

# Harnett County Environmental Health

File/Permit Number: SFD2503-0185

## IMPROVEMENT PERMIT

County: Harnett

PIN/Lot Identifier: 0633-04-3186.000 Lot 50

Owner: HHHUNT LOT ACQUISITIONS LLC

Applicant: HHHUNT LOT ACQUISITIONS LLC

Property Location: 581 MAGNOLIA ACRES LN FUQUAY-VARINA, NC 27526

Subdivision (if applicable) \_\_\_\_\_ Lot #: \_\_\_\_\_ Block: \_\_\_\_\_ Section: \_\_\_\_\_

New ☒

Expansion ☐

System Relocation ☐

Change of Use ☐

Facility Type: SFD 47.5' x 39.5'

Number of bedrooms: 4 Number of Occupants: 8 Other: \_\_\_\_\_

Design Wastewater Strength: ☒ Domestic

☐ High Strength

☐ Industrial Process Wastewater

Proposed Design Daily Flow: 480 GPD

Proposed LTAR (Initial): .3

Proposed LTAR (Repair): .3

Proposed Wastewater System Type\*: 25% Reduction System (Initial) Pump Required: ☒ Yes ☐ No ☐ May be required

Proposed Wastewater System Type\*: 25% Reduction System (Repair) Pump Required: ☐ Yes ☐ No ☐ May be required

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

Effluent Standard: ☒ DSE ☐ HSE ☐ NSF/ANSI 40 ☐ TS-I ☐ TS-II ☐ RCW

Saprolite System (Initial): ☐ Yes ☒ No

Saprolite System (Repair): ☐ Yes ☒ No

Fill System (Initial): ☐ Yes ☒ 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 ☒ 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)\*: 42" Usable Depth to LC (Repair)\*: 42" *\* Limiting Condition*

Max. Trench Depth (Initial)\*: 18"-28" Max. Trench Depth (Repair)\*: 18"-28" *\* Measured on the downhill side of the trench*

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

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

Drainfield location meets requirements of Rule .0508: Yes ☒ No ☐ Drainfield location meets requirements of Rule .0601: 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:

No Cutting or Grading of Soil in Septic or Septic Repair Area.

Authorized Agent's Printed Name: Ren Levocz

Expiration Date: 4-16-30

Authorized Agent's Signature:  REHS

Date: 4-16-25

**\*See attached site sketch\***

The issuance of this permit 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 permit is subject to revocation if the site plan, plat, or the intended use changes. 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 15A NCAC 18E and to the conditions of this permit.

# Harnett County Environmental Health

File/Permit Number: SFD2503-0185

## CONSTRUCTION AUTHORIZATION

County: Harnett PIN/Lot Identifier: 0633-04-3186.000 Lot 50  
Owner: HHHUNT LOT ACQUISITIONS LLC Applicant: HHHUNT LOT ACQUISITIONS LLC  
Property Location: 581 MAGNOLIA ACRES LN FUQUAY-VARINA, NC 27526  
Facility Type: SFD 47.5' x 39.5'

Number of bedrooms: 4 Number of Occupants: 8 Other: \_\_\_\_\_  
☒ New ☐ Expansion ☐ Repair ☐ System Relocation ☐ Change of Use  
Basement? ☐ Yes ☒ No Basement Fixtures? ☐ Yes ☒ No  
Crawl Space? ☒ Yes ☐ No Slab Foundation? ☐ Yes ☒ No  
Type of Wastewater System\* 25% Reduction System (Initial) 25% Reduction System (Repair)

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

Design Daily Flow: 480 GPD Wastewater Strength: ☒ Domestic ☐ High Strength ☐ Industrial Process Wastewater

Rule .0403(e) Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies (S.L. 2013-413 and 2014-120)? ☐ Yes ☐ No  
(if yes, please provide engineering documentation)

Effluent Standard: ☒ DSE ☐ HSE ☐ NSF/ANSI 40 ☐ TS-I ☐ TS-II ☐ RCW

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

### Installation Requirements/Conditions

Septic Tank Size: 1,000 gallons Total Trench/Bed Length: 400' feet Trench/Bed Spacing: 9' feet on center  
Trench/Bed Width: 36" inches LTAR: .3 gpd/ft<sup>2</sup> Usable Depth to LC (Initial)\*: 42" <sup>\*Limiting condition</sup>  
Soil Cover: 6" inches Slope Corrected Maximum Trench/Bed Depth†: 18"-28" inches <sup>\* Measured on the downhill side of the trench</sup>

Pump Tank Size (if applicable): 1,000 gallons Requires more than one 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 [Rule .0204(g)]: ☐ Yes ☐ No

Easement, Right-of-Way, or Encroachment Agreement Required [Rule .0204(d)]: ☐ Yes ☐ No

Declaration of Restrictive Covenants: ☐ Yes ☐ No Pre-Construction Conference Required: Yes ☐ No ☐

Management Entity Required: ☐ Yes ☐ No Minimum O&M Requirements: \_\_\_\_\_

Conditions: No Cutting or Grading of Soil in Septic or Septic Repair Area.

