ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # AP 322798

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

PIN # 4674 -17 -2428

APPLICANT/OWNER: Cory Ingram APPLICANT ADDRESS: 16230 Loch Raven Rd 28078

SITE ADDRESS: 174 Cantey Brook Lane Mooresville NC 28115 PHONE: 704-315-7164 ALT. PHONE -

SITE DIRECTIONS: Hwy 3 to Cantey Brook Lane End of Gravel SAP CONTROLLED: ☒ YES ☐ NO

SUBDIVISION: Winds of Grace SECTION: - LOT # 3 LOT AREA: 17.97 Ac DESIGN FLOW: 600 L.T.A.R.: .2703

Septic Tank ~~1000~~	(gal)	STB Plastic Infiltrator	Date	☒ New System	☐ Repair	☐ Expansion	System Type: I II (III) IV V VI	☒ Residence	No. Bedrooms 5	Water Supply	
Pump Tank 1500	(gal)	PT	Date	System Description: Gravity - Conventional				☐ Business	No. Persons 10	☒ Private	
Pump Make		Model	Serial #	Repair System Description: Gravity - Conventional				☐ Other	No. Employees	☐ Public	
# Nitrification Fields 1		# Lines 6	Linear Ft 740	Maintenance Agreement Required:	☐ YES	☒ NO		☐ Slab	☒ Crawl Space	☐ Community	
Trench Width 36in		Trench Bottom Depth (~~Low side~~) 48in upslope		Gravel Depth 12in	☒ GRAVITY	☐ PRESSURE		☐ Basement w/ plumbing		☐ Basement w/o plumbing	

Comments / Conditions:

4/21/22 Checked ST & Orange fitter & Tower 3 lines.
As of 4/21/22 LSS needs to submit new Septic plan with drainlines

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:

Cobble Creek Soil Consulting

LSS # 1291 Dated Nov, 30 2021

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.

4/22/22 Checked ~~lower~~ upper 3 lines moving uphill 126ft
38ft from house to ST
91ft from ST to drainfield

4/21/22 Installed hit Glade Soil so Soil Scientist came out to site.

*See attached "As-Built"/Revised Plan dated 4/28/22.

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: 1/7/2022 Installed by: Michael Benfield

IMPROVEMENT PERMIT by: [signature] Date: 1/6/2022 OPERATION PERMIT by: Maria Olson Date: 6/27/22

AUTHORIZATION TO CONSTRUCT by: [signature] Date: 1/6/2022 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 lower 3 lines	4/21/22	MD
Tanks Checked	4/21/22	MD
Pressure Manifold or Valve Box Checked		
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? _____	

Coddle Creek Soil Consulting
5500 Deer Run Court
Davidson, NC 28036
(704) 706 4645

November 30, 2021

Iredell County Environmental Health
349 North Center Street
Statesville, North Carolina 28687

Subject: Recommended Wastewater Disposal System
Pin # 4674172428 Lot 3
~~180~~ 174 Country Brook Lane
Mooresville, North Carolina 28115
Cory Ingram, Owner

To Whom It May Concern:

Enclosed you will find a copy of the wastewater disposal system proposed for owner Cory Ingram. The property is located at ~~180~~ 174 Country Brook Lane described as Pin # 4674172428 Lot 3. Attached are sealed soil notes as well as site plans and designs for a on-site wastewater disposal system. This design is submitted under Session Law 2018-114 (HB 374). Please review the enclosed document presented to you for Cory Ingram. Please contact me for concerns regarding the wastewater disposal system design.

"The LSS Evaluation attached to this application is used to produce design and construction features for permitting in accordance with SL 2018-114 Section 11.©."

Owner: Cory Ingram

Signature: _____

"The LSS Evaluation is submitted pursuant to and meeting requirements of SL 2018-114 Section 11.©."

Steve Cannon, LSS

Signature: Steve Cannon, LSS

Information for Installers, Contractors and Other Interested Parties

Follow all rules and regulations as set forth by the state of North Carolina regarding installation of septic systems in Section .1900 Sewage Treatment and Disposal Systems.

Do not grade, cut or bury anything in approved areas designated for initial system or repair system.

Remove trees by cutting at ground level. Do not dig out stump if at all possible.

Do not grade or skim area of septic system. Leave this area alone as is.

Do not compact the soil by vehicular traffic. Stay off the designated areas for sewage disposal systems.

Install sewage disposal systems only during dry conditions.

Do not over excavate nitrification trenches. Remove clods. Leave nitrification trenches clean and level.

Do not leave trash in nitrification trenches like soda bottles, pieces of pvc pipe or anything else that does not belong in the nitrification trenches.

If post installation is required, the designer will need a 5 week day notice from the installer to schedule a final inspection before covering the septic system.

No changes to septic system design without designer approval.

Once location of building corners are established DO NOT move the building without notifying the designer. Moving the building may void any permit issued to the property owner and may void the designed septic system.

Design Specifications for Proposed Wastewater Systems

Applicant: Cory Ingram
Property Address : 180 Country Brook Lane
Mooresville, North Carolina 28115
Pin: 4674172428
Lot 3
Acres: 17.979
Iredell County, North Carolina

Source of Water Flow	5 Bedroom House
Source of Water	Private Well
Estimated Daily Flow	600 gallons/day
Septic Tank	1500 gallons
Wastewater Treatment: Initial	Conventional Stone (12")
Loading Rate: Initial	.2703 g/d/sq.ft.
Drainfield Size : Initial	739.92 feet Conventional (740')
Trench Bottom Depth : Initial	48 inches on upslope
Slope : Initial	6 percent
Slope Correction : Initial	2 inches
Wastewater Treatment: Repair	Conventional Stone (12")
Drainfield Size: Repair	739.92 feet Conventional (740')
Loading Rate : Repair	.2703 g/d/sq.ft.
Trench Bottom Depth: Repair	48 inches on upslope
Slope : Repair	7 percent
Slope Correction : Repair	3 inches

Nitrification Lines Elevation and Length

Applicant: Cory Ingram
Property Address: ~~180~~ 174 Country Brook Lane
Mooresville, North Carolina 28115
Pin: 4674172428
Lot 3
Acres: 17.979
Iredell County, North Carolina

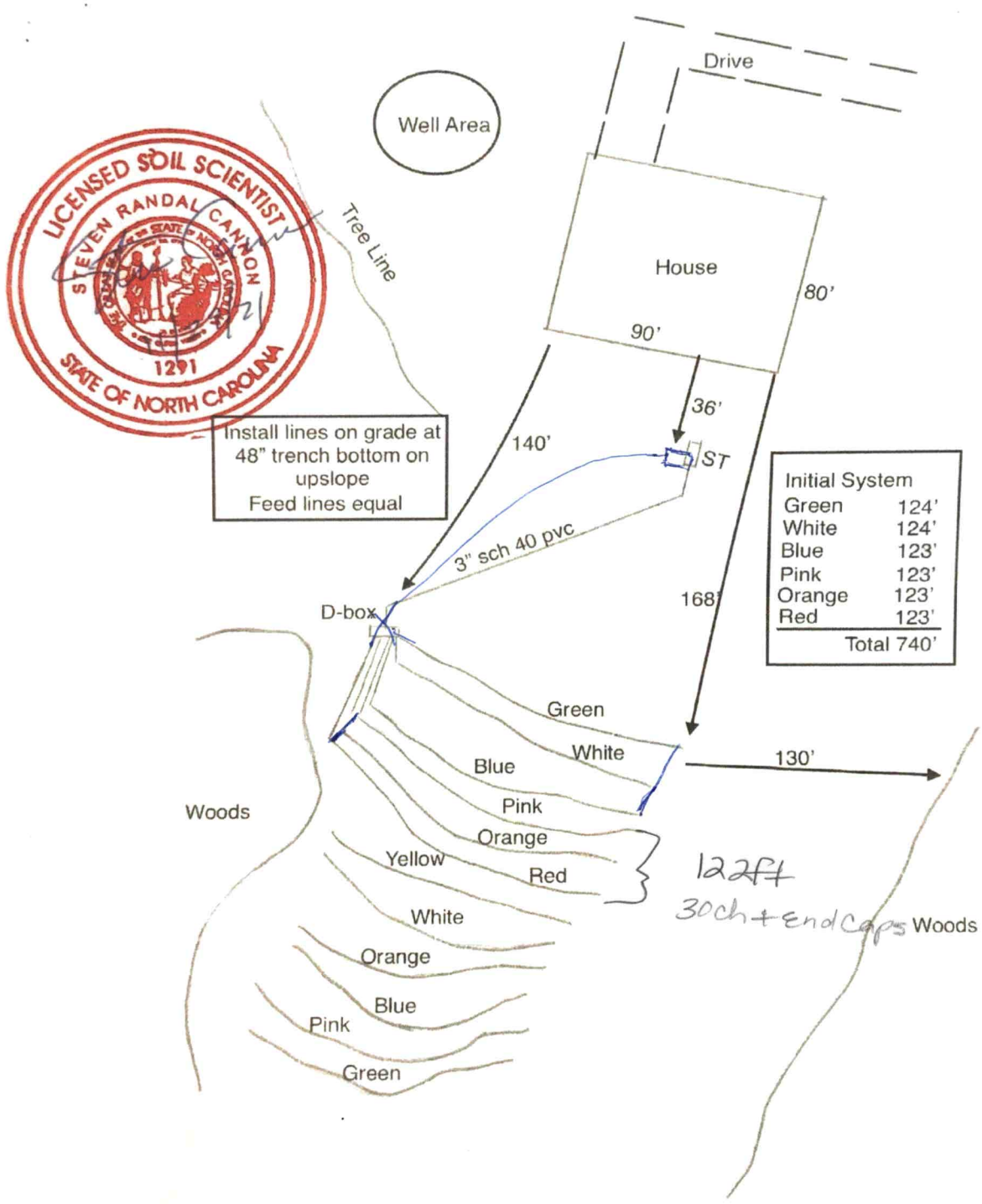
Initial

Line	Flag Color	Line Elevation	Flagged Length	Design Length
1	Green	3.43'	125'	124'
2	White	4.35'	125'	124'
3	Blue	5.31'	125'	123'
4	Pink	5.91'	125'	123'
5	Orange	6.5'	125'	123'
6	Red	7.22'	125'	123'
			Total 750'	Total 740'

