BLDR-2023-35096

North Carolina Onsite Wastewater Contractor Inspector Certification Board
Authorized Onsite Wastewater Evaluator Permit Option for Non-Engineered Systems
Notice of Intent (NOI) to Construct

X New ___ Expansion ___ Repair ___ Relocation ___ Relocation of Repair Area

Owner or Legal Representative Information:
Name: MNCE Properties LLC
Mailing address: 611 Ralph Place City: Westbury State: NY Zip: 11590
Phone: 516-250-8461 Email: greenlawns13@optonline.net

Authorized Onsite Wastewater Evaluator Information:
Name: Larry Thompson Certification #: 10016E
Mailing address: PO Box 541 City: Midland State: NC Zip: 28107
Phone: 704-301-4881 Email: larry@thompsonenv.com

Site Location Information:
Site address: 112 Slate Drive, Statesville, NC 28625
Tax parcel identification number or subdivision lot, block number of property: 3783443156.000
River Rock, Phase II, Lot 49 County: Iredell

System Information:
Wastewater System Type: IIIb
Daily Design Flow: 360 GPD
Saprolite System: ___ Yes X No Subsurface Operator Required: ___ Yes X No
Water Supply Type: ___ Private Well X Public Water Supply ___ Spring ___ Other: ___

Facility Type:
X Residential 3 # Bedrooms 6 Maximum # of Occupants
___ Business Type of Business and Basis for Flow: ___
___ Public Assembly Type of Public Assembly and Basis for Flow: ___

Required Attachments:
X Plat or Site Plan
X Evaluation of Soil and Site Features by Licensed Soil Scientist

Attest: On this the 14th day of August, 2023 by signature below I hereby attest that the information required to be included with this NOI to Construct is accurate and complete to the best of my knowledge. Furthermore, I hereby attest that I have adhered to the laws and rules governing onsite wastewater systems in the state of North Carolina.
This NOI shall expire on 14th day of August, 2028.

Signature of Authorized Onsite Wastewater Evaluator: L Thompson

Signature of Owner or Legal Representative: Giacomo D'Alessandro (Aug 15, 2023 16:13 EDT)

Disclosure: The owner may apply for a building permit for the project upon submitting a complete NOI to Construct and the fee required (if any) to the local health department. An onsite wastewater system authorized by an authorized onsite wastewater evaluator shall be transferable to a new owner with the consent of the authorized onsite wastewater evaluator.

Local Health Department Receipt Acknowledgement:
Signature of Local Health Department Representative: Benjamin A Bates Date: 8/25/2023

River Rock, Ph. II, Lot 49

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, MNCE Properties LLC, am the legal owner(s) of the property located at 112 Slate Drive, Statesville, NC 28625, identified as PIN (Parcel Identification Number) 3783443156.000, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**)
Larry Thompson, Thompson Environmental, 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.

Giacomo D'Alessandro (Aug 15, 2023 16:13 EDT)
Signature of Owner(s)

Aug 15, 2023
Date

The plans or evaluations attached to this application are to be used to issue a Construction Authorization in accordance with G.S. 130A-335(a2), (a5) and (a6).

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

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

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 9/7/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Higginbotham Insurance Agency, Inc.
500 W. 13th Street
Fort Worth TX 76102

License#: 2081754

CONTACT NAME: David Vaughan
PHONE (A/C, No, Ext): 9187797880 **FAX (A/C, No):** 817-882-9284
E-MAIL ADDRESS: dlvjr@higginbotham.net

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Mid-Continent Casualty Company	23418
INSURER B : Hartford Underwriters Insurance Company	30104
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED
Thompson Environmental Consulting, Inc.
PO Box 541
Midland NC 28107-0541

THOMENV-01

COVERAGES **CERTIFICATE NUMBER:** 1600075032 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY			04-GL-001086672	9/25/2022	9/25/2023	EACH OCCURRENCE	$ 1,000,000
	CLAIMS-MADE [X] OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 100,000
	X Professional						MED EXP (Any one person)	$ Excluded
	GEN'L AGGREGATE LIMIT APPLIES PER:						PERSONAL & ADV INJURY	$ 1,000,000
	X POLICY [ ] PRO-JECT [ ] LOC						GENERAL AGGREGATE	$ 3,000,000
	OTHER:						PRODUCTS - COMP/OP AGG	$ 3,000,000
								$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$
	ANY AUTO						BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
	UMBRELLA LIAB OCCUR						EACH OCCURRENCE	$
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$
	DED RETENTION $							$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N			38WECNW6175	10/17/2022	10/17/2023	X PER STATUTE OTH-ER	
	ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [N] N/A						E.L. EACH ACCIDENT	$ 1,000,000
	(Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

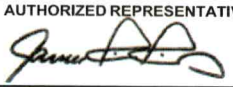
CERTIFICATE HOLDER

For Informational Purposes

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



© 1988-2015 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD

Residential Subsurface Wastewater Treatment and Disposal System AOWE Permit

for

River Rock, Ph. 2 - Lot 49
112 Slate Drive
Statesville, NC 28625

Tax Parcel Number: 3783443156.000
August 14, 2023

Prepared for:

MNCE Properties LLC
611 Ralph Place
Westbury, NY 11590
516-250-8461



Prepared by:

Larry Thompson, REHS, LSS
Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107-0541
Phone: 704-301-4881
Fax: 206-350-8895
larry@thompsonenv.com



Details

MNCE Properties LLC has contracted with Thompson Environmental Consulting, Inc. (TEC) to prepare an AOWE septic permit package for a 3-bedroom single-family residence to be constructed on Lot 49, Phase II – River Rock, located at 112 Slate Drive, Statesville, North Carolina (Iredell County Parcel Number: 3783443156.000).

Based upon a previous soil and site evaluation performed by TEC, it was determined that a sufficient amount of "Provisionally Suitable" Group IV soils are available for the installation and repair, of a **Pump to Accepted System** for a 360 gallon-per-day residence at a 0.3 GPD/sq/ft long-term acceptance rate (LTAR). The property will be served by public water.

This proposal is being submitted pursuant to and meets the requirements of G.S. 130A-336.2. (AOWE Permitting).

Location

From Statesville, take I-40 West to Exist 141 (Sharon School Road). Turn right onto Sharon School Road, left onto Walnut Tree Road, left onto Pumice Drive, and right onto Slate Drive. Lot is located on the left in 0.1 mile.

References

Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A, Section .1900, Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, April 1, 2017.

Accepted Wastewater System No. AWWS-2005-02-R6; North Carolina Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, August 21, 2015.

