* Duplicate file
original file missing

SUPERVISOR/ADMINISTRATIVE PROFESSIONAL CHECKLIST

NEW SEPTIC ☒ NEW WELL ☐ USE EXISTING ☐ MODIFIED PLOT PLAN ☐

New Septic Fees Paid

IP ($250.00) _____ Initial/Date

CA ($200.00) LP 6/24/21 Initial/Date

OP ($200.00) LP 6/24/21 Initial/Date

(CA and OP fees need to be paid before a building permit can be issued)

New Well Fees Paid: $550.00 _____ Initial/Date

Use Existing Fees Paid: $100.00 _____Initial/Date

Alteration Fees Paid: $300 Total $200 _____Initial/Date (If use existing was part of payment)

Modified Plot Plan Fees Paid: $100.00 _____Initial/Date

Please generate CA / Approve As Noted

Floor plans need to be submitted and reviewed before CA can be issued ☒ Review ☒ 6/23/21

This site is served by septic and well. Verify each is complete before final hold is released ☐

Septic file complete ☒ 10/7/21 Well complete ☐ _____

Send permit for signature ☐ Signature received ☐ _____

This septic system requires a certified operation contract before final hold is released ☐

Certified operator contract is on file ☐ _____

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 06/24/21
Receipt #: 129383
Check / Auth #: MC 02434Z
Received By: PLACILJ

Amount: 200.00
Tendered: 200.00
Returned: 0.00

Account Information

Account #: 200000
Contractor: LISA NEAL
Attn:
Address: 18005 CALLAWAY HILLS LN
Address:
City/State/Zip: DAVIDSON, NC 28036

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Septic Operational Permit 21511 SHEARER RD		1	200.00	200.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 06/24/21
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Contractor: LISA NEAL
Attn:
Address: 18005 CALLAWAY HILLS LN
Address:
City/State/Zip: DAVIDSON, NC 28036

Item	Description	Permit#	Quantity	Unit Price	Total Price
0734	Septic Construction Authorizat 21511 SHEARER RD		1	200.00	200.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance

App. #: 11716

PERMIT APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT FOR ONSITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

MECKLENBURG COUNTY HEALTH DEPARTMENT
GROUNDWATER & WASTEWATER SERVICES

Septic Fee: 250.00

Well Fee: Date:

Date: 10/30/2020

FILE # 10793B

SEPTIC / TYPE APPLICATION: ○ N/A ◉ NEW SYSTEM ○ ALTERATION ○ REPAIR ○ MODIFIED PLOT PLAN

WELL / TYPE APPLICATION: ◉ N/A ○ NEW WELL ○ MAJOR REPAIR ○ ABANDONMENT

JOB LOCATION INFORMATION:

TAX / PARCEL #: 00305102 ☐ PO

STREET ADDRESS: 21511 SHEARER RD

CITY: Davidson

STATE: NC ZIP: 28036

SUBDIVISION OR MOBILE HOME PARK NAME:

LOT #: 0

TOWNSHIP: DAVIDSON

General Comments:

BUILDING INFORMATION:

TYPE OF BUILDING:

○ SINGLE MOBILE HOME (S) ○ MODULAR HOME (M)
○ DOUBLE WIDE (D) ○ MULTIPLE FAMILY (U)
◉ HOUSE (H) ○ OTHER

HEATED SQUARE FOOTAGE: 1400

NUMBER OF BEDROOMS: 3

NUMBER OF OCCUPANTS: 6

FOUNDATION FOR RESIDENCE:

☐ CONCRETE SLAB ☐ BASEMENT WITH PLUMBING
☑ CRAWL SPACE ☐ BASEMENT WITH NO PLUMBING

IF PLANNING TO EXPAND/ALTER THE EXISTING SYSTEM INDICATE THE FOLLOWING CHANGES: ☐ N/A

NUMBER OF BEDROOMS TO BE ADDED: 0

NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: 0

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE?: ○ Yes ◉ No

TYPE:

WATER SUPPLY:

☐ MUNICIPAL ☑ PRIVATE WELL ☐ PUBLIC WELL ☐ SHARED WELL ☐ OTHER

PROPOSED USE OF WELL:

○ N/A ○ IRRIGATION ◉ POTABLE (Drinking Water) ○ OTHER

PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE *(1-MOST 5-LEAST DESIRED)*:

☐ N/A ☑ ANY TYPE ☐ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER

RANK: 0 0 0 0 0

ARE ANY OF THE FOLLOWING LOCATED ON THE PROPERTY? IF SO, PLEASE SHOW LOCATION ON SITE PLAN/PLAT.

