Supervisor/Administrative Professional Checklist

New Septic ☑ **New Well** ☐ **Use Existing** ☐ **Alteration** ☐ **Modified Plot Plan** ☐

New Septic Fees Paid:

IP ($250.00) ✓ _____ Initials/Date

CA ($200.00) _____ Initials/Date

OP ($200.00) _____ Initials/Date

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

New Well Fee Paid: $550.00 _____ Initials/Date

Use Existing Fee Paid: $100.00 _____ Initials/Date

Alteration Fee Paid: $300.00 (Total) $200 (If use existing was paid)_____ Initials/Date

Modified Plot Plan Fee Paid: $100.00 _____ Initials/Date

Floor plans need to be submitted and reviewed before CA can be issued. ☑ Reviewed ☐ ____

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

Septic file completed. ☐ _____ Well file completed. ☐ _____

Send permit for signature. ☑ Signature received. ☑ _____

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

Certified operator contract is on file. ☐ _____

Groundwater & Wastewater Services: Septic Project File & D

GWS File #:	8226B
WASPS App #:	9660
Primary ES assigned to project:	Jacob Presley
Secondary ES assigned to project:	
Project Type:	New System
Site Evaluation Information: .1939(a)(1) - Topography and Landscape Position Recorded?	Yes
Site Evaluation Information: .1940(a-g) - Slope % Recorded?	Yes
Site Evaluation Information: .1939(a)(2) - Texture Class Recorded?	Yes
Site Evaluation Information: .1939(a)(2) - Structure Type Recorded?	Yes
Site Evaluation Information: .1939 (a)(2) - Consistence Recorded?	Yes
Site Evaluation Information: .1939(a)(2) - Mineralogy Recorded?	Yes
Site Evaluation Information: .1939(a)(3) - Soil Wetness Condition Recorded?	Yes
Site Evaluation Information: .1939(a)(4) - Soil Depth to Rock or Parent Material Recorded when Encountered?	Yes
Site Evaluation Information: .1939(a)(5) - Depth to Restrictive Horizons Recorded when Encountered?	Yes
Site Evaluation Information: .1939(a)(6) - Sufficient Available Space Recorded?	Yes
Site Evaluation Information: .1937(m) - Are the Profile Locations Shown?	Yes
Site Evaluation Information: .1939(a) - Are the S/PS Profiles in system & in repair area?	Yes
Site Evaluation Information: .1939(d), .1955, .1956, .1957 - LTAR	Yes
Improvement Permit/Construction Authorization: .1937(g), 130A-336(a) - Proposed System Type stated - Initial	Yes
Improvement Permit/Construction Authorization: .1945(b) - Proposed System Type stated - Repair	N/A
Improvement Permit/Construction Authorization: 130A-336(a)(3) - System location identifiable by setbacks - Initial	Yes
Improvement Permit/Construction Authorization: .1937(g), .1945(b) - System components shown - Initial	Yes
Information Permit/Construction Authorization: .1945(b) - Repair area shown	N/A
Improvement Permit/Construction Authorization: .1937(f)(g) - Does System design match facility, flow & WW characteristics?	Yes
Improvement Permit/Construction Authorization: .1937(f)(g) - Is System design consistent with soil/site conditions?	Yes
Improvement Permit/Construction Authorization: .1937(f)(g) - Is the System located in the approved area?	Yes
Improvement Permit/Construction Authorization: 130A-336(a) - Number of Bedrooms, employees, seats, etc. indicated?	Yes
Improvement Permit/Construction Authorization: .1937 (g) - Trench depth correct?	Yes
Improvement Permit/Construction Authorization: .1937(g) - Trench width correct?	Yes
Improvement Permit/Construction Authorization: .19379(g) - Trench length correct?	Yes
Improvement Permit/Construction Authorization: 130A-336(a)(1) - Proposed/existing well shown?	Yes

Improvement Permit/Construction Authorization: 130A-336(a)(1) - Property line lengths shown?	Yes
Improvement Permit/Construction Authorization: 130A-336(a) - Facility/appurtenance setbacks shown from fixed points?	Yes
Corrections/modifications needed?	No
Comments:	
IA issued date:	
OP Issued date:	
Review performed by:	Jeremy Michael
Date performed:	8/28/2018

Created at 8/28/2018 3:41 PM by Michael, Jeremy
Last modified at 8/28/2018 3:41 PM by Michael, Jeremy

Close

8226B
#9660

23 MAY '18 PM 2:06

MECKLENBURG COUNTY
HEALTH DEPARTMENT

APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

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

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

3. **JOB LOCATION INFORMATION:**

TAX PARCEL NUMBER: 21719147
STREET ADDRESS: 18016 Broken Woods Rd
CITY: Charlotte
STATE: NC ZIP: 28278
SUBDIVISION NAME:
LOT #: 144 LOT SIZE (acres): 1.00

TOWNSHIP:
◉ MECKLENBURG ○ CORNELIUS ○ HUNTERSVILLE
○ DAVIDSON ○ CHARLOTTE ○ PINEVILLE
○ MATTHEWS ○ MINT HILL

4. **BUILDING INFORMATION:**

BUILDING TYPE:
○ SINGLE MOBILE HOME ○ MODULAR HOME
○ DOUBLE WIDE ○ MULTIPLE FAMILY
◉ HOUSE ○ OTHER
HEATED SQUARE FOOTAGE: 5,650
NUMBER OF BEDROOMS: 4
NUMBER OF OCCUPANTS: 8

FOUNDATION TYPE:
○ CONCRETE SLAB ◉ BASEMENT WITH PLUMBING
○ CRAWL SPACE ○ BASEMENT WITH NO PLUMBING

5. **IF PLANNING TO EXPAND OR ALTER THE EXISTING SEPTIC SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION:** ☑ N/A

NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. **WATER SUPPLY:** ○ MUNICIPAL ◉ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER _____

7. **PROPOSED USE OF WELL:** ○ N/A ○ IRRIGATION ◉ POTABLE (DRINKING WATER) ○ OTHER _____

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

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

8A. **RANK:** 1 ____ ____ ____ ____

9. **DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.**

BURIED CABLES, LANDFILLS, STUMPHOLES	○ YES ◉ NO	GRADING/SOIL REMOVAL PERFORMED	○ YES ◉ NO
EXISTING WASTEWATER (SEPTIC) SYSTEMS	○ YES ◉ NO	JURISDICTIONAL WETLANDS	○ YES ◉ NO
WELLS, SPRINGS, OR WATER LINES	○ YES ◉ NO	APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	○ YES ◉ NO
EASEMENTS OR RIGHT-OF-WAYS	○ YES ◉ NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	○ YES ◉ NO
CHEMICAL/PETROLEUM STORAGE TANKS	○ YES ◉ NO	KNOWN UNDERGROUND CONTAMINATION	○ YES ◉ NO
WASTE STORAGE	○ YES ◉ NO	GROUNDWATER USE RESTRICTIONS/VARIANCES	○ YES ◉ NO

10. **WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED?** 8/26/76 ☐ UNKNOWN

11. **WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?** 6/8/18 ☐ N/A

12. **PROPERTY OWNER:**

NAME: Adam Borman
ADDRESS: 355 W MLK Jr Blvd unit 2020
CITY: Charlotte
STATE: NC ZIP: 28202
WORK PHONE: (914) 844-7721
MOBILE PHONE:
FAX:
E-MAIL: aborma@yahoo.com

13. **OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:**

NAME:
ADDRESS:
CITY:
STATE: ZIP:
WORK PHONE:
MOBILE PHONE:
FAX:
E-MAIL:

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 980-314-1680, FAX: 704-336-6894
Email: Wellreg@MecklenburgCountyNC.gov

Revised on: 4/20/17

14. SEPTIC SYSTEM PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for either sixty (60) months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

AKB (Initial here for septic system applications)

15. WELL PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for a period of twelve (12) months from the date of issuance.

AKB (Initial here for well applications)

16. APPLICATION SIGNATURE SECTION:

ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. A proper signature is required in order to process your application. Please review the application carefully and sign in the space provided below. A PROPOSED PLOT PLAN is required to be submitted with each application.

Property Owner's or Owner's Legal Representative Signature

5/23/18
Date

OFFICE USE ONLY

O SURVEY PLAT TO SCALE SUBMITTED O SCALED SITE PLAN SUBMITTED O UN-SCALED SITE PLAN SUBMITTED

SEPTIC APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

WELL APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

APPLICATION PROCESSED BY: _____

GWS FILE NUMBER ASSIGNED: _____

APPLICATION ID NUMBER ASSIGNED: _____

COMMENTS:

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 980-314-1680, FAX: 704-336-6894
Email: Wellreg@MecklenburgCountyNC.gov

