BLDR-2023-25815

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625

PERMIT # OSWP-2023-22190

SEPTIC: IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PIN # 4842-71-3992

APPLICANT / OWNER: David Hostetler APPLICANT ADDRESS: 2535 South River Church Rd Woodleaf NC 27054.

SITE ADDRESS: 194 SEMPER FIDELIS RD, OLIN, NC 28660 PHONE: 704-433-5348. ALT. PHONE:

SITE DIRECTIONS: SAP CONTROLLED: YES ☐ NO ☑

SUBDIVISION: Philmone E Jones JR SECTION: LOT #: 3 LOT AREA: 5.219 DESIGN FLOW: 480 L.T.A.R.: 0.3

Septic Tank: 1000 (gal)	STB:	Date:	☑ New System ☐ Repair ☐ Expansion	System Type: III	☑ Residence	No. Bedrooms: 4	Water Supply: New Well
Pump Tank: (gal)	PT:	Date:	System Description: Gravity 25% reduction		☐ Business	No. Persons: 8	
Pump Make:	Model:	Serial #:	Repair System Description: Gravity 25% reduction		☐ Other	No. Employees:	
# Nitrification Fields: 1	# Lines: 3	Linear Ft.: 400	Maintenance Agreement Required: ☐ YES ☑ NO		☑ Slab	☐ Crawl Space	
Trench Width: 36	Trench Bottom Depth (Low side): 34		Gravel Depth:	☑ GRAVITY ☐ PRESSURE	☐ Basement w/ Plumbing	☐ Basement w/o Plumbing	

Comments / Conditions: This improvement permit is issued pursuant to G.S. 130A (a2), (a3), and (a4) using the signed and sealed LSS/LG Evaluation attached here.

INITIAL SITE SKETCH

AS BUILT SKETCH

INSTALLED AS SHOWN

Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION

☐ IMPROVEMENT PERMIT with plat valid without expiration. ☑ IMPROVEMENT PERMIT with site plan valid for 60 mos. ☑ AUTHORIZATION TO CONSTRUCT valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.

Owner / Applicant Signature: Date:

IMPROVEMENT PERMIT by: Date: 5/10/2023

AUTHORIZATION TO CONSTRUCT by: Date: 5/10/2023

Installed By: BARNES BACKHOE + GRADING

OPERATION PERMIT by: Date: 1-31-2024

Existing System Inspected By: Date:

FOR SEPTIC FINAL INSPECTION CALL: 704-664-3703 BETWEEN 8am-9am the day the inspection is needed.

County: Iredell

This Section for Local Health Department Use Only

Initial submittal received: 5/8/2023 (Date) by BB. (Initials)

Permit Number: OSWP-2023-22190

G.S. 130A-335(a6) states the following: *'If a local health department fails to act on an application for a construction authorization submitted pursuant to subsection (a5) of the section within 10 business days of receipt of a complete application, the local health department shall issue the construction authorization.'*

In accordance with G.S. 130A-335(a5) the construction authorization application is:

☐ 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 Owner on _____ (Date)

State Authorized Agent: _____ Date: _____

☐ Denied (See attached report.)

Copies of this were sent to the AOWE/PE and the Owner on _____ (Date)

State Authorized Agent: _____ Date: _____

☑ Complete

State Authorized Agent: Benjamin A Batts Date of Issuance: 5/9/2023

This Construction Authorization is issued pursuant to G.S. 130A-335(a2), (a5), and (a6) 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, or if information submitted in the application was falsified, inaccurate or misleading. 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 location and identification of all property lines, easements, water lines, and other appropriate utilities shall be the responsibility of the owner. Final landscaping shall be constructed to divert water and establish vegetative cover.

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: 5/9/2028

See attached site sketch

County: Iredell

This Section for Local Health Department Use Only

Initial submittal received: 5/8/2023 (Date) by BB (Initials)

Permit Number: OSWP-2023-22190

G.S. 130A-335(a4) states the following: *'If a local health department fails to act on an application for an improvement permit submitted pursuant to subsection (a3) of the section within 10 business days of receipt of a complete application, the local health department shall issue the improvement permit.'*

In accordance with G.S. 130A-335(a3) the improvement permit application is:

☐ 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 Owner on _____ (Date)

State Authorized Agent: _____ Date: _____

☐ Denied (See attached report.)