BURIED CABLES, LANDFILLS, STUMPHOLES	○ Yes ◉ No	GRADING/SOIL REMOVAL PERFORMED	○ Yes ◉ No
EXISTING WASTEWATER SYSTEMS	○ Yes ◉ No	JURISDICTIONAL WETLANDS	○ Yes ◉ No
WELLS, SPRINGS, OR WATER LINES	○ Yes ◉ No	APPROVAL REQ'RD BY OTHER AGENCY	○ Yes ◉ No
EASEMENTS OR RIGHT-OF-WAYS	○ Yes ◉ No	WASTEWATER OTHER THAN DOM. SEWAGE	○ Yes ◉ No
CHEMICAL/PETROLEUM STORAGE TANKS	○ Yes ◉ No	KNOWN UNDERGROUND CONTAMINATION	○ Yes ◉ No
WASTE STORAGE	○ Yes ◉ No	GROUNDWATER USE RESTRICTIONS/VARIANCES	○ Yes ◉ No

PROPERTY OWNER:				LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:			
NAME:	LISA AND DOYLE NEAL			NAME:			
ADDRESS:	18005 CALLAWAY HILLS LANE			ADDRESS:			
CITY:	DAVIDSON			CITY:			
STATE:	NORTH CAROLINA	ZIP:	28036	STATE:		ZIP:	
HOME PHONE:	704-905-9805	WORK:		HOME PHONE:		WORK:	
MOBILE:		FAX:		MOBILE:		FAX:	
EMAIL:	FAIROAKSLN@AOL.COM			EMAIL:			

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? ☐ UNKNOWN

WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? ☐ N/A

PRINT Update Go to Front Counter Duplicate

Residential Subsurface Wastewater Treatment and Disposal System Proposal

for

21511 Shearer Road
Davidson, NC 28036

Tax Parcel # 003-051-02
MCGWS File # 10793B
November 24, 2020

Prepared for:

Lisa and Doyle Neal
18005 Callaway Hills Lane
Davidson NC 28036
704-634-6316



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



Lisa and Doyle Neal have contracted with Thompson Environmental Consulting, Inc. (TEC) to develop a Session Law 2018-114 Section 11. (c) proposal for an on-site wastewater treatment and disposal system that would allow for the construction of 3-bedroom single family residence at 21511 Shearer Road, Davidson, North Carolina (County Parcel Number: 003-051-02).

Based upon a soil and site evaluation performed by TEC, it was determined that a sufficient amount of "Suitable" Group IV soils are available within the project study area for the installation of a **Gravity-Flow Accepted System** for a 3-bedroom residence (proposed repair system would be a pressure-dosed pre-fabricated permeable block panel system). The property will be served by a shared well.

The Neals would like to request that the Mecklenburg County Groundwater and Wastewater Services (MCGWS) issue the appropriate permits for a subsurface wastewater treatment and disposal system based upon the following proposal and the enclosed Licensed Soil Scientist Evaluation, which is being submitted pursuant to and meets the requirements of SL 2018-114 Section 11. (c).

Location

From Charlotte, take I-77 North to Exit 25 for NC-73 Concord/Huntersville. Turn right onto NC-73, travel 4 miles, and turn left onto Davidson-Concord Road. Turn right onto June Washam Road, travel 1.4 miles, and turn left onto Shearer Road. Property is located on the left in 3.1 miles.

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
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. Pipes and Fittings

1. All discharge piping, connectors and supply lines should be made of SCH 40 PVC.
2. All joints must be properly "welded" utilizing the appropriate PVC cement for each application.

