ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625 | PERMIT # AP 32551

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

PIN # 4636-97-8797

APPLICANT/OWNER: Zegin Brayn | APPLICANT ADDRESS: 159 Wood Duck Lp Mooresville, NC 28117

SITE ADDRESS: 159 Wood Duck Lp Mooresville, NC 28117 | PHONE: 607738-8182 | ALT. PHONE

SITE DIRECTIONS: Brawley School Rd TL Canvasback TL woodduck Lp lot on left | SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Lake Side Farm | SECTION: | LOT # 11 | LOT AREA: .78 Acre | DESIGN FLOW: 480 gpd | L.T.A.R. .275

Septic Tank Exist (1000) (gal)	STB	Date	☐ New System ☐ Repair ☒ Expansion System Type: I II III (IV) V VI		☒ Residence	No. Bedrooms 4	Water Supply
Pump Tank Exist (1000) (gal)	PT	Date	System Description: LP - 25% Reduction to exist LPP Bed		☐ Business	No. Persons 8	☐ Private
Pump Make	Model	Serial #	Repair System Description: LPP PPBPS		☐ Other	No. Employees	☐ Public
# Nitrification Fields 1	# Lines 3 (+ Exist)	Linear Ft 180	Maintenance Agreement Required: ☒ YES ☐ NO		☐ Slab	☐ Crawl Space	☒ Community
Trench Width 36"	Trench Bottom Depth (Low side) max 36"	Gravel Depth N/A	☐ GRAVITY ☒ PRESSURE		☒ Basement w/plumbing	☐ Basement w/o plumbing	

Comments / Conditions: Design recommends using "EZflow" for new drainlines with distribution pipe running through plastic pipe in middle!

* I&D recommends installing Central Site Valve Box & piping new drainlines & existing drainlines to it.

INITIAL SITE SKETCH

See attached Site Plan & LPP Distribution Review (calculations) for Proposed Expansion

AS BUILT SKETCH

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

FLOOR PLANS

IMPROVEMENT PERMIT ONLY
DO NOT ISSUE BUILDING PERMIT!
FLOOR PLAN STILL NEEDED!

DRAINLINES + CVB CHECKED 4-6-2022 BCW

DRAINLINES INSTALLED AS SHOWN

Still need as of 4/8/22

- Alarm, audible & visible
- Box that is NEMA 4X rated, 12" above grade
- Bring pump tank riser 6" above grade
- Separate breakers for pump & alarm
- Maintenance contract
- more supply line to 5' off property line (only 3' on 4/8/22)
- Set floats w/ 10" drawdown - Set pressure

Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION

☐ IMPROVEMENT PERMIT with plat valid without expiration ☐ IMPROVEMENT PERMIT with site plan valid for 60 mos. ☐ AUTHORIZATION TO CONSTRUCT valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.

Owner / Applicant Signature: [signature] Date: 3/9/22 Installed by: ALTERNATIVE SEPTIC SERVICES

IMPROVEMENT PERMIT by: Maria Dotson Date: 3/9/22 OPERATION PERMIT by: Cy Lil Date: 4/19/22

AUTHORIZATION TO CONSTRUCT by: Cy Lil Date: 4/19/22 Existing System Inspected by: Date:

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

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625 | PERMIT # AP 325511

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

PIN # 4636-97-8797

APPLICANT/OWNER: Zegin Braun | APPLICANT ADDRESS: 159 Wood Duck Lp Mooresville, NC 28117

SITE ADDRESS: 159 Wood Duck Lp Mooresville, NC 28117 | PHONE: 607738-8182 | ALT. PHONE

SITE DIRECTIONS: Brawley School Rd TL Canvasback TL Woodduck Lp lot on left | SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Lake Side Farm | SECTION: | LOT # 11 | LOT AREA: .78 Acre | DESIGN FLOW: 480 gpd | L.T.A.R.: .275

Septic Tank: Exist (1000) (gal)	STB	Date	☐ New System ☐ Repair ☒ Expansion	System Type: I II III (IV) V VI	☒ Residence	No. Bedrooms 4	Water Supply: ☐ Private
Pump Tank: Exist (1000) (gal)	PT	Date	System Description: LP - 25% Reduction to exist LL/Grave		☐ Business	No. Persons 8	☐ Public
Pump Make	Model	Serial #	Repair System Description: LP PPBPS		☐ Other	No. Employees	☒ Community
# Nitrification Fields 1	# Lines 3 (+Exist)	Linear Ft 180'	Maintenance Agreement Required: ☒ YES ☐ NO		☐ Slab ☐ Crawl Space		
Trench Width 36"	Trench Bottom Depth (Low side) max 36"	Gravel Depth N/A	☐ GRAVITY ☒ PRESSURE		☒ Basement w/ plumbing	☐ Basement w/o plumbing	

Comments / Conditions: Design recommends using "EZflow" for new drainlines with distribution pipe running through plastic pipe in middle.

INITIAL SITE SKETCH

See attached Site Plan & LPP Distribution Review (Calculations) for Proposed Expansion

* I&D recommends installing Central Gate Valve Box & piping new drainlines & existing drainlines to it.

AS BUILT SKETCH

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

FLOOR PLANS

IMPROVEMENT PERMIT ONLY
DO NOT ISSUE BUILDING PERMIT!
FLOOR PLAN STILL NEEDED!

DRAINLINES & CVB CHECKED 11-6-2022 BCW

DRAINLINES INSTALLED AS SHOWN

Still need as of 4/8/22

- Alarm, audible & visible
- Box that is NEMA 4X rated, 12" above grade
- Bring pump tank riser 6" above grade
- Separate breakers for pump & alarm
- Maintenance contract
- more supply line to 5' off property line (only 3' on 4/8/22)
- Set floats w/ 10" drawdown - Set pressure

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☐ IMPROVEMENT PERMIT *with plat valid without expiration* ☒ IMPROVEMENT PERMIT *with site plan valid for 60 mos.* ☐ AUTHORIZATION TO CONSTRUCT *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: [signature] Date: 3/9/22 | Installed by: ALTERNATIVE SEPTIC SERVICES

IMPROVEMENT PERMIT by: Maria Dotson Date: 3/9/22 | OPERATION PERMIT by: Date:

AUTHORIZATION TO CONSTRUCT by: Date: | Existing System Inspected by: Date:

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

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625 | PERMIT # AP 325511

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

PIN # 4636-97-8797

APPLICANT/OWNER: Zegin Braun | APPLICANT ADDRESS: 159 Wood Duck Lp Mooresville, NC 28117

SITE ADDRESS: 159 Wood Duck Lp Mooresville, NC 28117 | PHONE: 607738-8182 | ALT. PHONE

SITE DIRECTIONS: Brawley School Rd TL Canvasback TL Woodduck Lp lot on left | SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Lake Side Farm | SECTION: | LOT # 11 | LOT AREA: .78 Acre | DESIGN FLOW: 480 gpd | L.T.A.R.: .275

Septic Tank Exist (1000) (gal) | STB | Date

Pump Tank Exist (1000) (gal) | PT | Date

Pump Make | Model | Serial #

Nitrification Fields 1 | # Lines 3 (+Exist) | Linear Ft 180'

Trench Width 36" | Trench Bottom Depth ~~(Low side)~~ max 36" | Gravel Depth N/A

☐ New System ☐ Repair ☒ Expansion | System Type: I II III (IV) V VI

System Description: ~~LPP~~ LPP - 25% Reduction + Exist LL Grave

Repair System Description: LPP PPBPS

Maintenance Agreement Required: ☒ YES ☐ NO

☐ GRAVITY ☒ PRESSURE

☒ Residence | No. Bedrooms 4

☐ Business | No. Persons 8

☐ Other | No. Employees

☐ Slab ☐ Crawl Space

☒ Basement w/plumbing ☐ Basement w/o plumbing

Water Supply

☐ Private

☐ Public

☒ Community

Comments / Conditions: Design recommends using "EZflow" for new drainlines with distribution pipe running through plastic pipe in middle.

* I&D recommends installing Central Gate Valve Box & piping new drainlines & existing drainlines to it.

INITIAL SITE SKETCH

See attached Site Plan & LPP Distribution Review (calculations) for Proposed Expansion.

AS BUILT SKETCH

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

IMPROVEMENT PERMIT ONLY
DO NOT ISSUE BUILDING PERMIT!
FLOOR PLAN STILL NEEDED!

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☐ **IMPROVEMENT PERMIT** *with plat valid without expiration;* ☒ **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* ☒ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: | Date: 3/9/22 | Installed by:

IMPROVEMENT PERMIT by: Maria Dotson | Date: 3/9/22 | OPERATION PERMIT by: | Date:

AUTHORIZATION TO CONSTRUCT by: See final copy | Date: | Existing System Inspected by: | Date:

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

Item	Date	Initials
Drain Lines Checked	4/6/22	BCW
Tanks Checked	N/A	
Pressure Manifold or Valve Box Checked	4/16/22	BCW
Pressure Head Set		
Electrical Checked		
Floats Set		
Alarm Checked		
Maintenance Contract Needed? Y / N		
Comments:		

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

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

Sheet ___ of ___
PROPERTY ID #: 4636978797
COUNTY: Iredell

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

OWNER: Zegin Braun — APPLICATION DATE: 2/7/22
ADDRESS: 159 Wood Duck Lp Mooresville, NC — DATE EVALUATED: 2/22/22
PROPOSED FACILITY: House — PROPOSED DESIGN FLOW (.1949): 480 gpd — PROPERTY SIZE: .78 Acre
LOCATION OF SITE: 159 Wood Duck Lp — PROPERTY RECORDED: Y
WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other
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	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	6%	0-5	Rd/Brw CL	wSBK	SS, SP,	SexP, FR			PS
		5-15	R Cm-	wSBK	SS, SP,	SexP, FR			.3
		15-40	RCL	w SBK	SS, SP,	SexP, FR			
		40-60	RCL	w SBK	SS, SP,	SexP, FR			
			w/few to many		SAP	Inclus			
2	5%	0-12	Rd Brw	SCL wSBK	SS, SP,	SexP, FR			PS
		12-36	R Cm-	wSBK	SS, SP,	SexP, FR			.275
		36-65	RCL	w SBK	SS, SP,	SexP, FR			
			w/few	SAP	Inclus				
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	LPGravel Conv + 25% Red	PPBPS
Site LTAR	.275	.275

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): ___
EVALUATED BY: Maria Dotson
OTHER(S) PRESENT: Paul Pennington, David Beame

COMMENTS: ___

Updated February 2014

call Paul Penninger for site visit 704.996.6330 RECEIVED FEB 0 9 2022

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM AP-325511 $500.00

Expansion MD

Application For: ( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
(X) Septic Improvement Permit (X) Authorization to Construct ( ) Existing System Inspection ( ) Septic System Repair

THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED. APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS. EXP for 3 or 4 BR

Page 2: *Site Plan Worksheet* form MUST accompany this application

The following optional attachments may also be submitted: ( ) Survey Plat, scaled no more than 1 inch = 60 feet
Place an (X) beside whichever is submitted if applicable (X) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information: **(PRINT CLEARLY)**

Applicant Name: Zegin Braun **Address:** 159 Wood Duck Loop, Mooresville, NC **Zip:** 28117

Applicant Email: zegin_braun@yahoo.com **Phone:** 607.738.8182 **Alt. Phone:**

Owner Name: same as above **Address:** **Zip:**

Owner Email: **Phone:** **Alt. Phone:**

Property Information:

Street Address: 159 Wood Duck Loop, Mooresville, NC 28117

Subdivision Name: Lakeside Farm **Section/Phase:** **Lot Number:** 11

Driving Directions: Brawley School Road, TL Canvasback, TL Wood Duck Loop, Lot on Left at 159 Wood Duck

Site Development Information: ***(check or complete ALL that apply***

( ) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
(X) Bedroom(s) Addition
( ) Repair to failing septic system ___ Tank ___ Drain lines Describe Problem:

Maximum Number of Bedrooms: 4
Maximum Number of Occupants: 8
( ) Swimming Pool
( ) Other Addition/Structure:

CHECK FOUNDATION TYPE
( ) Crawl Space Foundation
( ) Concrete Slab Foundation
(X) Basement with Plumbing
( ) Basement without Plumbing

Non-Residential Site Development: **Type of Business:**
Square Footage of Building: **Max. Number of Employees:** **Max. Number of Seats/Beds/Other:**

Water Supply: ( ) Replacement Well – Reason:
( ) Multi-connection Well **Number of Houses:** **Number of Persons:**

( ) New Well (X) Existing Well (X) Community Well ( ) City Water ( ) Other Public Water

Desired Septic System Type: ***(you may rank in orden of preference)*** **Year existing system installed:**
( ) No Preference ( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other:

Please answer the following to the best of your ability:

( ) Yes (X) No **Does the site contain any jurisdictional wetlands?**
( ) Yes (X) No **Is any non-domestic sewage (i.e. industrial) to be generated?**
( ) Yes (X) No **Is the site subject to approval by any other public agency?**

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.

Signature: 2.7.22

Property owner or owner's legal representative signature (SIGNATURE REQUIRED) **DATE**

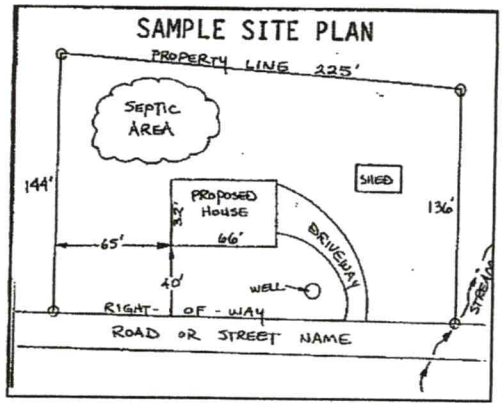
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

SITE PLAN WORKSHEET

SEE THE "SAMPLE SITE PLAN" BELOW. *INCOMPLETE SITE PLANS WILL BE RETURNED TO YOU FOR COMPLETION AND MAY RESULT IN A DELAY IN THE ISSUANCE OF YOUR SEPTIC SYSTEM OR WELL PERMIT!!!*

Place an (X) beside each item as you complete the site plan:

- (X) Property Line measurements are clearly identified
- (X) All proposed structures are indicated
- (X) Front and side setbacks from property line
- (X) Preferred driveway location EX
- ( ) Preferred well location NA
- (X) Preferred septic system location
- (X) North arrow, or other sufficient indicator of direction



Circle N/A on the following if appropriate:

Location of septic systems and wells within 100' of your property	N/A
Location of easements and rights of ways on your property	N/A
Location of any designated wetlands on the property	N/A

USE THIS SPACE TO DRAW YOUR SITE PLAN

Show: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site

See attached site plan.

Signature: _____

Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

2.7.22

DATE

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, Zegin Braun, am the legal owner(s) of the property located at 159 Wood Duck Loop, identified as

PIN (Parcel Identification Number) 4636978797.000, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) Paul Penninger/Penninger Soil Consulting Michael Richards, 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.

_____ 2.7.22
Signature of Owner(s) Date

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

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

07902

IREDELL COUNTY HEALTH DEPARTMENT

(SEPTIC TANK) IMPROVEMENTS PERMIT AND CERTIFICATE OF COMPLETION

(Ground Absorption Sewage Disposal System – G. S. Chapter 130-Article 13C)

OWNER OR CONTRACTOR Paul Gargano DATE May 23, '88 PERMIT NO. 4636-97-8797

PHONE: Business _____ Home _____

LOCATION 1100 TC 1179 (Canvasback) TC Wood Duck Loop ~ ⅛ mile on left S. R. No. _____

SUBDIVISION NAME Lakeside Farms LOT NO. 11 SECTION OR BLOCK NO. 1

House (✓) Mobile Home ( ) Business ( ) Other _____

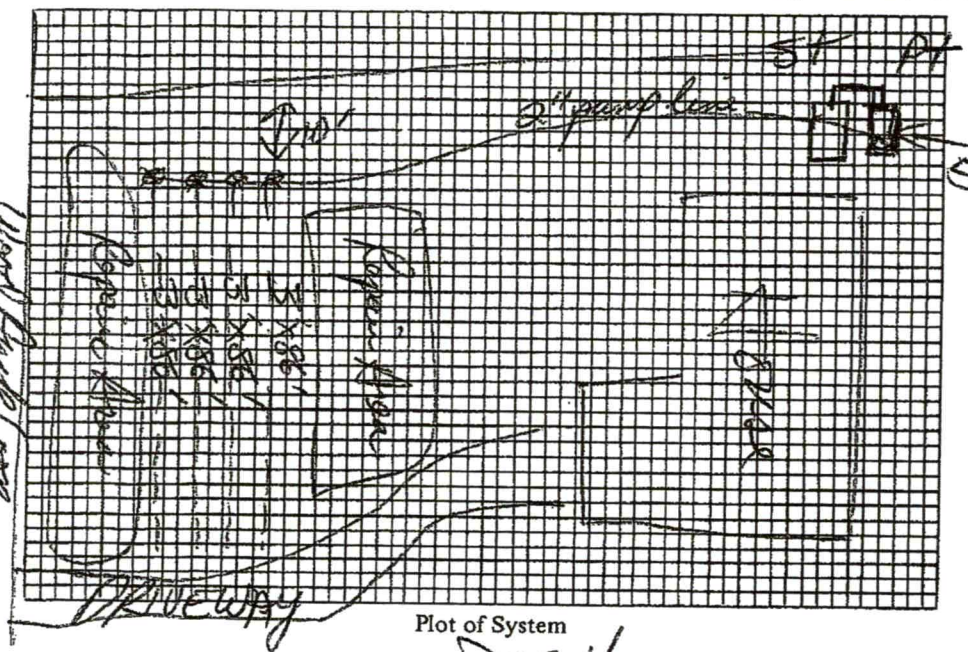
No. Bedrooms 3 No. Bathrooms 3

Garbage Disposal Unit Yes ( ) No (✓)
Auto. Dishwasher Yes (✓) No ( )
Auto. Wash. Machine Yes (✓) No ( )
Site ~~Suitable~~ PS Yes (✓) No ( )
Lot Area ~1/Ac

Character & Porosity of Soil clay
Percolation Rate 4m35
Topography 4 & 2o
Depth to Water Table 4ft
Rock or other impervious formations none obs.

1000 gal pump tank

___✓___ Basement with Plumbing _____ Basement without Plumbing _____ No Basement



Plot of System

Size of Tank 1000 Gals.

Nitrification Field:
No. of Lines 4
Sq. Ft. 1035 Linear Ft. 345
Depth of Stone in Lines 12"

Water Supply: Individual ( )
Public (✓)
LAKE

Installed by Carr Const.

I understand and agree to install septic tank system as specified on this Improvements Permit.

Signed: _____

IMPROVEMENTS PERMIT BY DRH

COMMENTS: Alarm on site but not mounted, it was tested and found to be working.

CERTIFICATE OF COMPLETION BY DR Hinson, RS DATE 5-23-88

EXISTING SYSTEM CHECKED BY: _____ DATE _____

CONSTRUCTION MUST COMPLY WITH ALL OTHER APPLICABLE STATE AND LOCAL REGULATIONS.

Permit is VOID if any unauthorized changes are made in installation of system and/or if any false information is supplied in making Improvements Permit.

Health Dept. Copy: White Inspection Dept. Copy: Yellow Sanitarian's Copy: Pink Owner's Copy: Gold

07902

IREDELL COUNTY HEALTH DEPARTMENT

(SEPTIC TANK) IMPROVEMENTS PERMIT AND CERTIFICATE OF COMPLETION

(Ground Absorption Sewage Disposal System – G. S. Chapter 130-Article 13C)

OWNER OR CONTRACTOR Paul Gargano DATE Feb 11, 88 PERMIT NO.

PHONE: Business Home

LOCATION 1100 Blk 1179 (Conover Rd) 1/2 mile on left TR Wood Duck Ln.

S. R. No.

SUBDIVISION NAME Lakeside Farms LOT NO. 11 SECTION OR BLOCK NO.

House (✓) Mobile Home ( ) Business ( ) Other

No. Bedrooms 3 No. Bathrooms 3

Garbage Disposal Unit Yes ( ) No (✓)

Auto. Dishwasher Yes (✓) No ( )

Auto. Wash. Machine Yes (✓) No ( )

Site ~~Suitable~~ PS, Yes (✓) No ( )

Lot Area 2 Inc.

Character & Porosity of Soil Area of Drainfield clay

Percolation Rate 2 & 35

Topography 4-8% 4H

Depth to Water Table

Rock or other impervious formations none obs.

1000 gal pump tank

✓ Basement with Plumbing / Basement without Plumbing No Basement

Size of Tank 1000 Gals.

Nitrification Field:

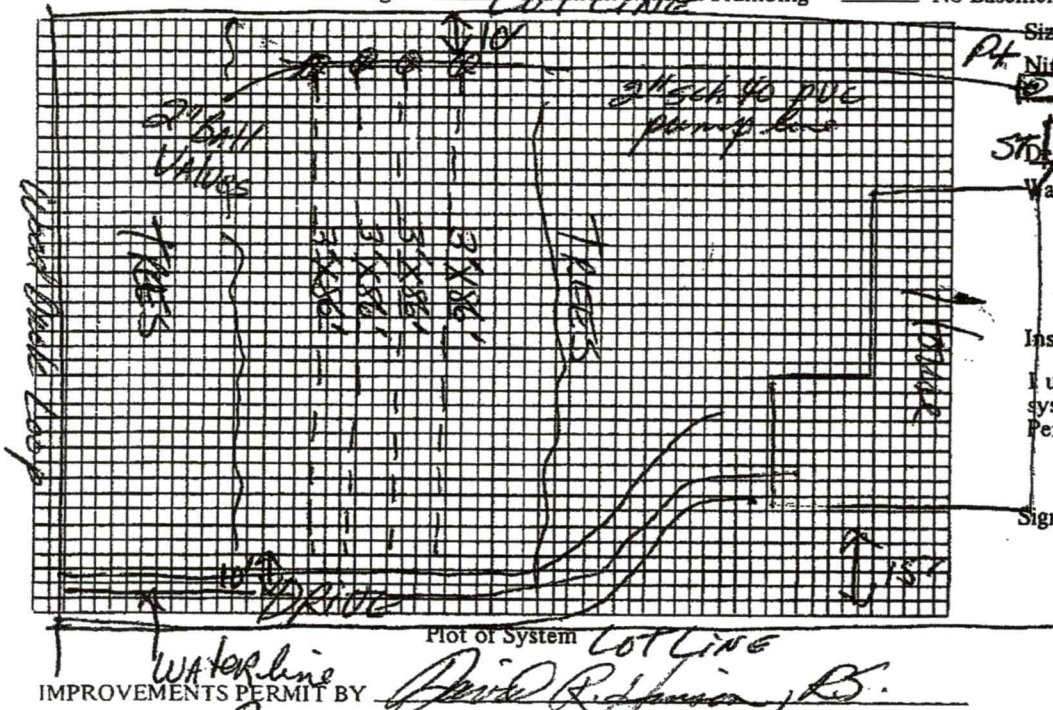
No. of Lines 4

Sq. Ft. 1035 Linear Ft. 345

Depth of Stone in Lines 12"

Water Supply: Individual ( )

Public (✓)



Installed by

I understand and agree to install septic tank system as specified on this Improvements Permit.

Signed: [signature]

* Need a pump capable of delivering 28 gal/min at ~26' TDH (a 1HP)

IMPROVEMENTS PERMIT BY David R. Lyons, RS.

COMMENTS: Pressure dose conventional type ditch by using a 2" pump line and tee off at the head of each ditch w/ a 2" Ball valve. Reduce to 1¼-1½" Sch 40 PVC with one 5/32" hole drilled every 5 feet (17 holes/ditch). Use 2' pressure head. Ditches to be on contour with 12-18" cover over stone.

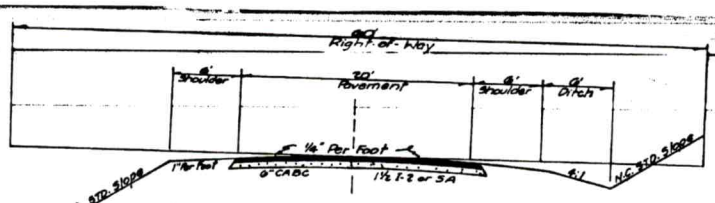
CERTIFICATE OF COMPLETION BY DATE

EXISTING SYSTEM CHECKED BY: DATE

CONSTRUCTION MUST COMPLY WITH ALL OTHER APPLICABLE STATE AND LOCAL REGULATIONS.

Permit is VOID if any unauthorized changes are made in installation of system and/or if any false information is supplied in making Improvements Permit.

Health Dept. Copy: White Inspection Dept. Copy: Yellow Sanitarian's Copy: Pink Owner's Copy: Gold



Minimum Typical Section

Notes:
1. Street Grades will not Exceed 7% Grade.
2. All Seeding to be in accordance with State Hwy. Comm. Std.
3. All Storm To Be Installed to Meet State Hwy. Comm. Secondary Road Standards.

"The undersigned surveyor, being duly sworn, deposes and says that the plat upon which this certificate appears was prepared in accordence with G. S. 47-30 as amended, is in all respects correct according to the best of his knowledge and belief, and was prepared from an actual survey made by him on the 26th day of Sept., 1978, with a maximum lineer error of closure of 1:10,000' and a maximum field error of angular closure of 7.5 Sec./Angle.

Donald Ray Allen
Reg. Land Surveyor

NORTH CAROLINA REGISTERED SEAL L-1131 LAND SURVEYOR DONALD RAY ALLEN

State of N. C.
County of Iredell

I, Patricia B. Allen, a Notary Public in and for the County of Iredell and State of North Carolina, do hereby certify that Donald Ray Allen, surveyor personally appeared before me this day and acknowledged the due execution of the foregoing certificate and upon his oath swore to the truth of the statements set forth therein.

Witness my hand and notariel seal this 26th day of Sept. 1978.

Patricia B. Allen
Notary Public

My commission expires 5-26-82

PATRICIA B. ALLEN NOTARY PUBLIC IREDELL COUNTY N.C.

PROVIDED THAT THE PLAT IS RECORDED WITHIN SIXTY (60) DAYS OF FINAL APPROVAL, IT IS APPROVED BY THE BOARD OF COMMISSIONERS

Chairman

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED SUBDIVISION ROAD CONSTRUCTION STANDARDS CERTIFICATION

APPROVED: J. W. Aldridge
DISTRICT ENGINEER

DATE 9-27-78

Sworn to and Subscribed Before me, the ___ day of ___ 1978 let this instrument with the certificate be recorded.

Clerk of Superior Court

Owners Certificate and Notarization

Know all men by these Present, that I (we) Horace Howard Neel & Celeste B. Neel hereby certify that I/We am(are) the owner(s) of the shown on this plat, that Horace Howard Neel & Celeste B. Neel hereby acknowledge this plat and allotment to be my(our) free act and do hereby dedicate to public use all streets, alleys, easements and other public areas shown on this plat. I (we) further certify that Donald Ray Allen (surveyor) surveyed and made this plat of my (our) direction, and that the entire subdivision is within the boundaries of a tract conveyed to me by a deed recorded in Deed Book: ___ Page: ___, Iredell County Registry.

Owners Signature

State of North Carolina-County of Iredell

I, Patricia B. Allen, a notary Public, do certify that Horace Howard Neel and his wife, Celeste B. Neel each personally appeared before me this day and acknowledged the due execution of the foregoing Plat. Witness my hand and official Seal, this 28th day of Dec., 1978. Patricia B. Allen Notary Public

My Commission Expires: 5-26-82

The foregoing certificate(s) of Patricia B. Allen is (are) certified to be correct. This instrument was presented for registration this day and hour and duly recorded in the office of the Register of Deeds of Iredell County, N.C. in Book: 16 Page 21.

This 16 day of Feb. A.D. 1979 at 3:20 o'clock P.M.

Register of Deeds By: Deputy Reg. of Deeds

Provided that the plat is recorded within sixty (60) days of final approval, it is approved by the Iredell County Planning Board. Oct 2, 1978 Date

Jerry A. Bumgarner (Chairman or Agent)

(SECTION #1)

PLAT OF LAKESIDE FARM

PROPERTY OF: HOWARD NEEL

DAVIDSON TWNSP.

IREDELL COUNTY, N.C.

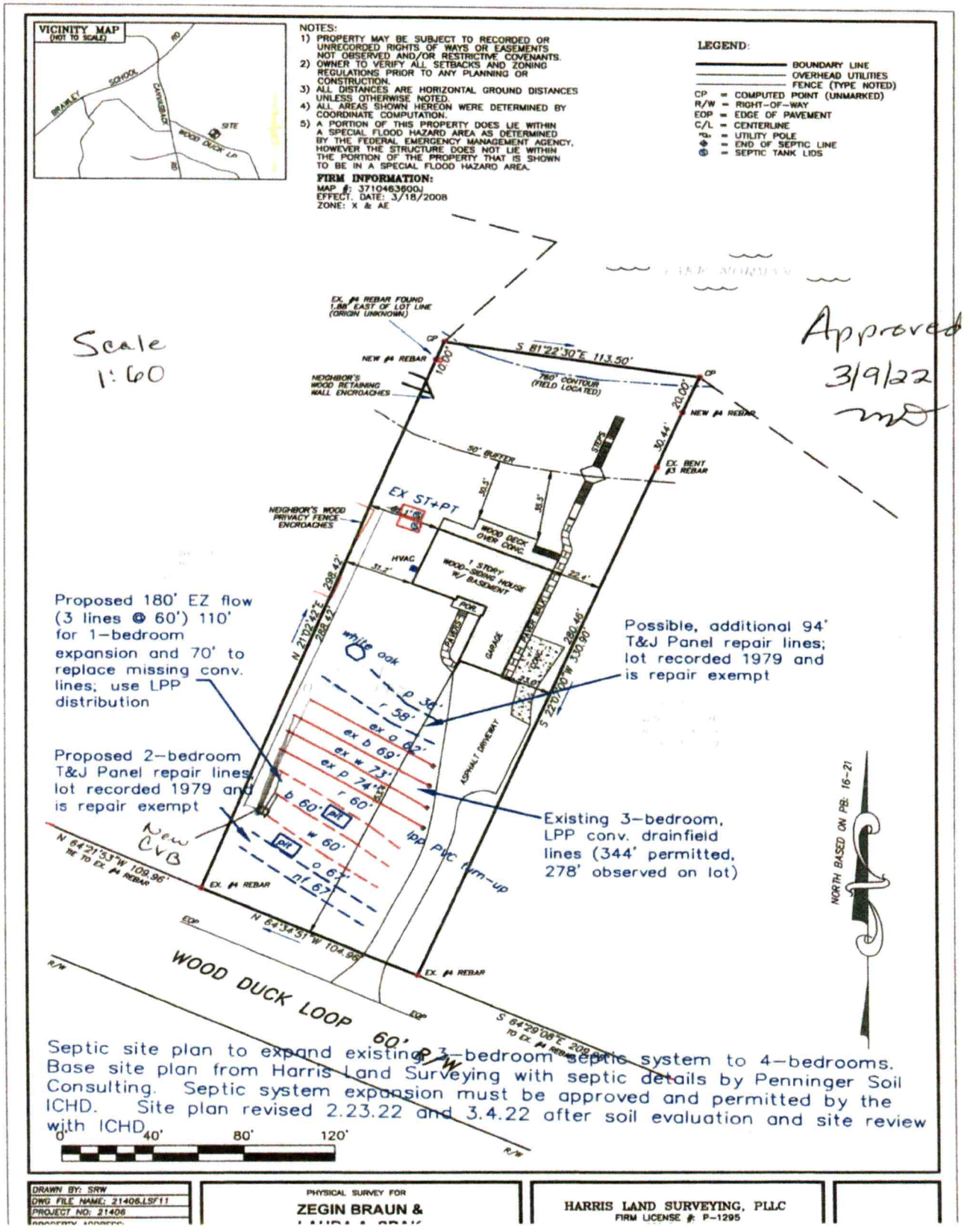
Scale: 1" = 100'

Date: Sept. 26, 1978

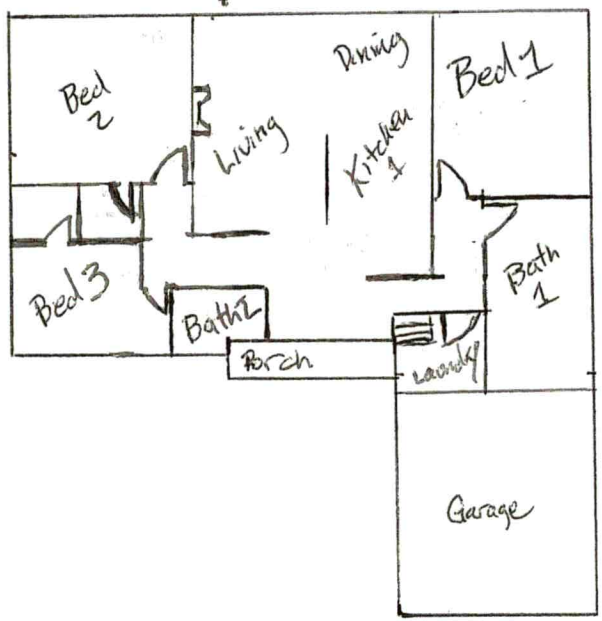
50 0 50 100
Graphic Scale

Don. Allen Surveyors
Rt. 6, Box 627-A
Mooresville N.C.
L-1131

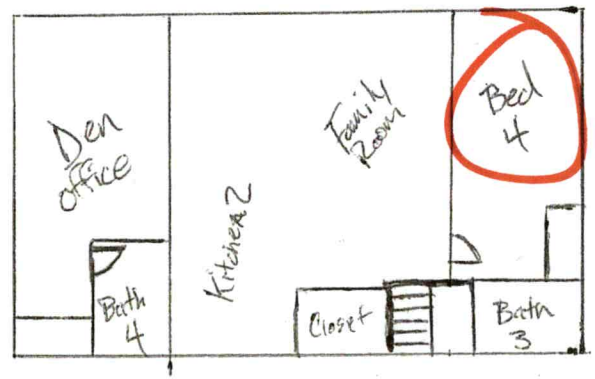
Notes:
1. Iron pins at all lot corners unless otherwise noted.
2. All Street intersections subject to a 20 ft. Radius
3. All lot lines are subject to a 10' Drainage & Utility Esmt.


VICINITY MAP
(NOT TO SCALE)
BRAMLEY
SCHOOL
CANYONLAKE
SITE
WOOD DUCK LP
NOTES:
1) PROPERTY MAY BE SUBJECT TO RECORDED OR UNRECORDED RIGHTS OF WAYS OR EASEMENTS NOT OBSERVED AND/OR RESTRICTIVE COVENANTS.
2) OWNER TO VERIFY ALL SETBACKS AND ZONING REGULATIONS PRIOR TO ANY PLANNING OR CONSTRUCTION.
3) ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES UNLESS OTHERWISE NOTED.
4) ALL AREAS SHOWN HEREON WERE DETERMINED BY COORDINATE COMPUTATION.
5) A PORTION OF THIS PROPERTY DOES LIE WITHIN A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, HOWEVER THE STRUCTURE DOES NOT LIE WITHIN THE PORTION OF THE PROPERTY THAT IS SHOWN TO BE IN A SPECIAL FLOOD HAZARD AREA.
FIRM INFORMATION:
MAP #: 3710463600J
EFFECT. DATE: 3/18/2008
ZONE: X & AE
LEGEND:
BOUNDARY LINE
OVERHEAD UTILITIES
FENCE (TYPE NOTED)
CP = COMPUTED POINT (UNMARKED)
R/W = RIGHT-OF-WAY
EOP = EDGE OF PAVEMENT
C/L = CENTERLINE
= UTILITY POLE
= END OF SEPTIC LINE
= SEPTIC TANK LIDS
Scale 1:60
Approved 3/9/22
EX. #4 REBAR FOUND 1.88' EAST OF LOT LINE (ORIGIN UNKNOWN)
NEW #4 REBAR
NEIGHBOR'S WOOD RETAINING WALL ENCROACHES
S 81°22'30"E 113.50'
780' CONTOUR (FIELD LOCATED)
10.00'
20.00'
30' BUFFER
30.44'
STEPS
EX. RENT #3 REBAR
EX ST+PT
NEIGHBOR'S WOOD PRIVACY FENCE ENCROACHES
WOOD DECK OVER CONC.
HVAC
1 STORY WOOD-SIDING HOUSE W/ BASEMENT
POR.
GARAGE
CONC.
N 21°02'42"E 208.43'
S 27°20'30"W 330.90'
white oak
p 34'
r 58'
ex o 62'
ex b 69'
ex w 73'
ex p 74'
r 60'
b 60'
pit
w 60'
o 67'
pit
n 67'
Proposed 180' EZ flow (3 lines @ 60') 110' for 1-bedroom expansion and 70' to replace missing conv. lines; use LPP distribution
Proposed 2-bedroom T&J Panel repair lines; lot recorded 1979 and is repair exempt
New CVB
Possible, additional 94' T&J Panel repair lines; lot recorded 1979 and is repair exempt
Existing 3-bedroom, LPP conv. drainfield lines (344' permitted, 278' observed on lot)
lpp PVC turn-up
ASPHALT DRIVEWAY
N 64°21'53"W 109.96' TIE TO EX. #4 REBAR
EX. #4 REBAR
N 64°34'51"W 104.96'
EX. #4 REBAR
EOP
R/W
WOOD DUCK LOOP
60' R/W
S 64°29'08"E 209.
TO EX. #4 REBAR
NORTH BASED ON PB: 16-21
Septic site plan to expand existing 3-bedroom septic system to 4-bedrooms. Base site plan from Harris Land Surveying with septic details by Penninger Soil Consulting. Septic system expansion must be approved and permitted by the ICHD. Site plan revised 2.23.22 and 3.4.22 after soil evaluation and site review with ICHD
0'
40'
80'
120'
DRAWN BY: SRW
DWG FILE NAME: 21406LSF11
PROJECT NO: 21406
PHYSICAL SURVEY FOR
ZEGIN BRAUN &
HARRIS LAND SURVEYING, PLLC
FIRM LICENSE #: P-1295

Main



Lower Level



159 Wood Duck Loop
Mooresville, NC 28117

4/19/22

4/19/22

Alternative Septic Services, LLC

This agreement provides that a trained and certified technician shall perform routine maintenance for a specified period of one year from the date of signed agreement. The treatment system shall be serviced twice annually and the following steps will be performed.

Check control panel for proper function.
Check alarm and test.
Check drainfield for wet spots.
Field flush drain field.

The owner/purchaser is solely responsible for keeping a maintenance program in place with a certified service provider. The owner must follow manufacturers instructions for proper use of the system.

This agreement does not cover the cost of additional service visits (if necessary) or the repair or replacement of component parts not covered under manufactures warranty. Service calls are billed at 65.00 per hour (2 hour minimum)

The cost of this agreement is 550.00 per year.

This agreement is for. Zegin Braun. 159 Wood Duck Lane. Mooresville This agreement is transferable to new home owners.

Accepted by :  4/19/22

Please return signed agreement to
Alternative Septic Services LLC
168 Highway 274 #155
Clover, SC 29710

Lakeside Farms
Lot #11

259 Wood Duck Loop LPP Distribution Review for Proposed EZFlow Expansion Based on Ex. Measured Ex. Line Lengths (rev. 3.4.22 per ICHD Comments)

	Hole Size (in)	Hole Spacing (ft)	*Holes per Line	Head Pressure (ft)	Flow per hole (gpm)	*Total flow line (gpm)
*Existing Conventional Line 1 (62")	5/32	5	12	2	0.41	4.92
*Existing Conventional Line 2 (69')	5/32	5	13	2	0.41	5.33
*Existing Conventional Line 3 (73')	5/32	5	14	2	0.41	5.74
*Existing Conventional Line 4 (74')	5/32	5	14	2	0.41	5.74
Proposed EZ Flow for missing length (70')	5/32	5	14	2	0.41	5.74
					**Total Flow per Conv. Lines	27.47
Proposed EZ Flow Expansion (55')	5/32	5	11	2	0.41	4.51
Proposed EZ Flow Expansion (55')	5/32	5	11	2	0.41	4.51
					**Total Flow per EZ Flow Lines	9.02
					Total System Flow	36.49

Approved
3/9/22

*Hole size and spacing from ICHD 1988 permit. Number of holes estimated from measured line lengths to turnups.

**Using estimated flow rates per ft. of measured existing conventional lines , the EZFlow expansion lines are dosed at ~24.4% of design flow (~1 bedroom)