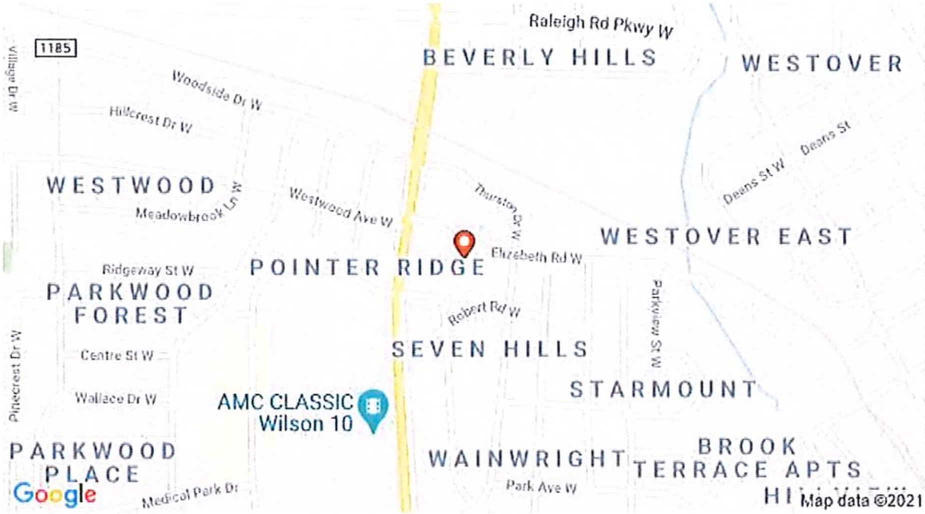
Aug 1, 2018 3:49pm	**Request was submitted**
Aug 2, 2018 7:14am	**Status:** *'Submitted'* updated to *'Received'* **Responded At:** *'Aug 2nd, 2018 07:14am'* set
Aug 8, 2018 3:23pm	**Ticket Assignment completed at:** *'Aug 8th, 2018 03:23pm'* set **Ticket Assignment completed by:** *'Brooks Bunn'* set **Completed At:** *'Aug 8th, 2018 03:23pm'* set **Status:** *'Received'* updated to *'Completed'*

fix it WILSON

October 8, 2021, 10:05 am

Drainage Issues - #4355844

WATER - WATER DISTRIBUTION - Aaron Bailey



Details

STATUS - Completed
PRIORITY - None
SUBMITTED BY - [Verified Official] Tierra Melvin
SUBMITTED THROUGH - gov.publicstuff.com
FOLLOWERS - cboyette@wilsonnc.org, lwilson@wilsonnc.org, rcwilson@wilsonnc.org

Dates

DATE SUBMITTED - June 15, 2018, 8:30 am
Completed: 2018-07-20T19:09:00.982Z
DUE DATE - N/A

Contact

NAME - N/A
EMAIL - N/A
PHONE - N/A

LOCATION - 1209 Elizabeth Road West, Wilson, NC, USA
LOCATION INFORMATION -
DRAINAGE ISSUES - Storm Drain Clogged
CONTACT NAME - Warren Murray
CONTACT PHONE NUMBER - (252)237-3861
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CURRENTLY ASSIGNED TO - Aaron Bailey in Water - Water Distribution
DESCRIPTION - Water not draining properly in easement behind this home; flooding onto property when it rains

Workflow

COMPLETE - July 20, 2018, 3:09 pm
STEP NAME - Follow through and completion
ASSIGNEE - Aaron Bailey
DEPARTMENT - Water - Water Distribution

DESCRIPTION - If additional work is needed, dispatch will assign ticket to appropriate individual in the water dept. for follow through and completion.

Comments

Jul 6, 2018 9:56am	Casey Boyette: customer called back for the 4th time; transferred to Lynn

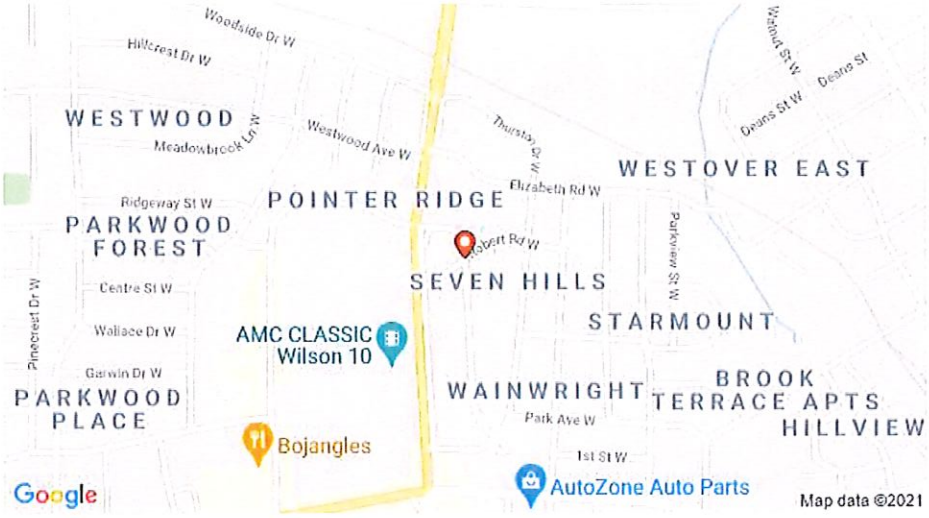
Change Log

Jun 15, 2018 8:30am	**Request was submitted**
Jun 19, 2018 7:15am	**Expected Responded At**: *'Jun 18th, 2018 12:00am'* updated to *'Jul 18th, 2018 12:00am'*
Jun 19, 2018 11:11am	**Description**: *'Water not draining propertly'* updated to *'Water not draining properly in easement behind this home; flooding onto property when it rains'*
Jul 11, 2018 11:17am	**Status**: *'Submitted'* updated to *'Received'* **Responded At**: *'Jul 11th, 2018 11:17am'* set
Jul 20, 2018 3:09pm	**Follow through and completion completed at**: *'Jul 20th, 2018 03:09pm'* set **Follow through and completion completed by**: *'Brooks Bunn'* set **Completed At**: *'Jul 20th, 2018 03:09pm'* set **Status**: *'Received'* updated to *'Completed'*

October 8, 2021, 10:06 am

Drainage Issues - #10800550

PUBLIC WORKS - STORM WATER MAINTENANCE - Tyler Jenkins



LOCATION - Lillian Road West & Robert Road West, Wilson, NC, USA
LOCATION INFORMATION -
DRAINAGE ISSUES - Storm Drain Clogged
CONTACT NAME - Rob
CONTACT PHONE NUMBER - 2453428
-
INTERNAL STORM WATER USE ONLY -
DEPTH OF COVER -
SIZE OF PIPE -
PIPE TYPE -
CATCH BASIN FRAME/GRATE -
SCREENINGS (TONS) -
STONE (TONS) -
SAND (TONS) -
MATTING (TYPE AND LENGTH) -
STRAW (BALES) -
WOOD STAKES/YARD STAKES (TYPE AND AMOUNT) -
SEED (LBS) -
CONCRETE (YARDS OR BAGS) -
BRICK/BLOCK (AMOUNT) -
DEPTH OF INFRASTRUCTURE -
COLLAR FORM MATERIAL -
LENGTH OF DITCH CLEANED -
MATERIAL REMOVED -
SINK HOLES FIXED -
-
TRUCKS USED - W409, W435
PERSONNEL USED - E.May D.Petway C.Darden
TIME SPENT (HH:MM) - 1
SUMMARY - Catch basin sucked out and water is flowing.
CURRENTLY ASSIGNED TO - Tyler Jenkins in Public Works - Storm Water Maintenance
DESCRIPTION - clogged drains

Workflow

COMPLETE - September 13, 2021, 4:20 pm
STEP NAME - Original request will be sent to UCC Dispatch
ASSIGNEE - N/A
DEPARTMENT - UCCDS - Storm Water
DESCRIPTION - Original request will come into UCC Dispatch. Additional information will be gathered if needed, and a storm water crew will be dispatched to handle the issue. Dispatch will

Details

STATUS - Completed
PRIORITY - None
SUBMITTED BY - [Verified Official] Ashley Atkinson
SUBMITTED THROUGH - gov.publicstuff.com
FOLLOWERS - ecrockett@wilsonnc.org, cparker@wilsonnc.org, tcox@wilsonnc.org, csutton@wilsonnc.org, tmelvin@wilsonnc.org, cdavis@wilsonnc.org, rgarrison@wilsonnc.org, aatkinson@wilsonnc.org, dpitt@wilsonnc.org, obriceno@wilsonnc.org, hvargas@wilsonnc.org

Dates

DATE SUBMITTED - September 13, 2021, 3:40 pm
Completed: 2021-09-17T17:39:28.819Z
DUE DATE - September 14, 2021, 12:00 am

Contact

NAME - N/A
EMAIL - N/A
PHONE - N/A

close the ticket when work is completed.

