



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: 910-483-0796 Email: kevinshortridge@gmail.com

Authorized Onsite Wastewater Evaluator Information:

Name: John Kase Certification #: 10060E

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

Phone: 910-539-5439 Email: john@southeasternsoil.com



Site Location Information:

Site address: 322 Black Duck Lane, Lillington, NC 27546

Tax parcel identification number or subdivision lot, block number of property: _____

Parcel # 010527001240 Ducks Landing S/D Lot 85 County: Harnett

System Information:

Wastewater System Type: 1lb-Accepted Trenches with 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 2 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 2 day of June, 2030.

Signature of Authorized Onsite Wastewater Evaluator: John Kase

Certification signed by John Kase
On: 06/01/2025, 10:11 AM
Date: 2025-06-01 10:11 AM

Signature of Owner or Legal Representative: _____

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

May 31, 2025

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

Re: Soil/site evaluation for subsurface waste disposal (GS 130A-335(A2)/SL 2022-11), 322 Black Duck Lane, Lillington, NC 27546, Parcel Number 01027001240, Lot 85, Ducks Landing Subdivision, 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 "Laws and Rules for Wastewater Treatment and Dispersal Systems, 15A NCAC 18E". **This LSS evaluation is being submitted to meet the requirements of GS 130A-335(a2)/SL 2022-11.**

The soil evaluation was completed on May 30, 2025. Hand auger borings were advanced under moist soil conditions. The site essentially lies on a linear slope landscape (2% slope). Soil borings conducted in most of this area consisted of 20 or more inches of loamy sand/sandy loam underlain by clay loam to 48 or more inches below the soil surface. Soil wetness and/or parent material (greater than 50%) was not observed shallower than 31 inches below the soil surface in the initial system and 26 inches in the 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 gravity flow with serial distribution to Accepted 25% reduction subsurface waste disposal drainfield (0.4 gal/day/ft² LTAR; initial system). There is enough suitable soil area to allow for gravity flow with serial distribution to Accepted 25% reduction subsurface subsurface septic system repair (0.4 gal/day/ft²). A map showing the approximate location of the site and proposed septic layout accompanies this report. If gravity flow cannot be achieved then a design revision may be required for a pump system. **[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

- Initial System: Gravity flow with serial distribution with Accepted 25% Reduction Trenches (300', see septic layout detail)
- 480 gal/day flow rate (4BR)
- 18" maximum trench depth as measured on the downhill side
- 0.4 gpd/ft² LTAR
- 1000-gallon septic pump tank (**certified watertight**)
- Repair System: Gravity flow with serial distribution with Accepted 25% Reduction Trenches (300', see septic layout design detail)
- 13" maximum trench depth as measured on the downhill side
- 0.4 gpd/ft² LTAR
- At time repair is needed, greater than 6" soil cover required over entire field and shall extend 5' beyond edge of trenches
- 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

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.

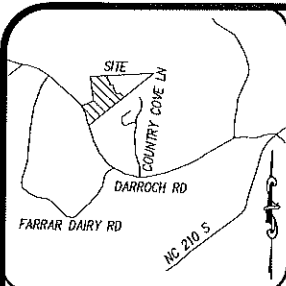
Sincerely,

John Kase

NC Licensed Soil Scientist #1323

NC Authorized Wastewater Evaluator #10060E

NC REHS #1785



VICINITY MAP (NTS)

LEGEND:

EIP - EXISTING IRON PIPE
 EIB - EXISTING IRON BAR
 BEIP - BENT IRON PIPE
 BEIB - BENT IRON BAR
 C4 - CONCRETE MONUMENT
 NIP - NEW IRON PIPE SET
 CATV - CABLE TV BOX
 EB - ELECTRIC BOX
 TEL - TELEPHONE PEDESTAL
 PP - POWER POLE
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 SW - SIDEWALK
 PO - PORCH
 N/F - NOW OR FORMERLY
 CWD - COVERED
 CB - CATCH BASIN
 EOP - EDGE OF PAVEMENT
 BOC - BACK OF CURB