Primary Investigator's Credentials

NC Registered Sanitarian No. 1208
NC Licensed Soil Scientist No. 1287
NC Authorized Onsite Wastewater Evaluator No. 10016E
SC Certified Professional Soil Classifier No. 111
NC Subsurface Septic System Operator No. 22199
NC Grade IV Wastewater System Installer No. 1762
NC Certified Wastewater System Inspector No. 17621

Plans and Specifications

A. Septic Tank

1. The septic tank shall be State approved (Section .1953 of 15A NCAC 18A), watertight, structurally sound, and 1,000 gallons in capacity.
2. The septic tank shall be fitted with an approved effluent filter.
3. It is the responsibility of the septic contractor to thoroughly inspect the septic tank prior to accepting delivery to assure that the tanks have had time to properly cure and are free of cracks or other structural deficiencies.

B. Pump Tank

1. The pump tank shall be State approved, of one-piece construction, watertight, structurally sound and 1,000 gallons in capacity. Again, it is the responsibility of the septic tank contractor to thoroughly inspect each pump tank prior to accepting delivery.
2. All pipe penetrations into the tank shall be booted (i.e., C-293 boot with a stainless-steel strap).
3. The pump tank shall have access risers that extend, at a minimum, 6 inches above finished grade and must have less than 36 inches of fill over its top once finished grade has been established (a reinforced concrete tank will be required if finished soil cover is 36 inches or greater in depth).
4. The pump and alarm controls shall be provided with manual circuit disconnects within a watertight, corrosion-resistant, Nema 4x-rated control panel. Pump and float control wiring should be long enough to reach from the tank to the control panel without splicing, routed through wire conduit, and sealed at the openings within the pump tank as well as the control panel enclosure. It is paramount that the conduit is properly sealed to prevent the escape of flammable gases from the pump tank. Furthermore, there must be two electrical circuits for the pump tank controls: one for the pump and one for the alarm controls.
5. Panel and control equipment shall include lightning protection, be protected from unauthorized access, and always remain accessible to the system operator.
6. The pump removal system will be via a pump tether made of nylon rope or its equivalent. The tether material should be resistant to mildew and rot.

C. Pipe, Fittings and Supply Line

1. All discharge piping, connectors, and supply lines should be made of SCH 40 PVC and fitted with pressure-rated couplings.
2. All joints must be properly "welded" utilizing the appropriate PVC cement for each application.
3. Supply line shall be constructed of 2-inch SCH 40 PVC pipe with pressure fittings.

D. Pressure Manifold

1. A pressure manifold shall be used to distribute wastewater to to the individual drainlines.

2. The pressure manifold shall be contained within an adequately sized box/vault that will allow future repair lines to be installed and is designed to allow for drainage of effluent that may accumulate in it during flushing and head pressure adjustments. The box should be placed upon a gravel base.
3. A gate valve shall be provided at the pressure manifold box to allow for final pressure adjustment (2 foot of head pressure as per design).
4. The pressure manifold shall be constructed of SCH 80 PVC.
5. There shall be 3 taps – ½ inch SCH 40 PVC (direct thread or saddle).
6. The connecting pipe between the pressure manifold taps and the drainfield shall be constructed of PVC.

E. Drainfield Installation

1. The drainfield has been previously laid out on-site utilizing metal stemmed flags. The property owner/builder should mark this area and isolate it as much as possible from construction traffic.
2. Under no circumstances shall any construction occur within the drainfield area while the soil is wet.
1. The specified system is an accepted wastewater system, specifically the Infiltrator Quick 4 chamber system.
3. The drainfield consists of three (3) lateral trenches to be constructed as 3-foot wide by 100 feet long. **Total drainline length is 300 feet**.
4. The maximum trench depth for this system is **26 inches**.
5. The laterals are to be installed on contour with the land, keeping the individual trench bottoms level from beginning to end.
6. The trenches should be left open for the final inspection by the local health department.

F. Final Landscaping

1. Final cover over the drainfield shall be at least 6 inches deep. Additional soil cover may be required to achieve the 6-inch requirement.
2. The drainfield shall be shaped to shed rainwater and be free from low spots.
3. The drainfield area should be planted with grass as soon as possible to prevent erosion. The soil should be properly tilled, limed (if necessary), and fertilized prior to planting. After applying grass seed, the area should be heavily mulched with straw or other suitable material.

G. Utility Conflicts

1. The builder and property owner must take special care in planning for water, power, gas, telephone, and cable lines. These utilities shall be kept clear of all parts of the septic system and its proposed repair area. Improper planning for underground utilities can negatively impact the installation and, in some cases, cause irreparable damage and permit revocation. If there are any questions regarding preferred routes, contact the local health department as soon as possible.
2. Lawn irrigation should not be placed over the drainfield area.

Maintenance

H. In General

1. The homeowner must maintain the drainfield area through periodic mowing. The drainfield must not be allowed to become overgrown.
2. The septic tank should be pumped every 4 years or when the solids within the septic tank reach an elevation equivalent to 25 percent of the tank's volume. In some situations, the tanks may need to be pumped more frequently. If using a garbage disposal, it is recommended that the homeowner has the septic and pump tanks cleaned out annually.
3. When cleaning the effluent filter, the filter should be removed, and the accumulated debris will be washed back into the septic tank – not onto the lawn.
4. Any damp areas, leakages, or malfunctions in the drainfield area should be addressed immediately.
5. Divert gutter downspouts and surface water runoff away from the septic and pump tanks.