COMPLETE - September 17, 2021, 1:39 pm
STEP NAME - Follow through and completion
ASSIGNEE - Tyler Jenkins
DEPARTMENT - Public Works - Storm Water Maintenance
DESCRIPTION - If additional work is needed, dispatch will assign ticket to appropriate individual in the storm water dept. for follow through and completion.

Comments

There are no comments on this request yet.

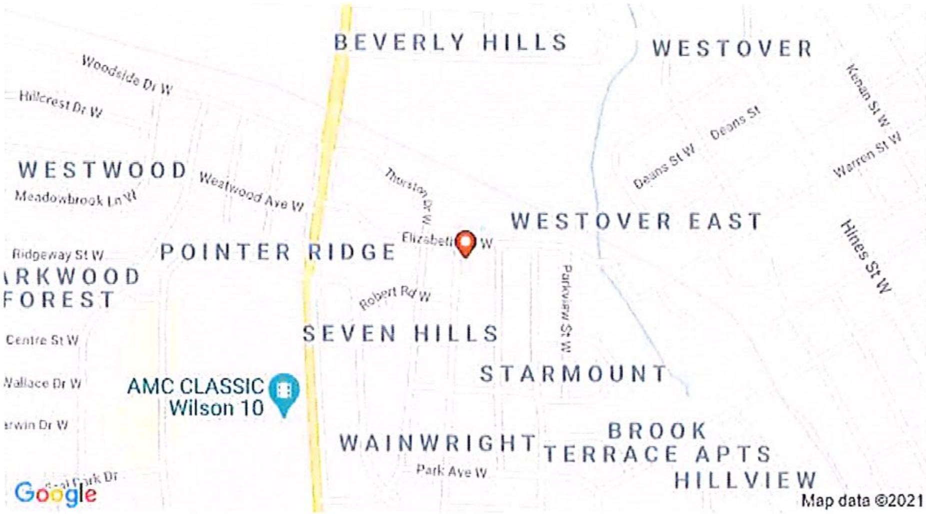
Change Log

Sep 13, 2021 3:40pm	**Request was submitted** Follow through and completion was created
Sep 13, 2021 4:20pm	**Original request will be sent to UCC Dispatch completed at**: *'Sep 13th, 2021 04:20pm'* set **Original request will be sent to UCC Dispatch completed by**: *'Carrie Parker'* set **Workflow Step**: *'Original request will be sent to UCC Dispatch'* updated to *'Follow through and completion'*
Sep 14, 2021 7:10am	**Status**: *'Submitted'* updated to *'Received'* **Responded At**: *'Sep 14th, 2021 07:10am'* set
Sep 17, 2021 1:39pm	**Summary**: *'Catch basin sucked out and water is flowing.'* set **Time Spent (hh:mm)**: *'1'* set **Personnel Used**: *'E.May D.Petway C.Darden'* set
Sep 17, 2021 1:39pm	**Follow through and completion completed at**: *'Sep 17th, 2021 01:39pm'* set **Follow through and completion completed by**: *'Eric May'* set **Completed At**: *'Sep 17th, 2021 01:39pm'* set **Status**: *'Received'* updated to *'Completed'*

October 8, 2021, 10:07 am

Drainage Issues - #2430259

WATER - WATER DISTRIBUTION - Aaron Bailey



LOCATION - 428 Garner St W, Wilson, NC, United States
LOCATION INFORMATION -
DRAINAGE ISSUES - Storm Drain Clogged
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CURRENTLY ASSIGNED TO - Aaron Bailey in Water - Water Distribution
DESCRIPTION - High standing water in street in front of house. Thinks storm drain is clogged.

Details

STATUS - Completed
PRIORITY - None
SUBMITTED BY - [Verified Official] Carrie Parker
SUBMITTED THROUGH - gov.publicstuff.com
FOLLOWERS - cboyette@wilsonnc.org, lwilson@wilsonnc.org, rcwilson@wilsonnc.org

Dates

DATE SUBMITTED - March 14, 2017, 4:25 pm
Completed: 2017-03-16T13:35:25.224Z
DUE DATE - March 21, 2017, 12:00 am

Contact

NAME - N/A
EMAIL - N/A
PHONE - N/A

Workflow

COMPLETE - March 14, 2017, 4:27 pm
STEP NAME - Original request will be sent to UCC Dispatch
ASSIGNEE - N/A
DEPARTMENT - UCCDS - Water/Sewer
DESCRIPTION - Original request will come into UCC Dispatch. Additional information will be gathered if needed, and a water crew will be dispatched to handle the issue. Dispatch will close

the ticket when work is completed.

COMPLETE - March 16, 2017, 9:35 am
STEP NAME - Follow through and completion
ASSIGNEE - Aaron Bailey
DEPARTMENT - Water - Water Distribution
DESCRIPTION - If additional work is needed, dispatch will assign ticket to appropriate individual in the water dept. for follow through and completion.

Comments

There are no comments on this request yet.

Change Log

Mar 14, 2017 4:25pm	**Request was submitted** Follow through and completion was created
Mar 14, 2017 4:27pm	**Original request will be sent to UCC Dispatch completed at**: *'Mar 14th, 2017 04:27pm'* set **Original request will be sent to UCC Dispatch completed by**: *'Carrie Parker'* set **Workflow Step**: *'Original request will be sent to UCC Dispatch'* updated to *'Follow through and completion'*
Mar 14, 2017 4:27pm	**Follow through and completion assignee**: *'Aaron Bailey'* set
Mar 16, 2017 9:35am	**Follow through and completion completed at**: *'Mar 16th, 2017 09:35am'* set **Follow through and completion completed by**: *'Aaron Bailey'* set **Completed At**: *'Mar 16th, 2017 09:35am'* set **Status**: *'Submitted'* updated to *'Completed'* **Responded At**: *'Mar 16th, 2017 09:35am'* set

APPENDIX F
Damage Estimates

Table 4. Homeowner Interviews and Expert Opinion Estimates, Freshwater and Saltwater Depth-Damage Relationships and CSVR for Residential Contents

Flood Depth (ft)	Percent Damaged											
	One-Story				Two-Story				Mobile Home			
	Freshwater		Saltwater		Freshwater		Saltwater		Freshwater		Saltwater	
	Short	Long	Short	Long	Short	Long	Short	Long	Short	Long	Short	Long
-1.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
-0.5	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
0.0	9.1	34.9	9.1	34.9	8.4	21.6	8.4	21.6	0.1	0.1	0.1	0.1
0.5	22.6	46.7	22.6	46.7	16.8	25.2	16.8	25.2	15.0	15.0	15.0	15.0
1.0	29.3	48.3	29.3	48.3	24.2	31.2	24.2	31.2	30.1	30.1	30.1	30.1
1.5	34.8	50.2	34.8	50.2	28.5	35.2	28.5	35.2	45.6	45.6	45.6	45.6
2.0	45.9	56.7	45.9	56.7	35.1	38.4	35.1	38.4	58.8	58.8	58.8	58.8
3.0	58.5	67.4	58.5	67.4	44.3	46.3	44.3	46.3	69.2	69.2	69.2	69.2
4.0	69.3	76.2	69.3	76.2	50.0	51.4	50.0	51.4	78.3	78.3	78.3	78.3
5.0	74.0	80.8	74.0	80.8	55.3	56.7	55.3	56.7	82.4	82.4	82.4	82.4
6.0	81.2	88.0	81.2	88.0	60.5	61.6	60.5	61.6	84.3	84.3	84.3	84.3
7.0	82.6	88.2	82.6	88.2	61.6	62.7	61.6	62.7	84.4	84.4	84.4	84.4
8.0	83.5	88.9	83.5	88.9	62.3	63.4	62.3	63.4	84.4	84.4	84.4	84.4
9.0	83.8	89.0	83.8	89.0	68.2	69.3	68.2	69.3	84.4	84.4	84.4	84.4
10.0	83.8	89.0	83.8	89.0	68.2	69.3	68.2	69.3	84.4	84.4	84.4	84.4
11.0	83.8	89.0	83.8	89.0	72.2	73.2	72.2	73.2	84.4	84.4	84.4	84.4
12.0	83.8	89.0	83.8	89.0	74.6	75.2	74.6	75.2	84.4	84.4	84.4	84.4
13.0	83.8	89.0	83.8	89.0	76.4	77.0	76.4	77.0	84.4	84.4	84.4	84.4
14.0	83.8	89.0	83.8	89.0	77.9	78.2	77.9	78.2	84.4	84.4	84.4	84.4
15.0	83.8	89.0	83.8	89.0	78.6	78.4	78.6	78.4	84.4	84.4	84.4	84.4
CSVR1	0.71				0.43				1.39			
CSVR2	0.69				0.67				1.12			
CSVR3	0.59				0.56				1.25			

Note: CSVR1 – based on typical structure and content values as determined by using expert opinion method, and these values were used to develop the depth-damage relationships.
CSVR2 – based on average structure and content values from homeowner and commercial operator interviews.
CSVR3 – based on homeowner and commercial operator data using risk-based analysis.

