ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 x3456 Mooresville Office (704) 660-3625 SM

BLDR 2024-58430

PERMIT : OSWP - 2024-51755

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

PIN # 4843 -- 76 -- 8350

APPLICANT/OWNER: NICHOLAS E. HARKNETT APPLICANT ADDRESS: 170 DUCHAMP LANE, STATESVILLE, N.C. 28677

SITE ADDRESS: 247 HOWARDS BRIDGE ROAD, UNION GROVE, N.C. 28689 PHONE: 336-341-8014 ALT. PHONE –

SITE DIRECTIONS: (N) ON 77, (L) ON 901, (R) ON HOWARDS BRIDGE / LOT ON (L) SAP CONTROLLED: ☐ YES ☑ NO

SUBDIVISION: – SECTION: – LOT # – LOT AREA: 16.501 AC DESIGN FLOW: 480 GPD L.T.A.R.(Initial): 0.3 L.T.A.R (Repair): 0.225

Septic Tank	1000	(gal)	STB		Date		☑ New System	☐ Repair	☐ Expansion	System Type: I II (III) IV V VI	
Pump Tank	–	(gal)	PT	–	Date	–	System Description:	25% REDUCTION			
Pump Make	–	Model	–		Serial #	–	Repair System Description:	25% REDUCTION + COVER			
# Nitrification Fields	1	# Lines	4		Linear Ft	403 FT	Maintenance Agreement Required:	☐ YES	☑ NO		
Trench Width	36 IN	*Max. Trench Depth(Initial)	28 IN	*Max. Trench Depth(Repair)	12 IN	Gravel Depth	–	☑ GRAVITY	☐ PRESSURE		

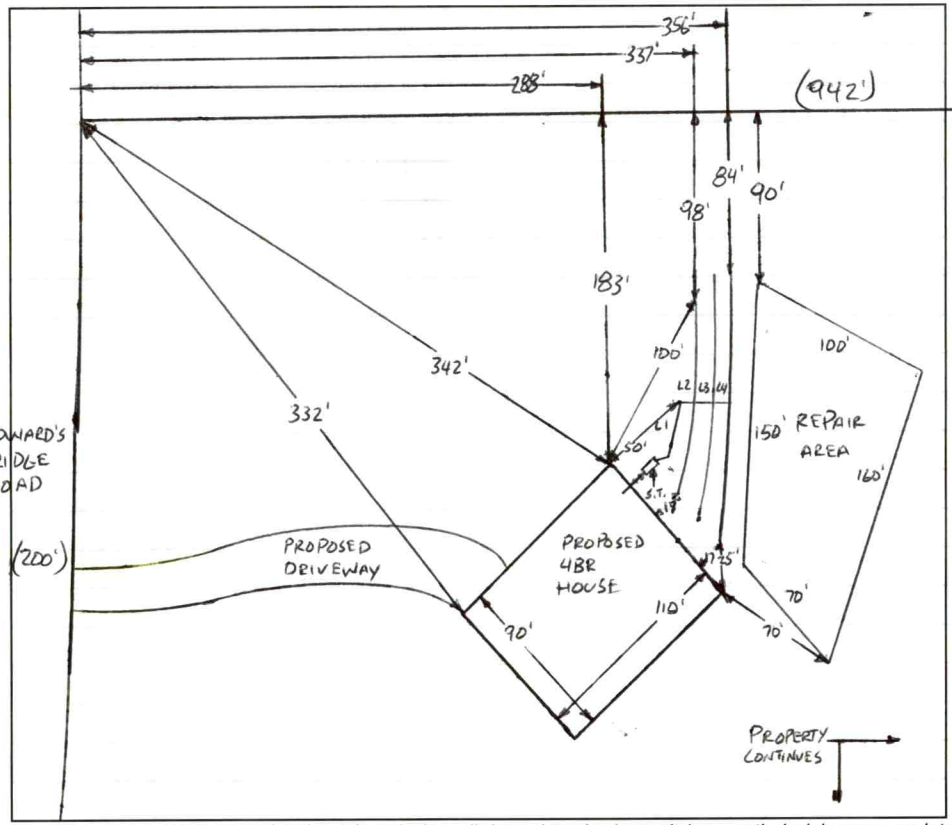
* Measured on the downhill side of the trench Effluent Standard: ☑ DSE ☐ HSE ☐ TS-I ☐ TS-II ☐ RCW ☐ NSF/ANSI 40 Usable Depth to LC (Initial): 43 IN Usable Depth to LC (Repair): 18 IN *Limiting Condition*

