ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # AP 319542

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

PIN # 3783 -- 43 -- 5663

APPLICANT/OWNER: Cornerstone III Properties. APPLICANT ADDRESS: 259 Textile Way Ft Mill SC 29715

SITE ADDRESS: 145 Pumice Lane Statesville NC 28625 PHONE: 704-301-3229 ALT. PHONE —

SITE DIRECTIONS: Walnut Tree left on Pumice. SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Riverside Rock ✓ SECTION: 2 LOT # 8 ✓ LOT AREA: .87 Ac DESIGN FLOW: 480 L.T.A.R.: .316

Septic Tank 1000 (gal) STB 760 Date 4/13/22

Pump Tank 1000 (gal) PT 363 Date 5/2/22

Pump Make — Model — Serial # —

Nitrification Fields 1 # Lines 5 Linear Ft 380

Trench Width 36 in. Trench Bottom Depth (Lowside) 30 in max Gravel Depth —

☒ New System ☐ Repair ☐ Expansion System Type: I II ☒ III IV V VI

System Description: PM-25% Reduction

Repair System Description: 50% Reduction

Maintenance Agreement Required: ☐ YES ☒ NO

☐ GRAVITY ☒ PRESSURE

☒ Residence No. Bedrooms 4

☐ Business No. Persons 8

☐ Other No. Employees —

☐ Slab ☒ Crawl Space

☐ Basement w/ plumbing ☐ Basement w/o plumbing

Water Supply: ☐ Private ☒ Public ☐ Community

Comments / Conditions:

INITIAL SITE SKETCH

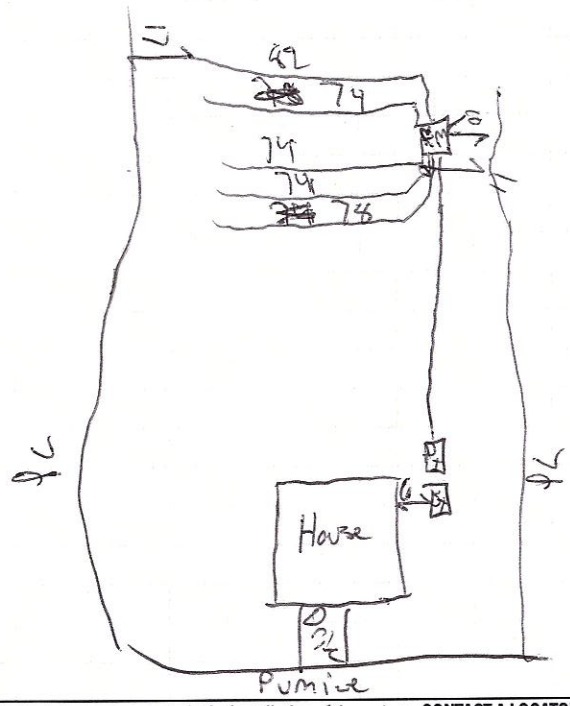
This permit is issued pursuant to Section 11 . (C) of S.L. 2018-114 using the signed and sealed LSS Evaluation by:

Three Oaks Engineering

LSS # 1219 David Moore 17, 2022

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.



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.*

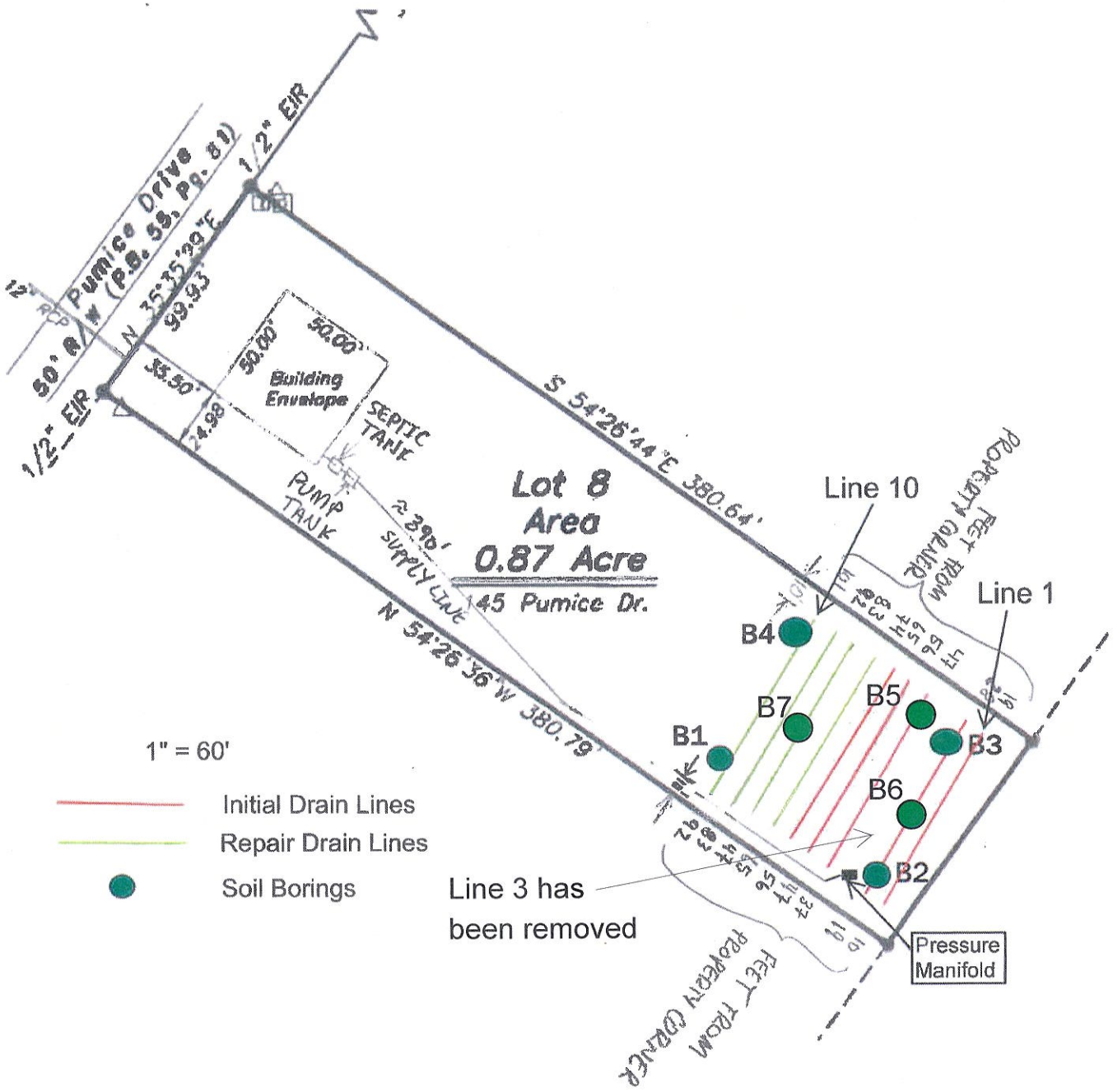
Owner / Applicant Signature: Date: 5-26-22 Installed by: Lentz Wastewater

IMPROVEMENT PERMIT by: Benjamin H Beck Date: 5-18-2022 OPERATION PERMIT by: Burnett C. White Date: 6-27-2022

AUTHORIZATION TO CONSTRUCT by: Benjamin H Beck Date: 5-18-2022 Existing System Inspected by: Date:

FOR SEPTIC FINAL INSPECTION: CALL 704-664-3703 between 8am-9am the day the inspection is needed.