Source: G.E.C., Inc.

5. Commercial Operator Interviews and Expert Opinion Estimates, Freshwater and Saltwater Depth-Damage Relationships and CSVR for Non-Residential Contents

Flood	Percent Damaged															
	Eating and Recreation		Groceries and Gas Stations		Professional Businesses		Public and Semi-Public		Repairs and Home Use		Retail		Warehouse and Contractor Services		Multi-Family Residences	
Depth (ft)	Short	Long	Short	Long	Short	Long	Short	Long	Short	Long	Short	Long	Short	Long	Short	Long
-1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-0.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.0	0.00	0.00	0.12	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.5	0.31	0.16	0.31	0.87	0.11	0.26	0.01	0.09	0.17	0.33	0.55	0.50	0.08	0.16	0.15	0.10
1.0	0.34	0.57	0.42	0.88	0.15	0.31	0.02	0.12	0.24	0.34	0.66	0.66	0.12	0.19	0.20	0.30
1.5	0.60	0.73	0.74	0.88	0.19	0.35	0.02	0.14	0.33	0.34	0.77	0.66	0.16	0.19	0.22	0.30
2.0	0.65	0.96	0.92	0.90	0.23	0.38	0.02	0.17	0.34	0.64	0.88	0.74	0.19	0.27	0.28	0.30
3.0	0.84	0.98	1.00	1.00	0.68	0.68	0.90	0.90	0.64	0.66	0.90	0.80	0.27	0.34	0.45	0.30
4.0	0.91	1.00	1.00	1.00	0.87	0.87	1.00	1.00	0.66	0.68	0.92	0.85	0.34	0.42	0.49	0.60
5.0	0.93	1.00	1.00	1.00	0.87	0.87	1.00	1.00	0.68	0.73	0.94	0.91	0.42	0.49	0.49	0.80
6.0	0.93	1.00	1.00	1.00	0.99	0.99	1.00	1.00	0.73	0.76	1.00	0.91	0.49	0.56	0.49	0.80
7.0	0.96	1.00	1.00	1.00	0.99	0.99	1.00	1.00	0.76	0.76	1.00	0.91	0.56	0.64	0.49	0.80
8.0	0.96	1.00	1.00	1.00	0.99	0.99	1.00	1.00	0.76	0.76	1.00	0.91	0.64	0.71	0.49	1.00
9.0	0.96	1.00	1.00	1.00	0.99	0.99	1.00	1.00	0.76	0.76	1.00	0.93	0.71	0.75	0.49	1.00
10.0	0.96	1.00	1.00	1.00	0.99	0.99	1.00	1.00	0.76	0.76	1.00	0.93	0.75	0.75	0.64	1.00
11.0	0.96	1.00	1.00	1.00	0.99	0.99	1.00	1.00	0.76	0.76	1.00	0.93	0.75	0.75	0.71	1.00
12.0	0.96	1.00	1.00	1.00	0.99	0.99	1.00	1.00	0.76	0.76	1.00	0.93	0.75	0.75	0.93	1.00
13.0	0.96	1.00	1.00	1.00	0.99	0.99	1.00	1.00	0.76	0.76	1.00	0.93	0.75	0.75	0.98	1.00
14.0	0.96	1.00	1.00	1.00	0.99	0.99	1.00	1.00	0.76	0.76	1.00	0.93	0.75	0.75	0.98	1.00
15.0	0.96	1.00	1.00	1.00	0.99	0.99	1.00	1.00	0.76	0.76	1.00	0.93	0.75	0.75	0.98	1.00
CSVR1	0.83		3.97		0.44		0.79		0.74		3.67		2.56		0.27	
CSVR2	0.70		1.58		0.43		0.14		1.22		1.29		0.85		0.14	
CSVR3	0.55		1.14		0.45		0.10		1.08		1.26		0.62		0.12	

Note: CSVR1 – based on typical structure and content values as determined by using expert opinion method, and these values were used to develop the depth-damage relationships.
CSVR2 – based on average structure and content values from homeowner and commercial operator interviews.
CSVR3 – based on homeowner and commercial operator data using risk-based analysis.

Source: G.E.C., Inc.

Table 6. Depth-Damage Relationships for Vehicles

Vehicle Type	Market Value	Flood Depth (feet above road surface)									
		0.5		1.0		1.5		2.0		3.0	
Sub-Compact	$12,000	0.0	0.0	9.0	14.0	20.0	27.0	35.0	50.0	100.0	100.0
Compact	$16,000	0.0	0.0	5.0	9.0	15.0	19.0	20.0	25.0	100.0	100.0
Mid-Size	$22,000	0.0	0.0	4.0	8.0	13.0	17.0	18.0	21.0	100.0	100.0
Large	$31,000	0.0	0.0	3.0	5.0	11.0	16.0	17.0	19.0	100.0	100.0
Pick-Up Trucks/SUV	$26,000	0.0	0.0	2.0	4.0	10.0	15.0	15.0	18.0	100.0	100.0

Source: G.E.C., Inc.

2022 FEMA BRIC Grant Application
Hominy Swamp Stormwater Park

PRE-PROJECT DAMAGE ESTIMATES

		NCFRIS			USACE DDF		USACE DDF		
Property ID	**Occupancy Type**	**Stories**	**Foundation**	**Building Value**	**CSVR1**	**FFE**	**1yr Structure Flooding Depth**	**1yr % Damaged**	**1yr Calculated Damages**
1A	Retail Trade	2	Slab on Grade	$ 258,639.00	3.67	0.5	-5.50	0.0%	$ -
1B	Retail Trade	1	Slab on Grade	$ 114,186.00	3.67	0.5	-0.22	0.0%	$ -
2	Personal and Repair Services	1	Slab on Grade	$ 51,140.00	0.74	0.5	0.28	0.0%	$ -
3	Single Family Dwelling	1	Basement	$ 80,855.00	0.71	0.0	-5.00	0.0%	$ -
4	Single Family Dwelling	1	Crawl Space	$ 71,652.00	0.71	2.5	-7.50	0.0%	$ -
5	Single Family Dwelling	1	Basement	$ 123,584.00	0.71	0.0	-5.00	0.0%	$ -
6	Single Family Dwelling	2	Crawl Space	$ 73,990.00	0.43	2.5	-2.37	0.0%	$ -
7	Business/Professonial/Technical Services	1	Slab on Grade	$ 185,734.00	0.44	0.5	-0.09	0.0%	$ -
8	Entertainment and Recreation	1	Slab on Grade	$ 2,598,242.00	0.83	0.5	-0.48	0.0%	$ -
9	Single Family Dwelling	1	Slab on Grade	$ 98,969.00	0.71	0.5	-5.50	0.0%	$ -
10	Single Family Dwelling	1	Basement	$ 68,314.00	0.71	0.0	0.35	9.1%	$ 10,630.34
11A	Single Family Dwelling	2	Basement	$ 205,878.00	0.43	0.0	-5.00	0.0%	$ -
11B	Single Family Dwelling	2	Crawl Space	$ 132,933.00	0.43	2.5	-1.49	0.0%	$ -
12	Single Family Dwelling	2	Crawl Space	$ 134,101.00	0.43	2.5	-7.50	0.0%	$ -
13	Single Family Dwelling	1	Basement	$ 101,856.00	0.71	0.0	-5.00	0.0%	$ -
14	Single Family Dwelling	1	Crawl Space	$ 111,386.00	0.71	2.5	-7.50	0.0%	$ -
15	Single Family Dwelling	1	Basement	$ 107,023.00	0.71	0.0	-5.00	0.0%	$ -
16	Single Family Dwelling	1	Basement	$ 98,083.00	0.71	0.0	-5.00	0.0%	$ -
17	Single Family Dwelling	2	Crawl Space	$ 239,206.00	0.43	2.5	-7.50	0.0%	$ -
18A	Single Family Dwelling	1	Basement	$ 95,213.00	0.71	0.0	-5.00	0.0%	$ -
18B	Single Family Dwelling	1	Basement	$ 67,986.00	0.71	0.0	-5.00	0.0%	$ -
19	Single Family Dwelling	1	Crawl Space	$ 82,004.00	0.71	2.5	-7.50	0.0%	$ -
20A	Single Family Dwelling	2	Crawl Space	$ 154,626.00	0.43	2.5	-7.50	0.0%	$ -
20B	Single Family Dwelling	2	Slab on Grade	$ 115,768.00	0.43	0.5	-5.50	0.0%	$ -
20C	Single Family Dwelling	1	Basement	$ 73,480.00	0.71	0.0	-5.00	0.0%	$ -
20D	Single Family Dwelling	2	Crawl Space	$ 111,386.00	0.43	2.5	-7.50	0.0%	$ -
21	Single Family Dwelling	1	Crawl Space	$ 67,562.00	0.71	2.5	-7.50	0.0%	$ -
22	Single Family Dwelling	1	Slab on Grade	$ 74,866.00	0.71	0.5	-5.50	0.0%	$ -
23	Single Family Dwelling	1	Slab on Grade	$ 80,344.00	0.71	0.5	-5.50	0.0%	$ -
24	Single Family Dwelling	1	Slab on Grade	$ 74,866.00	0.71	0.5	-5.50	0.0%	$ -
25	Single Family Dwelling	1	Crawl Space	$ 74,866.00	0.71	2.5	-7.50	0.0%	$ -
26	Single Family Dwelling	1	Slab on Grade	$ 89,474.00	0.71	0.5	-5.50	0.0%	$ -
27	Single Family Dwelling	1	Crawl Space	$ 80,855.00	0.71	2.5	-7.50	0.0%	$ -
								TOTAL =	$ 10,630.34