☐ Residence No. Bedrooms 4 ☐ Business No. Persons 8 ☐ Other No. Employees – ☐ Slab ☑ Crawl Space ☐ Basement w/plumbing ☐ Basement w/o plumbing

Water Supply: ☐ Private ☑ Public ☐ Community

Comments / Conditions: INSTALL ON CONTOUR, INSTALL ON 9FT CENTERS, UTILIZE SERIAL DISTRIBUTION, DO NOT EXCEED A 36IN MAX TRENCH DEPTH(HIGHSIDE) PRE-CONSTRUCTION RECOMMENDED CALL (704-902-0273)

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.

Installed as drawn.

1 IN = 100 FT
S.T. = SEPTIC TANK
L1 = 30 FT
L2 = 103 FT
L3 = 127 FT
L4 = 143 FT

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: ONLINE SIGNATURE Date: – Installed by: Steve Jordan

IMPROVEMENT PERMIT by: Bryant C. Miller Date: 5-20-2024 OPERATION PERMIT by: Graham Williams Date: 11/25/2024

AUTHORIZATION TO CONSTRUCT by: Bryant C. Miller Date: 5-21-2024 Existing System Inspected by: Date:

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? _____	

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

PROPERTY ID #: 4843-76-8350
COUNTY: IREDELL

SOIL/SITE EVALUATION *for* ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

OWNER: NICHOLAS E. HARKNETT DATE EVALUATED: 4-30-2024
ADDRESS: 170 DUCHAMP LANE, STATESVILLE, N.C. 28677
PROPOSED FACILITY: 4BR PROPOSED DESIGN FLOW (.0400): 480 GPD PROPERTY SIZE: 16.501 AC
LOCATION OF SITE: 247 HOWARDS BRIDGE ROAD, UNION GROVE, N.C. 28689 PROPERTY RECORDED: YES
WATER SUPPLY: ✓ Public Single Family Well Shared Well Spring Other _____ WATER SUPPLY SETBACK: 50FT
EVALUATION METHOD: Auger Boring ✓ Pit Cut TYPE OF WASTEWATER: ✓ Domestic High Strength IPWW

PROFILE #	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY .0503 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY .0503 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZ	.0509 PROFILE CLASS & LTAR*	.0503 SLOPE CORRECTION
1	LINEAR SIDE 6%	0-14	SCL, PLOW	MIXED	FEW SAP INC THRU OUT Y/B MOTS 24"-36" 2.5Y6/2@ 30"	60"+	NA	NA	PS .225 ABOVE 30"	2.5"
		14-46	C, ABK	FI, S, P, SEXP						
		46-60	CL, WABK	FI, SS, SP, SEXP						
2	LINEAR SIDE 9%	0-9	SCL, PLOW	MIXED	SAP INC THRU OUT FEW FI	60"+	NA	NA	PS .3	3.75"
		9-35	C, ABK	FR, S, P, SEXP						
		35-60	CL, WABK	FI, SS, SP, SEXP						
3	LINEAR SIDE 12%	0-8	SCL, PLOW	MIXED	SAP INC THRU OUT COMMON FI 38"+	56"+	NA	NA	PS .3	4.25"
		8-36	C, ABK	FR, S, P, SEXP						
		36-56	CL, WABK	FI, SS, SP, SEXP						
4	LINEAR 15%	0-8	SCL, PLOW	MIXED	SAP INC THRU FEW FI	55"+	NA	NA	PS .3	6"
		8-40	C, ABK	FR, S, P, SEXP						
		40-55	CL, WABK	FI, SS, SP, SEXP						

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.0508)	PS	PS
System Type(s)	25% REDUCTION	25% REDUCTION
Site LTAR	0.3	0.225
Maximum Trench Depth	28 IN	12 IN

