



North Carolina Onsite Wastewater Contractor Inspector Certification Board
Authorized Onsite Wastewater Evaluator Permit Option for Non-Engineered Systems
Notice of Intent (NOI) to Construct

☒ New ☐ Expansion ☐ Repair ☐ Relocation ☐ Relocation of Repair Area

Owner or Legal Representative Information:

Name: JSJ Builders, Inc.

Mailing address: 1135 Robeson St. City: Fayetteville State: NC Zip: 28305

Phone: 910-438-0796 Email: Kevinshortridge@gmail.com

Authorized Onsite Wastewater Evaluator Information:

Name: Mike Eaker

Certification #: 10013E

Mailing address: PO Box 9321 City: Fayetteville State: NC Zip: 28311

Phone: 910-822-4540 Email: Mike@southeasternsoil.com



Site Location Information:

Site address: 324 Hookbill Lane, Lillington, NC 27546

Tax parcel identification number or subdivision lot, block number of property: 0527-41-9950.000

Ducks Landing, Lot 109 County: Harnett

System Information:

Wastewater System Type: Pump to Accepted (25% reduction)

Daily Design Flow: 480 gpd

Saprolite System: ☐ Yes ☒ No Subsurface Operator Required: ☐ Yes ☒ No

Water Supply Type: ☒ Private Well ☐ Public Water Supply ☐ Spring ☐ Other: _____

Facility Type:

☒ Residential 4 # Bedrooms 8 Maximum # of Occupants

☐ Business Type of Business and Basis for Flow: _____

☐ Public Assembly Type of Public Assembly and Basis for Flow: _____

Required Attachments:

☒ Plat or Site Plan

☒ Evaluation of Soil and Site Features by Licensed Soil Scientist

Attest: On this the 13 day of June, 2025 by signature below I hereby attest that the information required to be included with this NOI to Construct is accurate and complete to the best of my knowledge. Furthermore, I hereby attest that I have adhered to the laws and rules governing onsite wastewater systems in the state of North Carolina.

This NOI shall expire on 13 day of June, 2030.

Signature of Authorized Onsite Wastewater Evaluator: Mike Eaker

Signature of Owner or Legal Representative: Kevin Shortridge

Disclosure: The owner may apply for a building permit for the project upon submitting a complete NOI to Construct and the fee required (if any) to the local health department. An onsite wastewater system authorized by an authorized onsite wastewater evaluator shall be transferable to a new owner with the consent of the authorized onsite wastewater evaluator.

Local Health Department Receipt Acknowledgement:

Signature of Local Health Department Representative: _____

Date: _____

Southeastern Soil & Environmental Associates, Inc.

P.O. Box 9321
Fayetteville, NC 28311
Phone/Fax (910) 822-4540
Email mike@southeasternsoil.com

June 13, 2025

Mr. Kevin Shortridge
JSJ Builders, Inc.
1135 Robeson St.
Fayetteville, NC 28305

Re: Soil/site evaluation for subsurface waste disposal (GS 130A-336.2) AOWE, Ducks Landing, Lot 109, PIN 0527-41-9950.000, 324 Hookbill Lane, Lillington, Harnett County, North Carolina

Dear Mr. Shortridge,

A soil/site evaluation has been conducted on the aforementioned property at your request. The purpose of the investigation was to determine if soils were suitable or provisionally suitable for a subsurface waste disposal system (conventional, accepted and innovative) to serve a proposed single-family residence (4-bedroom home). All ratings and determinations were made in accordance with "Onsite Wastewater Rules, 15A NCAC 18E". **This LSS evaluation is being submitted to meet the requirements of GS 130A-336.2 (AOWE).**

The soil evaluation was completed on June 12, 2025. Hand auger borings were advanced under moist soil conditions. The site essentially lies on a linear slope landscape (3 - 5% slope). Soil borings conducted in most of this area consisted of 13 or more inches of loamy sand underlain by sandy loam, sandy clay loam and/or sandy clay to 48 or more inches below the soil surface. Soil wetness and/or parent material (greater than 50%) was not observed shallower than 36 inches below the soil surface (initial system) and 37 inches (repair system). All other soil characteristics were suitable to at least 48 inches.

