ICHD - ENVIRONMENTAL HEALTH DIVISION

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

PERMIT # OSWP-2023-22362

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

PIN # 4760-06-0676 ✓

APPLICANT / OWNER: Ivery Graham | APPLICANT ADDRESS: 145 Windemere Isle Rd Statesville NC 28677

SITE ADDRESS: 121 WINFORD RD, TROUTMAN, NC 28166 ✓ | PHONE: 704-609-1328 | ALT. PHONE:

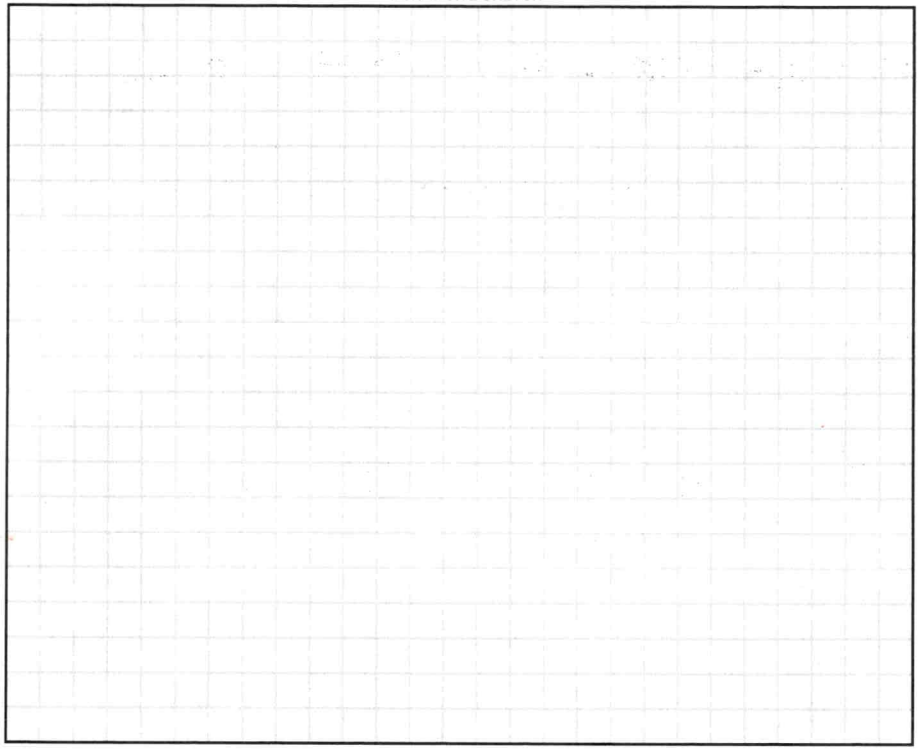
SITE DIRECTIONS: | SAP CONTROLLED: YES ☐ NO ☑