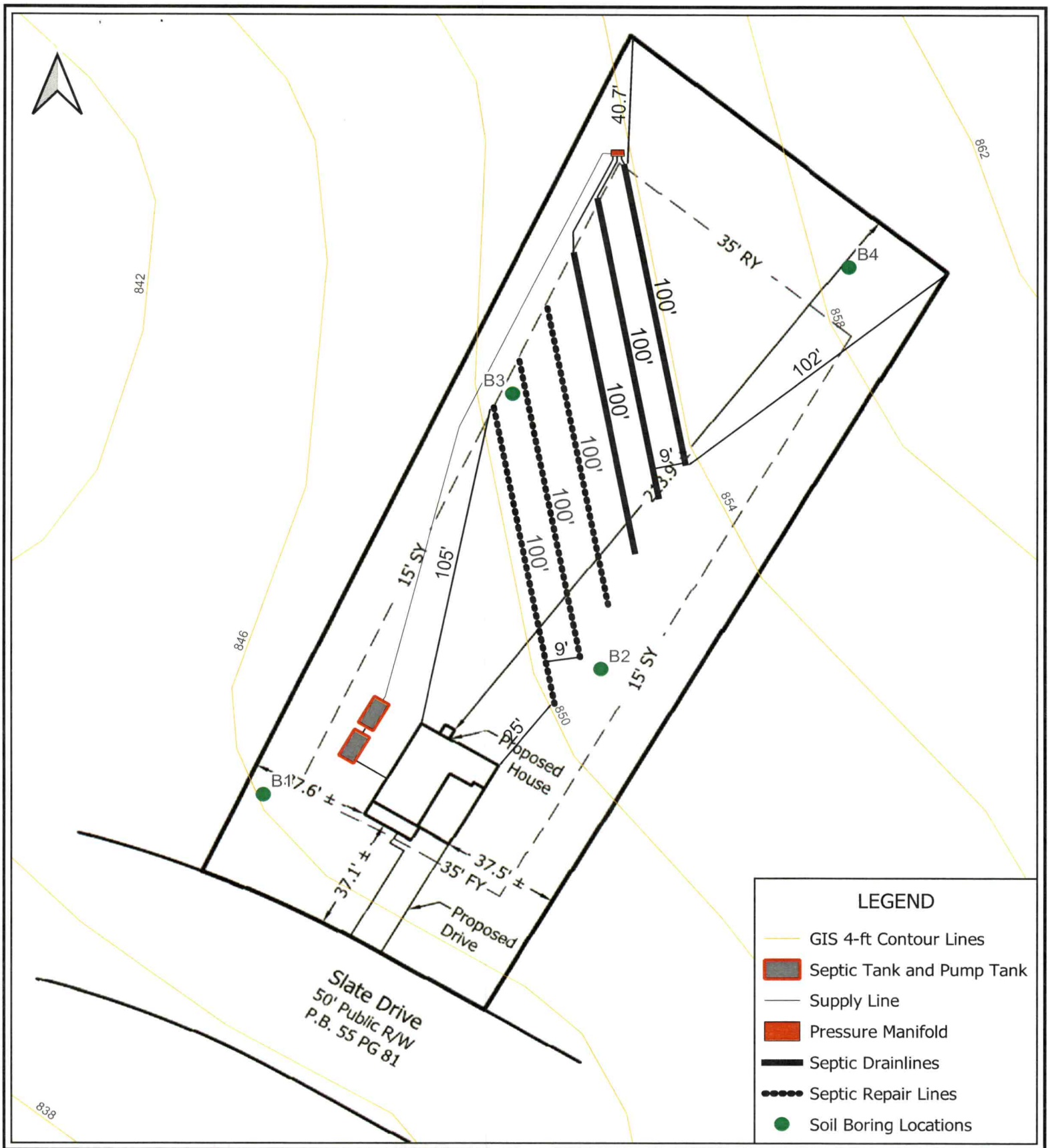
Design Specifics

Daily Design Flow:	360 GPD – 3 bedroom house
Septic Tank Size:	1,000 Gallons (minimum)
Pump Tank Size:	1,000 Gallons (minimum)
Pump Size:	21.33 GPM at 15-ft TDH
Recommended Pump:	Liberty FL30 or Equivalent
Distribution Method:	Pressure Manifold (SCH 80 PVC)
Number and Size of Taps:	(3) ½ Inch SCH 40 PVC Taps
Dose Volume:	180 Gallons
Pump Run Time:	8.44 Minutes
Pump Tank Drawdown:	8.57 Inches
Effluent Loading Rate:	0.3 GPD per sq. ft.
Drainfield Type:	Accepted (25% Reduction)
Number of Drainlines:	(3) 3-ft Wide x 100-ft Long
Total Trench Length:	300 Linear Feet

Maximum Trench Depth:	26 Inches
Final Soil Cover Requirement:	6 Inches

Repair Option

Effluent Loading Rate:	0.3 GPD per sq. ft.
Drainfield Type:	Accepted (25% Reduction)
Required Linear Footage:	300 Linear Feet
Available Linear Footage:	300 Linear Feet
Maximum Trench Depth:	26 Inches
Final Soil Cover Requirement:	6 Inches



Thompson Environmental Consulting
WATER · WASTEWATER · WETLANDS

Prepared For:
MNCE Properties

Proposed Septic Layout

River Rock, Ph. 2 - Lot 49
112 Slate Drive
Statesville, NC 28625
Iredell County

Date:
August 2023

Scale:
0 20 40 ft

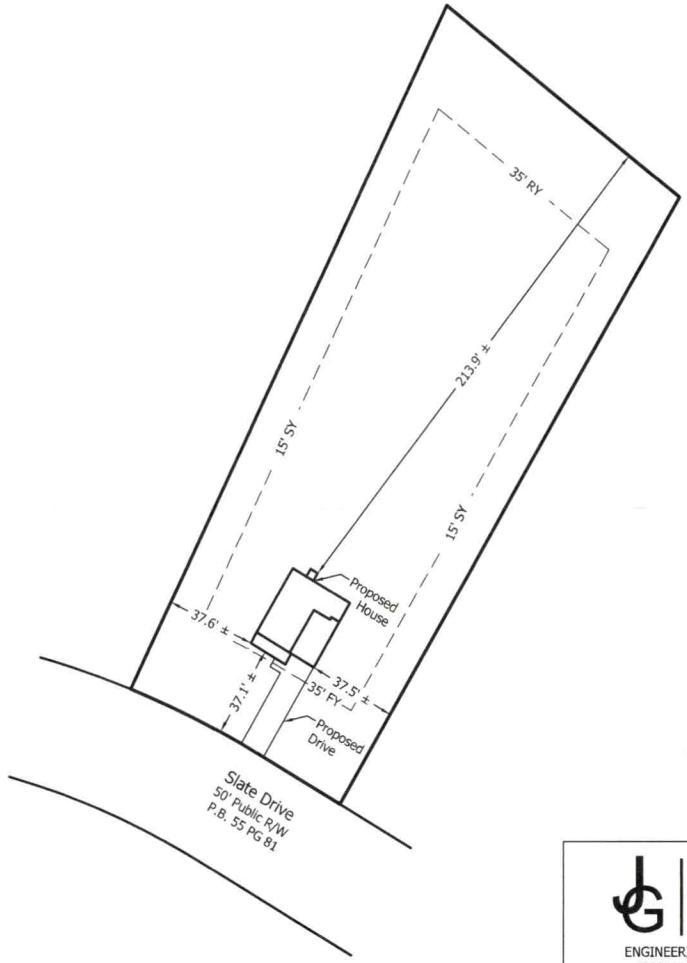
TEC Job #:
23-116

Figure
1

PRELIMINARY FOR REVIEW ONLY

* NOT AN ACTUAL SURVEY *

THIS PLOT PLAN WAS DRAWN FROM EXISTING PLATS AND/OR DEEDS AND A FULL SURVEY WAS NOT PERFORMED AT THIS TIME. ACREAGES AND DISTANCES ARE SUBJECT TO AN ACTUAL SURVEY. A FULL TITLE SEARCH HAS NOT BEEN PERFORMED.





REFERENCE:

BEING ALL OF LOT 49 - RIVER ROCK SUBDIVISION - PHASE 2 - AS RECORDED IN P.B. 55, PG. 81 - IREDELL COUNTY REGISTRY.

