BLDR-2023-26373

ICHD - ENVIRONMENTAL HEALTH DIVISION

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

PERMIT # OSWP-2023-25594

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

PIN # 3784-20-7075

APPLICANT / OWNER: James Belofski APPLICANT ADDRESS: 1 E green Rd, Rock tavern, NY 12575

SITE ADDRESS: 143 SUMMERHUT LN, STATESVILLE, NC 28625 PHONE: ALT. PHONE:

SITE DIRECTIONS: N Sharon School -> L Island Ford -> R Old Lion -> L Summerhut -> lot on L SAP CONTROLLED: YES ☐ NO ☑

SUBDIVISION: N/A SECTION: N/A LOT #: N/A LOT AREA: 1.08 DESIGN FLOW: 360 L.T.A.R.: 0.3

Septic Tank: 1000 (gal)	STB: 7410	Date: 12/19/23	☒ New System ☐ Repair ☐ Expansion	System Type: III	☑ Residence	No. Bedrooms: 3	Water Supply: New Well
Pump Tank: 1000 (gal)	PT: 3103	Date: 12/10/23	System Description: HPPBPS - PM		☐ Business	No. Persons: 6	
Pump Make: ~~Zoeller~~	Model: ~~2660~~	Serial #:	Repair System Description: LPHPPBPS		☐ Other	No. Employees:	
# Nitrification Fields: 1	# Lines: 3	Linear Ft.: 201	Maintenance Agreement Required: ☐ YES ☑ NO		☐ Slab	☐ Crawl Space	
Trench Width: 36	Trench Bottom Depth (Low side): 22		Gravel Depth: 0	☐ GRAVITY ☑ PRESSURE	☑ Basement w/ Plumbing	☐ Basement w/o Plumbing	

Comments / Conditions: Do not pave, grade, drive, park, or bury utilities in drain field area. Install on contour & according to all specifications in design by Ashely Rollans, LSS.

INITIAL SITE SKETCH

Champion CPSTEP1025 1HP

This permit is issued pursuant to G.S. 130A-335(a2), (a3) & (a4) using the signed and sealed LLS/LG Evaluation attached here, from:

Soil & Forestry Svcs of Cardinas - Ashley Rollans

LSS# 1231 / 10027E AOWE

AS BUILT SKETCH

BEFORE OP

Verify: ditch filled in front

→ extend soil 15' from tanks OR 25' if wall has a drain behind it

Tanks, Lines, Floats, PM 2/14/24 DW

PH, Alarm 6/12/24 CW

Lines still flagged @ install - See permit for location

* Check ditch to be filled & electrical *

DITCH FILLED + ELECTRICAL SW 6/20/24

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: D. Mebey Date: 7/26/23

AUTHORIZATION TO CONSTRUCT by: D. Mebey Date: 7/26/23

Installed By: Maiden Grading

OPERATION PERMIT by: Sarah Williams Date: 6/20/2024

Existing System Inspected By: Date:

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

ICHD - ENVIRONMENTAL HEALTH DIVISION

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

PERMIT # OSWP-2023-25594

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

PIN # 3784-20-7075

APPLICANT / OWNER: James Belofski APPLICANT ADDRESS: 1 E green Rd, Rock tavern, NY 12575

SITE ADDRESS: 143 SUMMERHUT LN, STATESVILLE, NC 28625 PHONE: ALT. PHONE:

SITE DIRECTIONS: N Sharon School -> L Island Ford -> R Old Lion -> L Summerhut -> lot on L SAP CONTROLLED: YES ☐ NO ☑

SUBDIVISION: N/A SECTION: N/A LOT #: N/A LOT AREA: 1.08 DESIGN FLOW: 360 L.T.A.R.: 0.3

Septic Tank: 1000 (gal)	STB:	Date:	☒ New System ☐ Repair ☐ Expansion	System Type: III	☑ Residence	No. Bedrooms: 3	Water Supply: New Well
Pump Tank: 1000 (gal)	PT:	Date:	System Description: HPPBPS - PM		☐ Business	No. Persons: 6	
Pump Make:	Model:	Serial #:	Repair System Description: LPHPPBPS		☐ Other	No. Employees:	
# Nitrification Fields: 1	# Lines: 3	Linear Ft.: 201	Maintenance Agreement Required: ☐ YES ☑ NO		☐ Slab	☐ Crawl Space	
Trench Width: 36	Trench Bottom Depth (Low side): 22		Gravel Depth: 0	☐ GRAVITY ☑ PRESSURE	☑ Basement w/ Plumbing	☐ Basement w/o Plumbing	

Comments / Conditions: Do not pave, grade, drive, park, or bury utilities in drain field area. Install on contour & according to all specifications in design by Ashely Rollans, LSS.

INITIAL SITE SKETCH

This permit is issued pursuant to G.S. 130A-335(a2), (a3) & (a4) using the signed and sealed LLS/LG Evaluation attached here, from:

Soil & Forestry Svcs of Carolinas - Ashley Rollans

LSS# 1231 / 10027E AOWE

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

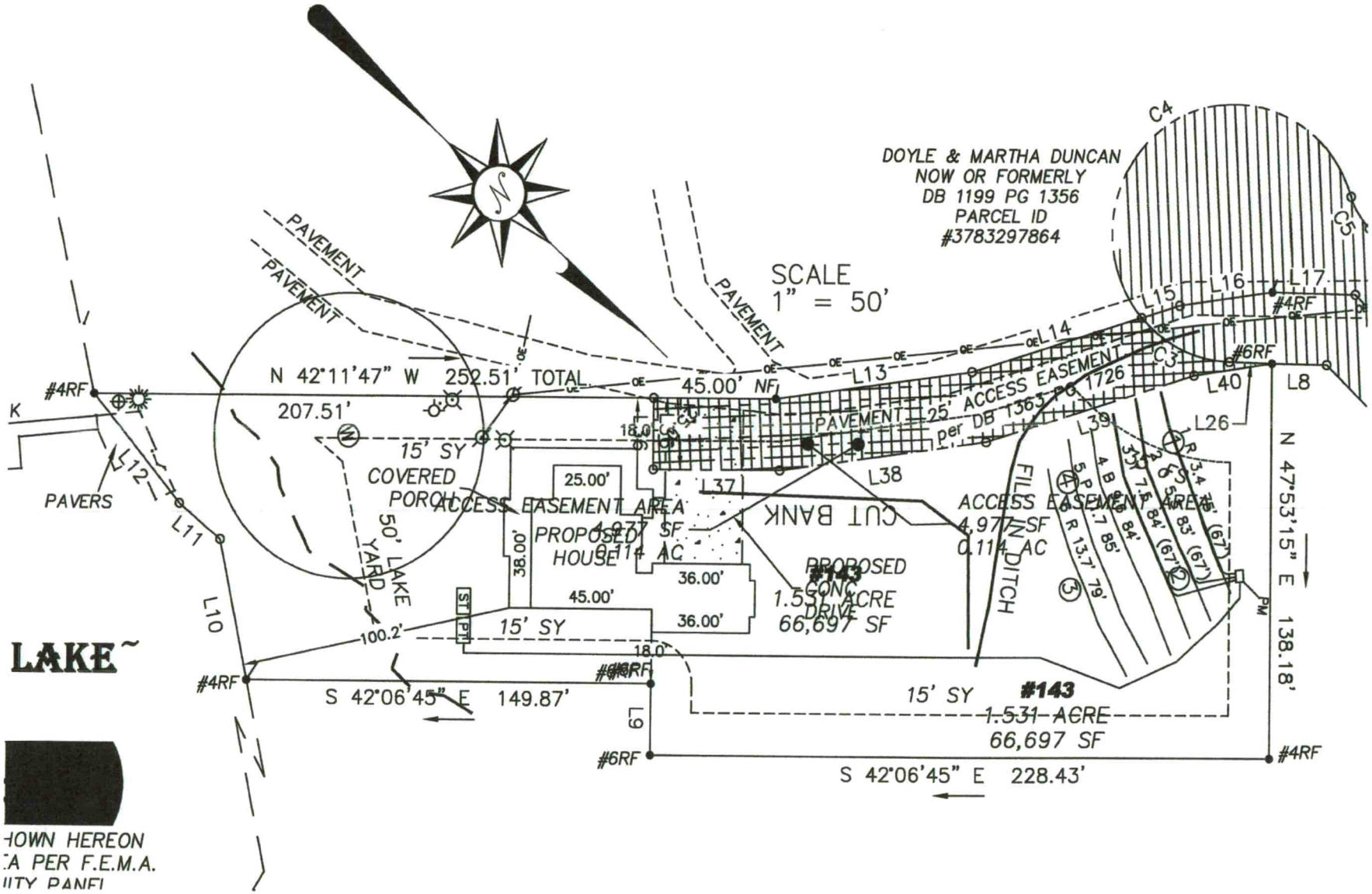
☐ **IMPROVEMENT PERMIT with plat** valid without expiration. ☑ **IMPROVEMENT PERMIT with site plan** valid for 60 mos. ☑ **AUTHORIZATION TO CONSTRUCT** valid for period equal to **IMPROVEMENT PERMIT**--not to exceed 60 mo.

Owner / Applicant Signature: Date: Installed By:

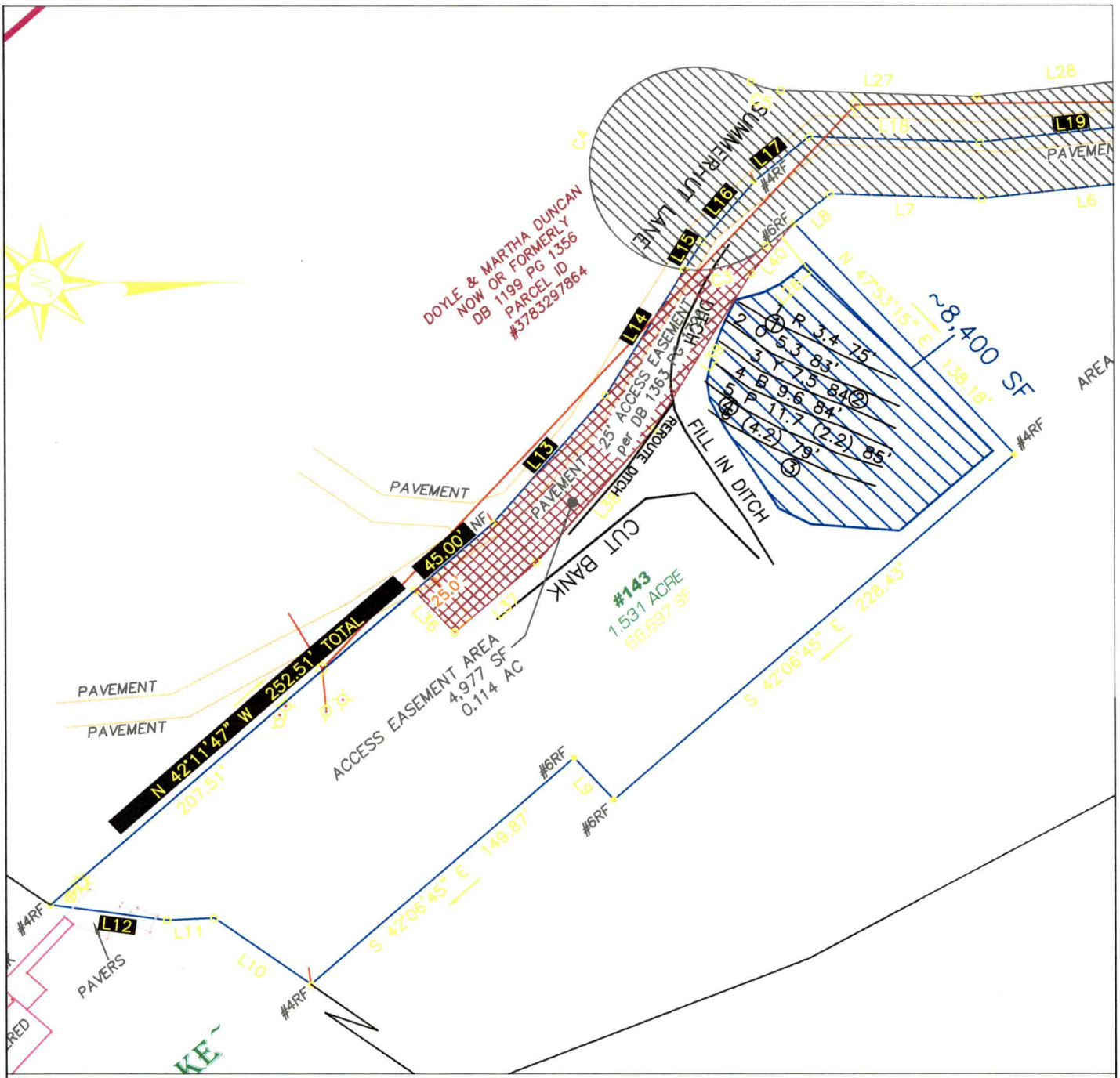
IMPROVEMENT PERMIT by: D. Mebey Date: 7/26/23 OPERATION PERMIT by: Date:

AUTHORIZATION TO CONSTRUCT by: D. Mebey Date: 7/26/23 Existing System Inspected By: Date:

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



HOWN HEREON
A PER F.E.M.A.
ITY PANEL



LEGEND

Areas contain at least 42 inches of usable material and have potential for accepted, modified conventiona and conventional septic systems.

UNSUITABLE

(B2) Boring Locations.

GRAPHIC SCALE
1'=60'

60 0 60 120

FOR PRELIMINARY PLANNING PURPOSES ONLY. ALL LOTS WILL REQUIRE FINAL APPROVAL BY THE COUNTY HEALTH DEPARTMENT ON A LOT BY LOT BASIS. THIS MAP SHOULD BY USED AS A GENERAL GUIDE, SOME ADJUSTMENTS WILL BE NECESSARY IN THE FIELD DUE TO SOIL VARIABILITY AND COMPLEX TOPOGRAPHIC FEATURES.
THIS MAP ONLY REFLECTS EXISTING SOIL SUITABILITY FOR ON-SITE SEPTIC TANK SYSTEMS.

SOIL & FORESTRY SERVICES OF THE CAROLINAS, PA.
P.O. BOX 832
MOORESVILLE, NC 28115
PHONE: (704) 746 - 5046
ASHLEY ROLLANS, NC LICENSED SOIL SCIENTIST
MOBILE: (704) 746 - 5046
EMAIL: ASHLEYROLLANS@GMAIL.COM

MAP TITLE: PRELIMINARY SOIL EVALUATION & SEPTIC LAYOUT

PROJECT NAME: JAMES BELOFSKI/ 143 SUMMERHUT LANE

LOCATION/DATE: 143 SUMMERHUT LANE IREDELL COUNTY, NORTH CAROLINA AUGUST 2022

JOB # :	22-0113
FILE:	C:\JOBS\22-0113
PROJECT MGR.:	S.A.R.
FIELD WORK:	S.A.R.
DRAWN BY:	S.A.R.

NCDHHS

Permit #: OSWP-2023-25594

This Section for Local Health Department Use Only

Initial submittal received: 7/21/23 (*Date*) by BW (*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: Danielle Wisberg Date: 7/26/23

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 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 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 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 evaluations, submittals, or actions from a licensed soil scientist or licensed geologist pursuant to GS 130A-335(a2).

Improvement Permit Expiration Date: 7/26/28

See attached site sketch

Permit #: DSWP-2023-25594

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

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

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

County: Iredell
PIN/Lot Identifier: 3784 20 7075
Issued To: James Belofski
Property Location: 143 Summershut Lane Statesville NC 28625
Subdivision (if applicable)_____ Lot #:_____ Block:_____ Section:_____
LSS Report Provided: Yes ☑ No ☐
If yes, name and license number of LSS: Samuel Ashley Rollins #1231
New ☑ Expansion ☐ System Relocation ☐ Change of Use ☐
Proposed Structure: 3 Bedroom Home
Number of bedrooms: 3 Number of Occupants: 6 Other:_____
Design Wastewater Strength: ☑ domestic ☐ high strength ☐ industrial process
Proposed Design Daily Flow: 360 GPD Proposed LTAR (Initial): .3 Proposed LTAR (Repair): .3
Proposed Wastewater System Type*: HPPBPS Pressure Manifold (Initial) Pump Required: ☑ Yes ☐ No ☐ May be required
Proposed Wastewater System Type*: Low Pressure HPPBPS (Repair) Pump Required: ☑ Yes ☐ No ☐ May be required
**Please include system classification for proposed wastewater system types in accordance with 15A NCAC 18A .1961 Table V(a)*
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 Soil Depth (Initial): 42" Usable Soil Depth (Repair): 50"
Max. Trench Depth (Initial)‡: 22" Max. Trench Depth (Repair)‡: 22" ***‡ 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 .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: 7/21/23

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

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

NCDHHS

Permit #: OSWP-2023-25594

This Section for Local Health Department Use Only

Initial submittal received: 7/21/23 (*Date*) by BW (*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: Danielle Wisberg Date of Issuance: 7/26/23

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: 7/26/28

See attached site sketch

Permit #: OSWP-2023-25594

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

County: Iredell

PIN/Lot Identifier: 3784 20 7075

Issued To: James Belofski

Property Location: 143 Sumachut Lane Statesville NC 28625 AOWE# = 10027E

AOWE/PE Plans/Evaluations Provided: Yes ☑ No ☐ If yes, name and license number of AOWE/PE: Samuel Ashley Rollins #1231

Facility Type: 3 Bedroom Home

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

Basement? ☑ Yes ☐ No Basement Fixtures? ☑ Yes ☐ No

Type of Wastewater System* HPPBPS (Initial) Low Pressure HPPB PS (Repair)

**Please include system classification for proposed wastewater system types in accordance with 15A NCAC 18A .1961 Table V(a)*

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
(if yes, please provide engineering documentation)

Installation Requirements/Conditions

Septic Tank Size: 1000 gallons Total Trench/Bed Length: 201 feet Trench/Bed Spacing: 9 feet on center

Trench/Bed Width: 36" inches LTAR: .3 gpd/ft²

Soil Cover: 6 inches min Slope Corrected Maximum Trench/Bed Depth‡: 22 inches ‡ ***Measured on the downhill side of the trench***

Aggregate Depth: _____inches above pipe _____inches below pipe _____inches total

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

Pump Requirements: 6975 ft. TDH vs. 151.20 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

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 Expiration Date: 12/31/23

AOWE/PE Signature: Samuel A Rollins Date: 7/21/23

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

NC ONSITE WASTEWATER EVALUATOR Certification Number 10027E

See attached site sketch

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.
- Pumptank riser should be 6" above grade, control panel should be 12" above grade.
- Septic tank riser shall be a minimum of 6" above finished grade.
- System is specified as a HPPBPS installation with pressure manifold distribution.
- Repair is specified as a HPPBPS installation with low pressure distribution.
- Backfill 4 - 6" of material (County Approved) over panels, rake trench walls, lime side-walls, install trenches 36" wide and have no more than 1/4" fall in 10 feet.

PRESSURE MANIFOLD HPPBPS SYSTEM FOR WASTEWATER TREATMENT

Owner/Applicant:	James Belofski
Address:	1 E Green Rd Rock Tavern, NY 12575
Phone:	
County:	Iredell
Location:	143 Summerhut Lane Statesville, NC 28625
Source of Wastewater Flow:	3 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	360 gpd
System Flow:	21.33 gpm

Design Specifications

Drainfield Size:	201
Loading Rate (gpd/ft.^{2}):	0.3
Depth of Gravel in Trench:	NA (PPBPS)
Gravel Size:	NA (PPBPS)
Trench Depth (Low Side):	22 in., Repair 22 in.
Trench Width:	36 in.
Septic Tank Size:	1000
Pump Tank Size:	1000
Estimated Supply Line Length:	305
Supply Line Diameter:	2 in. SCH 40 PVC
Supply Line Volume:	53.07
Dosing Volume:	162.00
Supply Manifold:	N/A
Supply Manifold Length:	N/A
Supply Manifold Volume:	N/A
Recommended Float Controls:	SJE Sensor Float Control Switches as Required for Control Panel or County Approved Equivalents
Recommended Control Panel:	SJE-Rhombus Model 112 (NEMA 4x) Control Panel or County Approved Control Panel.
Pressure Head:	2 ft.
Friction Head:	3.87
Elevation Head:	68.00
Total Dynamic Head:	84.95
Threaded Union:	In Tank
Gate Valves:	1 in Tank 1 per lateral
Check Valves:	In Tank
Anti-Siphon Hole:	NA
Additional Comments:	Soil suitability was performed by Soil & Forestry Services of the Carolinas, PA

143 Summerhut Lane

PRESSURE MANIFOLD HPPBPS

DESIGN FLOW (gpd):	360
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.3
TOTAL AREA TRENCH BOTTOM:	402
TOTAL LATERAL LENGTH:	201
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	200
SUPPLY LINE LENGTH:	305
TOTAL DYNAMIC HEAD:	84.95
MANIFOLD SIZE:	N/A
DOSING VOLUME:	162.00
PUMP TANK DRAW DOWN*:	7.7
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	1000

**Pump tank draw down based on a volume basis of 21 gallons per inch. Draw down may vary among pump tank manufacturers.*

143 Summerhut Lane

Project #: 22-0171

LAYOUT FOR 3 BEDROOM HOME

June 21, 2023

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM	Nail in pavement			4.70			
INSTR. 1 HOUSE CNR	(LEFT REAR)						
P. TANK					850.00		
1	***RED***			***3.40***	***912.20***	***75***	***67***
2	***ORANGE***			***5.30***	***910.30***	***83***	***67***
3	***YELLOW***			***7.50***	***908.10***	***84***	***67***
4	BLUE			9.60	906.00	84	84
5	PINK			11.70	903.90	85	85
6	RED			13.70	901.90	79	79
					Total	**490**	**449**

	LINE LENGTH	LTAR GPD/FT^2	SYSTEM TYPE	SOIL LTAR GPD/FT^2	TRENCH SYSTEM	DISTRIBUTION	(Low Side) TRENCH DEPTH
** System*	***201***	***0.300***	***MOD. CONV.***	***0.300***	***HPPBPS***	**PRESSURE MANIFOLD**	***22"***
Repair	***248***	***0.300***	***MOD. CONV.***	***0.300***	***HPPBPS***	**LOW PRESSURE**	***22"***

Notes:

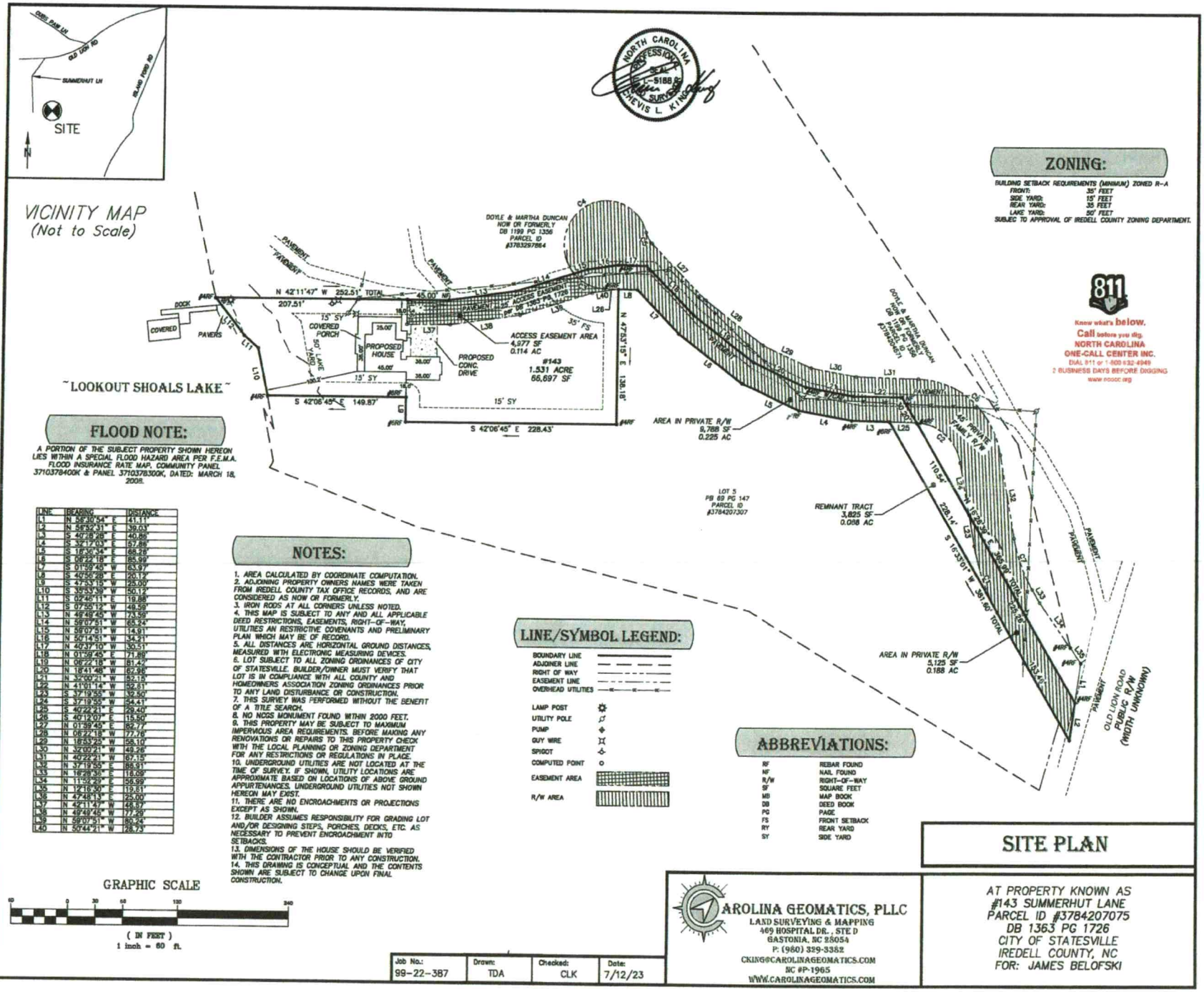
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags
**Nitrification lines were located via GPS & Tape Measure

PRESSURE MANIFOLD HPPBPS TAPSHEET -143 Summerhut Lane

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/Tap	Trench Area	No.of Panels	LineLTAR
1	***RED***	***912.20***	*67*	*SCH 40 1/2*	*7.11*	*134*	***15***	0.407
2	***ORANGE***	***910.30***	*67*	*SCH 40 1/2*	*7.11*	*134*	***15***	0.407
3	***YELLOW***	***908.10***	*67*	*SCH 40 1/2*	*7.11*	*134*	***15***	0.407

	total	**feet =**	**201**	**gal/min =**	**21.33**		45
			Des. Flow	**360**			
			Pump Run=	**7.59**			
			soil LTAR	**0.3**			
			LTAR +5%	**0.315**			
			LTAR with mod.	**0.6**			
			LTAR with mod.. + 5%	**0.63**			



ZONING:

BUILDING SETBACK REQUIREMENTS (MINIMUM) ZONED R-A

FRONT:	35' FEET
SIDE YARD:	15' FEET
REAR YARD:	35 FEET
LAKE YARD:	50' FEET

SUBJEC TO APPROVAL OF IREDELL COUNTY ZONING DEPARTMENT.

811 Know what's below. Call before you dig.
NORTH CAROLINA ONE-CALL CENTER INC.
DIAL 811 or 1-800 632-4949
2 BUSINESS DAYS BEFORE DIGGING
www.ncocc.org

FLOOD NOTE:

A PORTION OF THE SUBJECT PROPERTY SHOWN HEREON LIES WITHIN A SPECIAL FLOOD HAZARD AREA PER F.E.M.A. FLOOD INSURANCE RATE MAP, COMMUNITY PANEL 3710378400K & PANEL 3710378300K, DATED: MARCH 18, 2008.

LINE	BEARING	DISTANCE
L1	N 58°30'54" E	41.11'
L2	N 58°52'31" E	39.03'
L3	S 40°18'28" E	40.85'
L4	S 32°17'03" E	57.86'
L5	S 16°39'34" E	66.26'
L6	S 08°22'18" E	85.99'
L7	S 01°59'45" W	63.97'
L8	S 40°58'28" E	20.12'
L9	S 47°53'15" W	25.00'
L10	S 39°53'39" W	50.12'
L11	S 02°45'11" E	19.88'
L12	S 07°50'12" W	48.59'
L13	N 49°49'45" W	73.59'
L14	N 58°07'51" W	65.24'
L15	N 58°07'51" W	14.91'
L16	N 58°12'51" W	34.31'
L17	N 40°37'10" W	30.51'
L18	N 01°59'45" E	71.88'
L19	N 08°22'18" W	81.42'
L20	N 16°41'48" W	62.96'
L21	N 25°09'21" W	29.15'
L22	N 41°01'14" W	52.61'
L23	S 37°19'55" W	32.50'
L24	S 37°19'55" W	54.41'
L25	S 40°29'21" E	29.40'
L26	N 49°12'00" E	115.59'
L27	N 01°39'45" E	82.77'
L28	N 08°22'18" W	77.76'
L29	N 16°53'25" W	58.10'
L30	N 32°09'21" W	49.26'
L31	N 40°29'21" W	67.15'
L32	N 37°19'55" E	68.91'
L33	N 16°29'36" E	16.09'
L34	N 11°52'49" E	56.99'
L35	N 16°39'01" E	119.51'
L36	N 47°48'13" E	25.00'
L37	N 42°11'47" W	48.87'
L38	N 49°49'45" W	77.29'
L39	N 58°07'51" W	80.24'
L40	N 50°44'21" W	28.73'

NOTES:

1. AREA CALCULATED BY COORDINATE COMPUTATION.
2. ADJOINING PROPERTY OWNERS NAMES WERE TAKEN FROM IREDELL COUNTY TAX OFFICE RECORDS, AND ARE CONSIDERED AS NOW OR FORMERLY.
3. IRON RODS AT ALL CORNERS UNLESS NOTED.
4. THIS MAP IS SUBJECT TO ANY AND ALL APPLICABLE DEED RESTRICTIONS, EASEMENTS, RIGHT-OF-WAY, UTILITIES AN RESTRICTIVE COVENANTS AND PRELIMINARY PLAN WHICH MAY BE OF RECORD.
5. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES, MEASURED WITH ELECTRONIC MEASURING DEVICES.
6. LOT SUBJECT TO ALL ZONING ORDINANCES OF CITY OF STATESVILLE. BUILDER/OWNER MUST VERIFY THAT LOT IS IN COMPLIANCE WITH ALL COUNTY AND HOMEOWNERS ASSOCIATION ZONING ORDINANCES PRIOR TO ANY LAND DISTURBANCE OR CONSTRUCTION.
7. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE SEARCH.
8. NO NCGS MONUMENT FOUND WITHIN 2000 FEET.
9. THIS PROPERTY MAY BE SUBJECT TO MAXIMUM IMPERVIOUS AREA REQUIREMENTS. BEFORE MAKING ANY RENOVATIONS OR REPAIRS TO THIS PROPERTY CHECK WITH THE LOCAL PLANNING OR ZONING DEPARTMENT FOR ANY RESTRICTIONS OR REGULATIONS IN PLACE.
10. UNDERGROUND UTILITIES ARE NOT LOCATED AT THE TIME OF SURVEY. IF SHOWN, UTILITY LOCATIONS ARE APPROXIMATE BASED ON LOCATIONS OF ABOVE GROUND APPURTENANCES. UNDERGROUND UTILITIES NOT SHOWN HEREON MAY EXIST.
11. THERE ARE NO ENCROACHMENTS OR PROJECTIONS EXCEPT AS SHOWN.
12. BUILDER ASSUMES RESPONSIBILITY FOR GRADING LOT AND/OR DESIGNING STEPS, PORCHES, DECKS, ETC. AS NECESSARY TO PREVENT ENCROACHMENT INTO SETBACKS.
13. DIMENSIONS OF THE HOUSE SHOULD BE VERIFIED WITH THE CONTRACTOR PRIOR TO ANY CONSTRUCTION.
14. THIS DRAWING IS CONCEPTUAL AND THE CONTENTS SHOWN ARE SUBJECT TO CHANGE UPON FINAL CONSTRUCTION.

LINE/SYMBOL LEGEND:

BOUNDARY LINE
ADJOINER LINE
RIGHT OF WAY
EASEMENT LINE
OVERHEAD UTILITIES
LAMP POST
UTILITY POLE
PUMP
GUY WIRE
SPIGOT
COMPUTED POINT
EASEMENT AREA
R/W AREA

ABBREVIATIONS:

RF	REBAR FOUND
NF	NAIL FOUND
R/W	RIGHT-OF-WAY
SF	SQUARE FEET
MB	MAP BOOK
DB	DEED BOOK
PG	PAGE
FS	FRONT SETBACK
RY	REAR YARD
SY	SIDE YARD

GRAPHIC SCALE
60 0 30 60 120 240
(IN FEET)
1 inch = 60 ft.

SITE PLAN

AROLINA GEOMATICS, PLLC
LAND SURVEYING & MAPPING
469 HOSPITAL DR., STE D
GASTONIA, NC 28054
P: (980) 329-3382
CKING@CAROLINAGEOMATICS.COM
NC #P-1965
WWW.CAROLINAGEOMATICS.COM

Job No.:	Drawn:	Checked:	Date:
99-22-387	TDA	CLK	7/12/23

AT PROPERTY KNOWN AS
#143 SUMMERHUT LANE
PARCEL ID #3784207075
DB 1363 PG 1726
CITY OF STATESVILLE
IREDELL COUNTY, NC
FOR: JAMES BELOFSKI

Z:\Shared\CG SURVEY 2022\099\99- MISC\99-22-387 143 SUMMERHUT LN\143 SUMMERHUT LN.dwg

CALCULATIONS

Location	143 Summerhut Lane Statesville, NC 28625	
Project Number	22-0113	
Lot No:		
No. of Bedrooms	3	
Design Flow	360	$^{gal}/_{day}$
LTAR	0.3	$^{gal}/_{ft^2\ day}$
PPBPS? (YES OR NO)	YES	
Supply Line Length	305	ft.
Supply Line Volume	53.07	gal.
Required Feet of Line	200	ft.
Amount of Line from Layout	201	ft.
Gallons per Minute	21.33	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Pump Tank Capacity	1000	gal.
Panel Volume	3.6	gal.
# of Panels	45	
Dosing Volume	162.00	gal.

