IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 (BB) Mooresville Office (704) 660-3625

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

PERMIT # 246726

PIN # 473003.8131

APPLICANT/OWNER: CS+SC / DAVID ROGERS

APPLICANT ADDRESS: 239 STILLWATER ROAD, TROUTMAN, N.C. 28166

SITE ADDRESS: 471 STATE PARK ROAD, TROUTMAN, NC. 28166

PHONE: 704-902-8148 ALT. PHONE —

SITE DIRECTIONS: (I) ON 21, (R) ON PERTH, (R) ON STATE PARK, LOT ON (L) just past morrison farm rd.

SUBDIVISION: —

SAP CONTROLLED: ☐ YES ☑ NO

SECTION: — LOT # — LOT AREA: 6.47 AC DESIGN FLOW: 360 GPD L.T.A.R.: 0.25

Septic Tank	1000 (gal)	STB	160	Date	6-26-2019	☑ 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:		25% REDUCTION		☐ Other	No. Employees —
# Nitrification Fields	1	# Lines	2	Linear Ft	360	Maintenance Agreement Required:	☐ YES	☑ NO		☐ Slab	☑ Crawl Space
Trench Width	36 IN	Trench Bottom Depth(Low side)			33 IN	Gravel Depth	—	☑ GRAVITY	☐ PRESSURE	☐ Basement w/plumbing	☐ Basement w/o plumbing

Water Supply: ☑ Private ☐ Public ☐ Community

Comments / Conditions: SITE PLAN MUST REMAIN ATTACHED AT ALL TIMES FOR PERMIT TO BE VALID

PROPERTY IS RECORDED IN BOOK 2629 ON PAGE 717

INITIAL SITE SKETCH

THIS PERMIT IS ISSUED PURSUANT TO SECTION 11.(C) OF SL 2018-114 USING THE SIGNED AND SEALED LSS EVALUATION.