SITE CLASSIFICATION (.0509): PS
EVALUATED BY: Bryant C. White
OTHER(S) PRESENT: _____

Comments: _____

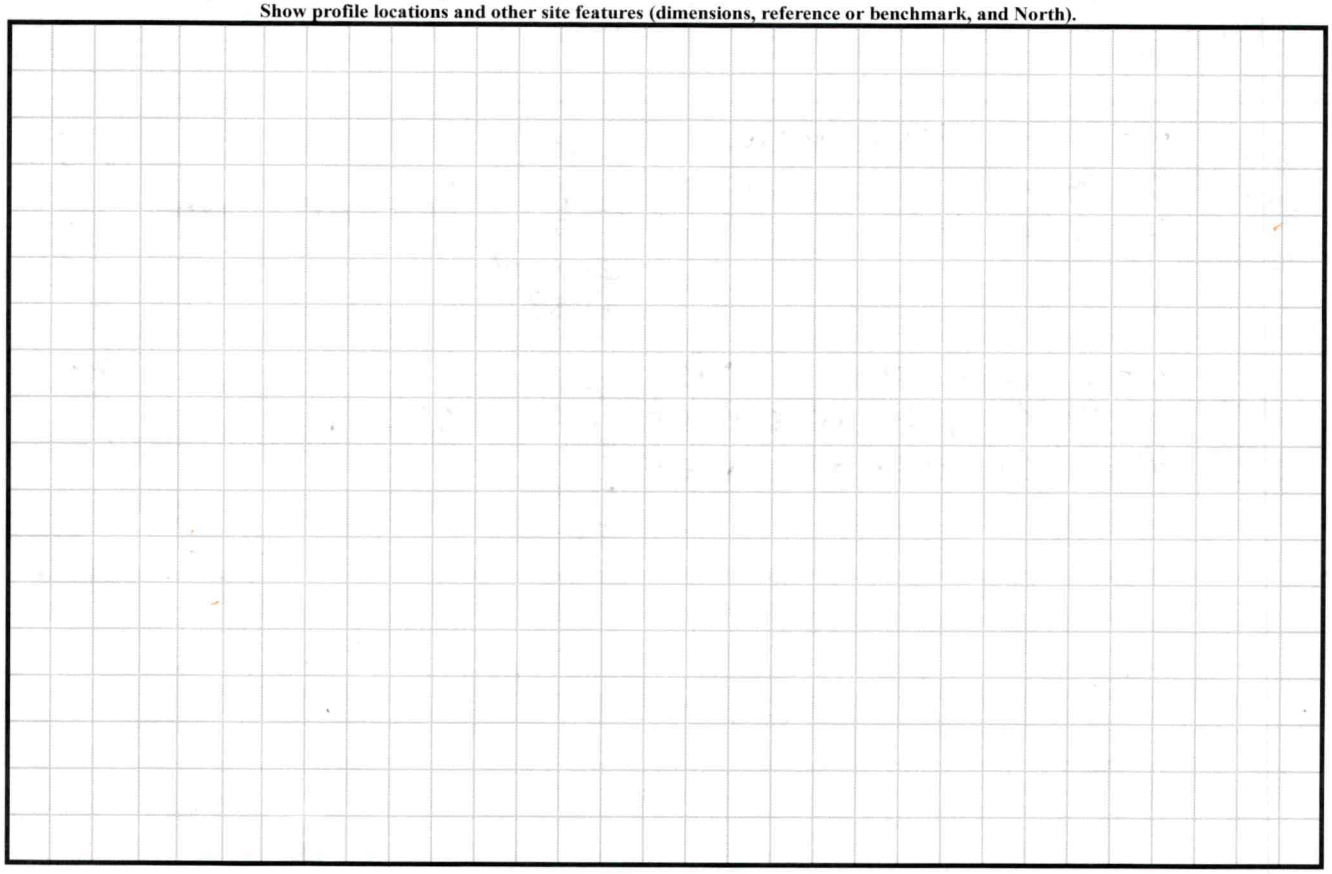
LEGEND

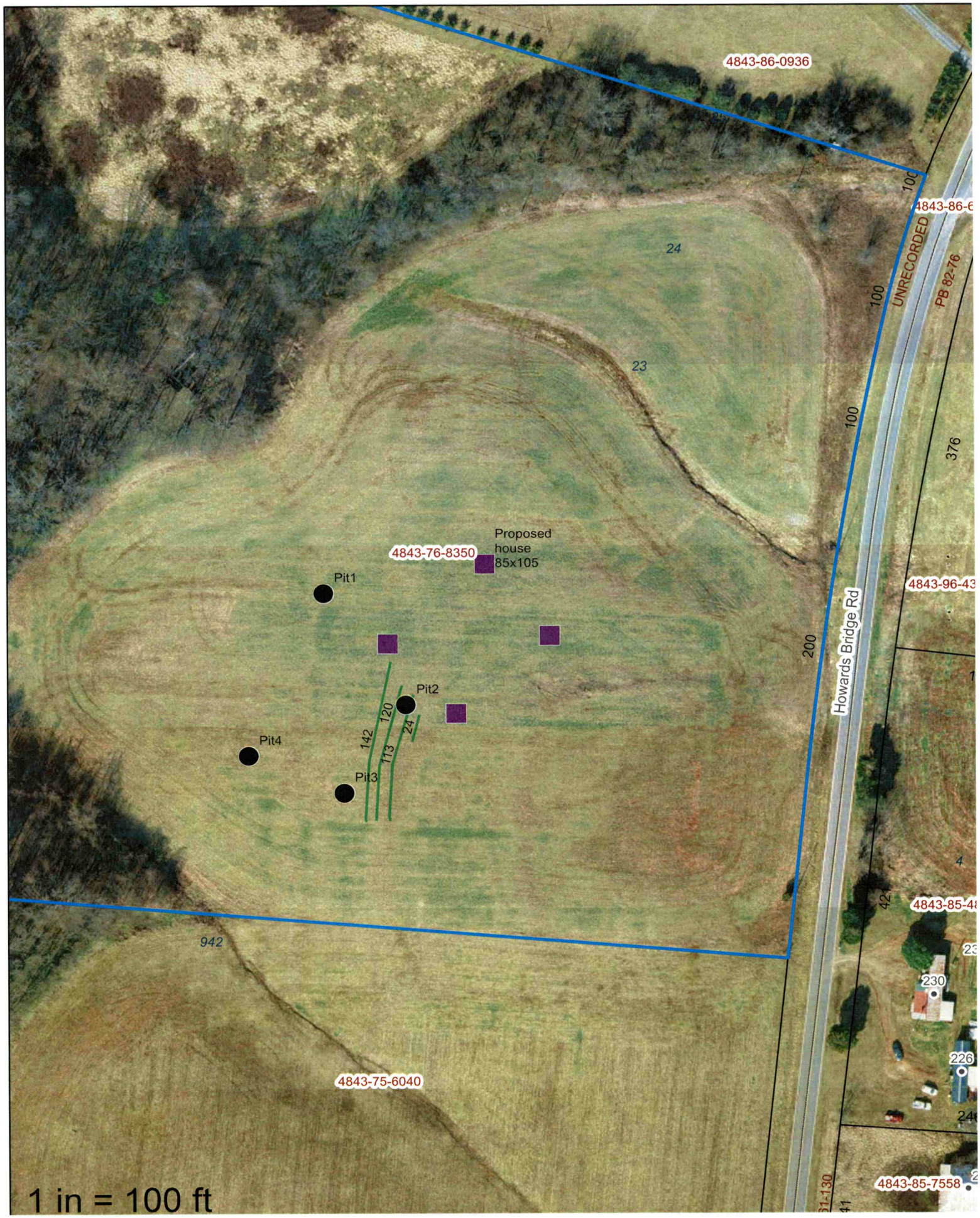
LANDSCAPE POSITION	SOIL GROUP	SOIL TEXTURE	CONVENTIONAL LTAR (gpd/ft²)	SAPROLITE LTAR (gpd/ft²)	LPP LTAR (gpd/ft²)	MINERALOGY/ CONSISTENCE		STRUCTURE
CC (Concave slope)	I	S (Sand)	0.8 - 1.2	0.6 - 0.8	0.4 -0.6	MOIST	WET	SG (Single grain)
CV (Convex Slope)		LS (Loamy sand)		0.5 -0.7		Lo (Loose)	NS (Non-sticky)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

* Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.
**Sandy clay loam saprolite can only be used with advanced pretreatment in accordance with 15A NCAC 18E .1200.

HORIZON DEPTH In inches below natural soil surface
DEPTH OF FILL In inches from land surface
RESTRICTIVE HORIZON Thickness and depth from land surface
SAPROLITE S(suitable) or U(unsuitable); Evaluation of saprolite shall be by pits.
SOIL WETNESS Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION S (Suitable) or U (Unsuitable)

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




4843-86-0936
4843-86-6
24
23
UNRECORDED
PB 82-76
100
100
100
376
Proposed
house
85x105
4843-76-8350
Pit1
Pit2
Pit3
Pit4
142
120
24
113
200
Howards Bridge Rd
4843-96-43
4
42
4843-85-48
942
230
226
4843-75-6040
4843-85-7558
1 in = 100 ft