SUBDIVISION: Ivery Graham ✓ | SECTION: | LOT #: 1 ✓ | LOT AREA: 0.72 | DESIGN FLOW: 360 | L.T.A.R.: 0.3

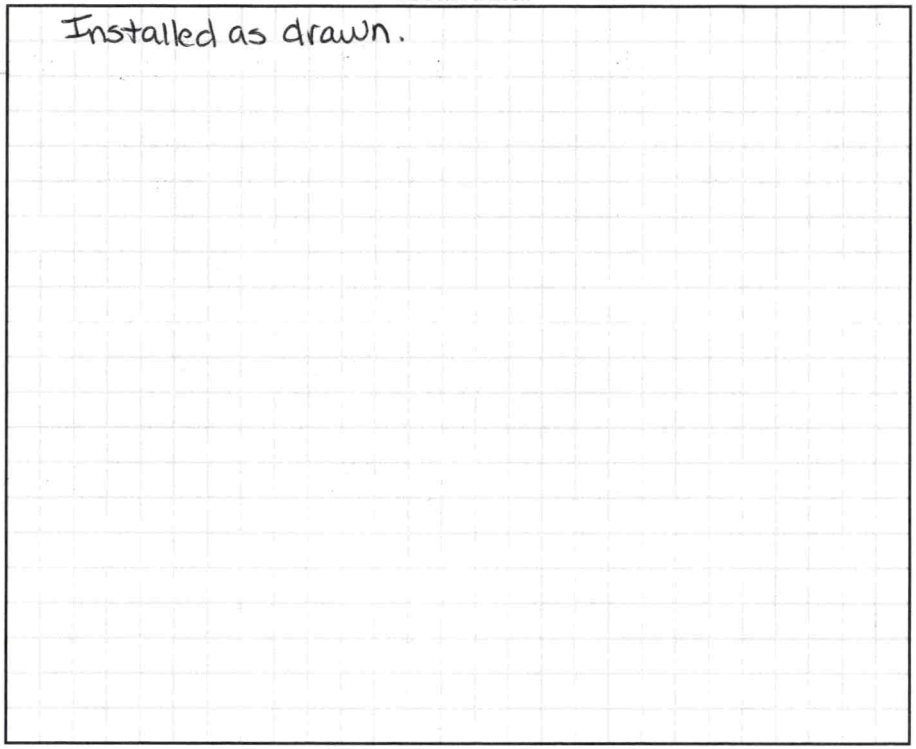
Septic Tank: 1000 (gal)	STB: 760	Date: 6/11/23	☒ New System ☐ Repair ☐ Expansion	System Type: III	☑ Residence	No. Bedrooms: 3	Water Supply: New Well
Pump Tank: (gal)	PT:	Date:	System Description: Gravity 25% reduction		☐ Business	No. Persons: 6	
Pump Make:	Model:	Serial #:	Repair System Description: PPBPS 50% reduction		☐ Other	No. Employees:	
# Nitrification Fields: 1	# Lines: 4	Linear Ft.: 312	Maintenance Agreement Required: ☐ YES ☑ NO		☐ Slab	☑ Crawl Space	
Trench Width: 36	Trench Bottom Depth (Low side): 30		Gravel Depth:	☑ GRAVITY ☐ PRESSURE	☐ Basement w/ Plumbing	☐ Basement w/o Plumbing	

Comments / Conditions: This permit is issued pursuant to G.S. 130A-335 (a2), (a3), and (a4) using the signed and sealed LSS/LG Evaluation form attached here from: Soil and Forestry Services, PA. LSS 1231 AOWE 10027E

INITIAL SITE SKETCH



AS BUILT SKETCH



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: Ivery Graham | Date:

IMPROVEMENT PERMIT by: Benjamin A Botkins | Date: 4/28/2023

AUTHORIZATION TO CONSTRUCT by: Benjamin A Botkins | Date: 4/28/2023

Installed By: Lentz

OPERATION PERMIT by: Sarah Williams | Date: 7/20/2023

Existing System Inspected By: | Date:

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

IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

DOCUMENTATION TO AUTHORIZE AN OWNER'S LEGAL REPRESENTATIVE

(Check and sign only ONE of the options below)

1. *** APPLICANT AND OWNER ARE THE SAME. *** (*Sign here*) _____

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: *Power of Attorney; Real Estate Contract; Estate executor; Bankruptcy trustee; 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:
Complete this form to document his or her legal representative, or 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.

2. I, _____, am the legal owner(s) of the property located at _____, identified as

PIN (Parcel Identification Number)_____, located in Iredell County, North Carolina.