Repair

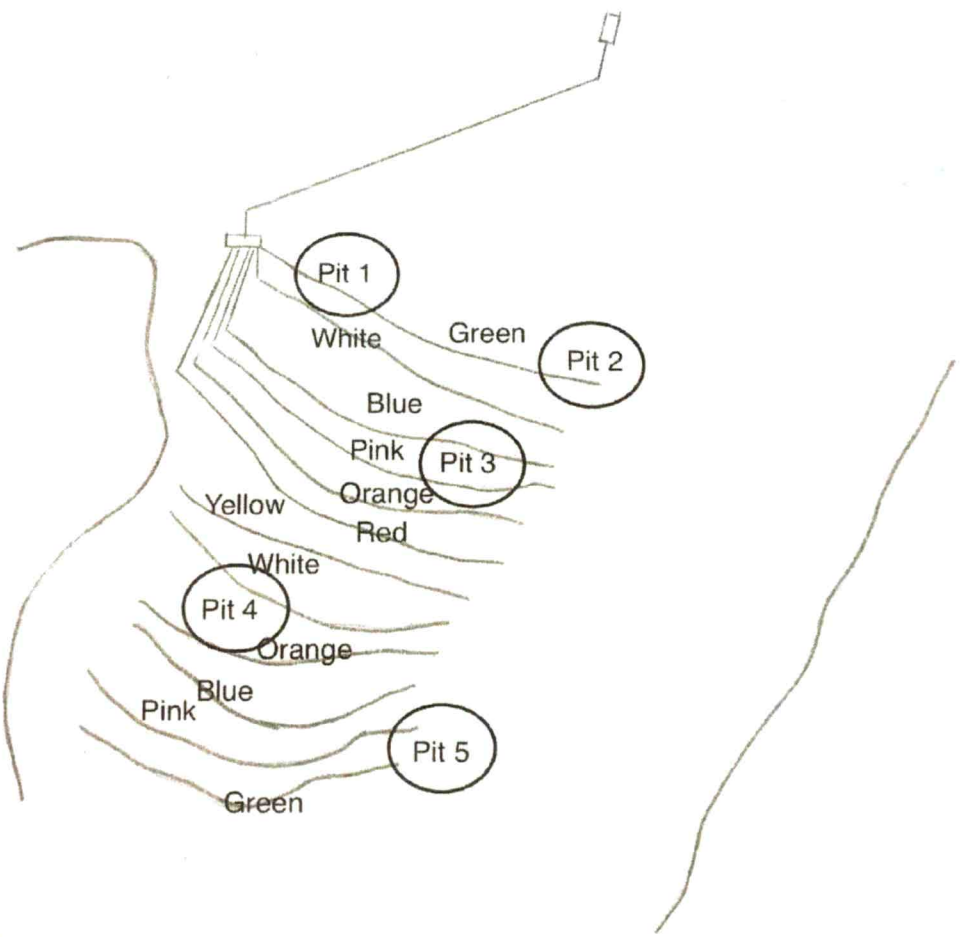
Line	Flag Color	Line Elevation	Flagged Length	Design Length
1	Yellow	3.20'	125'	124'
2	White	5.0'	125'	124'
3	Orange	6.33'	125'	123'
4	Blue	7.37'	125'	123'
5	Pink	8.64'	125'	123'
6	Green	9.52'	125'	123'
			Total 750'	Total 740'

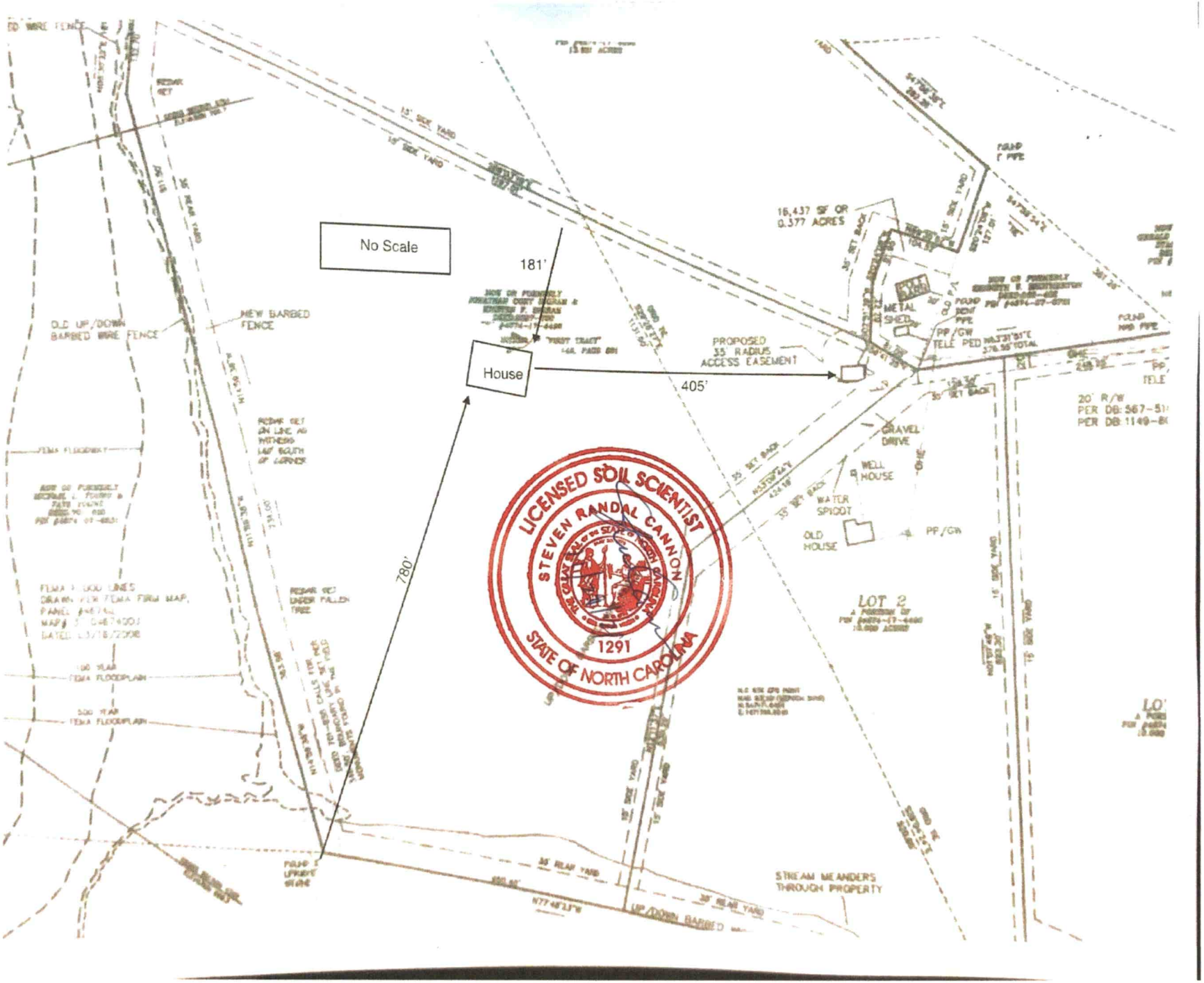
Scale: 1" = 60'


Drive
Well Area
Tree Line
House
80'
90'
36'
140'
ST
3" sch 40 pvc
168'
D-box
Install lines on grade at 48" trench bottom on upslope
Feed lines equal
Initial System
Green 124'
White 124'
Blue 123'
Pink 123'
Orange 123'
Red 123'
Total 740'
Green
White
Blue
Pink
Orange
Yellow
Red
White
Orange
Blue
Pink
Green
130'
Woods
Woods
122ft
30ch + end Caps
LICENSED SOIL SCIENTIST
STEVEN RANDAL CANNON
1291
STATE OF NORTH CAROLINA