Based on soil borings and site conditions, the site would be designated suitable for a pump to a shallow accepted subsurface waste disposal drainfield (0.35 gal/day/ft² LTAR; initial system). There is enough suitable soil area to allow for a pump to a porous panel block subsurface septic system repair (0.35 gal/day/ft²). A map showing the approximate location of the site and proposed septic layout accompanies this report.

[Note: No grading, rutting or other soil disturbance can occur in or near the proposed septic area. Any grading can alter the findings of this report and render the site unusable. As such, we recommend the builder protect the proposed septic areas with rope, flagging, fencing, etc.]

Design Summary

- Pump to Accepted product (365', see septic layout)
- 480 gal/day flow rate (4BR)
- 20" maximum trench depth
- 0.350 gpd/ft² LTAR (initial and repair)
- 1000-gallon septic and pump tank (certified watertight)
- Pump to produce 21.33 gal/min @ 15.20 feet TDH
- Pump dose 165 gallons (8.3-inch drawdown)
- Add French Drain with media depth to 36 inches (see map)
- No grading, rutting or filling in septic areas
- No vertical cuts (greater than 2') within 15' of septic lines/areas
- Keep tanks and drainlines 10' from property lines
- Keep supply line 5 or more feet from property lines
- **Install in dry soil conditions**
- Maintain natural contours when clearing the lots
- Direct gutter water away from septic system
- **AOWE must preapprove Licensed installer**
- **Preconstruction conference required 2 weeks prior to installation of septic**
- **Contractor to provide 2 week's notice prior to installation**

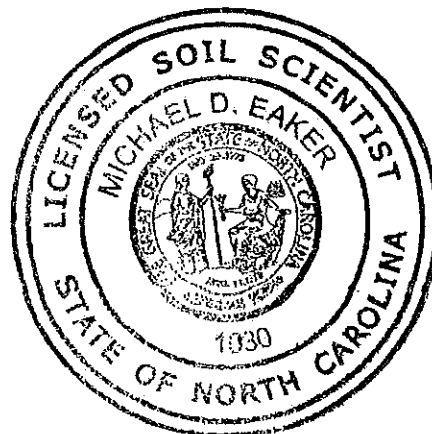
During site construction, it is important not to impact and suitable or provisionally suitable soil areas with activities such as excavation or filling. Only the vegetation should be removed in the areas of the proposed septic drainfields to prevent any disturbance of naturally occurring soil. We recommend all lot clearing activity be delayed until the local health department issues a permit.

To the extent possible, we have identified the soil types that will impact the flow of wastewater on this site and have provided a professional opinion as to the best septic system layout. This report does not guarantee that the proposed septic system will properly function for any specific length of time.

Sincerely,



Mike Eaker
NC Licensed Soil Scientist # 1030
NC Authorized Wastewater Evaluator 10013E



SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOC., INC.

PROPOSED SUBSURFACE WASTE DISPOSAL SYSTEM DETAIL SHEET

SUBDIVISION: Ducks Landing

LOT 109

INITIAL SYSTEM: Accepted 25% Reduction

REPAIR: PPBPS-Horizontal

DISTRIBUTION: Pump to D. Box

DISTRIBUTION Pressure Manifold

BENCHMARK: 100.0

LOCATION Elec. Box Pad FC 108/109

NO. BEDROOMS: 4

LTAR 0.35 gpd/ft2

SEPTIC TANK SIZE 1000 Gallons

PUMP TANK SIZE 1000 Gallons

	<u>LINE</u>	<u>FLAG COLOR</u>	<u>ELEVATION</u>	<u>LENGTH</u>
Initial	1	O	100.70	105'
	2	Y	100.40	120'
	3	B	100.10	140'
				365' TOTAL
Repair	4	L	99.60	140'
	5	R	99.20	100'
	6	Y	98.70	60'
				300' TOTAL

BY Mike Eaker

DATE 6/12/25

TYPICAL PROFILE

**THERE SHALL BE NO GRADING,
CUTTING, LOGGING OR OTHER SOIL
DISTURBANCE IN SEPTIC AREA**

Initial

0-15	LS/SL	VFr/Fr/Gr
15-48	SCL/SC	FI/SBk
CR2	36"	

HEALTH DEPARTMENT USE ONLY.