PROPERTY SUBJECT TO RESTRICTIVE COVENANTS LISTED IN D.B. 1904 - PG. 1746, D.B. 1961 - PG. 1896, D.B. 1970 - PG. 1765, D.B. 2059 - PG. 280, D.B. 2347 - PG. 143, D.B. 2347 - PG. 271, D.B. 2347 - PG. 1896, & D.B. 2579 - PG. 662.

PROPERTY IS SUBJECT TO ANY AND ALL ZONING AND PLANNING ORDINANCES, EASEMENTS, RIGHTS-OF-WAY, AND RESTRICTIONS OF RECORD.

SETBACKS:

PROPERTY CURRENTLY ZONED: RA (IREDELL COUNTY)

PROPERTY SUBJECT TO A 35' FRONT YARD (FY), 15' SIDE YARD (SY), & 35' REAR YARD (RY) AS RECORDED IN P.B. 55, PG. 81.

PROPERTY IS SUBJECT TO A 10' DRAINAGE & UTILITY AROUND INSIDE PERIMETER OF LOT PER P.B. 55, PG. 81.

APPROXIMATE STRUCTURAL/IMPERVIOUS COVERAGE:

APPROXIMATE PROPERTY AREA: 32,808 SF, 0.802 AC
PROPOSED DWELLING AREA: 937 SF, 0.022 AC
PROPOSED DRIVE AREA: 482 SF, 0.011 AC
APPROXIMATE STRUCTURAL COVERAGE: 937 SF, 0.022 AC, 2.86%
APPROXIMATE IMPERVIOUS COVERAGE: 1,419 SF, 0.003 AC, 4.33%

THE SUBJECT PROPERTY IS NOT IN A "SPECIAL HAZARD AREA" AS SHOWN ON HUD/FIA FLOOD INSURANCE RATE MAP COMMUNITY PANNEL NUMBER 3710378300K EFFECTIVE DATE 3/18/2008.

LEGEND	
FY	FRONT YARD SETBACK
RY	REAR YARD SETBACK
SY	SIDE YARD SETBACK
R/W	RIGHT OF WAY
P.B.	PLAT BOOK
PG.	PAGE

0 50 100 150

JORDAN GRANT
ENGINEERING • SURVEYING • PLANNING
JORDAN GRANT & ASSOCIATES, PLLC
2117 SIMONTON RD, SUITE #202
STATESVILLE, NC 28625
MATT.GRANT@JORDAN-GRANT.COM
704-928-7919
FIRM # P-1227

PLOT PLAN FOR:

Helmsman Homes

DRAWN BY: DEN	CHECKED BY: JWE	SCALE: 1" = 50'
PIN NO: 3783-44-3156		
DEED REF: 2984-2378		
DATE OF MAP: 6/20/2023	SURVEY DATE:	
REVISION:	DRAWING FILE: 20230646	

112 Slate Dr, Statesville, NC 28625
Shilo TWSP - Iredell County - North Carolina

Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107

PROPERTY ID #: 3783-44-3156
COUNTY: IREDELL

LOT 49

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER:
ADDRESS:
PROPOSED FACILITY: Res. PROPOSED DESIGN FLOW (.1949): 360 GPD
LOCATION OF SITE: 112 SLATE DR

DATE EVALUATED: 3-29-23
PROPERTY SIZE:
PROPERTY RECORDED:

WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other Lot 49 - River Rock
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	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	LS / 3	0-5	SBK / CL	FR / SS, SP, SE	-	>40"	-	-	PS 0.275
		5-40+	SBK / C	FI / SS, SP, SE					
2	LS / 4	0-5	SBK / CL	FR / SS, SP, SE	-	>40"	-	-	PS 0.275
		5-40+	SBK / C	FI / SS, SP, SE					
3	LS / 4	0-13	SBK / CL	FR / SS, SP, SE	-	>40"	-	-	PS 0.275
		13-40+	SBK / C	FI / SS, SP, SE					
4	LS / 5	0-4	SBK / CL	FR / SS, SP, SE	-	>40"	-	-	PS 0.275
		4-40+	SBK / C	FI / SS, SP, SE					

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

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): Provisionally Suitable
EVALUATED BY: M. WOOD
OTHER(S) PRESENT: E WOOD
L. Thompson, LSS

LICENSED SOIL SCIENTIST LARRY B. THOMPSON, JR. 1287 STATE OF NORTH CAROLINA

LEGEND

use the following standard abbreviations

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

SEE FIGURE 1

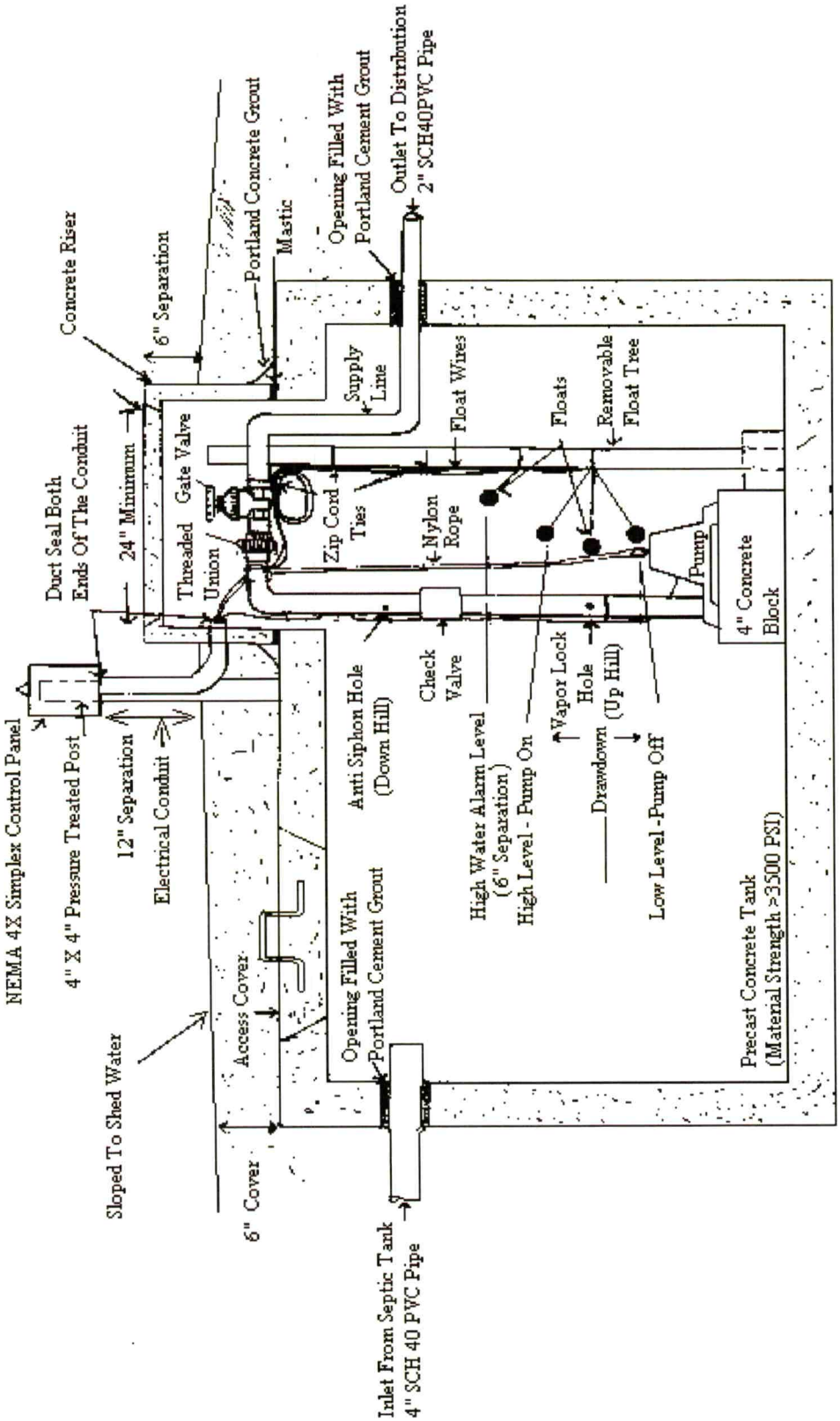
Thompson Environmental Consulting, Inc
PO Box 541
Midland, NC 28107-0541