NOTES:

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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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IMPERVIOUS SURFACE TABLE

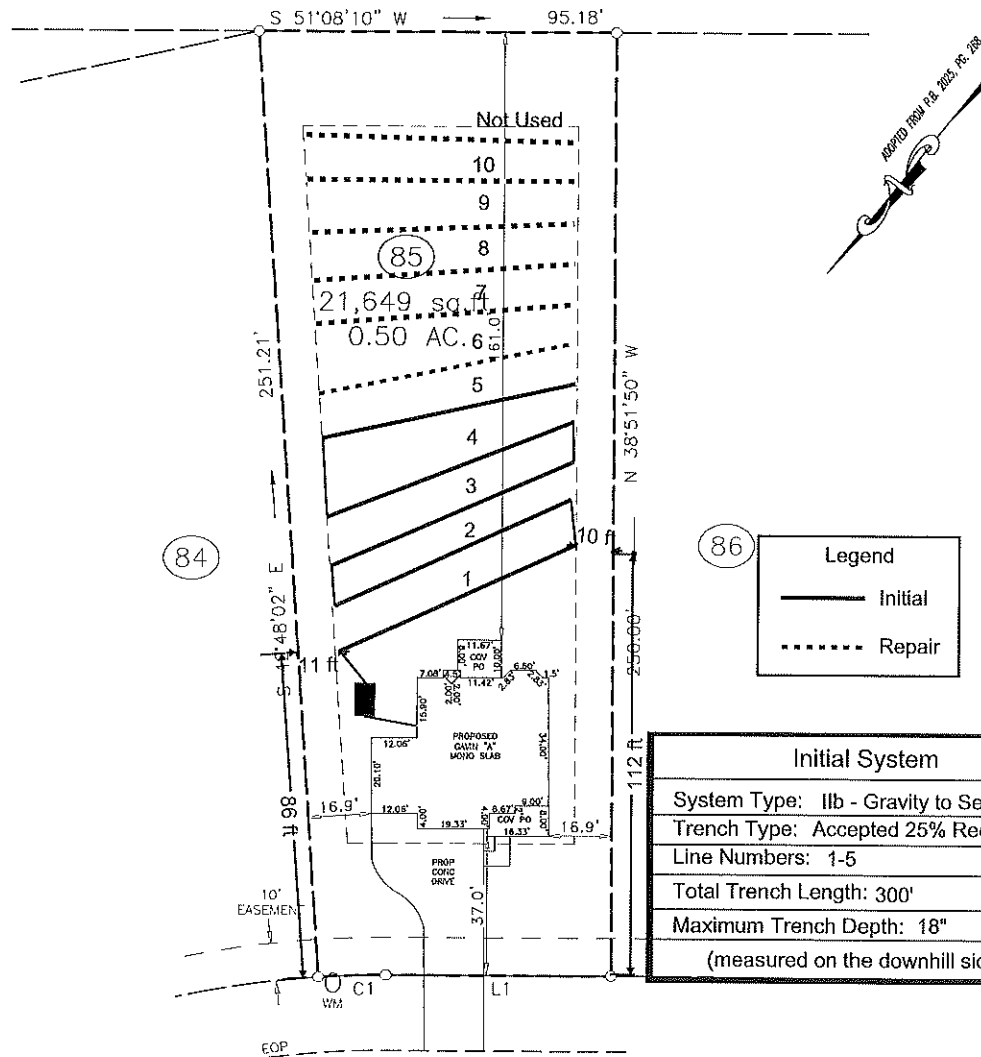
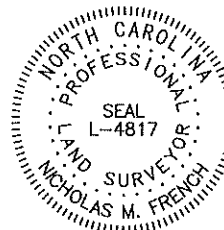
HOUSE	1,816 S.F.
DRIVEWAY	906 S.F.
SIDEWALKS	44 S.F.
TOTAL IMPERVIOUS AREA	2,766 S.F.