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

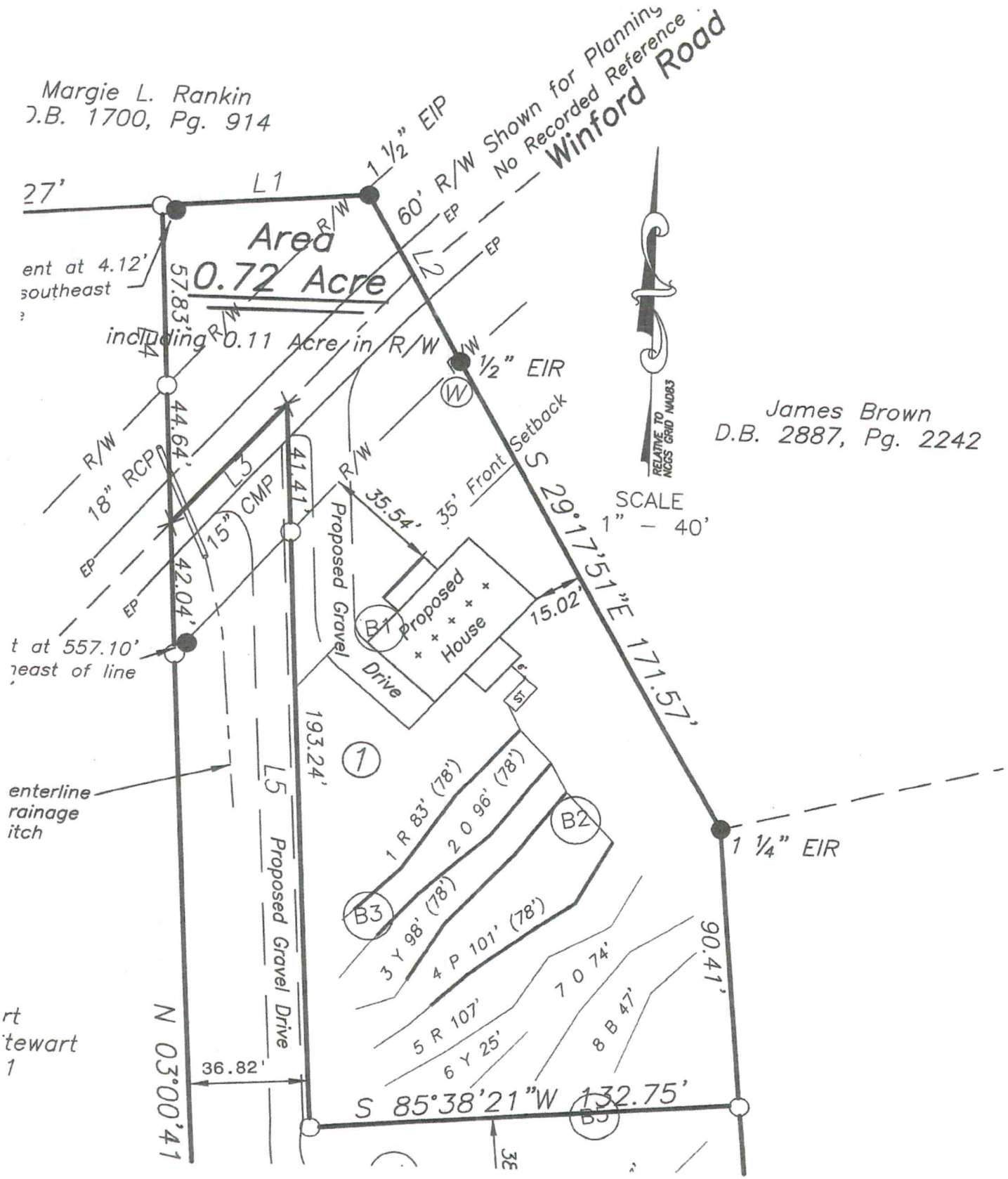
- Application for Improvement Permit (IP) / Authorization to Construct (AC)
- Improvement Permit (IP) / Authorization to Construct (AC)
- Application for soil-site evaluation (new/repair)
- Application/permit for private drinking water well/well abandonment
- Application for Compliance Inspection

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

_____ _____
Signature of Owner(s) Date

Mooresville - Environmental Health
ronda.hart@co.iredell.nc.us
Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

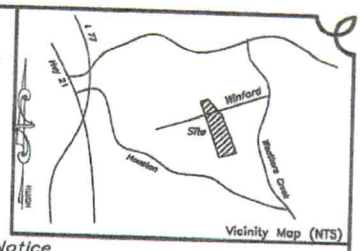
Statesville - Environmental Health
adrienne.shea@co.iredell.nc.us
Fax: 704-871-3483
349 N. Center Street, Statesville, NC 28677


Margie L. Rankin
D.B. 1700, Pg. 914
Winford Road
60' R/W Shown for Planning
No Recorded Reference
1 ½" EIP
L1
27'
Area
0.72 Acre
including 0.11 Acre in R/W
R/W
EP
L2
57.83'
ent at 4.12'
southeast
½" EIR
W
James Brown
D.B. 2887, Pg. 2242
RELATIVE TO NCGS GRID NAD83
SCALE
1" = 40'
44.64'
18" RCP
L3
41.41'
15" CMP
42.04'
35' Front Setback
S 29°17'51"E 171.57'
35.54'
Proposed Gravel Drive
B1
Proposed House
15.02'
SF
t at 557.10'
neast of line
193.24'
1
enterline
rainage
itch
L5 Proposed Gravel Drive
1 R 83' (78')
2 O 96' (78')
B2
B3
3 Y 98' (78')
4 P 101' (78')
5 R 107'
6 Y 25'
7 O 74'
8 B 47'
90.41'
1 ¼" EIR
rt
tewart
1
N 03°00'41
36.82'
S 85°38'21"W 132.75'
B5

