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

X New ____ Expansion ____Repair ____ Relocation ____Relocation of Repair Area

Owner or Legal Representative Information:
Name: Four Corners of Charlotte LLC
Mailing address: 1612 Seattle Slew Court City: Waxhaw State: NC Zip: 28173
Phone: 704-713-2602 Email: romelle03@yahoo.com

Authorized Onsite Wastewater Evaluator Information:
Name: Larry Thompson, LSS Certification #: 10016E
Mailing address: PO Box 541 City: Midland State: NC Zip: 28107
Phone: 704-301-4881 Email: larry@thompsonenv.com

Site Location Information:
Site address: Mintew Circle, Lincolnton, NC 28092
Tax parcel identification number or subdivision lot, block number of property: PID: 7039
Lot 27 - Lincoln Greens County: Lincoln

System Information:
Wastewater System Type: Type IIIe - Gravity Flow PPBPS
Daily Design Flow: 360
Saprolite System: _____Yes X No Subsurface Operator Required: _____ Yes X No
Water Supply Type: X Private Well ____Public Water Supply ____ Spring _____Other: _____

Facility Type:
X Residential 3 # Bedrooms 6 Maximum # of Occupants
____Business Type of Business and Basis for Flow: _____
____Public Assembly Type of Public Assembly and Basis for Flow: _____

Required Attachments:
X Plat or Site Plan
X Evaluation of Soil and Site Features by Licensed Soil Scientist

Attest: On this the 6th day of March, 2024 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 6th day of March, 2029.

Signature of Authorized Onsite Wastewater Evaluator: _____

Signature of Owner or Legal Representative: _____ ramon gonzalez (Mar 8, 2024 06:39 EST)

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: _____

Lincoln County Environmental Health

115 W. Main Street
Lincolnton, NC 28092
PHONE: 704-736-8426
FAX: 704-736-8427

DOCUMENTATION TO AUTHORIZE AN OWNER'S LEGAL REPRESENTATIVE

Applications for permits require the "signature of the owner or owner's legal representative" (15A NCAC 18A .1937). If the owner does not sign the application himself or herself, they can submit any one of the following documents to designate their legal representative:

1. Power of Attorney
2. Real Estate Contract
3. Estate executor
4. Bankruptcy trustee
5. Court ordered guardianship

In the absence of the above documentation, the property owner may provide the local health department with documentation that designates a legal representative. A property owner may:

1. Complete this form to document his or her legal representative, or
2. Provide his or her own form that contains the information in this form.

If there are multiple property owners, then all property owners must sign the form that designates a legal representative.

By signing a form that designates a legal representative for purposes of 15A NCAC 18A .1937, the property owner authorizes that representative to act on their behalf in matters pertaining to the application and permitting process, including signing or receiving any application, document or permit. The owner retains full responsibility to meet all permit conditions specified by the local health department.

I, Four Corners of Charlotte LLC, am the legal owner(s) of the property located at Lot 27 - Lincoln Greens, Mintew Circle, Lincolnton, NC 28092, identified as PIN (Parcel Identification Number) 7039, located in Lincoln County, North Carolina.

I do hereby authorize (print legal representative/company name) Larry Thompson, LSS, Thompson Environmental Consulting, to act as an agent on my behalf in applying for/signing/obtaining any of the documents described below.

- Application for Improvement Permit (IP) / Authorization to Construct (AC)
- Improvement Permit (IP) / Authorization to Construct (AC)
- Application for soil-site evaluation (new/repair)
- Application/permit for private drinking water well/well abandonment
- Application for Compliance Inspection

I agree to abide by all decisions and/or conditions between the legal representative acting on my behalf and the Lincoln County Department of Public Health, Environmental Health Division.

ramon gonzalez	Mar 6, 2024	Angela Thompson (Mar 6, 2024 18:10 EST)	Mar 6, 2024
Signature of Owner(s)	Date	Signature of Witness	Date

MISSION STATEMENT

The Lincoln County Health Department provides quality health services to promote a healthy community.

VISION STATEMENT

Lincoln County Health Department services will promote healthy lifestyles through prevention, preparedness, and education.

