AW BLDR-2022-8746

# ICHD - ENVIRONMENTAL HEALTH DIVISION

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

PERMIT # OSWP-2022-6786

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

PIN # 4765-81-3105

APPLICANT / OWNER: SOIL AND FORESTRY SERVICES | APPLICANT ADDRESS: 126 3rd Creek Rd, Statesville, NC 28677

SITE ADDRESS: 120 LONEHART LN, STATESVILLE, NC 28625 | PHONE: (704) 746-5046 | ALT. PHONE:

SITE DIRECTIONS: East on 64, Right on Lone Pine, Right on Lonehart, Lot on Right | SAP CONTROLLED: YES ☐ NO ☑

SUBDIVISION: Lone Pines Meadow | SECTION: 3 | LOT #: 26 | LOT AREA: 0.68 | DESIGN FLOW: 360 | L.T.A.R.: 0.275

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Septic Tank: 1000 (gal) | STB: 760 | Date: 10/4/23 | ☑ New System ☐ Repair ☐ Expansion | System Type: III | ☑ Residence | No. Bedrooms: 3 | Water Supply: Other Public Water |
| Pump Tank: (gal) | PT: | Date: | System Description: 25% Reduction | | ☐ Business | No. Persons: 6 | |
| Pump Make: | Model: | Serial #: | Repair System Description: 50% Reduction- LPP PPBPS | | ☐ Other | No. Employees: 0 | |
| # Nitrification Fields: 1 | # Lines: 5 | Linear Ft.: 328 | Maintenance Agreement Required: ☐ YES ☑ NO | | ☑ Slab | ☐ Crawl Space | |
| Trench Width: 36 | Trench Bottom Depth (Low side): 30 | | Gravel Depth: 0 | ☑ GRAVITY ☐ PRESSURE | ☐ Basement w/ Plumbing | ☐ Basement w/o Plumbing | |

Comments / Conditions: Follow Site and design plan by Soil and Forestry Services of the Carolinas

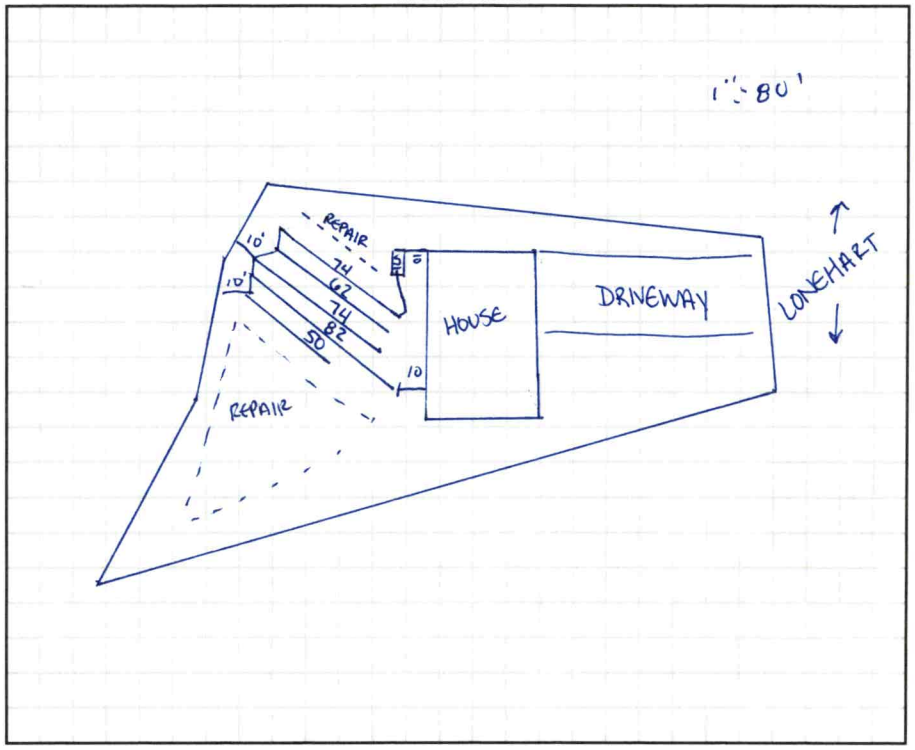
INITIAL SITE SKETCH

**This permit is issued pursuant to G.S. 130A-335(a2), (a3) & (a4) using the signed and sealed LSS/LG Evaluation attached here, from:**

SOIL AND FORESTRY SERVICES OF THE CAROLINAS

LSS# 1231

AS BUILT SKETCH




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: _____ Installed By: Conthran & Son

IMPROVEMENT PERMIT by: Burgett C. White Date: 10-26-2022 OPERATION PERMIT by: Sarah Williams Date: 12/22/23

AUTHORIZATION TO CONSTRUCT by: Burgett C. White Date: 10-26-2022 Existing System Inspected By: _____ Date: _____

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

County: IREDELL

***This Section for Local Health Department Use Only***

Initial submittal received: 10-17-2022 (Date) by BCW (Initials)

Permit Number: OSWP-2022-6786

G.S. 130A-335(a6) states the following: *'If a local health department fails to act on an application for a construction authorization submitted pursuant to subsection (a5) of the section within 10 business days of receipt of a complete application, the local health department shall issue the construction authorization.'*

In accordance with G.S. 130A-335(a5) the construction authorization application is:

☐ Incomplete (If box is checked, information in this section is required.)

The following items are missing: _____

_____

Copies of this were sent to the AOWE/PE and the Owner on _____ (Date)

State Authorized Agent: _____ Date: _____

☐ Denied (See attached report.)

Copies of this were sent to the AOWE/PE and the Owner on _____ (Date)

State Authorized Agent: _____ Date: _____

☑ Complete

State Authorized Agent: Bryant C. White Date of Issuance: 10-26-2022

**This Construction Authorization is issued pursuant to G.S. 130A-335(a2), (a5), and (a6) using the signed and sealed plans or evaluations attached here. This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes, or if information submitted in the application was falsified, inaccurate or misleading. 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 the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit. The location and identification of all property lines, easements, water lines, and other appropriate utilities shall be the responsibility of the owner. Final landscaping shall be constructed to divert water and establish vegetative cover.**

**The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to plans, evaluations, preconstruction conference findings, submittals, or actions from a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), (a5), and (a7). The Department, the Department's authorized agents, and the local health departments shall be responsible and bear liability for their actions and evaluations and other obligations under State law or rule, including the issuance of the operations permit pursuant to GS 130A-337.**

**Construction Authorization Expiration Date:** 10-26-2027

***See attached site sketch***

County: IREDELL

***This Section for Local Health Department Use Only***

Initial submittal received: 10-17-2022 (*Date*) by BCW (*Initials*)

Permit Number: OSWP-2022-6786

G.S. 130A-335(a4) states the following: *'If a local health department fails to act on an application for an improvement permit submitted pursuant to subsection (a3) of the section within 10 business days of receipt of a complete application, the local health department shall issue the improvement permit.'*

In accordance with G.S. 130A-335(a3) the improvement permit application is:

☐ Incomplete (If box is checked, information in this section is required.)

The following items are missing:

_____

_____

Copies of this were sent to the LSS and the Owner on _____ (*Date*)

State Authorized Agent: _____ Date: _____

☐ Denied (See attached report.)

Copies of this were sent to the LSS and the Owner on _____ (*Date*)

State Authorized Agent: _____ Date: _____

☑ Complete

State Authorized Agent: Bryant C. White Date of Issuance: 10-26-2022

**This Improvement Permit is issued pursuant to G.S. 130A-335 (a2), (a3), and (a4) using the signed and sealed LSS/LG evaluation(s) attached here. The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This site is subject to revocation if the site plan, plat, or the intended use changes, or if information submitted in the application was falsified, inaccurate or misleading. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit. The location and identification of all property lines, easements, water lines, and other appropriate utilities shall be the responsibility of the owner.**

**The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to evaluations, submittals, or actions from a licensed soil scientist or licensed geologist pursuant to GS 130A-335(a2).**

**Improvement Permit Expiration Date:** 10-26-2027

***See attached site sketch***

County: Iredell

**IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)/SL2022-11**

PIN/Lot Identifier: 4765813105

Issued To: Porter Builders

Property Location: 170 Lonehart Lane, Statesville NC 28625

Subdivision: Lone Pine Meadows Lot #: 26 Block: N/A Section: N/A

LSS Report Provided: Yes ☒ No ☐

If yes, name and license number of LSS: Samuel Ashley Rollans #1231

New ☒ Repair ☐ Expansion ☐ System Relocation ☐

Proposed Structure: Residence

Proposed Wastewater System Type: Accepted (Gravity) (Initial) PPBPS (Low Pressure) (Repair)

Fill System: ☐ Yes ☒ No If yes, specify: ☐ New ☐ Existing (when adding more than 6 inches of fill to system area please provide a fill plan)

Proposed Design Daily Flow: 360 GPD Proposed LTAR (Initial): 0.275 Proposed LTAR (Repair): 0.25

Design Wastewater Strength: ☒ domestic ☐ high strength ☐ industrial process

Number of bedrooms: 3 Number of Occupants: 6 Other:

Pump Required: ☐ Yes ☒ No ☐ May be required based upon final location and elevations of facilities

Artificial Drainage Required: ☐ Yes ☒ No If yes, please specify details:

Type of Water Supply: ☐ Private well ☐ Public well ☒ Municipal Supply ☐ Spring ☐ Other:

Drainfield location meets requirements of Rule .1945: Yes ☒ No ☐

Drainfield location meets requirements of Rule .1950: Yes ☒ No ☐

Permit valid for: ☒ Five years [site plan submitted pursuant to GS 130A-334(13a)] ☐ No expiration [plat submitted pursuant to GS 130A-334(7a)]

Permit conditions:

Licensed Soil Scientist Print Name: Samuel Ashley Rollans

Licensed Soil Scientist Signature: Samuel A Rollans Date: 10/7/22

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

*See attached site sketch*

County: Iredell

**CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)/SL2022-11**

PIN/Lot Identifier: 4765813105

Issued To: Porter Builders

Property Location: 120 Lonehart Lane, Statesville NC 28625

AOWE/PE Plans/Evaluations Provided: Yes ☑ No ☐ If yes, name and license number of AOWE/PE: Samuel Ashley Rollins 10027

Facility Type: Residence

☑ New ☐ Expansion ☐ Repair System Relocation ☐

Basement? ☐ Yes ☑ No Basement Fixtures? ☐ Yes ☑ No

Type of Wastewater System** Accepted (Gravity) (Initial) PPBPS (Low Pressure) (Repair)

Design Daily Flow: 360 GPD Wastewater Strength: ☑ domestic ☐ high strength ☐ industrial process

Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? ☐ Yes ☑ No

**Installation Requirements/Conditions**

Septic Tank Size: 1000 gallons Total Trench/Bed Length: 328 feet Trench/Bed Spacing: 9 feet on center

Drainfield square footage: 984 Trench/Bed Width: 36 inches LTAR: 0.275 gpd/ft²

Soil Cover: 6 inches min Slope Adjusted Maximum Trench/Bed Depth: 30 inches LOWSIDE

Aggregate Depth: N/A inches above pipe N/A inches below pipe N/A inches total

Pump Tank Size (if applicable): N/A gallons Requires more than 1 pump? ☐ Yes ☐ No

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

Distribution Method: ☑ Serial ☐ D-Box or Parallel ☐ Pressure Manifold(s) ☐ LPP ☐ Other:

Artificial Drainage Required: Yes ☐ No ☑ 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 [.1937(h)]: Yes ☐ No ☑

Easement, Right-of-Way, or Encroachment Agreement Required [.1938(j)]: ☐ Yes ☑ No

Declaration of Restrictive Covenants: ☐ Yes ☑ No

****If applicable:**

*I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.*

Owner/Legal Representative Print Name:

Owner/Legal Representative Signature: Date:

Pre-Construction Conference Required: Yes ☐ No ☑

Conditions:

The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by reference into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.

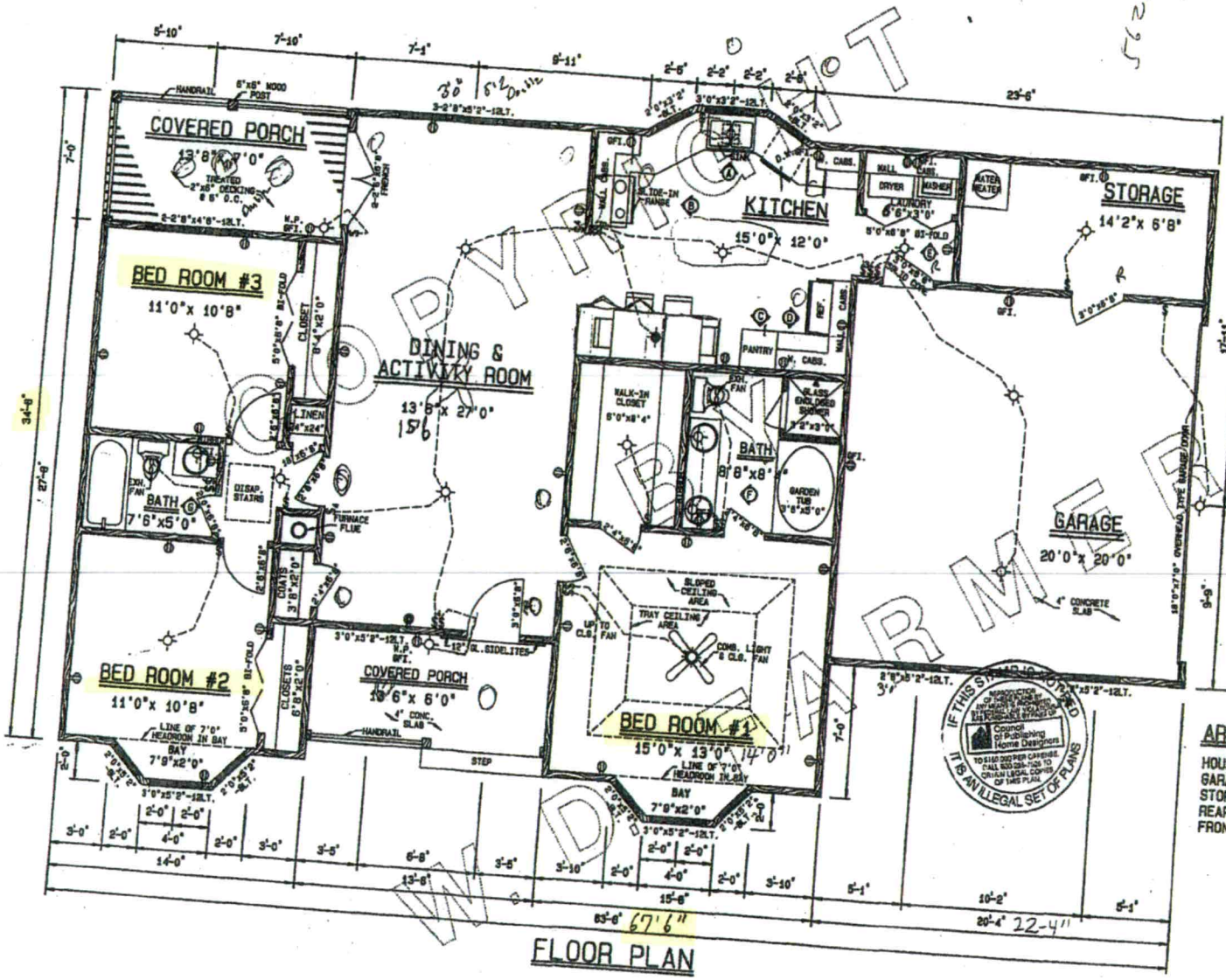
AOWE/PE Print Name: Samuel Ashley Rollins

AOWE/PE Signature: Samuel A. Rollins Date: 10/7/22

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

*See attached site sketch*

120 Lonehart Lane




FLOOR PLAN

## ENERGY CODE NOTE

THIS PLAN CONTAINS THE FOLLOWING ENERGY FEATURES

WALLS: R-14.6 R-13 FULL THICK BATTS (FOR GEORGIA TYPE CONSTRUCTION)
CEILING: R-30
FLOORS: R-13 OVER UNHEATED BASEMENT OR CRAWL SPACE
R-5 CODE OF CONCRETE SLAB
WINDOWS: WOOD FRAME, 3/16" INSULATING GLASS (GEORGIA MINIMUM)

## NOTE:

1. THE MAKE, MODEL No., LOCATION OF THE FOLLOWING OPTIONAL EQUIPMENT TO BE SELECTED BY OWNER
   - A. CENTRAL VACUUM SYSTEM
   - B. MASTER RADIO-INTERCOM SYSTEM & STATIONS
   - C. SECURITY SYSTEM (BURGLAR & FIRE)
   - D. MASTER T.V. ANTENNA AND JACKS
   - E. EXTERIOR FLOODLIGHTS, ACCENT LIGHTING AND SWITCHING
   - F. TELEPHONE JACKS
   - G. ELECTRIC GARAGE DOOR OPENER
2. FLOOR, CEILING AND RAFTER BASED ON No. 2 S.Y.P. (OR WITH EMPIRICAL DESIGN CRITERIA BASED ON 1991 NFPA SPAN TABLES AND 1991 SPIB GRADING RULES) DESIGN VALUES BASED ON:
   FLOOR JOISTS:
   40 psf. LIVE LOAD, 10 psf DEAD
   CEILING JOISTS:
   20 psf. LIVE LOAD, 10 psf DEAD
   RAFTERS:
   20 psf. LIVE LOAD, 15 psf. DEAD
   EXTERIOR BALCONIES & DECKS:
   60 psf. LOAD
   SNOW:
   10 psf. LOAD
   WIND:
   80 M.P.H. BASIC WIND SPEED
3. FURNACE & WATER HEATER USING FUEL REQUIRES FRESH AIR VENT OUTSIDE FOR COMBUSTION AIR AT RATE OF 1 SQ. IN. OF FREE AREA PER 1000 B.T.U.
4. GARAGE AREA REQUIRES 1/2" GYP. BOARD OR EQUIVALENT APPLIED TO CEILINGS & WALLS

## AREAS

| | | |
|---|---|---|
| HOUSE | 1381 | SQ. FT. |
| GARAGE | 413 | SQ. FT. |
| STORAGE | 106 | SQ. FT. |
| REAR PORCH | 96 | SQ. FT. |
| FRONT PORCH | 81 | SQ. FT. |

CONTRACTOR MUST CHECK ALL DIMENSIONS AT SITE

**WARNING:** CRITICAL INFORMATION ON THESE PRINTS MAY DISAPPEAR WHEN EXPOSED TO SUDDEN INTENSE LIGHT i.e. COPY MACHINE

Bryant C. White
10-27-2022

NEW AREA CODE
PHONE (770) 934-7380
FAX (770) 934-1700

PLAN NO. 384-
W.D. FARMER
RESIDENCE DESIGNS

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Project#: 22-0104
September 1, 2022

**Porter Builders**
Attn: *Bruce Porter*
Email: 2xpapa2012@gmail.com

**RE: Soil& Site Evaluation for a 3 Bedroom Residence (Crawl Space) at 120 Lonehart Lane, 0.68 ac Parcel, PIN# (4765813105), Statesville, NC 28625.**

Bruce:

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 submittal to Iredell County Health Department.

Site Conditions

At the time of our evaluation land cover on the property was mostly open/cleared. Topography within the evaluated area was gentle slope near the house site and gentle slope near the proposed drainfield area. Property lines and corners were marked at the time of the evaluation by survey. The attached Survey was utilized to produce a Site Plan for the design. The proposed septic layout was located via Trimble Submeter GPS and used to produce the attached *Site Plan*. The house envelope was staked by survey. The attached Survey provided has building setbacks to property lines. Lot has public water.

Methodology

We evaluated soil areas through the use of backhoe pits and auger borings. Soil morphological conditions including color, texture, structure, etc. were reviewed in the field with six pit locations and 3 auger borings on the property flagged and located via GPS. All but one boring and one pit 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/pit. Approximately 10 inches of the fill material encountered on portions of the proposed layout was removed. We were present during the removal process. The house envelope 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 GPS. Detailed system & repair information is summarized in the following paragraph for this Lot.

120 Lonehart Lane (*See Attached Design*)
The septic layout for this lot (9' centers) yielded a total of 649 linear feet of line. The primary system is proposed as 328 linear feet of drainfield with gravity distribution. Trench depth is specified at 30 inches (LOW SIDE). The repair system is proposed as 240 linear feet of Modified Conventional (PPBPS) drainfield with low pressure distribution. Trench depth is specified at 30 inches (LOW SIDE). There is 296 linear feet of line 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 Bruce Porter
Signature Bruce Porter 10-12-22

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 120 Lonehart Ln Statesville, NC 28625. 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 1231 STATE OF NORTH CAROLINA

S. Ashley Rollans, LSS
Attachment: *Septic Design*

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

**Attached is a proposed design for an Accepted Septic System with gravity dist. for a 3 bedroom single family residence at 120 Lonehart Ln, Statesville, NC 28625 (PIN 4765813105), Iredell County, North Carolina.**

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Design Information
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LICENSED SOIL SCIENTIST
Samuel A. Rollins
1231
STATE OF NORTH CAROLINA

**September 1, 2022**
**Project #: 22-0104**
**Design By: Soil & Forestry Services of the Carolinas, PA.**

# INFORMATION FOR THE INSTALLER:

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 NC DHHS, and certification supplied by the manufacturer.
- Tanks shall be water tested prior to installation.
- 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 structure.
- All fittings shall be pressure rated fittings.
- All joints shall be cleaned with PVC pipe cleaner and a heavy bodied glue applied to weld all joints.
- Where required by the county health department, post installation inspections by the designer must be scheduled 5 week days in advance.
- Trenches shall be carefully excavated so the bottom 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 for installation.
- Elevations at pinflag locations should be checked by the installer prior to beginning trenches.
- Septic tank riser shall be a minimum of 6" above finished grade.
- System is specified as a gravity 25% reduction (Accepted) installation.
- Repair is specified as a pump PPBPS system with Low Pressure Distribution.

# GRAVITY ACCEPTED SYSTEM
# FOR WASTEWATER TREATMENT

| | |
|---|---|
| **Applicant:** | Porter Builders |
| **Address:** | 2143 Mocksville Highway<br>Statesville, NC 28625 |
| **Phone:** | 704.902.3124 |
| **County:** | Iredell |
| **Location:** | 120 Lonehart Lane<br>Statesville, NC 28625 |
| **Source of Wastewater Flow:** | 3 Bedroom Single Family Residence |
| **Estimated Gallons Per Day Flow:** | 360 |
| **System Flow:** | N/A |

## Design Specifications

| | | |
|---|---|---|
| **Drainfield Size:** | 328 | |
| **Loading Rate (gpd/ft.$^2$):** | 0.275 | |
| **Depth of Gravel in Trench:** | N/A | |
| **Gravel Size:** | N/A | |
| **Trench Depth (LOW SIDE):** | 30 in. | Repair Trench Bottom 30 in. |
| **Trench Width:** | 36 in. | |
| **Septic Tank Size:** | 1000 | |
| **Estimated Supply Line Length:** | 14 | |
| **Supply Line Diameter:** | 4 in. SCH 40 PVC | |
| **Supply Line Volume:** | 9.14 | |
| **Dosing Volume:** | N/A | |
| **Supply Manifold:** | N/A | |
| **Supply Manifold Length:** | N/A | |
| **Supply Manifold Volume:** | N/A | |
| **Recommended Float Controls:** | N/A | |
| **Recommended Control Panel:** | N/A | |
| **Pressure Head:** | N/A | |
| **Friction Head:** | N/A | |
| **Elevation Head:** | N/A | |
| **Total Dynamic Head:** | N/A | |
| **Threaded Union:** | N/A | |
| **Gate Valves:** | N/A | |
| **Check Valves:** | N/A | |
| **Anti-Siphon Hole:** | N/A | |
| **Additional Comments:** | Soil suitability was performed by Soil & Forestry Services of the Carolinas, PA. | |

## 120 Lonehart Lane

## ACCEPTED SYSTEM

| | |
|---|---|
| **DESIGN FLOW (gpd):** | 360 |
| **SOIL APPLICATION RATE (gpd/ft.$^2$):** | 0.275 |
| **TOTAL AREA TRENCH BOTTOM:** | 984 |
| **TOTAL LATERAL LENGTH:** | 328 |
| **NUMBER OF FIELDS:** | 1 |
| **LATERAL LENGTH REQUIRED PER FIELD:** | 327.2727273 |
| **SUPPLY LINE LENGTH:** | 10 |
| **TOTAL DYNAMIC HEAD:** | N/A |
| **MANIFOLD SIZE:** | N/A |
| **DOSING VOLUME:** | N/A |
| **PUMP TANK DRAW DOWN*:** | N/A |
| **SEPTIC TANK SIZE:** | 1000 |

# Layout Specifications - 120 Lonehart Ln- Lot 26

Project #: 22-0104

LAYOUT FOR 3 BEDROOM HOME

September 1, 2022

| LINE # | FLAG COLOR | BS | HI | FS | ELEVATION | FLAGGED LINE LENGTH | DESIGN LINE LENGTH |
|---|---|---|---|---|---|---|---|
| TBM | | | | | | | |
| INSTR. 1 | | | | | | | |
| 1 | RED | | | | | 40 | 40 |
| *2* | ***ORANGE*** | | | | | *55* | *52* |
| *3* | ***YELLOW*** | | | | | *61* | *60* |
| *4* | ***BLUE*** | | | | | *72* | *72* |
| *5* | ***PINK*** | | | | | *82* | *80* |
| *6* | ***RED*** | | | | | *83* | *64* |
| 7 | ORANGE | | | | | 76 | 76 |
| 8 | YELLOW | | | | | 63 | 63 |
| 9 | BLUE | | | | | 55 | 55 |
| 10 | PINK | | | | | 36 | 36 |
| 11 | RED | | | | | 26 | 26 |
| | | | | | **Total** | 649 | 624 |

| | LINE LENGTH | LTAR GPD/FT2 | SYSTEM TYPE | SOIL LTAR GPD/FT2 | TRENCH SYSTEM | DISTRIBUTION | LOW SIDE TRENCH DEPTH |
|---|---|---|---|---|---|---|---|
| **** System*** | *328* | *0.275* | *ACCEPT.* | *0.275* | *ACCEPT.* | *GRAVITY* | 30" |
| Repair | 296 | 0.250 | MOD. CONV. | 0.250 | PPBPS | LOW PRESSURE | 30" |

Notes: **All measures in feet

**Nitrification lines are demonstrated on contour via colored pin flags

****HOUSE STAKED BY SURVEY.**

SCALE
1" = 40'
N58°20'27"W 227.89'
N36°50'43"W 316.10'
N15°20'59"W 224.16'
S18°56'
S81°2
120.00
65' FY
DRIVE
BRIGHAMSMALE
HOUSE
(50' X 70')
34,596.19 SQ FT
0.794 AC.
HOUSE
(49' X 70')
29,635.10 SQ FT
0.680 AC.
C14
C15
C23
18"RCP
L6
L7
L8
L9
P1
P2
P3
P4
P5
P6
P7
ST
INSTALL 96')
INSTALL 100')
INSTALL 104')
149.26'
149.79'
100.76'
100.18'
64.27'
124.49'

## CALCULATIONS

Location 120 Lonehart Lane
Statesville, NC 28625
Project Number 22-0104

Lot No: 26 Lone Pine Meadows

No. of Bedrooms 3

Design Flow 360 $^{gal}/_{day}$

LTAR 0.275 $^{gal}/_{ft^2\,day}$

PPBPS? (YES OR NO) NO

Supply Line Length 14 ft.

Supply Line Volume 9.142 gal.

Required Feet of Line 327.2727 ft.
Amount of Line from Layout 328 ft.

Gallons per Minute N/A $^{gal}/_{min}$

Required Septic Tank Capacity 1000 gal.
Septic Tank Size 1000 gal.

Panel Volume N/A gal.
# of Panels N/A
Dosing Volume N/A gal.

Tank Draw Down N/A

Pump Run Time

Elevation Head N/A ft.
Pressure Head N/A ft.
Friction Factor N/A ft./100 ft. *(From the interpolater.)*
Friction Head N/A ft.

Total Dynamic Head (+15%) N/A ft.

FRICTION FACTOR
INTERPOLATER
2" SCH 40 PVC

| GPM | *f* |
|---|---|
| 20 | 0.84 |
| | -0.88 |
| 25 | 1.27 |
| | -1.28 |
| 30 | 1.78 |
| | -1.76 |
| 35 | 2.37 |
| | -2.25 |
| 40 | 3.03 |
| 43.07 | 3.48 |
| 45 | 3.77 |
| 48.14 | 4.28 |
| 50 | 4.58 |
| 57.11 | 5.89 |
| 60 | 6.42 |

PROPERTY ID #: _4765813105_
COUNTY: _Iredell_

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

OWNER: _Bruce & Theresa Porter_ APPLICATION DATE_____
ADDRESS: _2143 Mocksville Hwy, Statesville, NC 28625_ DATE EVALUATED: _8/2/22_
PROPOSED FACILITY: _new house_ PROPOSED DESIGN FLOW (.1949): _360 GPD_ PROPERTY SIZE: _0.68_
LOCATION OF SITE: _120 Lonehart Ln Statesville NC 28625_ PROPERTY RECORDED: YES_____
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 | |
| B 1 | L/7% | 0-13 | FILL | | FEW MN, FE DEPL 22-28 FEW WHITE LITHO | 35 | | | PS 0.25 |
| | | 13-18 | RBSCLWFSBK | FRSSSP | | | | | |
| | | 18-48 | BRCWFABK/SBK | FRSSP | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| B 2 | L/10% | 0-7 | BSLG | FRSSSP | | 48 | | | PS 0.3 |
| | | 7-13 | RBSCLWFSBK | FRSSSP | | | | | |
| | | 13-44 | BRCWFSBK/ABK | FRSSSP | FEW SAP | | | | |
| | | 44-48 | RBCLWFSBK | FRSSSP | FEW SAP | | | | |
| | | | | | | | | | |
| B 3 | L/3% | 0-13 | RBSCLWFSBK | FRSSSP | FEW SAP FE DEPL 20-26 | 48 | | | PS. 0.275-0.3 |
| | | 13-48 | BRCWMABK/SBK | FRSSP | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| P 1 | L/5% | 0-10 | FILL | | | 52 | | | PS 0.275-0.3 |
| | | 10-16 | RBCLWFSBK | FRSSP | | | | | |
| | | 16-62 | BRCWMSBK/AK | FRSSP | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.1945) | PS | PS |
| System Type(s) | ACCEPTED | PPBPS |
| Site LTAR | 0.275 | 0.25 |

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _PS_

EVALUATED BY: _Ashley Rollans_
OTHER(S) PRESENT: _Mason Freeman_

LICENSED SOIL SCIENTIST Ashley A. Rollans 1291 STATE OF NORTH CAROLINA

COMMENTS: _____

## SOIL/SITE EVALUATION

*(Continuation Sheet-Complete all field in full)*



PROPERTY ID #:4765813105
DATE OF EVALUATION: 8/2/22
COUNTY: Iredell

| PROFILE # | .1940 LANDSCAPE POSITION/ SLOPE % | HORIZON DEPTH (IN.) | SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE | .1941 CONSISTENCE/ MINERALOGY | OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR | .1943 SOIL DEPTH | .1956 SAPRO CLASS | .1944 RESTR HORIZ | PROFILE CLASS & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| P 2 | L/5% | 0-16 | FILL | | FEW WHITE MINNERALS | 46 | | | PS 0.3 |
| | | 16-22 | RBSCLWFSBK | FRSSSP | | | | | |
| | | 22-55 | BRCWMSBK/ABK | FRSSP | | | | | |
| | | 55-62 | RBCLWMSBK | FRSSSP | | | | | |
| | | | | | | | | | |
| P 3 | L/5% | 0-16 | FILL | | | 44 | | | PS 0.275 |
| | | 16-24 | RBCLWFSBK | FRSSSP | | | | | |
| | | 24-60 | RBWMSBK/ABK | FRSSSP | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| P 4 | L/5% | 0-16 | FILL | | COM MN | 44 | | | PS 0.25 |
| | | 16-42 | RBCWMSBK/ABK | FRSSSP | | | | | |
| | | 42-60 | BRCWMSBK/ABK | FSSSP | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| P 5 | L/5% | 0-15 | FILL | | COMPACTED COMM MN | 45 | | | PS 0.25 |
| | | 15-21 | BCLWFSBK | FRSSSP | | | | | |
| | | 21-60 | RBCWMSBK/ABK | FRSSP | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| P 6 | L/5% | 0-16 | FILL | | FWR | 44 | | | PS 0.25 |
| | | 16-23 | BCLWFSBK | FSSSP | | | | | |
| | | 23-60 | RBCWMSBK/ABK | FSSSP | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

COMMENTS: **Approximately 10 inches of fill material was removed from the area we encountered fill. Soil profile descriptions are prior to the fill removal.**

# PERMIT SNAPSHOT REPORT OSWP-2022-6786 FOR IREDELL COUNTY

**Permit Type:** Environmental Health OSWP
**Work Class:** EH Septic Improvement Permit
**Status:** PRIORITY PERMIT
**Valuation:** $0.00
**Description:** SESSION LAW

**Project:**
**District:** Iredell County
**Square Feet:** 0.00
**Assigned To:** White, Bryant

**App Date:** 10/12/2022
**Exp Date:** NOT AVAILABLE
**Completed:** NOT COMPLETED
**Approval Expire Date:**

**Parcel:** 4765813105.000 Main
**Address:** 120 Lonehart Ln Statesville, NC 28625 Main
**Zone:** R-20(Suburban Residential District)

Applicant/Authorized Agent
SOIL AND FORESTRY SERVICES
126 Third Creek Rd
Statesville, NC 28677
Business: (704) 746-5046

Property Owner
ALAN PORTER BRUCE
2143 MOCKSVILLE HWY
STATESVILLE, NC 28625
Business: (704) 878-9314

**Permit Custom Fields**

| | | | | | |
|---|---|---|---|---|---|
| How is your site plan being submitted | Custom Site Plan | Does the site contain any jurisdictional wetlands | No | Non-domestic Sewage Generated | No |
| Other Public Agency | No | All proposed structure dimensions | 49X70 | What are the proposed structures | New Single Family Residence |
| If other Addition/Structure, please explain | | Maximum Number of Bedrooms | 3 | Number of Occupants | 6 |
| Foundation Type | Concrete Slab Foundation | Water Supply | New Well | Desired Septic System Type | Other |
| If other septic system type, please explain | Accepted (gravity) | Has this project been approved by TRC | No | Lot Acreage | 0.68 |
| Front Setback | 35 | Back Setback | 35 | Left Setback | 15 |
| Right Setback | 15 | Zoning Permit Issued Date | Oct 13 2022 12:00AM | Zoning Permit Expiration Date | Apr 11 2023 12:00AM |
| Is the structure or development in the floodplain | No | Is the property in a local historic district? | No | Is the property located downtown? | No |
| Additional Unique Setbacks Apply | No | Watershed | NOT IN A WATERSHED | | |

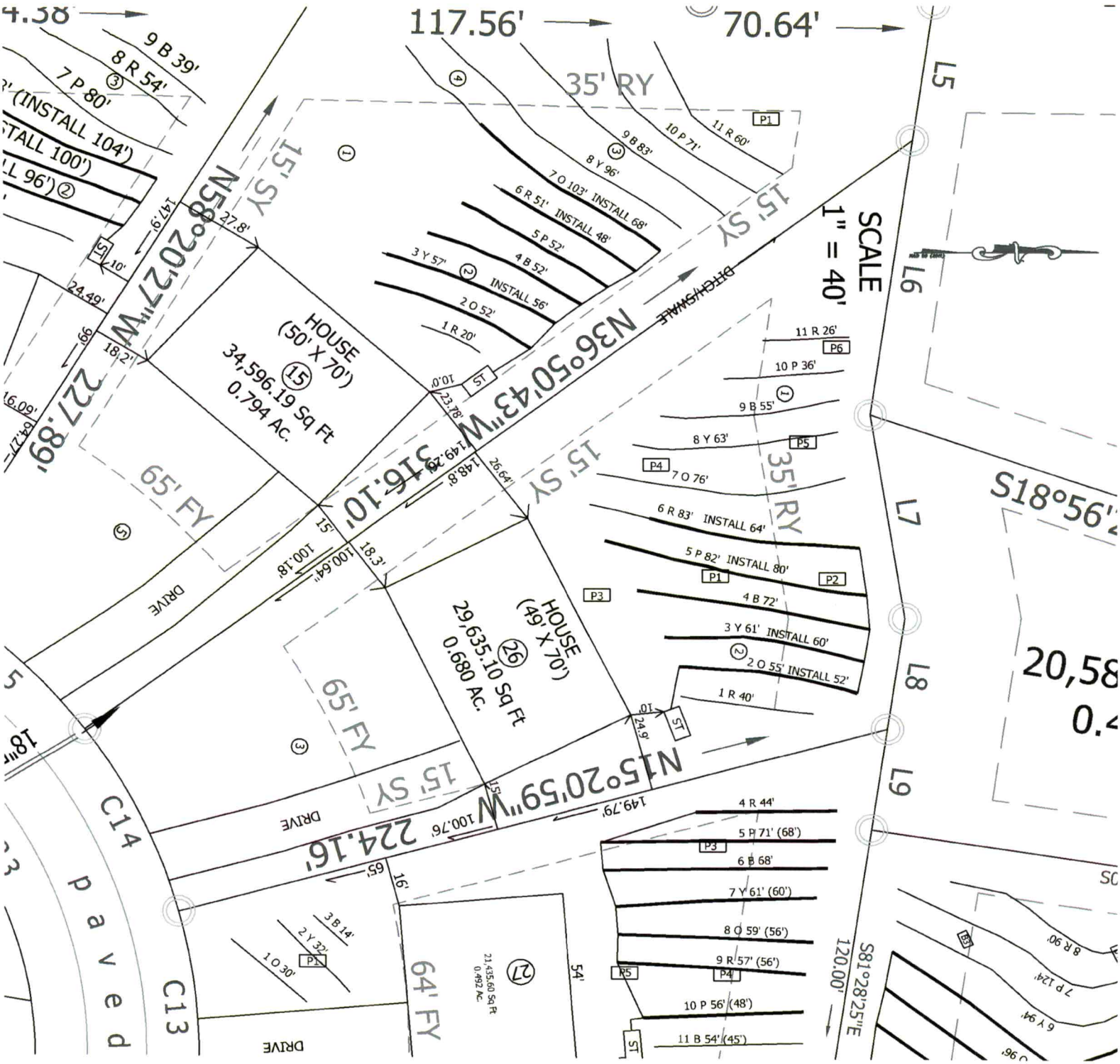
| Attachment File Name | Added On | Added By | Attachment Group | Notes |
|---|---|---|---|---|
| Signature_Randi_Williams_10/12/2022.jpg | 10/12/2022 11:00 | Williams, Randi | | Uploaded via CSS |
| Agent_Form_120_Lonehart_v2.pdf | 10/12/2022 13:00 | Williams, Deborah | Available Online | Authorize to Act as Agent |
| Session_Law_120_Lonehart_v2.pdf | 10/12/2022 13:00 | Williams, Deborah | Available Online | Site Plan |
| SITEPLAN_120_Lonehart_v1.pdf | 10/12/2022 13:00 | Williams, Deborah | Available Online | Site Plan |

| Invoice No. | Fee | Fee Amount | Amount Paid |
|---|---|---|---|
| INV-00003533 | Iredell Zoning Permit Fee | $75.00 | $75.00 |
| | Iredell Zoning Tech Fee | $2.25 | $2.25 |
| | New Gravity System | $500.00 | $500.00 |
| | Total for Invoice INV-00003533 | $577.25 | $577.25 |
| | **Grand Total for Permit** | **$577.25** | **$577.25** |

| Workflow Step / Action Name | Action Type | Start Date | End Date |
|---|---|---|---|
| **Application Completeness Check v.1** | | 10/12/2022 0:00 | 10/12/2022 13:00 |
| Confirm application complete v.1 | Generic Action | | 10/12/2022 13:00 |
| **Zoning Review v.1** | | 10/12/2022 0:00 | 10/13/2022 10:06 |
| Iredell County Zoning Approval v.1 | Task | 10/12/2022 0:00 | 10/12/2022 13:01 |
| Issue Invoice v.1 | Generic Action | | 10/12/2022 13:01 |
| Fees Paid v.1 | Generic Action | | 10/13/2022 10:06 |

# PERMIT SNAPSHOT REPORT (OSWP-2022-6786)

| | | | |
|---|---|---|---|
| **Fees v.1** | | 10/13/2022 0:00 | 10/13/2022 11:32 |
| Issue Invoice v.1 | Generic Action | | 10/13/2022 11:32 |
| Fees Paid v.1 | Generic Action | | 10/13/2022 11:32 |
| **Lot Readiness Verification v.1** | | | |
| ~~OSWP Septic Preliminary Site Visit v.1~~ | Inspection | | 10/13/2022 11:33 |
| OSWP Site Evaluation v.1 | Inspection | | |
| Issue Improvement Permit v.1 | | | |
| Issue Invoice v.1 | Generic Action | | |
| Fees Paid v.1 | Generic Action | | |
| Issue Permit v.1 | Generic Action | | |
| Permit Completion Process v.1 | | | |
| Authorization to Construct Permit v.1 | Create Sub Permit | | |
| Issue Authorization to Construct v.1 | Generic Action | | |


117.56'
70.64'
35' RY
15' SY
SCALE
1" = 40'
L5
L6
L7
L8
L9
N58°20'27"W 227.89'
N36°50'43"W 316.10'
N15°20'59"W 224.16'
S81°28'25"E 120.00'
S18°56'
HOUSE
(50' X 70')
34,596.19 Sq Ft
0.794 Ac.
HOUSE
(49' X 70')
29,635.10 Sq Ft
0.680 Ac.
65' FY
64' FY
DRIVE
C13
C14
paved
9 B 39'
8 R 54'
7 P 80'
(INSTALL 104')
(INSTALL 100')
9 B 83'
10 P 71'
11 R 60'
8 Y 96'
7 O 103' INSTALL 68'
6 R 51' INSTALL 48'
5 P 52'
4 B 52'
3 Y 57'
INSTALL 56'
2 O 52'
1 R 20'
11 R 26'
10 P 36'
9 B 55'
8 Y 63'
7 O 76'
6 R 83' INSTALL 64'
5 P 82' INSTALL 80'
4 B 72'
3 Y 61' INSTALL 60'
2 O 55' INSTALL 52'
1 R 40'
4 R 44'
5 P 71' (68')
6 B 68'
7 Y 61' (60')
8 O 59' (56')
9 R 57' (56')
10 P 56' (48')
11 B 54' (45')
3 B 14'
2 Y 32'
1 O 30'
21,435.60 Sq Ft
0.492 Ac.
20,58
0.4