Figure 1. 145 Pumice Drive



DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

3783-43-5613 PROPERTY ID #:
COUNTY: IREDELL

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

OWNER: KAY M. + ANGELA M. OWENS
ADDRESS:
APPLICATION DATE
DATE EVALUATED: 6-3-21
PROPOSED FACILITY: RES
PROPOSED DESIGN FLOW (.1949): 480
PROPERTY SIZE: 0.87 AC
LOCATION OF SITE: 145 PUMICE DR STATESVILLE, NC
PROPERTY RECORDED:
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)		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	
1	LS/9	0-9	GR/CL	FR/SEXP, SS, SP	–	>40"	–	–	PS 0.316
		40+	SBK/C	FI/EXP, S, P					
2	R/3	0-8	GR/CL	FR/SEXP, SS, SP	–	49"	49"	–	PS 0.316
		8-49	SBK/C	FI/EXP, S, P					
		49+	WX/CL	FR/NS, NP					
3	R/3	0-30	SBK/C	FI/EXP, S, P	–	>40"	–	–	PS 0.316
		40+	SBK/SCL	FI/SEXP, SS, SP					
4	LS/9	0-14	GR/SCL	FR/NEXP NS, NP	–	>40"	–	–	PS 0.316
		14-27	SBK/C	FI/EXP, S, P					
		40+	SBK/SC	FI/SEXP, SS, SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	ACCEPTED	H-PPBPS
Site LTAR	0.316	0.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PROV. SUITABLE
EVALUATED BY: M. WOOD
OTHER(S) PRESENT:

LICENSED SOIL SCIENTIST MICHAEL G. WOOD 1219 STATE OF NORTH CAROLINA

Updated February 2014

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

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

145 PUMICE

PROPERTY ID #: 3783-43-5663
DATE OF EVALUATION: 5-13-22
COUNTY: IREDELL

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
5	R/3	0-9	GR/SL/VFR	NS, NP, NE	-	>46	-	-	PS 0.316
		9-46+	SBK/C-CL/FR	SS, SP, SE					
6	R/3	0-21	SBK/C/FI	SS, SP, SE	-	>46	-	-	PS 0.316
		21-46+	SBK/CL/FR	SS, SP, SE					
7	LS/9	0-9	GR/SL/VFR	NS, NP, NE	-	>46	-	-	PS 0.316
		9-46+	SBK/C/FR	SS, SP, SE					

COMMENTS:

Residential Subsurface Wastewater Treatment and Disposal System Proposal

for

145 Pumice Drive
Iredell County, NC

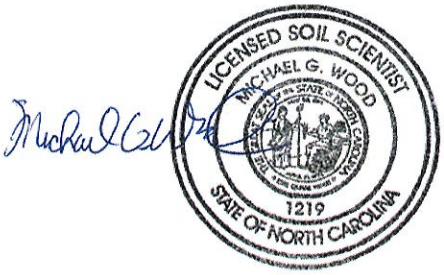
PIN #3783-43-5663
March 17, 2022

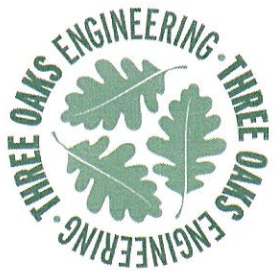
Prepared for:

Stan W Pressley
Cornerstone III Properties
704-301-3229
Stan@cornerstone3p.com

Prepared by:

Michael G. Wood, LSS
Three Oaks Engineering
324 Blackwell Street, Suite 1200
Durham, NC 27701
Phone: 919-732-1300





The 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).

SL-2018-114 LSS Evaluation

145 PUMICE DRIVE

The 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).

Stan Purdy 6/15/21

Owner's Signature Date

Owner's Legal Representative Signature Date

Michael G. Wood June 15, 2021

LSS Signature Date

Michael G. Wood

LICENSED SOIL SCIENTIST
MICHAEL G. WOOD
1219
STATE OF NORTH CAROLINA

*Septic installer must be preapproved by Three Oaks Engineering, Inc.
*Septic drainfield area must be protected from construction traffic and grading throughout the life of the project. Orange barrier fencing is recommended to protect the septic drainfield area.

Cornerstone III Properties has contracted with Three Oaks Engineering, Inc. (Three Oaks) to prepare Session Law 2018-114 Section 11 (c) septic proposal for a new 4-bedroom single family residence to be located at 145 Pumice Drive, Iredell County, North Carolina (Iredell County Parcel Number: 3783-43-5663).

Based upon a soils investigation performed by Three Oaks, it has been determined that a sufficient amount of "Suitable" Group IV soils is available for the installation of a **Pump to Pressure Manifold "Accepted System"** for the initial system at a 0.316 GPD/ft. sq. long term acceptance rate (LTAR). The repair system will be a Horizontal – Prefabricated Permeable Block Panel System with an LTAR of 0.300

Cornerstone Properties requests that Iredell County Environmental Health (ICEH) issue the appropriate permits for a subsurface wastewater treatment and disposal system based upon the following proposal and the enclosed Licensed Soil Scientist Evaluation. This LSS Evaluation is being submitted pursuant to and meets the requirements of SL 2018-114 Section 11. (c).

Location

From Statesville, take I-40 west to Exit 141. Take a right off ramp then next left onto Walnut Tree Road. Tomlin Mill Road and then left where it ends on Jennings Road. In 1.1 miles, take left onto Pumice Drive. 145 Pumice Drive is on the left in 0.2 mile.

References

Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A, Section .1900, December 6, 2018.

Primary Investigator's Credentials

NC Licensed Soil Scientist No. 1219
NC Licensed Soil Scientist No. 1340

Plans and Specifications

A. Septic Tank

1. The septic tank shall be State approved (Section .1953 of 15A NCAC 18A), watertight, structurally sound, and 1,000 gallons in capacity.
2. The septic tank will be fitted with an approved effluent filter and riser for easy access and periodic maintenance.
3. It is the responsibility of the septic contractor to thoroughly inspect the septic tank prior to accepting delivery to assure that the tank has had time to properly cure and is free of cracks or other structural deficiencies.