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 9/20/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Higginbotham Insurance Agency, Inc. 500 W. 13th Street Fort Worth TX 76102 License#: 2081754	**CONTACT NAME:** David Vaughan **PHONE (A/C, No, Ext):** 9187797880 **FAX (A/C, No):** 817-882-9284 **E-MAIL ADDRESS:** dlvjr@higginbotham.net
INSURED THOMENV-01 Thompson Environmental Consulting, Inc. PO Box 541 Midland NC 28107-0541	**INSURER(S) AFFORDING COVERAGE** / **NAIC #** **INSURER A :** Mid-Continent Casualty Company 23418 **INSURER B :** Hartford Underwriters Insurance Company 30104 **INSURER C :** **INSURER D :** **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** 1159810537 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X **COMMERCIAL GENERAL LIABILITY** [ ] CLAIMS-MADE [X] OCCUR X Professional GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY [ ] PRO-JECT [ ] LOC [ ] OTHER:			04-GL-001105131	9/25/2023	9/25/2024	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG [ ]	$ 1,000,000 $ 100,000 $ Excluded $ 1,000,000 $ 3,000,000 $ 3,000,000 $
	AUTOMOBILE LIABILITY [ ] ANY AUTO [ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS [ ] HIRED AUTOS ONLY [ ] NON-OWNED AUTOS ONLY [ ]						COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) [ ]	$ $ $ $ $
	[ ] **UMBRELLA LIAB** [ ] OCCUR [ ] **EXCESS LIAB** [ ] CLAIMS-MADE [ ] DED [ ] RETENTION $						EACH OCCURRENCE AGGREGATE [ ]	$ $ $
B	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** Y / N ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [N] **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		38WECNW6175	10/17/2023	10/17/2024	X PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

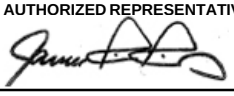
CERTIFICATE HOLDER

For Informational Purposes

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



Residential Subsurface Wastewater Treatment and Disposal System AOWE Permit

for

Lot 27 – Lincoln Greens
Mintew Circle
Lincolnton, NC 28092

Tax Parcel Number: 7039
March 7, 2024

Prepared for:

Four Corners of Charlotte LLC
1612 Seattle Slew Court
Waxhaw, NC 28173
704-713-2602

Prepared by:

Larry Thompson, REHS, LSS
Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107-0541
Phone: 704-301-4881
Fax: 206-350-8895
larry@thompsonenv.com

Details

Four Corners of Charlotte LLC has contracted with Thompson Environmental Consulting, Inc. (TEC) to prepare an AOWE septic permit package for a 3-bedroom single-family residence to be constructed on Lot 27 – Lincoln Greens, Mintew Circle, Lincolnton, North Carolina (Lincoln County Parcel Number: 7039).

Based upon a soil and site evaluation performed by TEC, it was determined that a sufficient amount of "Provisionally Suitable" Group IV Soil is available for the initial installation and repair of a **Vertically Installed Gravity-Flow Prefabricated Permeable Block Panel System** for a 480 gallon-per-day residence at a 0.3 GPD/sq/ft long-term acceptance rate (LTAR). The property will be served by a private well.

This proposal is being submitted pursuant to and meets the requirements of G.S. 130A-336.2. (AOWE Permitting).

Location

From Lincolnton, take N. Grove Street to Reepsville Road. Stay straight on Reepsville Road, turn left onto Mintew Circle and keep left. Lot is located on the left in 0.1 miles.

References

Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18E, Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, January 1, 2024.

Design, Installation and Maintenance of the T & J Panel Wastewater Treatment System; published by T & J Panel, 2021.

Primary Investigator's Credentials

NC Registered Sanitarian No. 1208
NC Licensed Soil Scientist No. 1287
NC Authorized Onsite Wastewater Evaluator No. 10016E
SC Certified Professional Soil Classifier No. 111
NC Subsurface Septic System Operator No. 22199
NC Grade IV Wastewater System Installer No. 1762
NC Certified Wastewater System Inspector No. 17621

Plans and Specifications

A. Septic Tank

1. The septic tank shall be State approved, watertight, structurally sound, and 1,000 gallons in capacity (minimum).

2. The septic tank will be fitted with an approved effluent filter and riser for easy access and periodic maintenance.
3. It is the responsibility of the septic contractor to thoroughly inspect the septic tank prior to accepting delivery to assure that the tank has had time to properly cure and is free of cracks or other structural deficiencies.

B. Pipes and Fittings

1. All discharge piping, connectors and supply lines should be made of SCH 40 PVC.
2. All joints must be properly "welded" utilizing the appropriate PVC cement for each application.

C. Distribution Method

1. Individual drainlines shall be evenly fed via a distribution box.
2. Distribution box shall be water tested for equal flow at the time of the final inspection.