Copies of this were sent to the LSS and the Owner on _____ (Date)

State Authorized Agent: _____ Date: _____

☑ Complete

State Authorized Agent: Benjamin A Botts Date of Issuance: 5/9/2023

This Improvement Permit is issued pursuant to G.S. 130A-335 (a2), (a3), and (a4) using the signed and sealed LSS/LG evaluation(s) attached here. The issuance of this permit by the Health Department 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 site is subject to revocation if the site plan, plat, or the intended use changes, or if information submitted in the application was falsified, inaccurate or misleading. 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 the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit. The location and identification of all property lines, easements, water lines, and other appropriate utilities shall be the responsibility of the owner.

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: 5/9/2028

See attached site sketch

County: Iredell

CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)/SL2022-11

PIN/Lot Identifier: 4842713992

Issued To: David Hostetler

Property Location: Semper Fidelis Rd Olin NC 28660

AOWE/PE Plans/Evaluations Provided: Yes ☒ No ☐ If yes, name and license number of AOWE/PE: Samuel Ashley Rollins #10027E

Facility Type: Single Family Residence

☒ New ☐ Expansion ☐ Repair System Relocation ☐

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

Type of Wastewater System** Accpt 25% redu Gravity (Initial) Same (Repair)

Design Daily Flow: 480 GPD Wastewater Strength: ☒ domestic ☐ high strength ☐ industrial process

Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? ☐ Yes ☒ No

Installation Requirements/Conditions

Septic Tank Size: 1000 gallons Total Trench/Bed Length: 400 feet Trench/Bed Spacing: 9 feet on center

Drainfield square footage: 1200 Trench/Bed Width: 36 inches LTAR: 0.3 gpd/ft²

Soil Cover: 6" minches Slope Adjusted Maximum Trench/Bed Depth: 36 inches

Aggregate Depth: _____inches above pipe _____inches below pipe _____inches total

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

Pump Requirements: _____ ft. TDH vs. _____ 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 [.1937(h)]: Yes ☐ No ☒

Easement, Right-of-Way, or Encroachment Agreement Required [.1938(j)]: ☐ Yes ☒ No

Declaration of Restrictive Covenants: ☐ Yes ☒ No

**If applicable:
I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.

Owner/Legal Representative Print Name: _____

Owner/Legal Representative Signature: _____ Date: _____

Pre-Construction Conference Required: Yes ☐ No ☒

Conditions: See design

The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by reference into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.

AOWE/PE Print Name: Samuel Ashley Rollins

AOWE/PE Signature: Samuel A Rollins Date: 4/7/23

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

See attached site sketch

NC ONSITE WASTEWATER EVALUATOR Certification Number 10027E

County: Iredell

IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)/SL2022-11

PIN/Lot Identifier: 4847713992

Issued To: David Hostetler

Property Location: Semper Fidelis Rd Lot 3

Subdivision: _____ Lot #: 3 Block: _____ Section: _____

LSS Report Provided: Yes ☒ No ☐

If yes, name and license number of LSS: Samuel Ashley Rollins #1231

New ☐ Repair ☐ Expansion ☐ System Relocation ☐

Proposed Structure: Single Family Residence

Proposed Wastewater System Type Aerobic 25% reduction Gravity (Initial) Same (Repair)

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

Proposed Design Daily Flow: 480 GPD Proposed LTAR (Initial): 0.3 Proposed LTAR (Repair): 0.3

Design Wastewater Strength: ☒ domestic ☐ high strength ☐ industrial process

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

Pump Required: ☐ Yes ☒ No ☐ May be required based upon final location and elevations of facilities

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

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

Drainfield location meets requirements of Rule .1945: Yes ☒ No ☐

Drainfield location meets requirements of Rule .1950: 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:

See design

Licensed Soil Scientist Print Name: Samuel Ashley Rollins

Licensed Soil Scientist Signature: Samuel A Rollins Date: 4/7/23

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

See attached site sketch

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Project#: 23-0033
March 31st, 2023

Summit Roofing Systems
Attn: *David Hostetler*
Email: davidhostetler440@gmail.com

RE: Soil & Site Evaluation for a 4 Bedroom Residence at 194 Semper Fidelis Road (LOT 3), Olin, NC 28660, PIN # (4842713992), Iredell County.

Mr. Hostetler:

At your request Soil & Forestry Services of the Carolinas (S&FS) has performed soil/site evaluations on parcel noted above. The Lot size is noted on the attached survey map & soil evaluation form. The purpose of our work was to identify soil areas with potential to support subsurface wastewater disposal systems and provide design details for Session Law submittal to Iredell County Health Department.