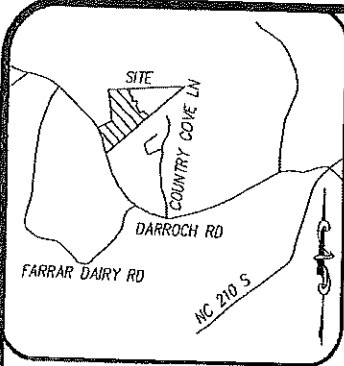
DESIGNS DO NOT GURANTEE FUNCTIONALITY

Repair

0-13	LS/SL	VFr/Fr/Gr
13-48	SCL/SC	FI/SBk
CR2	37"	

★
ADD FRENCH DRAIN
(SEE MAP)





VICINITY MAP (NTS)

LEGEND:

- EIP - EXISTING IRON PIPE
- EIB - EXISTING IRON BAR
- BIP - BENT IRON PIPE
- BBB - BENT IRON BAR
- CM - CONCRETE MONUMENT
- NIP - NEW IRON PIPE SET
- CATV - CABLE TV BOX
- EB - ELECTRIC BOX
- TEL - TELEPHONE PEDESTAL
- PP - POWER POLE
- OHL - OVERHEAD LINE
- LP - LIGHT POLE
- WM - WATER METER
- WV - WATER VALVE
- CO - SEWER CLEAN-OUT
- SW - SIDEWALK
- PO - PORCH
- N/F - NOW OR FORMERLY
- CVRD - COVERED
- CB - CATCH BASIN
- EOP - EDGE OF PAVEMENT
- BOG - BACK OF CURB

IMPERVIOUS SURFACE TABLE

HOUSE	2,174 S.F.
DRIVEWAY	592 S.F.
SIDEWALKS	108 S.F.
TOTAL IMPERVIOUS AREA	2,874 S.F.

SETBACKS:

P.B. 2025, PG. 268

FRONT	35'
SIDE	10'
REAR	25'
SIDE STREET	20'

NOTES:

1. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.

2. AREAS SHOWN HEREON WERE COMPUTED USING THE COORDINATE METHOD.

3. LINES NOT SURVEYED ARE SHOWN AS DASHED LINES FROM INFORMATION REFERENCED ON THE FACE OF THIS PLAT.

4. PROPERTY MAY BE SUBJECT TO ANY/ALL EASEMENTS AND RESTRICTIONS OF RECORD. THIS SURVEY IS A CORRECT REPRESENTATION OF THE LAND PLATTED AND OR DEEDED AND HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. A NORTH CAROLINA LICENSED ATTORNEY-AT-LAW SHOULD BE CONSULTED REGARDING CORRECT OWNERSHIP, WIDTH AND LOCATION OF EASEMENTS, AND OTHER TITLE QUESTIONS REVEALED BY TITLE EXAMINATION.

5. THIS PARCEL IS NOT LOCATED WITHIN A FLOOD HAZARD ZONE AS INDICATED ON CID NO. 370328 PANEL 0526, SUFFIX J, HARNETT COUNTY WITH AN EFFECTIVE DATE OF 10/03/2025.

CERTIFICATE OF ACCURACY & MAPPING

I NICHOLAS M. FRENCH PLS CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL FIELD SURVEY DONE UNDER MY SUPERVISION, AND THAT THE ERROR OF CLOSURE AS COMPUTED BY CO-ORDINATES IS LESS THAN 1:10,000.

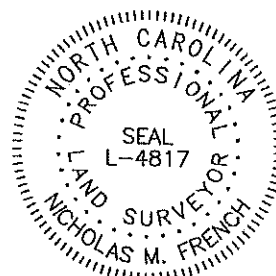
PRELIMINARY

NICHOLAS M. FRENCH, PLS L-4817

DATE

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THIS MAP MAY NOT BE A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS AND HAS NOT BEEN REVIEWED FOR COMPLIANCE WITH RECORDING REQUIREMENTS FOR PLATS.