FFE Assumptions By Foundation Type

Basement =	0.0	ft above ground
Slab on Grade =	0.5	ft above ground
Crawl Space =	2.5	ft above ground

POST-PROJECT DAMAGE ESTIMATES

	NCFRIS				USACE DDF		USACE DDF		
Property ID	**Occupancy Type**	**Stories**	**Foundation**	**Building Value**	**CSVR1**	**FFE**	**1yr Structure Flooding Depth**	**1yr % Damaged**	**1yr Calculated Damages**
1A	Retail Trade	2	Slab on Grade	$ 258,639.00	3.67	0.5	-5.50	0.0%	$ -
1B	Retail Trade	1	Slab on Grade	$ 114,186.00	3.67	0.5	-5.50	0.0%	$ -
2	Personal and Repair Services	1	Slab on Grade	$ 51,140.00	0.74	0.5	-5.50	0.0%	$ -
3	Single Family Dwelling	1	Basement	$ 80,855.00	0.71	0.0	-5.00	0.0%	$ -
4	Single Family Dwelling	1	Crawl Space	$ 71,652.00	0.71	2.5	-7.50	0.0%	$ -
5	Single Family Dwelling	1	Basement	$ 123,584.00	0.71	0.0	-5.00	0.0%	$ -
6	Single Family Dwelling	2	Crawl Space	$ 73,990.00	0.43	2.5	-7.50	0.0%	$ -
7	Business/Professonial/Technical Services	1	Slab on Grade	$ 185,734.00	0.44	0.5	-5.50	0.0%	$ -
8	Entertainment and Recreation	1	Slab on Grade	$ 2,598,242.00	0.83	0.5	-5.50	0.0%	$ -
9	Single Family Dwelling	1	Slab on Grade	$ 98,969.00	0.71	0.5	-5.50	0.0%	$ -
10	Single Family Dwelling	1	Basement	$ 68,314.00	0.71	0.0	-5.00	0.0%	$ -
11A	Single Family Dwelling	2	Basement	$ 205,878.00	0.43	0.0	-5.00	0.0%	$ -
11B	Single Family Dwelling	2	Crawl Space	$ 132,933.00	0.43	2.5	-7.50	0.0%	$ -
12	Single Family Dwelling	2	Crawl Space	$ 134,101.00	0.43	2.5	-7.50	0.0%	$ -
13	Single Family Dwelling	1	Basement	$ 101,856.00	0.71	0.0	-5.00	0.0%	$ -
14	Single Family Dwelling	1	Crawl Space	$ 111,386.00	0.71	2.5	-7.50	0.0%	$ -
15	Single Family Dwelling	1	Basement	$ 107,023.00	0.71	0.0	-5.00	0.0%	$ -
16	Single Family Dwelling	1	Basement	$ 98,083.00	0.71	0.0	-5.00	0.0%	$ -
17	Single Family Dwelling	2	Crawl Space	$ 239,206.00	0.43	2.5	-7.50	0.0%	$ -
18A	Single Family Dwelling	1	Basement	$ 95,213.00	0.71	0.0	-5.00	0.0%	$ -
18B	Single Family Dwelling	1	Basement	$ 67,986.00	0.71	0.0	-5.00	0.0%	$ -
19	Single Family Dwelling	1	Crawl Space	$ 82,004.00	0.71	2.5	-7.50	0.0%	$ -
20A	Single Family Dwelling	2	Crawl Space	$ 154,626.00	0.43	2.5	-7.50	0.0%	$ -
20B	Single Family Dwelling	2	Slab on Grade	$ 115,768.00	0.43	0.5	-5.50	0.0%	$ -
20C	Single Family Dwelling	1	Basement	$ 73,480.00	0.71	0.0	-5.00	0.0%	$ -
20D	Single Family Dwelling	2	Crawl Space	$ 111,386.00	0.43	2.5	-7.50	0.0%	$ -
21	Single Family Dwelling	1	Crawl Space	$ 67,562.00	0.71	2.5	-7.50	0.0%	$ -
22	Single Family Dwelling	1	Slab on Grade	$ 74,866.00	0.71	0.5	-5.50	0.0%	$ -
23	Single Family Dwelling	1	Slab on Grade	$ 80,344.00	0.71	0.5	-5.50	0.0%	$ -
24	Single Family Dwelling	1	Slab on Grade	$ 74,866.00	0.71	0.5	-5.50	0.0%	$ -
25	Single Family Dwelling	1	Crawl Space	$ 74,866.00	0.71	2.5	-7.50	0.0%	$ -
26	Single Family Dwelling	1	Slab on Grade	$ 89,474.00	0.71	0.5	-5.50	0.0%	$ -
27	Single Family Dwelling	1	Crawl Space	$ 80,855.00	0.71	2.5	-7.50	0.0%	$ -
								TOTAL =	$ -

FFE Assumptions By Foundation Type

Basement =	0.0	ft above ground
Slab on Grade =	0.5	ft above ground
Crawl Space =	2.5	ft above ground

2022 FEMA BRIC Grant Application
Hominy Swamp Stormwater Park

PRE-PROJECT DAMAGE ESTIMATES

		NCFRIS			USACE DDF		USACE DDF		
Property ID	**Occupancy Type**	**Stories**	**Foundation**	**Building Value**	**CSVR1**	**FFE**	**2yr Structure Flooding Depth**	**2yr % Damaged**	**2yr Calculated Damages**
1A	Retail Trade	2	Slab on Grade	$ 258,639.00	3.67	0.5	-0.48	0.0%	$ -
1B	Retail Trade	1	Slab on Grade	$ 114,186.00	3.67	0.5	0.13	0.0%	$ -
2	Personal and Repair Services	1	Slab on Grade	$ 51,140.00	0.74	0.5	0.63	17.0%	$ 15,127.21
3	Single Family Dwelling	1	Basement	$ 80,855.00	0.71	0.0	-5.00	0.0%	$ -
4	Single Family Dwelling	1	Crawl Space	$ 71,652.00	0.71	2.5	-7.50	0.0%	$ -
5	Single Family Dwelling	1	Basement	$ 123,584.00	0.71	0.0	-5.00	0.0%	$ -
6	Single Family Dwelling	2	Crawl Space	$ 73,990.00	0.43	2.5	-2.20	0.0%	$ -
7	Business/Professonial/Technical Services	1	Slab on Grade	$ 185,734.00	0.44	0.5	0.21	0.0%	$ -
8	Entertainment and Recreation	1	Slab on Grade	$ 2,598,242.00	0.83	0.5	-0.38	0.0%	$ -
9	Single Family Dwelling	1	Slab on Grade	$ 98,969.00	0.71	0.5	-5.50	0.0%	$ -
10	Single Family Dwelling	1	Basement	$ 68,314.00	0.71	0.0	1.81	34.8%	$ 40,652.30
11A	Single Family Dwelling	2	Basement	$ 205,878.00	0.43	0.0	-5.00	0.0%	$ -
11B	Single Family Dwelling	2	Crawl Space	$ 132,933.00	0.43	2.5	-0.02	8.4%	$ 15,967.91
12	Single Family Dwelling	2	Crawl Space	$ 134,101.00	0.43	2.5	-2.29	0.0%	$ -
13	Single Family Dwelling	1	Basement	$ 101,856.00	0.71	0.0	-5.00	0.0%	$ -
14	Single Family Dwelling	1	Crawl Space	$ 111,386.00	0.71	2.5	-1.79	0.0%	$ -
15	Single Family Dwelling	1	Basement	$ 107,023.00	0.71	0.0	0.46	22.6%	$ 41,360.11
16	Single Family Dwelling	1	Basement	$ 98,083.00	0.71	0.0	-5.00	0.0%	$ -
17	Single Family Dwelling	2	Crawl Space	$ 239,206.00	0.43	2.5	-7.50	0.0%	$ -
18A	Single Family Dwelling	1	Basement	$ 95,213.00	0.71	0.0	0.02	9.1%	$ 14,816.09
18B	Single Family Dwelling	1	Basement	$ 67,986.00	0.71	0.0	0.01	9.1%	$ 10,579.30
19	Single Family Dwelling	1	Crawl Space	$ 82,004.00	0.71	2.5	-7.50	0.0%	$ -
20A	Single Family Dwelling	2	Crawl Space	$ 154,626.00	0.43	2.5	-1.12	0.0%	$ -
20B	Single Family Dwelling	2	Slab on Grade	$ 115,768.00	0.43	0.5	0.18	8.4%	$ 13,906.05
20C	Single Family Dwelling	1	Basement	$ 73,480.00	0.71	0.0	0.05	9.1%	$ 11,434.22
20D	Single Family Dwelling	2	Crawl Space	$ 111,386.00	0.43	2.5	-7.50	0.0%	$ -
21	Single Family Dwelling	1	Crawl Space	$ 67,562.00	0.71	2.5	-7.50	0.0%	$ -
22	Single Family Dwelling	1	Slab on Grade	$ 74,866.00	0.71	0.5	-5.50	0.0%	$ -
23	Single Family Dwelling	1	Slab on Grade	$ 80,344.00	0.71	0.5	-5.50	0.0%	$ -
24	Single Family Dwelling	1	Slab on Grade	$ 74,866.00	0.71	0.5	-5.50	0.0%	$ -
25	Single Family Dwelling	1	Crawl Space	$ 74,866.00	0.71	2.5	-7.50	0.0%	$ -
26	Single Family Dwelling	1	Slab on Grade	$ 89,474.00	0.71	0.5	-5.50	0.0%	$ -
27	Single Family Dwelling	1	Crawl Space	$ 80,855.00	0.71	2.5	-7.50	0.0%	$ -
								TOTAL =	$ 163,843.20