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.

Authorized Agent's Printed Name: Ren Levocz

Expiration Date: 4-16-30

Authorized Agent's Signature: [Signature]

Date: 4-16-25

**\*See attached site sketch\***

## Harnett County Environmental Health

### SITE SKETCH

PIN 0633-04-3186.000

Permit Number SFD2503-0185

HHHUNT LOT ACQUISITIONS LLC

Applicant's Name

*[Signature]* NEAS

Authorized State Agent

Magnolia Acres Lot 50

Subdivision/Section/Lot Number

4-16-25

Date

System components represent approximate contours only. The contractor must flag the system prior to beginning the installation to ensure that the proper grade is maintained.

Scale = \_\_\_\_\_

\* Follow Consultants Design



## PRESSURE MANIFOLD DESIGN

Name: HHHunt Homes P.I.N. #: 0633-04-3186 D #: N/A

Address: 581 Magnolia Acres Lane Subdiv: Magnolia Acres Lot#: 50

# of BDR: 4 Daily Flow: 480 gal/day L.T.A.R.: 0.300 gal/day/sq.ft

Septic Tank: 1000 gals (min.) Pump Tank: 1000 gals (min.) Sq. Foot: 1200 Stone Depth: N/A  
(EZ Flow)

Number of Taps: 4 Length of Trenches: Varies ft(See Tap Chart for Details)

Depth of Trenches: see Harnett County permit Manifold Length: 42 in

Manifold Diameter: 4 in sch 80pvc (minimum) Tap Configuration: 6 in spacing 1 side(s) of manifold

Supply Line: length: 25 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 1.43 ft(supply line length + 70' for fittings in pump tank)

Design Head: 2.0 ft Elevation Head: 9.83 ft

Vent Hole Size: 3/16 in Orifice Coefficient of Discharge: 0.60

Orifice Coefficient of Contraction: 0.62 Orifice Coefficient of Velocity: 0.97

Maximum Head Supplied by Selected Pump(s) at Total Design Flowrate: 22 ft

Orifice / Vent Hole Flowrate: 1.94 gpm Head Loss at Orifice / Vent Hole: 1.40 ft

Total Head: 14.66 ft Pump to Deliver: 27.12 gals/min at 14.66 ft head

Dosing Volume: 171.60 gals.

Drawdown: 171.60 gals divided by 18 gals/in = 9.53 inches

SJE Rhombus Installer Friendly Series simplex control panel, or equivalent, required  
A septic tank filter, or equal is required.

Possible pumps: Hydromatic: Goulds: Myers:  
Zoeller: 137 Other:

## TAP CHART

Bench Mark	0.00	is = 100.00	set at				Design Head:	2.0	
Pump tank elev.		7	93.00	Pump elev.	88.00		Manifold elev.	97.83	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
5	Red	3.17	96.83	110	1/2in SCH 40	7.11	135.54	330	0.4107
6	Purple	4.36	95.64	110	1/2in SCH 40	7.11	135.54	330	0.4107
7	Orange	5.36	94.64	90	1/2in SCH 80	5.48	104.46	270	0.3869
8	Yellow	6.25	93.75	90	1/2in SCH 80	5.48	104.46	270	0.3869
		total	feet =	400	gal/min =	25.2	LTAR =		0.3000
% of Pipe Vol.	66			Des. Flow	480.00			(ltar + 5%)	0.3150
Dose Volume	171.60			Pump Run=	19.06			(ltar W/ Innov.)	0.4000
Dose Pump Time	6.81			Tank Gal/IN	18			(ltar + 5%)	0.4200
Drawdown in Inches	9.53			Elev. Head	9.83				
Supply Line Length	25								
Comments:									