Course	Bearing	Distance
L1	N 84°56'10" E	64.00'
L2	S 29°16'37" E	60.51'
L3	S 41°12'42" W	52.78' New Line
L4	N 03°00'58" W	102.47' Total
L5	N 03°00'44" W	234.65' Total

Zoning

ZONING: RA (Iredell County)
Building Setbacks
Front – 35'
Side – 15'
Rear – 35'



Legend

CAPS ON MONUMENTS SET CONTAIN THE SURVEYORS NAME AND LICENSE NUMBER.
○ 1/2" IRON ROD SET WITH YELLOW CAP
● EXISTING MONUMENT FOUND AS INDICATED
× COMPUTED POINT
▲ STONE
(W) ..... WELL
EIP ..... EXISTING IRON PIPE AS SHOWN
EIR ..... EXISTING IRON ROD AS SHOWN
EN ..... EXISTING ANGLE IRON AS SHOWN
PIN ..... PARCEL IDENTIFICATION NUMBER
EP ..... EDGE OF PAVEMENT
R/W ..... RIGHT OF WAY
NTS ..... NOT TO SCALE
CMP ..... CORRUGATED METAL PIPE
RCP ..... REINFORCED CONCRETE PIPE
LINE SURVEYED
TIE LINE SURVEYED
LINE NOT SURVEYED
R/W RIGHT-OF-WAY LINE
DITCH LINE
SETBACK LINE

Notice

* Property subject to any easements and right of way on record, and all NCDOT easements and rights of way.
* This survey is subject to any facts that may be disclosed by a full and accurate title search.
* Area determined by coordinate computations.
* No NGS or NCGS Horiz. Control Monument found within 2,000 feet of the site.
* This survey plat does not show any unrecorded, written or unwritten easements, dedications or other encumbrances. Such burdens could exist on this property and not appear on this plat. Accordingly, users of this plat are warned to remain alert for the existence of such unrecorded burdens not shown hereon.
* This plat was drawn for the exclusive use of the party named hereon. Said certificates do not extend to any unnamed person without an express recertification by the surveyor naming said person.
* The Global Navigation Satellite System (GNSS) was used to perform to geospatial positioning accuracy standards, part 2 standards for geodetic networks at the 95% confidence accuracy classification (95% confidence) using real time kinematic.

I, Ted M Benbow, certify that this map was drawn under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey; and that this map meets the requirements The Standards of Practice for Land Surveying in North Carolina (21 NCAC 56.1600).

Class of Survey: CLASS AA
Positional Accuracy: 0.05'
Type of GPS Field Procedure: RTK
Dates of Survey: 01/02/2023-01/23/2023
Datum/Epoch: NAD83 (2011)
Published/Fixed-Control Use: VRS
GEOID Model: 2018
Combined Grid Factor: 0.99986306
Units: US Survey Feet

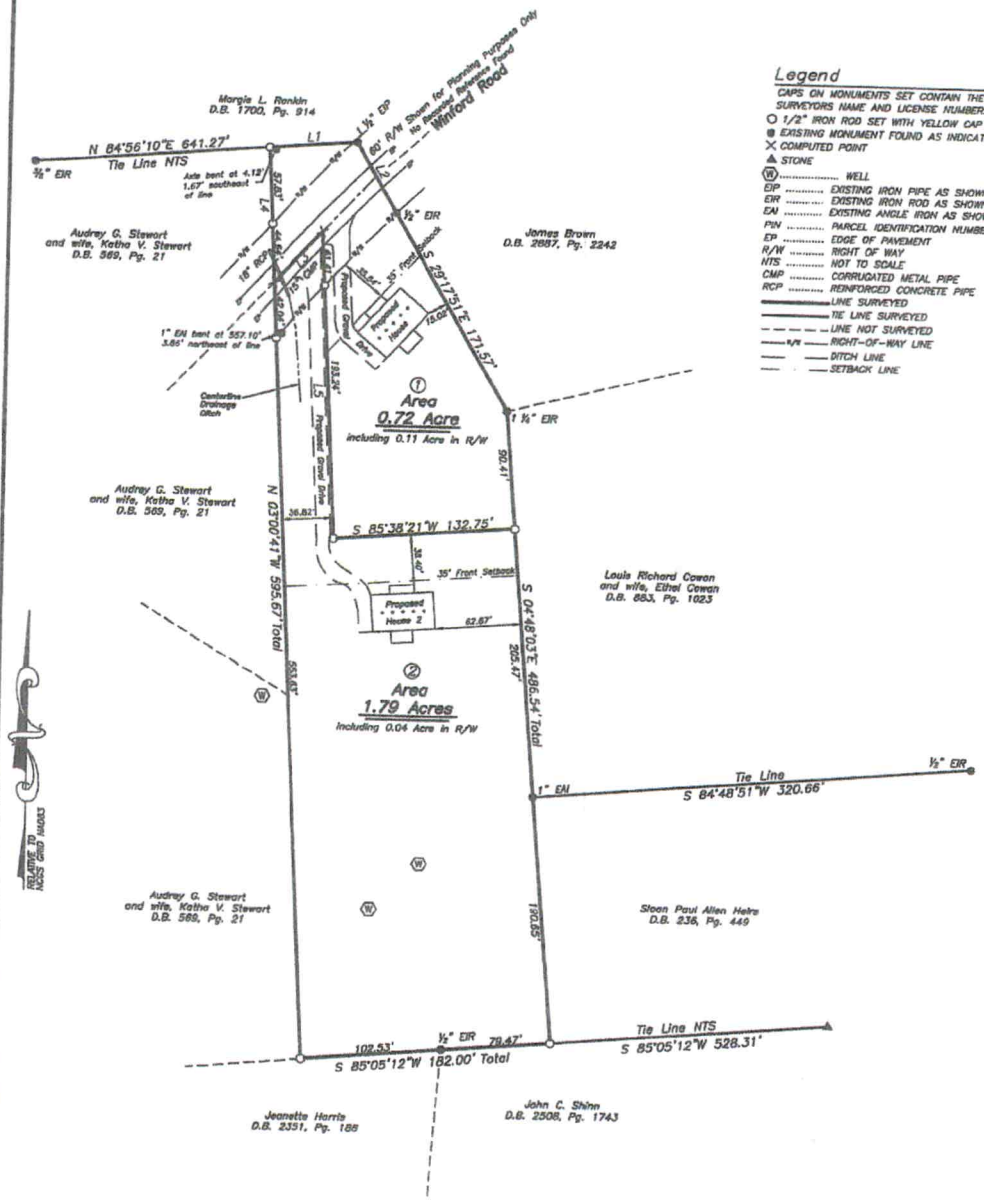
Witness this my original signature, registration number and that this plat was prepared in accordance with G.S. 47-30 as amended. That this plats meets the requirement of G.S. 47-30. I further certify that this survey creates a subdivision of land within the area of a county or municipality that has ordinance that regulates parcels of land.

Witness this my original signature, registration number and seal this 7th day of March 2023 A.D.

Ted M. Benbow NC PLS L-3175
Firm License # C-1588

NORTH CAROLINA PROFESSIONAL SEAL L-3175 LAND SURVEYOR TED M. BENBOW

Unless otherwise indicated, all distances shown are grid distances. To convert to ground distance, divide the grid distance by the combined factor.



60 0 60 120 180
GRAPHIC SCALE – 1" = 60'

TED BENBOW Land Surveying
Proudly Surveying Iredell County
Since 1989
630 SIGNAL HILL DRIVE EXT., STATESVILLE, NC 28625
PHONE (704) 878-9661
www.boundarydevelopment.com

Flood Hazard Area Certificate

According to mapping provided by the Federal Emergency Management Agency and shown on the Digital Flood Insurance Rate Map (DFIRM) Panel 4760, Iredell County, North Carolina, effective date: 6/16/2006, the property shown hereon is not located within a special flood hazard area. The property is entirely within an area designated "Zone X – other areas". Areas determined to be outside the 0.2% annual chance floodplain: areas outside future conditions 1% annual chance floodplain.

Site Plan For:

Ivery Graham

Barringer Township, Iredell County, NC
Owners of Record: Chanika S. Graham and husband, Ivery L. Graham
Deed Reference: D.B. 2968, Pg. 1588
Plat Reference: P.B. 79, Pg. 44
PIN: 4760-06-0457
Job Number: 2212393site.DWG (2212393.CRD)
Field Work: 01/23/2023
Plat Date: 03/07/2023 Drawn By: DP & SR

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Project#: 22-0174
April 3rd, 2023

Ivory Graham
Attn: *Ivory Graham*
Email: all5grahams@gmail.com

RE: Soil & Site Evaluation for a 3 Bedroom Residence at 121 Winford Rd, 0.72 ac Parcel, PIN# 4760060676, Troutman, NC 28166.

Mr. & Mrs. Graham:

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 partially cleared/graded for the house pad and open field. Topography within the evaluated area was gentle slope near the house site and proposed drainfield area. Property lines and corners were marked at the time of the evaluation by Benbow Land Surveying. The surveyor provided an Autocad File of a survey with house envelopes as a basemap. The proposed septic layout was located via GPS & tape measures and used to produce the attached *Site Plan*. The house envelope was located via Survey by Ted Benbow. Auger Borings were located via GPS.

Methodology

We evaluated soil areas through the use of auger borings. Soil morphological conditions including color, texture, structure, etc. were reviewed in the field with four boring locations on the property flagged and located via GPS. Three of the four 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 pit. The house envelope was located via survey. An on-ground layout of system and repair was performed using a laser level. Pin flag locations of the layout were also located by GPS and tape measures. Detailed system & repair information is summarized in the following paragraph for this Lot.

121 Winford- Lot 1 (*See Attached Design*)
The septic layout for this lot (9' centers) yielded a total of 631 linear feet of line. The primary system is proposed as 312 linear feet of Accepted (25% Reduction) drainfield with gravity distribution. Trench depth is specified at 30 inches (Low Side).The repair system is proposed as 200 linear feet of PPBPS (50% Reduction) drainfield with low pressure distribution. Trench depth is specified at 30 inches (Low Side). There is 319 linear feet of repair available.

Session Law Requirements

All information needed to issue the IP must be submitted with the application. 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/LG evaluation(s) attached to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3)."

Owner

Date

Print Name Ivey Graham
Signature [signature] 4/17/23

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 G.S. 130A-335(a2)."

Disclaimer
This report reflects the findings of S&FS, PA. *This LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2)."* Any site modifications that impact the proposed septic areas on the site may nullify this design for 121 Winford Road, Troutman NC 28166. 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,

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

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

GRAVITY ACCEPTED SYSTEM FOR WASTEWATER TREATMENT

Owner/Applicant: Ivery Grahm

Address: 145 Windemere Isle rd
Statesville NC 28677

Phone: 704-609-1328

County: Iredell

Location: 121 Winford Road
Troutman, NC 28166

Source of Wastewater Flow: 3 Bedroom Single Family Residence

Estimated Gallons Per Day Flow: 360

System Flow: N/A

Design Specifications

Drainfield Size: 300

Loading Rate (gpd/ft.^{2}): 0.3

Depth of Gravel in Trench: N/A

Gravel Size: N/A

Max.Trench Depth (LOW SIDE): 30 in. Repair Trench Bottom 30 in.

Trench Width: 36 in.

Septic Tank Size: 1000

Estimated Supply Line Length: 10

Supply Line Diameter: 4 in. SCH 40 PVC

Supply Line Volume: 6.53

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

121 Winford Road

ACCEPTED SYSTEM

DESIGN FLOW (gpd):	360
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.3
TOTAL AREA TRENCH BOTTOM:	936
TOTAL LATERAL LENGTH:	312
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	300
SUPPLY LINE LENGTH:	10
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 -121 Winford Rd -Lot 1

22-0174

LAYOUT FOR 3 BEDROOM HOME

April 3, 2023

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM							
INSTR. 1							
1	***RED***					*83*	*78*
2	***ORANGE***					*96*	*78*
3	***YELLOW***					*98*	*78*
4	***PINK***					*101*	*78*
5	RED					107	107
6	YELLOW					25	25
7	ORANGE					74	74
8	Blue					47	47
					Total	631	565

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION	LOW SIDE TRENCH DEPTH
** System*	*312*	*0.300*	*ACCEPT.*	*0.300*	*25% RED*	*GRAVITY*	30"
Repair	319	0.300	MOD CONV	0.300	PPBPS	LOW PRESSURE	30"

Notes: **All measures in feet

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

**Nitrification lines were located by GPS and tape measure.

**Property corners & lines located by survey (Ted Benbow Surveyors)

CALCULATIONS

Location 121 Winford Road
Troutman NC 28166
Project Number 22-0174

Lot No: 1

No. of Bedrooms 3

Design Flow 360 $^{gal}/_{day}$

LTAR 0.300 $^{gal}/_{ft^2\ day}$

PPBPS? (YES OR NO) NO

Supply Line Length 10 ft.

Supply Line Volume 6.53 gal.

Required Feet of Line 300 ft.
Amount of Line from Layout 312 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 #: 4760060676

COUNTY: Iredell

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

OWNER: Ivery Graham

ADDRESS: 145 Windemere Isle Road, Statesville, NC 28677

PROPOSED FACILITY: 3BR Residence

LOCATION OF SITE: 121 Winford Road, Troutman, NC 28166

APPLICATION DATE:

DATE EVALUATED: 12/13/2022

PROPERTY SIZE: 0.72 ac

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)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPR CLASS	.1944 RESTR HORIZ	
1	L/9%	0-2 2-28 28-50	BCLWFSBK BRCWMSBK RBSCLWFSBK	FRSSSP FRSP FRSSSP	few to c sap	50			PS 0.3
2	L/8%	0-12 12-28 28-50	RBCLWFSBK RBCWMSBK RBSCLWFSBK	FRSSSP FRSP FRSSSP	c sap	50			PS 0.3
3	L/6%	0-7 7-27 27-50	RBCLWFSBK BRCWMSBK RBSCLWFSBK	FRSSSP FRSP FRSSSP	c sap	50			PS 0.3
5	L/8%	0-2 2-26 26-50	BCLWMSBK BRCWMSBK RBCLWFSBK	FRSS FRSSS FRSSS		50			PS 0.3
5									
6									
7									
8									
9									
10									



DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Types(s)	ACCEPTED	PPBPS
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:

County: Iredell

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

PIN/Lot Identifier: 4766006076

Issued To: Ivery Brahm

Property Location: 121 Winford Rd Troutman NC 28166

Subdivision: Ivery Brahm Lot #: 1 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: Accepted 25% reduction gravity (Initial) PPBPS (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: 360 GPD Proposed LTAR (Initial): 0.3 Proposed LTAR (Repair): 0.3

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

Number of bedrooms: 3 Number of Occupants: 6 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 A Rollins

Licensed Soil Scientist Signature: Samuel A Rollins Date: 4/14/23

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

See attached site sketch

County: Iredell

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

PIN/Lot Identifier: 4760060076

Issued To: Ivery Graham

Property Location: 121 winfred Rd Troutman NC 28166

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** Accepted 25% Reduction Gravity (Initial) ~~Same~~ PPBPS (Repair)

Design Daily Flow: 360 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: 312 feet Trench/Bed Spacing: 9 feet on center

Drainfield square footage: 936 Trench/Bed Width: 36 inches LTAR: 0.3 gpd/ft²

Soil Cover: 6" min inches Slope Adjusted Maximum Trench/Bed Depth: 30 inches (LOW SIDE)

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: Ivery Graham

Owner/Legal Representative Signature: Ivery Graham Date: 4/17/23

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 A. Rollins

AOWE/PE Signature: Samuel A Rollins Date: 4/14/23

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 Certification Number 10027E EVALUATOR

County: Iredell

This Section for Local Health Department Use Only

Initial submittal received: 4/27/2023 (*Date*) by BB (*Initials*)

Permit Number: OSWP - 2023-22362

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 Botkins Date of Issuance: 4/28/2023

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: 4/28/2028

See attached site sketch

County: Iredell

This Section for Local Health Department Use Only

Initial submittal received: 4/26/2023 (*Date*) by BB (*Initials*)

Permit Number: OSWP - 2023- 22362

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 Botkins Date of Issuance: 4/28/2023

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: 4/28/2028

See attached site sketch