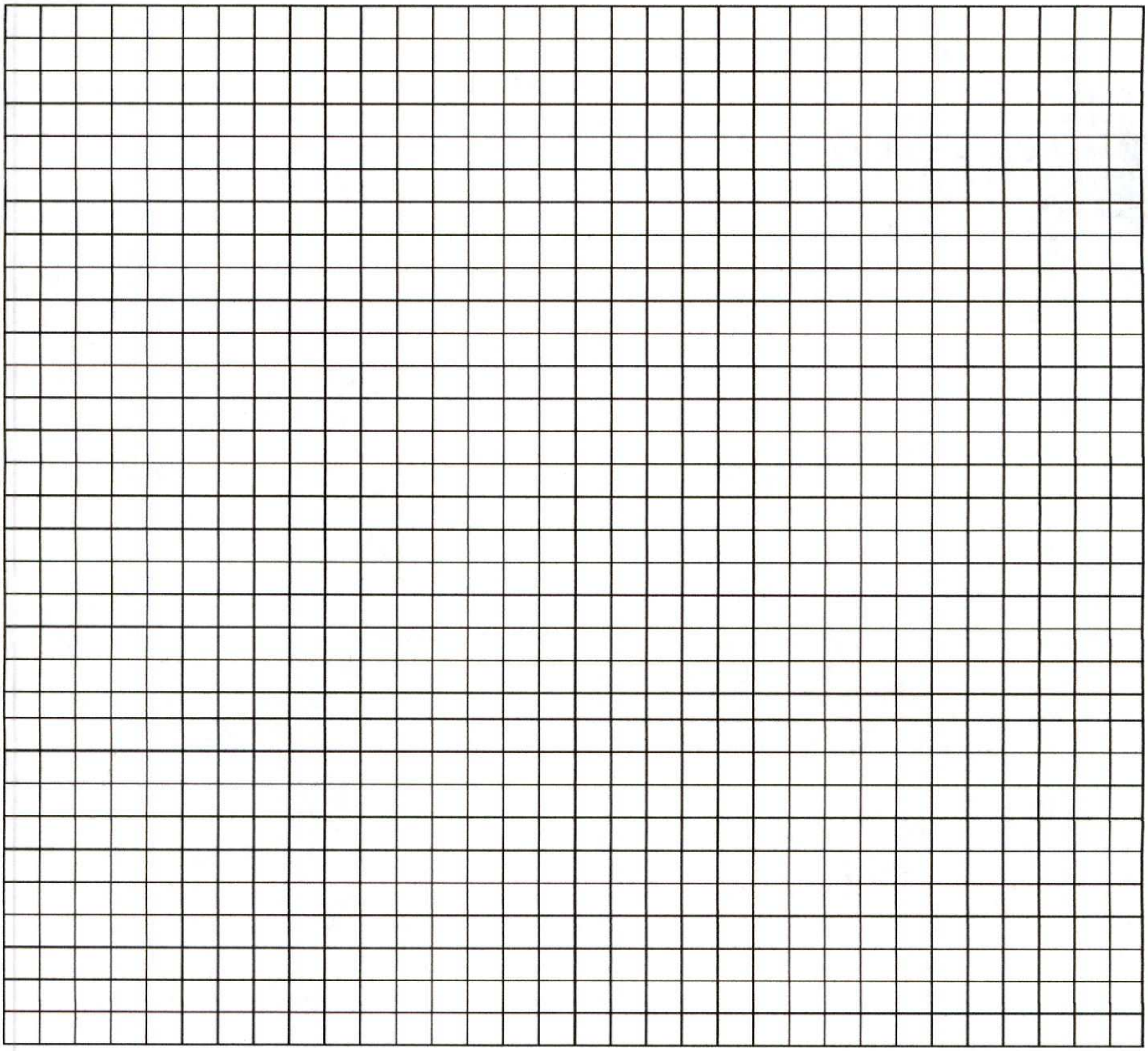
File #: _____

PROPOSED PLOT PLAN

A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), location of existing or proposed sewer lines and sewage disposal systems, surface water bodies, and any aboveground or underground storage tanks. Provide names for all roads that adjoin the property.

Street Address: _____ Tax Parcel #: _____

Subdivision Name: _____ Lot #: _____



_____ _____

Property Owner's or Owner's Legal Representative Signature Date

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 980-314-1680, FAX: 704-336-6894
Email: Wellreg@MecklenburgCountyNC.gov

Revised on: 4/20/17

MECKLENBURG COUNTY

Gibbie Harris, MSPH, BSN
Health Director

Public Health

(704) 336-4700

Addendum to Application for
New Well or Septic System Installation
Abandonment or Repair of Existing Well or Septic System

Your signature below confirms the following:

1. The information on the application is true, complete and accurate.
2. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliances with applicable laws and rules.
3. I acknowledge that Adam Bowman is acting as my legal representative (agent) in the submittal of the application for a water supply well or septic permit located at

18016 Bakers Woods Rd
Number Street Town
(Or parcel Number)

Fairchild Partners
Property Owner (print name)

Harold R Fairchild
Property Owner (signature)

5/25/2018
Date

Payment Receipt

Mecklenburg County POS

Environmental Health
700 N. Tryon Street
Charlotte, NC 28202
Phone: 704-336-5100

Enter Account # or Customer Name Here: ADAM BORMAN

Bill To:

ADAM BORMAN
355 W MLK JR. BLVD UNIT 2020

Charlotte, NC 28202

Single Payment

Transaction Date: 05/25/2018 8:10 AM Pacific Time
Pay Method: VISA **********7916
Approval #: 00678D
Trace Number: e565081f-f9b8-468d-87fc-3d5786ebdfe0
Amount: $250.00

Payment Amount: $250.00

Total: $250.00

Thank you for your payment.

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 05/25/18
Receipt #: 111372
Check / Auth #: VISA 00678D
Received By: ABDUSAI

Amount: 250.00
Tendered: 250.00
Returned: 0.00

Account Information

Account #: 200000
Contractor: BORMAN, ADAM
Attn:
Address: 355 W. MLK JR BLVD
Address:
City/State/Zip: CHARLOTTE, NC 28202

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 18016 BROKEN WOODS RD		1	250.00	250.00

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

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

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 3
Property ID: 217-191-47
Lot #: 144
File #: 8226B
AppID: 9660

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Property Owner: Adam Borman
Address: 355 W MLK Jr Blvd Unit 2020
Proposed Facility: 4 Bedroom House
Design Flow (.1949): 480 GPD
Location: 18016 Broken Woods Rd Charlotte
Water Supply: [ ] Public [x] Individual [X] Well
Evaluation Method: [ ] Auger Boring [x] Pit
Type of Wastewater: [X] Sewage [ ] Industrial Process

Applicant: owner
Date Evaluated: 6/15/18 & 7/24/18
Property Size: 1.0 ac
Property Recorded: 8/26/1976
[ ] Spring [ ] Municipal
[ ] Cut
[ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Pit	LS	0 - 15	gr SL	SS SP FR SEXP						PS IV	
#1	12%	15 - 29	sbk C	S P FI SEXP	>48"	29"	US	NA		0.225	13"
		29 - 48	mass SCL Sap	SS SP FR SEXP							Need Cover
Pit	LS	0 - 16	gr SL	SS SP FR SEXP	20"						
#2	5%	16 - 24	sbk SCL	S P FI SEXP	10yr 6/2	54"	NA	NA		PS IV	NA
		24 - 54	sbk C	S P FI SEXP						Drip 0.1	
Pit	LS	0 - 4	Fill								
#3	5%	4 - 14	gr SL	SS SP FR SEXP	16"					PS IV	NA
		14 - 34	sbk SCL	SS SP FR SEXP	7.5yr 6/1	64"	NA	NA		Drip 0.1	
		34 - 64	sbk C	S P FI SEXP							
Pit	LS	0 - 6	gr SL	SS SP FR SEXP					0 - 13" Compacted		
#4	5%	6 - 21	sbk SCL	SS SP FR SEXP	21"					US	NA
		21 - 28	platy C	S P FI SEXP	7.5yr 6/1	28	US	NA			
		28 - 62	mass SCL Sap	SS SP FR SEXP							
Pit	LS	0 - 7	gr SL	SS SP FR SEXP					0 - 13" Compacted		
#5	5%	7 - 14	sbk SCL	SS SP FR SEXP	15"	28	US	NA		US	NA
		14 - 28	sbk C	S P FI SEXP	10yr 6/2						
		28 - 58	mass SCL Sap	SS SP FR SEXP							
Pit	LS	0 - 8	gr SL	SS SP FR SEXP							
#6	4%	8 - 14	sbk SCL	SS SP FR SEXP	10yr 6/2					PS IV	NA
		14 - 28	sbk C	S P FI SEXP	23"	28	US	NA		Drip 0.1	
		28 - 63	mass SCL Sap	SS SP FR SEXP							
Pit	LS	0 - 14	gr SL	SS SP FR SEXP							
#7	13%	14 - 30	sbk SCL	SS SP FR SEXP	10 YR 6/2	39"	US	NA		PS IV	22"
		30 - 39	sbk C	S P FI SEXP	41"					0.225	
		39 - 60	mass SCL Sap	SS SP FR SEXP							