C. Distribution Method

1. Drainlines will be fed via serial distribution.

D. 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 take place within the drainfield area while the soil is in a wet condition.
3. The specified system is an accepted wastewater system, specifically the Infiltrator Quick 4 chamber system or any other system with a state-approved 25% reduction in required drainline length.
4. The drainfield consists of five (5) lateral trenches to be constructed 3-foot wide by various lengths (1 at 40 feet, 1 at 55 feet, 2 at 70 feet, and 1 at 65 feet)
5. The maximum trench depth for this system shall be **33 inches**
6. The laterals are to be installed on contour with the land, keeping the individual trench bottoms level from beginning to end.
7. The trenches should be left open for the final inspection by the MCGWS.

E. Final Landscaping

1. Final cover over the drainfield shall be at least 6 inches deep.
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.

F. 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 MCGWS as soon as possible.
2. Lawn irrigation should not be placed over the drainfield area.

Maintenance

G. 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 that is equivalent to 25 percent of the volume of the tank. 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 it becomes necessary to clean the effluent filter, the filter should be removed and the accumulated debris 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)
Effluent Loading Rate:	0.3 GPD per sq. ft.
Drainfield Type:	Accepted 25% Reduction
Distribution Method:	Serial (Side Ports)
Number of Drainlines:	(5) 3' Wide 1 at 40 Feet 1 at 55 Feet 2 at 70 Feet 1 at 65 Feet

Total Trench Length:	300 Linear Feet
Maximum Trench Depth:	33 Inches
Final Cover Requirement:	6 Inches

Repair Specifics

Septic Tank Size:	Existing
Effluent Loading Rate:	0.3 GPD per sq. ft.
Drainfield Type:	Pressure-Dosed PPBPS
Total Trench Length Available:	205 Linear Feet
Maximum Trench Depth:	33 Inches
Final Cover Requirement:	6 Inches

I, DAVID M. MEDLIN CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION. LEGAL DESCRIPTION RECORDED IN DEED BOOK 8631 PAGE 210; THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS FROM INFORMATION FOUND IN DEED BOOK 8631 PAGE 210; THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10,000+; WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 22nd DAY OF NOV., A.D., 2020.

David M. Medlin

DAVID M. MEDLIN NCPLS

NORTH CAROLINA PROFESSIONAL SEAL L-4286 LAND SURVEYOR DAVID M. MEDLIN

NC GRID (NAD 83/2011)

NOW OR FORMERLY PROPERTY OF MECKLENBURG COUNTY DB 24093 PG 97 PIN: 00305113

POINT

N02° 45' 37"W 235.36'

BENT IRON FOUND

45' REAR YARD

LOT 1
APPROX. 1.01 ACRES
PIN: 00305102

15' SIDE YARD

N86° 02' 04"W 110.41'

POINT

S02° 24' 48"E 164.71'

IRON FOUND

UTILITY POLE

30

55' BLUE 55' ORANGE

35' PINK 65' BLUE 65' ORANGE 70' PINK 70' BLUE 55' ORANGE 40' PINK 25' BLUE

APPROVED SEPTIC SYSTEM DRAIN LINE AREAS

15' SIDE YARD

372.73'

S86° 05' 20"E

Septic Tank

NOW OR FORMERLY JIMMY ALLEN SHERILL DB 17108 PG 681 PIN: 00305103

LOT 2
(MB 29 PG 563)

N86° 05' 00"W 261.04'

OE

Shared Well

PROPOSED FOUNDATION

24.0' 42.0' #21511 42.0' 24.0'

20.1'

PROPOSED A/C UNIT LOCATION

PROPOSED SIDEWALK

PROPOSED DRIVE LOCATION

LOT 3
(MB 29 PG 563)

#21503

UTILITY POLE

80' FRONT SETBACK

108.2'

116.0'

DRIVE

NC GRID COORDS (NAD 83/2011)
N: 641,492.17'
E: 1,465,479.29'