Pit Locations

LICENSED SOIL SCIENTIST
STEVEN RANDAL CANNON
1291
STATE OF NORTH CAROLINA




No Scale
181'
780'
405'
House
PROPOSED
35' RADIUS
ACCESS EASEMENT
16,437 SF OR
0.377 ACRES
OLD UP/DOWN
BARBED WIRE FENCE
NEW BARBED
FENCE
METAL
SHED
PP/GW
TELE PED
GRAVEL
DRIVE
WELL
HOUSE
WATER
SPIGOT
OLD
HOUSE
PP/GW
LOT 2
20' R/W
PER DB 567-51
PER DB 1149-8
STREAM MEANDERS
THROUGH PROPERTY
LICENSED SOIL SCIENTIST
STEVEN RANDAL CANNON
1291
STATE OF NORTH CAROLINA

Sheet 1 of 2
PROPERTY ID #:
COUNTY: Iredell

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

OWNER: Cory Ingram 910-297-4577
ADDRESS: 162 30 Loch Rawn Rd 28078
PROPOSED FACILITY: ~~Home~~
LOCATION OF SITE: 174 ~~180~~ County Brook Lane Mooresville NC
WATER SUPPLY: ☑ Private ☐ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☐ Auger Boring ☑ Pit ☐ Cut
TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

APPLICATION DATE:
DATE EVALUATED: 11/8/21
PROPERTY SIZE: 17+
PROPERTY RECORDED:
PROPOSED DESIGN FLOW (.1949): 600

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1949 SOIL DEPTH	.1950 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
Pit 1	LL 6%	0-22"	C blocky	Sapp fi					PS .27
		22-42	C sbk	Sapp fi					
		42"-65"	C wssbk	Sapp fi			11/8/21 65"		
			C/sap/mix						
Pit 2	LL 6%	0-2"	L gr	NS NP					PS .27
		2-27"	C sbk	Sapp fi (roots)					
		27"-63"	C wssbk	Sapp fi C/sap/mix			68"		
		63-68"	CL wssbk	Sapp fi					
Pit 3	LL 7%	0-2"	L gr	NS NP					PS .27
		2"-25"	C sbk	Sapp fi (roots)					
		25"-44"	C wssbk	Sapp (few roots)			90"		
			C/sap/mix						
		44"-90"	L sapp	M					
Pit 4	LL 7%	0-2"	L gr	NS NP					PS .27
		2"-10"	CL wssbk	Sapp fi					
		10"-36"	C wssbk	Sapp fi			82"		
			C/sap/mix						
		36"-82"	C wssbk	Sapp fi (mn streaks)					
			C/sap/mix						

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	✓	✓
System Type(s)	Conventional	Conventional
Site LTAR	.27	.27

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Steve Cannon
OTHER(S) PRESENT:

COMMENTS: Conventional System 12" stone w/ shoe 48" T.B.

Updated February 2014

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

Sheet 2 of 2

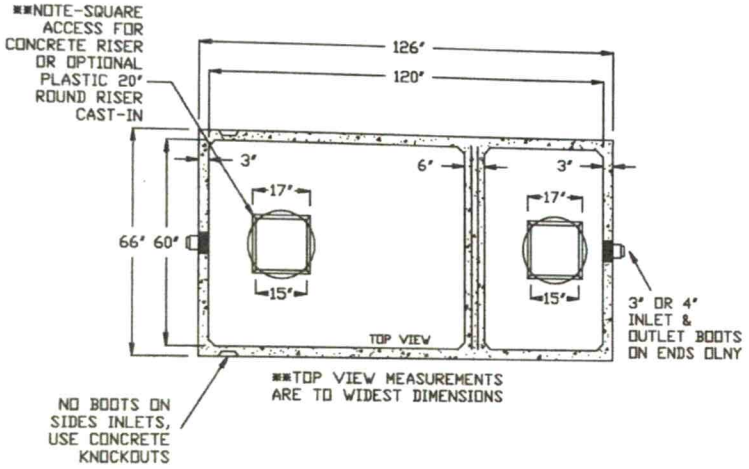
PROPERTY ID #:
DATE OF EVALUATION: 11/8/21
COUNTY: Iredell

Cory Ingram

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
P1 5	LL 7%	0-3"	L sgr	NS NP		83"			PS .27
		3"-16"	C plsty	sapp fi					
		16"-27"	C wssk	sapp fi					
			C/sap/mix						
		27"-83"	CL wssk	sapp fi					
			C/sap/mix						

LICENSED SOIL SCIENTIST
STEVEN CAMP
Steven Camp
11/8/21
SOIL
STATE OF NORTH CAROLINA

COMMENTS:



SHOAF PRECAST SEPTIC INC.
4130 WEST US HWY 64
LEXINGTON, NC 27295
PHONE (336) 787-5826
FAX (336) 787-2826

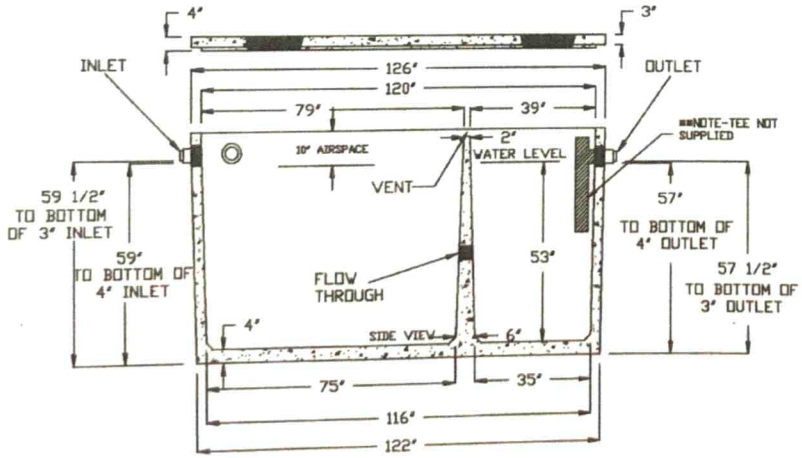
MODEL: TS 1500 STB

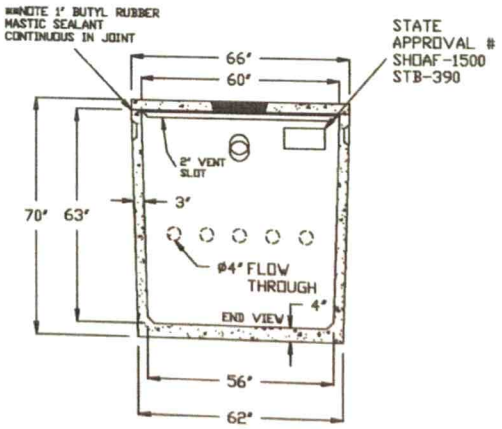
NON TRAFFIC

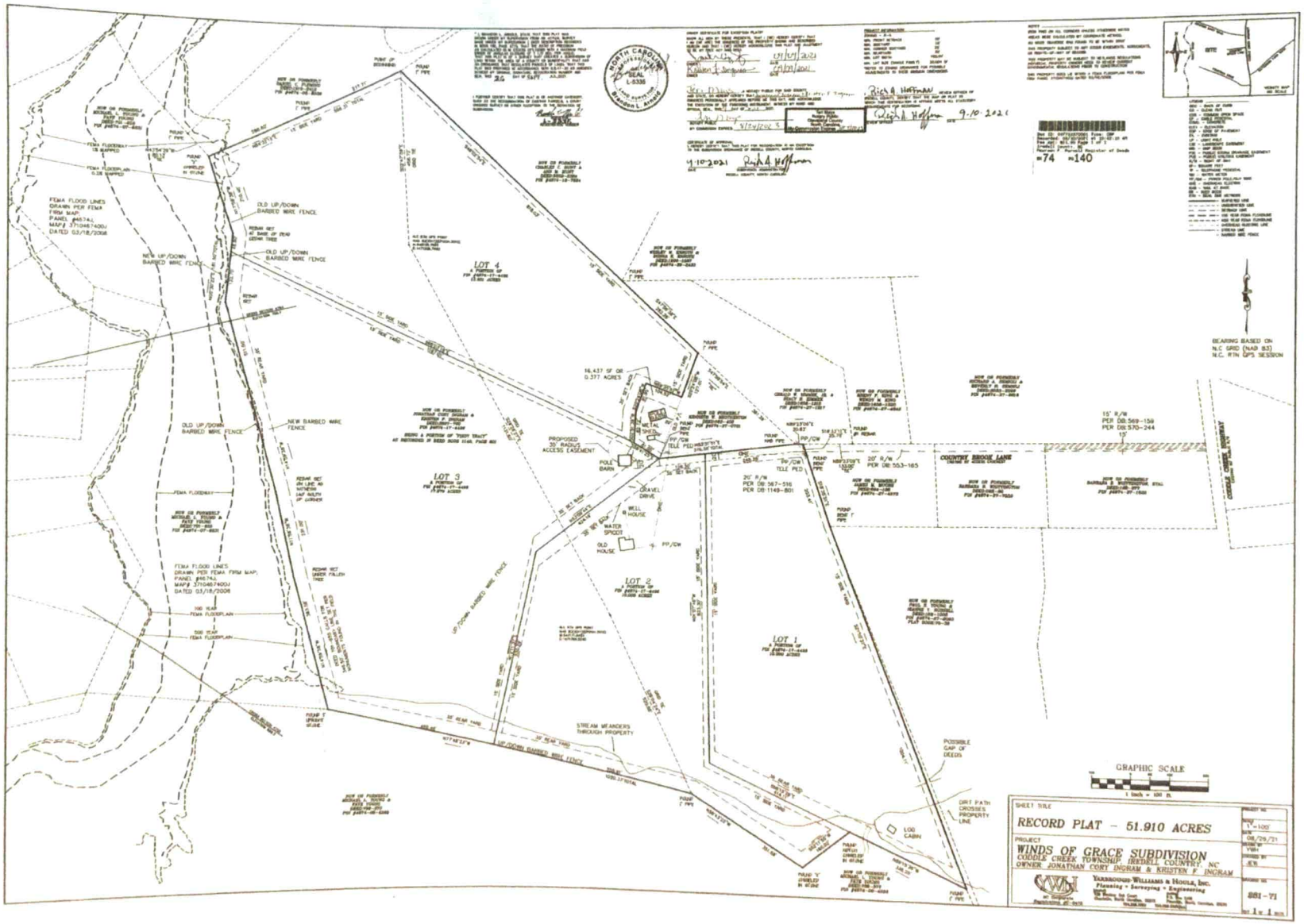
1500 Gallon Septic Tank

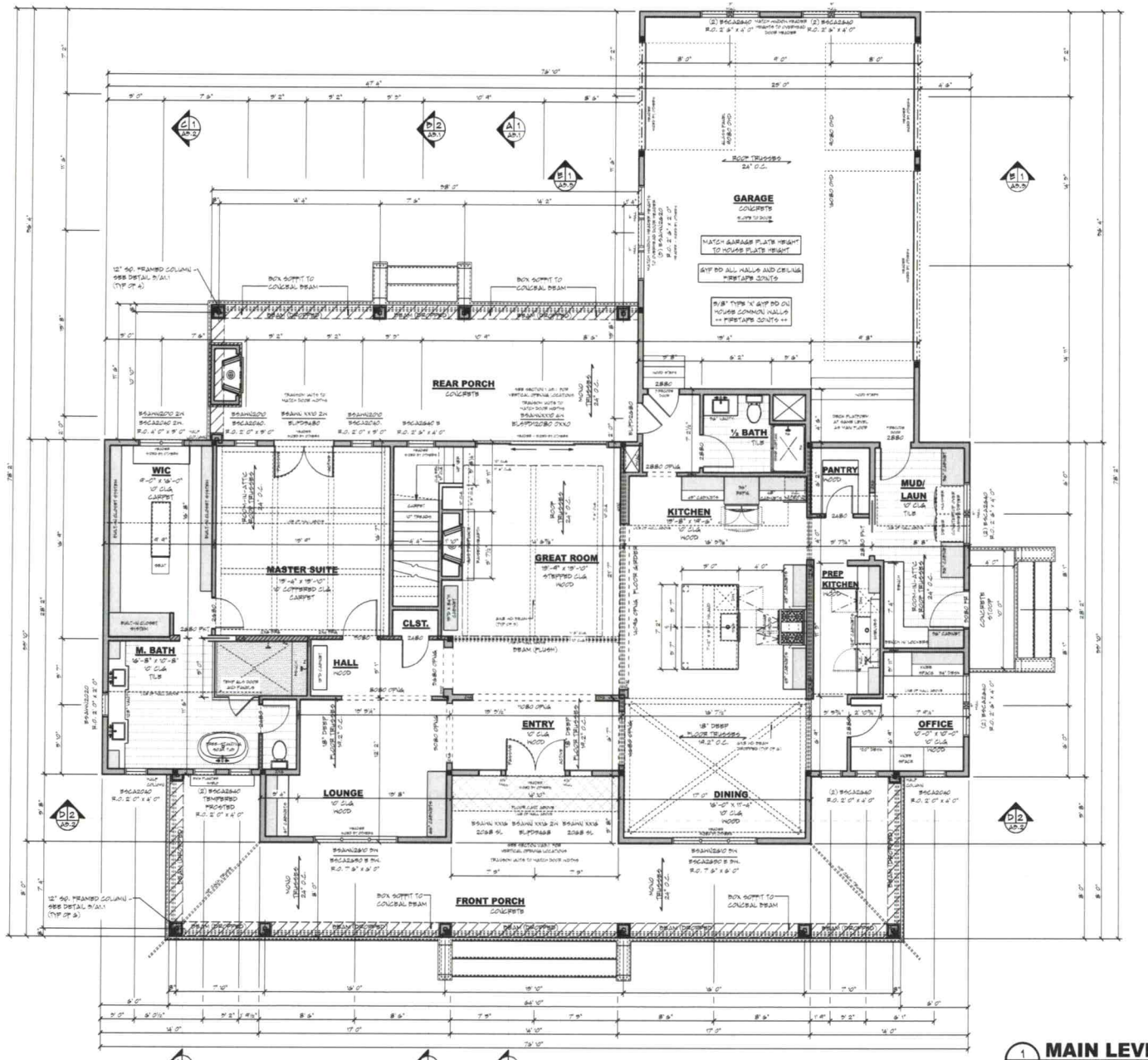
WWW.SHOAFPRECAST.COM
SHOAF-1,500 SEPTIC TANK
STB-390 NON TRAFFIC
LIQUID CAPACITY-1,517 GALLONS/AIRSPACE-10"
TANK HEIGHT-70"
BOTTOM OF TANK TO CENTER OF INLET-61"
BOTTOM OF TANK TO CENTER OF OUTLET-59"
LENGTH TO WIDTH RATIO-2 TO 1
SIZE OF INLET & OUTLET-3" OR 4" PIPE
TYPE OF INLET & OUTLET-POLYLOCK OR EQUAL (MEETS ASTM C-923)
CONCRETE PSI-4000; TANK WEIGHT- 13,000 LBS.
REINFORCEMENT PER STATE CODE

SCALE - N.T.S.






LOT 4
A PORTION OF PIN #9974-17-4166
13.901 ACRES
LOT 3
A PORTION OF PIN #9974-17-4466
17.974 ACRES
LOT 2
A PORTION OF PIN #9974-17-4468
10.000 ACRES
LOT 1
A PORTION OF PIN #9974-17-4469
10.034 ACRES
16,437 SF OR 0.377 ACRES
PROPOSED 30' RADIUS ACCESS EASEMENT
POLE BARN
GRAVEL DRIVE
WELL HOUSE
WATER SPIGOT
OLD HOUSE
COUNTRY BROOK LANE
UNBUILT PUBLIC ROAD
20' R/W
PER DB: 553-165
20' R/W
PER DB: 567-516
PER DB: 1149-801
15' R/W
PER DB: 569-159
PER DB: 570-244
15'
OLD UP/DOWN BARBED WIRE FENCE
NEW UP/DOWN BARBED WIRE FENCE
NEW BARBED WIRE FENCE
FEMA FLOOD LINES DRAWN PER FEMA FIRM MAP, PANEL #6674J, MAP # 3710467400J DATED 03/18/2008
100 YEAR FEMA FLOODPLAIN
500 YEAR FEMA FLOODPLAIN
STREAM MEANDERS THROUGH PROPERTY
POSSIBLE GAP OF DEEDS
DIRT PATH CROSSES PROPERTY LINE
LOG CABIN
BEARING BASED ON N.C. GRID (NAD 83) N.C. RTN GPS SESSION
GRAPHIC SCALE
1 inch = 100 ft.
SITE
VICINITY MAP
NO SCALE
RECORD PLAT - 51.910 ACRES
WINDS OF GRACE SUBDIVISION
CUDDLE CREEK TOWNSHIP, IREDELL COUNTY, NC
OWNER: JONATHAN CORY INGRAM & KRISTEN F. INGRAM
YARBROUGH-WILLIAMS & HOUSE, Inc.
Planning • Surveying • Engineering
1" = 100'
08/26/21
RKW
251-71



AREA TABULATION	
CRAWL SPACE	2422 SF
MAIN LEVEL	2422 SF
UPPER LEVEL	1990 SF
TOTAL FINISHED	5992 SF
TOTAL LIVABLE	5992 SF
GARAGE	869 SF
FRONT PORCH	278 SF
REAR PORCH	420 SF

FLOOR AREAS ARE CALCULATED FROM THE OUTSIDE OF FOUNDATION WALLS AND/OR OUTSIDE FACE OF EXTERIOR STUD AT FRAMED WALLS.