Site Conditions

At the time of our evaluation land cover on the property was mostly open . Topography within the evaluated area was gently slope near the house site and proposed drainfield area. Property lines and corners were marked at the time of the evaluation by Whitley Survey Co. The Surveyor provided an Autocad File of the survey as a basemap. The proposed septic layout was located via measuring tape/GPS and used to produce the attached *Site Plan*. The attached Survey provided has house plot and acreage.

Methodology

We evaluated soil areas through the use of hand augers. Soil morphological conditions including color, texture, structure, etc. were reviewed in the field with five boring locations on the property flagged and located via GPS. All five of the soil borings are located in or adjacent to the proposed septic layout. Soil suitability was determined by referencing 15A NCAC 18A.1900 "Laws and Rules for Sewage Treatment and Disposal Systems". *Soil & Site Evaluation Forms* were utilized to record the soil morphological data for each boring. The house envelope was located by the client and GPS located. An on-ground layout of system and repair was performed using a laser level. Pin flag locations of the layout were also located by tape measure and GPS. Detailed system & repair information is summarized in the following paragraph for this Lot. A larger house envelope was established to allow flexibility of house location.

Lot 3 Semper Fidelis Rd (*See Attached Design*)
The septic layout for this lot (9' centers) yielded a total of 826 linear feet of line. The primary system is proposed as 402 linear feet of Accepted (25% Reduction) drainfield with gravity distribution. Trench max depth is specified at 36 inches. The repair system is proposed as 402 linear feet of Accepted (25% Reduction) drainfield with gravity distribution . Trench max depth is specified at 36 inches. There is 424 linear feet of repair available.

Session Law Requirements

An LSS Evaluation may be submitted in conjunction with a complete application to the LHD. The application shall include all information described in 15A NCAC 18A .1937(d) and be accompanied by a signed and dated statement from the applicant (owner or owner's legal representative) that reads as follows:

"The LSS Evaluation attached to this application is to be used to produce design and construction features for permitting in accordance with SL 2018-114 Section 11.(c).".

Owner Date

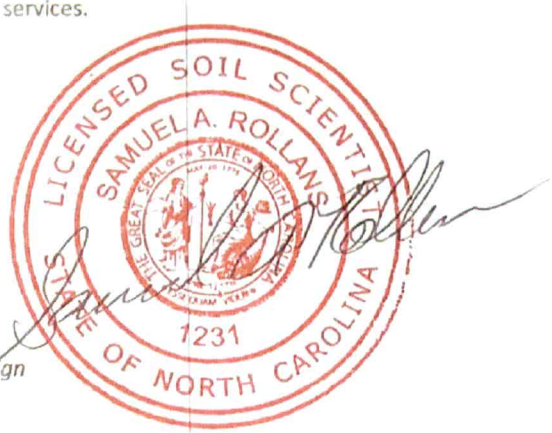
Print Name David Hostetler
Signature [signature] 4-14-23

The LSS Evaluation shall include a statement bearing the LSS seal and signature that reads as follows:

"The LSS Evaluation is being submitted pursuant to and meets the requirements of SL 2018-114 Section 11.(c)."

Disclaimer
This report reflects the findings of S&FS, PA. *This LSS Evaluation is being submitted pursuant to and meets the requirements of SL 2018-114 Section 11.(c).* Any site modifications that impact the proposed septic areas at 194 Semper Fidelis Road, Olin, NC 28660 may nullify this design. System design requirements and site requirements shall be adhered to for installation and Operations Permits to be issued by the local Health Department. If you have questions regarding these requirements a Pre-Construction meeting should be scheduled to discuss. Please contact S&FS if you have any questions regarding this report or the attached information. S&FS also offers septic system inspection, wetland delineation and forestry services.

Sincerely,



S. Ashley Rollans, LSS
Attachment: *Septic Design*

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Attached is a proposed design for an Accepted Septic System with gravity dist. for a 4 bedroom single family residence at Semper Fidelis Rd, Lot 3, PIN#(4842713992) Olin 28660 , Iredell County, NC.