B. Pump Tank

1. The pump tank shall be State approved, of one-piece construction, watertight, structurally sound and 1,000 gallons capacity. Again, it is the responsibility of the septic tank contractor to thoroughly inspect each pump tank prior to accepting delivery.
2. All pipe penetrations into the tank shall be booted (i.e., C-293 boot with a stainless-steel strap).
3. The pump tank shall have access risers that extend, at a minimum, 6 inches above finished grade and must have less than 36 inches of fill over its top once finished grade has been established (a reinforced concrete tank will be required if finished soil cover is 36 inches or greater in depth).
4. Floats, pump and control circuits, and the control panel shall meet the requirements of Rule .1952(c). Panel and control equipment shall include lightning protection, be protected from unauthorized access, and always remain accessible to the system operator.
5. The pump and alarm controls shall be provided with manual circuit disconnects within a watertight, corrosion resistant, NEMA 4x rated control panel. The control panel must be securely mounted outside, adjacent to the pump tank riser and at a minimum of 12 inches above finished grade. Pump and float control wiring should be long enough to reach from the tank to the control panel without splicing, routed through wire conduit, and sealed at the openings within the pump tank as well as the control panel enclosure. It is paramount that the conduit is properly sealed to prevent the escape of flammable gases from the pump tank. Furthermore, there must be two electrical circuits for the pump tank controls: one for the pump and one for the alarm controls.
6. Float switch tie downs must be made of a corrosion resistant material (per OWPS, all metal in the tanks shall be stainless steel). Floats should be mounted on a separate "float tree" rather than the pump supply line (see pump tank detail).
7. The pump removal system will be via a pump tether made of nylon rope or its equivalent. The tether material should be resistant to mildew and rot.

C. Pipes and Fittings

1. All discharge piping, connectors and supply lines should be made of SCH 40 PVC.

2. All joints must be properly "welded" utilizing the appropriate PVC cement for each application.
3. The supply line from the pump tank to the pressure manifold shall be 2-inch Schedule 40 PVC (approximate length of supply line is 390 feet).
4. There shall be a threaded PVC union above each pump to facilitate easy removal of the pumps for maintenance or replacement.

D. Distribution Method – Pressure Manifold

1. A pressure manifold shall be used to distribute wastewater to five drainlines.
2. The pressure manifold shall be contained within an adequately sized box/vault that will allow future repair lines to be installed and is designed to allow for drainage of effluent that may accumulate in it during flushing and head pressure adjustments. The box should be placed upon a gravel base.
3. A gate valve shall be provided at the pressure manifold box to allow for final pressure adjustment (2 foot of head pressure as per design).
4. The pressure manifold shall be constructed of SCH 80 PVC.
5. There shall be 5 taps (1/2-inch SCH. 40 PVC - direct thread or saddle).
6. The connecting pipe between the pressure manifold taps and the drainfield shall be constructed of PVC.

E. Drainfield Installation

1. The drainfield and the proposed septic tank location have been marked on-site utilizing metal stemmed flags. Once this area has been approved by the County, the property owner/builder should mark this area and isolate it as much as possible from construction traffic. Prior to the system installation, the septic contractor shall contact the County for a preconstruction conference at which time the drainfield area will be re-verified.
2. Under no circumstances shall any construction take place within the drainfield area while the soil is in a wet condition. If the installer has doubts as to whether or not the drain field area is dry enough to begin construction, the environmental health specialist for this area should be contacted for permission to proceed with the installation.
3. The specified system is a Type III-B pump to pressure manifold to gravity flow to "Accepted" drainline.
4. The initial drain field consists of five (5) lateral trenches 3 feet wide by 76 feet in length.
5. **The lateral trenches are NOT to be constructed on contour with the land, rather exact distanced from the rear property line as shown in Figure 1.** The bottom of each trench being excavated shall be level from **beginning to end starting from the left side property line**. The use of a tripod mounted engineer's level is essential to assure that each trench is constructed as level as possible.
6. The minimum trench depth for this system shall be **22 inches, details noted below**. Each trench shall be placed on a minimum of 9-foot on centers.

Initial Drainline Trench Depths					
Field Line #	Color	Initial/Repair	Field Length	System Length	Left Property Line Drainline Depth
1	O	Initial	80	76	30
2	R	Initial	80	76	22
3	W	Initial	80	76	30
4	B	Initial	80	76	30
5	O	Initial	80	76	30

Initial & Repair Systems - 145 Pumice Drive								
Field Line #	Color	Initial/Repair	Field Length	System Length	Back Left	Back Right	Elev Dif (ft)	Relative Elevation
0	B	Not Used	42	-	8			
1	O	Initial	80	76	6.95	6.95	0	101.75
2	R	Initial	80	76	6.15	6.9	0.75	102.55
~~3~~	~~W~~	~~Initial~~	~~80~~	~~80~~	~~5.7~~	~~5.4~~	~~-0.3~~	~~103.00~~
4	B	Initial	80	76	5.5	5.7	0.2	103.20
5	O	Initial	80	76	5.95	5.5	-0.45	102.75
6	R	Initial	80	76	6.55	6.55	0	102.15
7	W	Repair	80	67	7.3	7.3	0	101.40
8	B	Repair	80	67	8.6	8.55	-0.05	100.10
9	O	Repair	80	67	9.55	9.7	0.15	99.15
10	R	Repair	80	67	10.9	10.8	-0.1	97.80
				Proposed Pump Tank (Pink Pin Flag)	6.95	13.7		101.75
				EIP at back left corner	8.7			100

F. Proper Operation Check

1. After all components of the wastewater disposal system have been installed and connected, the system shall be checked for proper operation.

G. Final Landscaping

1. The drainfield shall be shaped to shed rainwater and be free from low spots.
2. The entire area of the drainfield should be planted with grass as soon as possible to prevent erosion. The soil should be properly tilled, limed (if necessary) and fertilized prior to planting. After applying grass seed, the area should be heavily mulched with straw or other suitable material.

H. Utility/Drive Conflicts

1. The builder and property owner must take special care in planning for utilities (water, power, gas, telephone, cable lines, etc.). All utilities shall be kept clear of the septic system and its proposed repair area. Improper planning for underground utilities can negatively impact the installation and, in some cases, cause irreparable damage and permit revocation.
2. Water lines must be kept at least ten (10) feet from any portion of the septic system.
3. Irrigation systems should not be placed in the drain field area.

Maintenance

I. Operation and Maintenance

The designed system is classified as a Type III-B wastewater treatment and disposal system and does not require ongoing maintenance via a person certified (Certified Subsurface System Operator) by the North Carolina Department of Environment and Natural Resources to operate subsurface wastewater systems (Section .1961 Maintenance of Sewage Systems). However, the following maintenance should be considered by the owner.

1. The septic tank shall be pumped out when the solids within the septic tank reach an elevation that is equivalent to 25% of the volume of the tank. In some situations, the tanks may need to be pumped more frequently; for example, if you are using a garbage disposal, it is recommended that the septic and pump tanks be cleaned out annually.
2. The effluent filters should be inspected semi-annually. When it becomes necessary to clean the effluent filters, the filters should be removed and the accumulated debris washed back into the septic or pump tank – not onto the lawn.
3. All piping and valves should be inspected semi-annually for damage and corrections/repairs made immediately.
4. The drain field area should be maintained to prevent overgrowth of vegetation. Any damp areas, leakages or malfunctions should be addressed immediately.
5. Divert gutter downspouts and surface water runoff away from the septic and pump tanks.

J. Suggestions to the Homeowner

1. A garbage disposal is not recommended. The ground up garbage adds large amounts of solids into a septic tank that tend to degrade at a very slow rate.
2. Grease, cooking oils, coffee grounds and non-degradable solids (disposable diapers, cigarettes and solid paper wastes) should never be put into a septic tank.
3. Used motor oil or any oily liquids should not be disposed of in a septic tank.
4. Be aware of the amount of water that you are using in your home. Water saving fixtures and devices can be installed on sinks, toilets and showers to reduce the volume of wastewater that you are sending to your drain field.
5. Run dishwashers and washing machines only when you have a full load.
6. Repair leaky faucets and toilets. Small drips equal large volumes of water over time and can over burden your drain field.
7. Do not use chemical additives in your system. Studies have indicated that they do not increase the biological activity that naturally occurs in the septic system and in some cases certain additives have been found to be detrimental to the life of a system.

Initial System Design Specifics

Daily Design Flow:	480 GPD 4-bedroom house
Septic Tank Size:	1,000 Gallons (minimum)
Pump Tank Size:	1,000 Gallons (minimum)
Effluent Loading Rate:	0.316 GPD per sq. ft.
Drainfield Type:	Accepted System (25% Reduction)
Maximum/Minimum Trench Depth:	30/22 Inches
Supply Size:	2 Inch
Supply Line Length:	Approximately 390 feet
Number of Drainlines:	5
**Drain Lines:	(5) 3' Wide x 76' Long
**Drainline Spacing:	9 Foot on Centers
Total Trench Length:	380 Linear Feet
Distribution Method:	Pressure Manifold
Number of Taps:	5
Dosing Volume:	169 Gallons
Pump Run Time:	13.50 Minutes
Pressure Head:	2 Feet
Elevation/Friction Head	19.60 Feet
*Pump Requirements:	35.55 GPM at 21.60 Feet TDH
Recommended Pump:	Gould WE03M Series or equiv.

* Total Dynamic Head (TDH) for system is estimated based upon existing elevations, approximate pump off elevation, design pressure head and supply line length. Total Dynamic Head should be reconfirmed by septic contractor at the time of system installation based upon actual tank depth and pressure manifold height.
** See drainfield layout for site locations and more details.

Repair System Design Specifics

Daily Design Flow:	480 GPD 4-bedroom house
Septic Tank Size:	1,000 Gallons (minimum)
Pump Tank Size:	1,000 Gallons (minimum)
Effluent Loading Rate:	0.300 GPD per sq. ft.
Drainfield Type:	H-PPBPS (50% Reduction)
Maximum/Minimum Trench Depth:	22 Inches
Supply Size:	2 Inch
Supply Line Length:	Approximately 390 feet
Number of Drainlines:	4
**Drain Lines:	(4) 3' Wide x 76' Long
**Drainline Spacing:	9 Foot on Centers
Total Trench Length:	304 Linear Feet
Distribution Method:	Pressure Manifold
Number of Taps:	4

** See drainfield layout for site locations and more details.

PRESSURE MANIFOLD DESIGN - Repair System

Name: Michael Wood **Address:** 145 Pumice Drive

Daily Flow: 480 gal/day **L.T.A.R.:** 0.316 gal/day/sq.ft

Septic Tank: 1000 gals **Pump Tank:** 1000 gals **Sq. Foot:** 1140 **Drainline Depth:** See Report

Number of Taps: 5 **Length of Trenches:** 380 ft(See Tap Chart for Details)

Depth of Trenches: Variable in **Manifold Length:** 48 in

Manifold Diameter: 4in sch 40pvc **Tap Configuration: 6 in spacing** 1 **side(s) of manifold**

Supply Line: length: 390 ft **Diameter:** 2 **in sch 40pvc**

Friction Loss + Fitting Loss: 13.15 **ft(supply line length + 70' for fittings in pump tank)**

Design Head: 2 ft **Elevation Head:** 6.45 ft

Total Head: 21.60 ft **Pump to Deliver:** 35.55 gals/min at 21.60 ft head

Dosing Volume: 161 gals,

Drawdown: 161 gals divided by 23.75 gals/in = 6.8 inches

TAP CHART

Bench Mark	3.9	is = 100.00	set at Lot 9/10 EIP				Design Head:	2	
Pump tank elev.			101.75	Pump elev.	96.75		Manifold elev.	103.20	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	Orange	See Attached	101.75	76	1/2in SCH 40	7.11	96.00	228	0.421
2	Red	See Attached	102.55	76	1/2in SCH 40	7.11	96.00	228	0.421
4	Blue	See Attached	103.00	76	1/2in SCH 40	7.11	96.00	228	0.421
5	Orange	See Attached	103.20	76	1/2in SCH 40	7.11	96.00	228	0.421
6	Red	See Attached	102.75	76	1/2in SCH 40	7.11	96.00	228	0.421
		total	feet =	380	gal/min =	35.55		LTAR =	0.316
% of Dose Vol.		65		Des. Flow	480			(ltar + 5%)	0.332
Dose Volume		161		Pump Run=	13.50			(ltar W/ INOV)	0.421
Dose Pump Time		4.52		Tank Gal/IN	23.75			(ltar + 5%)	0.442
Drawdown in Inches		6.8		Elev. Head	6.45				
Supply Line Length		390							

RECEIVED APR 2 6 2022

3RD * REVISED SEPTIC LAYOUT *

APPLICATION MUST BE FILLED OUT COMPLETELY & BE LEGIBLE OR IT WILL NOT BE PROCESSED AP-319542

Iredell County Health Department – Environmental Health Division

SEPTIC **PAGE 1: *APPLICATION FORM*** Paid $1500.00

Application Fee: ( ) 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 COMPLETED, 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
Please see (X) beside attachment to submitted if applicable ( ) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information: (PRINT CLEARLY)

Applicant Name: Colby Stone II Properties Address: 259 Textile Way Ft Mill SC Zip: 29715

Applicant Email: Stan@ColbyStoneHomes.com Phone: 704 341 3329 Alt. Phone: X

Owner Name: Sutter River Homes, LLC Address: 259 Textile Way Ft Mill, SC Zip: 29715

Owner Email: N/A Phone: N/A Alt. Phone: N/A

Property Information:

Street Address: 145 Pumice Lane PIN 3783-43-5663

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

Driving Directions: North Walnut Trace / Left on Pumice / 1st or / 1st on Pumice

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: 4
Maximum Number of Occupants: 8
( ) 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/Others: ____

Water Supply: ( ) Replacement Well – Reason: _____
( ) Multi-connection Well Number of Houses: 1 Number of Persons: 4
( ) 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: Stan Colby 4/12/22
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

(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, Para Harding / Buller River, am the legal owner(s) of the property located at 145 Pumice Lane, identified as PIN (Parcel Identification Number) 3783-43-5663, located in Iredell County, North Carolina.

I do hereby authorize (print legal representative/company name) Steve Pressley / Cornerstone III, 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.

Para Harding / Buller River Dentent
Signature of Owner(s)

4/14/22
Date

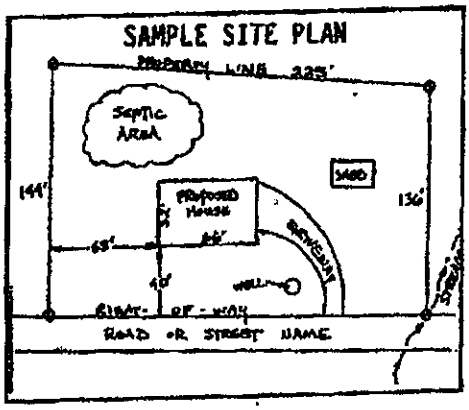
Mooresville - Environmental Health
ronda.harmon@co.iredell.nc.us
Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

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

IREDELL COUNTY 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:

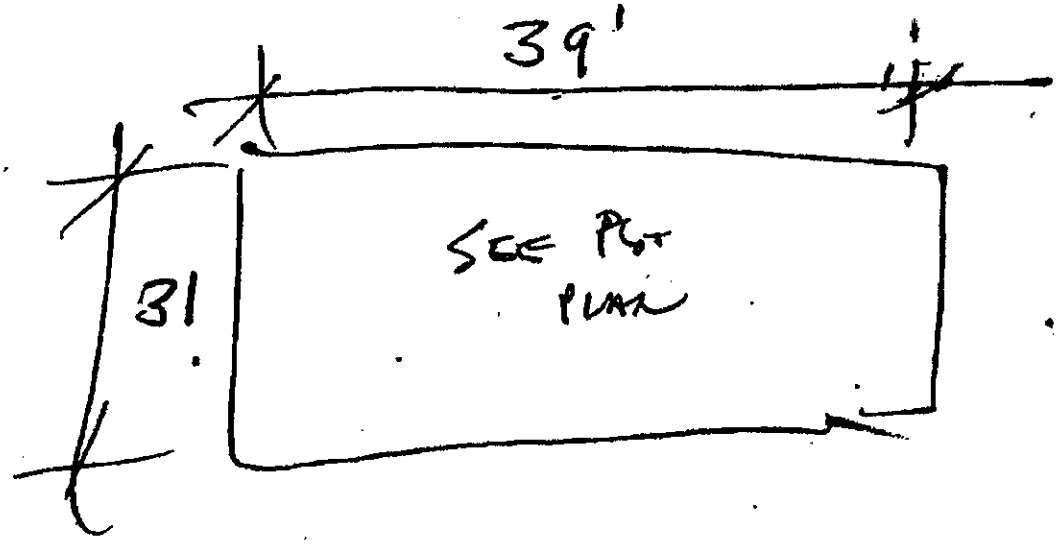
- (X) Property Line measurements are clearly identified
- (X) All proposed structures are indicated
- (X) Front and side setbacks from property line
- (X) Preferred driveway location
- (X) Preferred well location
- (X) Preferred septic system location
- (X) North arrow, or other sufficient indicator 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



Signature: Stan Crowley — 4/12/22

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

Notice

* Property subject to any easements and right of way on record, and all NCDOT easements and rights of way.

* This survey is subject to any facts that may be disclosed by a full and accurate title search.

* This survey plat does not show any unrecorded, written or unwritten easements, dedications or other encumbrances. Such burdens could exist on this property and not appear on this plat. Accordingly, users of this plat are warned to remain alert for the existence of such unrecorded burdens not shown hereon.

* This plat was drawn for the exclusive use of the party named hereon. Said certificates do not extend to any unnamed person without an express recertification by the surveyor naming said person.

* This plat represents an actual field survey that meets or exceeds the minimum requirements of a Class C Survey in accordance with the Standards of Practice for Land Surveying in North Carolina according to North Carolina Administrative Code Title 21, Chapter 56, Section 1600.

* The ratio of precision before any adjustments is 1:17,512.

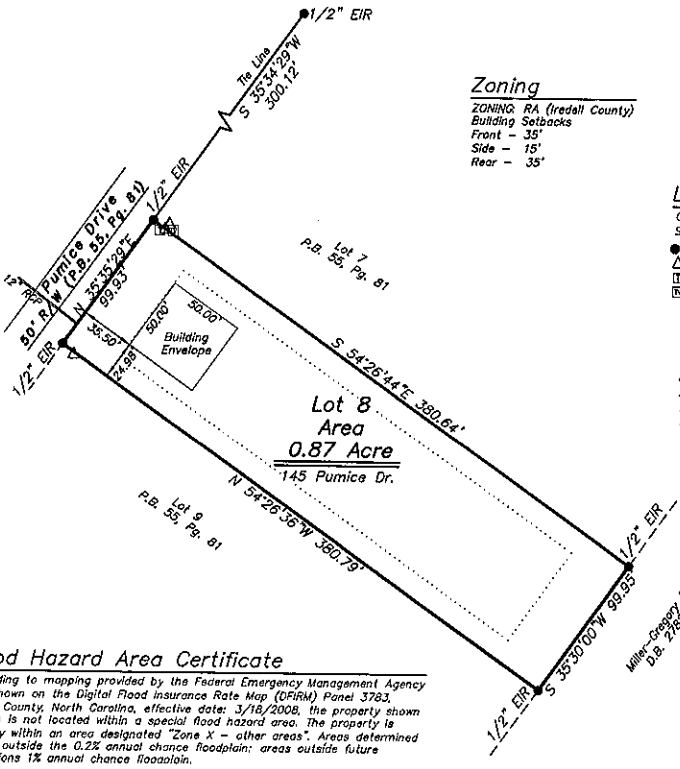
* Area determined by coordinate computations.

* No NGS or NCGS Horiz. Control Monument found within 2,000 feet of the site.

Witness this my original signature, registration number and seal this 14th day of May, 2021 A.D.

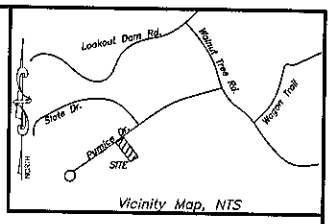
Ted M. Benbow NC PLS L-3175
Firm License # C-1588

NORTH CAROLINA PROFESSIONAL SEAL L-3175 LAND SURVEYOR TED M. BENBOW



Zoning

ZONING: RA (Iredell County)
Building Setbacks
Front - 35'
Side - 15'
Rear - 35'



Vicinity Map, NTS

Legend

CAPS ON MONUMENTS SET CONTAIN THE SURVEYORS NAME AND LICENSE NUMBER.

- EIR ..... EXISTING IRON ROD AS SHOWN
- ELECTRICAL HOOKUP
- TELEPHONE PEDESTAL
- TELEVISION PEDESTAL
- PIN ..... PARCEL IDENTIFICATION NUMBER
- RCP ..... REINFORCED CONCRETE PIPE
- EP ..... EDGE OF PAVEMENT
- R/W ..... RIGHT OF WAY
- NTS ..... NOT TO SCALE
- LINE SURVEYED
- TIE LINE SURVEYED
- LINE NOT SURVEYED
- R/W — RIGHT-OF-WAY LINE
- NOT TO SCALE

RELATIVE TO P.B. 55, Pg. 81

Flood Hazard Area Certificate

According to mapping provided by the Federal Emergency Management Agency and shown on the Digital Flood Insurance Rate Map (DFIRM) Panel 3783, Iredell County, North Carolina, effective date: 3/18/2008, the property shown hereon is not located within a special flood hazard area. The property is entirely within an area designated "Zone X - other areas". Areas determined to be outside the 0.2% annual chance floodplain: areas outside future conditions 1% annual chance floodplain.

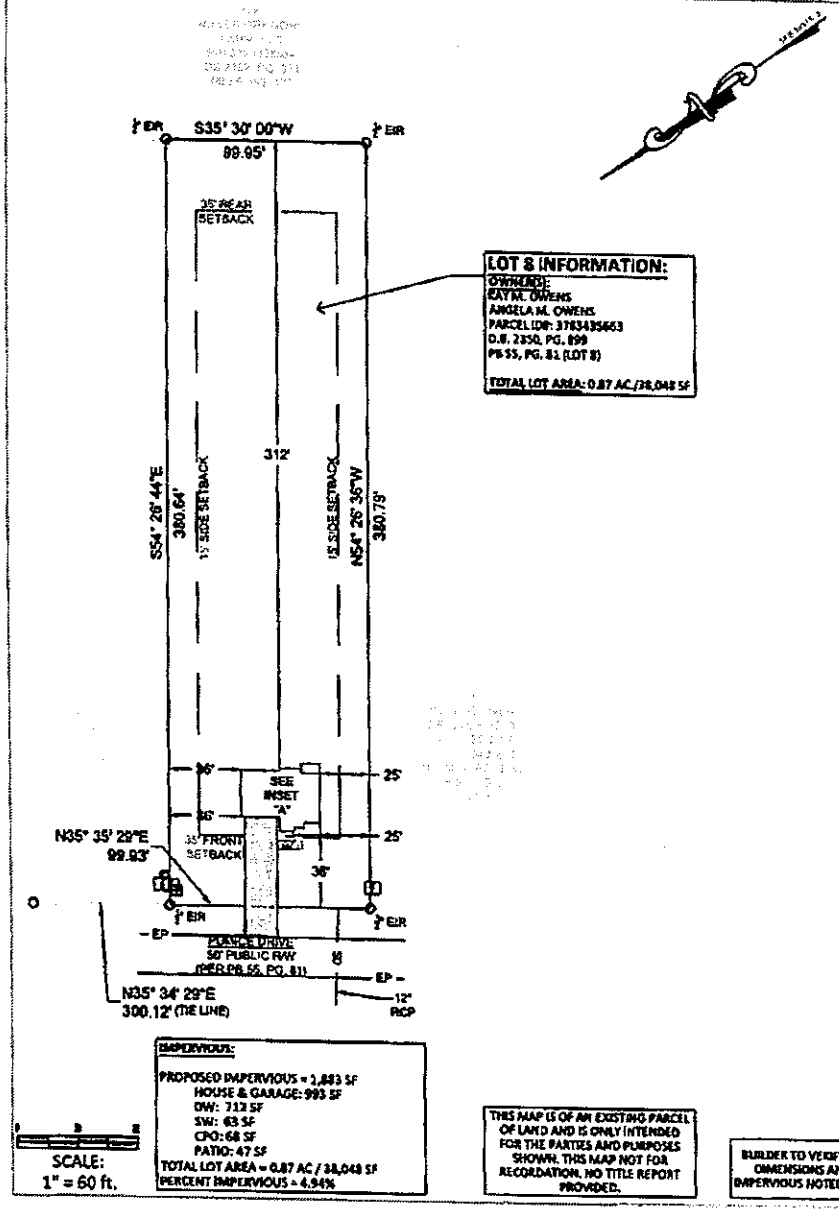
60 0 60 120 180
GRAPHIC SCALE - 1" = 60'

Boundary Survey For:

Buller River Development Partners, LP

Shiloh Township, Iredell County, NC
Owners of Record: Kay M. Owens and Angela M. Owens
Deed Reference: D.B. 2350, Pg. 899
Plat Reference: P.B. 55, Pg. 81
PIN: 3783-43-5663
Job Number: 2105127.DWG (2105127.CRD)
Field Work: 5/13/2021
Plat Date: 5/14/2021

TED BENBOW Land Surveying
Proudly Surveying Iredell County Since 1989
630 SIGNAL HILL DRIVE EXT., STATESVILLE, NC 28625
PHONE (704) 878-9661
www.boundarydevelopment.com



LOT & INFORMATION:

OWNERS:
KATY M. OWENS
ANGELA M. OWENS
PARCEL ID#: 3783435663
D.B. 2350, PG. 899
PB 55, PG. 81 (LOT 8)

TOTAL LOT AREA: 0.87 AC./38,048 SF

IMPERVIOUS:

PROPOSED IMPERVIOUS = 1,883 SF
HOUSE & GARAGE: 993 SF
DW: 732 SF
SW: 63 SF
CPO: 68 SF
PATIO: 47 SF
TOTAL LOT AREA = 0.87 AC / 38,048 SF
PERCENT IMPERVIOUS = 4.94%

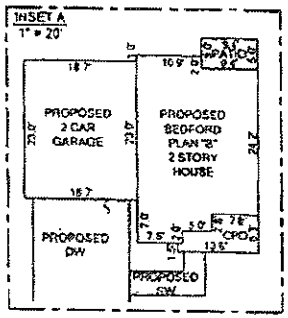
SCALE:
1" = 60 ft.

THIS MAP IS OF AN EXISTING PARCEL OF LAND AND IS ONLY INTENDED FOR THE PARTIES AND PURPOSES SHOWN. THIS MAP NOT FOR RECORDATION. NO TITLE REPORT PROVIDED.

BUILDER TO VERIFY HOUSE LOCATION, DIMENSIONS AND REVIEW TOTAL IMPERVIOUS NOTED ON THIS PLOT PLAN.

LEGEND

- IPS - IRON PIPE SET
- EXISTING PROPERTY CORNER
- ELECTRICAL HOOKUP
- CABLE PEDESTAL
- TELEPHONE PEDESTAL
- ADJOINING PROPERTY
- EIR - EXISTING IRON ROD
- EP - EDGE OF PAVEMENT
- CPO - COVERED PORCH
- SW - SIDEWALK
- DW - DRIVEWAY

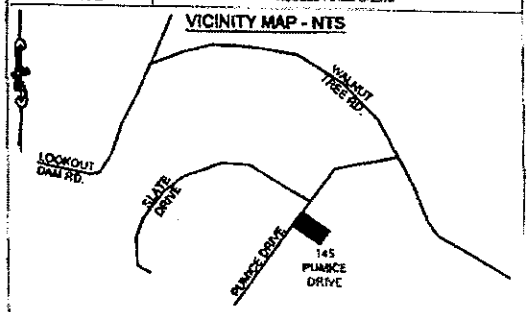


NOTES

1. SURVEY PERFORMED BY TED BENBOW LAND SURVEYING, INC. AND ALL EXISTING FEATURES ARE SCALED IN FROM SURVEY TITLED "BOUNDARY SURVEY FOR BULLER RIVER DEVELOPMENT PARTNERS, LP" DATED 05/14/2021
2. ALL HORIZONTAL GROUND DISTANCES AND ALL BEARINGS ARE BASED ON TED BENBOW LAND SURVEYING, INC. AND ALL EXISTING FEATURES ARE SCALED IN FROM SURVEY TITLED "BOUNDARY SURVEY FOR BULLER RIVER DEVELOPMENT PARTNERS, LP" DATED 05/14/2021.
3. THE PROPERTY LIES IN ZONE "X" PER NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP # 3710378300K DATED 03/18/2008.
4. SITE ZONED "RA" PER IREDELL COUNTY.
   FRONT: 35' SIDE: 15' REAR: 35'
5. AREAS COMPUTED BY COORDINATE METHOD.
6. NO GRID MONUMENTS FOUND WITHIN 2000' PER REFERENCE
7. THIS MAP IS NOT FOR RECORDATION AND SHOULD BE REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH APPLICABLE LAND DEVELOPMENT REGULATIONS.
8. THIS PLAN HAS BEEN PREPARED FOR LAYOUT AND PERMITTING PURPOSES ONLY.
9. SURVEY HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
10. THERE IS A 10' DRAINAGE AND UTILITY EASEMENT ALONG EACH SIDE OF ALL LOT LINES, PER PLAT BOOK 55, PAGE 81.

BATEMAN CIVIL SURVEY COMPANY
ENGINEERS • SURVEYORS • PLANNERS
2524 RELIANCE AVENUE APEX, NC 27539
PHONE (919) 577-1080 FAX (919) 577-1081
INFO@BATEMANCIVILSURVEY.COM
NCBELS FIRM C-2318

VICINITY MAP - NTS



I, STEVEN P. CARSON, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY DIRECT SUPERVISION FROM A SURVEY MADE UNDER MY SUPERVISION (PLAT BOOK REFERENCED IN TITLE BLOCK); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION LISTED UNDER REFERENCES; THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10,000+; AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARD OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA. L-4752
DATED:

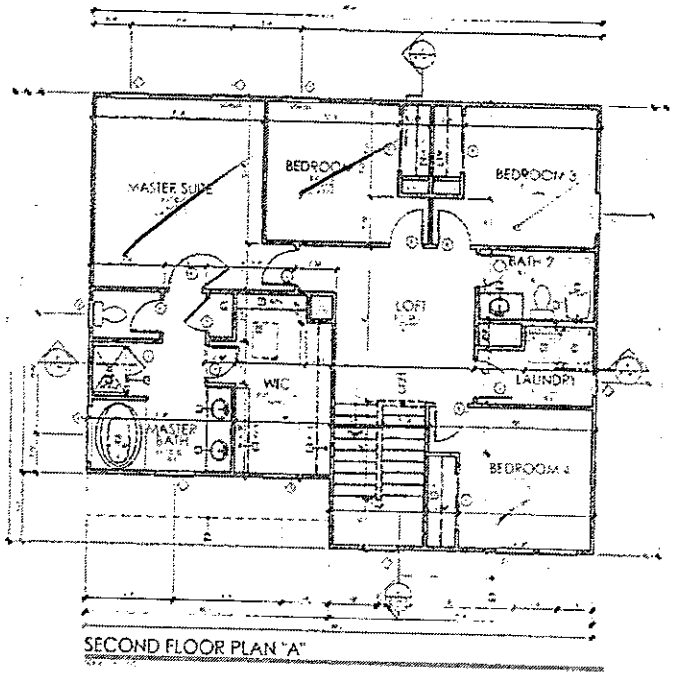
PRELIMINARY

THIS MAP IS CONSIDERED PRELIMINARY, NOT FOR RECORDATION, CONVEYANCE OR SALES UNLESS SIGNED AND SEALED BY THE LICENSED SURVEYOR.