STAIRS ARE INCLUDED IN CALCULATIONS AT ALL LEVELS.

GENERAL NOTES

- ALL WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALING OF DRAWINGS
- DIMENSIONS ARE FROM EXTERIOR FACE OF EXTERIOR STUD WALLS AND CENTERLINE OF INTERIOR PARTITIONS
- WHILE EVERY EFFORT HAS BEEN MADE TO ENSURE THESE PLANS ARE ACCURATE AND COMPLETE, THE OWNER/BUILDER MUST VERIFY ALL DIMENSIONS, CONSTRUCTION METHODS, SITE CONDITIONS AND SPECIFICATIONS AND BE RESPONSIBLE FOR SAME.
- ANY LOCATIONS OF SIZES OF STRUCTURAL MEMBERS SUCH AS FOOTINGS, FOUNDATION WALLS, POSTS, BEAMS, JOISTS, RAFTERS, TRUSSES ETC. THAT APPEAR ON THESE PLANS ARE FOR DESIGN REVIEW AND BIDDING PURPOSES ONLY. IT IS RECOMMENDED A PROFESSIONAL ENGINEER BE ENGAGED TO CALCULATE AND DESIGN ALL STRUCTURAL COMPONENTS INVOLVED IN THIS STRUCTURE.

WINDOWS

- MARVIN ESSENTIAL SERIES SHOWN
  - STYLE AND SIZE AS NOTED
- WINDOWS DESIGNATED WITH 'T' TO HAVE TEMPERED GLASS
- WINDOWS DESIGNATED WITH 'B' MEET EGRESS CODES
- WINDOW HEADER HEIGHTS MET TO 8'-1⅛" (ENTRY/GREAT ROOM)
- WINDOW HEADER HEIGHTS MET TO 7'-1⅛" (U.N.O.)
- BUILDER TO VERIFY WINDOW AND DOOR ROUGH OPENINGS AND HEADER HEIGHTS

FLOOR SYSTEM

- ENGINEERED WOOD FLOOR TRUSSES
  - DESIGNED TO MIL. L/480 DEFLECTION OR LESS
- TRUSS MANUFACTURER TO PROVIDE CHARTS FOR ALL SUPPLY AND RETURN DUCTWORK.
- TRUSS MANUFACTURER TO VERIFY FRAMING AT CANTILEVERS FOR POINT LOADS FROM ABOVE
- TRUSS MANUFACTURER TO VERIFY LOCATIONS OF ANY CONCENTRATED LOADS, SUCH AS GRANITE COUNTERTOPS, AND PROVIDE PROPER FRAMING AS NEEDED

FRAMING

- 10'-1⅛" PLATE HEIGHT (U.N.O.)
- 2X8 WALLS AT ALL POCKET DOORS
- PROVIDE SOLID BLOCKING AT ALL POINT LOADS
- ■ - INDICATES FRAMING POINT LOAD
  - PROVIDE CONTINUOUS SOLID BLOCKING TO FOUNDATION BELOW - VERIFY LOADS W/ LOCAL STRUCTURAL ENGINEER

+++ STRUCTURAL NOTICE +++

ALL STRUCTURAL BEAM AND HEADER SIZES, BEARING CONDITIONS AND ANCHORING REQUIREMENTS MUST BE REVIEWED BY A STRUCTURAL ENGINEER BASED ON EXISTING SITE CONDITIONS. OWNER/BUILDER TO ASSUME ALL RESPONSIBILITY FOR ENTIRE STRUCTURE.

ROYAL OAKS DESIGN
3459 Lake Elmo Ave
Lake Elmo, MN
651-964-2726
www.royaloaksdesign.com
CERTIFIED PROFESSIONAL BUILDING DESIGNER
NATIONAL COUNCIL OF BUILDING DESIGNERS & CERTIFICATION
Kieran J. Liebl 24-106

ROYAL OAKS DESIGN, INC. ASSUMES NO RESPONSIBILITY FOR ANY STRUCTURAL OR DIMENSIONAL ERRORS OR OMISSIONS THE CONTRACTOR AND/OR OWNER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL NOTES, DETAILS, ELEVATIONS, SECTIONS AND FLOOR PLANS AND NOTIFY ROYAL OAKS DESIGN, INC. OF ANY ERRORS PRIOR TO START OF CONSTRUCTION. ROYAL OAKS DESIGN, INC. ASSUMES NO RESPONSIBILITY FOR THE WORKMANSHIP OF THE SUB-CONTRACTORS.

CL-20-020
THE RUTH ANN
CRAWL SPACE
STD. 3-CAR SIDE

Please scan or visit www.royaloaksdesign.com to see more of our plans or to request modifications.

Document Date: 8/12/2021

Document Phase:

Drawn by: DML

ISSUE	DATE	REMARK
1	07/2/21	EDITS CO. SUB
1	08/4/21	EDITS - SRC

MAIN LEVEL FLOOR PLAN

4 **A2.2** 9

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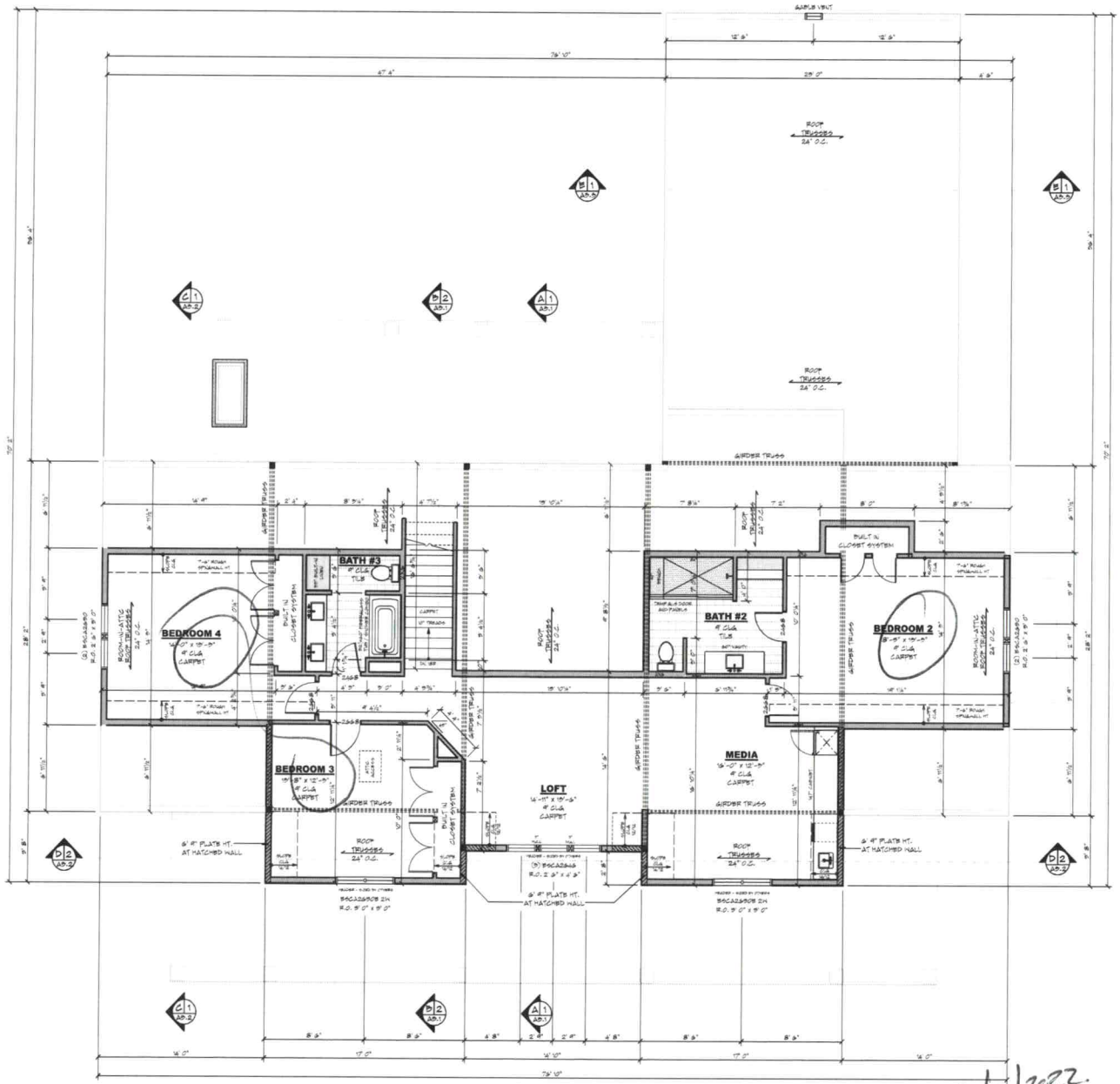
1 A2.2 **MAIN LEVEL FLOOR PLAN**

100% SCALE @ 36"x24" SCALE: 1/4" = 1'-0"

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BAB 1/6/2022



AREA TABULATION	
CRAWL SPACE	2422 SF
MAIN LEVEL	2422 SF
UPPER LEVEL	1850 SF
TOTAL FINISHED	3982 SF
TOTAL UNABLE	3982 SF
GARAGE	866 SF
FRONT PORCH	378 SF
REAR PORCH	450 SF

FLOOR AREAS ARE CALCULATED FROM THE OUTSIDE OF FOUNDATION WALLS AND/OR OUTSIDE FACE OF EXTERIOR STUD AT FRAMED WALLS.