Contents: **Page**

Information for the Installer---------- 1

Design Information
- Design Specifications---------- 2-3
- Layout Specifications---------- 4

Site Plan/System Plan---------- 5

Calculations---------- 6

Profile Descriptions---------- 7

Septic Application---------- ONLINE

Zoning Permit---------- ONLINE

Improvements Permit Form---------- 8

Construction Authorization Form---------- 9

Survey---------- 10

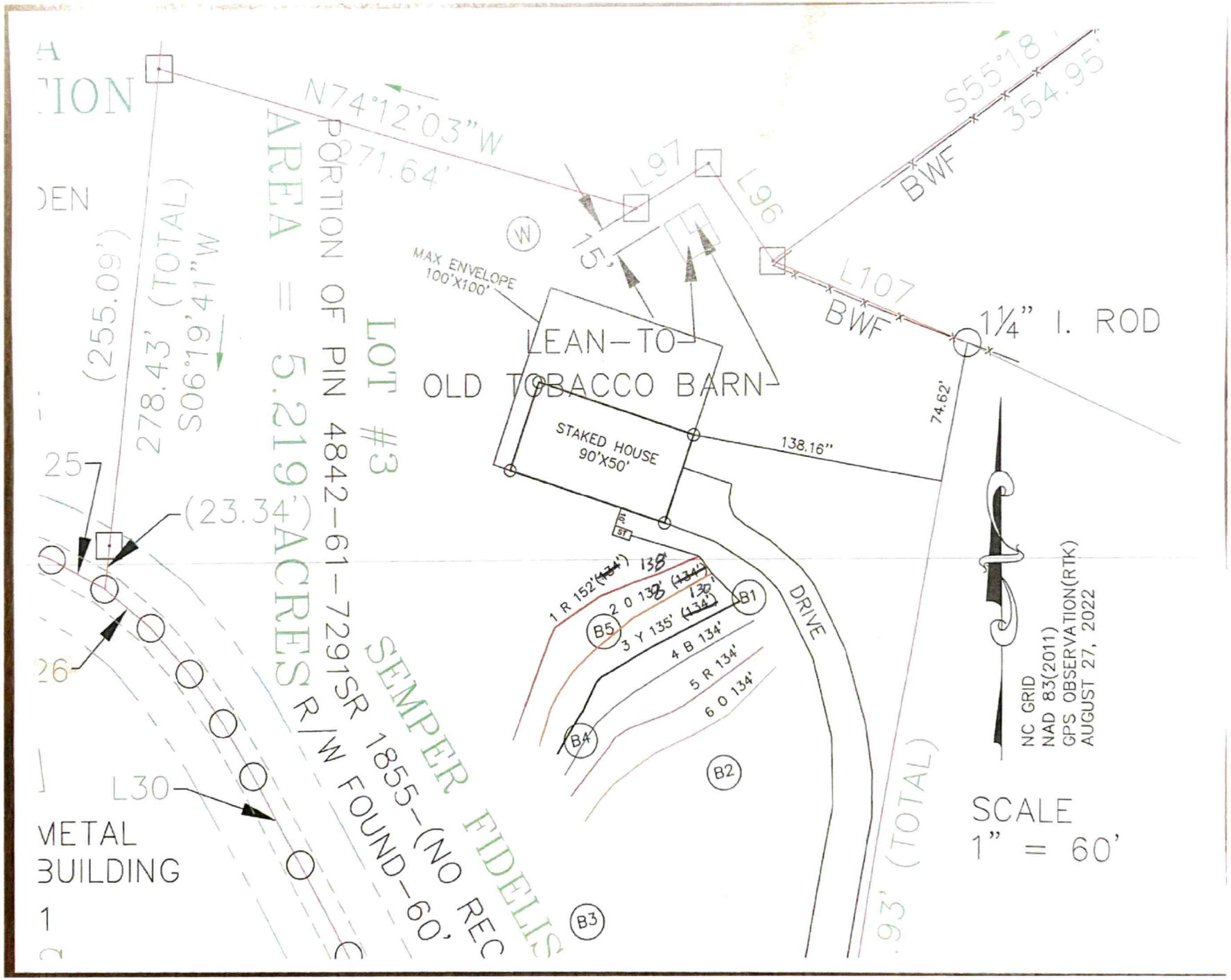
LICENSED SOIL SCIENTIST
SAMUEL A. ROLLAMS
1231
STATE OF NORTH CAROLINA

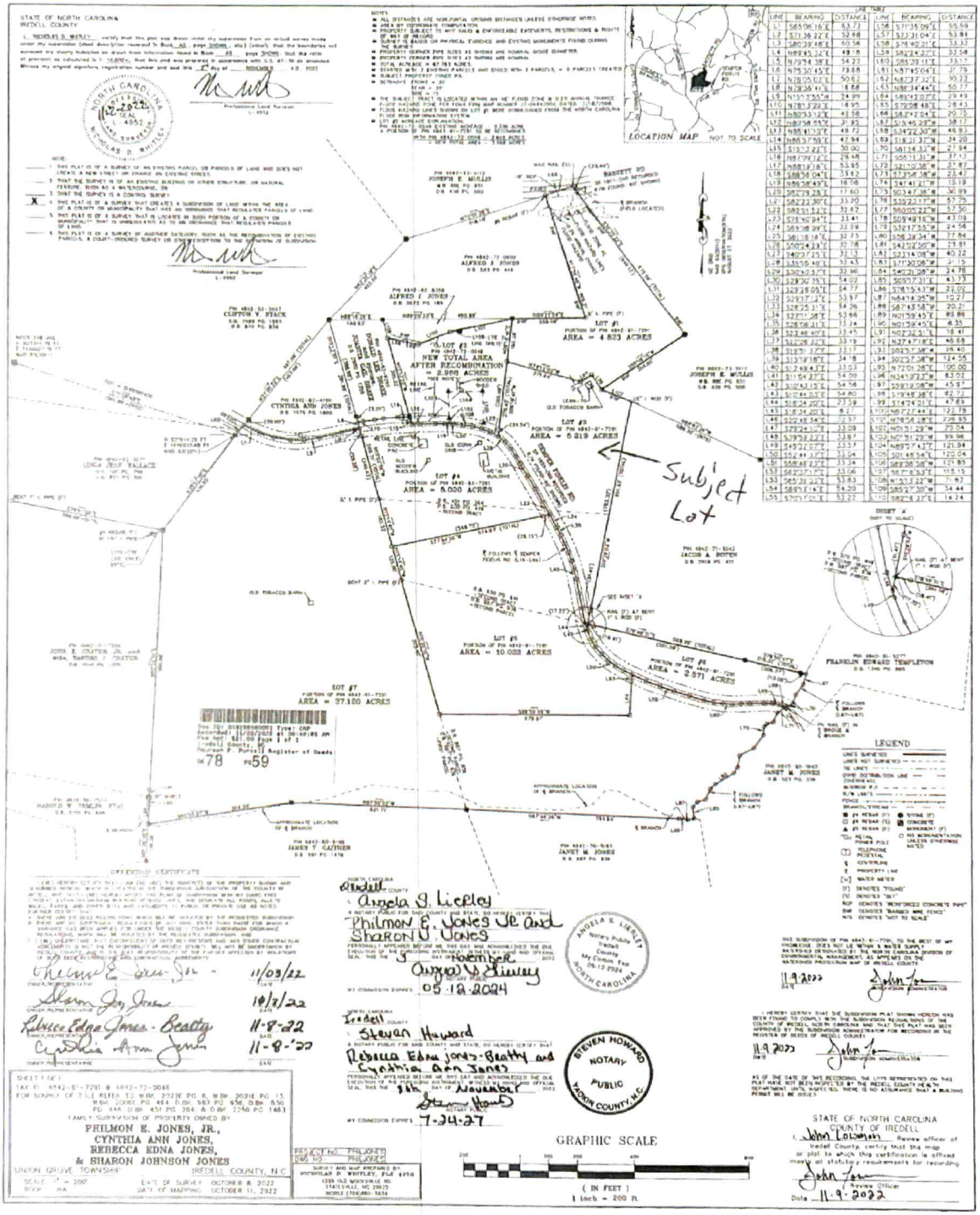
March 31, 2023
23-0033
Design By: Soil & Forestry Services of the Carolinas, PA

INFORMATION FOR THE INSTALLER:

The permit should be read very carefully prior to bidding. The following are details that must be considered along with all other considerations.