PERMIT SNAPSHOT REPORT OSWP-2024-51755 FOR IREDELL COUNTY

Permit Type	Environmental Health OSWP	**Project:**		**App Date:**	04/21/2024
Work Class:	EH Septic Permit	**District:**	Iredell County	**Exp Date:**	NOT AVAILABLE
Status:	In Progress	**Square Feet:**	0.00	**Completed:**	NOT COMPLETED
Valuation:	$0.00	**Assigned To:**	White, Bryant	**Approval Expire Date:**	

Description: Septic Permit for New Home Construction. Chub said lot is ready. Site checked and ready by BW-04/26/24- BM

Parcel: 4843768350.000 Main	**Address:** 247 Howards Bridge Rd Union Grove, NC 28689 Main	**Zone:** RA(Residential Agricultural District)

Applicant/Authorized Agent	Property Owner
Nicholas E Harknett	TIMOTHY S GUNTER
170 Duchamp Ln	PO BOX 188
Statesville, NC 28677	UNION GROVE, NC 28689
Mobile: (336) 341-8014	

Permit Custom Fields

How is your site plan being submitted	Custom Site Plan	Septic Application/Permit Type	Improvement Permit	Does the site contain any jurisdictional wetlands	No
Non-domestic Sewage Generated	No	Other Public Agency	No	All proposed structure dimensions	105'x85'
What are the proposed structures	New Single-Family Residence - Stick Built	Type of New Single-Family Residence	Stick Built	Maximum Number of Bedrooms	4
If other Addition/Structure, please explain		Number of Occupants	5	Foundation Type	Crawl Space Foundation
Residential/Business/Other	Residential	Water Supply	Other Public Water	Desired Septic System Type	Conventional (most common)
Has this project been approved by TRC	No	Lot Acreage	16.501	Front Setback	35
Back Setback	35	Left Setback	15	Right Setback	15
Is the structure or development in the floodplain	No	Is the property in a local historic district?	No	Is the property located downtown?	No
Additional Unique Setbacks Apply	No	Watershed	WSIII BOW HUNTING CREEK		

Attachment File Name	Added On	Added By	Attachment Group	Notes
Signature_Nicholas_Harknett_4/21/2024.jpg	04/21/2024 18:02	Harknett, Nicholas		Uploaded via CSS
Authorization to Act as Agent_v1.pdf	04/22/2024 10:14	Harknett, Nicholas	Available Online	
Howard's bridge site plan septic_v1.pdf	04/23/2024 10:45	Harknett, Nicholas	Available Online	

Inspection Number	Status	Inspection Type	Request Date	Scheduled Start Date	Scheduled End Date	Actual Start Date	Actual End Date
2024-209334	Passed - Permit	OSWP Septic/Well Preliminary Site Visit	04/26/2024	04/24/2024 0:00	04/24/2024 0:00	04/26/2024 8:00	04/26/2024 8:00

