



NC DEPARTMENT OF
**HEALTH AND
HUMAN SERVICES**

ROY COOPER • Governor

KODY H. KINSLEY • Secretary

MARK BENTON • Deputy Secretary for Health

SUSAN KANSAGRA • Assistant Secretary for Public Health

Division of Public Health

Application for Services

This application, in conjunction with the common form established in G.S. 130A-335(a3) and (a5), is optional for local health departments to be used for applications submitted in accordance with G.S. 130A-335(a2), (a3), and (a5).

[hereinafter, G.S. 130A-335(a3) and (a5) permits referred to as (a2) Improvement Permit and (a2) Construction Authorization]

Applying for:

☒ (a2) Improvement Permit ☒ (a2) Construction Authorization ☐ (a2) Repair/Construction Authorization

Please check one of the following:

☒ New Construction ☐ Expansion ☐ System Relocation ☐ Change of Use ☐ Repair

☒ 5 Year Expiration Requested (site plan provided)

☐ Non-Expiring Permit Requested (plat provided, as defined in G.S. 130A-334(7a))

LOT 67

Property Owner Name: Clayton Properties Group

Property Owner Mailing Address: 2521 Schieffelin Rd., Suite 116, Apex, NC 27502

Property Owner Phone Number: 919-548-9381

Property Owner Email Address: MBURBANO2MUNGO.COM

Applicant Name: Same

Applicant Mailing Address: _____

Applicant Phone Number: _____

Applicant Email Address: _____

Does the property include, or is subject to, any of the following:

☐ Yes ☒ No Previously identified jurisdictional wetlands

☐ Yes ☒ No Existing or proposed easements, rights-of-way, encroachments, or other areas subject to legal restrictions

☐ Yes ☒ No Approval by other public agencies

A site plan or plat is required, **OR** the site sketch submitted from the LSS/AOWE, must include the following:

(A) existing and proposed facilities, structures, appurtenances, and wastewater systems

(B) proposed wastewater system showing setbacks to property line(s) or other fixed reference point(s)

(C) existing and proposed vehicular traffic areas

(D) existing and proposed water supplies, wells, springs, and water lines; and

(E) surface water, drainage features, and all existing and proposed artificial drainage, as applicable.

Requesting DHHS review: ☐ Yes ☒ No

I understand that the documentation and fees, as required in G.S. 130A-335(a2), (a3), (a5), and (a6), attached to this application are to be used to issue an Improvement Permit and/or Construction Authorization pursuant to G.S. 130A-335(a2), (a3), and (a5). I understand that authorized county and state officials are granted right of entry to the property indicated on this application to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that if the information in the application for an Improvements Permit and/or Construction Authorization is falsified, changed, or the site is altered, then the Improvement Permit and Construction Authorization shall become invalid.

Applicant Signature: _____ Date: _____

Owner's Signature: _____ Date: _____

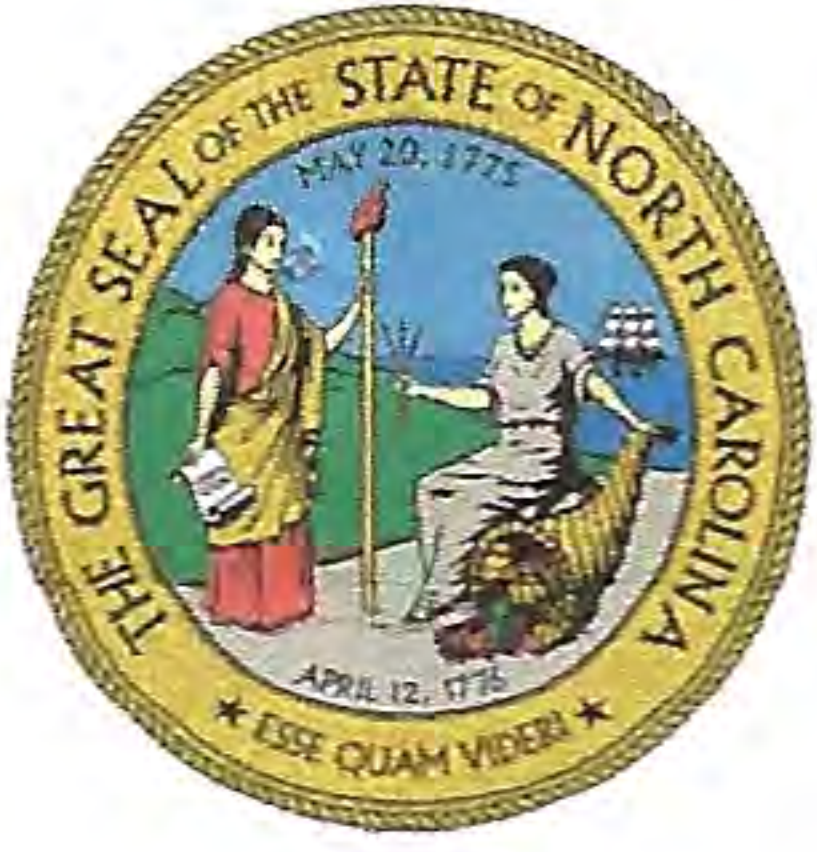
NC DEPARTMENT OF HEALTH AND HUMAN SERVICES • DIVISION OF PUBLIC HEALTH

LOCATION: 5605 Six Forks Road, Building 3, Raleigh, NC 27609

MAILING ADDRESS: 1632 Mail Service Center, Raleigh, NC 27699-1632

www.ncdhhs.gov • TEL: 919-707-5854 • FAX: 919-845-3972

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER



NC DEPARTMENT OF
**HEALTH AND
HUMAN SERVICES**

ROY COOPER • Governor

KODY H. KINSLEY • Secretary

MARK BENTON • Chief Deputy Secretary for Health

SUSAN KANSAGRA • Assistant Secretary for Public Health

Division of Public Health

Submittal Includes: ☒ (a2) Improvement Permit ☒ (a2) Construction Authorization ☐ Fee \$ _____

IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)

County: Harnett

PIN/Lot Identifier: 0538-79-8566.000

Issued To: Clayton Properties Group, 2521 Schieffelin Rd., Suite 116, Apex, NC 27502

Property Location: 138 Harriette Ct., Lillington, NC 27546

Subdivision (if applicable) Leander Lee Preserve Lot #: 67 Block: _____ Section: _____

LSS Report Provided: Yes ☒ No ☐

If yes, name and license number of LSS: Michael D. Eaker, 1030

New ☒

Expansion ☐

System Relocation ☐

Change of Use ☐

Facility Type: Single Family Dwelling

Number of bedrooms: 4 Number of Occupants: 8 or less Other: _____

Design Wastewater Strength: ☒ Domestic

☐ High Strength

☐ Industrial Process Wastewater

Proposed Design Daily Flow: 480 GPD

Proposed LTAR (Initial): 0.30 gpd/ft²

Proposed LTAR (Repair): 0.30 gpd/ft²

Proposed Wastewater System Type*: Pump to Accepted (25% reduction) (Initial) Pump Required: ☒ Yes ☐ No ☐ May be required