- Tanks shall be approved by NC DHHS, and certification supplied by the manufacturer.
- Tanks shall be water tested prior to installation.
- The installer shall be responsible to the owner for placement of the tanks and to insure that final grades are returned to the original natural grade, with exception of added structural features.
- The supply trench shall be compacted to eliminate cavities left during initial fill placement.
- Installation of the system shall be during dry conditions in order to protect the soil structure.
- All fittings shall be pressure rated fittings.
- All joints shall be cleaned with PVC pipe cleaner and a heavy bodied glue applied to weld all joints.
- Where required by the county health department, post installation inspections by the designer must be scheduled 5 week days in advance.
- Trenches shall be carefully excavated so the bottom is within 2" from the highest to . the lowest points of elevation within the trench. If the bottom elevation needs adjusting after it has been trenched, it will be done by removing high points rather than filling low points. It is extremely important to insure that trenches are not over excavated during initial trenching. All fine grading within the trench will be hand done with a shovel. No loose material will be left in the trench
- All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the riser.
- All tanks shall be properly back filled and compacted to prevent slump at a later date.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral.
- No heavy equipment shall be used on the field during or after installation. The use of a small loader (i.e. Bobcat) or a trencher (i.e. Ditch Witch 2300/2310) may be used for installation.
- Elevations at pinflag locations should be checked by the installer prior to beginning trenches.
- Septic tank riser shall be a minimum of 6" above finished grade.
- System is specified as a gravity 25% reduction (Accepted) installation.
- Repair is specified as a gravity 25% reduction (Accepted) installation.


N74°12'03"W
271.64'
L97
L96
S55°18'
354.95'
BWF
L107
BWF
1¼" I. ROD
MAX ENVELOPE
100'X100'
LEAN-TO
OLD TOBACCO BARN
STAKED HOUSE
90'X50'
138.16"
74.62'
LOT #3
PORTION OF PIN 4842-61-7291
AREA = 5.219 ACRES
SR 1855-(NO REC
R/W FOUND-60'
SEMPER FIDELIS
DRIVE
(255.09')
278.43' (TOTAL)
S06°19'41"W
(23.34')
25
26
L30
METAL
BUILDING
1
B1
B2
B3
B4
B5
1 R 152'
2 O 138'
3 Y 135'
4 B 134'
5 R 134'
6 O 134'
93' (TOTAL)
NC GRID
NAD 83(2011)
GPS OBSERVATION(RTK)
AUGUST 27, 2022
SCALE
1" = 60'


Subject Lot
LOCATION MAP
NOT TO SCALE
LEGEND
GRAPHIC SCALE
(IN FEET)
1 inch = 200 ft.

CALCULATIONS

Location	Lot 3 Semper Fidelis Road Olin, NC 28660	
Project Number	23-0033	
Lot No:	3	
No. of Bedrooms	4	
Design Flow	480	$^{gal}/_{day}$
LTAR	0.300	$^{gal}/_{ft^2\ day}$
PPBPS? (YES OR NO)	NO	
Supply Line Length	20	ft.
Supply Line Volume	13.06	gal.
Required Feet of Line	400	ft.
Amount of Line from Layout	402	ft.
Gallons per Minute	N/A	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Septic Tank Size	1000	gal.
Panel Volume	N/A	gal.
# of Panels	N/A	
Dosing Volume	N/A	gal.
Tank Draw Down	N/A	
Pump Run Time		
Elevation Head	N/A	ft.
Pressure Head	N/A	ft.
Friction Factor	N/A	ft./100 ft. *(From the interpolater.)*
Friction Head	N/A	ft.
Total Dynamic Head (+15%)	N/A	ft.

FRICTION FACTOR INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
	-0.88
25	1.27
	-1.28
30	1.78
	-1.76
35	2.37
	-2.25
40	3.03
43.07	3.48
45	3.77
48.14	4.28
50	4.58
57.11	5.89
60	6.42

Sheet 1 of 1
PROPERTY ID #: 4842713992
COUNTY: Iredell

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

OWNER: Philmon Jones
ADDRESS: 223 Mount Bethel Rd Harmony NC 28634
PROPOSED FACILITY: 4 Bedroom
LOCATION OF SITE: Semper Fidelis Rd

APPLICATION DATE:
DATE EVALUATED: 3/28/2023
PROPERTY SIZE: 5.219
PROPERTY RECORDED: YES

WATER SUPPLY: ☑ Private ☑ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☑ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