SETBACKS:

P.B. 2025, PG. 268	
FRONT	35'
SIDE	10'
REAR	25'
SIDE STREET	20'

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	260.00'	17.87'	17.86'	N 49°10'04" E
LINE	BEARING	DISTANCE		
L1	N 51°08'10" E	60.09'		

WERTZ, DAVID LEE &
 SHOLLY, RONALD SCOTT JT W/ROS
 PIN 0527-60-0309
 DB 395 PG 34
 RA-20R ZONING



GRAPHIC SCALE



1 INCH = 40 FT.

BLACK DUCK LANE

60' PUBLIC R/W

PRELIMINARY

STAGE

PROJECT: DUCKS LANDING
 DRAWN BY: VHH
 SURVEYED BY:
 FIELD WORK:
 DWG DATE: 05-16-2026

PLOT PLAN
 FOR
JSJ BUILDERS
 BLACK DUCK LANE
 LOT 85 DUCKS LANDING SUBDIVISION
 ANDERSON CREEK TWP., HARNETT CO., NC
 P.B. 2025, PG. 268



ECLS
 GLOBAL, INC.
 U.S. VETERAN-OWNED
 19 N. MCKINLEY ST
 DOATS, NC 27521
 910.897.3257 ECLS@GLOBALINC.COM
 910.897.2329 (FAX) CO#6-4175

SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOC., INC.

PROPOSED SUBSURFACE WASTE DISPOSAL SYSTEM DETAIL SHEET

SUBDIVISION: Ducks Landing

LOT 85

INITIAL SYSTEM: Accepted 25% Reduction

REPAIR: Accepted 25% Reduction

DISTRIBUTION: Gravity Serial

DISTRIBUTION Gravity Serial

BENCHMARK: 100.0

LOCATION H2O METER 1.1

NO. BEDROOMS: 4

LTAR 0.4 gpd/ft^2

SEPTIC TANK SIZE 1000 Gallons

PUMP TANK SIZE N/A

LINE	FLAG COLOR	ELEVATION(FT)	LENGTH(FT)
1	Pink	93.4	68
2	Blue	93	69
3	Green	92.6	70
4	Red	91.4	69
5	White	91.4	71
			Total- 347
6	Pink	90.8	71
7	Blue	90.3	72
8	Green	89.9	72
9	Red	89.6	73
10	White	89.1	74
11	Pink	88.6	Not Used

BY John Kase

DATE 5/30/2025

TYPICAL PROFILE

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

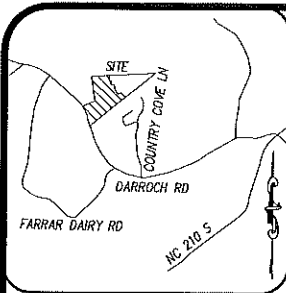
0-20	SL -GR	VFR/NS/NP
20-31	CL - SBK	FR/SS/P
31	10YR7/2	