Description	Initial System	Repair System
Available Space (.1945)	PS	Exempt
System Type(s)	IIIg	Exempt
Site LTAR (gpd/sq ft)	**0.225**	**Exempt**

Other Factors (.1946): NA
Soil Evaluation By: Jacob Presley, REHS, LSS
Others Present: Heather Ray
Site Classification (.1948): Provisionally Suitable
Site Evaluation By: Jacob Presley, REHS, LSS
Others Present:

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
CONTINUED

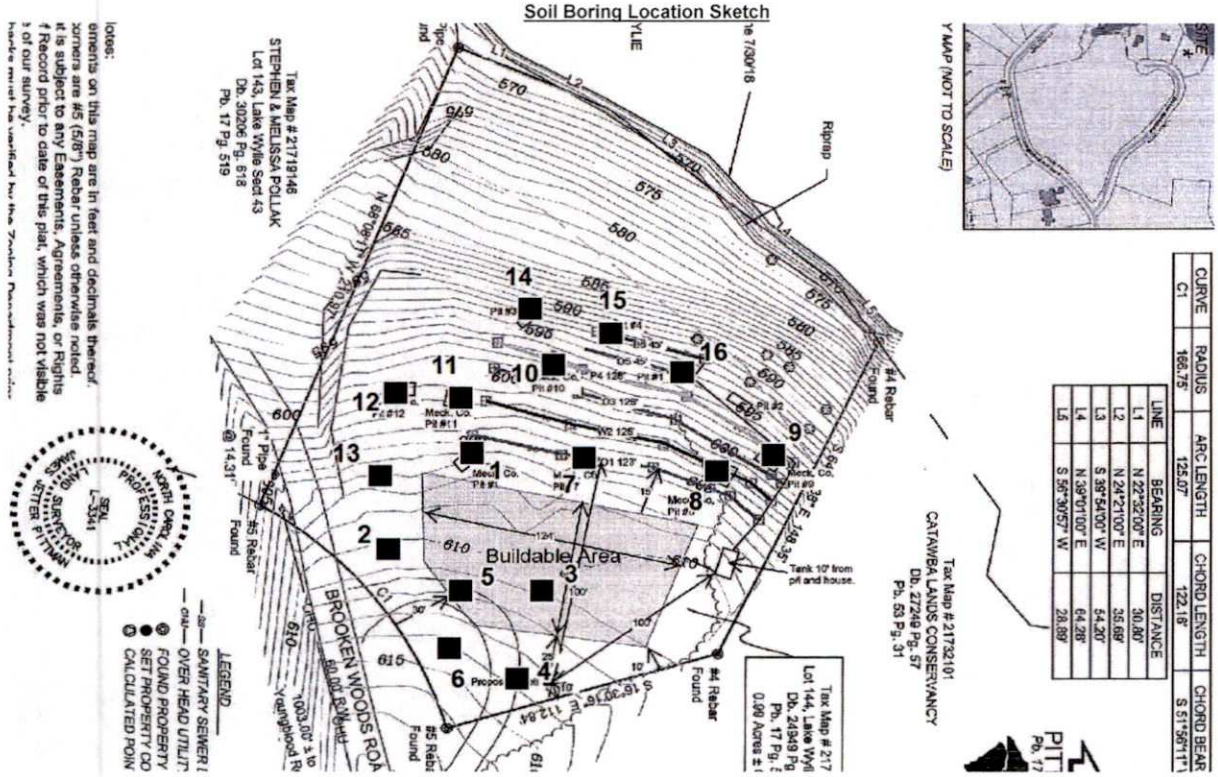
PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Pit	LS	0 - 14	gr SL	SS SP FR SEXP							
#8	16%	14 - 30	sbk SCL	SS SP FR SEXP	>53"	30	US	NA		**PS III**	**12"**
		30 - 53	mass SCL Sap	SS SP FR SEXP						**0.3**	**Need Cover**
Pit	LS	0 - 19	gr SL	SS SP FR SEXP							
#9	16%	19 - 55	mass SL Sap	SS SP FR SEXP	>55"	19"	PS	NA		**PS II**	**25"**
										0.4	
Pit	LS	0 - 8	gr SL	SS SP FR SEXP							
#10	12%	8 - 17	sbk SCL	SS SP FR SEXP	>52"	29	US	NA		**PS IV**	**12"**
		17 - 29	sbk C	S P FI SEXP					saprolite inclusions	**0.225**	**Need Cover**
		29 - 52	mass SCL Sap	SS SP FR SEXP					17 - 29"		
Pit	LS	0 - 9	gr SL	SS SP FR SEXP							
#11	12%	9 - 18	sbk SCL	SS SP FR SEXP	>55"	29	US	NA	saprolite inclusions	**PS IV**	**12"**
		18 - 29	sbk C	S P FI SEXP					18 - 29"	**0.225**	**Need Cover**
		29 - 55	mass SCL Sap	SS SP FR SEXP							
Pit	LS	0 - 9	gr SL	SS SP FR SEXP							
#12	12%	9 - 19	sbk SCL	SS SP FR SEXP	>48"	24"	US	NA		**PS IV**	**NA**
		19 - 24	sbk C	S P FI SEXP						**Drip 0.1**	
		24 - 48	mass SCL Sap	SS SP FR SEXP							
Pit	LS	0 - 13	gr SL	SS SP FR SEXP							
13	12%	13 - 24	sbk SCL	SS SP FR SEXP	>48"	24"	US	NA		**PS IV**	**NA**
		24 - 48	mass SCL Sap	SS SP FR SEXP						**Drip 0.1**	
Pit	LS	0 - 40	Fill								
#14	17%				>40"	0	NA	NA		**US**	**NA**
Pit	LS	0 - 14	gr SL	SS SP FR SEXP			US				
#15	17%	14 - 31	sbk C	S P FI SEXP	>60"	31	31-50	NA	saprolite inclusions	**PS IV**	**13"**
		31 - 50	mass SCL Sap	SS SP FR SEXP			PS		24 - 31"	**0.225**	**Need Cover**
		50 - 60	mass SL Sap	SS SP FR SEXP			50-60				
Pit	LS	0 - 14	gr SL	SS SP FR SEXP							
#16	16%	14 - 30	sbk C	S P FI SEXP	>56"	30	PS	NA		**PS III**	**28"**
		30 - 56	mass L Sap	SS SP FR SEXP						**0.25**	