N02° 27' 42"W 84.86' (TIE LINE)

PROPOSED 10' PUBLIC ACCESS EASEMENT

GRAVEL DRIVE

IRON FOUND

10'

PIPE FOUND

R/W

R/W

IRON FOUND

S02° 31' 51"E 70.64'

EDGE OF PAVEMENT

SHEARER ROAD
60' PUBLIC R/W
(MB 29 PG 563)

LEGEND:

R/W : RIGHT OF WAY

- EXISTING PROPERTY LINES
- LINES NOT SURVEYED (OR AS NOTED)
- EXISTING RIGHT OF WAY LINE
- —OE— EXISTING OVERHEAD UTILITY LINES
- EXISTING IRON FOUND
- EXISTING PIPE FOUND
- COMPUTED POINT (NO POINT SET)

This is a proposed septic layout and is not part of the survey.

GRAPHIC SCALE

0 60 90 120 180

(IN FEET)

1 inch = 60 ft

NOTES:

1. THIS PLAT IS SUBJECT TO ALL R/W'S, EASEMENTS AND RESTRICTIVE COVENANTS OF RECORD.
2. NO TITLE SEARCH OR ENVIRONMENTAL INVESTIGATION BY MEDLIN SURVEYING CO.
3. AREA BY COORDINATE METHOD.
4. THIS PLAT MAY BE RECORDED AS AN ATTACHMENT TO A DEED, ONLY.
5. SETBACKS AS SHOWN ARE FOR 'R-3' ZONING AS PER (MB 29 PG 563).

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

Sheet 1 of 1
PROPERTY ID #: 00305102
COUNTY: Mecklenburg

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

OWNER: Doyle Neel
ADDRESS: PO Box 372, Davidson, NC 28036
PROPOSED FACILITY: Res PROPOSED DESIGN FLOW (.1949): 3bdrm
LOCATION OF SITE: 2503 Sheaffer Road, Davidson, NC
WATER SUPPLY: [X] Private [ ] Public [X] Well [ ] Spring [ ] Other
EVALUATION METHOD: [X] Auger Boring [ ] Pit [ ] Cut

DATE EVALUATED: 11-17-20
PROPERTY SIZE: 1.013ac
PROPERTY RECORDED:
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	LS 6%	0-8	SBK/CL	FR/SS/SP/SE/P	–	48"	–	–	PS 0.3
		8-26	SBK/C	FI/S/P/SE/P					
		26-48	SBK/CL	FR/SS/SE/SE/P					
2	LS 6%	0-8	SBK/CL	FR/SS/S/SE/P	–	48"	–	–	PS 0.3
		8-28	SBK/C	FI/S/P/SE/P					
		28-48	SBK/CL	FR/SS/S/SE/P					
3	LS 6%	0-6	SBK/CL	FR/SS/S/SE/P	–	48"	–	–	PS 0.3
		6-30	SBK/C	FI/S/P/SE/P					
		30-48	SBK/CL	FR/SS/S/SE/P					
4									

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

OTHER FACTORS (.1946): Provi
SITE CLASSIFICATION (.1948):
EVALUATED BY: Larry Thom
OTHER(S) PRESENT:

LICENSED SOIL SCIENTIST – THOMPSON JR – 1287 – STATE OF NORTH CAROLINA

COMMENTS:

Updated February 2014

The LSS Evaluation is being submitted pursuant to and meets the requirements of SL 2018-114 Section 11.(c).

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.