# Repair System

## PRESSURE MANIFOLD DESIGN

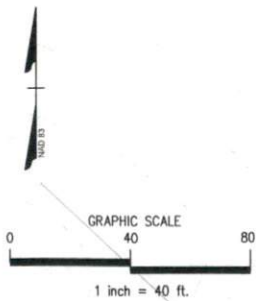
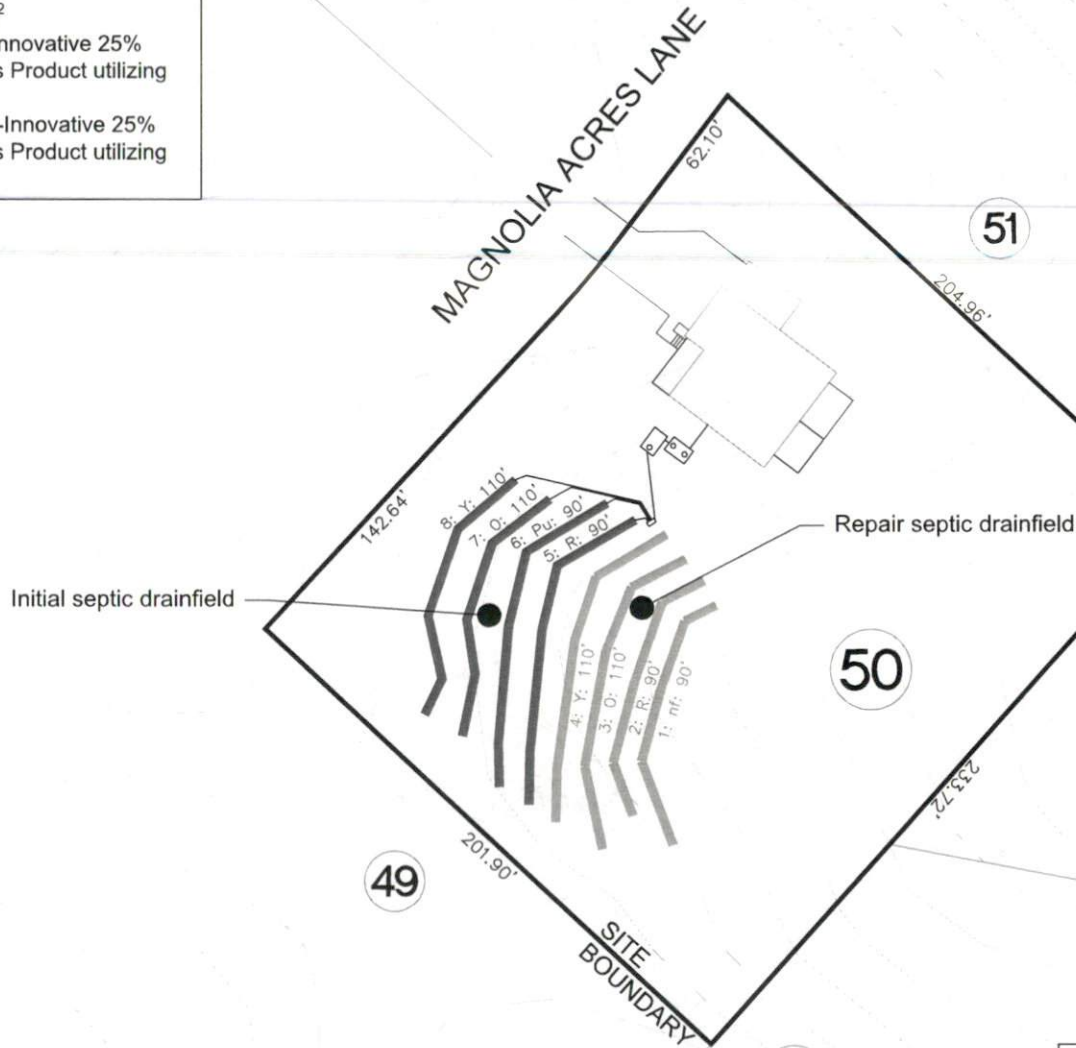
Name: HHHunt Homes P.I.N. #: 0633-04-3186 D #: N/A  
Address: 581 Magnolia Acres Lane Subdiv: Magnolia Acres Lot#: 50  
# of BDR: 4 Daily Flow: 480 gal/day L.T.A.R.: 0.300 gal/day/sq.ft  
Septic Tank: 1000 gals (min.) Pump Tank: 1000 gals (min.) Sq. Foot: 1200 Stone Depth: N/A  
(EZ Flow)  
Number of Taps: 4 Length of Trenches: Varies ft(See Tap Chart for Details)  
Depth of Trenches: see Harnett County permit Manifold Length: 42 in  
Manifold Diameter: 4 in sch 80pvc (minimum) Tap Configuration: 6 in spacing 1 side(s) of manifold  
Supply Line: length: 60 ft Diameter: 2 in sch 40pvc  
Friction Loss + Fitting Loss: 1.96 ft(supply line length + 70' for fittings in pump tank)  
Design Head: 2.0 ft Elevation Head: 11.15 ft  
Vent Hole Size: 3/16 in Orifice Coefficient of Discharge: 0.60  
Orifice Coefficient of Contraction: 0.62 Orifice Coefficient of Velocity: 0.97  
Maximum Head Supplied by Selected Pump(s) at Total Design Flowrate: 22 ft  
Orifice / Vent Hole Flowrate: 1.94 gpm Head Loss at Orifice / Vent Hole: 1.40 ft  
Total Head: 16.51 ft Pump to Deliver: 27.12 gals/min at 16.51 ft head  
Dosing Volume: 171.60 gals.  
Drawdown: 171.60 gals divided by 18 gals/in = 9.53 inches