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 SAPR CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L/5%	0-6 6-45 45-50	BSLG RBCWMSBK RBCLWFSBK	FRSSSP FRSSSP FRSSSP		50			PS 0.3
2	L/5%	0-6 6-40 40-50	BSCLWFSBK BRCWMSBK BRCLWFSBK	FRSSSP FRSSSP FRSSSP		50			PS 0.3
3	L/5%	0-8 8-50	BSLG BRCWMSBK	FRSSP FRSSP		50			PS 0.3
4	L/5%	0-5 5-50	BSCLWFSBK BRCWMSBK	FRSSSP FRSSP		50			PS 0.3
5	L/5%	0-4 4-12 12-50	BSLG RBCLWFSBK BRCWMSBK	FRSSSP FRSSP FRSSP		50			PS 0.3
6									
7									
8									
9									
10									

LICENSED SOIL SCIENTIST
SAMUEL A. ROLLANS
STATE OF NORTH CAROLINA
1231

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

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Ashley Rollans
OTHER(S) PRESENT: Chad Wagner & Mason Freeman

COMMENTS:

GRAVITY ACCEPTED SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant:	David Hostetler
Address:	2535 South River Church RD Woodleaf, NC 27054
Phone:	704.433.5348
County:	Iredell
Location:	Lot 3 Semper Fielis Rd
Source of Wastewater Flow:	4 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	480
System Flow:	N/A

Design Specifications

Drainfield Size:	400	
Loading Rate (gpd/ft.^{2}):	0.3	
Depth of Gravel in Trench:	N/A	
Gravel Size:	N/A	
Max.Trench Depth:	36 in.	Repair Trench Bottom 36 in.
Trench Width:	36 in.	
Septic Tank Size:	1000	
Estimated Supply Line Length:	20	
Supply Line Diameter:	4 in. SCH 40 PVC	
Supply Line Volume:	13.06	
Dosing Volume:	N/A	
Supply Manifold:	N/A	
Supply Manifold Length:	N/A	
Supply Manifold Volume:	N/A	
Recommended Float Controls:	N/A	
Recommended Control Panel:	N/A	
Pressure Head:	N/A	
Friction Head:	N/A	
Elevation Head:	N/A	
Total Dynamic Head:	N/A	
Threaded Union:	N/A	
Gate Valves:	N/A	
Check Valves:	N/A	
Anti-Siphon Hole:	N/A	
Additional Comments:	Soil suitability was performed by Soil & Forestry Services of the Carolinas, PA	

Lot 3 Semper Fielis Rd

ACCEPTED SYSTEM

DESIGN FLOW (gpd):	480
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.3
TOTAL AREA TRENCH BOTTOM:	1206
TOTAL LATERAL LENGTH:	402
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	400
SUPPLY LINE LENGTH:	20
TOTAL DYNAMIC HEAD:	N/A
MANIFOLD SIZE:	N/A
DOSING VOLUME:	N/A
PUMP TANK DRAW DOWN*:	N/A
SEPTIC TANK SIZE:	1000

Layout Specifications - Lot 3 Semper Fidelis Rd

LAYOUT FOR 4 BEDROOM HOME

March 31, 2023

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM							
INSTR. 1							
1	***RED***					***152***	***134***
2	***ORANGE***					***137***	***134***
3	***YELLOW***					***135***	***134***
4	BLUE					134	134
5	RED					134	134
6	ORANGE					134	134
					Total	826	804

