ICHD - ENVIRONMENTAL HEALTH DIVISION

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

PERMIT # OSWP-2024-45312

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

PIN # 4636-78-1963

APPLICANT / OWNER: Soil & Forestry Services LLC | APPLICANT ADDRESS: 126 3rd Creek Rd, Statesville, NC 28677

SITE ADDRESS: 933 BRAWLEY SCHOOL RD, MOORESVILLE, NC 28117 | PHONE: 704-746-5046 | ALT. PHONE:

SITE DIRECTIONS: W Brawley School -> lot on L after Canvasback | SAP CONTROLLED: YES ☐ NO ☑

SUBDIVISION: Kamco | SECTION: N/A | LOT #: 1 | LOT AREA: 0.44 | DESIGN FLOW: 750 | L.T.A.R.: 0.3

Septic Tank: 1500 (gal)	STB: 964	Date: 12-30	☒ New System ☐ Repair ☐ Expansion	System Type: III	☐ Residence	No. Bedrooms: 0	Water Supply: Other Public Water
Pump Tank: (gal)	PT:	Date:	System Description: VPPBPS		☒ Business	No. Persons: 0	
Pump Make:	Model:	Serial #:	Repair System Description: LPVPPBPS		☐ Other	No. Employees: 6	
# Nitrification Fields: 1	# Lines: 7	Linear Ft.: 420	Maintenance Agreement Required: ☐ YES ☑ NO		☐ Slab	☑ Crawl Space	
Trench Width: 24	Trench Bottom Depth (Low side): 30		Gravel Depth: 0	☑ GRAVITY ☐ PRESSURE	☐ Basement w/ Plumbing	☐ Basement w/o Plumbing	

Comments / Conditions: Do not pave, grade, drive, park, or bury utilities in drainfield. Divert all drainage & install on contour.

INITIAL SITE SKETCH

Improvement permit issued pursuant to: G.S. 130A-335(a2), (a3) & (a4) using signed & sealed LLS/LG Evaluation attached, from:

Ashley Rollans

LSS# __1231__

Construction authorization issued pursuant to: G.S. 130A-335(a2) & (a5)

AOWE# __10027E__

AS BUILT SKETCH

Septic Easement: Book 3040, Pg 1662

EASEMENT MUST BE STAKED IN THE FIELD PRIOR TO INSTALLATION.

Installed as permitted (2-16-2024)

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:

IMPROVEMENT PERMIT by: D. Wieberg Date: 2/5/24

AUTHORIZATION TO CONSTRUCT by: D. Wieberg Date: 2/5/24

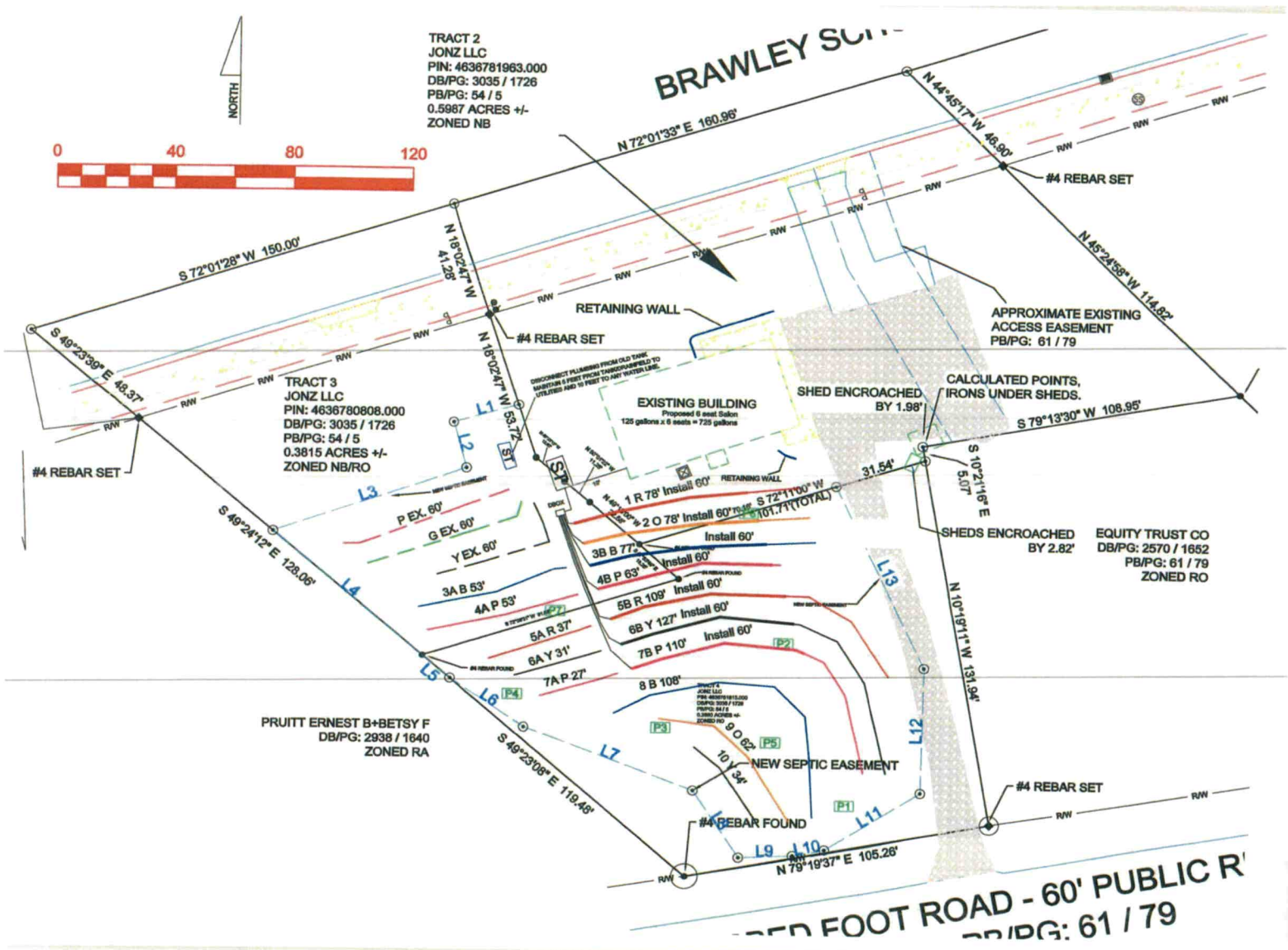
Installed By: Steve Jordan

OPERATION PERMIT by: Bijamin A Bost Date: 2/16/2024

Existing System Inspected By: Date:

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

- OP notes into Energov


NORTH
0
40
80
120
TRACT 2
JONZ LLC
PIN: 4636781963.000
DB/PG: 3035 / 1726
PB/PG: 54 / 5
0.5987 ACRES +/-
ZONED NB
BRAWLEY SCH
N 72°01'33" E 160.96'
N 44°45'17" W 46.90'
#4 REBAR SET
S 72°01'28" W 150.00'
N 18°02'47" W 41.26'
N 45°24'58" W 114.82'
RETAINING WALL
#4 REBAR SET
APPROXIMATE EXISTING
ACCESS EASEMENT
PB/PG: 61 / 79
S 49°23'39" E 48.37'
TRACT 3
JONZ LLC
PIN: 4636780808.000
DB/PG: 3035 / 1726
PB/PG: 54 / 5
0.3815 ACRES +/-
ZONED NB/RO
N 18°02'47" W 53.72'
EXISTING BUILDING
Proposed 6 seat Salon
125 gallons x 6 seats = 725 gallons
SHED ENCROACHED
BY 1.98'
CALCULATED POINTS,
IRONS UNDER SHEDS.
S 79°13'30" W 108.95'
#4 REBAR SET
S 49°24'12" E 128.06'
P EX. 60'
G EX. 60'
Y EX. 60'
1 R 78' Install 60'
2 O 78' Install 60'
S 72°11'00" W
101.71'(TOTAL)
31.54'
S 10°21'16" E
5.07'
SHEDS ENCROACHED
BY 2.82'
EQUITY TRUST CO
DB/PG: 2570 / 1652
PB/PG: 61 / 79
ZONED RO
3B B 77'
4B P 63'
5B R 109'
6B Y 127'
7B P 110'
8 B 106'
3A B 53'
4A P 53'
5A R 37'
6A Y 31'
7A P 27'
Install 60'
N 10°19'11" W 131.94'
PRUITT ERNEST B+BETSY F
DB/PG: 2938 / 1640
ZONED RA
S 49°23'06" E 119.46'
9 O 62'
10 Y 34'
NEW SEPTIC EASEMENT
#4 REBAR FOUND
#4 REBAR SET
N 79°19'37" E 105.26'
L1
L2
L3
L4
L5
L6
L7
L9
L10
L11
L12
L13
P1
P2
P3
P4
P5
ST1
ST2
RW
FOOT ROAD - 60' PUBLIC R
PB/PG: 61 / 79

Permit/File #: OSWP-2024-45312

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES

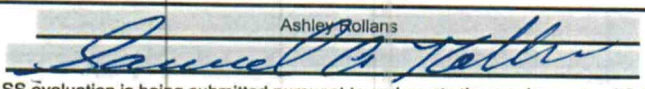
ROY COOPER • Governor
KODY H. KINSLEY • Secretary
MARK BENTON • Deputy Secretary for Health
SUSAN KANSAGRA • Assistant Secretary for Public Health
Division of Public Health

Submittal Includes; [X] (a2) Improvement Permit [X] (a2) Construction Authorization [ ] Fee $

IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)

County: Iredell
PIN/Lot Identifier: 4636781963
Issued To: Carter Jones
Property Location: 933 Brawley School Rd, Mooresville NC 28117
Subdivision (if applicable): N/A Lot#: N/A Block: Section:
LSS Report Provided: Yes [X] No [ ]
If yes, name and license number of LSS: Ashley Rollans #1231
New [X] Expansion [ ] System Relocation [ ] Change of Use [ ]
Facility Type: Hair Salon 6 Seats
Number of bedrooms: 0 Number of Occupants: 0 Other:
Design Wastewater Strength: [X] Domestic [ ] High Strength [ ] Industrial Process Wastewater
Proposed Design Daily Flow: 750 GPD Proposed LTAR (Initial): 0.3 Proposed LTAR (Repair): 0.3
Proposed Wastewater System Type*: IIIe (VPPBPS 8') GRAVITY (Initial) Pump Required: [ ] Yes [X] No [ ] May be required
Proposed Wastewater System Type*: IIIe (VPPBPS 8') LPP (Repair) Pump Required: [X] Yes [ ] No [ ] May be required
Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII
Saprolite System (Initial): [ ] Yes [X] No Saprolite System (Repair): [ ] Yes [X] No
Fill System (Initial): [ ] Yes [X] No If yes, specify: [ ] New [ ] Existing (when adding more than 6 inches of fill to system area provide a fill plan)
Fill System (Repair): [ ] Yes [X] No If yes, specify: [ ] New [ ] Existing (when adding more than 6 inches of fill to system area provide a fill plan)
Usable Depth to LC (Initial)*: 52-60" Usable Depth to LC (Repair)*: 50-60" * Limiting Condition
Max. Trench Depth (Initial)ǂ: 30 Max. Trench Depth (Repair)ǂ: 30 ǂ Measured on the downhill side of the trench
Artificial Drainage Required: [ ] Yes [X] No If yes, please specify details:
Type of Water Supply: [ ] Private well [ ] Public well [ ] Shared well [X] Municipal Supply [ ] Spring [ ] Other:
Drainfield location meets requirements of Rule .0508: Yes [X] No [ ] Drainfield location meets requirements of Rule .0601: Yes [X] No [ ]
Permit valid for: [X] Five years [site plan submitted pursuant to GS 130A-334(13a)] [ ] No expiration [plat submitted pursuant to GS 130A-334(7a)]

Permit conditions:
See Design

Licensed Soil Scientist Print Name: Ashley Rollans
Licensed Soil Scientist Signature:  Date: 1/22/2024

The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).