FFE Assumptions By Foundation Type

Basement =	0.0	ft above ground
Slab on Grade =	0.5	ft above ground
Crawl Space =	2.5	ft above ground

POST-PROJECT DAMAGE ESTIMATES

		NCFRIS			USACE DDF		USACE DDF		
Property ID	**Occupancy Type**	**Stories**	**Foundation**	**Building Value**	**CSVR1**	**FFE**	**2yr Structure Flooding Depth**	**2yr % Damaged**	**2yr Calculated Damages**
1A	Retail Trade	2	Slab on Grade	$ 258,639.00	3.67	0.5	-5.50	0.0%	$ -
1B	Retail Trade	1	Slab on Grade	$ 114,186.00	3.67	0.5	-5.50	0.0%	$ -
2	Personal and Repair Services	1	Slab on Grade	$ 51,140.00	0.74	0.5	-5.50	0.0%	$ -
3	Single Family Dwelling	1	Basement	$ 80,855.00	0.71	0.0	-5.00	0.0%	$ -
4	Single Family Dwelling	1	Crawl Space	$ 71,652.00	0.71	2.5	-7.50	0.0%	$ -
5	Single Family Dwelling	1	Basement	$ 123,584.00	0.71	0.0	-5.00	0.0%	$ -
6	Single Family Dwelling	2	Crawl Space	$ 73,990.00	0.43	2.5	-7.50	0.0%	$ -
7	Business/Professonial/Technical Services	1	Slab on Grade	$ 185,734.00	0.44	0.5	-5.50	0.0%	$ -
8	Entertainment and Recreation	1	Slab on Grade	$ 2,598,242.00	0.83	0.5	-5.50	0.0%	$ -
9	Single Family Dwelling	1	Slab on Grade	$ 98,969.00	0.71	0.5	-5.50	0.0%	$ -
10	Single Family Dwelling	1	Basement	$ 68,314.00	0.71	0.0	-5.00	0.0%	$ -
11A	Single Family Dwelling	2	Basement	$ 205,878.00	0.43	0.0	-5.00	0.0%	$ -
11B	Single Family Dwelling	2	Crawl Space	$ 132,933.00	0.43	2.5	-7.50	0.0%	$ -
12	Single Family Dwelling	2	Crawl Space	$ 134,101.00	0.43	2.5	-7.50	0.0%	$ -
13	Single Family Dwelling	1	Basement	$ 101,856.00	0.71	0.0	-5.00	0.0%	$ -
14	Single Family Dwelling	1	Crawl Space	$ 111,386.00	0.71	2.5	-7.50	0.0%	$ -
15	Single Family Dwelling	1	Basement	$ 107,023.00	0.71	0.0	-5.00	0.0%	$ -
16	Single Family Dwelling	1	Basement	$ 98,083.00	0.71	0.0	-5.00	0.0%	$ -
17	Single Family Dwelling	2	Crawl Space	$ 239,206.00	0.43	2.5	-7.50	0.0%	$ -
18A	Single Family Dwelling	1	Basement	$ 95,213.00	0.71	0.0	-5.00	0.0%	$ -
18B	Single Family Dwelling	1	Basement	$ 67,986.00	0.71	0.0	-5.00	0.0%	$ -
19	Single Family Dwelling	1	Crawl Space	$ 82,004.00	0.71	2.5	-7.50	0.0%	$ -
20A	Single Family Dwelling	2	Crawl Space	$ 154,626.00	0.43	2.5	-7.50	0.0%	$ -
20B	Single Family Dwelling	2	Slab on Grade	$ 115,768.00	0.43	0.5	-5.50	0.0%	$ -
20C	Single Family Dwelling	1	Basement	$ 73,480.00	0.71	0.0	-5.00	0.0%	$ -
20D	Single Family Dwelling	2	Crawl Space	$ 111,386.00	0.43	2.5	-7.50	0.0%	$ -
21	Single Family Dwelling	1	Crawl Space	$ 67,562.00	0.71	2.5	-7.50	0.0%	$ -
22	Single Family Dwelling	1	Slab on Grade	$ 74,866.00	0.71	0.5	-5.50	0.0%	$ -
23	Single Family Dwelling	1	Slab on Grade	$ 80,344.00	0.71	0.5	-5.50	0.0%	$ -
24	Single Family Dwelling	1	Slab on Grade	$ 74,866.00	0.71	0.5	-5.50	0.0%	$ -
25	Single Family Dwelling	1	Crawl Space	$ 74,866.00	0.71	2.5	-7.50	0.0%	$ -
26	Single Family Dwelling	1	Slab on Grade	$ 89,474.00	0.71	0.5	-5.50	0.0%	$ -
27	Single Family Dwelling	1	Crawl Space	$ 80,855.00	0.71	2.5	-7.50	0.0%	$ -
								TOTAL =	$ -

FFE Assumptions By Foundation Type

Basement =	0.0	ft above ground
Slab on Grade =	0.5	ft above ground
Crawl Space =	2.5	ft above ground