Tax Record: 3783443156.000

Location: 112 Slate Drive

Date: August 14, 2023

Recommended Pump Tank Design



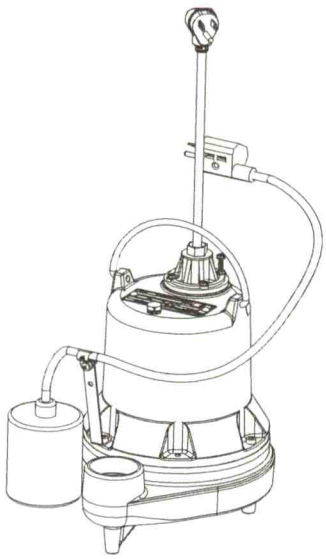
Liberty Pumps®

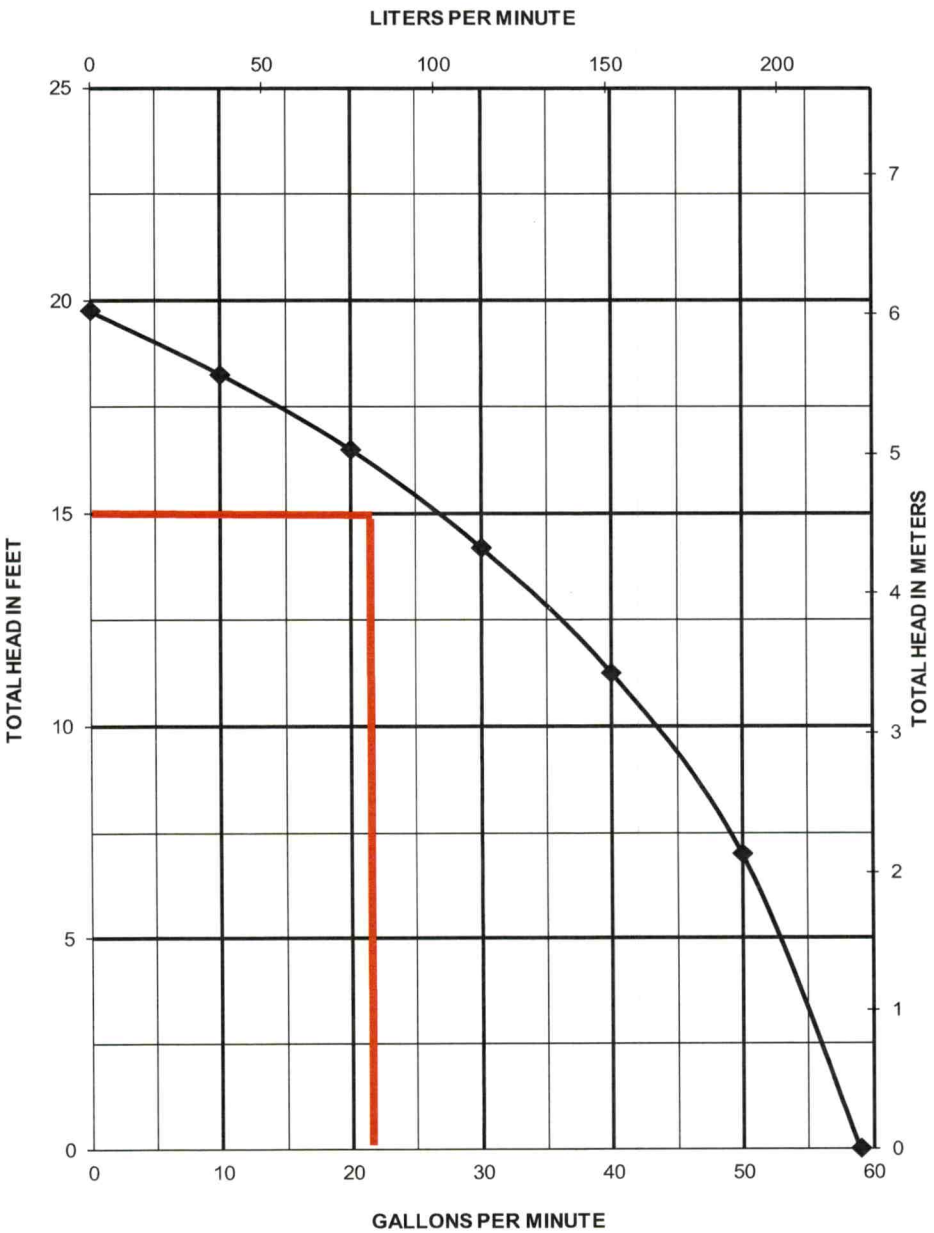
A Family and Employee Owned Company

Pump Specification

FL30-Series

1/3 HP Submersible Effluent Pumps

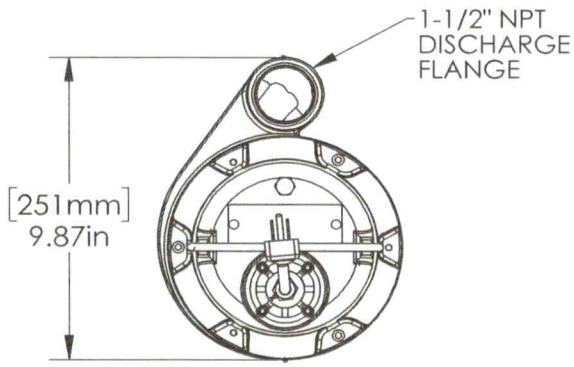


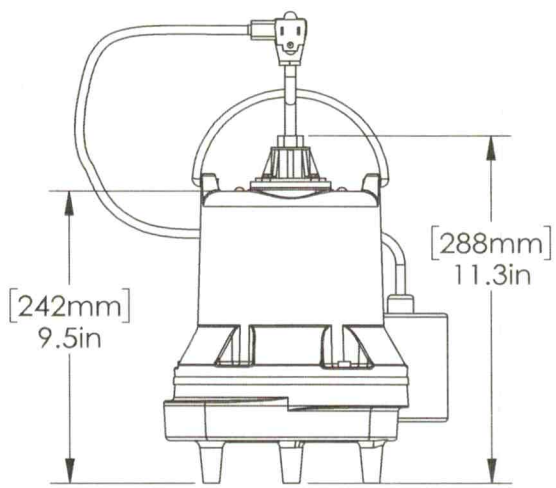


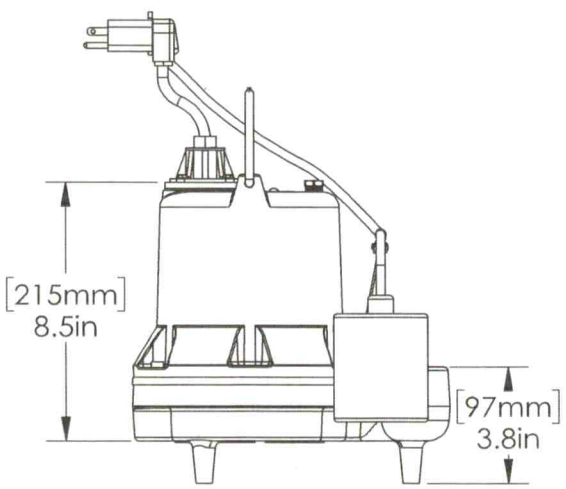
Copyright © Liberty Pumps, Inc. 2019 All rights reserved. Specifications subject to change without notice.

7000 Apple Tree Avenue Bergen NY 14416 ■ ***Phone*** *800-543-2550* ■ ***Fax*** *585-494-1839* ■ ***Email*** *Liberty@LibertyPumps.com* ■ ***Web*** *www.LibertyPumps.com*

FL30-Series Dimensional Data







Liberty Pumps

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF LIBERTY PUMPS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF LIBERTY PUMPS IS PROHIBITED.		DWG. NO. FL30 SERIES DIMENSIONAL
		SIZE A DATE: REV. A