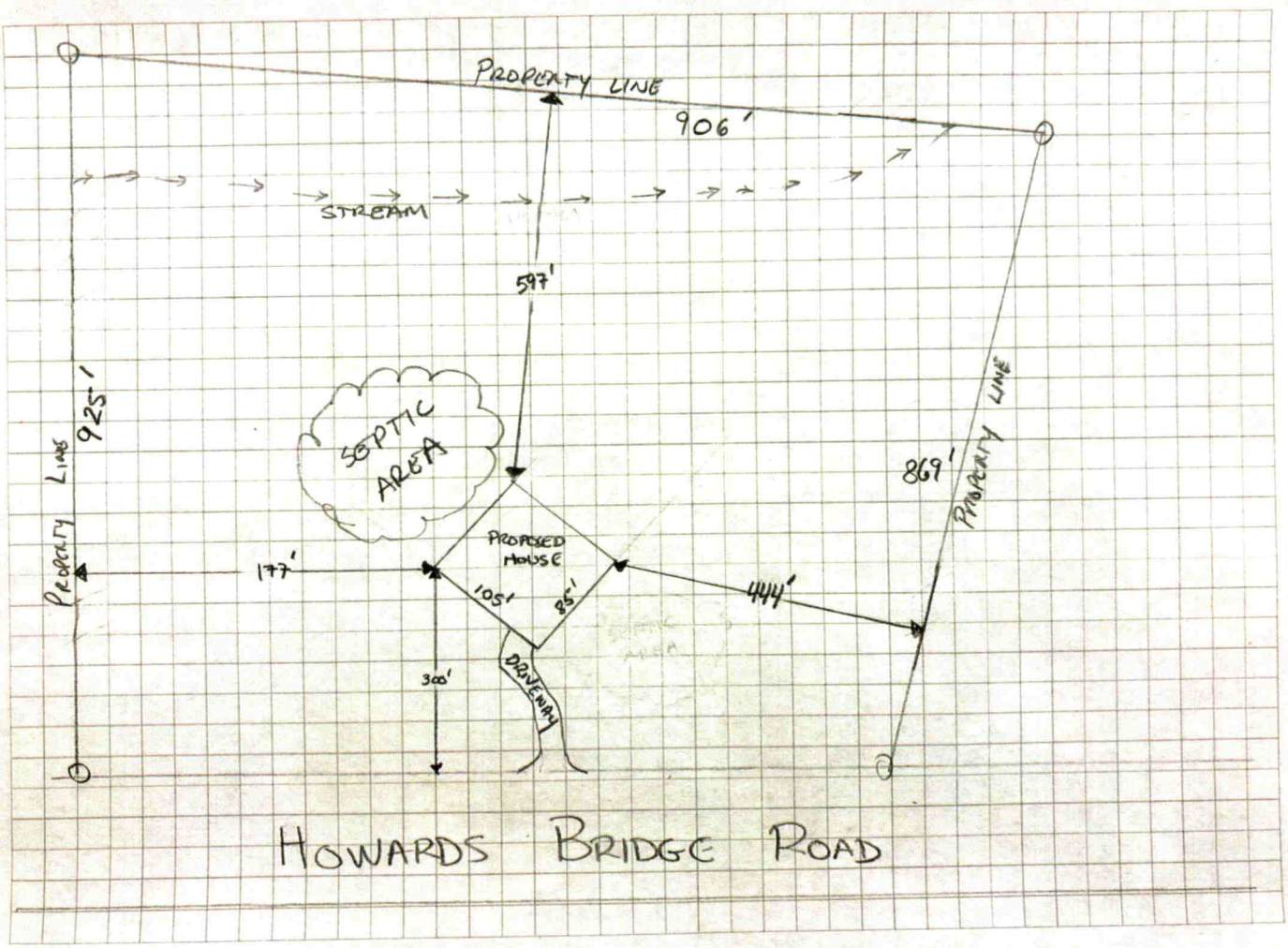
Inspectors: Moore, Bradley (Primary)

Checklist Item	Description	Passed	Comments
General Comments	Checklist item used to track general comments, not specific to any other checklist item	No	

PERMIT SNAPSHOT REPORT (OSWP-2024-51755)

Invoice No.	Fee	Fee Amount	Amount Paid
INV-00029913	New Gravity System	$500.00	$500.00
	Iredell Zoning Tech Fee	$2.25	$2.25
	Iredell Zoning Permit Fee	$75.00	$75.00
	Total for Invoice INV-00029913	$577.25	$577.25
	Grand Total for Permit	**$577.25**	**$577.25**

Workflow Step / Action Name	Action Type	Start Date	End Date
Application Completeness Check v.1		04/22/2024 10:15	04/22/2024 10:15
Confirm application complete v.1	Generic Action		04/22/2024 10:15
Fees v.1		04/23/2024 7:36	04/23/2024 7:36
Issue Invoice v.1	Generic Action		04/23/2024 7:36
Fees Paid v.1	Generic Action		04/23/2024 7:36
Zoning Review v.1		04/22/2024 12:05	04/23/2024 10:47
~~Floodplain Admin Overview v.1~~	Task		04/22/2024 12:04
Iredell County Zoning Approval v.1	Task	04/22/2024 12:06	04/23/2024 10:47
Issue Invoice v.1	Generic Action		04/22/2024 12:05
Fees Paid v.1	Generic Action		04/23/2024 7:36
Lot Readiness Verification v.1		04/26/2024 8:00	
OSWP Septic Preliminary Site Visit v.1	Inspection	04/26/2024 8:00	04/26/2024 8:01
OSWP Site Evaluation v.1	Inspection		
Issue Improvement Permit v.1			
Issue Invoice v.1	Generic Action		
Fees Paid v.1	Generic Action		
Issue Permit v.1	Generic Action		
Permit Completion Process v.1			
Authorization to Construct Permit v.1	Create Sub Permit		
Issue Authorization to Construct v.1	Generic Action		



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