ICHD–ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625 | PERMIT # 300747

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

PIN # 4638-96-5800

APPLICANT/OWNER: Bob Barton / CS+SC | APPLICANT ADDRESS: 188 Sagemore Rd. Mooresville, NC 28117

SITE ADDRESS: 188 Sagemore Rd. Mooresville, NC 28117 | PHONE: 704-453-1230 | ALT. PHONE 704-202-5791

SITE DIRECTIONS: Perth Rd North from Rt 150 → R on Sagemore → House on Right | SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: CL+T | SECTION: 14 | LOT # 13 | LOT AREA: 0.7 acres | DESIGN FLOW: 480 GPD | L.T.A.R.: —

Septic Tank	Existing: 1000 (gal)	STB	Existing	Date	Existing	☒ New System ☐ Repair ☐ Expansion	System Type: I (II) III IV V VI	☒ Residence	No. Bedrooms	4	Water Supply
Pump Tank	— (gal)	PT	—	Date	—	System Description:	Existing: 7.5'x75' Gravel Bed	☐ Business	No. Persons	8	☒ Private
Pump Make	—	Model	—	Serial #	—	Repair System Description:	LPP PPBPS (50% Reduction)	☐ Other	No. Employees		☐ Public
# Nitrification Fields	1	# Lines	Existing Gravel Bed	Linear Ft	7.5'x75'	Maintenance Agreement Required:	☐ YES ☒ NO	☒ Slab	☒ Crawl Space		☐ Community
Trench Width	Ex	Trench Bottom Depth(Low side)	Ex	Gravel Depth	Ex	☒ GRAVITY	☐ PRESSURE	☐ Basement w/plumbing		☐ Basement w/o plumbing	

Comments / Conditions: Recommend having septic tank pumped every 3-5 years. 30'x30' "Prop Conc." on plan to be concrete slab with no cutting of area nor modification for positive surface drainage.

This permit is for the RELOCATION of the REPAIR AREA. Existing bed + tank were not uncovered at time of site visit. Condition is unknown. Recommend conservative water use.

INITIAL SITE SKETCH

See attached plan from CS+SC Dated: 9/10/19
Revised: 9/24/19 (Site plan)

This permit is issued pursuant to Section 11 . (C) of S.L. 2018-114 using the signed and sealed LSS Evaluation by:

Adrian Pruett

LSS # 1314

AS BUILT SKETCH

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: Robert Barton Date: 10/30/19 Installed by: —

IMPROVEMENT PERMIT by: Tom Shuck Date: 9/26/19 OPERATION PERMIT by: Tom Shuck Date: 7/21/2020

AUTHORIZATION TO CONSTRUCT by: Tom Shuck Date: 9/26/19 Existing System Inspected by: — Date: —

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

VERIFICATION HAS BEEN PERFORMED.

4. THIS IS NOT AN ACTUAL FIELD SURVEY
5. THE PUPOSE OF THIS MAP IS TO SHOW PROPOSED ADDITION IN RELATION TO PROPERTY LINES ONLY.
6. PRELIMINARY– NOT FOR SALES, CONVEYANCES OR RECORDATION

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C2	145.32'	366.24'	22°44'04"	S 11°23'55" E	144.37'



LAKE NORMAN

S 09°31'00" E
56.6'

N 02°49'00" E
78.3'

N 34°35'00" W
27.5'

PIN#4638965800
ROBERT BARTON
PATRICIA WILDS
DB.2364 PG.1236
LOT#13 MB.13 PG.22

EX.
DRAIN FIELD

7.5 X 75' BED

EX.
SEPTIC TANK

NEIGHBORS
SEPTIC

PATIO

32.0'

25.0'

25.0'

EXISITNG
DWELLING

3.0'

3.0'

HALL
8.0'

18.0'

18.0'

26.0'

17.0'

5.0'

5.48'

5.01'

10.0'

5.02'

10.0'

COVERED PORCH

28.77'

30.0'

PROPOSED
ADDITION

50.0'

N 87°21'00" E
199.4'

N 8°18'00" E
208.0'

D-BOX

BED

ST

EX. 2"
WELL

CONC.
DRIVE

50.1'

50.5'

NEW
DRIVE

30.0'

PROP.
CONC.

30.0'

30.0'

30.0'

23.64'
B4

4 P 15'

3 B 48'

B1

2 Y 53'

58.29'

B2

1 0 62'

7 R 18'

B3

6 0 35'

5 Y 44'

C2

PIN#4638964965
EDWARD FAGGART
DB.14E PG.442

PIN#4638965616
JOHNSON FAMILY TRUST
DB.2426 PG.1801

SAGEMORE RD.
60' PUBLIC R/W

SPARKS
SURVEYING

OWNER INFORMATION

Owner:	Bob Barton and Trish Wilds
Address:	188 Sagemore Rd. Mooresville, NC 28117
Buyer:	Bob Barton
Phone:	704-453-1230
County:	Iredell
Location:	188 SAGEMORE RD., CL&T LOT 13 SECTION 14
Source of Wastewater Flow:	4 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	480
System Flow:	NA

25% GRAVITY DESIGN INFORMATION

Drainfield Design Flow (gpd):	480
Loading/Soil Application Rate (gpd/ft.^{2}):	Existing
Depth of Gravel in Trench:	Existing
Gravel Size:	Existing
Total Lateral Length For Existing:	7.5 x 75'
Total Lateral Length Required:	
Trench Depth:	Existing
Trench Width:	Existing
TOTAL AREA TRENCH BOTTOM:	Existing
Trench Spacing on Center:	
Repair Trench Spacing on Center:	8 ft.
Repair Trench Depth:	32 in.
Repair Trench Width:	24 in.
Existing Septic Tank Size:	1000 gal.
Estimated Supply Line Length:	Existing
Supply Line Diameter:	Existing
Supply Line Volume:	Existing
Dosing Volume:	NA
Supply Manifold:	Existing
Additional Comments:	Soil suitability was performed by Adrian L. Pruett LSS

188 SAGEMORE RD., CL&T LOT 13 SECTION 14
FIELD LAYOUT SPECIFICATIONS

LAYOUT FOR 4 BEDROOM RESIDENCE REPAIR RELOCATION — September 10, 2019

LINE #	FLAG COLOR	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM			NA		
HOUSE CRN		NA	NA		
P. TANK		NA	NA		
1	ORANGE	NA	NA	62	62
2	YELLOW	NA	NA	53	53
3	BLUE	NA	NA	48	48
4	PINK	NA	NA	15	15
5	YELLOW	NA	NA	44	44
6	***ORANGE***	***NA***	***NA***	***35***	***35***
7	***RED***	***NA***	***NA***	***18***	***18***
8	***EX. BED***	***NA***	***NA***	***7.5' x 75'***	***7.5 x 75'***
			Total	**275**	**275**

	LINE LENGTH	SYSTEM TYPE	SOIL LTAR GPD/FT^2	TRENCH SYSTEM	DISTRIBUTION
Ex. System	***7.5 x 75'***	***CONV.***		***GRAVEL***	***GRAVITY***
Repair	275	*MOD.*	0.300	PPBPS	LOW PRESSURE

Notes:
** TBM Is Not Required.
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags

Comments: The purpose of the this design is to relocate the existing repair area as shown on permit #17622 dated 12/28/93 and signed by Wesley Sparks R.S. for the existing 4 bedroom septic system.
The existing house is only 2 bedrooms (see floor plan) with the proposed attached addtion being 2 bedrooms bringing the total bedroom count to 4 bedrooms as permitted.
The repair is shown as an LP PPBPS, partially in the designated repair location as shown on permit 17624 with the remaining located at the front left corner.
A new well area is shown for future relocation if needed.

DOSING CALCULATIONS

Location	188 Sagemore Rd	
Subdivision	CL&T	
Section	14	
Lot No	13	
No. of Bedrooms	4	Existing
Design Flow	480	$^{gal}/_{day}$
LTAR	Existing	$^{gal}/_{ft^2\ day}$
Supply Line Length	Existing	ft.
Supply Line Volume	Existing	gal.
Existing System	7.5 x 75'	ft.
Gallons per Minute	NA	$^{gal}/_{min}$
Existing Septic Tank Capacity	1000	gal.
Minimum Septic Tank Capacity	1000	gal.
Lateral Line Volume		gal.

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

Sheet 1 of 1
PROP. ID #: 4638965800
COUNTY: IREDELL

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

OWNER: ROBERT BARTON
ADDRESS: 188 SAGEMORE LN MOORESVILLE 28117
PROPOSED FACILITY: RES PROPOSED DESIGN FLOW (.1949): 480
LOCATION OF SITE: 188 SAGEMORE LN MOORESVILLE 28117
WATER SUPPLY: X PRIVATE PUBLIC WELL SPRING OTHER:
EVAL. METHOD: X A. BORING PIT CUT **WASTEWATER TYPE** X SEWAGE INDUSTRIAL PROCESS MIXED

APPLICATION DATE:
DATE EVALUATED: 8/9/2019
PROPERTY SIZE: 0.72
PROPERTY RECORDED: YES

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/C OLOR	.1943 SOIL DEPTH	.1956 SAPROLITE CLASS	.1944 RESTR HORIZON	
1	LSS 10%	0-14	R C MMABK	FI S P SEXP	COM SAP 14-46"	48"	PS	N/A	0.3
		14-36	YR C MFABK	FI S P SEXP					
		36-46	YR CL WFSBK	FR SS SP SEXP					
		46-49	VAR L SAP M	FR SS SP SEXP					
2	LSS 10%	0-22	R C MMABK	FI S P SEXP	COM SAP 0-48"	48"	N/A	N/A	0.35
		22-48	YR C WFSBK	FR SS SP SEXP					
3	LSS 10%	0-17	BR CL WFSBK	FR SS SP SEXP	FEW SAP 17-40", COM SAP 40-48"	48"	N/A	N/A	0.3
		17-40	R C MFSBK	FI S P SEXP					
		40-48	YR CL WFSBK	FR SS SP SEXP					
4	LSS 11%	0-12	YR C WFSBK	FI S P SEXP	COM SAP 0-12", MANY SAP <50% 12-48"	48"	N/A	N/A	0.35
		12-48	RY CL/SCL WFSBK	FR SS SP SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
AVAILABLE SPACE (.1945)	EXISTING	PS
SYSTEM TYPE(S)	CONV. GRAV. BED	LP PPBPS
SITE LTAR		0.3
COMMENTS		

OTHER FACTORS (.1946): NONE
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: ADRIAN PRUETT
OTHER(S) PRESENT: NONE

LICENSED SOIL SCIENTIST ADRIAN L. PRUETT 1314 STATE OF NORTH CAROLINA

CAROLINA SOIL & SEPTIC CONSULTING, PLLC

P.O. BOX 1703, Mooresville, NC 28115
(704) 202-5791 adrianpruett@yahoo.com
NC Licensed Soil Scientist, SC Professional Soil Classifier,
Certified Septic System Operator, Licensed Septic Installer,
Certified Septic Inspector

September 3, 2019
Project Name: 19145

SESSION LAW 2018-114, SECTION 11.(c)/HOUSE BILL 374, SECTION 11.(c) AUTHORIZATION FORM

Carolina Soil & Septic Consulting has been contracted to evaluate soil, design and submit a septic system proposal to Iredell (county) on behalf of Bob Barton and Trish Wilds (owner/applicant) for the property located at 188 Sagemore Rd., Mooresville, NC 28117; PIN 4638965800 (address/PIN).

The Licensed Soil Scientist (LSS) Evaluation attached to this application is to be used to produce design and construction features for permitting in accordance with SL 2018-114 Section 11.(c).

By completing this form, signing and dating it you agree that the permit issued by Iredell (county) will fall under the above referenced law.

Owner/Owners Legal Representative: Patricia Wilds + Robert Barton
Mailing Address: 188 Sagemore Rd.
Telephone Number: 704-453-1230
Email Address: trishwilds@yahoo.com

Pat Wilds + Robert J Barton — 9-3-2019

Signature of Owner/Owners Legal Rep. — Date

Session Law

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

AP300747

Application For: ( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
(X) Septic Improvement Permit (X) Authorization to Construct (X) Existing System Inspection ( ) Septic System Repair $500

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.

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: BOB BARTON/CS&SC **Address:** 188 SAGEMORE RD MOORESVILLE **Zip:** 28117

Applicant Email: BOBBARTON60@GMAIL.COM **Phone:** 704-453-1230 **Alt. Phone:** 704-202-5791

Owner Name: ROBERT BARTON **Address:** 188 SAGEMORE RD MOORESVILLE **Zip:** 28117

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

Property Information:

Street Address: 188 Sagemore Rd., Mooresville, NC 28117

Subdivision Name: CL&T **Section/Phase:** 14 **Lot Number:** 13

Driving Directions: HWY 150 W, TR ON PERTH, CROSS BRIDGE AT LAKE NORMAN, TR ON SAGEMORE, LOT ON R BEFORE CUL-DE-SAC

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

CHECK FOUNDATION TYPE

( ) 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: _____

(X) Crawl Space Foundation
(X) Concrete Slab Foundation
( ) 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 ( ) Community Well ( ) City Water ( ) Other Public Water

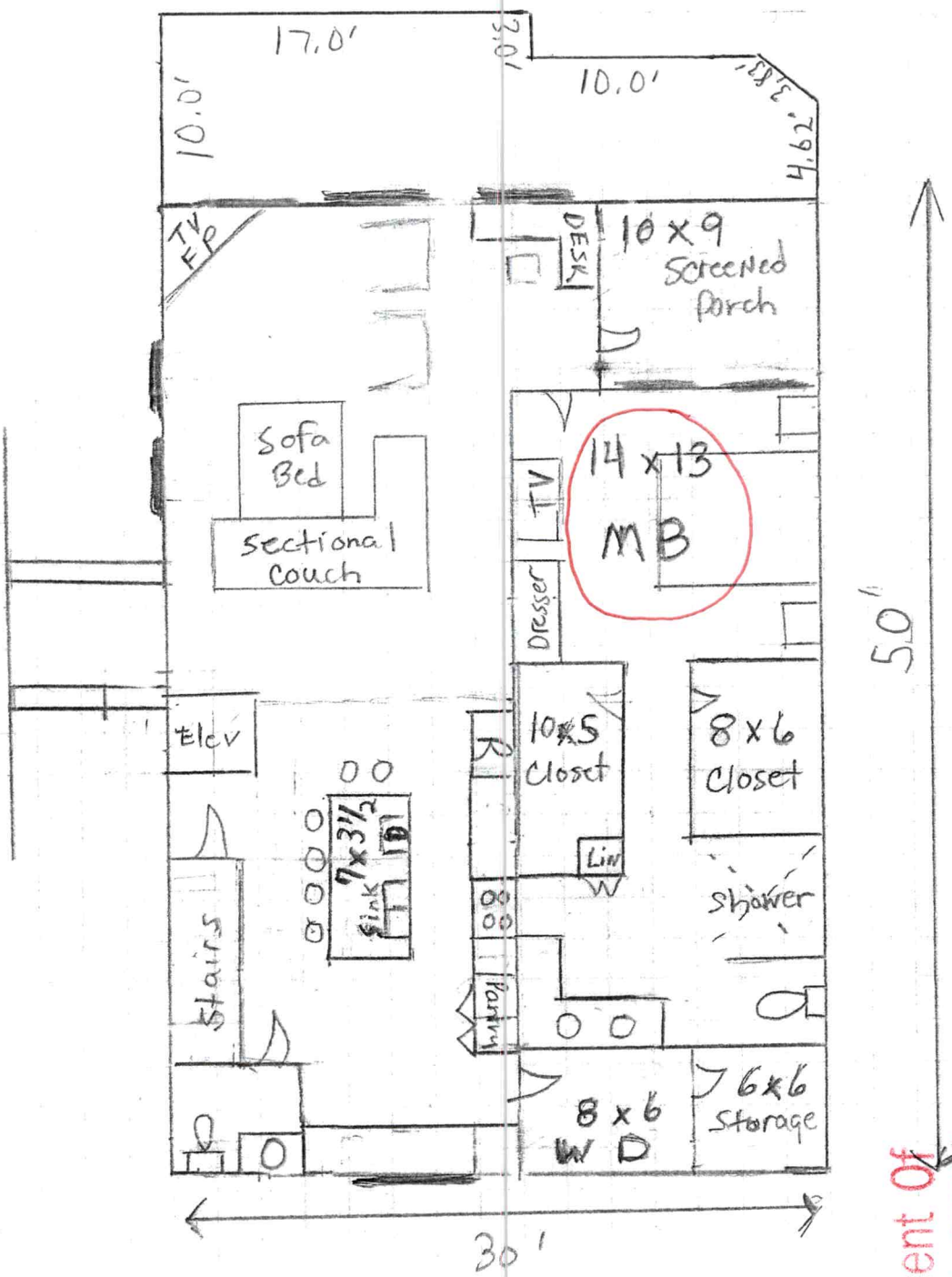
Desired Septic System Type: *(you may rank in order of preference)* Year existing system installed: _____
( ) No Preference ( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other: _____

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?

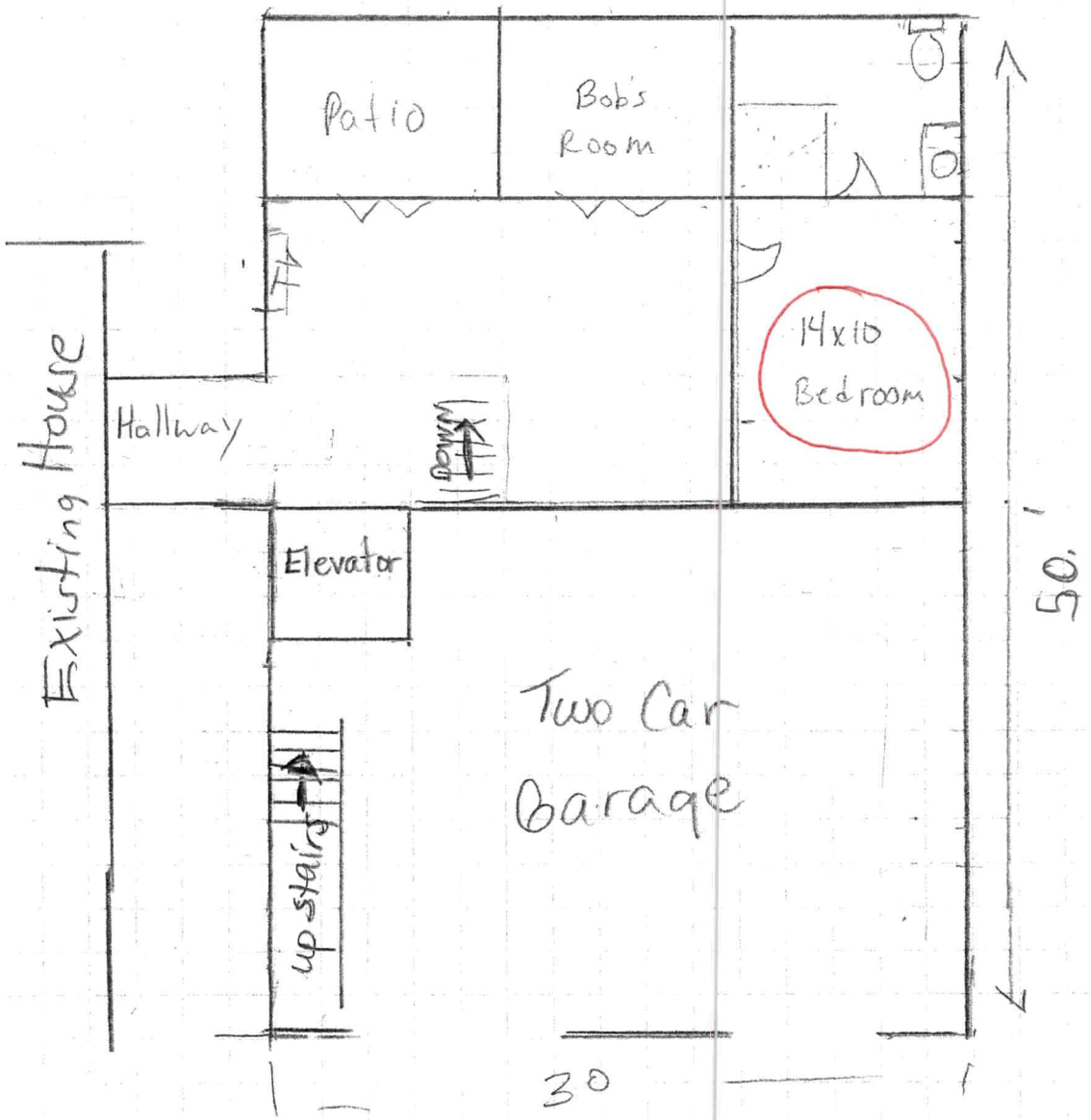
I have read this application and certify that the information provided herein is true, complete, and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible 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: _____ 9-16-19
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE



Upstairs
One
Bedroom
Apartment

Acknowledgement Of
Plans Submittal ONLY!
Robert Baxter Date 10/30/19
Tom Shaw Date 9/26/19



Downstairs Master Suite + Den

Garage

Acknowledgement Of Plans Submittal ONLY!

Robert Barton Date 10/30/19

Sam Shah Date 9/26/19

IREDELL COUNTY

IREDELL COUNTY
PO Box 788
349 North Center St.
Statesville, NC 28677

APPLICATION NUMBER
300747 Issue Date: 09/10/2019

Permit Type: ZONING RESIDENTIAL

Parcel Number	Street Address	Jurisdiction
4638965800.000	188 SAGEMORE RD	IREDELL COUNTY

Owner Information	Applicant Information
Name: BARTON ROBERT J+WILDS PATRICIA J	Name: CAROLINA SOIL SEPTIC CONSULTING, PLLC
Address:	Address: 162 WEST B ST KANNAPOLIS, NC 28081
Phone:	Phone: (704)202-5791

Use Requested	Zone Code
Addition	RR

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
0.72	35	50	15	15	WSIV-CA Catawba/Lake Norman	YES

Remarks
BEDROOM ADDITION

The applicant certifies that there are no deed restrictions, contractual agreements or governmental regulations of any kind that interfere with or prohibit the use of the property or the use for which this permit is requested. The applicant further acknowledges that enforcement of deed restrictions, plat conditions and other contractual agreements will not be undertaken by Iredell County and is the sole responsibility of the affected parties.

Date: 09/10/2019

Signature of Owner/Contractor

Permit Number	000223	TOTAL FEES:	$77.25