STAIRS ARE INCLUDED IN CALCULATIONS AT ALL LEVELS.

GENERAL NOTES

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- DIMENSIONS ARE FROM EXTERIOR FACE OF EXTERIOR STUD WALLS AND CENTERLINE OF INTERIOR PARTITIONS
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WINDOWS

- MARVIN ESSENTIAL SERIES SHOWN
  - STYLE AND SIZE AS NOTED
- WINDOWS DESIGNATED WITH 'T' TO HAVE TEMPERED GLASS
- WINDOWS DESIGNATED WITH 'B' MEET EGRESS CODES
- WINDOW HEADER HEIGHTS SET TO 7'-0"/8'-0" (U.N.O.)
- BUILDER TO VERIFY WINDOW AND DOOR ROUGH OPENINGS AND HEADER HEIGHTS

FLOOR SYSTEM

- ENGINEERED WOOD FLOOR TRUSSES
  - DESIGNED TO MIN. L/480 DEFLECTION OR LESS
- TRUSS MANUFACTURER TO PROVIDE CHASES FOR ALL SUPPLY AND RETURN DUCTWORK
- TRUSS MANUFACTURER TO VERIFY FRAMING AT CANTILEVERS FOR POINT LOADS FROM ABOVE
- TRUSS MANUFACTURER TO VERIFY LOCATIONS OF ANY CONCENTRATED LOADS, SUCH AS GRANITE COUNTERTOPS, AND PROVIDE PROPER FRAMING AS NEEDED

FRAMING

- 6' 1-1/8" PLATE HEIGHT (U.N.O.)
- 2X6 WALLS AT ALL POCKET DOORS
- PROVIDE SOLID BLOCKING AT ALL POINT LOADS

■ - INDICATES FRAMING POINT LOAD
- PROVIDE CONTINUOUS SOLID BLOCKING TO FOUNDATION BELOW - VERIFY LOADS W/ LOCAL STRUCTURAL ENGINEER

+++ STRUCTURAL NOTICE +++

ALL STRUCTURAL BEAM AND HEADER SIZES, BRACING CONDITIONS AND ANCHORING REQUIREMENTS MUST BE REVIEWED BY A STRUCTURAL ENGINEER BASED ON EXISTING SITE CONDITIONS. OWNER/BUILDER TO ASSUME ALL RESPONSIBILITY FOR BUYER'S STRUCTURE.

ROYAL OAKS DESIGN
3459 Lake Elmo Ave
Lake Elmo, MN
651-964-2726
www.royaloaksdesign.com
CERTIFIED PROFESSIONAL BUILDING DESIGNER
NATIONAL COUNCIL OF
Kieran J. Lield 24-106

ROYAL OAKS DESIGN, INC. ASSUMES NO RESPONSIBILITY FOR ANY STRUCTURAL OR DIMENSIONAL ERRORS OR OMISSIONS WHICH MAY BE CONTAINED IN THESE PLANS. WE ARE NOT RESPONSIBLE FOR THE VERIFICATION AND CHECKING OF ALL NOTES, DETAILS, ELEVATIONS, SECTIONS AND FLOOR PLANS AND NOTIFY ROYAL OAKS DESIGN, INC. OF ANY ERRORS PRIOR TO START OF CONSTRUCTION. ROYAL OAKS DESIGN, INC. ASSUMES NO RESPONSIBILITY FOR THE WORKMANSHIP OF THE SUBCONTRACTORS.

CL-20-020
THE RUTH ANN
CRAWL SPACE
STD. 3-CAR SIDE

Please scan or visit www.royaloaksdesign.com to see more of our plans or to request modifications.

Document Date: 8/12/2021

Document Phase:

Drawn by: DML

ISSUE	DATE	REMARK
1	07/2/21	EDITS CU, AJR
1	08/9/21	EDITS - DRC

UPPER LEVEL FLOOR PLAN

BAB 1/6/2022.

1 A2.3 **UPPER LEVEL FLOOR PLAN**

100% SCALE @ 36"x24" 0' 2' 4' SCALE: 1/4" = 1'-0"

5 **A2.3** 9

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RECEIVED DEC 0 2 2021

APPLICATION MUST BE FILLED OUT COMPLETELY & BE LEGIBLE
OR IT WILL NOT BE PROCESSED

Dresden Law

Iredell County Health Department – Environmental Health Division $500.00

PAGE 1: *APPLICATION FORM* AP-322798

Application For: (X) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
( ) 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.

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

The following optional attachments may also be submitted: (X) 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: Cory Ingram **Address:** 16250 Loch Raven Rd. **Zip:** 28078
Applicant Email: coryi@sitetec.com **Phone:** 704.315-7164 **Alt. Phone:**
Owner Name: Jonathan Cory Ingram **Address:** SAME AS ABOVE **Zip:**
Owner Email: coryi@sitetec.com **Phone:** SAME AS ABOVE **Alt. Phone:** 910.297-4577

Property Information:

Street Address: 174 Country Brook Ln Mooresville NC 28115
Subdivision Name: Winds of Grace **Section/Phase:** **Lot Number:** 3
Driving Directions: Mooresville Road (Hwy 3) to Country Brook Ln.) End of gravel Rd.

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

Maximum Number of Bedrooms: 5
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

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 (3) Alternative (1) Conventional ( ) Innovative (2) 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.

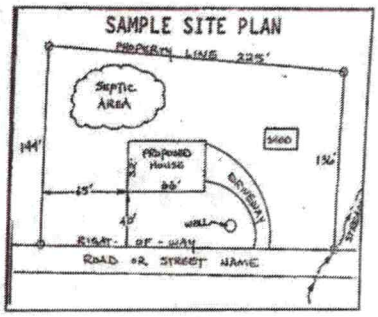
Signature: _____ 9/30/21
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) **DATE**

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:

- ( ) **Property Line measurements are clearly identified**
- ( ) **All proposed structures are indicated**
- ( ) **Front and side setbacks from property line**
- ( ) **Preferred driveway location and well location**
- ( ) **Area you prefer your septic system to be placed**
- ( ) **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 PLOT PLAN

Signature: JCA

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

12/2/2021

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, Jonathan Cory Ingram, am the legal owner(s) of the property located at 174 Country Brook Ln, Mooresville NC, identified as PIN (Parcel Identification Number) 4674-17-2428, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) _____,

_____, 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.

_____ 9/30/21
Signature of Owner(s) Date

Mooresville - Environmental Health
Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

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

ENVIRONMENTAL HEALTH REQUIREMENTS for SEPTIC and WELL PERMITS

The following items must be completed *PRIOR* to the *SUBMITTAL* of any Environmental Health Application. Incomplete applications will be returned to the applicant and cannot be processed or placed on the work list.

*** Initial all lines below to indicate you have submitted each form and completed every site requirement ***

Complete all Environmental Health forms:

- ✓ Application
- ✓ Site Plan including the dimensions of proposed structure, addition, pool etc.
- ✓ Documentation to Authorize Owner Agent (even if the property owner is the applicant – complete section 1 or 2)
- ✓ Copy of Zoning Permit when applicable
- ✓ Sign this sheet after you have completed all items

Lot must be cleared of heavy undergrowth. In order to evaluate the lot, the footprint of the proposed structure must be visible. Adequate area for the septic drain field and repair area must be sufficiently cleared of heavy undergrowth, with 50 feet of visibility in all directions. Inspectors must be able to evaluate the property, shoot laser level elevations, layout the drain field, do soils work, etc. **If the lot is not cleared sufficiently, then a $100 site revisit fee will be charged and the evaluation will be put on HOLD until the requirement is met.**

Clearly mark all property corners by locating existing iron or concrete markers. Flag all property lines every 25 feet if adjacent corners are not visible when standing on any given corner. Property lines must be flagged by a licensed NC surveyor & easily identified **prior to application submittal** (exception may apply for septic repair evaluations only). 'Mow lines' and/or fence lines do NOT constitute marked lines. **If the property lines are not properly marked when the lot is ready to be evaluated, then the application will be put on HOLD and a $100 site re-visit fee charged.**

Stake or flag the footprint of the proposed structure, addition, pool etc. to match the site plan submitted. The proposed structure, etc. must be staked out on the property as per the site plan.