ADOPTED FROM 12A 2025, PG. 268

FRENCH DRAIN
MEDIA DEPTH TO
36 INCHES

INITIAL SEPTIC

PUMP TO LINES 1-3

365 FEET ACCEPTED

MAX TRENCH BOTTOM DEPTH
20 INCHES (DOWNHILL SIDE)

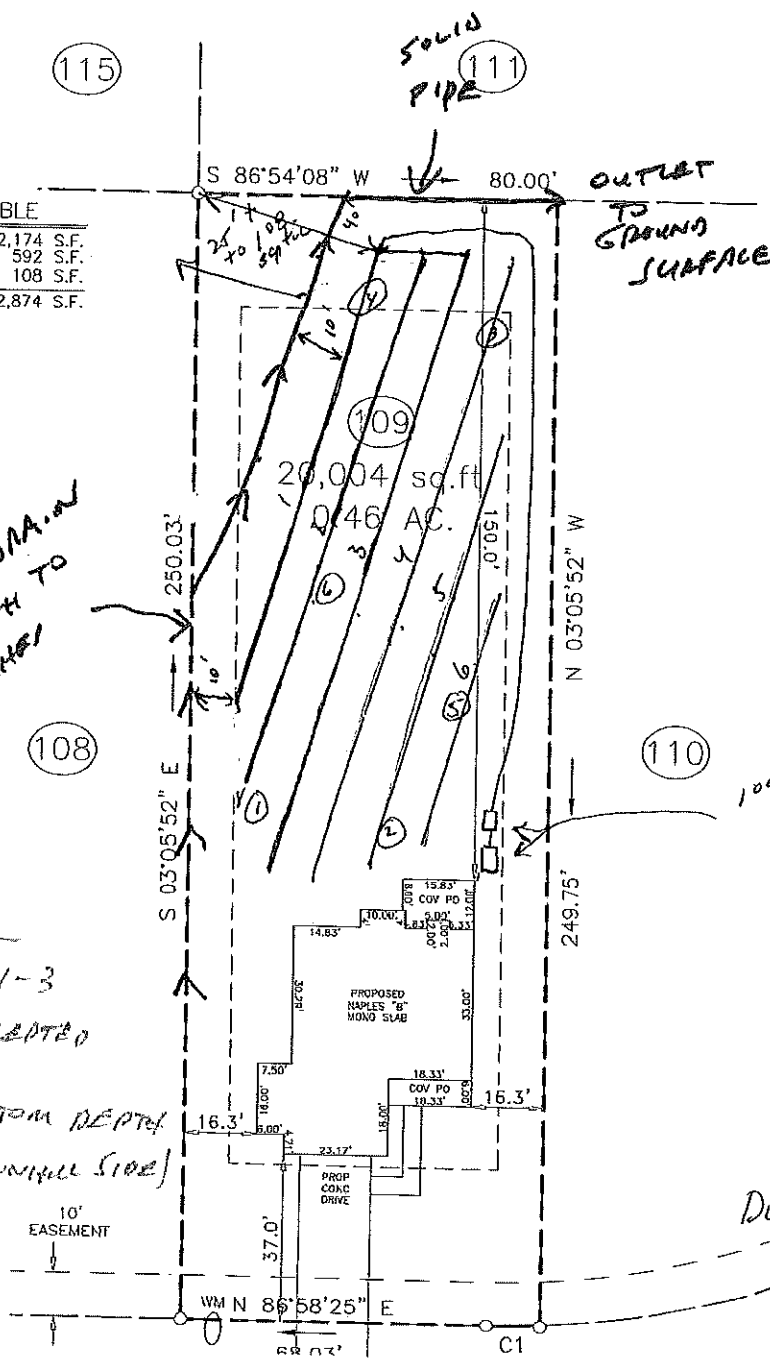
1000 GALLON SEPTIC
& PUMP TANKS
CERTIFIED
WARRANTY

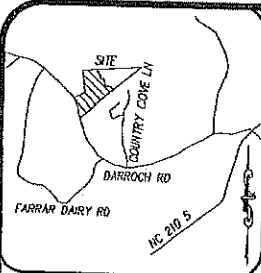


Ducks Landing

1" = 40'

CI	200.00'	11.97'	11.97'	S 85°12'29" W
CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING





VICINITY MAP (NTS)

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FRONT 33'
 SIDE 10'
 REAR 25'
 SIDE STREET 20'