HEALTH DEPARTMENT USE ONLY.
DESIGNS DO NOT GURANTEE FUNCTIONALITY

0-20	SL - GR	VFR/NS/NP
20-26	CL - SBK	FR/SS/P
26	10YR7/2	

SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOCIATES, INC.			SOIL/SITE EVALUATION SHEET				Sheet #:		1	
OWNER/APP. NAME:			JSJ Builders Inc.			SUBDIV./LOT#		Ducks Landing Lot 85		
LOCATION OF SITE:			322 Black Duck Lane, Lillington							
COUNTY:			Harnett		PROPERTY ID #:		#010527001240		DATE EVALUATED:	
PROPOSED FACILITY:			SFR		PROPOSED DESIGN FLOW (.0400):		480 GPD		PROPERTY SIZE	
WATER SUPPLY:			Public		WATER SUPPLY SETBACK:		10'		0.5 ac	
TYPE OF WASTEWATER:			Domestic			EVALUATION METHOD:			Auger	
P R O F I L E #	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY		OTHER PROFILE FACTORS				.0509 PROFILE CLASS & LTAR	
			.0503 STRUCTURE/ TEXTURE	.0503 CONSISTENCE/ MINERALOGY	.0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZ		
1		0-32	SL-GR	VFR/NS/NP		48	NOT OBSER VED	NOT OBSER VED	S - 0.4	
	L	32-48	CL-SBKm	FR/SS/P						
	1%									
	.0502(d) SLOPE CORRECTION									
	0.4"									
2		0-31	SL-GR	VFR/NS/NP			N.O.	N.O.	S - 0.5	
	L	31	CL - SBK	FR/SS/P	10YR7/2					
	1%									
	.0502(d) SLOPE CORRECTION									
	0.4"									
3		0-10	SL-GR	VFR/NS/NP			N.O.	N.O.	S-0.4	
	L	10-18	SCL-SBK	FRIABLE/SS/SP						
	1%	18-26	CL - SBK	FRIABLE/S/P						
	.0502(d) SLOPE CORRECTION	26	10YR6/1							
	0.4"									
4		0-20	SL-GR	VFR/NS/NP			N.O.	N.O.	S-0.4	
	L	20-26	CL-SBK	FRIABLE/SS/P						
	2%	26	CL - SBK	FRIABLE/SS/P	10YR7/2					
	.0502(d) SLOPE CORRECTION									
	0.4"									
DESCRIPTION:		INITIAL SYSTEM	REPAIR SYSTEM	SITE CLASSIFICATION (.0509):		Suitable				
Available Space		Suitable	Suitable	EVALUATED BY:		John Kase				
System Type(s):		25% Reduction	25% Reduction	OTHER(S) PRESENT:						
Site LTAR:		0.400	0.400							
Maximum Trench		18"	13"							
Saprolite System:		No	No							
Comments:		Trench bottoms depth measure on downslope side of trench..								

SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOCIATES, INC.			SOIL/SITE EVALUATION SHEET				Project #:		0		
							Sheet #:		2		
OWNER/APP. NAME:		JSJ Builders Inc.			SUBDIV./LOT#		Ducks Landing Lot 85				
LOCATION OF SITE :		322 Black Duck Lane, Lillington									
COUNTY:		Harnett		PROPERTY ID #:		#010527001240		DATE EVALUATED:		5/30/2025	
PROPOSED FACILITY		SFR		PROPOSED DESIGN FLOW (.400):		480 GPD		PROPERTY SIZE		0.5 ac	
WATER SUPPLY:		Public			WATER SUPPLY SETBACK:		10'				
TYPE OF WASTEWATER:			Domestic			EVALUATION METHOD:			Auger		
P R O F I L E #	.502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.503)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR		
			.503 STRUCTURE/ TEXTURE	.503 CONSISTENCE / MINERALOGY	.504 SOIL WETNESS/ COLOR	.505 SOIL DEPTH	.506 SAPRO CLASS	.507 RESTR HORIZ			
5		0-30	SL-GR	VFR/NS/NP		48	N.O.	N.O.	S-0.5		
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Comments:											



VICINITY MAP (NTS)

LEGEND:

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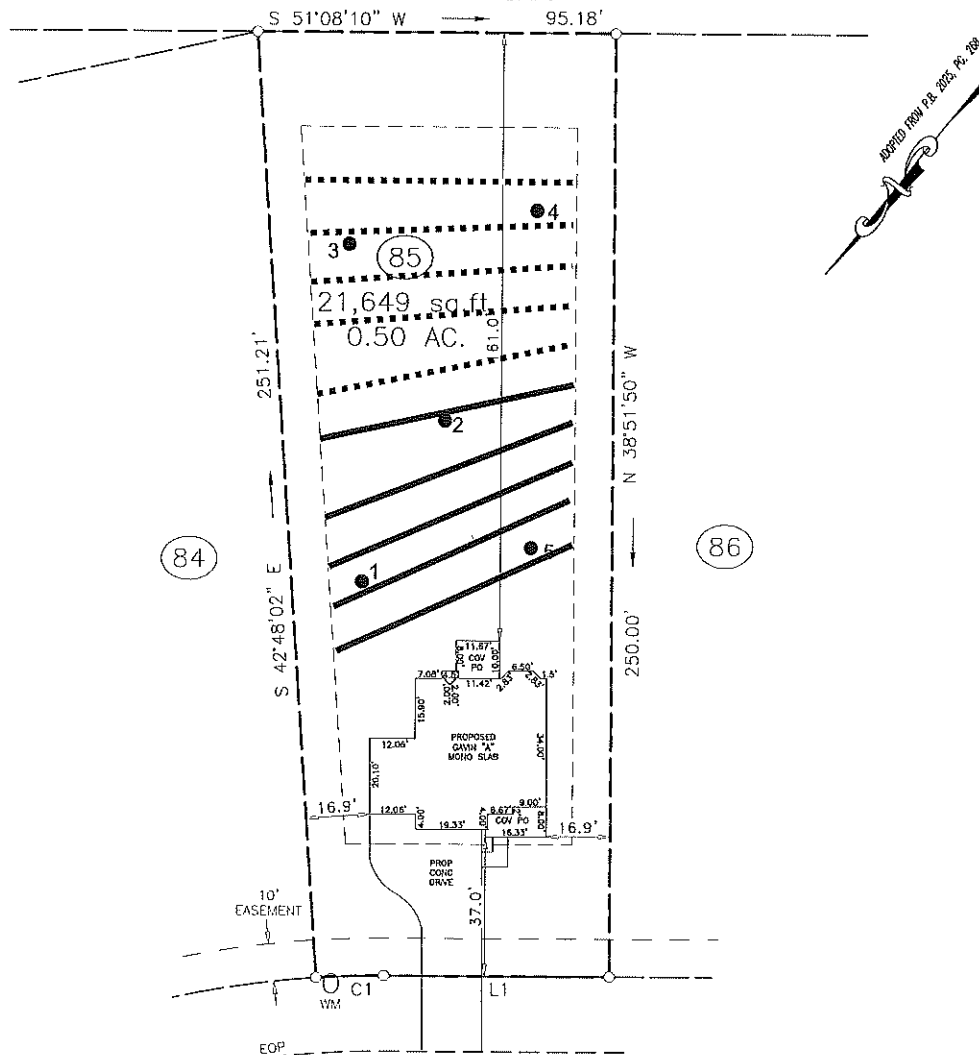
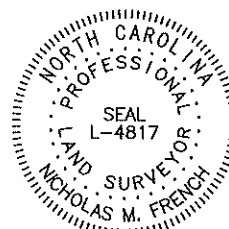
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WERTZ, DAVID LEE &
 SHOLLY, RONALD SCOTT JT W/ROS
 PI# 0527-60-0309
 DB 395 PG 34
 RA-20R ZONING



GRAPHIC SCALE



1 INCH = 40 FT.

BLACK DUCK LANE
 60' PUBLIC R/W

PRELIMINARY

STAGE

PROJECT: DUCKS LANDING
 DRAWN BY: VIH
 SURVEYED BY:
 FIELD WORK:
 DWG DATE: 05-16-2026

PLOT PLAN
 FOR
JSJ BUILDERS
 BLACK DUCK LANE
 LOT 85 DUCKS LANDING SUBDIVISION
 ANDERSON CREEK TWP., HARNETT CO., NC
 P.B. 2025, PG. 268



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