See attached site sketch

NCDHHS

Permit/File #: OSWP-2024-45312

CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)

County: Iredell

Pre-Construction Conference Required: [ ] Yes [X] No

PIN/Lot Identifier: 4636781963

Issued To: Carter Jones

Property Location: 933 Brawley School Rd, Mooresville NC 28117

AOWE/PE Plans/Evaluations Provided: Yes [X] No [ ] If yes, name and license number of AOWE/PE: Ashley Rollans #10027E

Facility Type: 6 Seat Salon

Number of bedrooms: 0 Number of Occupants: 0 Other:

[X] New [ ] Expansion [ ] Repair [ ] System Relocation [ ] Change of Use

Basement? [ ] Yes [X] No Basement Fixtures? [ ] Yes [ ] No

Crawl Space? [X] Yes [ ] No Slab Foundation? [ ] Yes [X] No

Type of Wastewater System* IIIe (VPPBPS 8') GRAVITY (Initial) IIIe (VPPBPS 8') LPP (Repair)

**Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII*

Design Daily Flow: 750 GPD Wastewater Strength: [X] Domentic [ ] High Strength [ ] Industrial Process WW

Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? [ ] Yes [X] No
(if yes, please provide engineering documentation)

Effluent Standard: [X] DSE [ ] HSE [ ] NSF/ANSI 40 [ ] TS-I [ ] TS-II [ ] RCW

Type of Water Supply: [ ] Private well [ ] Public well [ ] Shared well [X] Municipal Supply [ ] Spring [ ] Other:

Installation Requirements/Conditions

Septic Tank Size: 1500 gallons Total Trench/Bed Length: 420 feet Trench/Bed Spacing: 8 feet on center

Trench/Bed Width: 24 inches LTAR: 0.3 gpd/ft² Usable Depth to LC (Initial)*: 52-60" *Limiting condition

Soil Cover: 0 inches Slope Adjusted Maximum Trench/Bed Depth‡: 30 inches *‡ Measured on the downhill side of the trench*

Pump Tank Size (if applicable): N/A galllons Requires more than 1 pump? [ ] Yes [X] No

Pump Requirements: N/A ft. TDH vs. N/A GPM Grease Trap Size (if applicable): gallons

Distribution Method: [X] Serial [ ] D-Box or Parallel [ ] Pressure manifold(s) [ ] LPP [ ] Other

Artificial Drainage Required: Yes [ ] No [X] If yes, please specify details:

Legal Agreements *(If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)*

Multi-party Agreement Required [.0204(g)]: [ ] Yes [X] No Declaration of Restrictive Covenants: [ ] Yes [X] No

Easement, Right-of-Way, or Encroachment Agreement Required [.0301(b)]: [ ] Yes [X] No

Management Entity Required: Yes [ ] No [X] Minimum O&M Requirements:

Permit conditions:

See Design

The requirements of 15A NCAC 18E are incorporated by reference into this permit and shall be met. Systems shall be installed in accordance with the attached site sketch. *This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes.* The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of 15A NCAC 18E, or 15A NCAC 18A .1900, as applicable, and to the conditions of this permit.

AOWE/PE Print name: Ashley Rollans

AOWE/PE Signature: Samuel A Rollins

Expiration Date: 1/22/2029

Date: 1/22/2024

This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).

See attached site sketch

ONSITE WASTEWATER EVALUATOR Certification Number 10027E

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Project#: 23-0144
January 19th, 2024

Carter Jones
Attn: *Carter Jones*
Email: carter.o.jones@oracle.com

RE: Soil & Site Evaluation for a Hair Salon at 933 Brawley School Rd (750 gallons per day/6 seats), PIN# 4636781963, Mooresville, NC 28117, Iredell County, NC.

Carter:

At your request Soil & Forestry Services of the Carolinas (S&FS) has performed soil/site evaluations on parcel noted above. The Lot size is noted on the attached survey map & soil evaluation form. The purpose of our work was to identify soil areas with potential to support subsurface wastewater disposal systems and provide design details for Session Law submittals to Iredell County Health Department.

Site Conditions

At the time of our evaluation land cover on the property was mostly open on the property with an existing buidling. Topography within the evaluated area was gently to moderate slope near the existing facility with moderate percentage of slope in the proposed drainfield area. Property lines and corners were marked at the time of the evaluation by Southern Engineering. The Surveyor provided an Autocad File of the survey with the existing building as a basemap. The proposed septic layout was located via survey which was used to produce the attached *Site Plan*. The existing water line location is unknown but must be 10' from any septic. Septic components must be 5 feet from any buried utilities. The existing system is to be disconnected. Easements must be established for system to cross property line.

Methodology

We evaluated soil areas through the use of excavator pits. Soil morphological conditions including color, texture, structure, etc. were reviewed in the field with seven pit locations on the property flagged and located via GPS. All seven of the backhoe pits are located in the proposed septic layout. Soil suitability was determined by referencing 15A NCAC 18A.1900 "Laws and Rules for Sewage Treatment and Disposal Systems". *Soil & Site Evaluation Forms* were utilized to record the soil morphological data for each boring. The existing structure was located via survey. An on-ground layout of system and repair was performed using a laser level. Pin flag locations of the layout were also located by survey. Detailed system & repair information is summarized in the following paragraph for this Lot.

933 Brawley School Rd- PIN#4636781963 *(See Attached Design)*

The septic layout for this lot (8' centers) yielded a total of 1,047 linear feet of line. The primary system is proposed as 420 linear feet of Modified Conventional PPBPS (50% Reduction) drainfield with gravity distribution. Trench depth is specified at 30 inches. The repair system is proposed as 420 linear feet of Modified Conventional PPBPS (50% Reduction) drainfield with low pressure distribution. Trench depth is specified at 30 inches. There is 627 linear feet available for repair.

Session Law Requirements

All information needed to issue the IP must be submitted with the application. The application shall include all information described in 15A NCAC 18A .1937(d) and be accompanied by a signed and dated statement from the applicant (owner or owner's legal representative) that reads as follows:

"The LSS/LG evaluation(s) attached to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3)."

Owner Date

Print Name Carter Jones

Signature _____ 1/22/2024

The LSS evaluation shall include a statement bearing the LSS seal and signature that reads as follows:

"The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2)."