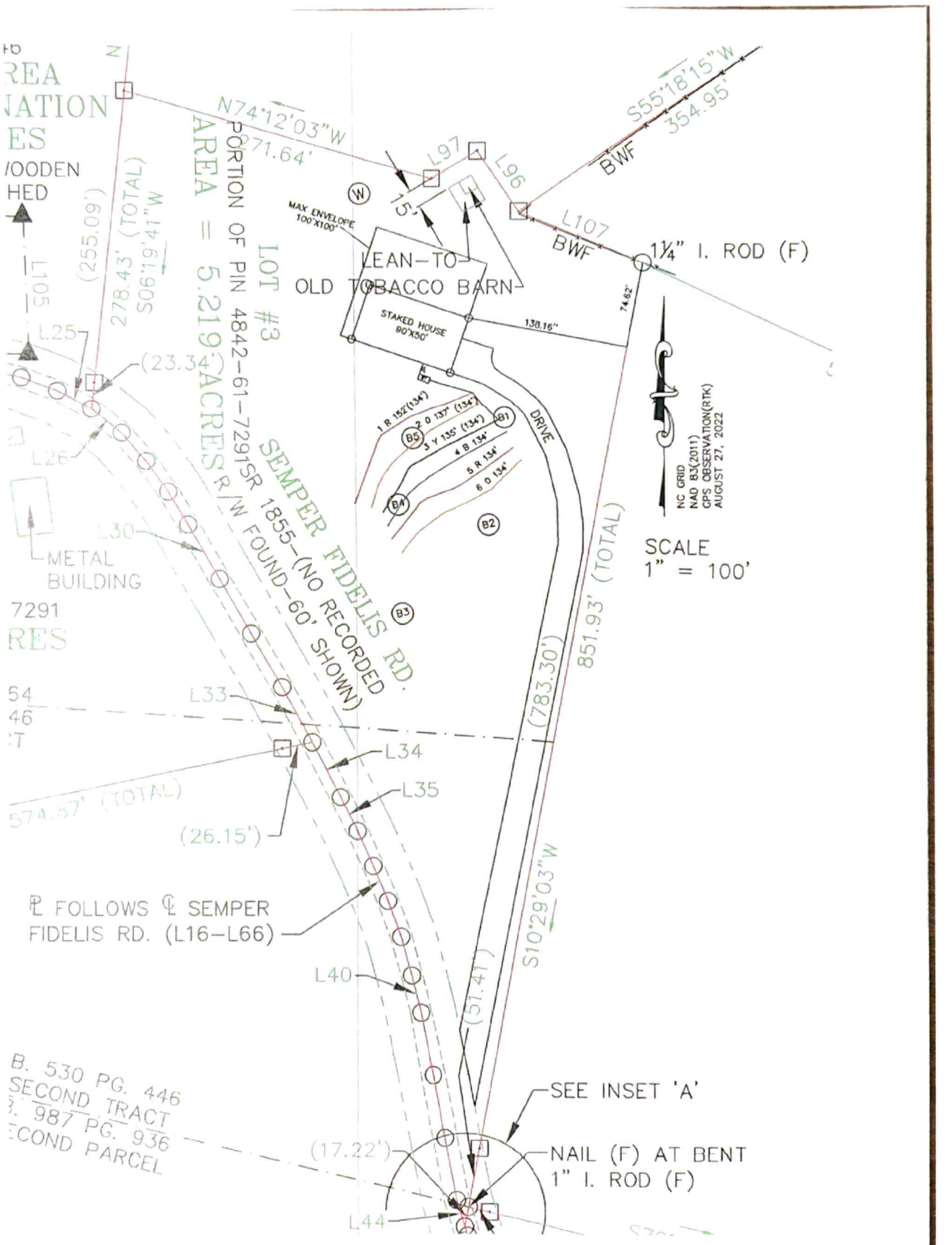
	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
** System*	*402*	*0.300*	*ACCEPT.*	*0.300*	***25% RED***	***GRAVITY***
Repair	402	0.300	ACCEPT.	0.300	25% RED	GRAVITY

Notes: **All measures in feet

**Nitrification lines are demonstrated on contour via colored pin flags

**Nitrification lines were located by tape measures & GPS.

**Property lines & corners were located by a Professional Land Surveyor.


N74°12'03"W
271.64'
L97
L96
S55°18'15"W
354.95'
BWF
L107
BWF
1¼" I. ROD (F)
MAX ENVELOPE
100'X100'
LEAN-TO
OLD TOBACCO BARN
STAKED HOUSE
80'X50'
138.16'
74.62'
DRIVE
1 R 152'(134')
2 O 137' (134')
3 Y 135' (134')
4 B 134'
5 R 134'
6 O 134'
B1
B2
B3
B4
B5
NC GRID
NAD 83(2011)
GPS OBSERVATION(RTK)
AUGUST 27, 2022
SCALE
1" = 100'
PORTION OF PIN 4842-61-7291
AREA = 5.219 ACRES
LOT #3
SEMPER FIDELIS RD.
SR 1855-(NO RECORDED R/W FOUND-60' SHOWN)
L105
(255.09')
278.43' (TOTAL)
S06°19'41"W
L25
(23.34')
L26
L30
METAL
BUILDING
7291
RES
L33
L34
L35
(26.15')
574.87' (TOTAL)
(783.30')
851.93' (TOTAL)
S10°29'03"W
℄ FOLLOWS ℄ SEMPER
FIDELIS RD. (L16-L66)
L40
(51.41')
B. 530 PG. 446
SECOND TRACT
B. 987 PG. 936
ECOND PARCEL
(17.22')
SEE INSET 'A'
NAIL (F) AT BENT
1" I. ROD (F)
L44