SJE Rhombus Installer Friendly Series simplex control panel, or equivalent, required  
A septic tank filter, or equal is required.  
Possible pumps: Hydromatic: Goulds: Myers:  
Zoeller: 137 Other:


## TAP CHART

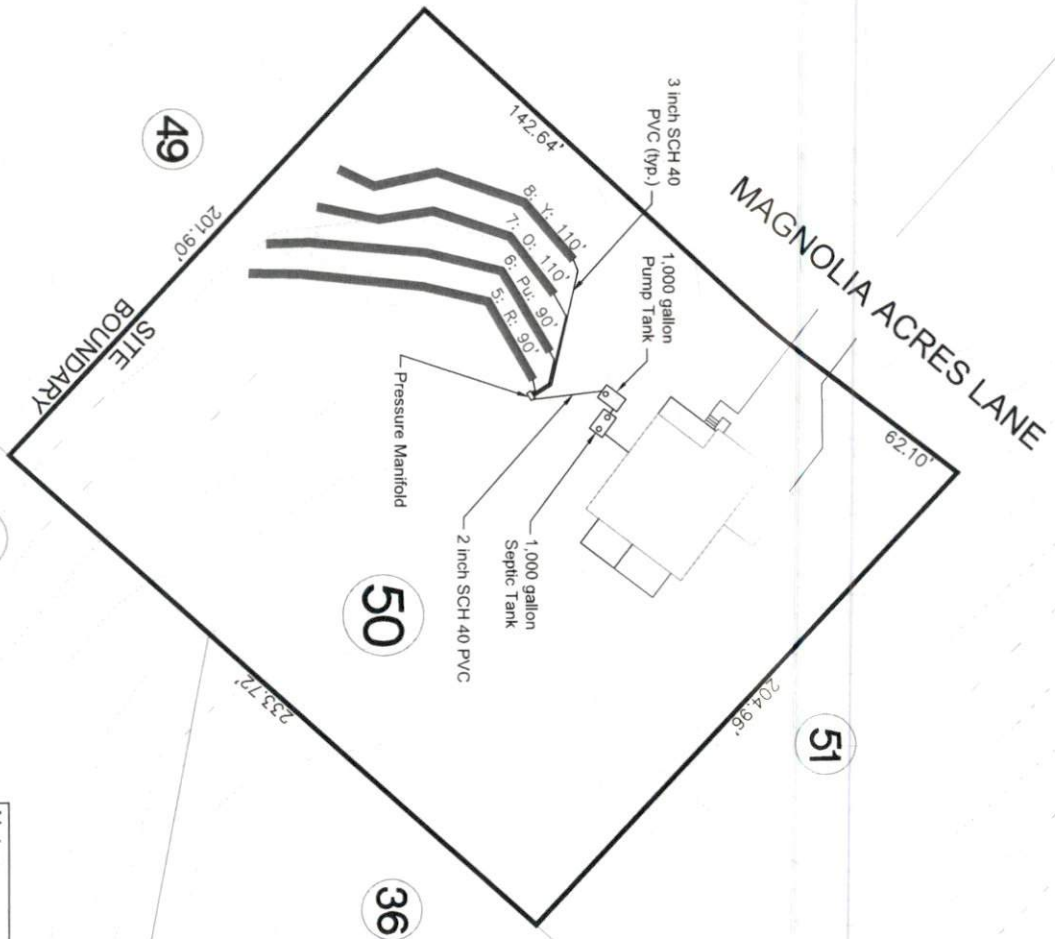
Bench Mark	<u>0.00</u>	is = 100.00	set at				Design Head:	<u>2.0</u>	
Pump tank elev.	<u>7</u>		<u>93.00</u>	Pump elev.	<u>88.00</u>		Manifold elev.	<u>99.15</u>	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	nf	1.85	98.15	90	1/2in SCH 80	5.48	104.46	270	0.3869
2	Red	2.85	97.15	90	1/2in SCH 80	5.48	104.46	270	0.3869
3	Orange	3.85	96.15	110	1/2in SCH 40	7.11	135.54	330	0.4107
4	Yellow	5.27	94.73	110	1/2in SCH 40	7.11	135.54	330	0.4107
		total	feet =	<u>400</u>	gal/min =	<u>25.2</u>		LTAR =	<u>0.3000</u>
% of Pipe Vol.	<u>66</u>			Des. Flow	<u>480.00</u>			(ltar + 5%)	<u>0.3150</u>
Dose Volume	<u>171.60</u>			Pump Run=	<u>19.06</u>			(ltar W/ Innov.)	<u>0.4000</u>
Dose Pump Time	<u>6.81</u>			Tank Gal/IN	<u>18</u>			(ltar + 5%)	<u>0.4200</u>
Drawdown in Inches	<u>9.53</u>			Elev. Head	<u>11.15</u>				
Supply Line Length	<u>60</u>								
Comments:									