If an Authorization to Construct (AC) is desired, submit a recorded copy of the plat for newly created or subdivided lot(s) and a LEGIBLE copy of the basic floor plan no larger than 8 ½" x 14" for each floor of the structure including decks, porches, etc. **The overall dimensions must be clearly noted & the rooms labeled.**

Any site not meeting the above requirements when staff arrives for the evaluation will result in a $100 site revisit fee being charged and the request being placed on HOLD. This will delay the processing of the application. *Once work by Environmental Health staff begins, the up-front fees paid toward securing any health department permit are nonrefundable. Refunds for work not started, due to a customer changing their mind or plans, are subject to an administrative fee of $50 to defray a portion of the costs of processing the refund.*

Backhoe pits are required for all applications that require a soils evaluation.
DO NOT DIG PITS UNTIL THE EH SPECIALIST HAS AUTHORIZED AND SCHEDULED YOUR EVALUATION TIME.

- **All utilities shall be marked before pits are dug. Call NC 811 for this service.**
- The applicant/agent is responsible for securing these services
- Backhoe pits are to be dug at the locations and depths determined by the Environmental Health Specialist or a NC Licensed Soil Scientist. A minimum of four pits must be dug.
- The EH specialist will contact you when your application is ready to be processed for pit scheduling.
- Your backhoe operator must be on site during the EH Specialist's evaluation to prevent your operator from having to return to the property for additional work.

By signing below, I am acknowledging the above specifications have been met and the site is READY to be evaluated AND I understand the backhoe pit requirement and will secure those services (if applicable).

Signature _____ **Date** 9/30/21

Questions? Contact the Environmental Health Offices below:

Statesville Office
349 North Center Street (2nd Floor Building Standards)
Statesville, NC 28677-4063
Phone: (704)878-5305 ext. 3456

Mooresville Office
610 East Center Avenue (2nd Floor Govt. Center South)
Mooresville, NC 28115-2548
Phone: (704)660-3625

Permit Search

Search By: ADDRESS Contains

Click here for search examples

Permit #AP-322798

Add To Cart Inspections

Permit Info | Site Info | Contacts (2) | Fees $226.60 | Inspections(16) | Chronology (0) | Conditions (0) | Revi

Type: BUILDING RESIDENTIAL
Subtype: SINGLE FAMILY NEW
Description of Work: SFD
Status: ZONING APPROVED
Applied Date: 11/3/2021
Approved Date: 11/3/2021
Issued Date:
Finaled Date:
Expiration Date:
Notes: 11/3/2021 9:00:04 AM I contacted Kathy Wolfe-Iredell County flood plain management -no additional set backs or pla

Attachments:

322798 ZD.pdf 322798 ZD.pdf
322798 ZO.pdf 322798 ZO.pdf

11/30/2021
8:36 PM

Iredell County Inspections Department

Permit No. AP-322798 **Permit Type** BUILDING RESIDENTIAL **Site Address** 174 COUNTRY BROOK LN MOORESVILLE, NC 28115

Applied 11/03/2021
Approved 11/03/2021
Issued
Parent Permit No.

Applicant
Owner INGRAM JONATHAN C+KRISTEN F
Contractor
Description SFD
Notes

Date of Inspection	Inspection Type	Inspector	Result	Remarks	Notes
	COMPLETE PERMIT**				
	BLDG FINAL CERT OF COMP				
	CERT OF OCCUPANCY				
	ENERGY ENVELOPE				
	FOOTING				
	FOUNDATION				
	FRAMING				
	GARAGE PORCH SLAB				
	GRADING RES				
	INSULATION				
	LOCATION SETBACKS				
	SAW SERVICE				
	SHEATHING AND FLASHING				
	SHOWER PAN				
	SLAB				
	TEMPORARY POWER				

IREDELL COUNTY · NC

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

APPLICATION NUMBER
322798 Issue Date:

Permit Type: ZONING

Parcel Number	Street Address	Jurisdiction
4674172428.000	174 COUNTRY BROOK LN	Iredell County

Owner Information	Applicant Information
Name: INGRAM JONATHAN C+KRISTEN F	Name: INGRAM JONATHAN C+KRISTEN F
Address:	Address:
,	,
Phone:	Phone: (704)315-7164

Use Requested	Zone Code
Single Family Dwelling	RA

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
17.97	35	35	15	15		YES

Remarks
SFD//need zd

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: 11/03/2021

Signature of Owner/Contractor

Permit Number	322798	TOTAL FEES:	

IREDELL COUNTY PLANNING & DEVELOPMENT
PO BOX 788, STATESVILLE NC 28687-0788
349 N. Center Street / Building Standards Center
(704) 878-3118 / FAX (704)878-3171

Residential Zoning Permit Application

What are you building?(Please check) ***No building or addition shall be used for commercial, business, or other non-residential use unless appropriate permits and approval are obtained from Iredell County for commercial use.**

Stick built ✓ Modular___ Duplex___ Singlewide___ Doublewide___ Pier___ Addition___ Bedroom addition___

Accessory dwelling (ie: M-I-L Suite, guest house) ___ Accessory building (ie: garage, shed)___ Swimming pool___

Are there any other structures currently on the property such as dwellings, sheds, garages? (Please list type below)
NO

Is there a septic tank on the property? Yes (No) If residence how many bedrooms? 4 and stories? 2

Please describe project (Details, Purpose, or Use): New Construction - Crawl space House

Please list square footage of project (Pier, Addition, Accessory Dwelling, Accessory Building only): 4000 SF

Does the property have community water? Yes (No) If yes, please list who provides it: _____

Does the property have community sewer? Yes (No) If yes, please list who provides it: _____

Owner Information

Property Owner's Name Jonathan Cory Ingram Phone # 704.315-7164

Owner's Current Address 16230 Loch Raven Rd. Huntersville NC 28078

Property Information

Property Address 174 Country Brook Ln Mooresville Parcel # 4674-17-2428

Subdivision: Winds of Grace Lot: 3 Zoning: RA Watershed: Y / (N) Flood Plain: Y / (N) Township: Coddle Crk

Directions to property (from a MAIN ROAD) Hwy 3 (Mooresville Rd) to Country Brook Ln. End of gravel road

Application Information

Applicant's Name or Company Jonathan C. Ingram Applicant's Phone # 704.315-7164

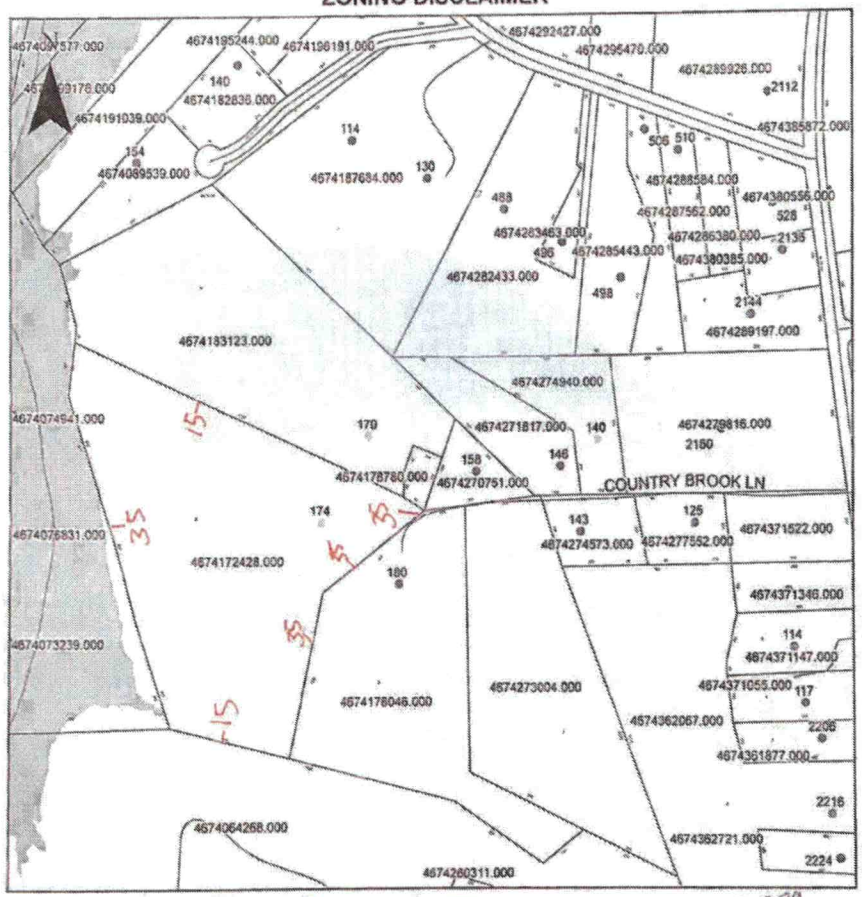
Applicant's Address 16230 Loch Raven Rd. Huntersville NC 28078

If Company, Representative's Name and Title _____

IN APPLYING FOR A ZONING PERMIT I CERTIFY THAT ALL INFORMATION ON THIS APPLICATION IS CORRECT AND THAT ALL WORK WILL COMPLY WITH IREDELL COUNTY ZONING REGULATIONS. THE IREDELL COUNTY PLANNING & DEVELOPMENT DEPARTMENT WILL BE NOTIFIED OF ANY CHANGES THAT ARE MADE TO THIS PROJECT. I AM AWARE THAT THIS IS AN APPLICATION ONLY - NOT A PERMIT - AND DOES NOT CONSTITUTE APPROVAL OF THIS PROJECT. HOWEVER, IF THIS PROJECT IS APPROVED, THIS SIGNATURE IS VALID FOR MY PERMIT.