2022 FEMA BRIC Grant Application
Hominy Swamp Stormwater Park

PRE-PROJECT DAMAGE ESTIMATES

		NCFRIS			USACE DDF		USACE DDF		
Property ID	**Occupancy Type**	**Stories**	**Foundation**	**Building Value**	**CSVR1**	**FFE**	**5yr Structure Flooding Depth**	**5yr % Damaged**	**5yr Calculated Damages**
1A	Retail Trade	2	Slab on Grade	$ 258,639.00	3.67	0.5	-0.48	0.0%	$ -
1B	Retail Trade	1	Slab on Grade	$ 114,186.00	3.67	0.5	0.39	0.0%	$ -
2	Personal and Repair Services	1	Slab on Grade	$ 51,140.00	0.74	0.5	0.88	17.0%	$ 15,127.21
3	Single Family Dwelling	1	Basement	$ 80,855.00	0.71	0.0	0.24	9.1%	$ 12,581.85
4	Single Family Dwelling	1	Crawl Space	$ 71,652.00	0.71	2.5	-7.50	0.0%	$ -
5	Single Family Dwelling	1	Basement	$ 123,584.00	0.71	0.0	-5.00	0.0%	$ -
6	Single Family Dwelling	2	Crawl Space	$ 73,990.00	0.43	2.5	-2.01	0.0%	$ -
7	Business/Professional/Technical Services	1	Slab on Grade	$ 185,734.00	0.44	0.5	0.40	0.0%	$ -
8	Entertainment and Recreation	1	Slab on Grade	$ 2,598,242.00	0.83	0.5	-0.31	0.0%	$ -
9	Single Family Dwelling	1	Slab on Grade	$ 98,969.00	0.71	0.5	-5.50	0.0%	$ -
10	Single Family Dwelling	1	Basement	$ 68,314.00	0.71	0.0	2.47	45.9%	$ 53,618.98
11A	Single Family Dwelling	2	Basement	$ 205,878.00	0.43	0.0	0.51	16.8%	$ 49,460.13
11B	Single Family Dwelling	2	Crawl Space	$ 132,933.00	0.43	2.5	0.64	16.8%	$ 31,935.82
12	Single Family Dwelling	2	Crawl Space	$ 134,101.00	0.43	2.5	-1.62	0.0%	$ -
13	Single Family Dwelling	1	Basement	$ 101,856.00	0.71	0.0	-5.00	0.0%	$ -
14	Single Family Dwelling	1	Crawl Space	$ 111,386.00	0.71	2.5	-1.13	0.0%	$ -
15	Single Family Dwelling	1	Basement	$ 107,023.00	0.71	0.0	1.12	29.3%	$ 53,621.73
16	Single Family Dwelling	1	Basement	$ 98,083.00	0.71	0.0	-5.00	0.0%	$ -
17	Single Family Dwelling	2	Crawl Space	$ 239,206.00	0.43	2.5	-2.47	0.0%	$ -
18A	Single Family Dwelling	1	Basement	$ 95,213.00	0.71	0.0	0.30	9.1%	$ 14,816.09
18B	Single Family Dwelling	1	Basement	$ 67,986.00	0.71	0.0	1.16	29.3%	$ 34,063.03
19	Single Family Dwelling	1	Crawl Space	$ 82,004.00	0.71	2.5	-7.50	0.0%	$ -
20A	Single Family Dwelling	2	Crawl Space	$ 154,626.00	0.43	2.5	0.05	8.4%	$ 18,573.68
20B	Single Family Dwelling	2	Slab on Grade	$ 115,768.00	0.43	0.5	1.34	24.2%	$ 40,062.67
20C	Single Family Dwelling	1	Basement	$ 73,480.00	0.71	0.0	1.22	29.3%	$ 36,815.68
20D	Single Family Dwelling	2	Crawl Space	$ 111,386.00	0.43	2.5	-7.50	0.0%	$ -
21	Single Family Dwelling	1	Crawl Space	$ 67,562.00	0.71	2.5	-2.44	0.0%	$ -
22	Single Family Dwelling	1	Slab on Grade	$ 74,866.00	0.71	0.5	-0.01	9.1%	$ 11,649.90
23	Single Family Dwelling	1	Slab on Grade	$ 80,344.00	0.71	0.5	0.23	9.1%	$ 12,502.33
24	Single Family Dwelling	1	Slab on Grade	$ 74,866.00	0.71	0.5	-0.01	0.0%	$ -
25	Single Family Dwelling	1	Crawl Space	$ 74,866.00	0.71	2.5	-2.01	0.0%	$ -
26	Single Family Dwelling	1	Slab on Grade	$ 89,474.00	0.71	0.5	-0.44	0.0%	$ -
27	Single Family Dwelling	1	Crawl Space	$ 80,855.00	0.71	2.5	-2.35	0.0%	$ -
								TOTAL =	$ 384,829.10

FFE Assumptions By Foundation Type

Basement =	0.0	ft above ground
Slab on Grade =	0.5	ft above ground
Crawl Space =	2.5	ft above ground

POST-PROJECT DAMAGE ESTIMATES

		NCFRIS			USACE DDF		USACE DDF		
Property ID	**Occupancy Type**	**Stories**	**Foundation**	**Building Value**	**CSVR1**	**FFE**	**5yr Structure Flooding Depth**	**5yr % Damaged**	**5yr Calculated Damages**
1A	Retail Trade	2	Slab on Grade	$ 258,639.00	3.67	0.5	-5.50	0.0%	$ -
1B	Retail Trade	1	Slab on Grade	$ 114,186.00	3.67	0.5	-0.37	0.0%	$ -
2	Personal and Repair Services	1	Slab on Grade	$ 51,140.00	0.74	0.5	-0.12	0.0%	$ -
3	Single Family Dwelling	1	Basement	$ 80,855.00	0.71	0.0	-5.00	0.0%	$ -
4	Single Family Dwelling	1	Crawl Space	$ 71,652.00	0.71	2.5	-7.50	0.0%	$ -
5	Single Family Dwelling	1	Basement	$ 123,584.00	0.71	0.0	-5.00	0.0%	$ -
6	Single Family Dwelling	2	Crawl Space	$ 73,990.00	0.43	2.5	-2.49	0.0%	$ -
7	Business/Professonial/Technical Services	1	Slab on Grade	$ 185,734.00	0.44	0.5	-0.23	0.0%	$ -
8	Entertainment and Recreation	1	Slab on Grade	$ 2,598,242.00	0.83	0.5	-5.50	0.0%	$ -
9	Single Family Dwelling	1	Slab on Grade	$ 98,969.00	0.71	0.5	-5.50	0.0%	$ -
10	Single Family Dwelling	1	Basement	$ 68,314.00	0.71	0.0	-5.00	0.0%	$ -
11A	Single Family Dwelling	2	Basement	$ 205,878.00	0.43	0.0	-5.00	0.0%	$ -
11B	Single Family Dwelling	2	Crawl Space	$ 132,933.00	0.43	2.5	-2.22	0.0%	$ -
12	Single Family Dwelling	2	Crawl Space	$ 134,101.00	0.43	2.5	-7.50	0.0%	$ -
13	Single Family Dwelling	1	Basement	$ 101,856.00	0.71	0.0	-5.00	0.0%	$ -
14	Single Family Dwelling	1	Crawl Space	$ 111,386.00	0.71	2.5	-7.50	0.0%	$ -
15	Single Family Dwelling	1	Basement	$ 107,023.00	0.71	0.0	-5.00	0.0%	$ -
16	Single Family Dwelling	1	Basement	$ 98,083.00	0.71	0.0	-5.00	0.0%	$ -
17	Single Family Dwelling	2	Crawl Space	$ 239,206.00	0.43	2.5	-7.50	0.0%	$ -
18A	Single Family Dwelling	1	Basement	$ 95,213.00	0.71	0.0	-5.00	0.0%	$ -
18B	Single Family Dwelling	1	Basement	$ 67,986.00	0.71	0.0	-5.00	0.0%	$ -
19	Single Family Dwelling	1	Crawl Space	$ 82,004.00	0.71	2.5	-7.50	0.0%	$ -
20A	Single Family Dwelling	2	Crawl Space	$ 154,626.00	0.43	2.5	-7.50	0.0%	$ -
20B	Single Family Dwelling	2	Slab on Grade	$ 115,768.00	0.43	0.5	-5.50	0.0%	$ -
20C	Single Family Dwelling	1	Basement	$ 73,480.00	0.71	0.0	-5.00	0.0%	$ -
20D	Single Family Dwelling	2	Crawl Space	$ 111,386.00	0.43	2.5	-7.50	0.0%	$ -
21	Single Family Dwelling	1	Crawl Space	$ 67,562.00	0.71	2.5	-7.50	0.0%	$ -
22	Single Family Dwelling	1	Slab on Grade	$ 74,866.00	0.71	0.5	-5.50	0.0%	$ -
23	Single Family Dwelling	1	Slab on Grade	$ 80,344.00	0.71	0.5	-5.50	0.0%	$ -
24	Single Family Dwelling	1	Slab on Grade	$ 74,866.00	0.71	0.5	-5.50	0.0%	$ -
25	Single Family Dwelling	1	Crawl Space	$ 74,866.00	0.71	2.5	-7.50	0.0%	$ -
26	Single Family Dwelling	1	Slab on Grade	$ 89,474.00	0.71	0.5	-5.50	0.0%	$ -
27	Single Family Dwelling	1	Crawl Space	$ 80,855.00	0.71	2.5	-7.50	0.0%	$ -
								TOTAL =	$ -

FFE Assumptions By Foundation Type

Basement =	0.0	ft above ground
Slab on Grade =	0.5	ft above ground
Crawl Space =	2.5	ft above ground