D. Backfill

1. Backfill sand shall be clean, washed, medium sand that is naturally occurring and falls within the gradation of ASTM C-33 specification (used in the ready-mix industry and is readily available). Properly compact backfill to provide the intended subgrade support.

E. Drainfield Installation

1. The drainfield and the proposed septic tank location have been marked on-site utilizing metal stemmed flags. Once this area has been approved by the county, the property owner/builder should mark this area and isolate it as much as possible from construction traffic. Prior to the system installation, the septic contractor shall contact the designer for a preconstruction conference at which time the drainfield area will be re-verified.
2. Under no circumstances shall any construction take place within the drainfield area while the soil is in a wet condition. If the installer has doubts as to whether or not the drainfield area is dry enough to begin construction, the environmental health specialist for this area should be contacted for permission to proceed with the installation.
3. The specified system is a Type IIIe pre-fabricated permeable block panel system – specifically the vertically installed prefabricated permeable block panel system manufactured by T&J Panel Wastewater Treatment System, Patent No. 4013559; telephone: 1-800-222-2577. The installer must follow the manufacturer's guidelines for installing the T&J Panel System and should request an installation manual from the manufacturer prior to beginning construction.
4. The initial drainfield consists of four (4) laterals constructed **2-feet wide by 50-feet in length**.
5. It is essential that the lateral trenches be constructed on contour with the land, with each trench being excavated level from beginning to end. The use of a tripod mounted engineer's level is essential to assure that each trench is constructed as level as possible.
6. The required trench depth for this system shall be **31-inches**. Each trench **shall be placed on a minimum of 6-foot on centers**.

7. Once trenches are dug, the side walls shall be raked, and a light dusting of lime applied.
8. Backfill the trench with 6-inches of sand and level to grade properly compacted to intended subgrade support. Once leveled, place 1 x 6-inch boards on top of the sand the entire length of each trench. Once the grade boards have been set, the panels may be set into the trench. The panels should be placed 6 inches apart.
9. Once the panels have been set, line the top portion of each chamber with the T&J supplied sand alternative product (SAP – geotextile fabric). GE Foam Sealer or tar seal rope should be placed in the bottom of the "U" outs to form seals around the pipe as shown in earlier drawings.
10. Tar seal rope, or approved foam, should be placed in the "U" outs of each end of the panel to form seals. Once the tar rope is in place, the 1¼ inch Schedule 40 PVC connectors can be added, and the seal completed by the addition of more tar rope on the top and sides of the pipe. Now that the connection and seals are complete, a block cap is placed on each end of the panel so that all openings are covered.
11. Once the lateral has been installed and the panels closed, the trench is ready to be backfilled to the top with the sand used in the trench bottom. At this point, the trenches should be left open for the final inspection by the local health department.

F. Final Landscaping

1. The drainfield shall be shaped to shed rainwater and be free from low spots.
2. Final cover requirement over the drainfield area is 6-inches.
3. The entire area of the drainfield should be planted with grass as soon as possible to prevent erosion. The soil should be properly tilled, limed (if necessary) and fertilized prior to planting. After applying grass seed, the area should be heavily mulched with straw or other suitable material.

Maintenance

H. In General

1. The homeowner must maintain the drainfield area through periodic mowing. The drainfield must not be allowed to become overgrown.
2. The septic tank should be pumped every 4 years or when the solids within the septic tank reach an elevation that is equivalent to 25 percent of the volume of the tank. In some situations, the tanks may need to be pumped more frequently. If using a garbage disposal, it is recommended that the homeowner has the septic and pump tanks cleaned out annually.
3. Use of a garbage disposal is not recommended. Solids added through the garbage disposal tend to degrade at a very slow rate.
4. Grease, cooking oils, coffee grounds and non-degradable solids (disposable diapers, cigarettes, and solid paper wastes) should never be put into a septic tank.
5. Used motor oil or any oily liquids should not be disposed of in a septic tank.
6. Be aware of the amount of water that you are using in your home. Water saving fixtures and devices can be installed on sinks, toilets, and showers to reduce the volume of wastewater that you are sending to your drainfield.
7. Run dishwashers and washing machines only when you have a full load.

8. Repair leaky faucets and toilets. Small drips equal large volumes of water over time and can over burden your drainfield.
9. Do not use chemical additives in your system. Studies have indicated that they do not increase the biological activity that naturally occurs in the septic system and in some cases certain additives have been found to be detrimental to the life of a system.