COMMENTS: There is some space available for drip repair area near lake buffer and south side of property.

Landscape Position	Group	Texture	.1955 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	sg-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		mass-Massive
LS-Linear Slope				cr-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	gr-Granular
NS-Nose Slope		L-Loam		sbk-Subangular Blocky
HS-Head Slope				abk-Angular Blocky
CC-Concave Slope	III	Si-Silt	0.6 - 0.3	pl-Platy
		SiCL-Silty Clay Loam		
CV-Convex Slope				pr-Prismatic
T-Terrace				Sap-Saprolite
FP-Flood Plain		CL-Clay Loam		**Structure Prefixes**
D-Drainage Way		SCL-Sandy Clay Loam		w-weak m-moderate s-strong f-fine m-medium c-coarse
	IV	SC-Sandy Clay	0.4 - 0.1	
		SiC-Silty Clay		
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	SS-Slightly Sticky	SEXP-Slightly Expansive
FR-Friable	S-Sticky	EXP-Expansive
FI-Firm	VS-Very Sticky	
VFI-Very Firm	NP-Non-Plastic	**Classification**
EFI-Extremely Firm	SP-Slightly Plastic	US-Unsuitable
	P-Plastic	PS-Provisionally Suitable
	VP-Very Plastic	S-Suitable
		NA-Not Applicable

Soil Boring Location Sketch



CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEAR
C1	166.75	125.07	122.18	S 51°56'11"E

LINE	BEARING	DISTANCE
L1	N 22°32'00" E	30.80'
L2	N 24°21'00" E	35.68'
L3	S 39°54'00" W	54.20'
L4	N 39°01'00" E	64.26'
L5	S 56°30'57" W	28.89'

Notes:
Comments on this map are in feet and decimals thereof.
Corners are #5 (5/8") Rebar unless otherwise noted.
It is subject to any Easements, Agreements, or Rights of Record prior to date of this plat, which was not visible of our survey.
Lake must be verified by the Zoning Department prior

NORTH CAROLINA PROFESSIONAL LAND SURVEYOR SEAL L-3341 JAMES PETTER PITTMAN

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet 1 *of* 1
PROPERTY ID #:21719147;18016 Broken Woods Rd.
COUNTY: Mecklenburg

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

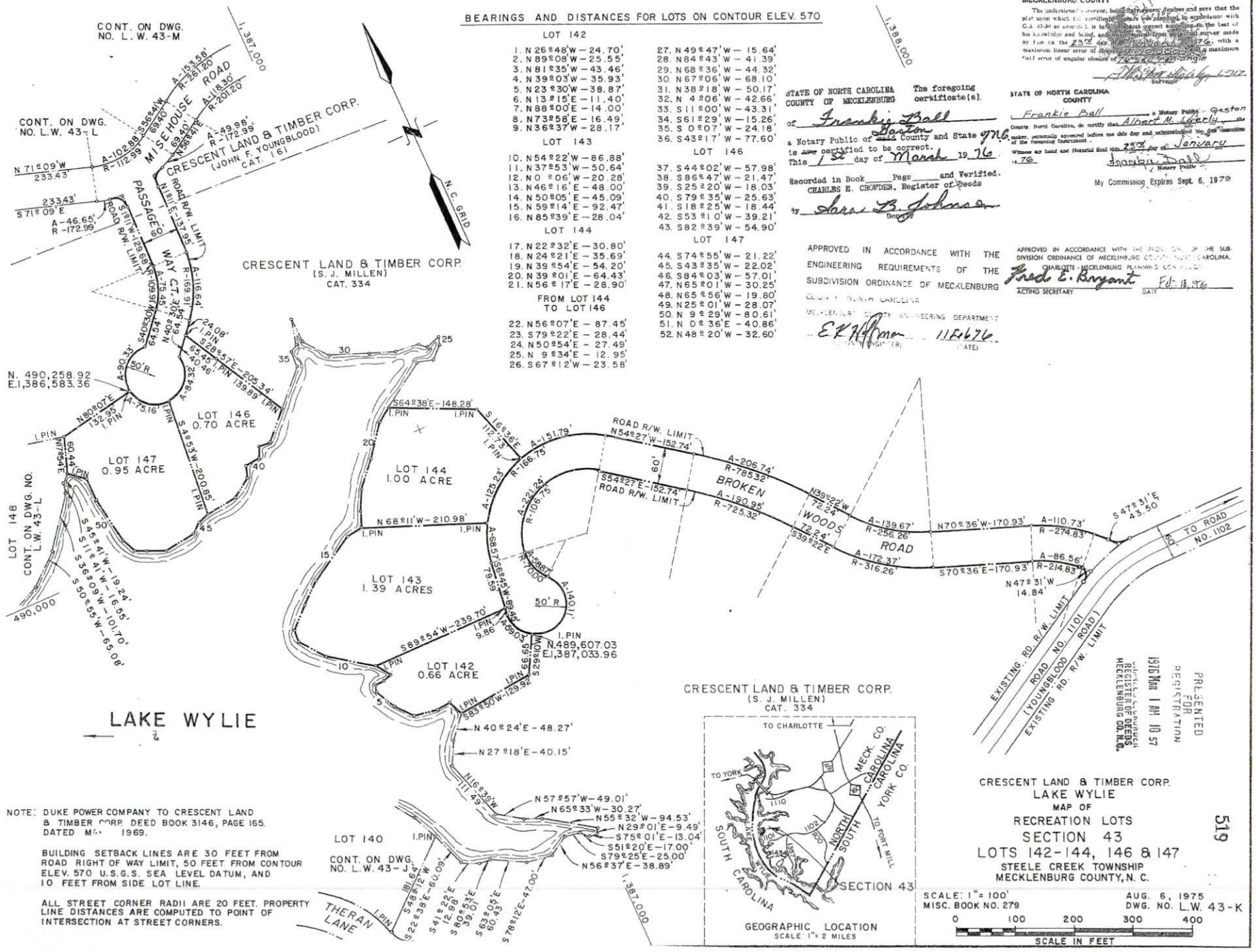
OWNER: Foundation Homes and Development LLC APPLICATION DATE
ADDRESS: 5121 Winding Brook Road Charlotte, NC 28276 DATE EVALUATED: 8/2018
PROPOSED FACILITY: 4 bedroom Residence PROPOSED DESIGN FLOW (.1949): 480 gpd PROPERTY SIZE: 1.00 Acres
LOCATION OF SITE: 18016 Broken Woods Road Charlotte, NC 28278 PROPERTY RECORDED: 2/11/1976
WATER SUPPLY: Ξ Private ☐ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☐ Auger ☐ Boring X Pit ☐ Cut TYPE OF WASTEWATER: Ξ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
Pit 1	LS 17-18%	0"-14"	YBr SL WSBK	SS SP FR SEXP	None	28"	PS	None	0.25
		14"-28"	R C WSBK	SS SP FR SEXP					
		28"-61"	V L Saprolite M	SS SP FR SEXP					
Pit 2	LS 17-18%	0"-24"	V L Saprolite M	SS SP FR SEXP		0"	PS to 24"	24"	0.1+ Drip
Pit 3	LS 17-18%	0"-40"+	Fill						Unsuitable
Pit 4	LS 17-18%	0"-5"	Fill			31"	PS	None	0.25
		5"-19"	YBr SL WSBK	SS SP FR SEXP					
		19"-31"	R C ABK	SS SP FR SEXP					
		31"-64"	V SL Saprolite M	SS SP FR SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1605 ft2	Repair Exempt
System Type(s)	25% Reduction	n/a
Site LTAR	0.225	n/a

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948):
EVALUATED BY: MA&A
OTHER(S) PRESENT:

COMMENTS: These pits were used to expand Mecklenburg County's previously approved septic area.



BEARINGS AND DISTANCES FOR LOTS ON CONTOUR ELEV. 570

LOT 142

1. N 26°48'W – 24.70'
2. N 89°08'W – 25.55'
3. N 81°35'W – 43.46'
4. N 39°03'W – 35.93'
5. N 23°30'W – 38.87'
6. N 13°15'E – 11.40'
7. N 88°00'E – 14.00'
8. N 73°58'E – 16.49'
9. N 36°37'W – 28.17'

LOT 143

10. N 54°22'W – 86.88'
11. N 37°53'W – 50.64'
12. N 0 °06'W – 20.28'
13. N 46°16'E – 48.00'
14. N 50°05'E – 45.09'
15. N 59°14'E – 92.47'
16. N 85°39'E – 28.04'

LOT 144

17. N 22°32'E – 30.80'
18. N 24°21'E – 35.69'
19. N 39°54'E – 54.20'
20. N 39°01'E – 64.43'
21. N 56°17'E – 28.90'

FROM LOT 144 TO LOT 146

22. N 56°07'E – 87.45'
23. S 79°22'E – 28.44'
24. N 50°54'E – 27.49'
25. N 9°34'E – 12.95'
26. S 67°12'W – 23.58'

27. N 49°47'W – 15.64'
28. N 84°43'W – 41.39'
29. N 68°36'W – 44.32'
30. N 67°06'W – 68.10'
31. N 38°18'W – 50.17'
32. N 4°06'W – 42.66'
33. S 11°00'W – 43.31'
34. S 61°29'W – 15.26'
35. S 0°07'W – 24.18'
36. S 43°17'W – 77.60'

LOT 146

37. S 44°02'W – 57.98'
38. S 86°47'W – 21.47'
39. S 25°20'W – 18.03'
40. S 79°35'W – 25.63'
41. S 18°25'W – 18.44'
42. S 53°10'W – 39.21'
43. S 82°39'W – 54.90'

LOT 147

44. S 74°55'W – 21.22'
45. S 43°35'W – 22.02'
46. S 84°03'W – 57.01'
47. N 65°01'W – 30.25'
48. N 65°56'W – 19.80'
49. N 25°01'W – 28.07'
50. N 9°29'W – 80.61'
51. N 0°36'E – 40.86'
52. N 48°20'W – 32.60'

NOTE: DUKE POWER COMPANY TO CRESCENT LAND & TIMBER CORP. DEED BOOK 3146, PAGE 165. DATED M[illegible] 1969.

BUILDING SETBACK LINES ARE 30 FEET FROM ROAD RIGHT OF WAY LIMIT, 50 FEET FROM CONTOUR ELEV. 570 U.S.G.S. SEA LEVEL DATUM, AND 10 FEET FROM SIDE LOT LINE.

ALL STREET CORNER RADII ARE 20 FEET. PROPERTY LINE DISTANCES ARE COMPUTED TO POINT OF INTERSECTION AT STREET CORNERS.

STATE OF NORTH CAROLINA
COUNTY OF MECKLENBURG

The foregoing certificate(s) of Frankie Ball Gaston a Notary Public of ~~said~~ County and State ~~aforesaid~~ is/are certified to be correct. This 1st day of March 1976.

Recorded in Book ____ Page ____ and Verified.
CHARLES E. CROMPER, Register of Deeds
By Sara B. Johnson Deputy

APPROVED IN ACCORDANCE WITH THE ENGINEERING REQUIREMENTS OF THE SUBDIVISION ORDINANCE OF MECKLENBURG COUNTY, NORTH CAROLINA.
MECKLENBURG COUNTY ENGINEERING DEPARTMENT
E K Harmon (COUNTY ENGINEER) 11 Feb 76 (DATE)

NORTH CAROLINA
MECKLENBURG COUNTY

The undersigned surveyor, [illegible] swears, declares and says that the plat upon which the certificate(s) appears was prepared, to my/our/his knowledge and belief, and/or from [illegible] with actual survey made by me/us on the 23rd day of January, 1976, with a maximum linear error of closure of [illegible] and a maximum field error of angular closure of [illegible] per angle.

[illegible] Surveyor

STATE OF NORTH CAROLINA
COUNTY

Frankie Ball, a Notary Public of Gaston County, North Carolina, do certify that Albert M. Lively, the maker, personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and Notarial Seal this 23rd day of January A.D. 76.

Frankie Ball Notary Public

My Commission Expires Sept. 6, 1979

APPROVED IN ACCORDANCE WITH THE PROVISIONS OF THE SUBDIVISION ORDINANCE OF MECKLENBURG COUNTY, NORTH CAROLINA.
CHARLOTTE-MECKLENBURG PLANNING COMMISSION
Fred E. Bryant ACTING SECRETARY Feb. 18, 1976 DATE

PRESENTED FOR REGISTRATION
1976 Mar 1 AM 10 57
REGISTERED IN THE OFFICE OF THE REGISTER OF DEEDS MECKLENBURG CO. N.C.

GEOGRAPHIC LOCATION
SCALE 1" = 2 MILES

CRESCENT LAND & TIMBER CORP.
LAKE WYLIE
MAP OF
RECREATION LOTS
SECTION 43
LOTS 142-144, 146 & 147
STEELE CREEK TOWNSHIP
MECKLENBURG COUNTY, N. C.

519

SCALE: 1" = 100'
MISC. BOOK NO. 279
AUG. 6, 1975
DWG. NO. L.W. 43-K

0 100 200 300 400
SCALE IN FEET



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

Reference: Data Sheet for Lot 144 Lake Wylie Section 43; PID#21719147; 18016 Broken Woods Road; Mecklenburg County, NC

House Footprint: TBD; Buildable area located and shown on site plan. (124'x 68)
Building Setback: 30' Front, 10' Side, 50' Rear
Water Source: Private Well
Number of Bedrooms: 4/480
Proposed LTAR: 0.225 gpd/ft2; determined by Mecklenburg County
Suggested System Type: 25% Reduction at grade
Repair System Type: N/A; Repair Exempt. See attached plat.
Distribution: Gravity* see note below
Trench Bottom: 12"on the low side; 18" on the uphill side
Septic/ Pump tank size: 1000 ST, 1000 PT

Line	Design Length	Actual Length
Orange 1	110'	123'
White 2	110'	125'
Orange 3	110'	126'
Pink 4	115'	128'
Orange 5	45'	45'
Blue 6	45'	45'

Initial System: 533' 25% Reduction at grade
Repair System: N/A; Repair Exempt. See attached plat.

GWS Septic System Design Review

GWS File #: 8226B — Approved ☑ Disapproved ☐

Design Review: — ☑ ☐

Field Review: — ☑ ☐

*[illegible] are not considered "APPROVED" until both sections above are completed and indicate an APPROVED status.

Comments:
The purpose of this evaluation is to permit the property for a 4-bedroom residence.

- Mecklenburg County evaluated pits in the septic area and determined a 0.225 LTAR, with a trench bottom of 12" on the low side and 18" on the uphill side. MA&A evaluated additional pits to add some septic area to the bottom of the previously approved system area (O5 and B6).
- An additional 12" of cover should be brought in to give the system the required amount of cover. Class II or III soils should be used. Due to the slope in the area, erosion control measures (sod, seeding, netting, etc.) should be used over the system area.
- ***The system is being proposed as a gravity fed system. If the pluming stub out comes out of the house at too low of a grade to maintain the trench bottom, then an effluent pump will be needed to access the septic area.**
- **The total buildable area has been shown on the site plan. Exact house location and plans have not been determined.**
- The septic area has been located by a surveyor.

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30009660** GWS File #: **8226B** Tax Parcel #: **217-191-47**

- This IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be NO grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is **NOT** transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

I. This Improvement Permit Shall: Expire in Five (5) Years **Expiration Date (If Applicable):** 8/28/2023

Type of Installation: Residential - New System Lot Number: 0

Structure Type: HOUSE Size (ft^2): 5650 # Bedrooms: 4 Max. Occup.: 8

Building Foundation: Basement With Plumbing Water Supply: Private Well

II. Initial System Type: Accepted **System Classification:** IIIg

Initial System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.225	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1600	Total Trench Length (ft):	533
Maximum Trench Depth (in):	12	Depth of Media (in):	12	Distribution Device:	Drop Boxes		

III. Repair System Type: N/A **System Classification:**

Repair System Specifications:

Design Flow (gpd):	0	LTAR (gpd/ft^2):		Septic Tank Size (gal):	0	Pump Tank Size (gal):	0
Trench Width (ft):	0	Trench Spacing (ft):	0	Absorption Area (ft^2):	0	Total Trench Length (ft):	0
Maximum Trench Depth (in):	0	Depth of Media (in):	0	Distribution Device:	N/A		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until a Pre-Construction meeting has been completed by the Department.
- The septic system installer shall be a licensed septic contractor with the North Carolina Wastewater Contractor Inspector Certification Board.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Jacob Presley

Signature: JPR

Date Issued: 8/28/2018

Owner/Legal Agent: Adam Borman
Print Name

Signature: AB

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700 N. Tryon St, Suite 211 Charlotte, NC 28202
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IV. Permit Conditions/Comments:

- 100% repair area is not required for this property. However, the maximum feasible area shall be allocated for a repair area.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be located at least 100 ft. from all private wells (saprolite system).
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- Foundation drains shall be constructed not to discharge water onto or across any part of the septic system.
- The septic system shall be located at least 10 feet from any foundation drain.
- The locations of the septic system trenches have benn located by Pittman Surveying and shall be installed using these locations which are shown on the plot plan provided by Michael Athanas & Assoc.

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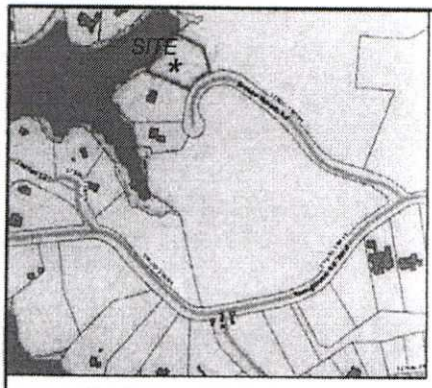
Authorized Agent: Jacob Presley

Signature: _____

Date Issued: 8/28/2018

Owner/Legal Agent: Adam Borman
Print Name

Signature: _____



VICINITY MAP (NOT TO SCALE)

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	166.75'	125.07'	122.16'	S 51°56'11" W

LINE	BEARING	DISTANCE
L1	N 22°32'00" E	30.80'
L2	N 24°21'00" E	35.69'
L3	S 39°54'00" W	54.20'
L4	N 39°01'00" E	64.28'
L5	S 56°30'57" W	28.89'

N
PITTMAN
Pb. 17 Pg. 519

Tax Map # 21732101
CATAWBA LANDS CONSERVANCY
Db. 27249 Pg. 57
Pb. 53 Pg. 31

Tax Map # 21719147
Lot 144, Lake Wylie Sect 43
Db. 24949 Pg. 863
Pb. 17 Pg. 519
0.99 Acres ± Crds.

#4 Rebar Found
Riprap
Water Line 7/30/18
LAKE WYLIE
S 64°38' E 148.35'
Tank 10' from pit and house.
#4 Rebar Found
S 16°30'16" E 112.84'
Buildable Area
1" Pipe Found
N 68°08'11" W 210.97'
#5 Rebar Found
Proposed Well
BROOKEN WOODS ROAD
60.00' R/W
1003.00' ± to Youngblood Rd.
1" Pipe Found @ 14.31'
#5 Rebar Found

Tax Map # 21719146
STEPHEN & MELISSA POLLAK
Lot 143, Lake Wylie Sect 43
Db. 30206 Pg. 618
Pb. 17 Pg. 519

X _____
Signature

LEGEND
—SS— *SANITARY SEWER LINE*
— OHU— *OVER HEAD UTILITY*
FOUND PROPERTY CORNER
SET PROPERTY CORNER
CALCULATED POINT

NORTH CAROLINA PROFESSIONAL SEAL L-3341 LAND SURVEYOR JAMES JETTER PITTMAN

SURVEYED 7/30/18 SCALE 1" = 50'

50 0 50 100

General Notes:
1. Measurements on this map are in feet and decimals thereof.
2. All set corners are #5 (5/8") Rebar unless otherwise noted.
3. This plat is subject to any Easements, Agreements, or Rights of Ways of Record prior to date of this plat, which was not visible at the time of our survey.
4. All Setbacks must be verified by the Zoning Department prior to construction. Surveyor assumes no liability for setback information as shown.

"I, JAMES JETTER PITTMAN, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN BOOK 24949, PAGE 863, ETC.) (OTHER); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN BOOK 17, PAGE 519; THAT THE RATIO OF

BOUNDARY AND PHYSICAL SURVEY FOR
MILLER HOMES LLC

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
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IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30009660** GWS File #: **8226B** Tax Parcel #: **217-191-47**

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Maximum Trench Depth (in):	12	Depth of Media (in):	12	Distribution Device:	Drop Boxes		

III. Repair System Type: N/A **System Classification:**

Repair System Specifications:

Design Flow (gpd):	0	LTAR (gpd/ft^2):		Septic Tank Size (gal):	0	Pump Tank Size (gal):	0
Trench Width (ft):	0	Trench Spacing (ft):	0	Absorption Area (ft^2):	0	Total Trench Length (ft):	0
Maximum Trench Depth (in):	0	Depth of Media (in):	0	Distribution Device:	N/A		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

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- The septic system installer shall be a licensed septic contractor with the North Carolina Wastewater Contractor Inspector Certification Board.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Jacob Presley Owner/Legal Agent: _____
Print Name

Signature: _____ Signature: _____

Date Issued: 8/28/2018

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Authorized Agent: Jacob Presley

Signature: _____

Date Issued: 8/28/2018

Owner/Legal Agent: _____
Print Name

Signature: _____