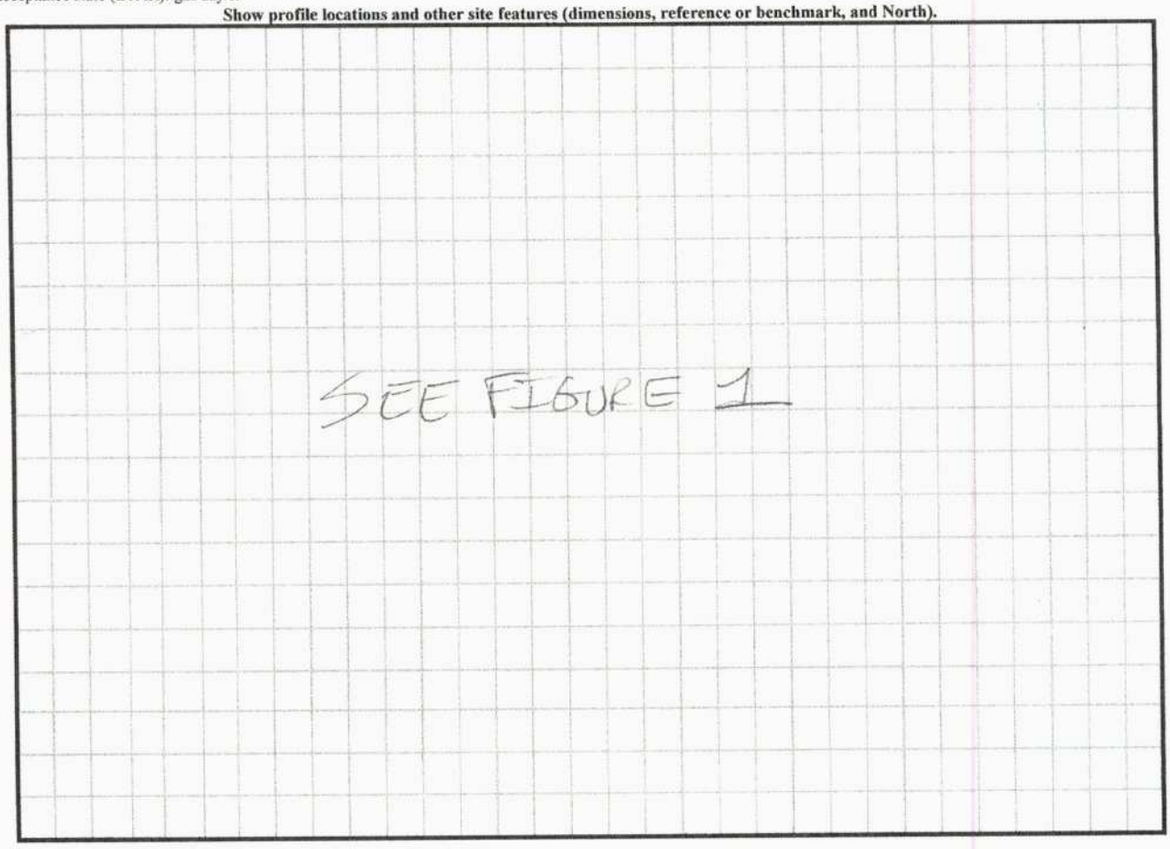
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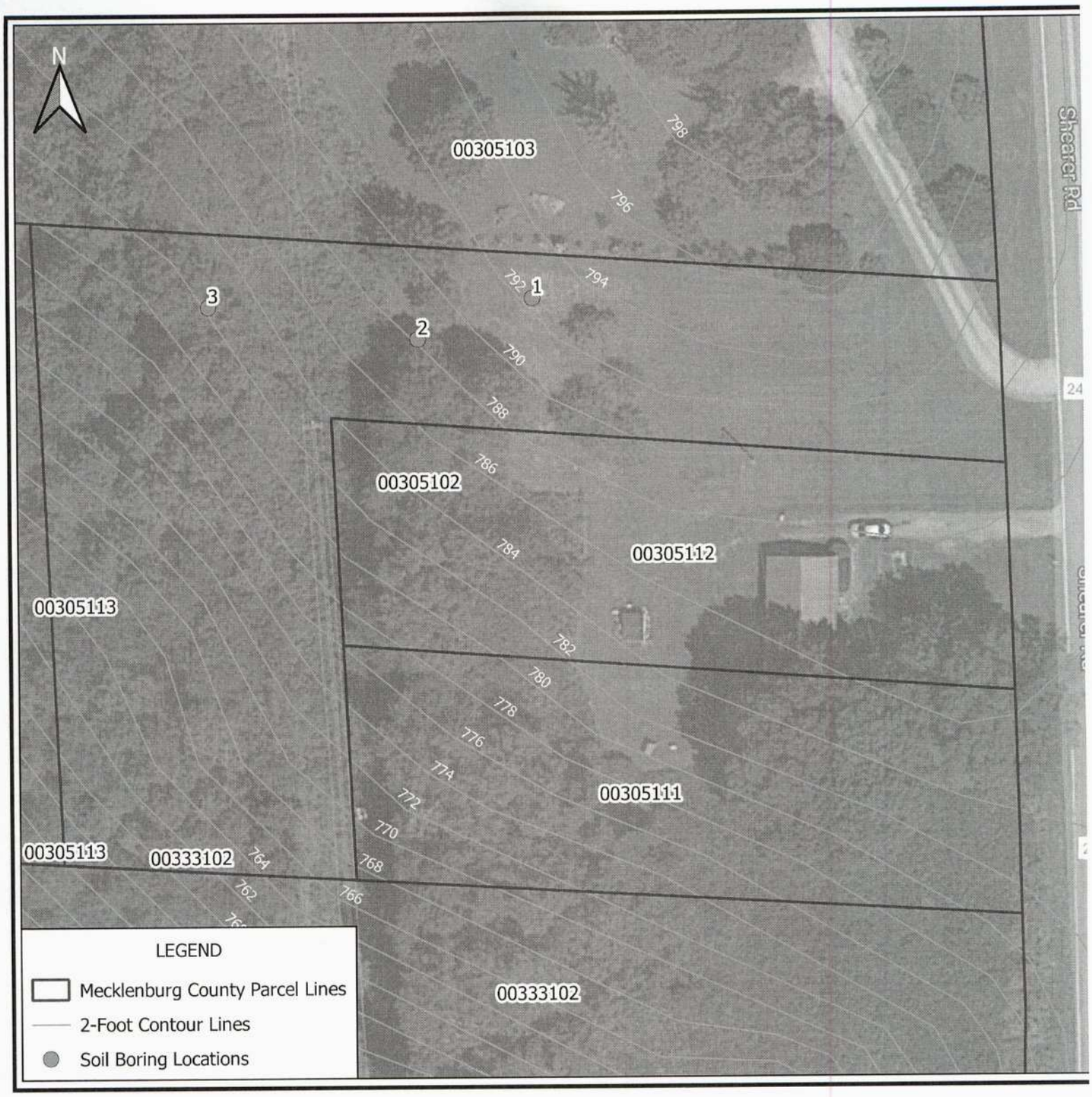
HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or 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