PLEASE SEE ATTACHED SITE PLAN BY: CS+SC CAROLINA SOIL AND SEPTIC CONSULTANTS ADRIAN L. PRUETT LSS # 1314

AS BUILT SKETCH

INSTALLED AS PERMITTED

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] 7/30

IMPROVEMENT PERMIT by: Bryant C. White Date: 7-30-2019

AUTHORIZATION TO CONSTRUCT by: Bryant C. White Date: 7-30-2019

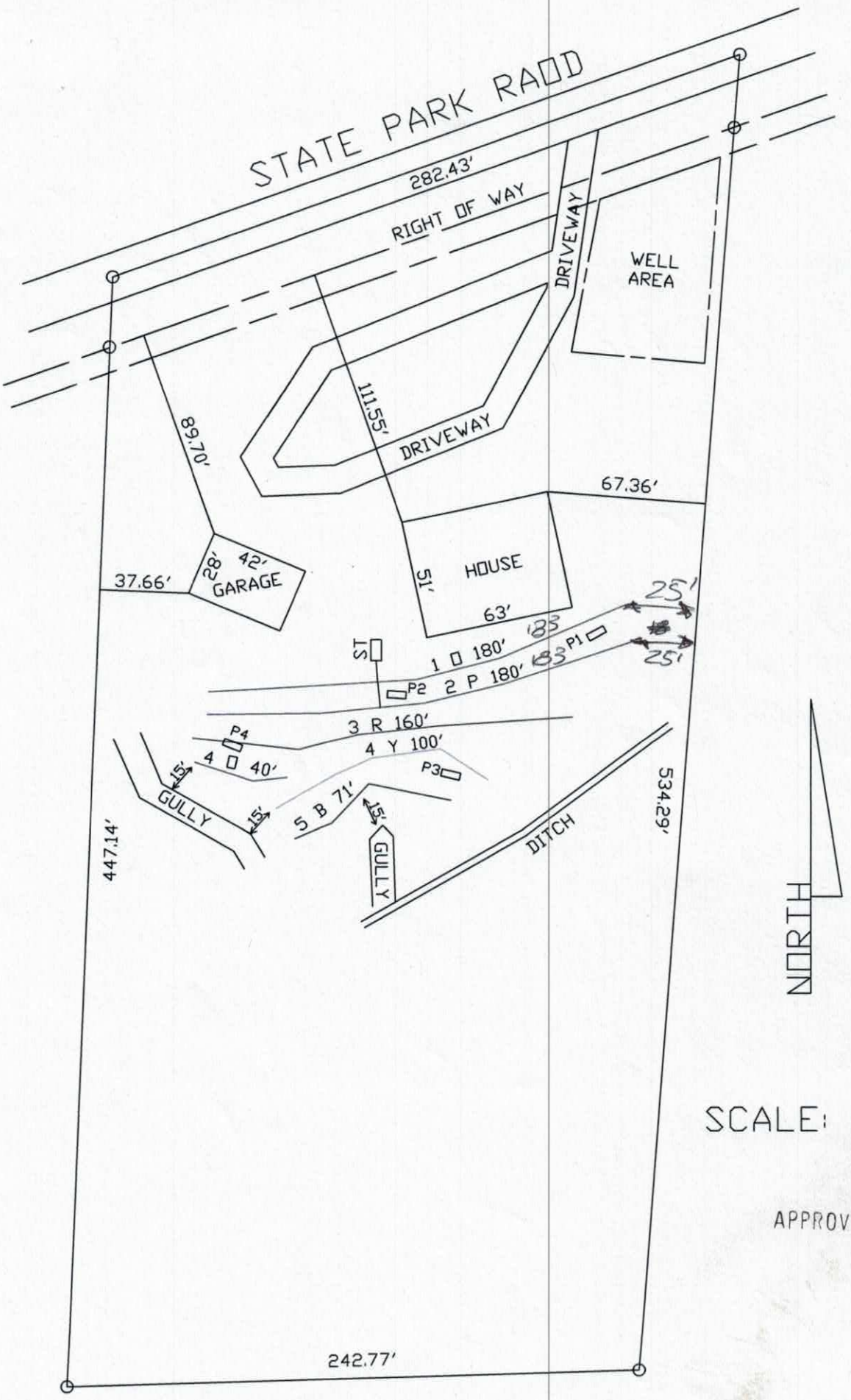
Installed by: SHANE JARRETT

OPERATION PERMIT by: Bryant C. White Date: 8-14-2019

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.

Copy not given - e-mailed 7/31/19 + [illegible]



SCALE: 1"=60'

APPROVED JUL 29 2019

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

July, 3rd 2019
Project Name: 19114

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 David Rogers (owner/applicant) for the property located at 471 State Park Rd Troutman NC (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: David Rogers
Mailing Address: 239 Stillwater Rd, Troutman NC 28166
Telephone Number: 704 902 8148
Email Address: _____

David Rogers
Signature of Owner/Owners Legal Rep.

7-3-19
Date

APPROVED JUL 29 2019

Carolina Soil & Septic Consulting, PLLC

P.O. Box 1703, Mooresville, NC 28115

Phone: (704) 202-5791 Email: adrianpruett@yahoo.com

NC Licensed Soil Scientist, SC Professional Soil Classifier,
Certified Septic System Operator, Licensed Septic Installer,
Certified Septic Inspector

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

**Proposed Design for a 25% Reduction Septic System
using Gravity distribution for a 3 bedroom single family residence
on 471 State Park Rd., Troutman, Iredell County, North Carolina**

Contents: **Page**

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

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

Site Plan/System Plan---------- 4

Dosing Calculations---------- 5

Soil Descriptions---------- 6

APPROVED JUL 29 2019

July 10, 2019
Job Number: 19114
Design By: Adrian Pruett, LSS



INFORMATION FOR INSTALLER:

- The permit should be read very carefully prior to submitting bid. 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.
- All tanks shall be properly back filled and compacted to prevent slump at a later date.
- The installer is responsible for final grades and returning that grade to original, with exception of added structural features.
- The supply trench shall be compacted to eliminate any 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 has no more than 1/4"fall in 10 feet with no high or low areas within. If high or low areas do exist after trench excavation, high areas should be removed rather than filling in low areas. Do not over excavate trenches! Any fine grading should be completed by hand with a rake and shovel, leaving no loose material.
- All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the riser.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral to prevent unwanted lateral water movement.
- Elevations at pin flag locations should be checked by the installer prior to beginning trenches to insure accuracy.
- If septic tank risers are used they should be a minimum of 6" above finished grade or within 6" of final grade if buried.
- Design precludes use of foundation drains on the residence.
- System is specified as an Accepted 25% Reduction Gravity installation.
- Repair is specified as Gravity 25% Reduction installation.
- Trench width is specified as 36" wide, rake and lime all trench sidewalls
- **If grading for slab foundation is utilized do not grade/create greater than 2 ft of elevation difference within 15 ft of any component of the septic or repair. If back filling do not backfill over any initial or repair septic line.**

APPROVED JUL 29 2019

OWNER INFORMATION

Owner: David Rogers
Address: 239 Stillwater Rd.
Troutman, NC 28166
Contact: Paul Norman
Phone: 828-312-5103
County: Iredell
Location: 471 STATE PARK RD., TROUTMAN

Source of Wastewater Flow: 3 Bedroom Single Family Residence
Design Flow 360

25% GRAVITY DESIGN INFORMATION

Drainfield Design Flow (gpd): 360
Loading/Soil Application Rate (gpd/ft.^{2}): 0.250
Depth of Gravel in Trench: NA (25% reduction)
Gravel Size: NA (25% reduction)
Total Lateral Length From Layout: 360
Total Lateral Length Required: 360
Trench Depth: 33 in. Lowside
Trench Width: 36 in.
TOTAL AREA TRENCH BOTTOM: 1080

Trench Spacing on Center: 9 ft.

Repair Trench Spacing: 9 ft.
Repair Trench Depth: 33 in.
Repair Trench Width: 36 in.

Repair Trench Spacing: 9 ft.
Repair Trench Depth: 33 in.

Septic Tank Size: 1000 gal.

Estimated Supply Line Length: 10
Supply Line Diameter: 3 in. SCH 40 PVC
Supply Line Volume: 3.60
Dosing Volume: NA
Supply Manifold: SERIAL DISTRIBUTION

Additional Comments: Soil suitability was performed by CS&SC

APPROVED JUL 29 2019

2	***PINK***	***NA***	***NA***	***180***	***180***
3	RED	NA	NA	160	160
4	ORANGE	NA	NA	40	40
5	YELLOW	NA	NA	100	100
6	BLUE	NA	NA	71	71
			Total	**731**	**731**

	LINE LENGTH	SYSTEM TYPE	SOIL LTAR GPD/FT^2	TRENCH SYSTEM	DISTRIBUTION
System	***360***	***ACCEPT.***	***0.250***	***25% RED.***	***GRAVITY***
Repair	371	*ACCEPT.*	0.250	25% RED.	GRAVITY

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

Comments: **Iredell County has CS&SC's permission to change septic tank location and distribution type**

APPROVED JUL 29 2019

DOSING CALCULATIONS

Location
Lot No:
Address: 471 STATE PARK RD.

No. of Bedrooms	3	
Design Flow	360	$^{gal}/_{day}$
LTAR	0.250	$^{gal}/_{ft^2\ day}$
25% RED.? (YES OR NO)	YES	
Supply Line Length	10	ft.
Supply Line Volume	3.6	gal.
Required Feet of 25% RED. Line	360	ft.
Amount of Line from Layout	360	ft.
Gallons per Minute	NA	$^{gal}/_{min}$
Septic Tank Capacity	1000	gal.
Minimum Septic Tank Capacity	1000	gal.
Lateral Line Volume	235.08	gal.

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

PROPERTY ID #: 4730036066
COUNTY: IREDELL

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

OWNER: DAVID ROGERS
APPLICATION DATE
ADDRESS: 239 STILLWATER RD., TROUTMAN, NC 28166
DATE EVALUATED: 6/24/19
PROPOSED FACILITY: RES
PROPOSED DESIGN FLOW (.1949): 360 GPD
PROPERTY SIZE: 3.00 AC
LOCATION OF SITE: 471 STATE PARK RD., TROUTMAN, NC
PROPERTY RECORDED: YES
WATER SUPPLY: X Private ☐ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☐ Auger Boring X Pit ☐ Cut
TYPE OF WASTEWATER: X 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	
P 1	LSS/FS 7%	0-16	R C MFSBK	FI S P SEXP	-COM TRANSLOCATED B SCL -FEW YB	60"	N/A	N/A	PS
		16-29	R C MMSBK/ABK	FI S P SEXP					
		29-47	R C MFSBK	FI S P SEXP					
		47-54	R C MFSBK	FI S P SEXP	-FEW SAP				0.25 GPD/SQFT
		54-60	R CL WFSBK	FR SS SP SEXP	-COM SAP				
P 2	LSS 6%	0-2	DB O	FR SS SP SEXP	N/A	56"	N/A	N/A	PS
		2-21	R C MMSBK/ABK	FI S P SEXP					
		21-42	R C MFSBK	FR SS SP SEXP	-COM SAP				
		42-56	YR CL WFSBK	FR SS SP SEXP	-COM SAP				0.3 GPD/SQFT
P 3	FS 4%	0-8	R C MFSBK	FR SS SP SEXP	N/A	63"	N/A	N/A	PS
		8-27	R C MMABK	FI S P SEXP	-FEW YB, FEW YB AROUND ROOTS				
		27-36	R C MFSBK	FR SS SP SEXP					
		36-59	R CL WFSBK	FR SS SP SEXP	-COM SAP				0.25 GPD/SQFT
		59-63	YR CL WFSBK	FR SS SP SEXP	-COM/MANY SAP				
P 4	LSS 6%	0-27	R C MFSBK	FR SS SP SEXP	N/A	57"	N/A	N/A	PS
		27-57	YR CL WFSBK	FR SS SP SEXP	-COM SAP, 13" WIDE SAP VEIN NORTH WALL				
									0.35 GPD/SQFT

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	GRAVITY 25%	GRAVITY 25%
Site LTAR	0.25	0.25

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

APPROVED JUL 29 2019

LICENSED SOIL SCIENTIST ADRIAN L. PRUETT 1314 NORTH CAROLINA

COMMENTS

BW *Session Law Well* 246726 Pd $1050

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

Application For: (✓) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
(✓) Septic Improvement Permit (✓) 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.

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 (✓) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information: (PRINT CLEARLY)

Applicant Name: DAVID ROGERS/CS&SC Address: 239 STILLWATER RD., TROUTMAN Zip: 28166

Applicant Email: _____ Phone: 704-902-8148 Alt. Phone: _____

Owner Name: DAVID ROGERS Address: 239 STILLWATER RD., TROUTMAN Zip: 28166

Owner Email: _____ Phone: 704-902-8148 Alt. Phone: _____

Property Information:

Street Address: 471 STATE PARK RD., TROUTMAN

Subdivision Name: _____ Section/Phase: _____ Lot Number: _____

Driving Directions: HWY 115 S., TR ON PERTH, TR ON STATE PARK, LOT ON L AFTER MORRISON FARM

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

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

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

CHECK FOUNDATION TYPE
(✓) Crawl Space Foundation
(✓) 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 ( ) 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 (✓) No Does the site contain any jurisdictional wetlands?
( ) Yes (✓) No Is any non-domestic sewage (i.e. industrial) to be generated?
( ) Yes (✓) 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: _____ 7-19-19
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

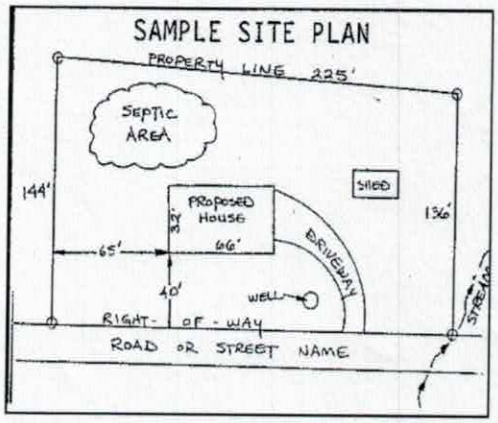
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

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:

- (✓) **Property Line measurements are clearly identified**
- (✓) **All proposed structures are indicated**
- (✓) **Front and side setbacks from property line**
- (✓) **Preferred driveway location**
- (✓) **Preferred well location**
- (✓) **Preferred septic system location**
- (✓) **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: _____ 7-19-19

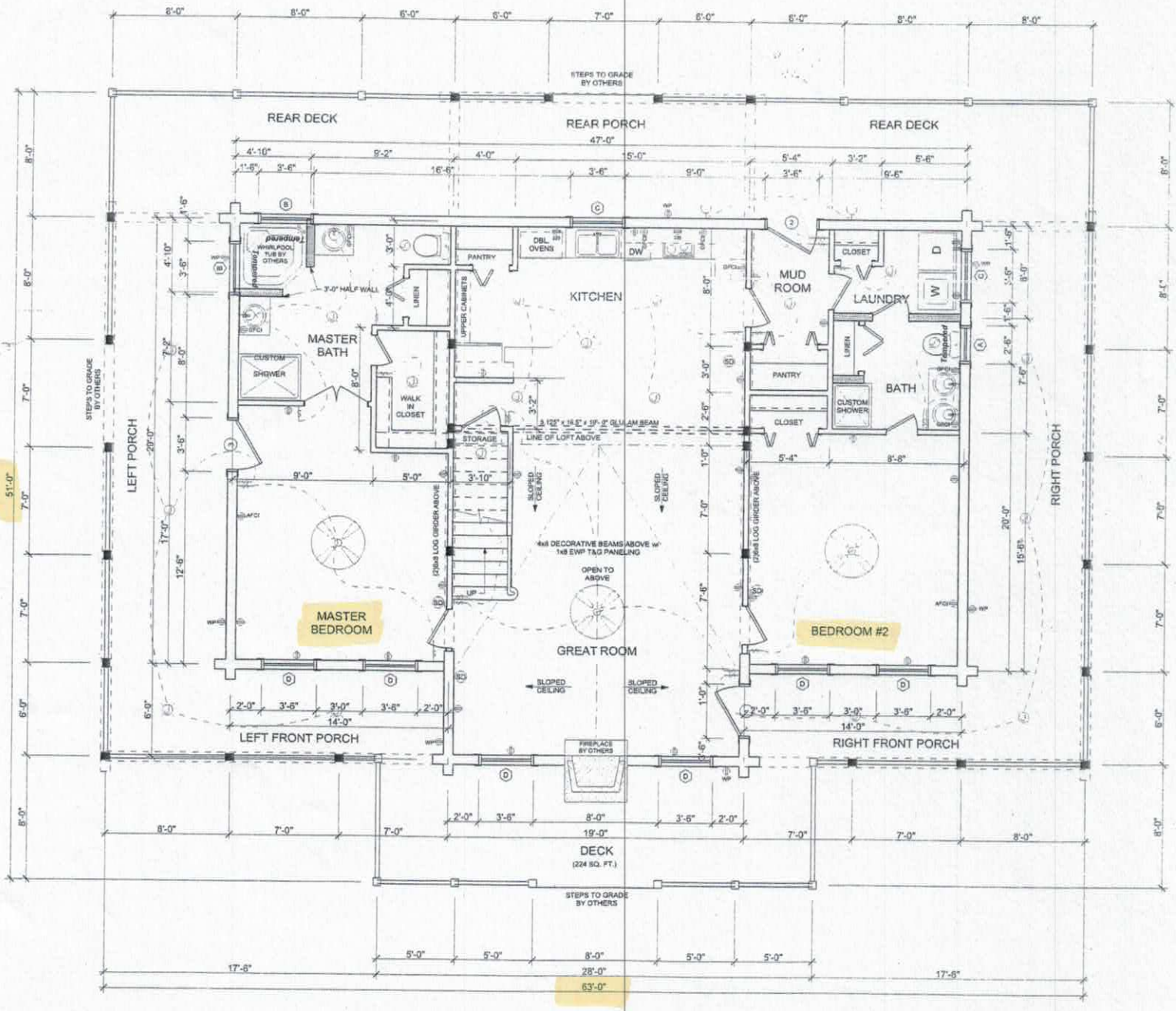
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) **DATE**

DOOR SCHEDULE

MARK	SIZE	ROUGH OP...	TYPE	QTY	REMARKS	PROVIDED...
1	3-0 x 6-8	3-2 1/2 x 6-10 1/2	EXT	1	Fiberglass 2-Panel 9 Lite Door-LI	Southland
2	3-0 x 6-8	3-2 1/2 x 6-10 1/2	EXT	1	Fiberglass 2-Panel 9 Lite Door-RI	Southland
3	3-0 x 6-8	3-2 1/2 x 6-10 1/2	EXT	1	Fiberglass Full View French Door-LI	Southland

SLH Window Schedule

MARK	SIZE	ROUGH OPENING	TYPE	QTY	REMARKS	PRO
A	2-0 x 3-2	2-2 1/8 x 3-4 7/8	D/H	1	Terratone Clad Single-Tempered	So
B	3-0 x 3-2	3-2 1/8 x 3-4 7/8	D/H	2	Terratone Clad Single-Tempered	So
C	3-0 x 3-2	3-2 1/8 x 3-4 7/8	D/H	2	Terratone Clad Single	So
D	3-0 x 4-10	3-2 1/8 x 5-0 7/8	D/H	6	Terratone Clad Single	So



Acknowledgement Of Plans Submittal ONLY!

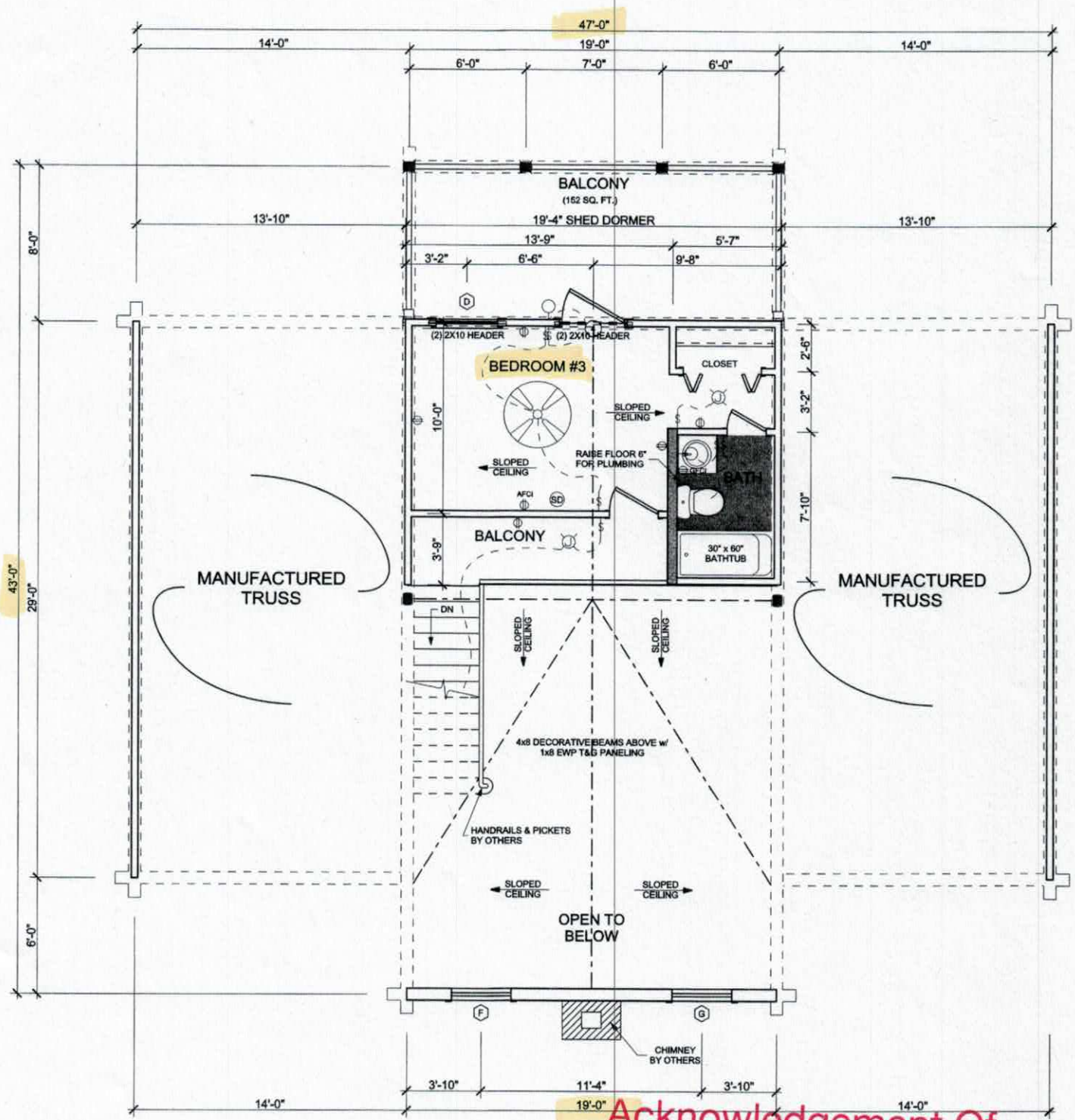
Builder Date 7-29-2019

Date 7/30

First Floor Plan

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

SEE ATTACHED



Acknowledgement Of
Plans Submittal ONLY!

By Grant C. White Date 7-29-2019

Date 7/30

IREDELL COUNTY

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

APPLICATION NUMBER
246726
Issue Date: 07/17/2019

ZONING PERMIT

Residential

Parcel Number	Street Address	Jurisdiction
4730036066.000	471 STATE PARK ROAD, TROUTMAN, NC 28166	

Owner Information	Applicant Information
Owner: BOST RYAN M+ANGELA DENISE	Applicant: CAROLINA SOIL SEPTIC C
Address: 133	Address: 162 WEST B ST
IREDELL CO, NC 28625	KANNAPOLIS, NC 28081
Phone:	Phone: 704-202-5791

Use Requested	Zone Code
SFD	

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
6.470	35.00	35.00	15.00	15.00	CACL	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: _____

Permit Number	185382	TOTAL FEES:	$ 77.25