Note: Dosing Volume based on 100% of # of panels times 3.6 gal/panel

Tank Draw Down	7.7	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	7.59	minutes
Elevation Head	68	ft.
Pressure Head	2	ft.
Friction Factor	1.27	ft./100 ft. *(From the interpolater.)*
Friction Head	3.87	ft.
Total Dynamic Head (+15%)	84.95	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 #: 3784207075
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Steven Dagenhart
ADDRESS: P.O. Box 5473, Statesville NC 28687
PROPOSED FACILITY: 3 BR
LOCATION OF SITE: 143 Summerhurst Ln, Statesville NC 28625
PROPOSED DESIGN FLOW (.1949): 480 gpd
APPLICATION DATE
DATE EVALUATED: 8/10/22
PROPERTY SIZE: 1.08
PROPERTY RECORDED:
WATER SUPPLY: ☑ Private ☐ Public ☑ 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 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
B 1	L/20%	0-26	BRC wmsbk	Fr SSSP SExP		42"	PS	—	PS 0.3
		26-42	RBCL wfsbk	Fr SS SP					
		42-50	VAR. SL MASS	Fr SS SP					
B 2	L/22%	0-3	RBCL wfsbk	Fr SS SP SG xP		50"	—	—	PS 0.3
		3-50	BRC wmsbk	Fr SS SP	Few Schist Rock				
B 3	L/23%	0-4	RBCL wfsbk	Fr SSSP SExP		50"			PS 0.3
		4-50	BRC wmsbk	Fr SS SP					
B 4	L/22%	0-50	BRC wmsbk	Fr SS SP		50"			PS 0.3

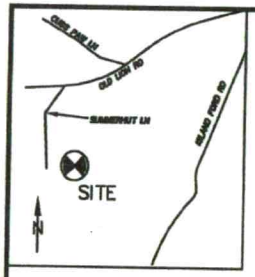
DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	HPPBPS w/PM	HPPBBS (50% Red)
Site LTAR	0.3	0.3

COMMENTS:

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS

EVALUATED BY: S. Ashley Rollans
OTHER(S) PRESENT: Chad Wagner, Mason Freeman

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



VICINITY MAP
(Not to Scale)

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	200.00'	72.80'	72.40'	S 27°08'24" E	20°51'22"
C2	200.00'	69.81'	69.47'	S 01°43'41" E	19°59'58"
C3	200.00'	13.00'	12.99'	S 11°01'00" E	3°43'24"
C4	25.00'	14.70'	14.49'	S 16°58'41" E	33°41'49"
C5	25.00'	15.11'	14.88'	S 16°58'41" E	34°37'49"
C6	200.00'	13.00'	12.99'	N 11°01'00" W	3°43'24"
C7	200.00'	69.81'	69.47'	N 01°43'41" W	19°59'58"
C8	200.00'	72.80'	72.40'	N 27°08'24" W	20°51'22"
C9	155.00'	56.42'	56.11'	N 26°54'15" E	20°51'22"

[redacted]

BUILDING SETBACK REQUIREMENTS (MINIMUM) ZONED R-A
FRONT: 35' FEET
SIDE YARD: 15' FEET
REAR YARD: 35 FEET
LAKE YARD: 50' FEET
SUBJECT TO APPROVAL OF IREDELL COUNTY ZONING DEPARTMENT.

811
Know what's below.
Call before you dig.
NORTH CAROLINA
ONE-CALL CENTER INC.
DIAL 811 or 1-800-632-4949
2 BUSINESS DAYS BEFORE DIGGING
www.ncocc.org

"LOOKOUT SHOALS LAKE"

[redacted]

A PORTION OF THE SUBJECT PROPERTY SHOWN HEREON LIES WITHIN A SPECIAL FLOOD HAZARD AREA PER F.E.M.A. FLOOD INSURANCE RATE MAP, COMMUNITY PANEL 3710378400X & PANEL 3710378300X, DATED: MARCH 18, 2008.

LINE	BEARING	DISTANCE
L1	N 58°07'54" E	61.11'
L2	N 58°07'54" E	36.03'
L3	S 40°28'49" E	65.88'
L4	S 36°41'49" E	57.86'
L5	S 18°58'49" E	58.68'
L6	S 04°58'49" E	58.68'
L7	S 08°01'11" W	58.68'
L8	S 01°58'49" E	58.68'
L9	S 40°58'49" E	58.68'
L10	S 76°01'11" W	25.00'
L11	S 36°58'49" E	50.12'
L12	S 02°41'11" W	19.88'
L13	S 02°58'49" E	58.68'
L14	N 87°01'11" E	58.68'
L15	N 58°07'54" E	58.68'
L16	N 58°07'54" E	14.91'
L17	N 50°14'51" W	14.91'
L18	N 40°58'49" W	50.51'
L19	N 01°58'49" W	71.89'
L20	N 04°58'49" W	58.68'
L21	N 18°58'49" W	58.68'
L22	N 36°58'49" W	58.68'
L23	N 41°01'11" E	58.68'
L24	N 87°01'11" E	58.68'
L25	S 72°18'49" E	58.68'
L26	S 58°07'54" E	58.68'
L27	S 58°07'54" E	58.68'
L28	S 40°58'49" E	58.68'
L29	S 01°58'49" E	58.68'
L30	S 04°58'49" E	58.68'
L31	S 18°58'49" E	58.68'
L32	S 36°58'49" E	58.68'
L33	S 41°01'11" W	58.68'
L34	S 87°01'11" W	58.68'
L35	N 72°18'49" W	58.68'
L36	N 58°07'54" W	58.68'
L37	N 58°07'54" W	58.68'
L38	N 40°58'49" W	58.68'
L39	N 01°58'49" W	71.89'
L40	N 50°14'51" W	58.73'

[redacted]

1. AREA CALCULATED BY COORDINATE COMPUTATION.
2. ADJOINING PROPERTY OWNERS NAMES WERE TAKEN FROM IREDELL COUNTY TAX OFFICE RECORDS, AND ARE CONSIDERED AS NOW OR FORMERLY.
3. [redacted]
4. [redacted]
5. [redacted]
6. LOCATION TO ALL ZONING ORDINANCES OF CITY OF STATESVILLE AND IREDELL COUNTY.
7. [redacted]
8. [redacted]
9. [redacted]
10. [redacted]
11. [redacted]
12. [redacted]
13. DIMENSIONS OF THE HOUSE SHOULD BE VERIFIED WITH THE CONTRACTOR PRIOR TO ANY CONSTRUCTION.
14. THIS DRAWING IS CONCEPTUAL AND THE CONTENTS SHOWN ARE SUBJECT TO CHANGE UPON FINAL CONSTRUCTION.

[redacted]

BOUNDARY LINE
ADJOINER LINE
RIGHT OF WAY
EASEMENT LINE
OVERHEAD UTILITIES
LAMP POST
UTILITY POLE
PUMP
GUY WIRE
SPIGOT
COMPUTED POINT
EASEMENT AREA
R/W AREA

[redacted]

RF	REBAR FOUND
NF	NAIL FOUND
R/W	RIGHT-OF-WAY
SF	SQUARE FEET
MB	MAP BOOK
DB	DEED BOOK
PG	PAGE
FS	FRONT SETBACK
RY	REAR YARD
SY	SIDE YARD

GRAPHIC SCALE
(IN FEET)
1 inch = 60 ft.

Revision No.:	Description:	Drawn:	Checked:	Date:
2	ADD PRIVATE R/W	TDA	CLK	9/22/22
Revision No.:	Description:	Drawn:	Checked:	Date:
1	ADD LINE/TIE/SET	TDA	CLK	7/22/22

Job No.:	Drawn:	Checked:	Date:
99-22-087	AMD	CLK	6/28/22

BOUNDARY SURVEY

CAROLINA GEOMATICS, PLLC
LAND SURVEYING & MAPPING
469 HOSPITAL DR., STE D
GASTONIA, NC 28054
P: (980) 329-3382
CKING@CAROLINAGEOMATICS.COM
NC #P-1965
WWW.CAROLINAGEOMATICS.COM

AT PROPERTY KNOWN AS
#143 SUMMERHUT LANE
PARCEL ID #3784207075
DB 1363 PG 1726
CITY OF STATESVILLE
IREDELL COUNTY, NC
FOR: JAMES BELOFSKI

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Project#: 22-0113
June 21st, 2023

James Belofski
Attn: *James Belofski*
Email: jimmyb12566@yahoo.com

RE: Soil & Site Evaluation for a 3 Bedroom Residence, 1.08 ac, PIN# 3784207075, 143 Summerhut Lane, Statesville, NC 28625.

Mr. Belofski:

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 where the house and septic are sited. Topography within the evaluated area was moderately sloped near the house site and proposed drainfield area. Property lines and corners were marked at the time of the evaluation by Carolina Geomatics Land Surveying. The client provided an Autocad File of a survey as a basemap. The proposed septic layout was located via survey and tape measures and used to produce the attached *Site Plan*. The existing house envelope, driveway and property corners were located via surveyor. Proposed house envelope was provided by the surveyor and must be field staked per design Site Plan prior to construction.

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 auger borings on the property flagged and located via GPS. All 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 is to be 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 via GPS and tape measures. Detailed system & repair information is summarized in the following paragraph for this Lot.

143 Summerhut Lane *(See Attached Design)*
The septic layout for this lot (9' centers) yielded a total of 490 linear feet of line. The primary system is proposed as 201 linear feet of Modified Conventional (HPPBPS) drainfield with Pressure Manifold distribution. Trench depth (Low Side) is specified at 22 inches. The repair system is proposed as 200 feet of Modified Conventional (HPPBPS) drainfield with low pressure distribution. Trench depth (Low Side) is specified at 22 inches. There is 248 feet available for repair.

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 James Belofski

Signature

7/21/23

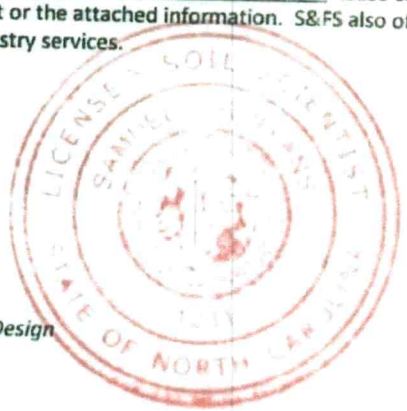
The LSS evaluation shall include a statement bearing the LSS seal and signature that reads as follows:

"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 143 Summerhut Lane, Statesville, NC 28625. 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 a PPBPS Septic System w/Pressure Manifold distribution for a 3 bedroom single family residence at 143 Summerhut Lane. (PIN# 3784207075), Statesville NC, 28625.

Contents:

	Page
Information for the Installer	1
Design Information	
Design Specifications	2-3
Layout Specifications	4
System Tapsheet	5
Site Plan/System Plan	6+
Calculations	7
Profile Descriptions	8
Septic Application	Online
Zoning Permit & Receipt	Online
Agent Authorization	Online
IP Form	9
AC Form	10

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

June 21, 2023
Project #: 22-0171
Design By: Soil & Forestry Services of the Carolinas, PA