Disclaimer

This report reflects the findings of S&FS, PA. *This LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2)."* Any site modifications that impact the proposed septic areas on the site may nullify this design for 933 Brawley School Rd, Mooresville NC 28177. System design requirements and site requirements shall be adhered to for installation and Operations Permits to be issued by the local Health Department. If you have questions regarding these requirements a Pre-Construction meeting should be scheduled to discuss. Please contact S&FS if you have any questions regarding this report or the attached information. S&FS also offers septic system inspection, wetland delineation and forestry services.

Sincerely,

LICENSED SOIL SCIENTIST
SAMUEL A. ROLLANS
STATE OF NORTH CAROLINA
1231

S. Ashley Rollans, LSS

Attachment: *Septic Design, Required Statement for Local Health Department/NCDHHS*

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

1/22/2024

Iredell County Environmental Health
Attn: Heath Snow
349 N Center Street
Statesville, NC 28677

Re: Improvement Permit & CA Submittal for 933 Brawley School Rd, Mooresville

Mr. Snow,

Attached please find sealed soil notes as well as site plans and design related data for a 6 Seat Salon VPPBPS 8' system using GRAVITY distribution.

"The LSS evaluation attached to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3)."

"The plans or evaluations attached to this application are to be used to issue a Construction Authorization in accordance with G.S. 130A-335(a2), (a5) and (a6)."

Owner/Applicant: Carter Jones

Signature: _____

Date: 1/22/2024

"The LSS Evaluation is being submitted pursuant to and meets requirements of GS 130A-335(a2)." This Improvement Permit is issued pursuant to G.S. 130A-335(a2),(a3), and (a4) using the signed and sealed LSS evaluation attached here". "This AOWE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5)"

"This Construction Authorization is issued pursuant to G.S. 130A-335 (a2), and (a5) and (a6) using the signed and sealed plans or evaluations attached here."

Ashley Rollans, LSS

Signature: _____

Date: 1/22/2024 Seal:

LICENSED GEOLOGIST
SAMUEL A. ROLLANS
1231
STATE OF NORTH CAROLINA

NC ONSITE WASTEWATER
CERTIFICATE NUMBER
10027E
EVALUATOR

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES

ROY COOPER • Governor
KODY H. KINSLEY • Secretary
MARK BENTON • Deputy Secretary for Health
SUSAN KANSAGRA • Assistant Secretary for Public Health
Division of Public Health

Application for Services

This application, in conjunction with the common form established in G.S. 130A-335(a3) and (a5), is optional for local health departments to be used for applications submited in accordance with G.S. 130A-335(a2), (a3), and (a5).
[hereinafter, G.S. 130A-335(a3) and (a5) permits referred to as (a2) Improvement Permit and (a2) Construction Authorization]

Applying for:

[X] (a2) Improvement Permit [X] (a2) Construction Authorization [ ] (a2) Repair/Construction Authorization

If applying for a Construction Authorization, please indicate desired system type(s):

[ ] Accepted [ ] Conventional [ ] Innovative [X] Other VPPBPS [ ] Any

[X] New Construction [ ] Expansion [ ] System Relocation [ ] Change of Use [ ] Repair

[X] 5 Year Expiration Requested (site plan provided) [ ] Non-Expiring Permit Requested (plat provided, as defined in G.S. 130A-334(7a)

Requesting DHHS review? (systems >3000 GPD or PWW) [ ] Yes [X] No

Applicant:	Ashley Rollans // Soil & Forestry Services, PA
Mailing Address:	PO Box 8572
City:	Statesville
State:	North Carolina
Zip:	28687
Phone #:	980-223-8352
Email:	sfsstatesvillenc@gmail.com

Owner:	Carter Jones
Mailing Address:	939 Brawley School Rd, Mooresville NC 28117
City:	Mooresville
State:	North Carolina
Zip:	28117
Phone #:	816-728-6803
Email:	carter.o.jones@oracle.com

If the answer to any of the following questions is "yes", applicant must attach supporting documentation.

[ ] Yes	[X] No	Does the site contain any jurisdictional wetlands?
[ ] Yes	[X] No	Is any wastewater going to be generated on the site other than domestic sewage?
[ ] Yes	[X] No	Is the site subject to approval by any other public agency?
[X] Yes	[ ] No	Are there any easements or right of ways on this property?

I understand that the documentation and fees, as required in G.S. 130A-335(a2), (a3), (a5), and (a6), attached to this application are to be used to issue an Improvement Permit and/or Construction Authorization pursuant to G.S. 130A-335(a2),(a3), and (a5). I understand that authorized county and state officials are granted right of entry to the property indicated on this application to conduct necessary inspections to determine compliance with applicable laws and rules. *I understand that if the information in the application for an Improvements Permit and/or Construction Authorization is falsified, changed, or the site is altered, then the Improvement Permit and Construction Authorization shall become invalid.*

Applicant Signature: _____ Date: 1/22/2024

Owner's Signature: _____ Date: 1/22/2024

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

sfsstatesvillenc@gmail.com
980-223-8352
PO Box 5872
Statesville NC 28687
SoilAndForestryServices.com

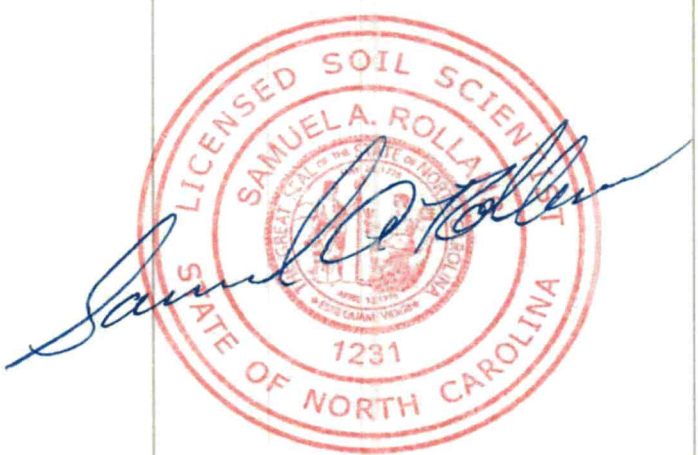
Project# 23-0144

Septic System Design for a Bedroom House
VPPBPS 8' using GRAVITY distribution
Site location: 933 Brawley School Rd, Mooresville, Lot # N/A

Contents

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Design Specifications	2
Layout Specifications	3
Site Plan	4
Calculations	5
Soil Descriptions	6
Floor Plans	7

1/19/2024
Design By: Ashley Rollans



INFORMATION FOR THE INSTALLER **Project #23-0144**

VPPBPS 8' using GRAVITY distribution
Site location: 933 Brawley School Rd, Mooresville, Lot # N/A

* **CALL 811 BEFORE DIGGING**
* The permit should be read very carefully prior to bidding. The following are details that must be considered along with all other considerations.
* Tanks shall be approved by DHHS, and certification supplied by the that must be considered along with all other considerations.
* The installer shall be responsible to the owner for placement of the tanks and to insure that final grades are returned to the original natural grade, with exception of added structural features.
* The supply trench shall be compacted to eliminate cavities left during initial fill placement.
* Installation of the system shall be during dry conditions in order to protect the soil
* All fittings shall be pressure rated fittings.
* All joints shall be cleaned with PVC pipe cleaner and a heavy bodied glue applied to weld all joints.
* Where required by the county health department, post installation inspections by the designer must be scheduled 5 week days in advance.
* Trenches shall be carefully excavated so the bottom is within 2" from the highest to the lowest points of elevation within the trench. If the bottom elevation needs adjusting after it has been trenched, it will be done by removing high points rather than filling low points. It is extremely important to insure that trenches are not over excavated during initial trenching. All fine grading within the trench will be hand done with a shovel. No loose material will be left in the trench
* All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the riser.
* All tanks shall be properly back filled and compacted to prevent slump at a later date.
* Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral.
* No heavy equipment shall be used on the field during or after installation. The use of a small loader (i.e. Bobcat) or a trencher (i.e. Ditch Witch 2300/2310) may be used.
* Elevations at pinflag locations should be checked by the installer prior to beginning
* Septic tank riser shall be a minimum of 6" above finished grade.

* **System specified as VPPBPS 8' type using GRAVITY distribution**
* **Repair specified as VPPBPS 8' type using LPP distribution**
* **System trench depth specified at 30"**
* **System trenches installed on 8' minimum; 24" wide trenches**
* **Installation does not require a soil cap**

DESIGN SPECIFICATIONS **Project #23-0144**

VPPBPS 8' using GRAVITY distribution
Site location: 933 Brawley School Rd, Mooresville, Lot # N/A

Business (if applicable):	N/A
Contact:	Carter Jones
Phone:	816-728-6803
Email:	carter.o.jones@oracle.com
County:	Iredell
Location:	933 Brawley School Rd, Mooresville

Source of Wastewater Flow:	6 seat salon
Estimated Daily Wastewater Production:	750 gpd
Drain field Size:	420 lf
Loading Rate:	0.3 $gpd/ft.^2$
Trench Depth:	30 in
Trench Width:	24 in
Soil Cap:	0 in
Septic Tank Size:	1500 gal

LAYOUT SPECIFICATIONS

Project #23-0144

VPPBPS 8' using GRAVITY distribution
Site location: 933 Brawley School Rd, Mooresville, Lot # N/A

Daily Flow (gpd) 750 **Jan 2024**

LINE #	FLAG COLOR	BS	HI	FS	ELEV	FLAGGED LENGTH	DESIGN LENGTH
TBM INSTR. 1							
			SYSTEM				
1	RED					78	60
2	ORANGE					78	60
3B	BLUE					77	60
4B	PINK					63	60
5B	RED					109	60
6B	YELLOW					127	60
7B	PINK					110	60
			REPAIR				
3A	BLUE					53	53
4A	PINK					53	53
5A	RED					37	37
6A	YELLOW					31	31
7A	PINK					27	27
8	BLUE					108	108
9	ORANGE					62	62
10	YELLOW					34	34

	LINE LENGTH	LTAR GPD/FT^2	SYSTEM TYPE	REDUCTION TYPE	DIST	TRENCH DEPTH	SOIL CAP
SYSTEM	420	0.300	VPPBPS 8'	50%	GRAVITY	30	0
REPAIR	627	0.300	VPPBPS 8'	50%	LPP	30	0

Notes:
**TBM is assumed to be 100'
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags
**BS and FS indicate rod readings
**Existing system not used in design. Disconnect plumbing from tank.

SYSTEM FLOW

Project #23-0144

VPPBPS 8' using GRAVITY distribution
Site location: 933 Brawley School Rd, Mooresville, Lot # N/A

Line #	Color	Elevation	Length	Hole Size	Flow/hole	Trench Area	Number of Panels
1	RED		60	N/A	N/A	120	14
2	ORANGE		60	N/A	N/A	120	14
3B	BLUE		60	N/A	N/A	120	14
4B	PINK		60	N/A	N/A	120	14
5B	RED		60	N/A	N/A	120	14
6B	YELLOW		60	N/A	N/A	120	14
7B	PINK		60	N/A	N/A	120	14
	total	**feet =**	**420**	**gal/min =**	**N/A**		**98**

Design Flow	**750**
Soil LTAR	**0.3**
LTAR with mod.	**0.6**

CALCULATIONS	Project #23-0144

VPPBPS 8' using GRAVITY distribution
Site location: 933 Brawley School Rd, Mooresville, Lot # N/A

PROJECT INFO	Designer	Ashley Rollans
	Project #	23-0144
	Project MM YYYY	1/19/2024
	Project Location	933 Brawley School Rd, Mooresville
	Lot # (if applicable)	N/A
	Subdivision (if applicable)	N/A
	Parcel #	4636781963
	Lot size (acres)	0
	Business (if applicable)	N/A
	Name (Owner)	Carter Jones
	Mailing Address (Owner)	939 Brawley School Rd
	City (Owner)	Mooresville
	State (Owner)	North Carolina
	Zip (Owner)	28117
	Phone (Owner)	816-728-6803
	Email (Owner)	carter.o.jones@oracle.com
	County	Iredell
	Salon	
	Water Source	Municipal
	Foundation Type	Crawl Space
	Daily Flow	750
SYSTEM	System LTAR	0.3
	System Type	VPPBPS 8'
	System Distribution	GRAVITY
	System Trench Center Distance (feet)	8
	System Trench Width (inches)	24
	System Trench Depth (inches)	30
	Soil Cap (inches)	
	Usable Soil Depth (inches)	52-60"
	Media Height (inches)	22
	Tank Size	1500
	Required Feet of Line (system)	417
	Designed Feet of Line (system)	420
REPAIR	Repair LTAR	0.3
	Repair Type	VPPBPS 8'
	Repair Distribution	LPP
	Repair Trench Center Distance (feet)	8
	Repair Trench Width (inches)	24
	Repair Trench Depth (inches)	30
	Soil Cap (inches)	0
	Usable Soil Depth (inches)	50-60"
	Tank Size	1500
	Required Feet of Line (repair)	417
	Designed Feet of Line (repair)	627

Sheet 1 of 1

PROPERTY ID #: 4636781963
COUNTY: Iredell

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

OWNER: Carter Jones
ADDRESS: 933 Brawley School Rd, Mooresville NC 28177
PROPOSED FACILITY: Hair Salon- 750 gallon per day/6 seats
LOCATION OF SITE: 933 Brawley School Rd, Mooresville NC 28177

APPLICATION DATE:
DATE EVALUATED: 11/30/2023
PROPERTY SIZE: 1.36
PROPERTY RECORDED: YES

WATER SUPPLY: ☐ Private ☐ Well ☐ Spring ☑ Other — Public
EVALUATION METHOD: ☐ Auger Boring ☑ Pit ☐ Cut
TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPR CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L/7%	0-4	BCL WFSBK	FR SS SP	f-csap	50	PS	N/A	PS 0.3-0.325
		4-*23	BRC WMSBK	FR SS SP					
		23-50	BRCL WFSBK	FR SS SP					
2	L/8%	0-7	RBCL WFSBK	FR SS SP	fFe depl qtz vein f-csap	52	PS	N/A	PS 27"+0.325
		7-21	RBC WFSBK/ABK	FR SS SP					
		21-27	BRC WFSBK	FR SS SP					
		27-52	RBCL WFSBK	FR SS SP					
3	L/8%	0-8	RBCL WFSBK	FR SS SP	csap	54	PS	N/A	PS 0.3-0.325
		8-27	BRC WMSBK	FR SS SP					
		27-54	RBCL WFSBK	FR SS SP					
4	L/7%	0-4	BL GR	FR SS SP	c-msap	65	PS	N/A	PS 0.3-0.325
		4-20	BRC WMSBK	FR SS SP					
		20-65	RBCL WFSBK	FR SS SP					
5	L/8%	0-19	BSCL WFSBK	FR SS SP	fsap	60	PS	N/A	PS 0.3
		19-37	BRC WMSBK	FR SS SP					
		37-60	BRCL WFSBK	FR SS SP					
6	L/7%	0-13	FILL/DISTURBED		fsap	58	PS	N/A	PS 0.3
		13-23	BSCL WFSBK	FR SS SP					
		23-58	BRC WMSBK	FR SS SP					
7	L/15%	0-11	RBSCL WFSBK	FR SS SP	FSAP	60	PS	N/A	PS 0.3-0.325
		11-27	BRC WMSBK	FR SS SP					
		27-60	BRCL WFSBK	FR SS SP					
		60-64	VAR L MASS	FR SS SP					
8									
9									
10									

LICENSED SOIL SCIENTIST SAMUEL A. ROLLANS 1231 STATE OF NORTH CAROLINA

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Types(s)	VPPBPS-GRAVITY-50%	VPPBPS-GRAITY-50%
Site LTAR	0.3	0.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Ashley Rollans
OTHER(S) PRESENT: Chad Wagner

COMMENTS:

I, BRIAN ALDERMAN, PLS, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN BOOKS/PAGES 701 / 565, 1856 / 1440, 701 / 565, 764 / 294); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN THE LISTED REFERENCES; THAT THE RATIO OF PRECISION AS CALCULATED EXCEEDS 1:10,000; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 08 TH DAY OF JANUARY, 2024.

I ALSO CERTIFY TO ONE OR MORE OF THE FOLLOWING AS INDICATED:

__ A. THAT THIS PLAT IS A SURVEY THAT CREATES A SUBDIVISION OF LAND WITHIN THE AREA OF A COUNTY OR MUNICIPALITY THAT HAS AN ORDINANCE THAT REGULATES PARCELS OF LAND;
__ B. THAT THIS PLAT IS A SURVEY THAT IS LOCATED IN SUCH PORTION OF A COUNTY OR MUNICIPALITY THAT IS UNREGULATED AS TO AN ORDINANCE THAT REGULATES PARCELS OF LAND;
X C. THAT THIS PLAT IS OF AN EXISTING PARCEL(S) OF LAND AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET;
__ D. THAT THIS PLAT IS OF A SURVEY OF ANOTHER CATEGORY, SUCH AS THE RECOMBINATION OF EXISTING PARCELS, A COURT-ORDERED SURVEY OR OTHER EXCEPTION TO THE DEFINITION OF SUBDIVISION;
__ E. THAT THE INFORMATION AVAILABLE TO THIS SURVEYOR IS SUCH THAT I AM UNABLE TO MAKE A DETERMINATION TO THE BEST OF MY PROFESSIONAL ABILITY AS TO PROVISIONS CONTAINING IN A THROUGH D ABOVE

BRIAN ALDERMAN, PLS # L-5517

NORTH CAROLINA PROFESSIONAL SEAL L-5517 LAND SURVEYOR BRIAN A. ALDERMAN

GPS SURVEY CERTIFICATION:

I, BRIAN ALDERMAN, PLS, CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL GPS SURVEY MADE UNDER MY SUPERVISION AND THE FOLLOWING INFORMATION WAS USED TO PERFORM THE SURVEY.

1. CLASS OF SURVEY: A (1:10,000)
2. POSITIONAL ACCURACY: < 0.10'
3. TYPE OF GPS SURVEY PROCEDURE: RTK NC NETWORK
4. DATE OF GPS SURVEY: 10.24.2023
5. DATUM/EPOCH: NAD83(2011)
6. PUBLISHED FIXED-CONTROL USED: "BOSTWALT"
7. GEOID MODEL: GEOID12b
8. COMBINED GRID FACTOR: 0.99985170
9. UNITS: US SURVEY FEET

UNLESS OTHERWISE NOTED, ALL DISTANCES SHOWN ARE HORIZONTAL GROUND DISTANCES. TO CONVERT TO GRID DISTANCE, MULTIPLY CSF BY THE COMBINED FACTOR

Owner Certificate
Know all men by these presents, that I (we) hereby certify that I am (we are) the owner(s) of the property shown and described hereon and that I (we) hereby acknowledge this plat and allotment to be my (our) free act and deed.

1/10/24
Date

Owner(s)

Deborah Fox
Notary Public
Iredell County
North Carolina
My Commission Expires 3/25/2024

Certificate of Approval for Recording
This plat is exempt from subdivision requirements pursuant to Section 8.5 of the Iredell County Land Development Code or NCGS 160D-802.

1-10-2024
Date

Subdivision Administrator

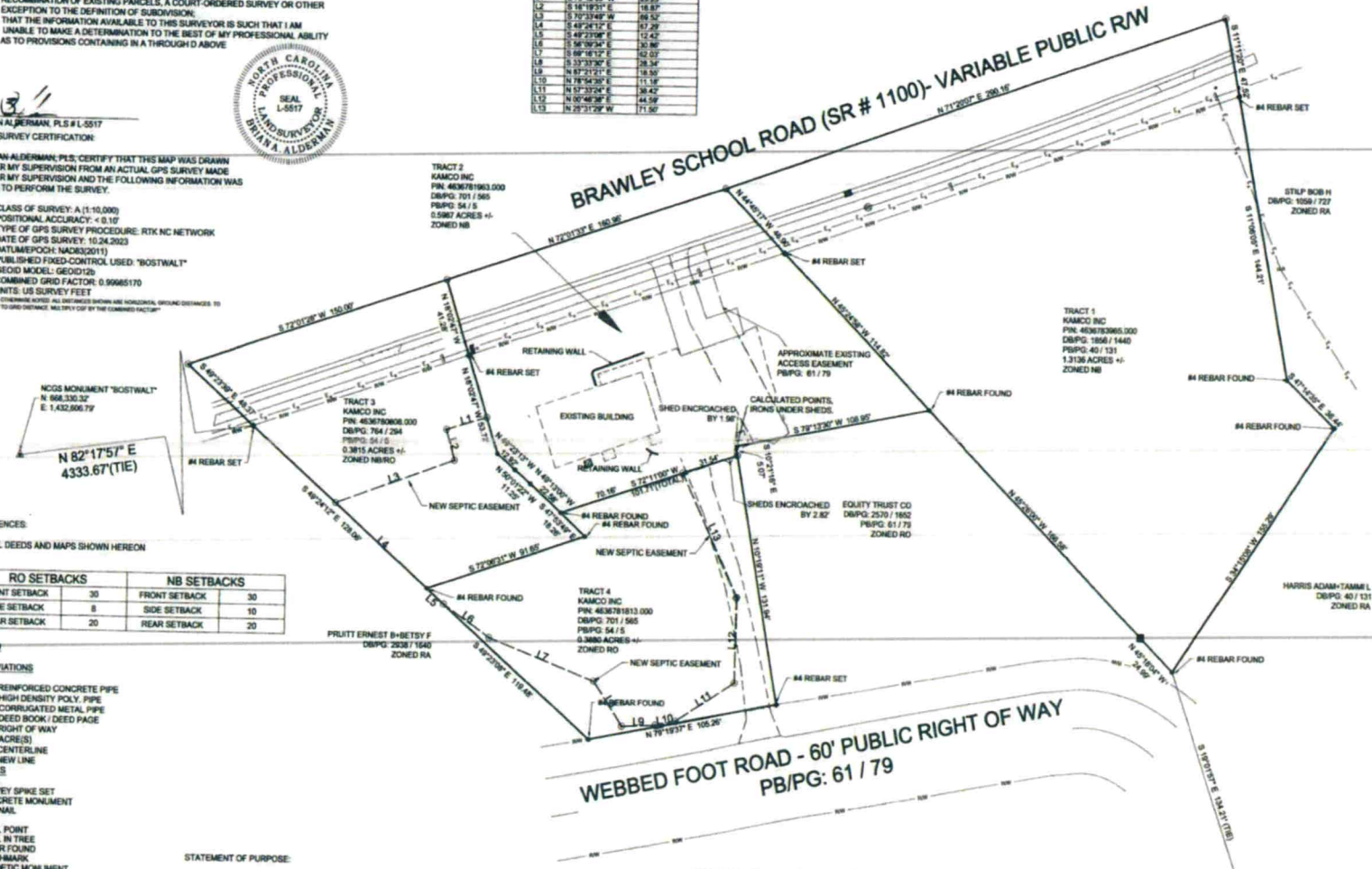
Review Officer Certificate
I, (name of Review Officer), Review Officer of Iredell County, certify that the map or plat to which this certification is affixed meets all statutory requirements for recording.

1-10-2024
Date

Review Officer

SEPTIC EASEMENT LINE TABLE

LINE	BEARING	DISTANCE
L1	S 73°42'05" W	23.23'
L2	S 16°19'31" E	16.87'
L3	S 70°03'49" W	89.52'
L4	S 48°24'12" E	67.29'
L5	S 48°23'08" E	12.42'
L6	S 56°39'34" E	30.86'
L7	S 89°16'13" E	42.03'
L8	S 33°33'36" E	38.34'
L9	N 67°21'21" E	18.55'
L10	N 78°54'39" E	11.18'
L11	N 52°33'24" E	38.42'
L12	N 00°48'38" E	44.59'
L13	N 29°31'29" W	71.50'



REFERENCES:

1. ALL DEEDS AND MAPS SHOWN HEREON

RO SETBACKS		NB SETBACKS	
FRONT SETBACK	30	FRONT SETBACK	30
SIDE SETBACK	8	SIDE SETBACK	10
REAR SETBACK	20	REAR SETBACK	20

LEGEND

ABBREVIATIONS

RCP	REINFORCED CONCRETE PIPE
HDPE	HIGH DENSITY POLY. PIPE
CMP	CORRUGATED METAL PIPE
DB/DP	DEED BOOK / DEED PAGE
R/W	RIGHT OF WAY
AC	ACRE(S)
C/L	CENTERLINE
NL	NEW LINE

SYMBOLS

- AXLE
- SURVEY SPIKE SET
- CONCRETE MONUMENT
- MAG NAIL
- PIPE
- CALC. POINT
- CALC. IN TREE
- REBAR FOUND
- BENCHMARK
- GEODETIC MONUMENT
- REBAR SET
- SANITARY MANHOLE
- MANHOLE
- WATER
- HVAC
- WATER VALVE
- FIRE HYDRANT
- GAS
- POWER POLE
- BOUNDARY LINE
- BOUNDARY BY DEED
- RIGHT-OF-WAY
- EASEMENT LINE
- 100YR 1% FLOOD LINE
- OVERHEAD POWER
- SETBACKS
- TOP OF STREAM BANK
- CL ROAD
- EXISTING BUILDINGS
- EXISTING STORM
- EXISTING GRAVEL
- EXISTING CONCRETE

STATEMENT OF PURPOSE:

1. THE PURPOSE OF THIS PLAT IS TO SURVEY THE EXISTING BOUNDARIES OF THE PARCELS SHOWN AND CREATE A SEPTIC EASEMENT.
2. THE NUMBER OF EXISTING LOTS (4) NUMBER OF NEW LOTS (0)
3. EXISTING ACREAGE AS SHOWN ON MAP

SURVEY NOTES:

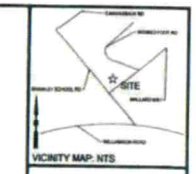
1. THIS PROPERTY IS SUBJECT TO THE MAINTENANCE OF ANY PUBLIC UTILITIES EVIDENT AND NOT EVIDENT AND TO ANY RIGHTS-OF-WAY, EASEMENTS, OR AGREEMENTS OF RECORD PRIOR TO OR AT THE DATE OF SURVEY.
2. THE CLIENT ACKNOWLEDGES THAT NO TITLE SEARCH OR OPINION OF TITLE OR OWNERSHIP IS IMPLIED OR CERTIFIED BY THE INFORMATION SHOWN ON THIS PLAT, AND THAT NO INVESTIGATION HAS BEEN MADE FOR EASEMENTS OF RECORD, ENCUMBRANCES, OR RESTRICTIVE COVENANTS, TITLE EVIDENCE, OR ANY OTHER FACTS THAT A CURRENT TITLE SEARCH MAY DISCLOSE.
3. THE CLIENT ACKNOWLEDGES THAT THIS PROPERTY MAY BE SUBJECT TO THE DEVELOPMENT RESTRICTIONS AS DESCRIBED IN THE CURRENT "IREDELL COUNTY" DEVELOPMENT ORDINANCES.

ALL LOTS SHOWN, TO THE BEST OF MY KNOWLEDGE, LIE WITHIN THE WS-IV(CA) OF THE CATAWBA RIVER (LAKE NORMAN) WATERSHED AS DESIGNATED BY THE NORTH CAROLINA DIVISION OF ENVIRONMENTAL MANAGEMENT AND AS APPEARS ON THE WATERSHED PROTECTION MAP OF IREDELL COUNTY.

Doc ID: 018710680001 Type: CRP
Recorded: 01/10/2024 at 03:41:04 PM
Fee Amt: $21.00 Page 1 of 1
Iredell County, NC
Renee L. Holland Register of Deeds
BK 82 PG 19

GRAPHIC SCALE
0 40 80 120
HORIZONTAL GROUND DISTANCE
1 INCH = 40 FT

NAD83(2011)



VICINITY MAP: NTS

A BOUNDARY SURVEY of SEPTIC EASEMENT FOR CARTER AND KRISTEN JONES

SUBJECT PROPERTY INFO:

PARCEL ID(S):
4636783965.000
4636781963.000
4636780808.000
4636781813.000

DEED BOOK & PAGE:
AS SHOWN ON MAP

CURRENT ZONING:
AS SHOWN ON MAP

PROPERTY LOCATION:
DAVIDSON TOWNSHIP
IREDELL COUNTY

OWNER INFORMATION:
KAMCO INC
939 BRAWLEY SCHOOL RD
MOORESVILLE, NC 28117

DATE OF SURVEY:
10.24.2023

DRAWN BY:
KMS

CHECKED BY:
BAA

PLAN NOTES:

1. PLAN NORTH IS BASED ON NAD83(2011)
2. AREAS COMPUTED USING THE COORDINATE METHOD
3. ANY TRAVERSE ADJUSTMENTS WERE PERFORMED USING THE LEAST SQUARES ADJUSTMENT METHOD
4. GEODETIC MONUMENTS WERE SURVEYED AS SHOWN
5. ALL DISTANCES ARE GROUND HORIZONTAL UNLESS OTHERWISE NOTED
6. PROPERTY MAY BE SUBJECT TO BURDENS OR BENEFITS NOT SHOWN ON MAP.
7. NO UNDERGROUND UTILITIES WERE LOCATED WITH THIS SURVEY. BEFORE DIGGING CALL NC ONE-CALL (1-800-632-4949).
8. ZONING DISTRICTS NOTED ARE PER GIS INFORMATION AVAILABLE TO THE PUBLIC
9. THE SUBJECT PARCEL(S) AND ANY ADJOINING PROPERTY OWNERS NAMES, DEEDS OF RECORD, AND TAX PARCEL IDENTIFICATIONS REFLECT THOSE AVAILABLE TO THIS SURVEYOR AS OF THE DATE OF THE SURVEY SHOWN

REVISION ISSUE

00	SEPTIC ESMT	01.08.2024

SUTHER ENGINEERING

FIRM No. P-1946
1316 S. MAIN ST. STE D
KANNAPOLIS, NC 28081