SIGNATURE OF APPLICANT _____ DATE 9/30/21

ZONING DISCLAIMER



Property Address 174 Country Brook Ln.

17,979
RA
Yes

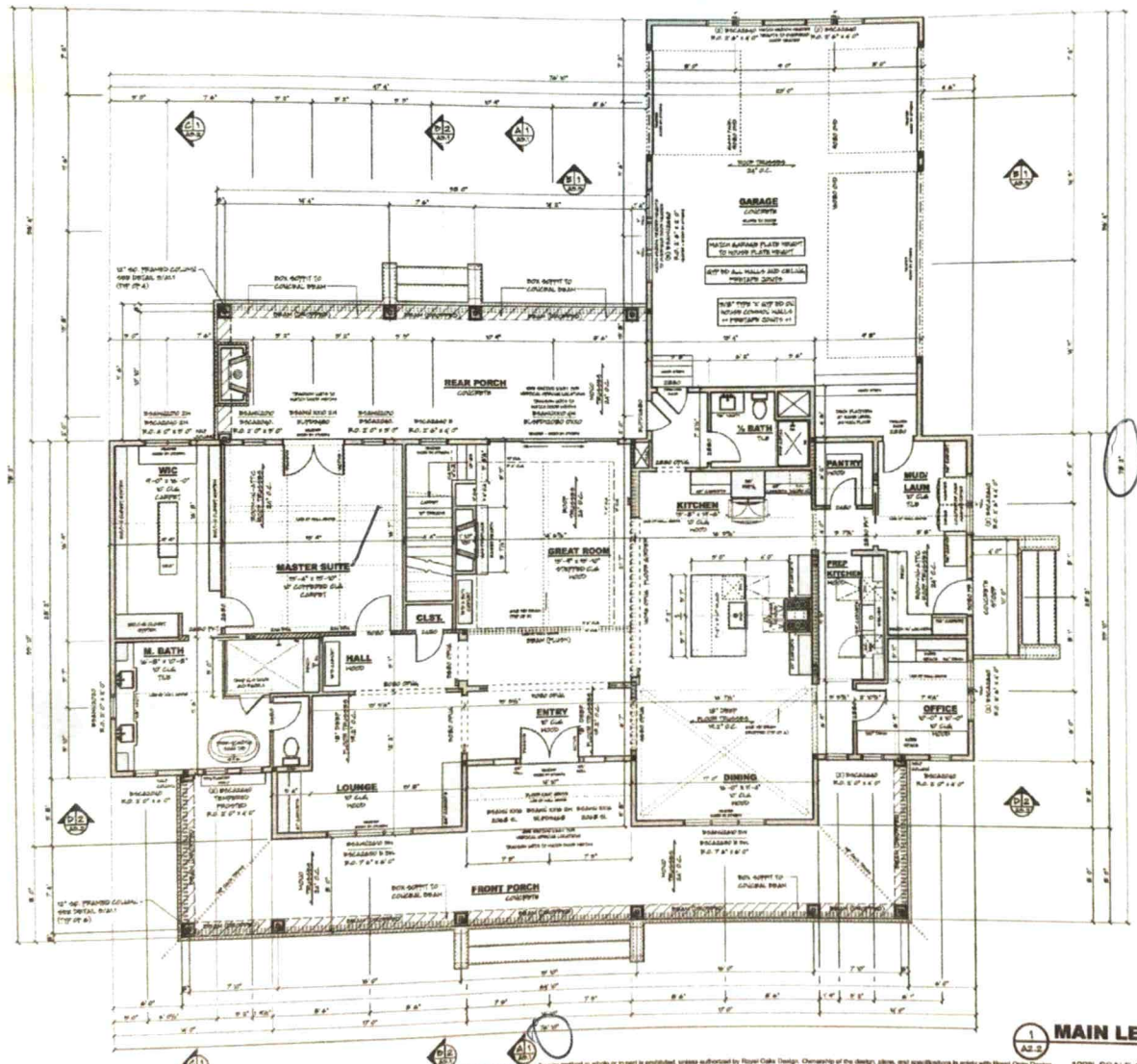
The applicant certifies that there are no deed restrictions, contractual agreements or governmental regulations of any kind that interfere with or prohibit the use of the property or the use for which this permit is requested. Applicant further acknowledges that the enforcement of deed restrictions,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

JC

Applicant

11/3/2021

Date



MAIN LEVEL FLOOR PLAN

1/4" = 1'-0"

100% SCALE @ 36"x24"

AREA TABULATION	
CRAWL SPACE	SQ.FT.
MAIN LEVEL	SQ.FT.
UPPER LEVEL	SQ.FT.
TOTAL FINISHED	SQ.FT.
TOTAL UNFINISHED	SQ.FT.
GARAGE	SQ.FT.
FRONT PORCH	SQ.FT.
REAR PORCH	SQ.FT.

FLOOR AREAS ARE CALCULATED FROM THE OUTSIDE OF FOUNDATION WALLS &/OR OUTSIDE FACE OF EXTERIOR STUD AT FRAMED WALLS.

STAIRS ARE INCLUDED IN CALCULATIONS AT ALL LEVELS.

GENERAL NOTES

- ALL WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALING OF DRAWINGS.
- DIMENSIONS ARE FROM INTERIOR FACE OF INTERIOR STUD WALLS AND CENTERLINE OF BEARING PARTITIONS.
- HOME BUYER SHOULD CAREFULLY REVIEW THESE PLANS. THESE PLANS ARE ACCURATE AND COMPLETE. THE CONTRACTOR MUST VERIFY ALL DIMENSIONS, CONSTRUCTION METHODS, SITE CONDITIONS AND SPECIFICATIONS AND BE RESPONSIBLE FOR SAME.
- ANY NOTATIONS OR NOTES OF STRUCTURAL NATURE SUCH AS FOOTING, FOUNDATION, WALL, POSTS, BEAMS, JOISTS, RAFTERS, TRUSSES ETC. THAT APPEAR ON THESE PLANS ARE NOT INTENDED FINISH AND SHOULD NOT BE USED. IT IS RECOMMENDED A PROFESSIONAL ENGINEER BE RETAINED TO CALCULATE AND DESIGN ALL STRUCTURAL COMPONENTS UNIQUE TO THIS STRUCTURE.

FOUNDATIONS
- MANUAL STRUCTURAL VERIFICATION
- LOCATE AND SIZE AS NOTED
- MASONRY FOUNDATION WALLS TO BE 12" THICKENED SLAB
- MASONRY FOUNDATION WITH 16" MINIMUM FOOTING WIDTH
- MASONRY FOUNDATION HEIGHTS SET TO 8'-0" UNFINISHED ROOM)
- MASONRY FOUNDATION HEIGHTS SET TO 7'-0 5/8" (GARAGE)
- PROVIDE TO VERIFY HEIGHTS AND WIDTH PRIOR TO FRAMING AND MASONRY HEIGHTS

FLOOR SYSTEM
- ENGINEERED WOOD FLOOR TRUSSES
- DESIGNED TO INCLUDE DEFLECTION OF LESS
- TRUSS MANUFACTURER TO PROVIDE DRAWING FOR ALL SUPPLY AND RETURN PLENUMS.
- TRUSS MANUFACTURER TO VERIFY FRAMING AT CANTILEVERS WITH POINT LOADS FROM ABOVE
- TRUSS MANUFACTURER TO VERIFY LOCATIONS OF ANY CONCENTRATED LOADS, SUCH AS SPLASH COUNTERTOPS, AND PROVIDE PROPER FRAMING AS NEEDED

FRAMING
- 92 5/8" PLATE HEIGHT (MAIN)
- DBA WALLS AT ALL FRONT DORMS
- PROVIDE SOLID BLOCKING AT ALL POINT LOADS
- LOCATION FRAMING POINT LOAD
  - PROVIDE CONTINUOUS SOLID BLOCKING TO FOUNDATION BELOW - VERIFY LOADS W/ LOCAL STRUCTURAL ENGINEER

*** STRUCTURAL NOTICE ***

ALL STRUCTURAL BEAM AND HEADER SIZES, BEARING CONDITIONS AND ALL STRUCTURAL REQUIREMENTS MUST BE PREPARED BY A STRUCTURAL ENGINEER BASED ON EXISTING SITE CONDITIONS. CONTRACTOR TO ASSURE ALL RESPONSIBILITY FOR BUILDING STRUCTURE.

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CRAWL SPACE
STD. 3-CAR SIDE

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Document Date: 8/12/2021
Document Phase:
Drawn by: DHL

MARK	DATE	REMARKS
1	07/23/21	BOC'S DA, ADD
2	08/12/21	BOC'S - DHL

MAIN LEVEL FLOOR PLAN

4 **A2.2** 9

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