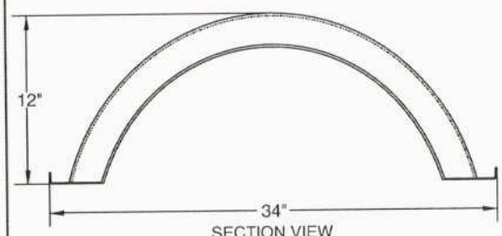
Show profile locations and other site features (dimensions, reference or benchmark, and North).



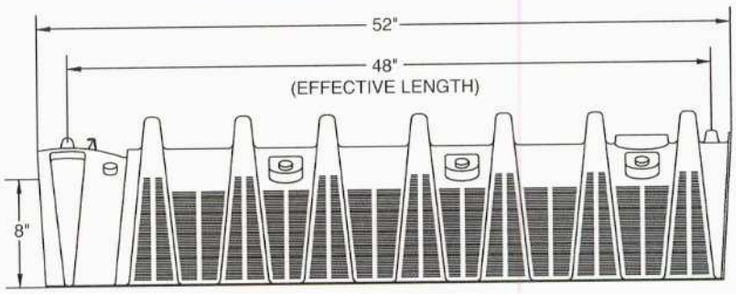

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768
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764
762
1
2
3
Shearer Rd
00305102
00305112
00305113
00305111
00305113
00333102
00333102
LEGEND
Mecklenburg County Parcel Lines
2-Foot Contour Lines
Soil Boring Locations