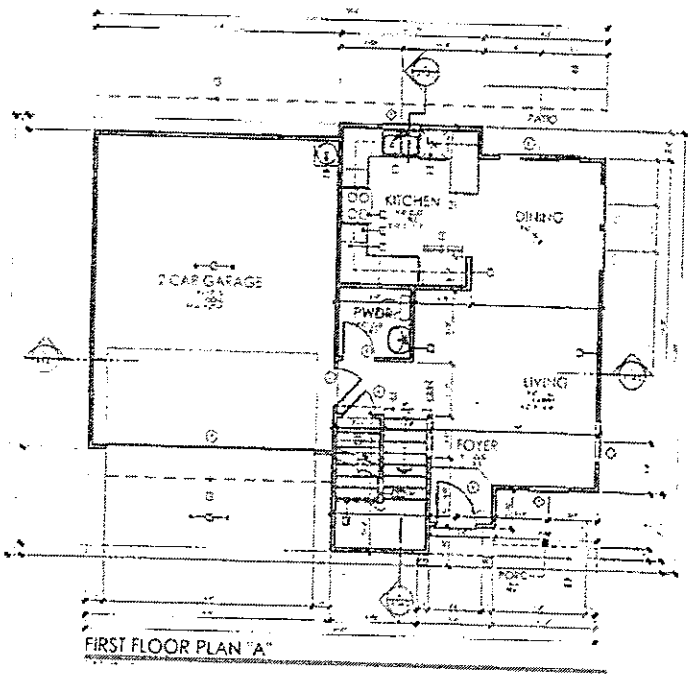
PROJECT# 210510

Plot Plan Exclusively For:
Buller River Development Partners, LP

145 PUMICE DRIVE (LOT 8)
RIVER ROCK SUBDIVISION - PHASE 2
STATESVILLE, NC 28625
SHILOH TOWNSHIP, IREDELL COUNTY
DRAWN BY: GCS CHECKED BY: SPC DATE: 7/23/20
REFERENCE: SEE NOTE 2 SCALE:1"=6



SECOND FLOOR PLAN "A"



FIRST FLOOR PLAN "A"

FLOOR PLAN NOTES

DOOR SCHEDULE

WINDOW SCHEDULE

AREA CALCULATION

Acknowledgement Of
Plans Submittal ONLY!

Stan W. Date 5/26/22

Date 5/26/22

CORNERSTONE III PROPERTIES

REVISIONS

CHARLOTTE, NC

FLOOR PLANS

BEDFORD
ELEVATION 'A'

A1-1.0

IREDELL
COUNTY · NC

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

APPLICATION NUMBER
319542 Issue Date:

Permit Type: ZONING

Parcel Number	Street Address	Jurisdiction
3783435663.000	145 PUMICE DR	Iredell County

Owner Information	Applicant Information
Name: OWENS ANGELA M	Name: CORNERSTONE III PROPERTIES INCc
Address:	Address: 4509 FAITH CHURCH INDAIN TRAIL, 28 28203
Phone:	Phone: (704)906-6212

Use Requested	Zone Code
Single Family Dwelling	RA

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
0.87	35	35	15	15	WSIV-CA Catawba/Lake Norman	NO

Remarks
sfd

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.

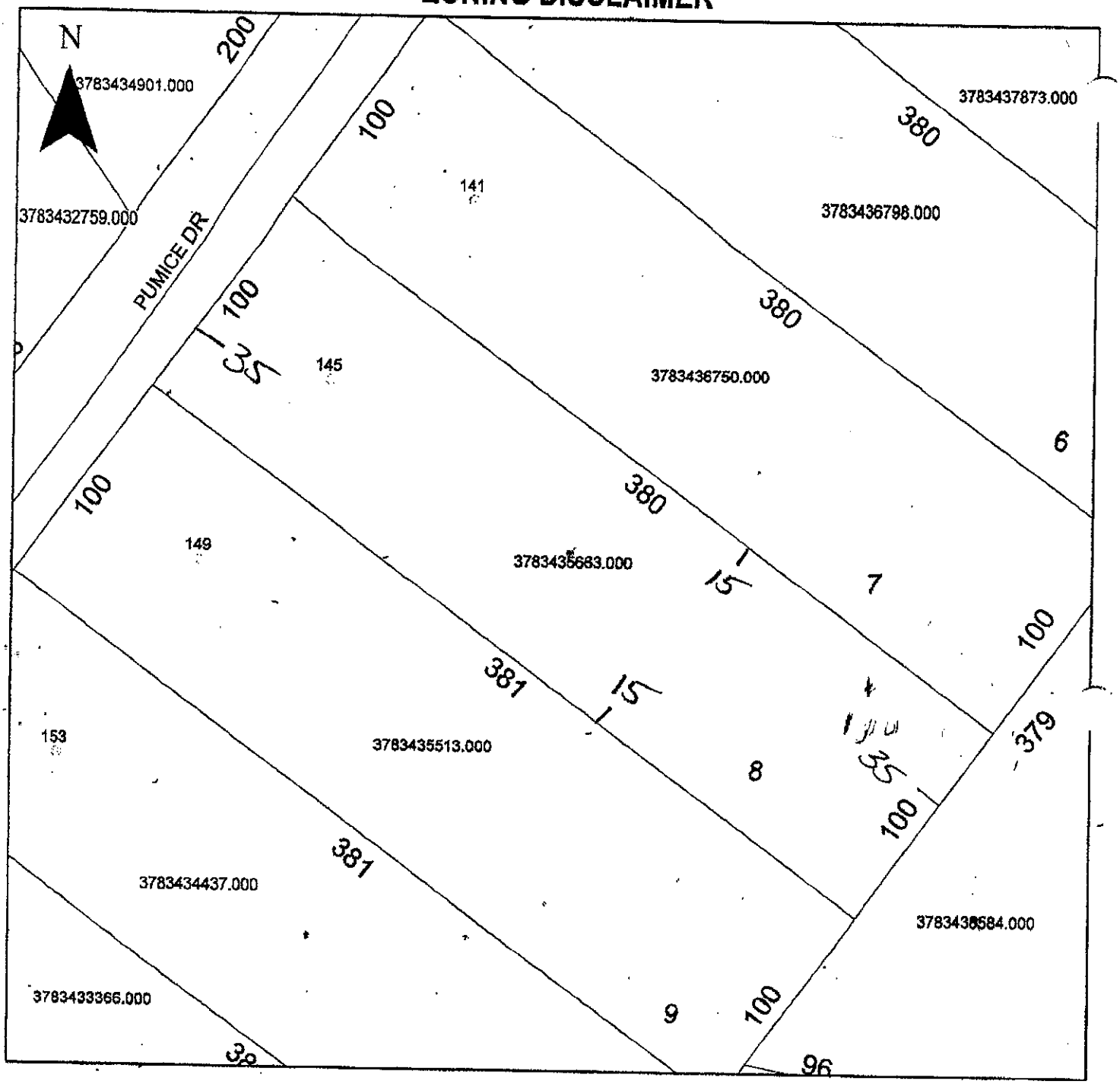
Signature of Owner/Contractor

Date: 07/09/2021

Permit Number	319542

TOTAL FEES:	$77.25

ZONING DISCLAIMER



Property Address 145 Pumice Dr.

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.

Applicant

7/9/21
Date