IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 229314

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

PIN # 4765814509

APPLICANT/OWNER: Porter Builders APPLICANT ADDRESS: 2143 Mooresville Hwy Statesville NC 28625

SITE ADDRESS: 130 Portman Lane Statesville NC 28625 PHONE: 704 902 3124 ALT. PHONE ~

SITE DIRECTIONS: Hwy 64 Past Cool Springs Right to Portman Lane, Lot on Right SAP CONTROLLED: ☐ YES ☒ NO

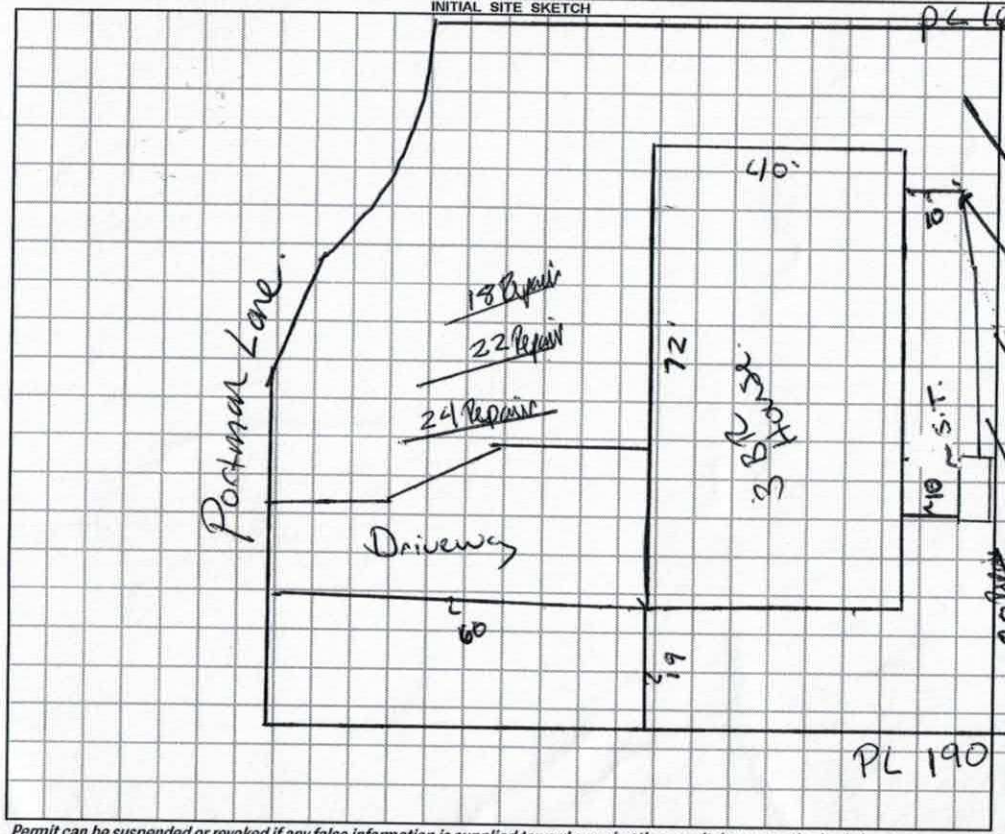
SUBDIVISION: Lone Pine Meadows. SECTION: 3 LOT # 19 LOT AREA: 0.462 DESIGN FLOW: 360. L.T.A.R.: .275

Septic Tank	1000 (gal)	STB	160	Date	10/5/17	☒ New System ☐ Repair ☐ Expansion	System Type: I II III IV V VI	☒ Residence	No. Bedrooms 3
Pump Tank	(gal)	PT		Date		System Description:	25% Reduction	☐ Business	No. Persons 6
Pump Make		Model		Serial #		Repair System Description:	50% Reduction	☐ Other	No. Employees
# Nitrification Fields	1	# Lines	4	Linear Ft	328	Maintenance Agreement Required:	☐ YES ☒ NO	☐ Slab	☒ Crawl Space
Trench Width	36	Trench Bottom Depth(Low side)	34	Gravel Depth	~	☒ GRAVITY	☐ PRESSURE	☐ Basement w/ plumbing	

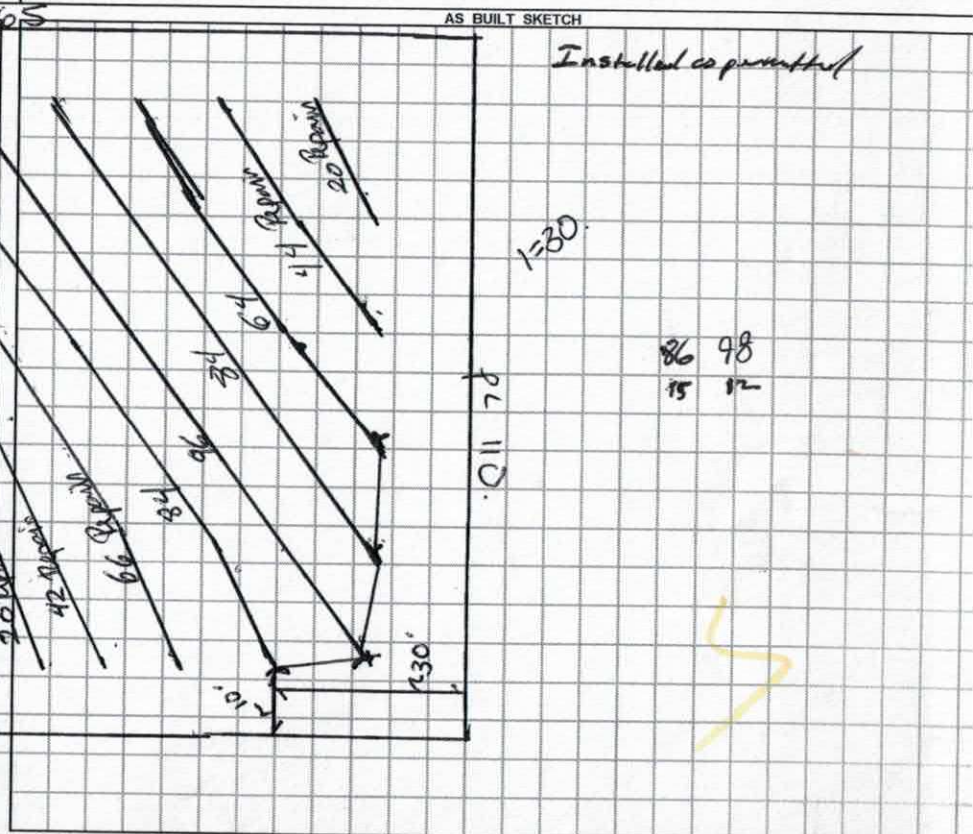
Water Supply: ☐ Private ☒ Public ☐ Community ☐ Basement w/o plumbing

Comments / Conditions: Permit Designed by IcHD & Ashley Rollins LSS - See attached documents for necessary specifications.
Install septic system on the contour of the land & utilize serial distribution.
Maintain 10 ft offset from house with any part of the septic system.

INITIAL SITE SKETCH



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 EXCAVATIO**

☐ **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 m*

Owner / Applicant Signature: Bruce Post Date: 8-21-17 Installed by: Carolina San Grading & Septic

IMPROVEMENT PERMIT by: Benjamin A. Bottoms Date: 8/16/2017 OPERATION PERMIT by: Benjamin A. Bottoms Date: 10/20/2017

AUTHORIZATION TO CONSTRUCT by: Benjamin A. Bottoms Date: 8/16/2017 Existing System Inspected by: Date:

SCALE
1" = 30'
paved PORTMAN L
DRIVE
N81°28'25"W
110.00'
S81°28'25"E
110.00'
N08°31'35"E
190.00'
N08°31'35"E
165.00'
20,111.50 Sq Ft
0.462 Ac.
19
35' FY
40'
72'
ST
1 B 26'
2 O 42'
3 Y 70'
4 P 86' (84')
5 R 110' (96')
6 B 90' (84')
7 Y 66' (64')
8 P 44'
9 R 20'
10 O 24'
11 P 22'
12 R 18'
L2
L3
C3
C4
C5
C9
P1
P2
P3
P5

ROLLANS ***Soil & Environmental Services, PA.***
P.O. Box 832 Mooresville, NC 28115 Phone: (704) 658-1723 Fax: (704) 278-0989

Ashley Rollans, NC Licensed Soil Scientist
Mobile: (704) 746-5046
Email: rollans.ashley@yahoo.com

Attached is a proposed design for an Accepted Septic System with gravity dist. for a 3 bedroom single family residence on Lot 19, Lone Pine Meadows Subdivision, Statesville (PIN 4765814509), Iredell County, North Carolina.

Contents: **Page**

Information for the Installer---------- 1

Design Information
Design Specifications---------- 2-3
Layout Specifications---------- 4

Site Plan/System Plan---------- 5

Calculations---------- 6

Profile Descriptions---------- 7-8

Expedited Review Process Checklist---------- 9

Zoning Permit & Receipt---------- 10-12

Application---------- 13-14

Green Sheet---------- 15

Agent Authorization Form---------- 16



8/8/17

August 8, 2017
Project #: 01-3420
Design By: Rollans Soil & Environmental Services, PA

INFORMATION FOR THE INSTALLER:

The permit should be read very carefully prior to bidding. The following are details that must be considered along with all other considerations.

- Tanks shall be approved by NC DHHS, and certification supplied by the manufacturer.
- Tanks shall be water tested prior to installation.
- The installer shall be responsible to the owner for placement of the tanks and to insure that final grades are returned to the original natural grade, with exception of added structural features.
- The supply trench shall be compacted to eliminate cavities left during initial fill placement.
- Installation of the system shall be during dry conditions in order to protect the soil structure.
- All fittings shall be pressure rated fittings.
- All joints shall be cleaned with PVC pipe cleaner and a heavy bodied glue applied to weld all joints.
- Where required by the county health department, post installation inspections by the designer must be scheduled 5 week days in advance.
- Trenches shall be carefully excavated so the bottom is within 2" from the highest to . the lowest points of elevation within the trench. If the bottom elevation needs adjusting after it has been trenched, it will be done by removing high points rather than filling low points. It is extremely important to insure that trenches are not over excavated during initial trenching. All fine grading within the trench will be hand done with a shovel. No loose material will be left in the trench
- All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the riser.
- All tanks shall be properly back filled and compacted to prevent slump at a later date.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral.
- No heavy equipment shall be used on the field during or after installation. The use of a small loader (i.e. Bobcat) or a trencher (i.e. Ditch Witch 2300/2310) may be used for installation.
- Elevations at pinflag locations should be checked by the installer prior to beginning trenches.
- Septic tank riser shall be a minimum of 6" above finished grade.
- System is specified as a gravity 25% reduction (Accepted) installation.
- Repair is specified as a PPBPS system with low pressure distribution.
- **Maintain proper fall from house to tank and tank to drainfield. Lot has 3% slope.**

GRAVITY ACCEPTED SYSTEM FOR WASTEWATER TREATMENT

Applicant:	Porter Builders
Address:	2143 Mocksville Highway Statesville, NC 28625
Phone:	704.746.5046
County:	Iredell
Location:	130 Portman Lane Statesville, NC 28625
Source of Wastewater Flow:	3 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	360
System Flow:	N/A

Design Specifications

Drainfield Size:	328	
Loading Rate (gpd/ft.^{2}):	0.275	
Depth of Gravel in Trench:	N/A	
Gravel Size:	N/A	
Max.Trench Depth:	36 in.	Repair Trench Bottom 36 in.
Trench Width:	36 in.	
Septic Tank Size:	1000	

Estimated Supply Line Length:	70
Supply Line Diameter:	4 in. SCH 40 PVC
Supply Line Volume:	45.71
Dosing Volume:	N/A
Supply Manifold:	N/A
Supply Manifold Length:	N/A
Supply Manifold Volume:	N/A
Recommended Float Controls:	N/A
Recommended Control Panel:	N/A
Pressure Head:	N/A
Friction Head:	N/A
Elevation Head:	N/A
Total Dynamic Head:	N/A
Threaded Union:	N/A
Gate Valves:	N/A
Check Valves:	N/A
Anti-Siphon Hole:	N/A
Additional Comments:	Soil suitability was performed by Rollans Soil & Environmental Services

130 Portman Lane

ACCEPTED SYSTEM

DESIGN FLOW (gpd):	360
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.275
TOTAL AREA TRENCH BOTTOM:	984
TOTAL LATERAL LENGTH:	328
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	327.2727273
SUPPLY LINE LENGTH:	70
TOTAL DYNAMIC HEAD:	N/A
MANIFOLD SIZE:	N/A
DOSING VOLUME:	N/A
PUMP TANK DRAW DOWN*:	N/A
SEPTIC TANK SIZE:	1000

Layout Specifications - Lone Pine Meadows Lot 19

Project #: 01-3420

LAYOUT FOR 3 BEDROOM HOME

August 8, 2017

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM							
INSTR. 1							
1	BLUE					26	26 20
2	ORANGE					42	42 42
3	YELLOW					70	70 66
4	***PINK***					***86***	***84*** 88
5	***RED***					***110***	***96*** 112
6	***BLUE***					***90***	***84***
7	***YELLOW***					***66***	***64***
8	PINK					44	44
9	RED					20	20
10	ORANGE					24	24
11	PINK					22	22
12	RED					18	18
					Total	618	594

Shortened Lines SAR

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
**** System***	***328***	***0.275***	***ACCEPT.***	***0.275-0.3***	***25% RED***	***GRAVITY***
Repair	266	0.250	MOD. CONV.	0.25-0.275	PPBPS	LOW PRESSURE

Notes: **All measures in feet

**Nitrification lines are demonstrated on contour via colored pin flags

****HOUSES STAKED BY LICENSED SURVEYOR.**

CALCULATIONS

Location 130 Portman Lane
Statesville, NC 28625
Project Number 01-3420

Lot No: 19 Lone Pine Meadows

No. of Bedrooms 3

Design Flow 360 $^{gal}/_{day}$

LTAR 0.275 $^{gal}/_{ft^2\ day}$

PPBPS? (YES OR NO) NO

Supply Line Length 70 ft.

Supply Line Volume 45.71 gal.

Required Feet of Line 327.2727 ft.
Amount of Line from Layout 328 ft.

Gallons per Minute N/A $^{gal}/_{min}$

Required Septic Tank Capacity 1000 gal.
Septic Tank Size 1000 gal.

Panel Volume N/A gal.
# of Panels N/A
Dosing Volume N/A gal.

Tank Draw Down N/A

Pump Run Time

Elevation Head N/A ft.
Pressure Head N/A ft.
Friction Factor N/A ft./100 ft. *(From the interpolater.)*
Friction Head N/A ft.

Total Dynamic Head (+15%) N/A ft.

FRICTION FACTOR
INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
	-0.88
25	1.27
	-1.28
30	1.78
	-1.76
35	2.37
	-2.25
40	3.03
43.07	3.48
45	3.77
48.14	4.28
50	4.58
57.11	5.89
60	6.42

Sheet 1 of 1
PROPERTY ID #: 4765 84
COUNTY: Iredell

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

OWNER: Bruce Porter
ADDRESS: 2143 Mocksville Hwy Statesville NC 28625
PROPOSED FACILITY: 3BR
PROPOSED DESIGN FLOW (.1949): 360gpd
LOCATION OF SITE: Lone Pine Meadows Lot 19
APPLICATION DATE 3/9/17
DATE EVALUATED: 7/25/17
PROPERTY SIZE: .462
PROPERTY RECORDED: YES

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	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	3% L /	0-8"	BCL wk med	sbk fr sss p slp	few to common saprolite	58"			.275 .3
		8-39"	BRC wk med sbk	sbk fr sss p slp					
		39-58"	BRCL/CL wk med	sbk fr sss p slp					
2	3% L /	0-10	RCL wk med	sbk fr sss p slp	few to common saprolite	60"			.275 .3
		10-37	BRC wk med	sbk/abk fr sss p slp					
		37-60'	BRCL/CL wk med	sbk fr sss p slp					
3	3%	0-7	BCL wk med	sbk fr sss p slp	few to common saprolite	60"			.275 .3
		7-38	BRC wk med	sbk/abk fr sss p slp					
		38-60	BR CL/C wk med	sbk fr sss p slp					
4	3%	0-2	compacted plow layer BCL firm		few yellow brown mottles few saprolite inclusions many saprolite inclusions	59"			.25 .275
		2-27	BRC med ~~sbk~~ abk	fr sss p slp					
		27-47	R/C med abk	fr sss p slp					
		47-59	R/CL wk sbk	fr sss p slp					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	YES/PS	YES/PS
System Type(s)	60% 25% Red	LPP 50% Red
Site LTAR	.275	.25

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: A. Polk
OTHER(S) PRESENT: Lisk, K. Neil

COMMENTS:

22934
Pd $350
8/9/17

IREDELL COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
PAGE 1: *APPLICATION FORM*

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

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:

Applicant Name: Porter Builders **Address:** 2143 Mocksville Hwy Statesville NC 28625 **Phone:** 7049023124

Owner Name: Porter Builders **Address:** 2143 Mocksville Hwy Statesville NC 28625 **Phone:** 7049023124

Property Information: Pin# 4765814509

Street Address: 130 Portman Lane, Statesville, NC 28625

Subdivision Name: Lone Pine Meadows **Section/Phase:** 3 **Lot Number:** 19

Driving Directions: Highway 64 EAST PAST COOL SPRINGS V.F.D. Turn Right Lone Pine Rd. TURN Right Portman Lane, Lot On Right BY CUL-DE-SAC @ BOX # 130.

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

(X) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
( ) Bedroom(s) Addition

Maximum Number of Bedrooms: 3
Maximum Number of Occupants: 6
( ) Swimming Pool
( ) Other Addition/Structure:

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

Non-Residential Site Development:
Type of Business:
Square Footage of Building:
Maximum Number of Employee:
Maximum Number of Seats/Beds/Other:

Water Supply:

( ) New Well ( ) Existing Well ( ) Community Well (X) 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 (X) Other: Accepted

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: Steven A Porter 8/8/17
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) **DATE**

IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

DOCUMENTATION TO AUTHORIZE AN OWNER'S LEGAL REPRESENTATIVE

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.

I, Porter Builders / Bruce Porter, am the legal owner(s) of the property located at 130 Portman Lane Statesville NC 28625, identified as PIN (Parcel Identification Number) 4765814509, located in Iredell County, North Carolina. Lake Pine Meadows LOT 19

I do hereby authorize (**print legal representative/company name**) Samuel Ashley Rollans, Rollans Soil Environmental Services, 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.

Bruce Porter	8-9-17	Luke Porter	8-9-17
Signature of Owner(s)	Date	Signature of Witness	Date

Please return this signed form to the appropriate office:

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

IREDELL COUNTY HEALTH DEPARTMENT

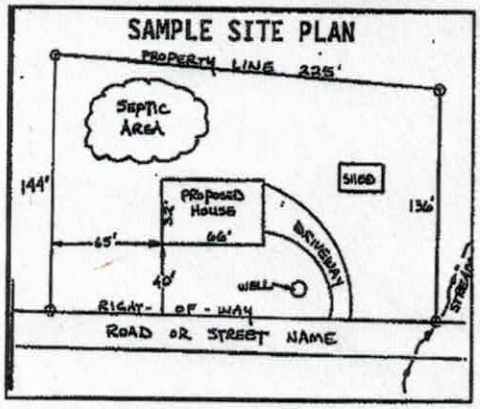
ENVIRONMENTAL HEALTH DIVISION

PAGE 2: *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 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 and well location**
- (X) **Area you prefer your septic system to be placed**
- (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 Drawing

Signature: Samuel R Tabor

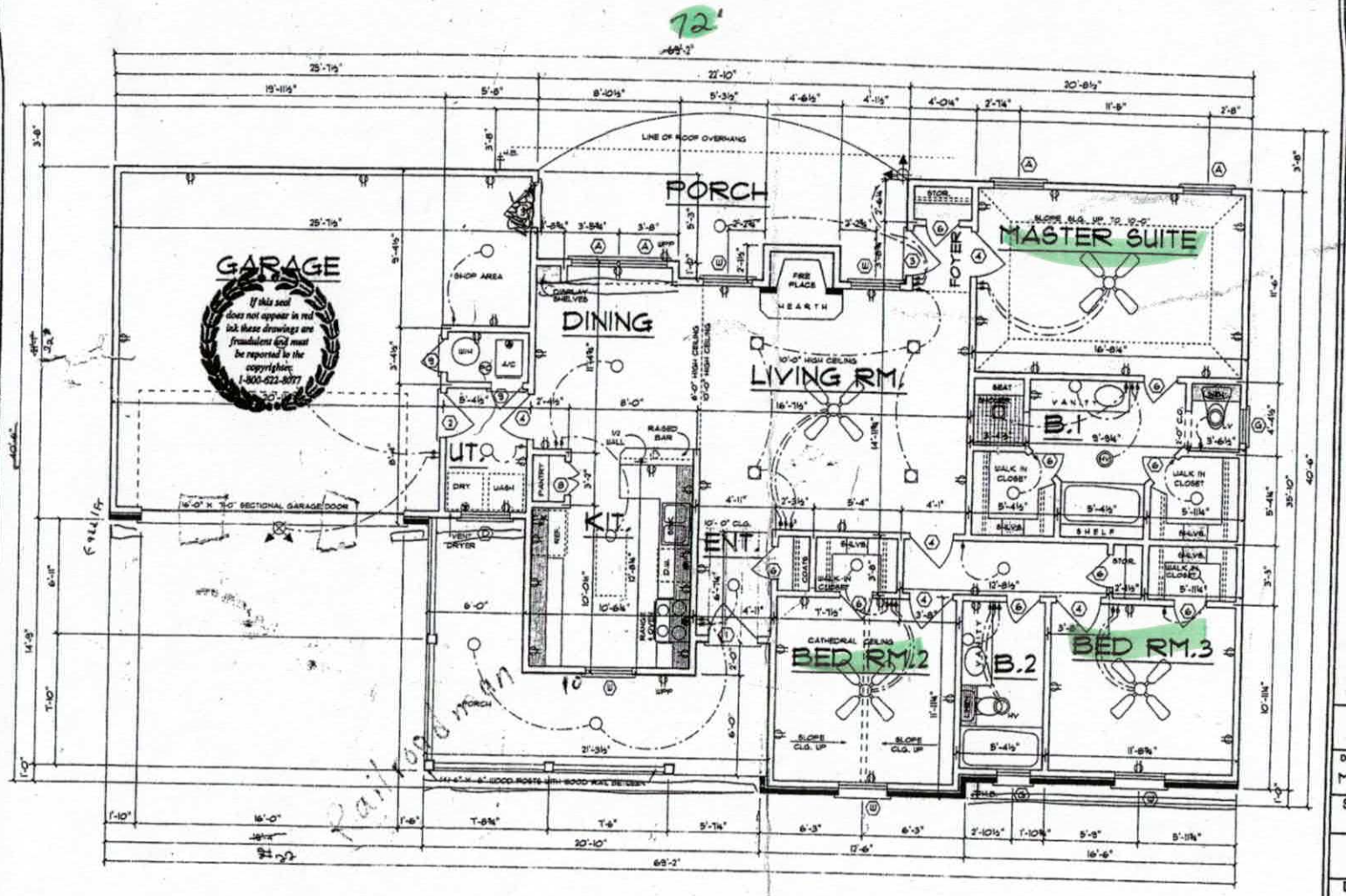
Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

8/8/17

DATE

130 Portman Lane Lot 19 Bruce Porter

72'



FLOOR PLAN

SCALE : 1/4" = 1'-0"

LIVING	1394 SQ. FT.
GARAGE	455 SQ. FT.
PORCHES	375 SQ. FT.
TOTAL SLAB	2366 SQ. FT.

reversed

RONALD K. DICK DESIGNER
6301 Randol Mill Rd.
Fort Worth, Texas 76112
(817) 451-3131
www.creativehomeplans.com

DATE: 04-30-1998

DRAWN BY	CHECKED BY
MITCH	DALE

STOCK PLAN # 1394-9

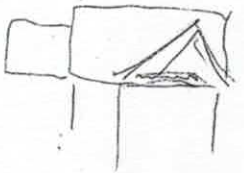
REVISED BY

DATE REVISED

CUSTOMER NAME

SHEET 3 OF 8

PLAN NUMBER 1394-9



Acknowledgement Of Plans Submittal ONLY!

Benjamin A Butler Date 8/15/2017

Date

IREDELL COUNTY

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

APPLICATION NUMBER
229314
Issue Date: 08/08/2017

ZONING PERMIT

Residential

Parcel Number	Street Address	Jurisdiction
4765814509.000	130 PORTMAN LANE, STATESVILLE, NC 28625	

Owner Information	Applicant Information
Owner: WCU INC	Applicant: PORTER BUILDERS
Address: PO BOX 64 STEINHATCHEE, FL 32359	Address: 2143 MOCKSVILLE HWY STATESVILLE, NC 28625
Phone: 352-672-3132	Phone: 704-878-9314

Use Requested	Zone Code
SFD	R20

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
	35.00	35.00	15.00	15.00	NOT	X

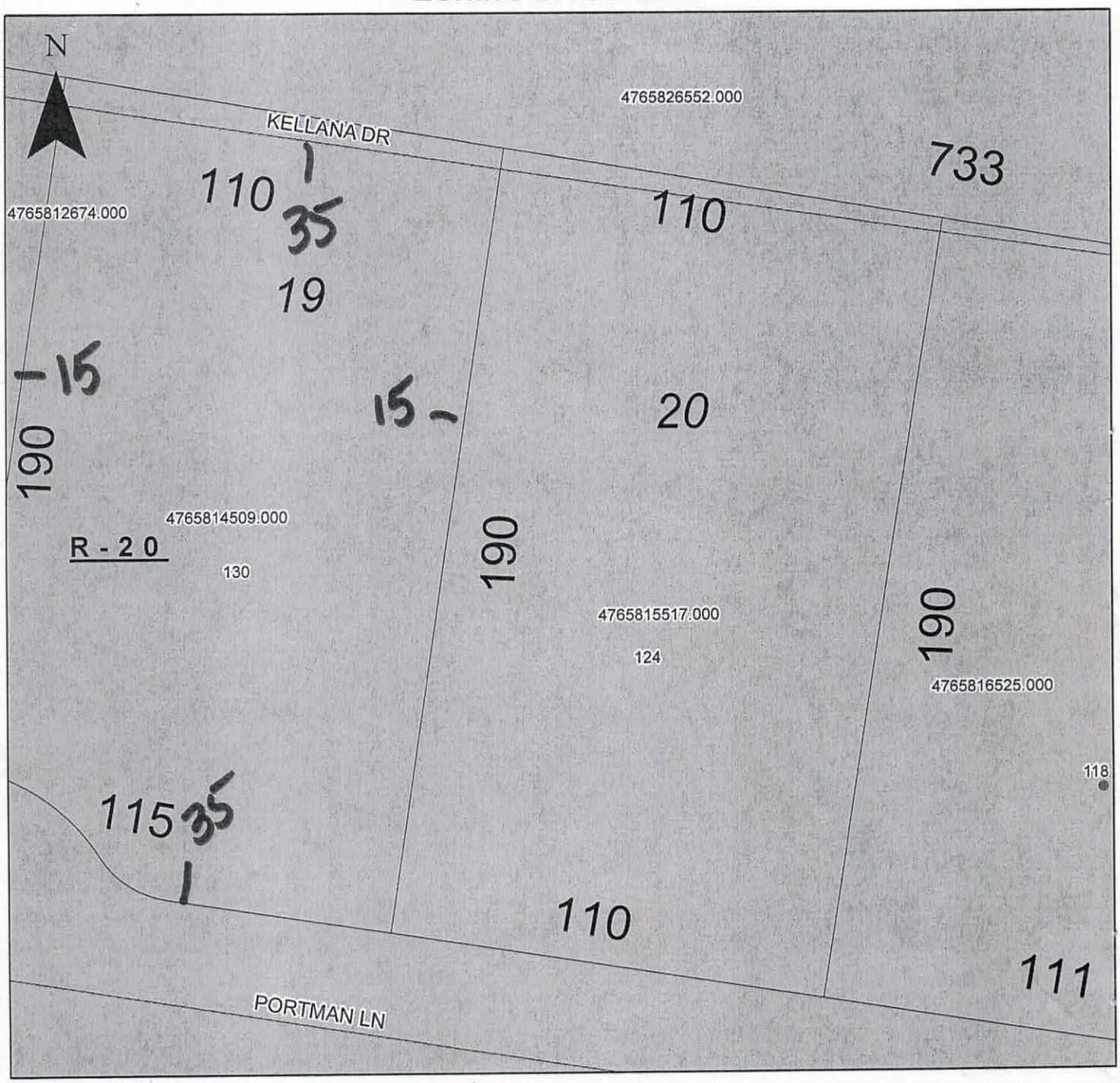
Remarks:

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.

Applicant: _____ Date: 8/9/17

Permit Number	111557	TOTAL FEES:	$ 77.25

ZONING DISCLAIMER



Property Address 130 Portman Ln

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. Applicant further acknowledges that the 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.

Sam Keller
Applicant

8/9/17
Date