4-Bedroom  
 LTAR: 0.3 gpd/ft<sup>2</sup>  
 Initial: Pump-to-Innovative 25%  
 Reduction Status Product utilizing  
 lines 5-8 (400')  
 Repair: Pump-to-Innovative 25%  
 Reduction Status Product utilizing  
 lines 1-4 (400')



Notes:  
 -No soil cuts within 20 feet of septic trenches.  
 -No swales within 30 feet of septic trenches  
 unless approved, in writing, by Engineer.

 <b>MITCHELL ENVIRONMENTAL, PA</b> <i>C-2911</i> <b>1501 LAKESTONE VILLAGE LANE</b> <b>SUITE 205</b> <b>FUQUAY VARINA, NC 27526</b>	PREPARED FOR : Helmut Home 1501 Lakestone Village Lane Suite 205 Fuquay Varina, NC 27526	DATE : March 12, 2025	DESIGNER CONTACT: ADAM AYCOCK, E	DRAWN BY: ADAM AYCOCK, E	REVISION NO. Original Submittal	DATE March 12, 2025	<i>1 of 7</i>
					Revision 1		
					Revision 2		
					Revision 3		
					Master Set		Magnolia Acres Lot 50 Overall Septic



Notes:  
 -No soil cuts within 20 feet of septic trenches.  
 -No swales within 30 feet of septic trenches  
 unless approved, in writing, by Engineer.



**MITCHELL ENVIRONMENTAL, PA**  
 C-2911  
 1501 LAKESTONE VILLAGE LANE  
 SUITE 205  
 FUQUAY VARINA, NC 27526

PREPARED FOR : H&H Homes  
 1 Fenton Main Street  
 Suite 280  
 Cary, NC 27511  
 DATE : March 12, 2025  
 DESIGNER CONTACT:  
 ADAM AYCOCK, EI  
 DRAWN BY:  
 ADAM AYCOCK, EI