	APPLICATION / DO NOT SCALE DRAWING	SCALE:1:4 WEIGHT: LBS SHEET 1 OF 1

Copyright © Liberty Pumps, Inc. 2019 All rights reserved. Specifications subject to change without notice.

*7000 Apple Tree Avenue Bergen NY 14416 ■ **Phone** 800-543-2550 ■ **Fax** 585-494-1839 ■ **Email** Liberty@LibertyPumps.com ■ **Web** www.LibertyPumps.com*

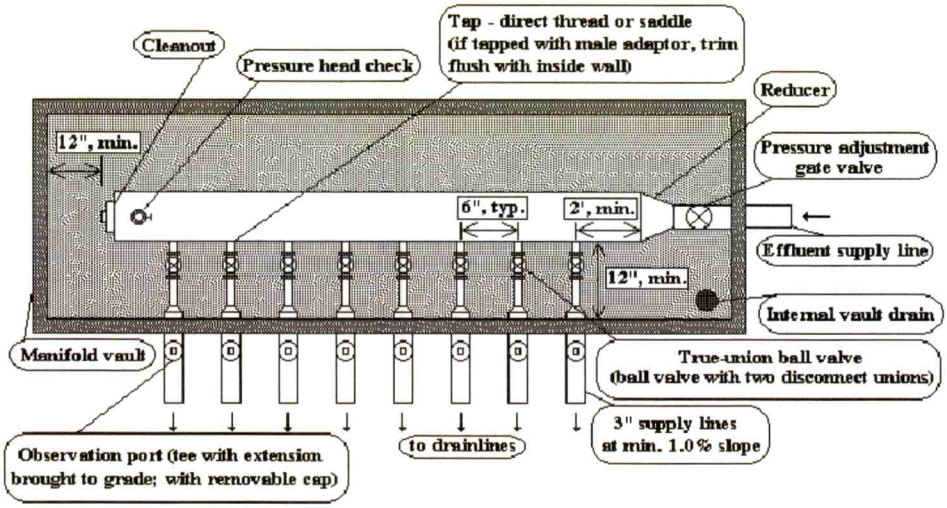
Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107-0541

Tax ID Number: 3783443156.000

Location: 112 Slate Drive

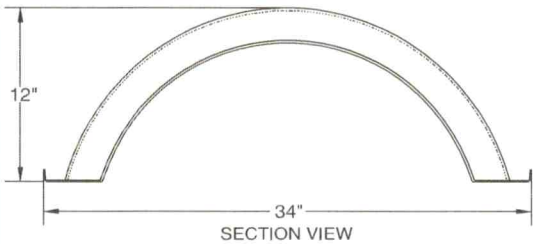
Date: August 14, 2023

Recommended Pressure Manifold Design
(Number of Taps May Vary)

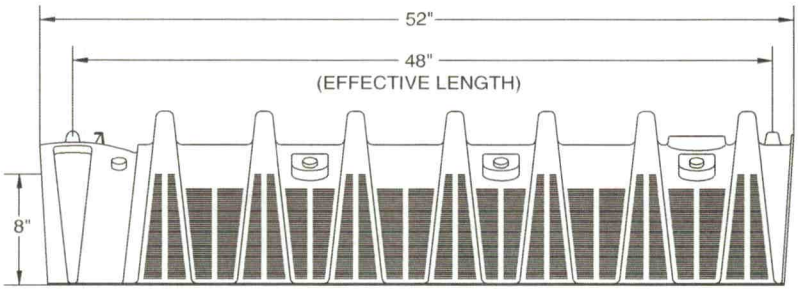


Quick4™
STANDARD CHAMBER

Quick4 Standard Chamber

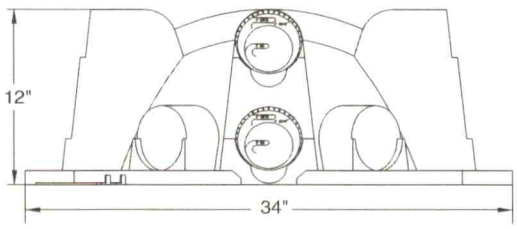


SECTION VIEW

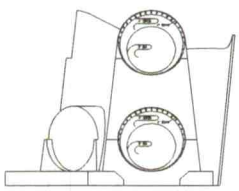


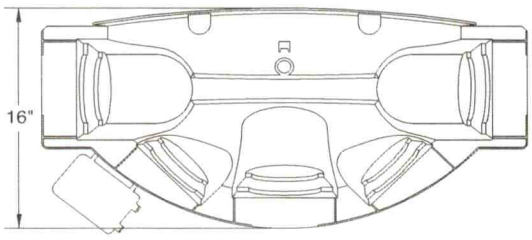
SIDE VIEW

MultiPort End Cap



FRONT VIEW


SIDE VIEW



TOP VIEW

Quick4 Standard Chamber Nominal Specifications	
Size (W x L x H)	34" x 52" x 12"
Effective Length	48"
Invert Height	8"