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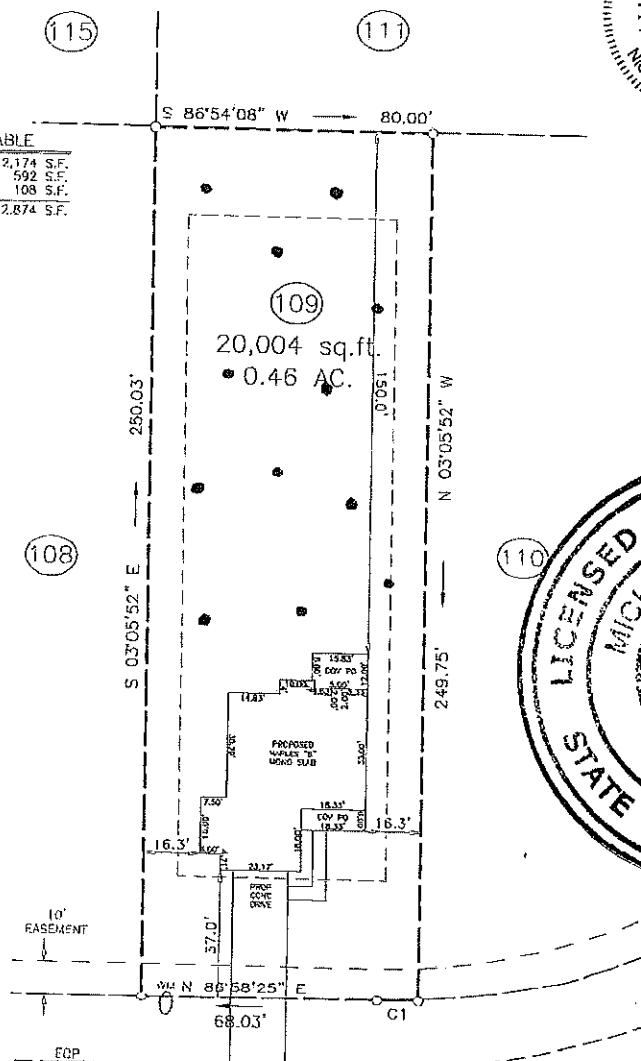
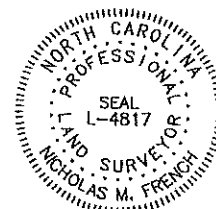
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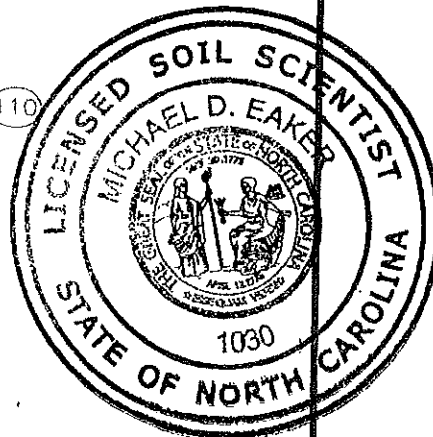
GRAPHIC SCALE



1 INCH = 40 FT.

= SUITABLE SOIL

PRELIMINARY



PROJECT: DUCKS LANDING
 DRAWN BY: VJH
 SURVEYED BY:
 FIELD WORK:
 DWS DATE: 05-16-2026

PLOT PLAN

FOR

JSJ BUILDERS

HOOKBILL LANE
 LOT 109 DUCKS LANDING SUBDIVISION
 ANDERSON CREEK TWP., HARNETT CO., NC
 P.B. 2025, PG. 268



ECLS
 GLOBAL, INC.

U.S. VETERAN-OWNED
 19 N. MCINLEY ST.
 DOATS, NC 27521
 910.897.3257 ECLS@GLOBALENG.COM
 910.897.2329 (FAX) GORD-4175

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM
(Complete all fields in full)

OWNER: JSJ Builders, Inc.

ADDRESS: 1135 Robeson St., Fayetteville, NC 28305

DATE EVALUATED: 6/12/25

PROPOSED FACILITY: SFD

PROPOSED DESIGN FLOW (.0400): 480 GPD

PROPERTY SIZE: 0.46 ac.