2022 FEMA BRIC Grant Application
Hominy Swamp Stormwater Park

PRE-PROJECT DAMAGE ESTIMATES

		NCFRIS			USACE DDF		USACE DDF		
Property ID	**Occupancy Type**	**Stories**	**Foundation**	**Building Value**	**CSVR1**	**FFE**	**10yr Structure Flooding Depth**	**10yr % Damaged**	**10yr Calculated Damages**
1A	Retail Trade	2	Slab on Grade	$ 258,639.00	3.67	0.5	-0.47	0.0%	$ -
1B	Retail Trade	1	Slab on Grade	$ 114,186.00	3.67	0.5	0.52	55.0%	$ 293,286.74
2	Personal and Repair Services	1	Slab on Grade	$ 51,140.00	0.74	0.5	0.99	17.0%	$ 15,127.21
3	Single Family Dwelling	1	Basement	$ 80,855.00	0.71	0.0	0.36	9.1%	$ 12,581.85
4	Single Family Dwelling	1	Crawl Space	$ 71,652.00	0.71	2.5	-7.50	0.0%	$ -
5	Single Family Dwelling	1	Basement	$ 123,584.00	0.71	0.0	-5.00	0.0%	$ -
6	Single Family Dwelling	2	Crawl Space	$ 73,990.00	0.43	2.5	-1.89	0.0%	$ -
7	Business/Professional/Technical Services	1	Slab on Grade	$ 185,734.00	0.44	0.5	0.55	11.0%	$ 29,420.27
8	Entertainment and Recreation	1	Slab on Grade	$ 2,598,242.00	0.83	0.5	-0.27	0.0%	$ -
9	Single Family Dwelling	1	Slab on Grade	$ 98,969.00	0.71	0.5	-5.50	0.0%	$ -
10	Single Family Dwelling	1	Basement	$ 68,314.00	0.71	0.0	2.71	45.9%	$ 53,618.98
11A	Single Family Dwelling	2	Basement	$ 205,878.00	0.43	0.0	0.76	16.8%	$ 49,460.13
11B	Single Family Dwelling	2	Crawl Space	$ 132,933.00	0.43	2.5	0.88	16.8%	$ 31,935.82
12	Single Family Dwelling	2	Crawl Space	$ 134,101.00	0.43	2.5	-1.39	0.0%	$ -
13	Single Family Dwelling	1	Basement	$ 101,856.00	0.71	0.0	0.01	9.1%	$ 15,849.81
14	Single Family Dwelling	1	Crawl Space	$ 111,386.00	0.71	2.5	-0.90	0.0%	$ -
15	Single Family Dwelling	1	Basement	$ 107,023.00	0.71	0.0	1.36	29.3%	$ 53,621.73
16	Single Family Dwelling	1	Basement	$ 98,083.00	0.71	0.0	-5.00	0.0%	$ -
17	Single Family Dwelling	2	Crawl Space	$ 239,206.00	0.43	2.5	-2.29	0.0%	$ -
18A	Single Family Dwelling	1	Basement	$ 95,213.00	0.71	0.0	0.50	22.6%	$ 36,796.02
18B	Single Family Dwelling	1	Basement	$ 67,986.00	0.71	0.0	1.44	34.8%	$ 40,457.11
19	Single Family Dwelling	1	Crawl Space	$ 82,004.00	0.71	2.5	-7.50	0.0%	$ -
20A	Single Family Dwelling	2	Crawl Space	$ 154,626.00	0.43	2.5	0.32	8.4%	$ 18,573.68
20B	Single Family Dwelling	2	Slab on Grade	$ 115,768.00	0.43	0.5	1.62	28.5%	$ 47,181.25
20C	Single Family Dwelling	1	Basement	$ 73,480.00	0.71	0.0	1.51	34.8%	$ 43,726.48
20D	Single Family Dwelling	2	Crawl Space	$ 111,386.00	0.43	2.5	-7.50	0.0%	$ -
21	Single Family Dwelling	1	Crawl Space	$ 67,562.00	0.71	2.5	-2.17	0.0%	$ -
22	Single Family Dwelling	1	Slab on Grade	$ 74,866.00	0.71	0.5	0.24	9.1%	$ 11,649.90
23	Single Family Dwelling	1	Slab on Grade	$ 80,344.00	0.71	0.5	0.48	22.6%	$ 31,049.74
24	Single Family Dwelling	1	Slab on Grade	$ 74,866.00	0.71	0.5	0.23	9.1%	$ 11,649.90
25	Single Family Dwelling	1	Crawl Space	$ 74,866.00	0.71	2.5	-1.77	0.0%	$ -
26	Single Family Dwelling	1	Slab on Grade	$ 89,474.00	0.71	0.5	-0.33	0.0%	$ -
27	Single Family Dwelling	1	Crawl Space	$ 80,855.00	0.71	2.5	-2.07	0.0%	$ -
								TOTAL =	$ 795,986.61

FFE Assumptions By Foundation Type

Basement =	0.0	ft above ground
Slab on Grade =	0.5	ft above ground
Crawl Space =	2.5	ft above ground