Design Specifics

Daily Design Flow:	480 GPD
Septic Tank Size:	1,000 Gallons
Effluent Loading Rate:	Design = 0.3 GPD sq. ft.
Drainfield Type:	Vertical PPBPS
Distribution Method:	Distribution Box
Number and Size of Drainlines:	(4) 2-ft Wide x 50-ft Long
Maximum Trench Depth:	31 Inches
Drainline Spacing:	6 Foot on Centers
Total Length of Drainline:	200 Feet
Total Number of Panels:	44
Final Soil Cover Requirement:	6 Inches Minimum

Repair Specifics

Effluent Loading Rate:	Design = 0.3 GPD sq. ft.
Drainfield Type:	Vertical PPBPS
Distribution Method:	Distribution Box
Required Linear Footage:	200 Feet
Available Linear Footage:	227 Feet
Maximum Trench Depth:	31 Inches
Final Soil Cover Requirement:	6 Inches Minimum

*See septic layout for site locations and additional details.

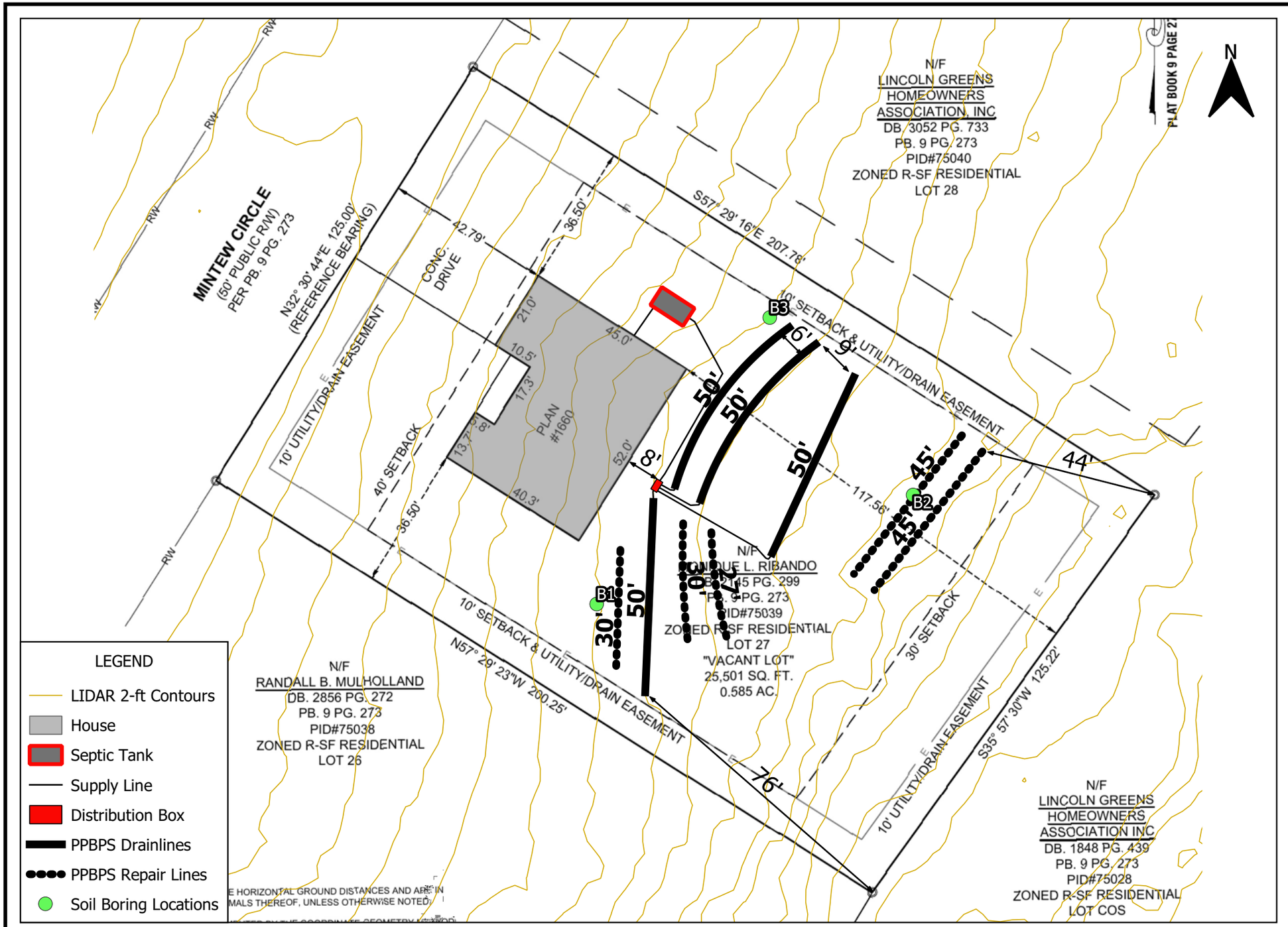


FIGURE 1

Prepared For:

Four Corners of Charlotte LLC

Proposed Septic Layout

Lot 27 - Lincoln Greens
Mintew Circle
Lincolnton, NC 28092

Lincoln County

Scale:
0 15 30 ft

TEC Job No.
24-64

Date:
March 2024

Thompson Environmental Consulting
WATER • WASTEWATER • WETLANDS

Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107

Sheet 1 *of* 1
PROPERTY ID #: 3604891676
COUNTY: Lincoln

75039

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: [illegible] Ribando
ADDRESS:
PROPOSED FACILITY: [illegible] PROPOSED DESIGN FLOW (.1949):
LOCATION OF SITE: [illegible] Lincoln Green / Minton Circle
WATER SUPPLY: ☒ Private ☐ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

DATE EVALUATED: 10-12-23
PROPERTY SIZE: 0.5850 ac
PROPERTY RECORDED:

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	LS 10%	0-48	SBK/C	FI/S/P/SEX		48+			PS 0.3
2	[illegible] LS 4%	0-8	GR/SCL	FR/SS/SP/SEX		48+			PS 0.3
		8-48	SBK/C	FI/S/P/SEX					
3	LS 10%	0-7	GR/SCL	FR/SS/SP/SEX		48+			PS 0.3
		7-48	SBK/C	FI/S/P/SEX					
4	LS 15%	0-6	GR/SCL	FR/NS/SP/SEX		48"			PS 0.3
		6-48	SBK/C	FI/S/P/SEX					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	PPBPS	PPBPS
Site LTAR	0.3	0.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): Provisionally Suitable
EVALUATED BY: L. Thompson, LSS
OTHER(S) PRESENT:

COMMENTS:

LEGEND

LANDSCAPE POSITION	SOIL GROUP	SOIL TEXTURE	CONVENTIONAL LTAR (gpd/ft²)	SAPROLITE LTAR (gpd/ft²)	LPP LTAR (gpd/ft²)	MINERALOGY/ CONSISTENCE		STRUCTURE
CC (Concave slope)	I	S (Sand)	0.8 - 1.2	0.6 - 0.8	0.4 -0.6	MOIST	WET	SG (Single grain)
CV (Convex Slope)		LS (Loamy sand)		0.5 -0.7		Lo (Loose)	NS (Non-sticky)	M (Massive)
D (Drainage way)	II	SL (Sandy loam)	0.6 - 0.8	0.4 -0.6	0.3 - 0.4	VFR (Very friable)	SS (Slightly sticky)	GR (Granular)
FP (Flood plain)		L (Loam)		0.2 - 0.4		FR (Friable)	S (Sticky)	SBK (Subangular blocky)
FS (Foot slope)	III	SiL (Silt loam)	0.3 - 0.6	0.1 - 0.3	0.15 - 0.3	FI (Firm)	VS (Very sticky)	ABK (Angular blocky)
H (Head slope)		SCL (Sandy clay loam)		0.05 - 0.15**		VFI (Very firm)	NP (Non-plastic)	PR (Prismatic)
L (Linear Slope)		CL (Clay loam)		None		EFI (Extremely firm)	SP (Slightly plastic)	PL (Platy)
N (Nose slope)		SiCL (Silty clay loam)					P (Plastic)	
R (Ridge/summit)		Si (Silt)					VP (Very plastic)	
S (Shoulder slope)	IV	SC (Sandy clay)	0.1 - 0.4		0.05 - 0.2	SEXP (Slightly expansive)		
T (Terrace)		SiC (Silty clay)				EXP (Expansive)		
TS (Toe Slope)		C (Clay)						
		O (Organic)	None					

* Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

**Sandy clay loam saprolite can only be used with advanced pretreatment in accordance with 15A NCAC 18E .1200.

HORIZON DEPTH In inches below natural soil surface

DEPTH OF FILL In inches from land surface

RESTRICTIVE HORIZON Thickness and depth from land surface

SAPROLITE S(suitable) or U(unsuitable); Evaluation of saprolite shall be by pits.

SOIL WETNESS Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation

CLASSIFICATION S (Suitable) or U (Unsuitable)

Show profile locations and other site features (dimensions, reference or benchmark, and North).