MultiPort End Cap Nominal Specifications	
Size (W x L x H)	34" x 16" x 12"
Invert Height	8" or 1.25"

INFILTRATOR SYSTEMS, INC. STANDARD LIMITED WARRANTY

(a) The structural integrity of each chamber, end plate, wedge and other accessory manufactured by Infiltrator ("Units"), when installed and operated in a leachfield of an onsite septic system in accordance with Infiltrator's instructions, is warranted to the original purchaser ("Holder") against defective materials and workmanship for one year from the date that the septic permit is issued for the septic system containing the Units; provided, however, that if a septic permit is not required by applicable law, the warranty period will begin upon the date that installation of the septic system commences. To exercise its warranty rights, Holder must notify Infiltrator in writing at its Corporate Headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect. Infiltrator will supply replacement Units for Units determined by Infiltrator to be covered by this Limited Warranty. Infiltrator's liability specifically excludes the cost of removal and/or installation of the Units.

(b) THE LIMITED WARRANTY AND REMEDIES IN SUBPARAGRAPH (a) ARE EXCLUSIVE. THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE UNITS, INCLUDING NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

(c) This Limited Warranty shall be void if any part of the chamber system is manufactured by anyone other than Infiltrator. The Limited Warranty does not extend to incidental, consequential, special or indirect damages. Infiltrator shall not be liable for penalties or liquidated damages, including loss of production and profits, labor and materials, overhead costs, or other losses or expenses incurred by the Holder or any third party. Specifically excluded from Limited Warranty coverage are damage to the Units due to ordinary wear and tear, alteration, accident, misuse, abuse or neglect of the Units; the Units being subjected to vehicle traffic or other conditions which are not permitted by the installation instructions; failure to maintain the minimum ground covers set forth in the installation instructions; the placement of improper materials into the system containing the Units; failure of the Units or the septic system due to improper siting or improper sizing; excessive water usage, improper grease disposal, or improper operation; or any other event not caused by Infiltrator. This Limited Warranty shall be void if the Holder fails to comply with all of the terms set forth in this Limited Warranty.

Further, in no event shall Infiltrator be responsible for any loss or damage to the Holder, the Units, or any third party resulting from installation or shipment, or from any product liability claims of Holder or any third party. For this Limited Warranty to apply, the Units must be installed in accordance with all site conditions required by state and local codes; all other applicable laws; and Infiltrator's installation instructions.

(d) No representative of Infiltrator has the authority to change or extend this Limited Warranty. No warranty applies to any party other than the original Holder.

- - - - - - -

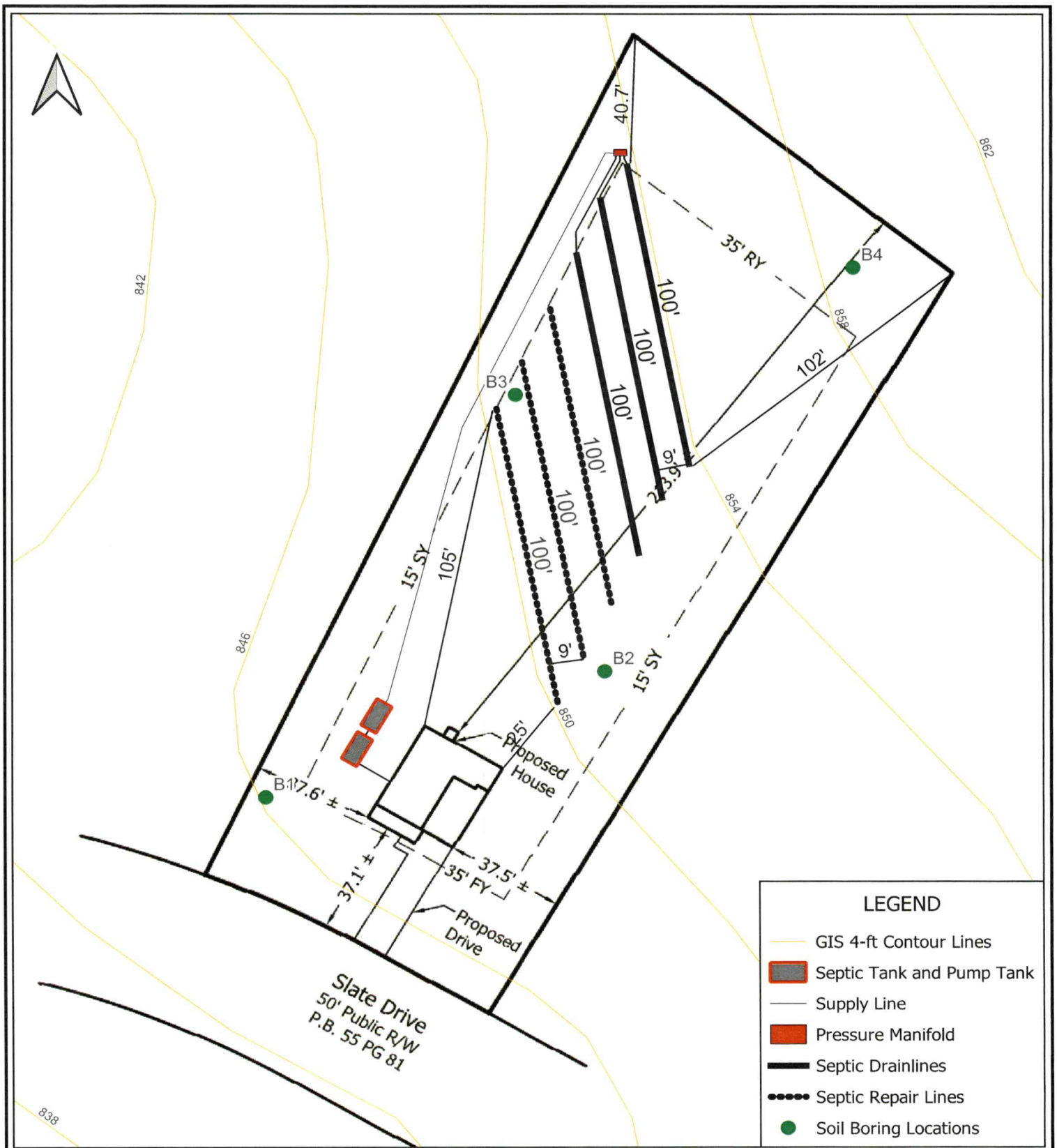
The above represents the Standard Limited Warranty offered by Infiltrator. A limited number of states and counties have different warranty requirements. Any purchaser of Units should contact Infiltrator's Corporate Headquarters in Old Saybrook, Connecticut, prior to such purchase, to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of Units.

