BLDR-2023-22247

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625 | PERMIT # AP 330193

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

PIN # 4627 -- 83 -- 7134

APPLICANT/OWNER: Hugh Elkins | APPLICANT ADDRESS: 493 Beaten Path Rd

SITE ADDRESS: 493 Beaten Path Rd, Mooresville 28117 | PHONE: 704-904-9001 | ALT. PHONE

SITE DIRECTIONS: Brawley School - Blume - Beaten Path | SAP CONTROLLED: ☐ YES ☒ NO

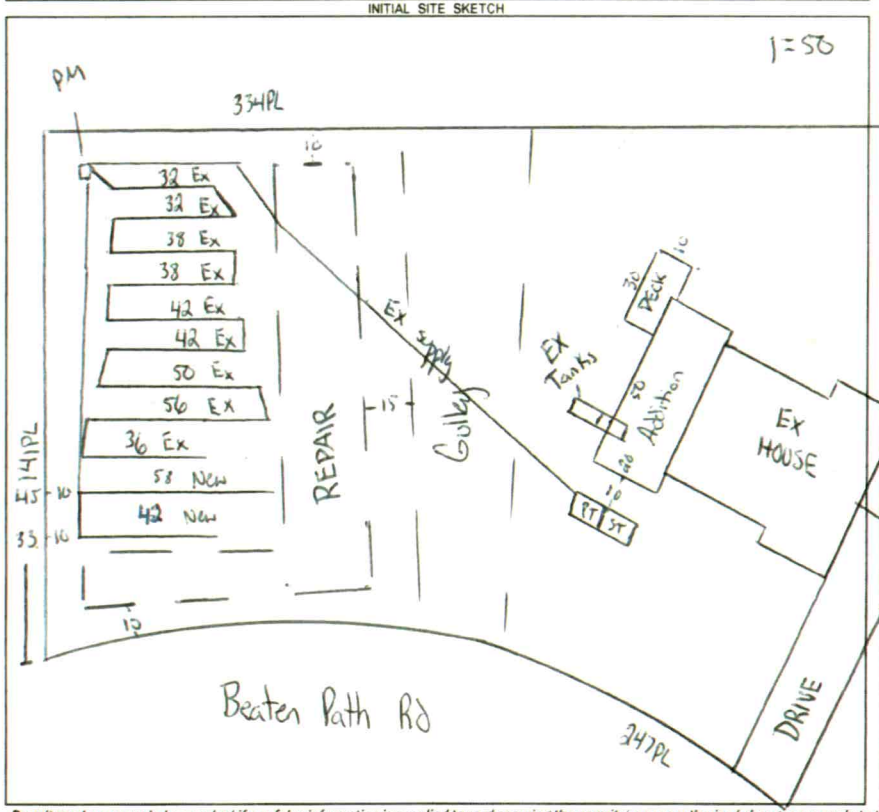
SUBDIVISION: Shavenders Bluff | SECTION: - | LOT # 45 | LOT AREA: 1 acres | DESIGN FLOW: 600 gpd | L.T.A.R.: 0.3

Septic Tank	1500 (gal)	STB	9641	Date	10/7/22	☐ New System ☐ Repair ☒ Expansion	System Type: I II III IV V VI	☒ Residence	No. Bedrooms 5
Pump Tank	1500 (gal)	PT	353	Date	2/10/23	System Description:	25% reduction	☐ Business	No. Persons 10
Pump Make	Zoeller	Model	BN140-G	Serial #	ZK23C21X	Repair System Description:	LPPPBPS	☐ Other	No. Employees
# Nitrification Fields	1	# Lines	2 + EX	Linear Ft	100 + EX	Maintenance Agreement Required:	☐ YES ☒ NO	☐ Slab	☒ Crawl Space
Trench Width	36 in	Trench Bottom Depth ~~(Low side)~~	32" max	Gravel Depth	-		☐ GRAVITY ☒ PRESSURE	☐ Basement w/plumbing	☐ Basement w/o plumbing

Water Supply: ☒ Private ☐ Public ☐ Community

Comments / Conditions: Do not grade, park, or drive on septic area. Install on contour with the land. Pump, crush, & fill old tanks.

INITIAL SITE SKETCH



AS BUILT SKETCH

FOR SEPTIC FINAL INSPECTION CALL: 704-664-3703 between 8am-9am the day the inspection is needed. Be sure to speak with an inspector to confirm your time.

3/4 sch 80 (Feed new lines serial)

AS BUILT ATTACHED

Dose = 212
Flow = 30.3 gpm
Time = 6.9 min
Drawdown = 7.8 in
2 ft head
2 in supply

lines
tanks
~~manifold~~ SB 4/13/23
electrical

alarm
floats
pressure SB 4/17/23
manifold

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: Hugh Elkins | Date: | Installed by: Galle Excavations

IMPROVEMENT PERMIT by: Cory Hill | Date: 10/28/22 | OPERATION PERMIT by: Sarah Boecken | Date: 4/17/23

AUTHORIZATION TO CONSTRUCT by: Cory Hill | Date: 10/28/22 | Existing System Inspected by: | Date:

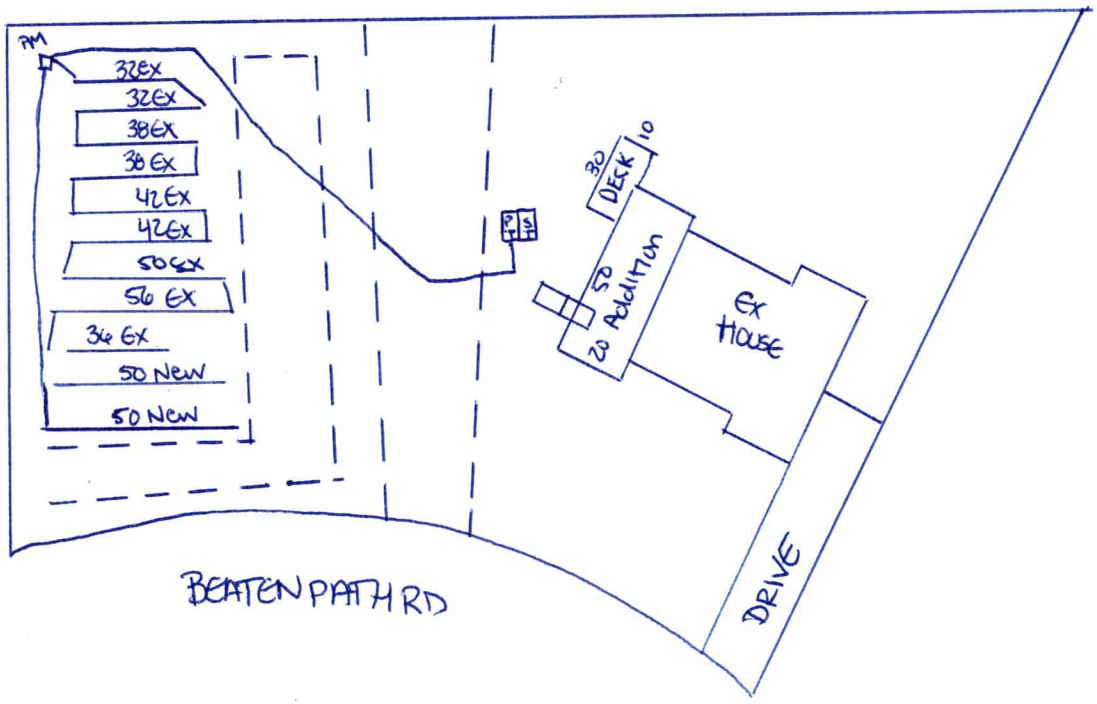
FOR SEPTIC FINAL INSPECTION: CALL 704-664-3703 between 8am-9am the day the inspection is needed.

Item	Date	Initials
Drain Lines Checked		
Tanks Checked		
Pressure Manifold or Valve Box Checked		
Pressure Head Set		
Electrical Checked		
Floats Set		
Alarm Checked		
Maintenance Contract Needed? Y / N		
Comments:		

Repairs Only	
	State Code
Failing System Code	
Type of Distribution	G or P
Type of Failure/Malfunction	
Primary Cause of Failure/Malfunction	
Age of System? _____	
Initial or Repair? _____	

AS BUILT 4/13/2023

Sarah Bracken



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

Sheet 1 of 1
PROPERTY ID #:
COUNTY: Iredell

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

OWNER: Hugh Elkins
ADDRESS: 498 Beaten Path
PROPOSED FACILITY: SFD/c
PROPOSED DESIGN FLOW (.1949): 600 gpd
LOCATION OF SITE: 498 Beaten Path Rd, Mooresville

APPLICATION DATE 7/20/22
DATE EVALUATED: 10/18/22
PROPERTY SIZE: 1 acre
PROPERTY RECORDED: yes

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

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	Linear 13%	0-34	C SBK	SS SP FR SE	—	60	Hemy 22-60	SAP inc	.3 PS
		34-60	CL SBK	SS SP FR SE					
2	Linear 15%	0-19	C SBK	SS SP FR SE	—	44	SAP a	inc in lower	PS
		19-~~32~~ 44	CL ~SBK	SS SP FR SE					
		44-54	SAP LS						
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	25%	50%
Site LTAR	.3	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Cory Whicker
OTHER(S) PRESENT: Sydney Holland

COMMENTS:

Updated February 2014

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope) CV (Convex Slope) D (Drainage Way) DS (Debris Slump) FP (Flood Plain) FS (Foot Slope) H (Head Slope) L (Linear Slope) N (Nose Slope) R (Ridge) S (Shoulder Slope) T (Terrace)	I	S (Sand) LS (Loamy Sand)	1.2 - 0.8	0.6 - 0.4	SEXP (Slightly Expansive) EXP (Expansive)	G (Single Grain) M (Massive) CR (Crumb) GR (Granular) SBK (Subangular Blocky) ABK (Angular Blocky) PL (Platy) PR (Prismatic)
	II	SL (Sandy Loam) L (Loam)	0.8 - 0.6	0.4 - 0.3		
	III	Si (Silt) SiCL (Silty Clay Loam) CL (Clay Loam) SCL (Sandy Clay Loam) SiL (Silt Loam)	0.6 - 0.3	0.3 - 0.15		
	IV	SC (Sandy Clay) SiC (Silty Clay) C (Clay) O (Organic)	0.4 - 0.1 None	0.2 - 0.05 None	**MOIST** VFR (Very Friable) FR (Friable) FI (Firm) VFI (Very Firm v. Very Sticky) EFI (Extremely Firm)	**WET** NS (Non-sticky) SS (Slightly Sticky) S (Sticky) VS (Very Sticky) NP (Non-plastic) SP (Slightly Plastic) P (Plastic) VP (Very Plastic)

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

NOTES

HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

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