LOCATION OF SITE: 324 Hookbill Lane, Lillington, NC 27546

PROPERTY RECORDED:

WATER SUPPLY: ☒ Public ☐ Single Family Well ☐ Shared Well ☐ Spring ☐ Other

WATER SUPPLY SETBACK: N/A: No Set

EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut

TYPE OF WASTEWATER: ☒ Domestic ☐ High Strength ☐ IPWW

P R O F I L E #	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY		OTHER PROFILE FACTORS				.0509 PROFILE CLASS & LTAR*	.0502(d) SLOPE CORRE CTION
			.0503 STRUCTURE/ TEXTURE	.0503 CONSISTENCE/ MINERALOGY	.0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZ		
1	LS 3-5%	0-11	LS/GR	VFR/NEXP	43"	NA	NA	NA	Suitable 0.35	
		11-27	LS/GR	VFR/NEXP	10YR 7/3					
		27-43	SCL/SC/MM SBK	FR/FI/SEXP	17.5R 6/8					
		43-48	SCL/SC WF SBK	FR/FI/SEXP	7.5YR 6/8 10YR 7/1 mott					
2	LS 3-5%	0-13	LS/GR	VFR/NEXP	45"	NA	NA	NA	Suitable 0.35	
		13-23	LS/GR	VFR/NEXP	10YR 6/6					
		23-45	SCL/SC/WF SBK	FI/SEXP	10YR 6/6					
		45-48	SCL/SC/WF SBK	F/SEXP	10YR 6/8 10YR 7/1 mott					
3	LS 3-5%	0-6	LS/GR	VFR/NEXP	41"	NA	NA	NA	Suitable 0.35	
		6-19	LS/GR	VFR/NEXP	10YR 6/4					
		19-41	SCL/SC/MM SBK	FI/SEXP	10YR 6/8					
		41-48	SCL/SC/WF SBK	FI/SEXP	7.5YR 6/8 10YR 7/1 mott					
4	LS 3-5%	0-9	LS/GR	VFR/NEXP	44"	NA	NA	NA	Suitable 0.35	
		9-17	LS/GR	VFR/NEXP	10YR 7/3					
		17-44	SCL/SC/MM SBK	FI/SEXP	7.5YR 6/6					
		44-48	SCL/SC/MASS	FR/SEXP	7.5YR 6/8 10YR 7/1 mott					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.0508)	YES	YES
System Type(s)	Pump to Accpeted	Pump to Panel Block
Site LTAR	0.35 gpd/ft2	0.35 gpd/ft2
Maximum Trench Depth	20"	20"

SITE CLASSIFICATION (.0509): Suitable

EVALUATED BY: M. Eaker

OTHER(S) PRESENT: D. Eaker

Comments:

ADD FRENCH DRAIN

(Continuation Sheet-Complete all field in full)

Page 2 of 2

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH

DIVISION OF PUBLIC HEALTH

ENVIRONMENTAL HEALTH SECTION

ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: Ducks Landing Lot 109

DATE OF EVALUATION: 6/12/25

COUNTY: Hammett

[illegible]

COMMENTS:



Travelers 1st Choice+[®]

**DESIGN PROFESSIONALS LIABILITY COVERAGE
DECLARATIONS**

POLICY NO. 108040737

Travelers Casualty and Surety Company of America
Hartford, Connecticut
(A Stock Insurance Company, herein called the Company)

Important note: This is a claims-made policy. To be covered, a claim must be first made against an insured during the policy period or any applicable extended reporting period.

This policy is composed of the Declarations, the Professional Liability Coverage, the Professional Liability Terms and Conditions, and any endorsements attached thereto.

ITEM 1	NAMED INSURED: SOUTHEASTERN SOIL AND ENVIRONMENTAL ASSOCIATES DBA: Principal Address: PO BOX 9321 FAYETTEVILLE, NC 28311-9084
ITEM 2	POLICY PERIOD: Inception Date: May 1, 2025 Expiration Date: May 1, 2026 12:01 A.M. standard time both dates at the Principal Address stated in ITEM 1.
ITEM 3	ALL NOTICES PURSUANT TO THE POLICY MUST BE SENT TO THE COMPANY BY EMAIL, FACSIMILE, OR MAIL AS SET FORTH BELOW: Email: BSIclaims@travelers.com Fax: 1-888-460-6622 Mail: Travelers Bond & Specialty Insurance Claim P.O. Box 2989 Hartford, CT 06104-2989 Overnight Mail: Travelers Bond & Specialty Insurance Claim One Tower Square, MN06 Hartford, CT 06183 For questions related to claim reporting or handling, please call 1-800-842-8496.