INFILTRATOR® SYSTEMS INC
Environmental Onsite Wastewater Solutions℠
6 Business Park Road • P.O. Box 768
Old Saybrook, CT 06475
860-577-7000 • FAX 860-577-7001
800-221-4436

U.S. Patents: 4,759,661; 5,017,041; 5,156,488; 5,336,017; 5,401,116; 5,401,459; 5,511,903; 5,716,163; 5,588,778; 5,839,844
Canadian Patents: 1,329,959; 2,004,564 Other patents pending.

Infiltrator, Equalizer and SideWinder are registered trademarks of Infiltrator Systems Inc. Infiltrator is a registered trademark in France. Infiltrator Systems Inc. is a registered trademark in Mexico. Contour, Contour Swivel Connection, MicroLeaching, PolyTuff, SnapLock, ChamberSpacer, PosiLock, QuickCut, QuickPlay and Quick4 are trademarks of Infiltrator Systems Inc. © 2003 Infiltrator Systems Inc. Printed in U.S.A.

RECYCLED PAPER



Thompson Environmental Consulting
WATER · WASTEWATER · WETLANDS

Prepared For:
MNCE Properties

Proposed Septic Layout

River Rock, Ph. 2 - Lot 49
112 Slate Drive
Statesville, NC 28625
Iredell County

Date: August 2023
Scale: 0 20 40 ft
TEC Job #: 23-116

Figure 1

Received 5/23/24
D. Wieberg ICHD

Residential Subsurface Wastewater Treatment and Disposal System AOWE ATO

for

River Rock, Ph. 2 - Lot 49
112 Slate Drive
Statesville, NC 28625

Tax Parcel Number: 3783443156.000
May 1, 2024

Prepared for:

MNCE Properties LLC
611 Ralph Place
Westbury, NY 11590
516-250-8461



Prepared by:

Larry Thompson, REHS, LSS
Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107-0541
Phone: 704-301-4881
Fax: 206-350-8895
larry@thompsonenv.com



PROJECT SPECIFICS

MNCE Properties LLC contracted with Thompson Environmental Consulting, Inc. (TEC) to prepare an AOWE septic permit package for a 3-bedroom single-family residence to be constructed on Lot 49, Phase II – River Rock, located at 112 Slate Drive, Statesville, North Carolina (Iredell County Parcel Number: 3783443156.000).

Based upon a soil and site evaluation performed by TEC, it was determined that a sufficient amount of "Provisionally Suitable" Group IV soils are available for the installation and repair, of a **Pump to Accepted System** for a 360 gallon-per-day residence at a 0.3 GPD/sq/ft long-term acceptance rate (LTAR). The property is served by public water.

The system has been installed by Kevin Kirkpatrick (Level IV Installer 2627) and inspected by TEC. The system has been installed in general accordance with the AOWE permit package submitted to your office. The recommended maintenance plan and original details are included in this closeout package. This report shall allow the Authorization to Operate to be issued for the certificate of occupancy for the above referenced facility.

OPERATION and MAINTENANCE

A. Operation and Maintenance

1. The septic tank and pump tank shall be pumped out when the solids within the septic tank reach an elevation that is equivalent to 25% of the volume of the tank. The grease trap will need to be.
2. The effluent filter should be inspected annually. When it becomes necessary to clean the effluent filter, the filter should be removed, and the accumulated debris washed back into the septic – not onto the lawn.
3. The drainfield area should be maintained to prevent overgrowth of vegetation. Any damp areas, leakages or malfunctions should be addressed immediately.
4. Divert gutter downspouts and surface water runoff away from the septic and pump tanks.

B. Suggestions to the Property Owner

1. Grease, cooking oils, coffee grounds and non-degradable solids (disposable diapers, cigarettes and solid paper wastes) should never be put into a septic tank.
2. Used motor oil or any oily liquids should not be disposed of in a septic tank.
3. Be aware of the amount of water that you are using in the business. Water saving fixtures and devices can be installed on sinks and toilets to reduce the volume of wastewater that you are sending to your drain field.
4. Run dishwashers only when you have a full load.
5. Repair leaky faucets and toilets. Small drips equal large volumes of water over time and can over burden your drainfield.
6. Do not use chemical additives in your system. Studies have indicated that they do not increase the biological activity that naturally occurs in the septic system and in some cases certain additives have been found to be detrimental to the life of a system.

OWNER'S ACCEPTANCE

The septic system for the above-referenced property was specified by Larry Thompson, LSS, with the final installation work being performed by Kevin Kirkpatrick. Mr. Thompson has shared his closeout package with us and we do hereby accept the septic system installed for this project.

Signature: _____
Giacomo D'Alessandro (May 22, 2024 12:40 EDT)

Email: greenlawns13@icloud.com

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 11/28/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Bankers Insurance, LLC
128 NC-65
Reidsville NC 27320

License#: 6387078

CONTACT NAME: William Teague, CIC, cISR
PHONE (A/C, No, Ext): (336) 280-0323 **FAX (A/C, No):**
E-MAIL ADDRESS: wteague@bankersinsurnce.net

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Frankenmuth Mutual Insurance Company	13986
INSURER B :	
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED
Rowan Septic, Inc.
7321 Old Mocksville Road
Salisbury NC 28144

ROWASEP-02

COVERAGES **CERTIFICATE NUMBER:** 889172956 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY			6727307	5/12/2023	5/12/2024	EACH OCCURRENCE	$ 1,000,000
	CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 1,000,000
							MED EXP (Any one person)	$ 10,000
							PERSONAL & ADV INJURY	$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 2,000,000
	POLICY X PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$ 2,000,000
	OTHER:							$
A	**AUTOMOBILE LIABILITY**			6727306	5/12/2023	5/12/2024	COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
	X ANY AUTO						BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	X HIRED AUTOS ONLY / X NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
A	X **UMBRELLA LIAB** X OCCUR			6727307	5/12/2023	5/12/2024	EACH OCCURRENCE	$ 1,000,000
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$ 1,000,000
	DED X RETENTION $ 10,000							$
A	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** Y / N			6727305	5/12/2023	5/12/2024	X PER STATUTE / OTH-ER	
	ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? N	N / A					E.L. EACH ACCIDENT	$ 1,000,000
	(Mandatory in NH)						E.L. DISEASE - EA EMPLOYEE	$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - POLICY LIMIT	$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Septic Tank Service.
Re: Lot 2 - Falcon Crest.

CERTIFICATE HOLDER

Thompson Environmental Consulting, Inc.
Post Office Box 541
Midland NC 28107

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

© 1988-2015 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD