BLDR-2023-15781

ICHD - ENVIRONMENTAL HEALTH DIVISION

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

PERMIT # OSWP-2022-12104

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

PIN # 4736-21-6370

APPLICANT / OWNER: HELMSMAN HOMES, LLC | APPLICANT ADDRESS: PO Box 3965, MOORESVILLE, NC 28117

SITE ADDRESS: 114 RED CEDAR LN, STATESVILLE, NC 28625 | PHONE: (980) 500-1251 | ALT. PHONE: (980) 500-1251

SITE DIRECTIONS: Hwy 115 to Sullivan Farm | SAP CONTROLLED: YES ☐ NO ☒

SUBDIVISION: Sullivan Fields | SECTION: - | LOT #: 3 | LOT AREA: .501 | DESIGN FLOW: 360 | L.T.A.R.: .25

Septic Tank: (gal) 1000	STB: 760	Date: 3-20-2023	☒ New System ☐ Repair ☐ Expansion	System Type: III	☒ Residence	No. Bedrooms: 3	Water Supply: Other Public Water
Pump Tank: (gal) -	PT: -	Date: -	System Description: Gravity - 50% Reduction PPBPS		☐ Business	No. Persons: 6	
Pump Make: -	Model: -	Serial #: -	Repair System Description: 50% PPbPS - Reduction		☐ Other	No. Employees:	
# Nitrification Fields: 1	# Lines: 4	Linear Ft.: 240	Maintenance Agreement Required: ☐ YES ☒ NO		☒ Slab	☐ Crawl Space	
Trench Width: 24in	Trench Bottom Depth (Low side): 34 inches.		Gravel Depth: -	☒ GRAVITY ☐ PRESSURE	☐ Basement w/ Plumbing	☐ Basement w/o Plumbing	

Comments / Conditions: Lot Recorded Bk 78 PG 143-144

INITIAL SITE SKETCH

This permit is issued pursuant to G.S. 130A-335 (a2) (a3) & (a4) using the signed & Sealed LSS/LG Evaluation attached herefrom LEY Soil & Onsite Wastewater consulting PLLC

LSS# 1073

AS BUILT SKETCH

INSTALLED AS SHOWN

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: Benjamin A. Bailey Date: 1-17-2023

AUTHORIZATION TO CONSTRUCT by: Benjamin A. Bailey Date: 1-17-2023

Installed By: ROWAN SEPTIC

OPERATION PERMIT by: Benjamin C. White Date: 5-4-2023

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: 1-10-2022 (Date) by BB (Initials)

Permit Number: OSWP 2022-12104

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: Benjamin A Bryan Date of Issuance: 1-17-2023

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: 1-17-2028

See attached site sketch

County: Iredell

This Section for Local Health Department Use Only

Initial submittal received: 1-10-2022 by BB.
Date *Initials*

Permit Number: OSWP-2022-12104.

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: Benjamin A. Bates Date of Issuance: 1-17-2022

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: 1-17-2028

See attached site sketch

LEY
SOIL & Onsite Wastewater CONSULTING PLLC

Date: 9-29-2022

Project Name: Sullivan Fields Subdivision
Sulivan Farm Rd

Session Law 2022-11 (S372), AUTHORIZATION FORM

LEY Soil & Onsite Wastewater Consulting has been contracted to evaluate soil, design, and submit an Onsite Wastewater system proposal to the Iredell County Environmental Health Department on behalf of

Helmsman Homes 236 Raceway Dr Mooresville 28117
Lot 3

The Licensed Soil Scientist (LSS) Evaluation attached to this application is to be used to produce, design, and include construction features for permitting in accordance with SL 2022-11, S372

"The LSS evaluation is being submitted pursuant to and meets the requirements 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).

Tim Carr
Owner Signature

Gene Young--(336)-909-9060 geneleysoils@icloud.com
Gary Easter--(336)-909-9058
Jeff Link--(336)-909-8624
NC Licensed Soil Scientist, AOWE, NC Environmental Health Specialist

County: Iredell

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

PIN/Lot Identifier:

Issued To: Helmsman Homes 236 Raceway Dr, Mooresville 27118

Property Location: Sullivan Farm Rd Red Cedar Lane

Subdivision: Sullivan Fields Lot #: 3 Block: Section:

LSS Report Provided: Yes ☑ No ☐

If yes, name and license number of LSS: Gary L Easter LSS 1073

New ☑ Repair ☐ Expansion ☐ System Relocation ☐

Proposed Structure: single family residence

Proposed Wastewater System Type: 50% PPbPS system (Initial) 50% PPbPS system (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): .25 Proposed LTAR (Repair): .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:

see installer information sheet

Licensed Soil Scientist Print Name: Gary L Easter LSS 1073

Licensed Soil Scientist Signature: 1073 Date: 9-29-2022

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: Lot 3

Issued To: Helmsman Homes 236 Raceway Dr Mooresville 28117

Property Location: Sullivan Farm Rd Red Cedar Ln

AOWE/PE Plans/Evaluations Provided: Yes ☑ No ☐ If yes, name and license number of AOWE/PE: Gary L Easter 10014E

Facility Type: single family residence

☑ New ☐ Expansion ☐ Repair ☐ System Relocation

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

Type of Wastewater System** 50% reduction PPBPS (Initial) 50% Reduction PPBPS (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: 240 feet Trench/Bed Spacing: 8 feet on center

Drainfield square footage: 1440 Trench/Bed Width: 24 inches LTAR: .25 gpd/ft²

Soil Cover: 12 inches Slope Adjusted Maximum Trench/Bed Depth: 34 inches

Aggregate Depth: ____ inches above pipe ____ inches below pipe 6 inches total SAND

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

Pump Requirements: ____ ft. TDH vs. ____ GPM Grease Trap Size (if applicable): ____ 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: Tim Carr

Owner/Legal Representative Signature: Tim Carr Date: 12-16-2022

Pre-Construction Conference Required: Yes ☑ No ☐

Conditions: see information sheet for installer

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.

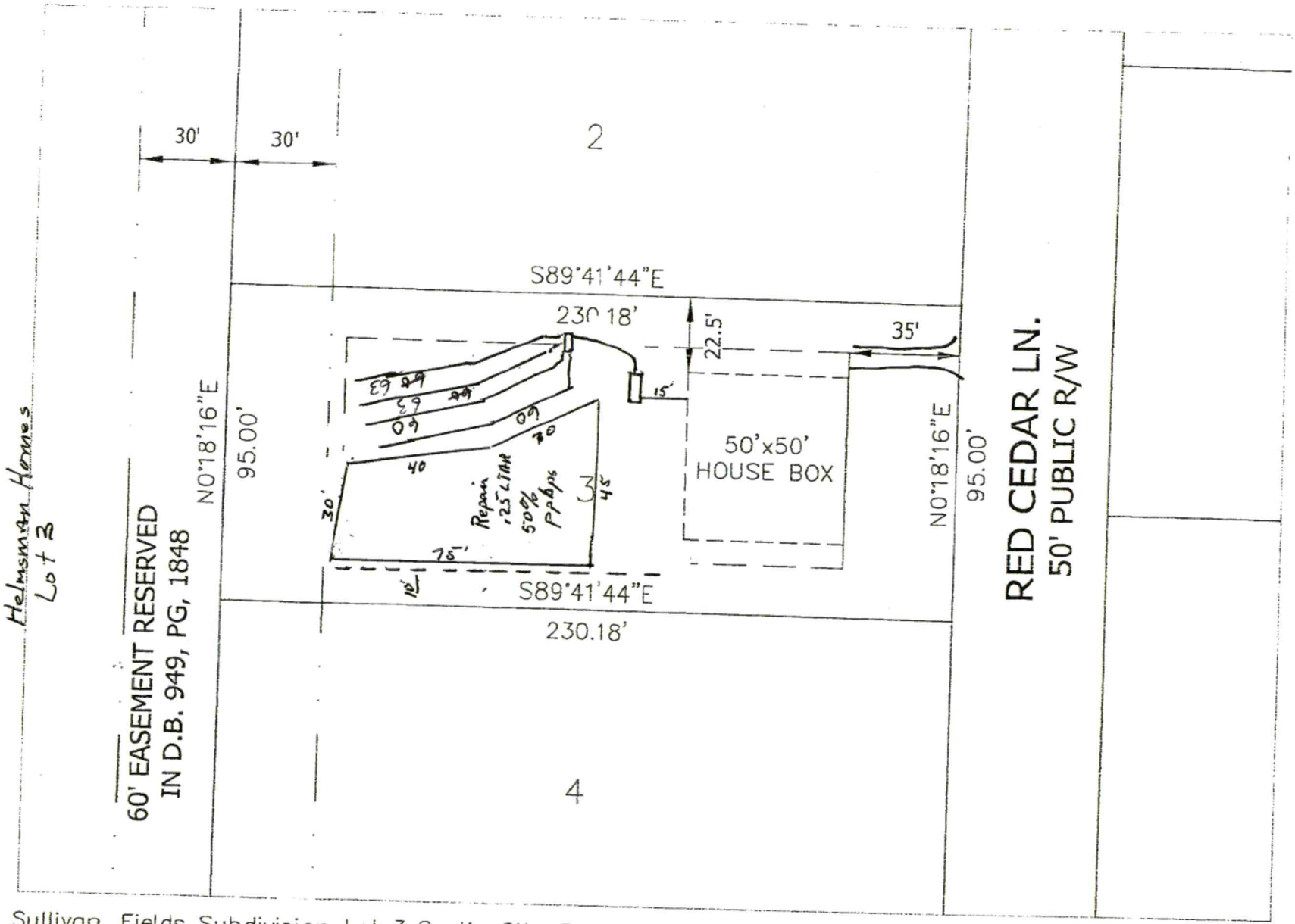
AOWE/PE Print Name: Gary L Easter

AOWE/PE Signature: 10014E Date: 9-29-2022

This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a2a).

See attached site sketch

NC ONSITE WASTEWATER EVALUATOR Certification Number 10014E



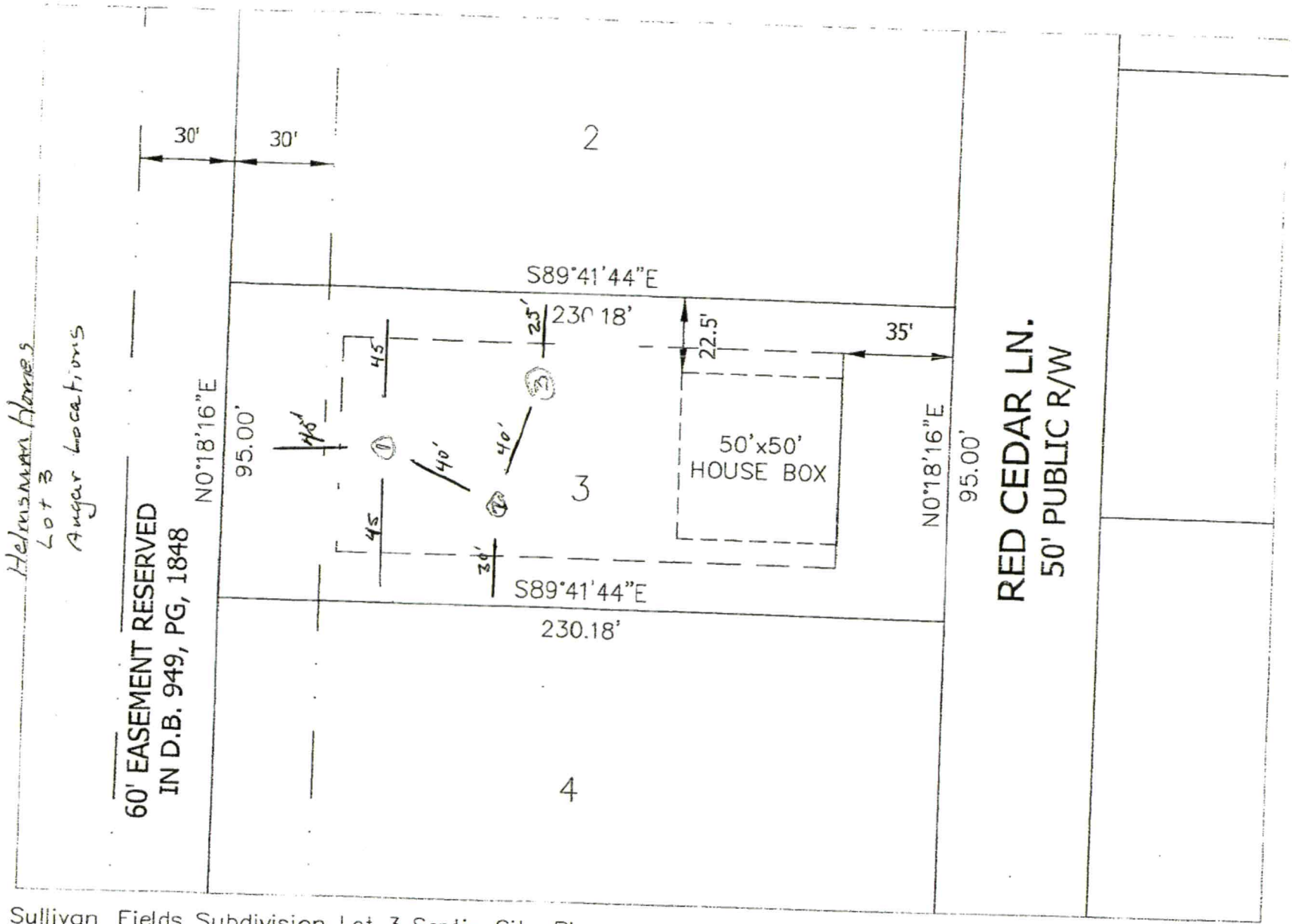
Sullivan Fields Subdivision Lot 3 Septic Site Plan

Base site plan from Sullivan Fields Subdivision Plans provided by Jordan Grant & Associates.

GRAPHIC SCALE

0 20 40 80

1 inch = 40 feet



Sullivan Fields Subdivision Lot 3 Septic Site Plan

GRAPHIC SCALE

0 20 40 80

1 inch = 40 feet

Base site plan from Sullivan Fields Subdivision Plans provided by Jordan Grant & Associates.

Sheet 1 of 1
PROPERTY ID #:
COUNTY: Iredell

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

OWNER: Helmsman Homes APPLICATION DATE 9-29-2022

ADDRESS: 236 Raceway Drive Mooresville 28117 DATE EVALUATED: 9-29-2022

PROPOSED FACILITY: single family PROPOSED DESIGN FLOW (.1949): 360 PROPERTY SIZE: .50 Ac

LOCATION OF SITE: Sullivan Farm Rd Red Cedar Ln PROPERTY RECORDED:

WATER SUPPLY: . Private . Public . Well . Spring . Other

EVALUATION METHOD: Auger Boring . Pit . TYPE OF WASTEWATER: Sewage . Industrial Process . Mixed

Landscape Position (1940)	L	L	L							
Slpoe%	4	4	4							
H 1 Depth (1943)	0-12	0-8	0-11							
H1 texture 1941	SL	SL	SL							
H1 Structure 1941	Gr	Gr	Gr							
H1 Consistance 1941	Fr SP	Fr SP	Fr SP							
H1 Mineralogy 1941	SExP	SExP	SExP							
H 2 Depth (1943)	12-38	8-48	11-48							
H2 texture 1941	C	C	C							
H2 Structure 1941	Bk	Bk	Bk							
H2 Consistance 1941	Fi P	Fi P	Fi P							
H2 Mineralogy 1941	SExP	SExP	SExP							
H 3 Depth (1943)	38-48									
H3 texture 1941	BC (C)									
H3 Structure 1941	Bk/m									
H3 Consistance 1941	Fi P									
H3 Mineralogy 1941	SE									
H 4 Depth (1943)										
H4 texture 1941										
H4 Structure 1941										
H4 Consistance 1941										
H4 Mineralogy 1941										
LTAR	.25	.25	.25							

LICENSED SOIL SCIENTIST
GARY L. EASTER
1073
STATE OF NORTH CAROLINA

Description	Initial System	Repair	Other Factors 1946
System Type	50% ppbps	50% ppbps	Site Classification PS
LTAR	.25	.25	2 inch slope correction

Evaluated by Gary Easter Jeff Link 1073

Installer Information

The following details must be considered along with all other considerations:

Preconstruction Conference required with the installer, contractor, and AOWE before installation

•Installation inspections by the AOWE (designer) must be scheduled 5 weekdays in advance

• Concrete Septic Tank shall be used an approved by NC DHHS, (Shoaf or HPPP 1000-gallon STB 760 septic tank and Shoaf or HPPP PT-363 1 piece pump tank recommended for repair)

•All tanks shall be properly back filled and compacted to prevent slump in the future

•The installer is responsible for final grades and returning that grade to original, with the exception of added structural features

•The supply trench shall be compacted to eliminate any cavities left during initial fill placement continuous fall of 1/8 inches per foot required or sewage effluent pump will be required

•Installation of the system shall be completed during dry conditions in order to protect the soil structure

•All fittings shall be pressure rated fitting

•All joints shall be cleaned with PVC pipe cleaner and a heavy bodied glue applied to weld all joints

•Trenches shall be carefully excavated so the bottom has no more than ¼" fall in 10 feet, with no high or low areas within. **Do not over excavate trenches!** Any fine grading should be completed by hand with a rake and shovel, leaving no loose material.

•All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the rise.

•Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral to prevent unwanted lateral water movement.

•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 pin flag locations should be checked by the installer prior to beginning trenches to ensure accuracy

•If septic tank risers are used, they should be a minimum of 6" above finished grade or within 6" of final grade if buried

See Design Specification Sheet for Onsite Wastewater System information

•If grading for slab foundation is utilized, do not grade/create greater than 2 feet of elevation difference within 15 feet of any component of the septic or repair. If back filling, do not backfill over any initial or repair septic line

Onsite Wastewater Initial System is specified as a PPBPS with a D-Box. Replacement System is a PPBPS.

•All Onsite Wastewater System components shall be 25' upslope, 15' side slope, and 10' downslope from any foundation drain

If the dwelling plumbing stub out is installed to deep a sewage effluent pump will be required

Divert all surface water from system area, and seed and landscape