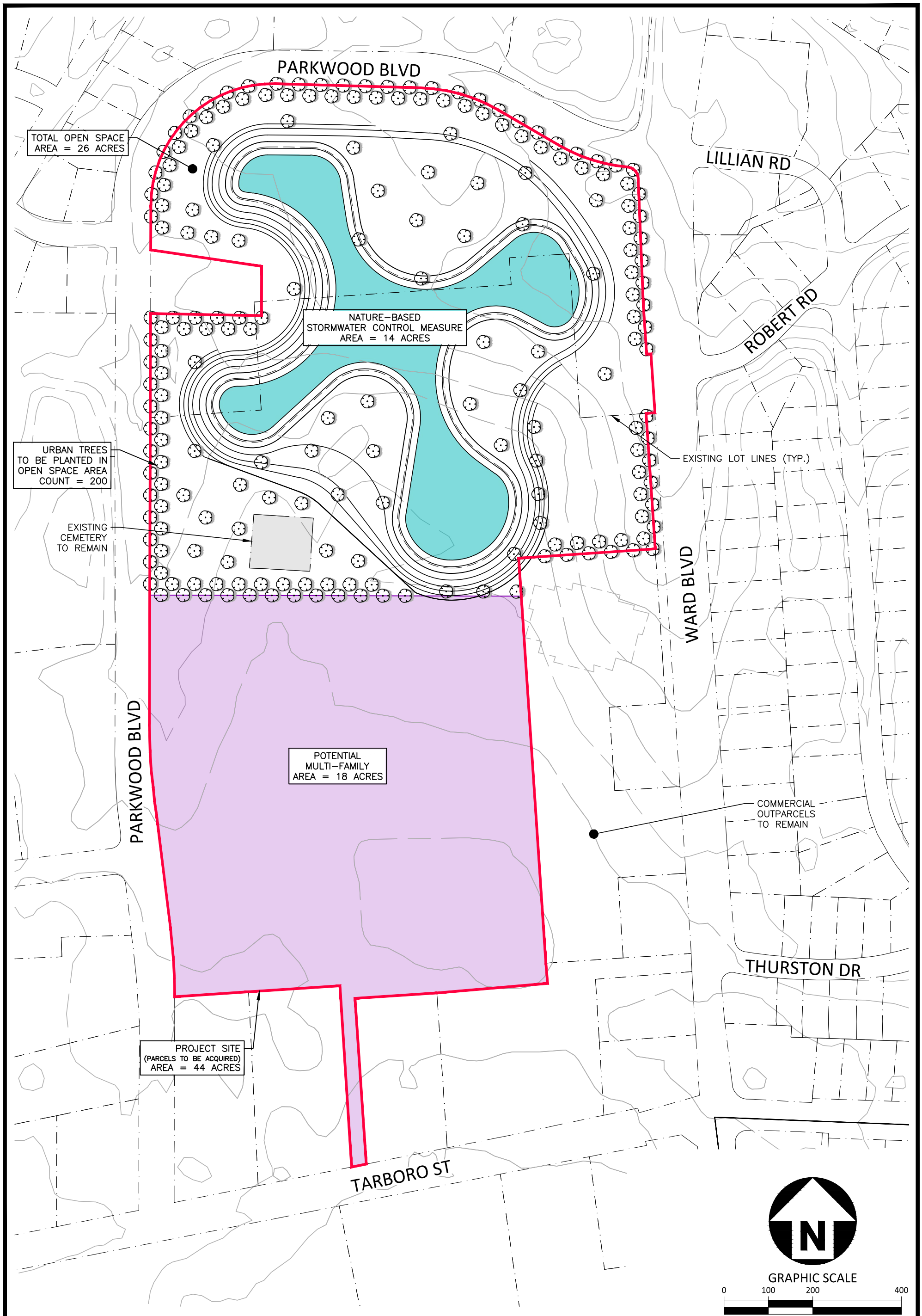
POST-PROJECT DAMAGE ESTIMATES

		NCFRIS			USACE DDF		USACE DDF		
Property ID	**Occupancy Type**	**Stories**	**Foundation**	**Building Value**	**CSVR1**	**FFE**	**10yr Structure Flooding Depth**	**10yr % Damaged**	**10yr Calculated Damages**
1A	Retail Trade	2	Slab on Grade	$ 258,639.00	3.67	0.5	-0.49	0.0%	$ -
1B	Retail Trade	1	Slab on Grade	$ 114,186.00	3.67	0.5	-0.18	0.0%	$ -
2	Personal and Repair Services	1	Slab on Grade	$ 51,140.00	0.74	0.5	0.33	0.0%	$ -
3	Single Family Dwelling	1	Basement	$ 80,855.00	0.71	0.0	-5.00	0.0%	$ -
4	Single Family Dwelling	1	Crawl Space	$ 71,652.00	0.71	2.5	-7.50	0.0%	$ -
5	Single Family Dwelling	1	Basement	$ 123,584.00	0.71	0.0	-5.00	0.0%	$ -
6	Single Family Dwelling	2	Crawl Space	$ 73,990.00	0.43	2.5	-2.36	0.0%	$ -
7	Business/Professonial/Technical Services	1	Slab on Grade	$ 185,734.00	0.44	0.5	-0.08	0.0%	$ -
8	Entertainment and Recreation	1	Slab on Grade	$ 2,598,242.00	0.83	0.5	-0.41	0.0%	$ -
9	Single Family Dwelling	1	Slab on Grade	$ 98,969.00	0.71	0.5	-5.50	0.0%	$ -
10	Single Family Dwelling	1	Basement	$ 68,314.00	0.71	0.0	0.56	22.6%	$ 26,400.63
11A	Single Family Dwelling	2	Basement	$ 205,878.00	0.43	0.0	-5.00	0.0%	$ -
11B	Single Family Dwelling	2	Crawl Space	$ 132,933.00	0.43	2.5	-1.27	0.0%	$ -
12	Single Family Dwelling	2	Crawl Space	$ 134,101.00	0.43	2.5	-7.50	0.0%	$ -
13	Single Family Dwelling	1	Basement	$ 101,856.00	0.71	0.0	-5.00	0.0%	$ -
14	Single Family Dwelling	1	Crawl Space	$ 111,386.00	0.71	2.5	-7.50	0.0%	$ -
15	Single Family Dwelling	1	Basement	$ 107,023.00	0.71	0.0	-5.00	0.0%	$ -
16	Single Family Dwelling	1	Basement	$ 98,083.00	0.71	0.0	-5.00	0.0%	$ -
17	Single Family Dwelling	2	Crawl Space	$ 239,206.00	0.43	2.5	-7.50	0.0%	$ -
18A	Single Family Dwelling	1	Basement	$ 95,213.00	0.71	0.0	-5.00	0.0%	$ -
18B	Single Family Dwelling	1	Basement	$ 67,986.00	0.71	0.0	-5.00	0.0%	$ -
19	Single Family Dwelling	1	Crawl Space	$ 82,004.00	0.71	2.5	-7.50	0.0%	$ -
20A	Single Family Dwelling	2	Crawl Space	$ 154,626.00	0.43	2.5	-7.50	0.0%	$ -
20B	Single Family Dwelling	2	Slab on Grade	$ 115,768.00	0.43	0.5	-5.50	0.0%	$ -
20C	Single Family Dwelling	1	Basement	$ 73,480.00	0.71	0.0	-5.00	0.0%	$ -
20D	Single Family Dwelling	2	Crawl Space	$ 111,386.00	0.43	2.5	-7.50	0.0%	$ -
21	Single Family Dwelling	1	Crawl Space	$ 67,562.00	0.71	2.5	-7.50	0.0%	$ -
22	Single Family Dwelling	1	Slab on Grade	$ 74,866.00	0.71	0.5	-5.50	0.0%	$ -
23	Single Family Dwelling	1	Slab on Grade	$ 80,344.00	0.71	0.5	-5.50	0.0%	$ -
24	Single Family Dwelling	1	Slab on Grade	$ 74,866.00	0.71	0.5	-5.50	0.0%	$ -
25	Single Family Dwelling	1	Crawl Space	$ 74,866.00	0.71	2.5	-7.50	0.0%	$ -
26	Single Family Dwelling	1	Slab on Grade	$ 89,474.00	0.71	0.5	-5.50	0.0%	$ -
27	Single Family Dwelling	1	Crawl Space	$ 80,855.00	0.71	2.5	-7.50	0.0%	$ -
								TOTAL =	$ 26,400.63

FFE Assumptions By Foundation Type

Basement =	0.0	ft above ground
Slab on Grade =	0.5	ft above ground
Crawl Space =	2.5	ft above ground

APPENDIX G
Concept Layout (Urban Trees)



M:\Projects\WIL\WIL21003\04-Production\Water Resources\Current Drawings\WIL21003x.dwg, 1/4/2023 5:48:56 PM, Rebecca Stubbs

McAdams

The John R. McAdams Company, Inc.
One Glenwood Avenue
Suite 201
Raleigh, NC 27603

phone 919. 823. 4300
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

HOMINY SWAMP STORMWATER PARK

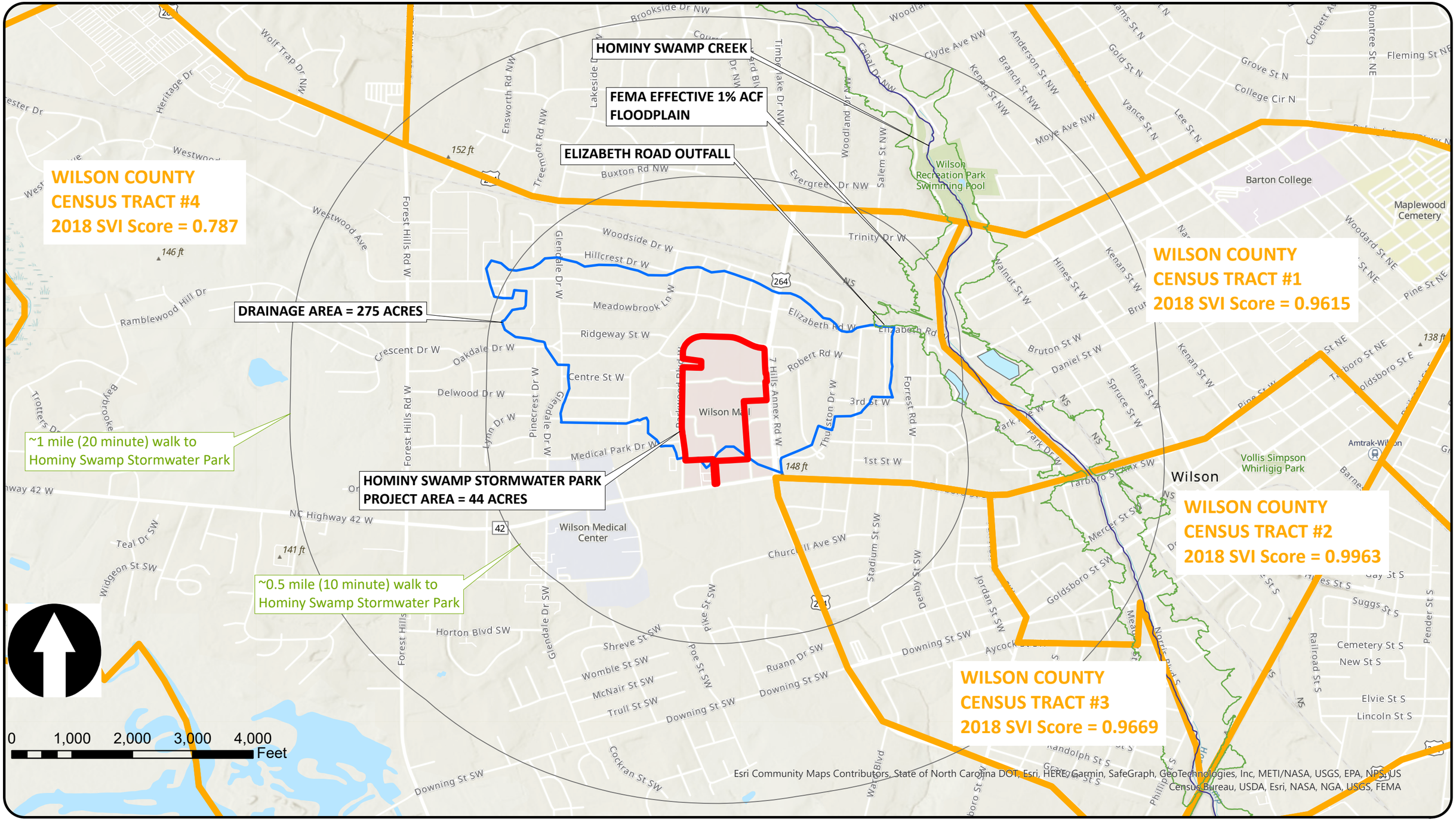
PROPOSED CONCEPT DESIGN

WILSON, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO.	WIL21002.05
FILENAME	WIL21003-E3
CHECKED BY	RAS
DRAWN BY	RAS
SCALE	1" = 200'
DATE	1. 4. 2023

APPENDIX H
CDC SVI Proximity



McAdams	Prepared For: WILSON NORTH CAROLINA	**HOMINY SWAMP STORMWATER PARK** **FEMA 2022 BRIC APPLICATION** **BENEFITTING AREA EXHIBIT** Wilson, NC	Drawn By: RAS Date: 1/4/2023 Scale: 1" = 1,500' Project #: WIL21002.05	**FIGURE** **2**