Quick4™
STANDARD CHAMBER

Quick4 Standard Chamber

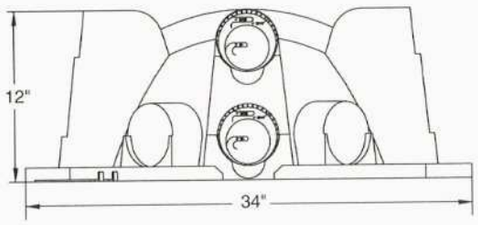


SECTION VIEW

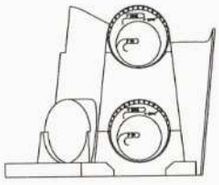


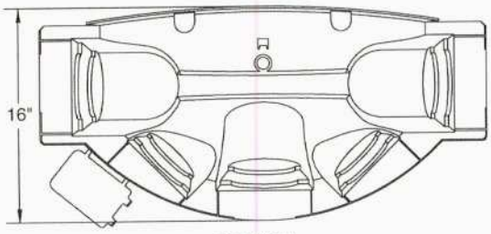
SIDE VIEW

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

Q011203HP-0

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 10793B Permit #: 11716 Tax Parcel #: 603-051-02

Property Owner: Doyle Neal

Job Location Address: 2511 Shearer Rd

City: Davidson State: NC Zip Code: 28036

Operation Permit Issuance Date: 10-7-21 Contractor Name: Lago Vista LLC

Permitted Design Flow: 360 GPD Liquid Capacity of Dosing Tank: Na gallons

Liquid Capacity of Septic Tank: 1000 gallons Tank Manufacture STB 760 Effluent Pump Model: Na

Drainfield Installation ☐ N/A

Trench Depth: 26 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 300 feet

# of Lines: 5 @ Vary feet 1x40'; 1x55'; 2x70'; 1x65'

Depth of Media: 12 inches (Type) CHPN 36

Depth of Cover: 12 inches

Distribution Device: End Cap to End Cap

Bed Installation *(For Repair Installations ONLY.)* ☑ N/A

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Depth of Cover: _____ inches

Distribution Device: _____

Water Supply Source

☐ Municipal ☐ Private Well ☐ Community Well

☑ Other Shared Well

System Installation Setbacks

Distance from Building Foundation: 10 feet

Distance from Property Line: 10 feet

Distance from Water Supply Source: 100 feet

Inspection Dates

Tank(s) Inspected: 10-7-21

Excavation Inspected: 10-7-21

Pump & Controls Inspected: Na

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)

The undersigned has inspected the Septic Tank System described above, and certifies it has been ☑ installed ☐ altered ☐ repaired ☐ as detailed in the plot above ☑ in accordance with the permit issued and meets the provisions of 15A NCAC 18A. 1900, "Laws and Rules for Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. The issuance of this Operation Permit does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 15A NCAC 18A. 1900 in addition to those listed below under "Comments." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

Notice: Disturbance of the designated repair area may result in the Suspension or Revocation of this permit.

Comments: System Classification & Type: III g / Chm36 / G / Na / Na

DENR Authorized Agent: Heather Ray Signature: [signature]

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3205 Freedom Dr. Suite 8000, Charlotte, NC 28208
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NC DHHS
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 107933 Permit #: 11716 Tax Parcel #: 003-051-02

Property Owner: Doyle Neal

Job Location Address: 21311 Shearer Rd

City: Davidson State: NC Zip Code: 28036

OPERATION PERMIT CONDITIONS:

I. Performance: System shall perform in accordance with 15A NCAC 18A .1961.

II. Monitoring: System shall be monitored as required by 15A NCAC 18A .1961.

III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

IV. Operation: System shall be operated in accordance with 15A NCAC 18A .1961.

System Classification: III J

*Operation Permits for Type V and VI systems expire five (5) years from the date of issuance (in accordance with Table V(a)). The system owner must contact GWS six (6) months prior to expiration for permit renewal.

Subsurface system operator required: Yes ☐ No ☑

☐ This type of system requires the system owner to maintain a contract with a certified operator to perform system inspection, maintenance, and reporting as required in 15A NCAC 18A .1961. and Table V(a). The system owner is responsible for all fees associated with these services.

☐ System does not require inspection by GWS on a routine frequency.

☐ System requires inspection by GWS once every five (5) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every three (3) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every twelve (12) months. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every six (6) months. The system owner is responsible for all fees associated with the inspection.

V. Other: _____

_____

_____

_____

DENR Authorized Agent: Heather Ray Date: 10-7-21

Signature: Heather Ray

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr. Suite 8000 Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

Septic System Pre-Construction Meeting Checklist

File # 10793B App# 11716 Tax Parcel# 603-051-02

Property Owner: Doyle Neal

Job Location Address: 21511 Shearer Rd

City: Davidson State: NC Zip Code: 28036

1. Does System design match facility, flow & wastewater characteristics?

   ☑ YES ☐ NO

   Comments: _____

2. Is there sufficient available space for the septic systems initial and repair areas?

   ☑ YES ☐ NO

   Comments: _____

3. Can the septic system be installed per the permit conditions and drawing on file?

   ☑ YES ☐ NO

   Comments: _____

*If "NO" is checked for any of the above the existing permit may need to be revoked.

Permission is hereby given to ☐ install ☐ alter ☐ repair an on-site wastewater treatment & and disposal system, with subsurface soil absorption and effluent discharge meeting all of the construction requirements of 15A NCAC 18A .1900 which are in effect on the date of granting this approval. **System shall not be installed while soils are in wet condition.**

Heather Ray
Authorized Agent

10-7-21
Date

Others Present

THOMPSON ENVIRONMENTAL CONSULTING, INC.
WATER ♦ WASTEWATER ♦ WETLANDS

October 7, 2021

Kimberly S. Garrett, REHS
Mecklenburg County Groundwater and Wastewater Services
700 N. Tryon Street
Charlotte, NC 28202

Dear Ms. Garrett,

The purpose of this letter is to inform you that I have performed an inspection of the wastewater treatment and disposal system installed for 21511 Shearers Road, Davidson, NC and I am satisfied that it meets the intent of the original proposal provided to your office.

Please feel free to call on me if you have any further questions or concerns regarding this project.

Sincerely,

Larry B. Thompson, Jr., NCEHS, LSS

PO BOX 541 • MIDLAND, NC • 28107-0541
PHONE: 704-301-4881 • FAX: 206-350-8895
E-MAIL: LARRY@THOMPSONENV.COM
WEB: WWW.THOMPSONENV.COM

FEE: 200.00
DATE: 6/24/2021

CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 10793B

PERMIT NUMBER: 30011716

PARCEL NUMBER: 00305102

JOB LOCATION INFORMATION

ADDRESS: 21511 SHEARER RD

CITY: DAVIDSON **STATE: NC** **ZIP:** 28036

ISSUED TO: LISA AND DOYLE NEAL

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 6/23/2021

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30011716, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

2. A PRE-CONSTRUCTION MEETING MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A LICENSED SEPTIC TANK CONTRACTOR WITH THE NORTH CAROLINA ONSITE WASTEWATER CONTRACTOR INSPECTOR CERTIFICATION BOARD.

3. ANY ALTERATION IN SITE OR SOIL CONDITIONS (INCLUDING LOCATION OF STRUCTURES AND APPURTENANCES) OR MODIFICATION IN USE, DESIGN WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS AS SPECIFIED IN THE ASSOCIATED IMPROVEMENT PERMIT AND APPLICATION, MAY SUBJECT THIS CONSTRUCTION AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. THIS CONSTRUCTION AUTHORIZATION AS PROVIDED IN G.S. 130A-335(f) AND G.S. 130A-336(b) SHALL BE VALID FOR A PERIOD EQUAL TO THE VALIDITY OF THE IMPROVEMENT PERMIT, AND MAY BE ISSUED AT THE SAME TIME THE IMPROVEMENT PERMIT IS ISSUED.

Authorized Agent Signature _____