Proposed Wastewater System Type*: Pump to Accepted (25% reduction) (Repair) Pump Required: ☒ Yes ☐ No ☐ May be required

**Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII*

Effluent Standard: ☒ DSE ☐ HSE ☐ NSF/ANSI 40 ☐ TS-I ☐ TS-II ☐ RCW

Saprolite System (Initial): ☐ Yes ☒ No

Saprolite System (Repair): ☐ Yes ☒ No

Fill System (Initial): ☐ Yes ☒ No If yes, specify: ☐ New ☐ Existing (when adding more than 6 inches of fill to system area provide a fill plan)

Fill System (Repair): ☐ Yes ☒ No If yes, specify: ☐ New ☐ Existing (when adding more than 6 inches of fill to system area provide a fill plan)

Usable Depth to LC (Initial)*: 26" Usable Depth to LC (Repair)*: 29" ** Limiting Condition*

Max. Trench Depth (Initial)*: 13" Max. Trench Depth (Repair)*: 15" ** Measured on the downhill side of the trench*

Artificial Drainage Required: ☐ Yes ☒ No If yes, please specify details: _____

Type of Water Supply: ☐ Private well ☐ Public well ☐ Shared well ☒ Municipal Supply ☐ Spring ☐ Other: _____

Drainfield location meets requirements of Rule .0508: Yes ☒ No ☐ Drainfield location meets requirements of Rule .0601: Yes ☒ No ☐

Permit valid for: ☒ Five years [site plan submitted pursuant to GS 130A-334(13a)] ☐ No expiration [plat submitted pursuant to GS 130A-334(7a)]

Permit conditions:

Install as per detail sheet and map. Do not disturb, compact, rut or cut any soil within the proposed drainfield area.

Add 6 inches approved fill cover is maintained over system after installation.



Licensed Soil Scientist Print Name: Michael D. Eaker

Licensed Soil Scientist Signature: [Signature]

Date: 05/23/2025

The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).

**See attached site sketch*



This Section for Local Health Department Use Only

Initial submittal received: _____ by _____
Date Initials

G.S. 130A-335(a3) states the following:

When an applicant for an Improvement Permit submits to a local health department an Improvement Permit application, the permit fee charged by the local health department, the common form developed by the Department, and a soil evaluation pursuant to subsection (a2) of this section, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Improvement Permit includes all of the required components. If the local health department determines that the Improvement Permit is incomplete, the local health department shall notify the applicant of the components needed to complete the Improvement Permit. The applicant may submit additional information to the local health department to cure the deficiencies in the Improvement Permit. The local health department shall make a final determination as to whether the Improvement Permit is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The Department shall develop a common form for use as the Improvement Permit.

The review for completeness of this Improvement Permit was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be:

☐ Incomplete (If box is checked, information in this section is required.)

The following items are missing:

Copies of this were sent to the LSS and the Applicant on _____
Date

State Authorized Agent: _____ Date: _____

☐ Complete

State Authorized Agent: _____ Date: _____

This Improvement Permit is issued pursuant to G.S. 130A-335 (a2) and (a3) using the signed and sealed LSS/LG evaluation(s) attached here. The issuance of this permit in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. **This permit is subject to revocation if the site plan, plat, or the intended use changes.** The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of 15A NCAC 18E and to the conditions of this permit.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to evaluations, submittals, or actions from a licensed soil scientist or licensed geologist pursuant to GS 130A-335(a2).

Improvement Permit Expiration Date: _____

See attached site sketch



Re-submittal of Improvement Permit

LHD USE ONLY: This IP resubmittal received: _____ by _____
Date *Initials*

The following items are being resubmitted pursuant to G.S. 130A-335(a3) for issuance of the Improvement Permit:

I, _____ hereby attest that the information required to be included with this re-submittal
Licensed Soil Scientist (Print Name)
is accurate and complete to the best of my knowledge and that the proposed Improvement Permit meets all applicable federal, State, and local laws, regulations, rules, and ordinances.

Signature of Licensed Soil Scientist

Date

The section below is for Local Health Department use after submittal of items noted as missing above.

LHD Follow-up Completeness Review of Improvement Permit

The review for completeness of this Improvement Permit re-submittal was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be:

☐ Incomplete (If box is checked, information in this section is required.)

The following items are missing:

Copies of this were sent to the LSS and the Applicant on _____
Date

State Authorized Agent: _____ Date: _____

☐ Complete

State Authorized Agent: _____ Date: _____

CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)

County: Harnett

Pre-Construction Conference Required: Yes ☐ No ☒

PIN/Lot Identifier: 0538-79-8566.000 - Leander Lee Preserve Lot 67

Issued To: Clayton Properties Group, 2521 Schieffelin Rd., Suite 116, Apex, NC 27502

Property Location: 138 Harriette Ct., Lillington, NC 27546

AOWE/PE Plans/Evaluations Provided: Yes ☒ No ☐ If yes, name and license number of AOWE/PE: Michael D. Eaker 10013E

Facility Type: Single Family Dwelling

Number of bedrooms: 4 Number of Occupants: 8 or less Other: _____

☒ New ☐ Expansion ☐ Repair ☐ System Relocation ☐ Change of Use

Basement? ☐ Yes ☒ No Basement Fixtures? ☐ Yes ☐ No

Crawl Space? ☐ Yes ☒ No Slab Foundation? ☒ Yes ☐ No

Type of Wastewater System* Pump to Accepted (25% reduction) (Initial) Pump to Accepted (25% reduction) (Repair)

**Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII*

Design Daily Flow: 480 GPD Wastewater Strength: ☒ Domestic ☐ High Strength ☐ Industrial Process WW

Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? ☐ Yes ☐ No
(if yes, please provide engineering documentation)

Effluent Standard: ☒ DSE ☐ HSE ☐ NSF/ANSI 40 ☐ TS-I ☐ TS-II ☐ RCW

Type of Water Supply: ☐ Private well ☐ Public well ☐ Shared well ☒ Municipal Supply ☐ Spring ☐ Other: _____

Installation Requirements/Conditions

Septic Tank Size: 1000 gallons Total Trench/Bed Length: 405 feet Trench/Bed Spacing: 9 feet on center

Trench/Bed Width: 36 inches LTAR: 0.30 gpd/ft² Usable Depth to LC (Initial)*: 26" **Limiting condition*

Soil Cover: 6+ inches Slope Corrected Maximum Trench/Bed Depth*: 13 inches ** Measured on the downhill side of the trench*

Pump Tank Size (if applicable): 1000 gallons Requires more than 1 pump? ☐ Yes ☒ No

Pump Requirements: 13.04 ft. TDH vs. 45.88 GPM Grease Trap Size (if applicable): _____ gallons

Distribution Method: ☐ Serial ☐ D-Box or Parallel ☒ Pressure Manifold(s) ☐ LPP ☐ Other: _____

Artificial Drainage Required: Yes ☐ No ☒ If yes, please specify details: _____

Legal Agreements (If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)

Multi-party Agreement Required [.0204(g)]: ☐ Yes ☒ No Declaration of Restrictive Covenants: ☐ Yes ☒ No

Easement, Right-of-Way, or Encroachment Agreement Required [.0301(b)]: ☐ Yes ☒ No

Management Entity Required: ☐ Yes ☒ No Minimum O&M Requirements: _____

Permit conditions:

Install as per detail sheet and map. Do not disturb, compact, rut or cut any soil within the septic drainfield area.

Ensure 6 inches approved fill cover is maintained over system after installation.



The requirements of 15A NCAC 18E are incorporated by reference into this permit and shall be met. Systems shall be installed in accordance with the attached site sketch. This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of 15A NCAC 18E, or 15A NCAC 18A .1900, as applicable, and to the conditions of this permit.

AOWE/PE Print Name: Michael D. Eaker

AOWE/PE Signature: [Signature] Date: 05/23/2025

This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).

See attached site sketch



This Section for Local Health Department Use Only

Initial submittal received: _____ by _____
Date Initials

G.S. 130A-335(a5) states the following:

When an applicant for a Construction Authorization, or an Improvement Permit and Construction Authorization together, submits a Construction Authorization, or an Improvement Permit and Construction Authorization application together, the permit fee charged by the local health department, the common form developed by the Department, and any necessary signed and sealed plans or evaluations conducted by a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Construction Authorization or Improvement Permit and Construction Authorization includes all of the required components. If the local health department determines that the Construction Authorization or Improvement Permit and Construction Authorization is incomplete, the local health department shall notify the applicant of the components needed to complete the Construction Authorization or Improvement Permit and Construction Authorization. The applicant may submit additional information to the local health department to cure the deficiencies in the Construction Authorization or Improvement Permit and Construction Authorization. The local health department shall make a final determination as to whether the Construction Authorization or Improvement Permit and Construction Authorization is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The applicant may apply for the building permit for the project upon the decision of completeness of the Construction Authorization or Improvement Permit and Construction Authorization by the local health department or if the local health department fails to act within five business days. The Authorized On-Site Wastewater Evaluator or licensed engineer submitting the evaluation pursuant to this subsection may request that the local health department revoke or suspend the Construction Authorization or Improvement Permit and Construction Authorization for cause. Upon written request of the Authorized On-Site Wastewater Evaluator or licensed engineer, the local health department shall suspend or revoke the Construction Authorization or Improvement Permit and Construction Authorization pursuant to G.S. 130A-23. The Department shall develop a common form for use as the Construction Authorization.

The review for completeness of this Construction Authorization was conducted in accordance with G.S. 130A-335(a5). This Construction Authorization is determined to be:

☐ Incomplete (If box is checked, information in this section is required.)

The following items are missing: _____

Copies of this were sent to the AOWE/PE and the Applicant on _____
Date

State Authorized Agent: _____ Date: _____

☐ Complete

State Authorized Agent: _____ Date of Issuance: _____

This Construction Authorization is issued pursuant to G.S. 130A-335(a2) and (a5) using the signed and sealed plans or evaluations attached here. This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to plans, evaluations, preconstruction conference findings, submittals, or actions from a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), (a5), and (a7). The Department, the Department's authorized agents, and the local health departments shall be responsible and bear liability for their actions and evaluations and other obligations under State law or rule, including the issuance of the operations permit pursuant to GS 130A-337.

Construction Authorization Expiration Date: _____

****See attached site sketch****



Re-submittal of Construction Authorization

LHD USE ONLY: This CA resubmittal received: _____ by _____
Date Initials

The following items are being resubmitted pursuant to G.S. 130A-335(a5) for issuance of the Construction Authorization:

I, _____ hereby attest that the information required to be included with this re-submittal
Authorized Onsite Wastewater Evaluator (Print Name)
is accurate and complete to the best of my knowledge and that the proposed Construction Authorization meets all applicable federal, State, and local laws, regulations, rules, and ordinances.

Signature of Authorized On-Site Wastewater Evaluator

Date

The section below is for Local Health Department use after submittal of items noted as missing above.

LHD Follow-up Completeness Review of Construction Authorization

The review for completeness of this Construction Authorization re-submittal was conducted in accordance with G.S. 130A-335(a5). This Construction Authorization is determined to be:

☐ Incomplete (If box is checked, information in this section is required.)

The following items are missing:

Copies of this were sent to the AOWE/PE and the Applicant on _____
Date

State Authorized Agent: _____ Date: _____

☐ Complete

State Authorized Agent: _____ Date: _____



ADDENDUM TO G.S. 130A-335(a2) SUBMITTAL

County: Harnett

PIN/Lot Identifier: 0538-79-8566.000.000 - Leander Lee Preserve Lot 67

Issued To: Clayton Properties Group, 2521 Schieffelin Rd., Suite 116, Apex, NC 27502

Additional Improvement Permit Conditions:

See attached detail sheet

Additional Construction Authorization Conditions:

See attached detail sheet

Southeastern Soil & Environmental Associates, Inc.

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

May 23, 2025

Clayton Properties Group
2521 Schieffelin Rd.
Apex, NC 27502

Re: Soil/site evaluation for subsurface waste disposal (GS 130A-335(a2)/SL 2022-11),
PIN 0538-79-8566.000, 138 Harriette Ct., Leander Lee Preserve Subdivision, Lot 67,
Lillington, Harnett County, North Carolina

To whom it may concern,

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 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 "On Site Wastewater Rules, 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 21, 2025. Hand auger borings were advanced under moist soil conditions. The site essentially lies on a linear slope landscape (1-2% slope). Soil borings conducted in most of this area consisted of 4 or more inches of loamy sand underlain by sandy loam, sandy clay loam, sandy cly, clay loam and/or clay to 48 or more inches below the soil surface. Soil wetness and/or parent material (greater than 50%) was not observed shallower than 26 inches below the soil surface (initial system) and 29 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 pump to accepted subsurface waste disposal drainfield (0.30 gal/day/ft² LTAR; initial system). There is enough suitable soil area to allow for a pump to an accepted subsurface septic system repair (0.30 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 with **pressure manifold** (405', see septic layout)
- 480 gal/day flow rate (4BR)
- 13" maximum trench depth (initial). Add 6 inches fill over system after install
- 1000-gallon septic and pump tank (**certified watertight**)
- Pump to produce 45.88 gal/min @ 13.04 feet TDH
- Pump dose 184 gallons (9.2-inch drawdown)
- 0.30 gpd/ft² LTAR (initial and repair)
- 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

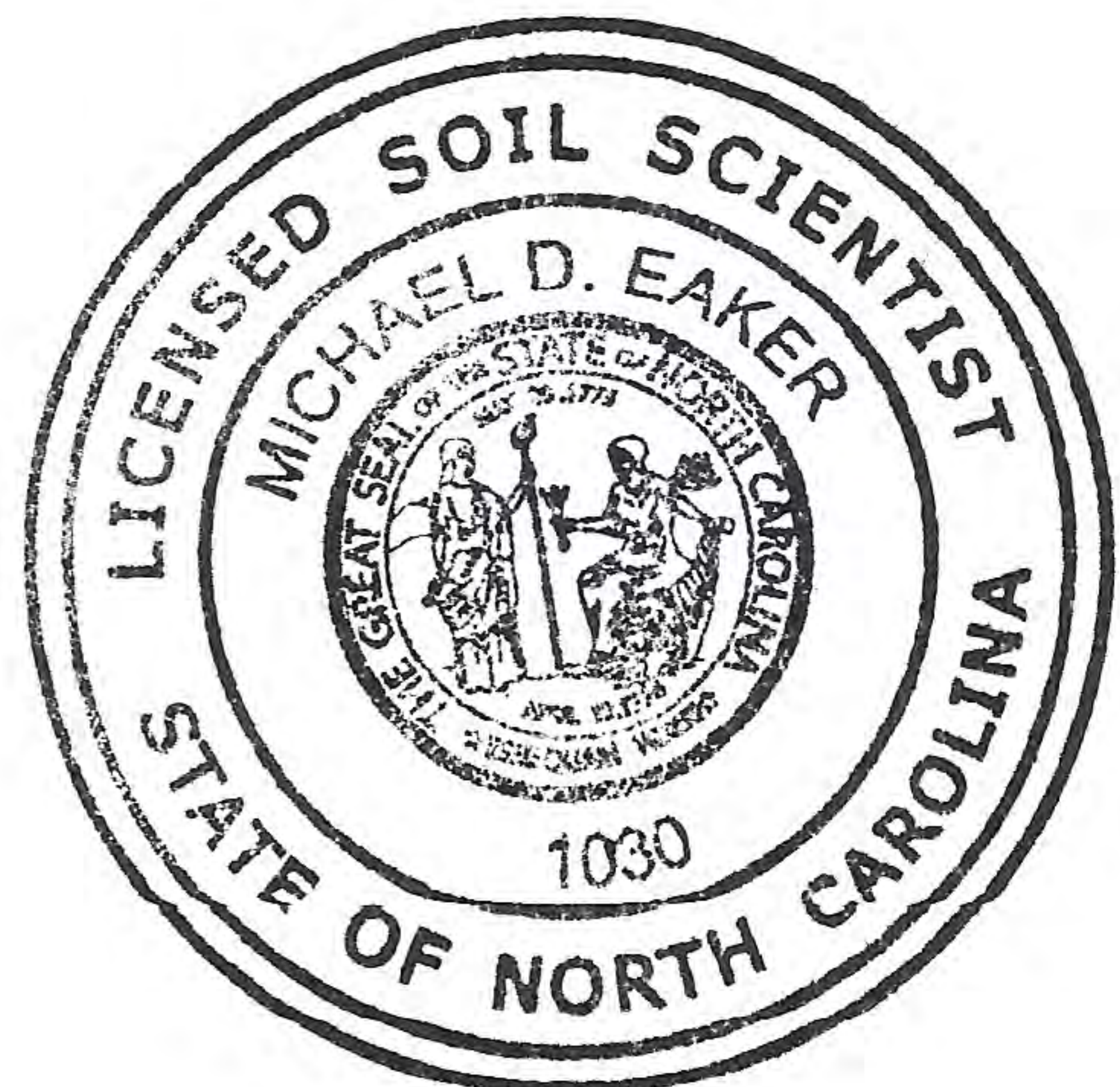
During site construction, it is important not to impact and suitable or provisionally suitable soil areas with activities such as excavation or filling. Only the vegetation should be removed in the areas of the proposed septic drainfields to prevent any disturbance of naturally occurring soil. We recommend 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,



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: Leander Lee

LOT 67

INITIAL SYSTEM: Accepted 25% Reduction

REPAIR: Accepted 25% Reduction

DISTRIBUTION: Pressure Manifold

DISTRIBUTION Pressure Manifold

BENCHMARK: 100.0

LOCATION FC 67/68 (TOP STAKE)

NO. BEDROOMS: 4

LTAR 0.3 gpd/ft2

SEPTIC TANK SIZE 1000 Gallons

PUMP TANK SIZE N/A

	LINE	FLAG COLOR	ELEVATION	LENGTH
Initial	1	P	98.70	50'
	2	L	98.40	85'
	3A	P	98.10	90'
	4A	L	97.80	90'
	5A	P	97.40	90'
				405' TOTAL
Repair	3B	P	98.10	45'
	4B	L	97.80	65'
	5B	P	97.40	65'
	6	P	97.10	110'
	7	L	96.80	80'
	8	P	96.50	50'
				415' TOTAL

BY Mike Eaker

DATE 05/21/25

TYPICAL PROFILE

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

0-4	LS/SL	VFR/GR
4-38+	C/CL	FI/SBK
CR2	29"	

HEALTH DEPARTMENT USE ONLY.
DESIGNS DO NOT GURANTEE FUNCTIONALITY

0-6	LS/SL	VFR/GR
6-38+	C/CL	FI/SBK
CR 2	27"	

Initial

Repair

Initial

Repair

PRELIMINARY PLOT PLAN FOR

MUNGO HOMES

LOT 67, LEANDER LEE PRESERVE SUBDIVISION

138 HARRIETTE COURT

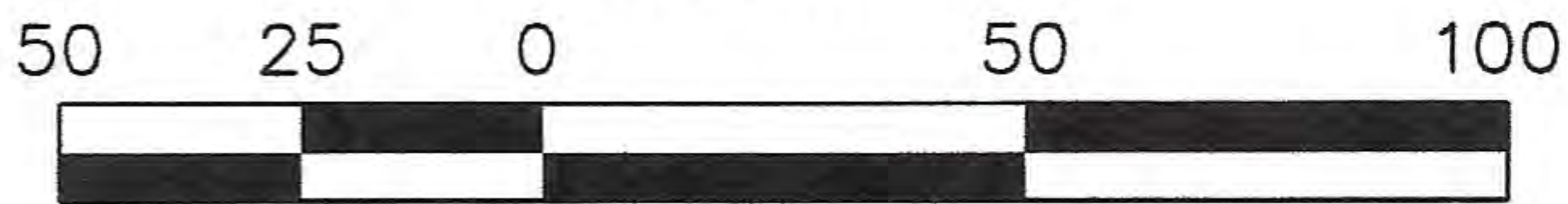
REF: P.B. 2025, PG. 267

LILLINGTON TOWNSHIP

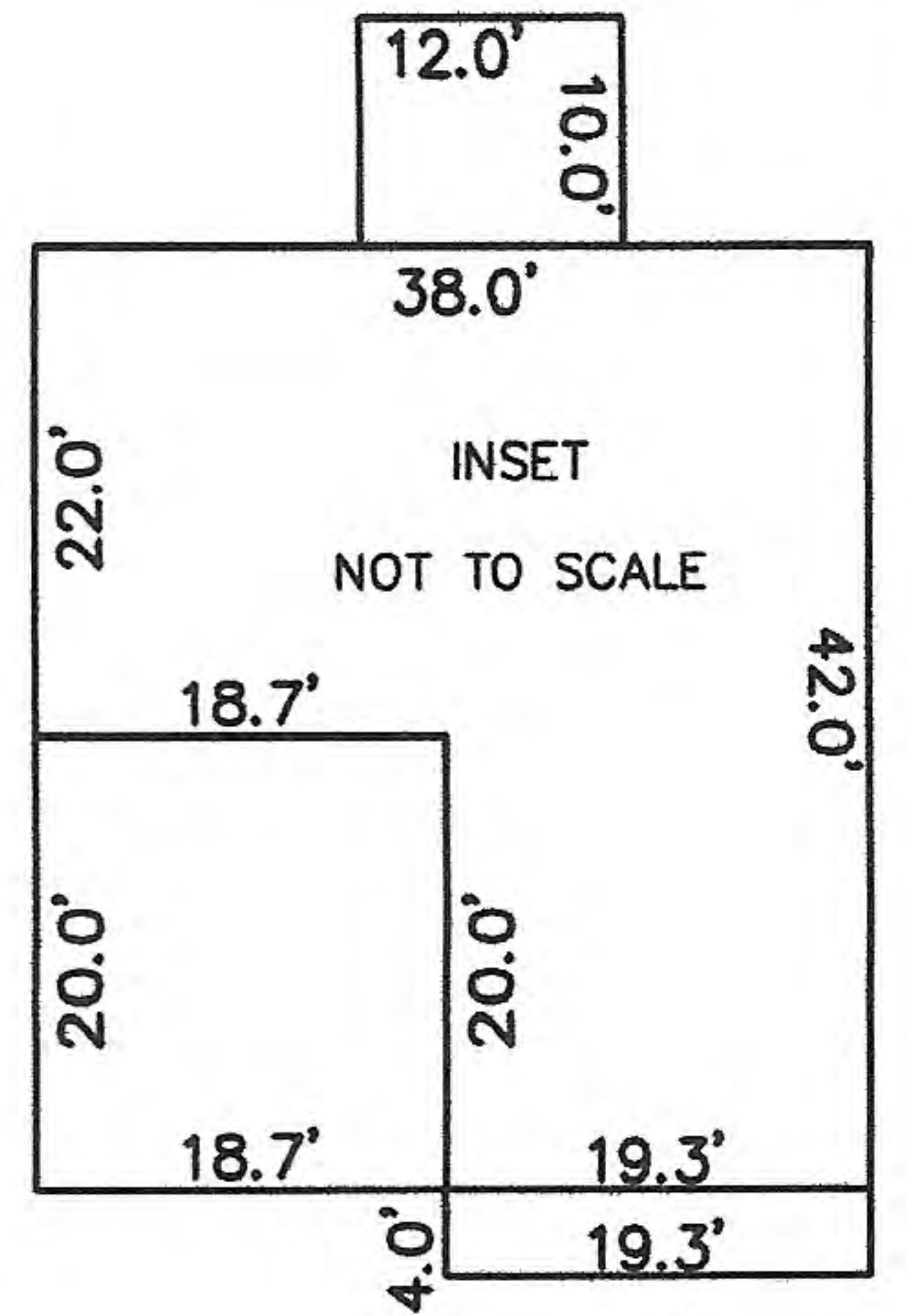
HARNETT COUNTY, NORTH CAROLINA

MAY 12, 2025

ZONED RA-20R



SCALE 1"=50'



SEPTIC & pump TANKS
MUST BE
CERTIFIED
WATER TIGHT

INITIAL SEPTIC
LINES 1, 2, 3A, 4A, 5A
40.5 feet ACCEPTED

MAX TRENCH BOTTOM DEPTH
13 INCHES

ADD 6 INCHES FILL OVER
SYSTEM AFTER INSTALL

68

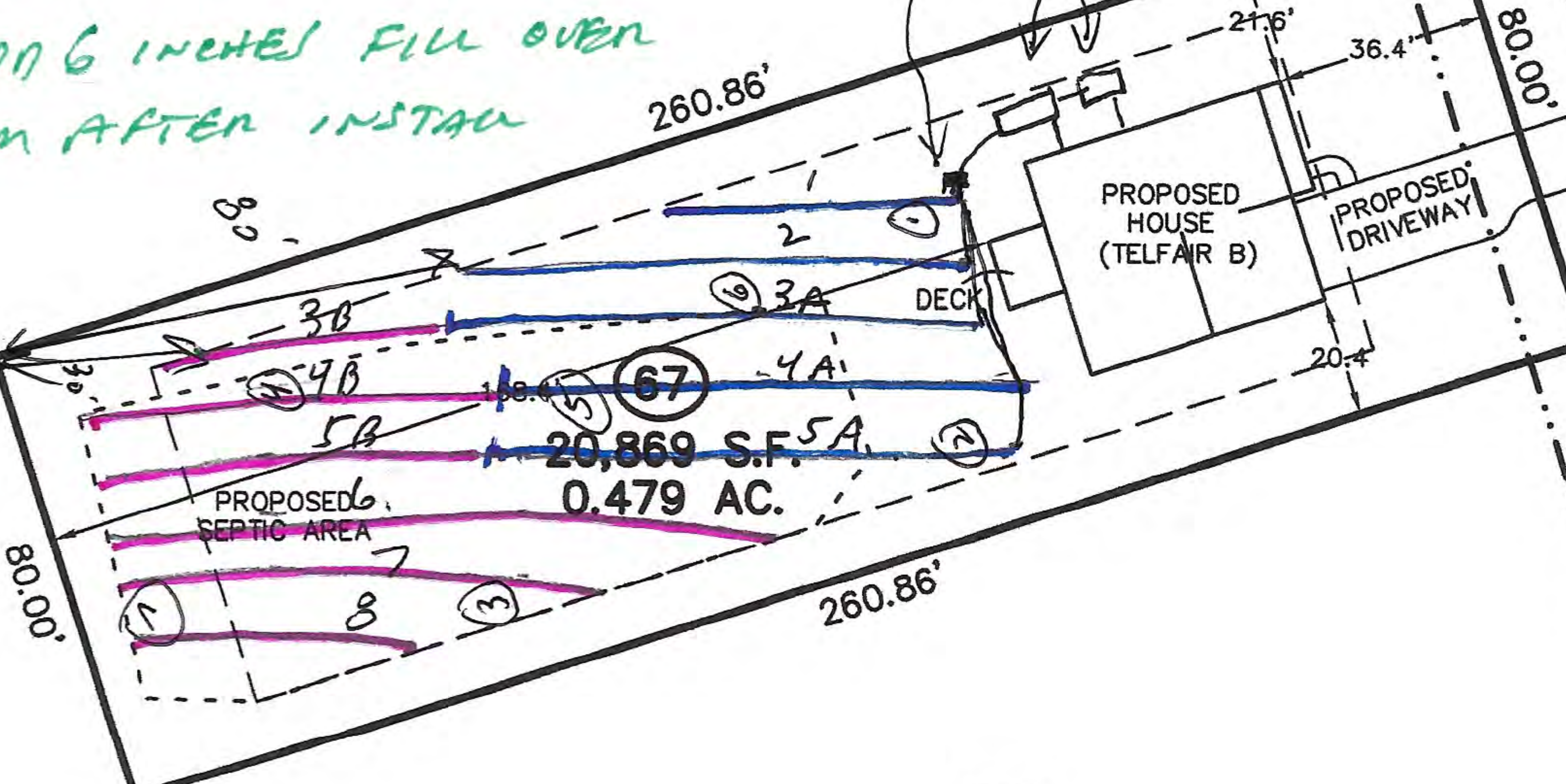
LEANDER LEE PRESERVE
P.B. 2025, PG. 267

pressure
manifold

10' DRAINAGE &
UTILITY EASEMENT

1000 GAL
SEPTIC +
pump TANK

HARRIETTE COURT 50' PUBLIC R/W



67

20,869 S.F. 5A

0.479 AC.

66

LEANDER LEE PRESERVE
P.B. 2025, PG. 267



* PUMP WILL BE REQUIRED *
WITH PRESSURE MANIFOLD

AS MAX TRENCH BOTTOM DEPTH
CANNOT BE
MAINTAINED
BY GRAVITY

TOTAL CONCRETE & LANDSCAPE	
CONCRETE	846 S.F.
LANDSCAPE	19,421 S.F.

IMPERVIOUS SURFACE TABLE

HOUSE

1,673 S.F.

N/E
SENIOR FAMILY REAL ESTATE LLC
AS STEPHENS PLACE OF
KNOWN
PB 2023, PG 581

RESIDENTIAL PRESSURE MANIFOLD DESIGN

Permit # Leander Lee Lot 67

of BDR: 4 Daily Flow: 480 gal/day L.T.A.R.: 0.3000 gal/day/sq.ft

Septic Tank: 1000 gals Pump Tank: 1000 gals Sq. Foot: 1215 System Type: Accepted

Number of Taps: 5 **Length of Trenches:** 405 **ft(See Tap Chart for Details)**

Depth of Trenches: 13 in Manifold Length: 48 in

Manifold Diameter: 4in sch 80pvc **Tap Configuration:** 6 in spacing 1 side(s) of manifold

Supply Line: length: 40 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 5.04 ft(supply line length + 70' for fittings in pump tank)

Design Head: 2 ft **Elevation Head:** 6 ft

Total Head: 13.04 ft **Pump to Deliver:** 45.88 gals/min at 13.04 ft head

Dosing Volume: 184 gals,

Drawdown: 184 gals divided by 20 gals/in = 9.2 inches

Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter is required.

TAP CHART

[illegible]

PRELIMINARY PLOT PLAN FOR

MUNGO HOMES

LOT 67, LEANDER LEE PRESERVE SUBDIVISION

138 HARRIETTE COURT

REF: P.B. 2025, PG. 267

LILLINGTON TOWNSHIP

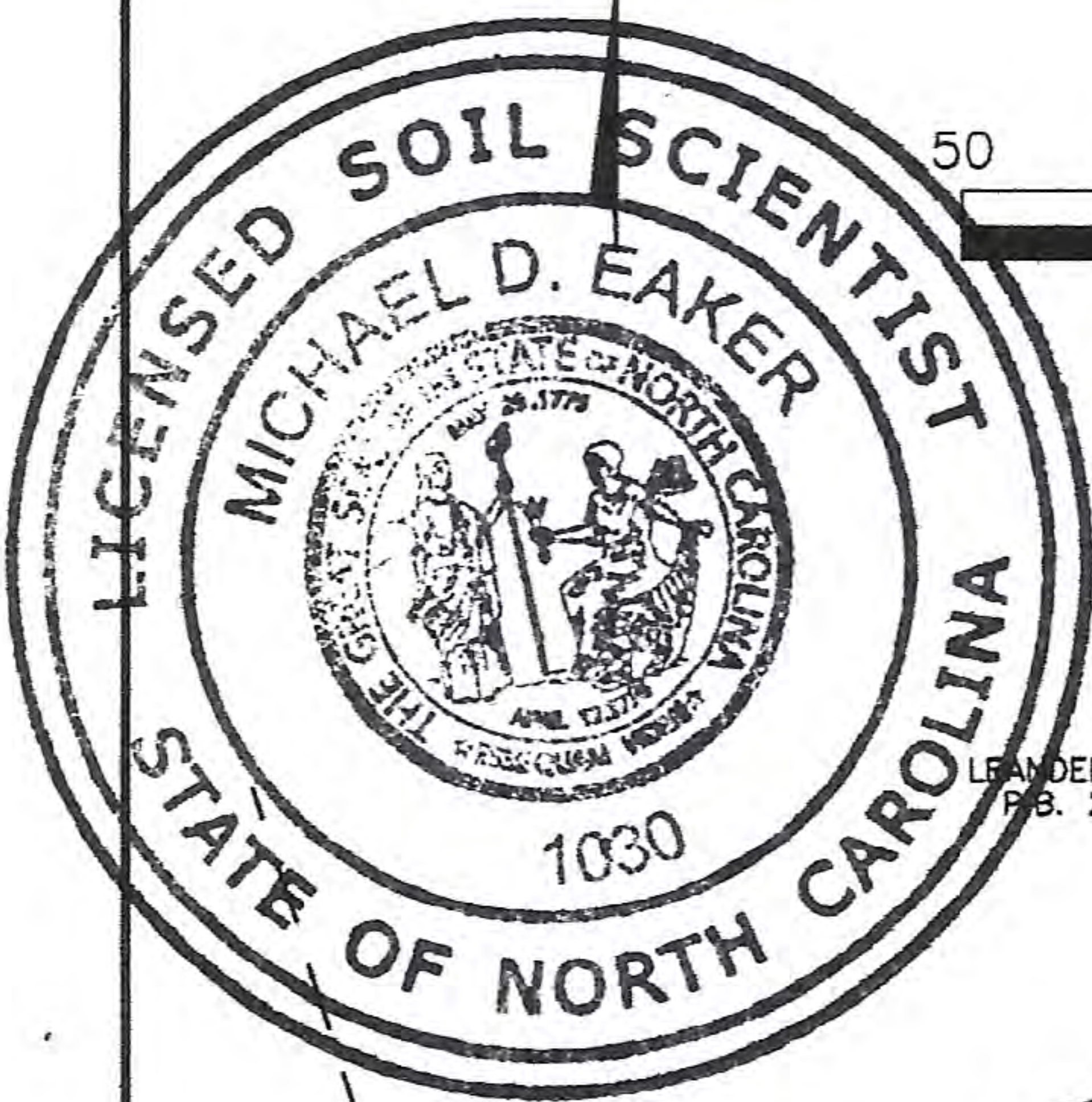
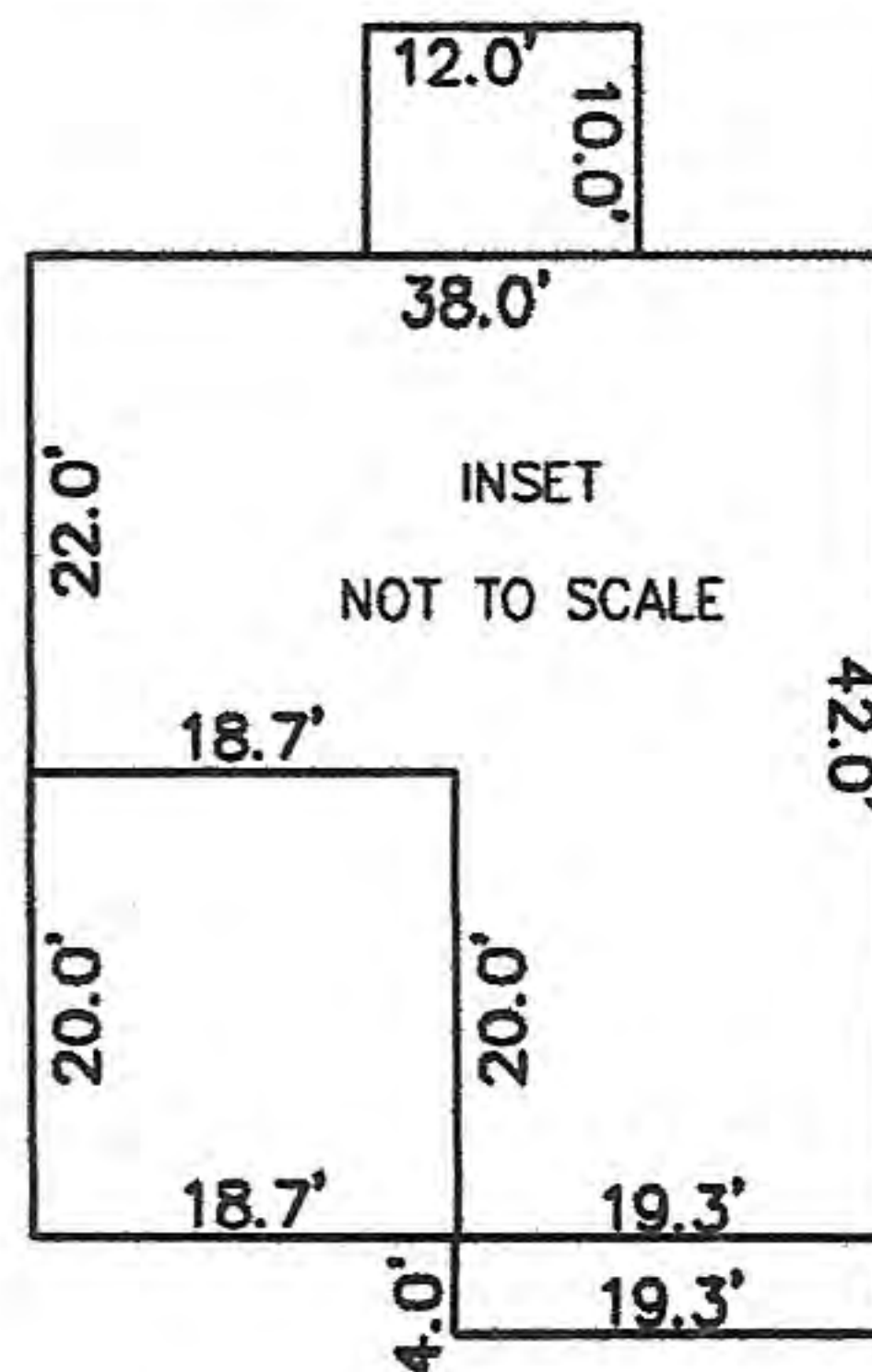
HARNETT COUNTY, NORTH CAROLINA

MAY 12, 2025

ZONED RA-20R

50 25 0 50 100

SCALE 1"=50'



N/F
SENIOR FAMILY REAL ESTATE LLC
KNOWN AS STEPHENS PLACE OF
PB 2023, PG 581



66
LEANDER LEE PRESERVE
P.B. 2025, PG. 267

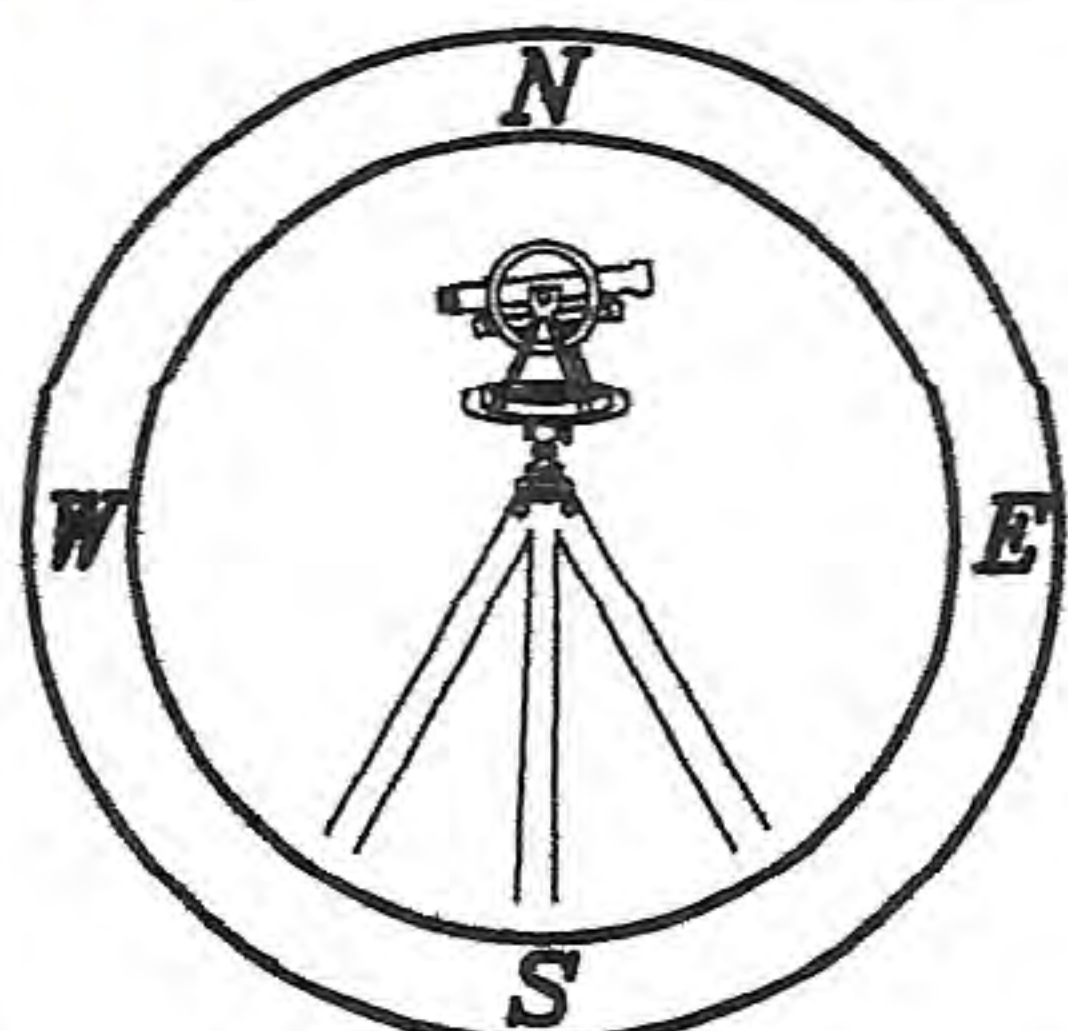
IMPERVIOUS SURFACE TABLE

HOUSE	1,673 S.F.
COVER DECK	120 S.F.
DRIVEWAY	624 S.F.
SIDEWALKS	30 S.F.
MISC/UTILITIES	9 S.F.
TOTAL IMPERVIOUS AREA	2,456 S.F.
TOTAL LOT AREA	20,869 S.F.
PERCENTAGE OF IMPERVIOUS AREA	11.76 %

TOTAL CONCRETE & LANDSCAPE	
CONCRETE	846 S.F.
LANDSCAPE	19,421 S.F.

THIS SURVEYOR DOES NOT
WARRANTY THE ACCURACY
OF ARCHITECTURAL DIMENSIONS.
THEY ARE TO BE VERIFIED BY
THE CONTRACTOR.

 = SUITABLE SOIL



CMP

Professional Land Surveyors
C-1525

333 S. White Street
Post Office Box 1253
Wake Forest, N.C. 27588
(919)556-3148

NOTES:

-THIS PLAN DOES NOT REFLECT AN
ACTUAL SURVEY. IT IS A PRELIMINARY
PLAN AND SHOULD BE USED FOR ITS
INTENDED PURPOSE ONLY.
-NOT FOR RECORDATION, CONVEYANCES,
OR SALES.

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

OWNER: Clayton Properties Group (Mungo Homes)DATE EVALUATED: 5/21/25

ADDRESS: 2521 Schieffelin Rd., Suite 116, Apex, NC 27502

PROPOSED FACILITY: SFDPROPOSED DESIGN FLOW (.0400): 480 gpdPROPERTY SIZE: 0.479 ac

LOCATION OF SITE: 138 Harriette Ct., Lillington, NC 27546PROPERTY RECORDED:

WATER SUPPLY: ☒ Public ☐ Single Family Well ☐ Shared Well ☐ Spring ☐ OtherWATER SUPPLY SETBACK: RES C1: 100'

EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ CutTYPE 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 1-2%	0-5	LS/Gr	VFr/NExp	32"	40"	NA	NA	Suitable 0.3	
		5-12	SL/WF SBK	FR/SEXP	10YR 6/4					
		12-32	SCL/SC/WF SBK	FI/SEXP	10YR 5/8					
		32-40	SCL/WF SBK	FR/SEXP	10YR 5/8 10YR 7/1 mott					
		40-48	SCL/MASS	FI/SEXP	mix all 2 above					
2	LS 1-2%	0-7	LS/Gr	VFr/NExp	27"	38"	NA	NA	Suitable 0.3	
		7-27	C/SC/WF SBK	FI/SEXP	10YR 5/8					
		27-38	CSC/WF SBK	FI/SEXP	10YR 5/8 10YR 7/1 mott					
		38-48	SCL/MASS	FI/SEXP	10YR 7/1 2.5YR 4/8 10YR 5/8 mix					
3	LS 1-2%	0-6	LS/Gr	VFr/NExp	34"	40"	NA	NA	Suitable 0.3	
		6-34	SC/C/WF SBK	FI/SEXP	10YR 5/8					
		34-40	CL/WF SBK	FR/SEXP	10YR 5/8 10YR 7/1 mott					
		40-48	SCL/MASS	FR/SEXP	10YR 7/1 2.5YR 4/8 10YR 5/8MIX					
4	LS 1-2%	0-10	LS/Gr	VFr/NExp	31"	35"	NA	NA	Suitable 0.3	
		10-31	CSC/WF SBK	FI/SEXP	10YR 5/8					
		31-35	C/CL/WF SBK	FI/SExp	10YR 5/8 10YR 7/1 mot					
		35-48	CL/MASS	Fr/SExp	10YR 5/8 10YR 7/1 2.5YR 4/8 mix					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	SITE CLASSIFICATION (.0509): Suitable EVALUATED BY: M. Eaker OTHER(S) PRESENT: D Eaker
Available Space (.0508)	S	S	
System Type(s)	Accpeted	Accpeted	
Site LTAR	0.3 gpd/ft2	0.3 gpd/ft2	
Maximum Trench Depth	13	15	

Comments:

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: Leander Lee Lot 67
DATE OF EVALUATION: 05/21/25
COUNTY: Hamett

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		
5	LS 1-2%	0-6	LS/Gr	VFr/NExp	32"	37"	NA	NA	Suitable 0.3	
		6-32	SC/C/MM SBK	FI/SEXP	10YR 5/8					
		32-37	CI/WF SBK	FI/SExp	10YR 5/8 10YR 7/1 mott					
		37-48	SCL/MASS	FI/SEXP	10YR 5/8 7.5YR 4/8 mott 10YR 7/1 mott					
					mix above					
6	LS 1-2%	0-4	LS/GR	VFR/NEXP	26"	34"	NA	NA	Suitable 0.3	
		4-20	C/MM SBK	FI/SEXP	10YR 5/8					
		20-26	C/WF SBK	FI/SEXP	10YR 5/8 7.5YR 5/8 mott					
		26-34	C/WF SBK	FI/SEXP	10YR 5/8 7.5YR 4/8 mott 10YR 7/1 mott					
		34-48	SCL/MASS	FI/SEXP	mix above					
7	LS 1-2%	0-4	LS/GR	VFR/NEXP	29"	34"	NA	NA	Suitable 0.3	
		4-29	C/WF SBK	FI/SEXP	10YR 5/8 7.5YR 5/8 mott					
		29-34	CL/WF SBK	FI/SEXP	10YR 5/8 10YR 7/1 mott					
		34-48	SCL/MASS	FI/SEXP	10YR 5/8 7.5YR 4/8 mott 10YR 7/1 mott					
					mix above					

COMMENTS: