ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 | CGN Mooresville Office (704) 660-3625 | PERMIT # 305930

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

PIN # 4645281746.000

APPLICANT/OWNER: Dave White / CS+SC | APPLICANT ADDRESS: 131 Lynn Cove Lane Mooresville NC 28117

SITE ADDRESS: 131 Lynn Cove Lane Mooresville NC 28117 | PHONE: 704-309-4801 | ALT. PHONE —

SITE DIRECTIONS: Hwy 21 S. TL on Alcove TR on Templeton TR on Lynn Cove Lot on Left | SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Morgan Landing | SECTION: — | LOT # 6 | LOT AREA: .471 | DESIGN FLOW: 480 | L.T.A.R.: .30

Septic Tank	1000 EXT (gal)	STB	0 EXT	Date	EXT	☐ New System	☐ Repair	☒ Expansion	System Type: I II III IV V VI
Pump Tank	— (gal)	PT	—	Date	—	System Description:	Gravity - PPBPS		
Pump Make	—	Model	—	Serial #	—	Repair System Description:	LP-PPBPS		
# Nitrification Fields	1	# Lines	2	Linear Ft:	68	Maintenance Agreement Required:	☐ YES	☒ NO	
Trench Width	24	Trench Bottom Depth(Low side)	34	Gravel Depth	—	☒ GRAVITY	☐ PRESSURE		

☒ Residence	No. Bedrooms	4	Water Supply		
☐ Business	No. Persons	8	☒ Private		
☐ Other	No. Employees		☐ Public		
☐ Slab	☒ Crawl Space		☐ Community		
☐ Basement w/ plumbing	☐ Basement w/o plumbing				

Comments / Conditions: 3/4 Flow to Existing 1/4 Flow to additional drainfield

INITIAL SITE SKETCH

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

Carolina Soil + Septic Consulting PLLC

LSS # 1314

AS BUILT SKETCH

onsitesketch
Not to scale

10/20/2020: New lines and PBoxes all checked and good. set speed levelers.

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: Acknowledgment of Acceptance Received | Date: 4/6/2020 | Installed by: Galle Excavation

IMPROVEMENT PERMIT by: Benjamin A Batton | Date: 3/26/2020 | OPERATION PERMIT by: Patrick J Galle III | Date: 10/20/2020

AUTHORIZATION TO CONSTRUCT by: Patrick J Galle III | Date: 10/20/2020 | 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.

IREDELL COUNTY HEALTH DEPARTMENT
JANE HINSON, RN BSN MS
HEALTH DIRECTOR

Public Health
Prevent. Promote. Protect.
Iredell County Health Department

ACKNOWLEDGEMENT OF ACCEPTANCE OF PERMIT DESIGN AND CONDITIONS

Any permit requiring a signature must have this form signed by the property owner or their authorized agent. Once this form is signed and returned to Environmental Health an official copy of the permit will be emailed to the email that you provide.

I, Adrian Pruett (CS&SC), am the legal owner or the agent of the property located at 131 Lynn Cove Ln, Mooresville, identified as PIN(Parcel Identification Number) 4645281746, located in Iredell County, North Carolina.
Permit # 305930.

I do hereby agree to the permit design and the conditions of this permit.

4-2-20
Signature of Owner Date

4.4.2020
Signature of Witness Date

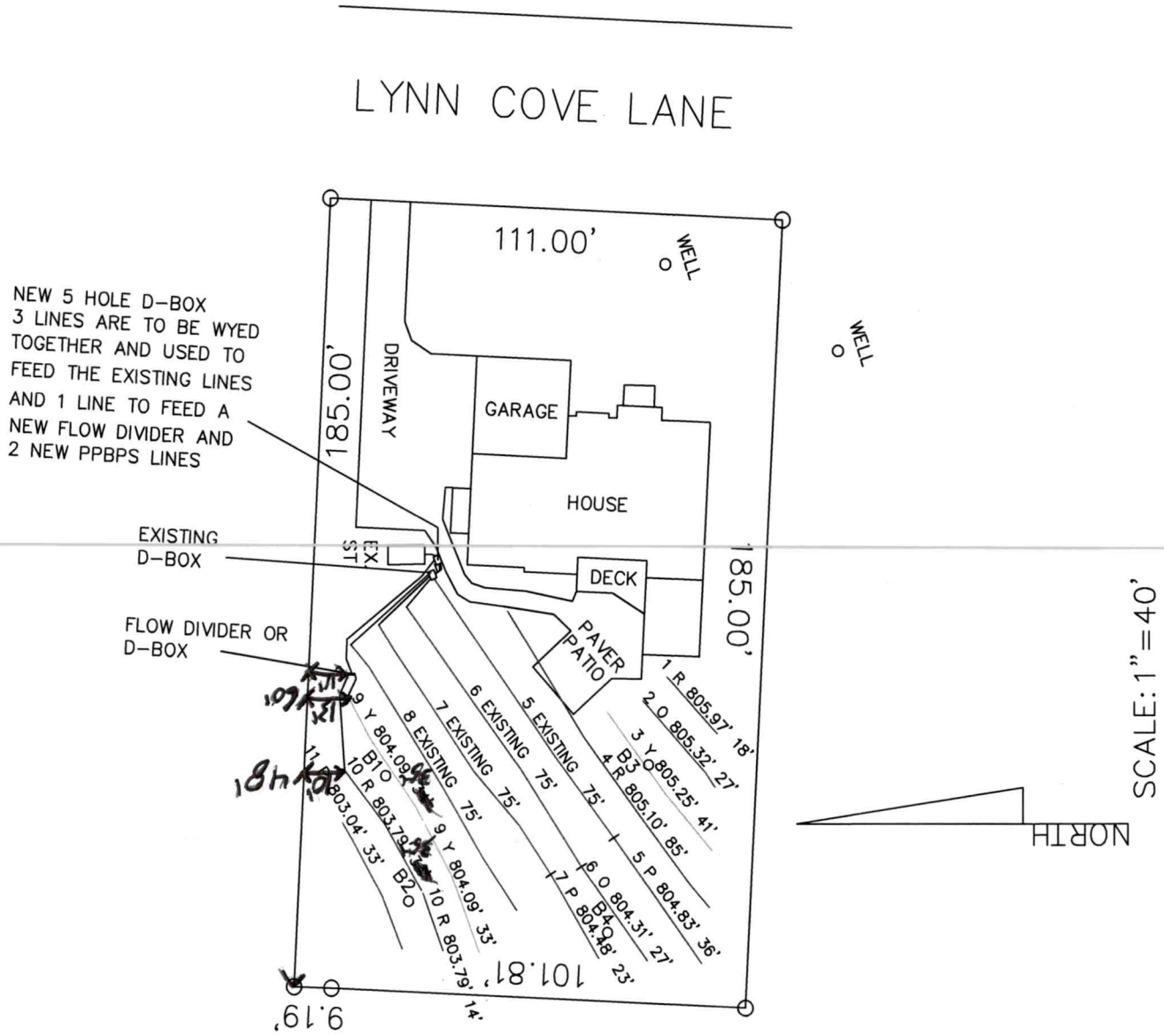
adrianpruett@yahoo.com
email

Central Office (Health Dept.)
318 Turnersburg Hwy
Statesville, NC 28625
704 878-5300

Mooresville – Environmental Health
610 E. Center Avenue
Mooresville, NC 28115
704 663-3625

Statesville - Environmental Health
349 N. Center Street
Statesville, NC 28677
704 878-5305 x3456

http://www.co.iredell.nc.us/Departments/Health/


LYNN COVE LANE
111.00'
WELL
WELL
NEW 5 HOLE D-BOX
3 LINES ARE TO BE WYED
TOGETHER AND USED TO
FEED THE EXISTING LINES
AND 1 LINE TO FEED A
NEW FLOW DIVIDER AND
2 NEW PPBPS LINES
185.00'
DRIVEWAY
GARAGE
HOUSE
EXISTING
D-BOX
EX.
ST.
DECK
PAVER
PATIO
185.00'
FLOW DIVIDER OR
D-BOX
1 R 805.97' 18'
2 O 805.32' 27'
3 Y 805.25' 41'
B3
4 R 805.10' 85'
5 P 804.83' 36'
6 O 804.31' 27'
B4
7 P 804.48' 23'
6 EXISTING 75'
5 EXISTING 75'
7 EXISTING 75'
8 EXISTING 75'
9 Y 804.09' 33'
10 R 803.79' 14'
9 Y 804.09' 33'
B1 O
10 R 803.79' 14'
803.04' 33'
B2 O
101.81'
9.19'
SCALE: 1"=40'
NORTH

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)

Attached is a proposed design for a 1 Bedroom Expansion using a PPBPS Septic System with GRAVITY distribution of the existing 3 bedroom single family residence using a 25% Reduction Chamber System on 131 Lynn Cove Ln., Morgan Landing Lot 6 , Iredell County, North Carolina.

Contents: **Page**

Installer Information---------- 1

Design Information
- Install Specifications---------- 2
- Field Layout Specifications---------- 3

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

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

Profile Descriptions---------- 6

Sesson Law/House Bill 374 Authorization Form---------- 7

March 9, 2020
Job Number: 20033
Design By: Adrian L. Pruett



INSTALLER INFORMATION:

- 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.
- Pump tank riser should be 6" above grade, control panel should be 12" above grade.
- 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.**
- Backfill minimum of 6" of material (County Approved) over panels, rake trench walls, lime side walls, install trenches **24"** wide.
- **Expansion System is specified as a PPBPS with Gravity Distribution using a Distribution Box or Flow Splitter to divid flow between two new PPBPS lines.**
- **Repair is specified as Low Pressure PPBPS.**
- Distribution Box must be on a level surface and to insure proper leveling, speed levelers must also be utilized, 3" to 2" reducer will need to be used outside box for speed leveler install.
- **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.**

PRESSURE MANIFOLD SYSTEM
INSTALL SPECIFICATIONS

Owner:	David White
Address:	131 Lynn Cove Ln. Mooresville, NC 28117
Phone:	704-309-4301
County:	Iredell
Location:	131 LYNN COVE LN., MORGAN LANDING LOT 6
Source of Wastewater Flow:	4 Bedroom Single Family Residence
Expantion Gallons Per Day Flow:	120
Drainfield Size:	68
Required Drainfield Size:	66.66666667
Loading Rate (gpd/ft.^{2}):	0.3
Depth of Gravel in Trench:	NA (50% reduction)
Gravel Size:	NA (50% reduction)
Trench Depth:	34 in.
Trench Width:	**24 in.**
Total Trench Bottom Area:	136
Repair Trench Spacing:	8 ft.
Repair Trench Depth:	33 in.
Repair Trench Width:	24 in.
Existing Septic Tank Size:	**1000**
Estimated Supply Line Length:	3
Supply Line Diameter:	3 in. SCH 40 PVC
Supply Line Volume:	1.15
Supply Manifold:	Distribution Box
Additional Comments:	Soil suitability was performed by Carolina Soil & Septic Consulting, PLLC

131 LYNN COVE LN., MORGAN LANDING LOT 6
FIELD LAYOUT SPECIFICATIONS

LAYOUT FOR 1 BEDROOM EXPANSION OF THE EXISTING 3 BEDROOM SEPTIC FOR A TOTAL OF 4 BEDROOMS — March 9, 2020

LINE #	FLAG COLOR	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM				
INSTR. 1 HOUSE CNR P. TANK				
1	RED	N/A	18	18
2	ORANGE	N/A	27	27
3	YELLOW	N/A	41	41
4	RED	N/A	85	85
5	***EXISTING***	***N/A***	***75***	***75***
5	PINK	N/A	36	36
6	***EXISTING***	***N/A***	***75***	***75***
6	ORANGE	N/A	27	27
7	***EXISTING***	***N/A***	***75***	***75***
7	PINK	N/A	23	23
8	***EXISTING***	***N/A***	***75***	***75***
9	***YELLOW***	***N/A***	***34***	***34***
9	YELLOW	N/A	33	33
10	***RED***	***N/A***	***34***	***34***
10	RED	N/A	14	14
11	PINK	N/A	33	33
		Total	**705**	**705**

	LINE LENGTH	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
**** New System***	***68***	***MOD.***	***0.300***	***PPBPS***	***GRAVITY***
****Ex. System***	***300***	***ACCEPT.***		***25% RED.***	***GRAVITY***
Repair	337	MOD.	0.300	PPBPS	LOW PRESSURE

Notes:
** TBM not required.
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags

Comments: **In an attempt to use the existing distribution a new D-Box will need to be added above the existing D-Box; 4 outlet pipes should be installed with 3 of them feeding the existing D-Box and drainfield and 1 feeding a new D-Box or Flow Divider to split the flow equally to the 2 new PPBPS (panel) lines. Other ways of distributing the water may be availible and can be considered before or at time of installation.**

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

DOSING CALCULATIONS

Location 131 LYNN COVE LN
Subdivision: MORGAN LANDING
Lot No: 6

Expansion No. of Bedrooms	1	
Total No. of Bedrooms	4	
Expansion Design Flow	120	$^{gal}/_{day}$
Total Design Flow	480	$^{gal}/_{day}$
LTAR	0.30	$^{gpd/ft^2}$
PPBPS.? (YES OR NO)	YES	
Supply Line Length	3	ft.
Supply Line Volume	1.152	gal.
Expansion Required Feet of Line	66.66667	ft.
Amount of Line from Layout	68	ft.
Total Number of Panels:	16	
Panel Volume	3.6	gal. each
Total Panel Line Volume	57.6	gal.
Existing Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	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 #: 4645281746
COUNTY: IREDELL

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

OWNER: DAVID WHITE
ADDRESS: 131 LYNN COVE, MOORESVILLE, NC 28117
PROPOSED FACILITY: SFR PROPOSED DESIGN FLOW (.1949): 480 GPD
LOCATION OF SITE: 131 LYNN COVE RD

APPLICATION DATE:
DATE EVALUATED: 2/12/2020
PROPERTY SIZE: .471 AC
PROPERTY RECORDED: YES

WATER SUPPLY: PRIVATE PUBLIC X WELL SPRING OTHER:

EVAL. METHOD: X A. BORING PIT CUT **WASTEWATER TYPE** 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 SAPROLITE CLASS	.1944 RESTR HORIZON	
1	LSS 6%	0-4	FILL		FEW SAP 36-48"	48"	N/A	N/A	PS .3
		4-12	B CL WFSBK	FR SS SP SEXP					
		12-36	R C MFSBK	FI S P SEXP					
		36-48	R C MFSBK	FI S P SEXP					
2	LSS 6%	0-13	B CL WFSBK	FR SS SP SEXP	FEW SAP 30-48"	48"	N/A	N/A	PS .3
		13-30	R C MFSBK	FI S P SEXP					
		30-48	R C MFSBK	FI S P SEXP					
3	LSS 7%	0-4	FILL		FEW SAP 42-48"	48"	N/A	N/A	PS .3
		4-12	B CL WFSBK	FR SS SP SEXP					
		12-42	R C WFSBK	FI S P SEXP					
		42-48	R C MFSBK	FI S P SEXP					
4	LSS 6%	0-14	B CL WFSBK	FR SS SP SEXP	FEW MN FROM PARENT 14-48" FEW SAP 42-48"	48"	N/A	N/A	PS .3
		14-42	BR C WFSBK	FI S P SEXP					
		42-48	YR C MFSBK	FI S P SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
AVAILABLE SPACE (.1945)	PS	PS
SYSTEM TYPE(S)	GRAVITY 25% RED.	LP PPBPS
SITE LTAR	0.3	0.3
COMMENTS		

OTHER FACTORS (.1946): N/A
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: ADRIAN PRUETT
OTHER(S) PRESENT: JACOB CONRAD

LICENSED SOIL SCIENTIST ADRIAN L. PRUETT 1014 STATE OF NORTH CAROLINA

RECEIVED MAR 13 2020
AP-305930
$500.00

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: Dave White/CS&SC **Address:** 131 Lynn Cove Ln., Mooresville **Zip:** 28117
Applicant Email: dave@whbinc.net **Phone:** 704-309-4301 **Alt. Phone:**
Owner Name: Same **Address:** **Zip:**
Owner Email: **Phone:** **Alt. Phone:**

Property Information:

Street Address: 131 Lynn Cove Ln., Mooresville
Subdivision Name: Morgan Landing **Section/Phase:** **Lot Number:** 6
Driving Directions: Hwy 21 S., TL on Alcove, TR on Templeton, TR on Lynn Cove, Lot on L

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

CHECK FOUNDATION TYPE

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

(✓) 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: _____ 3-13-20
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

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

Date: 3/13/2020
Project Name: 20033

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 White (owner/applicant) for the property located at 131 Lynn Cove Ln., Mooresville, NC 28117/4645281746 (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.

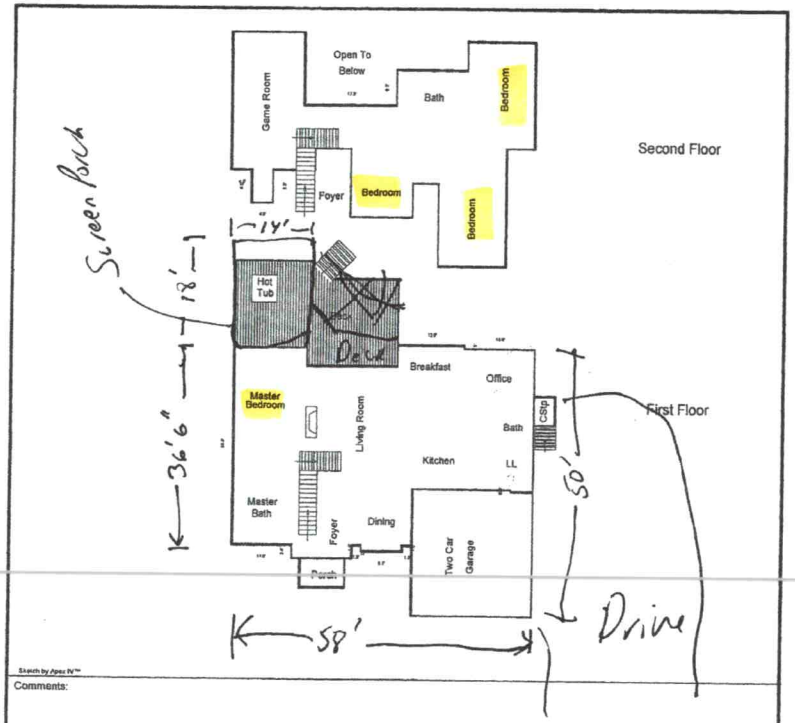
Owner/Owners Legal Representative: David White
Mailing Address: 131 Lynn Cove Lane Mooresville NC 28117
Telephone Number: 704-309-4301
Email Address: Dave@WHBINC.Net

Signature of Owner/Owners Legal Rep.

3/13/20
Date

Building Sketch (Page - 1)

Borrower/Client White, David			
Property Address 131 Lynn Cove Lane			
City Mooresville	County Iredell	State NC	Zip Code 28117-9625
Lender Peoples Bank			



Sketch by Apex IV™

Comments:

AREA CALCULATIONS SUMMARY

Code	Description	Size	Net Totals
GLA1	First Floor	1868.66	1868.66
GLA2	Second Floor	1437.58	1437.58
P/P	CvdStoop	21.20	
	Porch	46.11	
	Deck	517.04	584.35
GAR	Garage	541.60	541.60
	TOTAL LIVABLE (rounded)		3306

LIVING AREA BREAKDOWN

Breakdown			Subtotals
First Floor			
1.0	x	8.1	8.10
2.4	x	11.5	27.60
4.3	x	26.6	114.38
12.9	x	26.8	345.72
9.3	x	26.3	244.59
22.8	x	31.6	720.48
10.3	x	34.8	358.44
3.5	x	14.1	49.35
Second Floor			
4.0	x	6.0	24.00
13.0	x	19.2	249.60
7.6	x	22.0	167.20
13.7	x	20.6	282.22
5.4	x	15.5	83.70
3.3	x	6.2	20.46
8.0	x	31.8	254.40
8.8	x	12.5	110.00
4.0	x	16.0	64.00
13.0	x	14.0	182.00
18 Calculations Total (rounded)			3306

Patrick J Bole III 10/20/2020

10/20/20