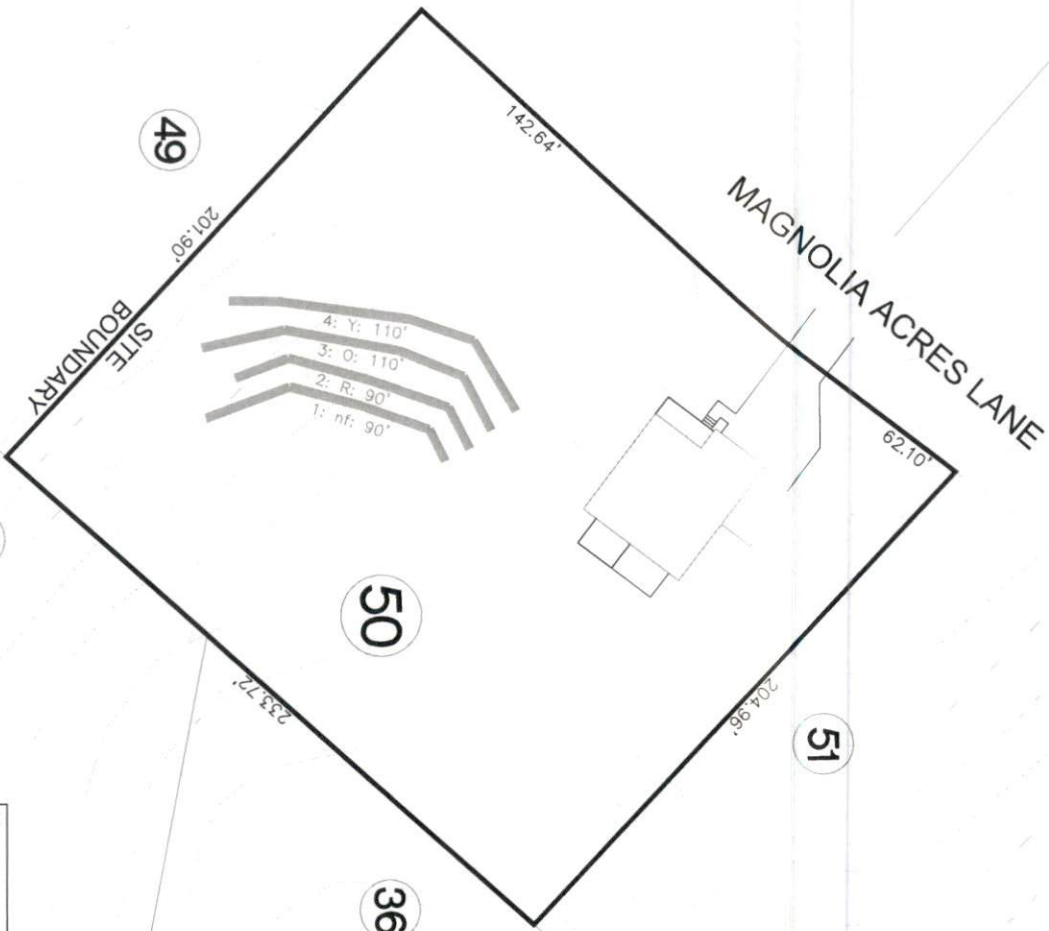
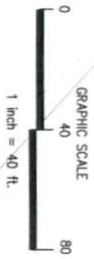
REVISION NO.	DATE
Original Submittal	March 12, 2025
Revision 1	-----
Revision 2	-----
Revision 3	-----
Master Set	-----

**SHEET NUMBER**

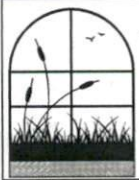
**2 of 7**

*Magnolia Acres*  
 Lot 50  
 Initial Nitrification Field





Notes:  
 -No soil cuts within 20 feet of septic trenches.  
 -No swales within 30 feet of septic trenches  
 unless approved, in writing, by Engineer.



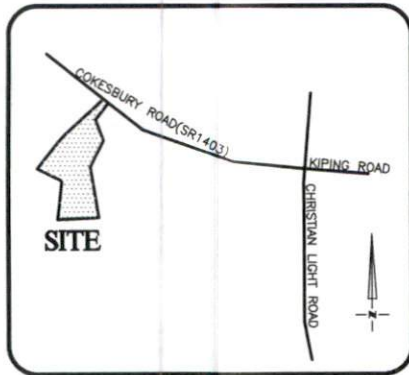
**MITCHELL ENVIRONMENTAL, PA**  
 C-2911  
 1501 LAKESTONE VILLAGE LANE  
 SUITE 205  
 FUQUAY VARINA, NC 27526

PREPARED FOR : 998 Hunt Homes  
 1 Fenton Main Street  
 Suite 280  
 Cary, NC 27511  
 DATE : March 12, 2025  
 DESIGNER CONTACT:  
 ADAM AYCOCK, EI  
 DRAWN BY:  
 ADAM AYCOCK, EI

REVISION NO.	DATE
Original Submittal	March 12, 2025
Revision 1	-----
Revision 2	-----
Revision 3	-----
Master Set	-----

**SHEET NUMBER**  
 3 of 7  
 Magnolia Acres  
 Lot 50  
 Repair Nitrification Field





VICINITY MAP  
Not To Scale

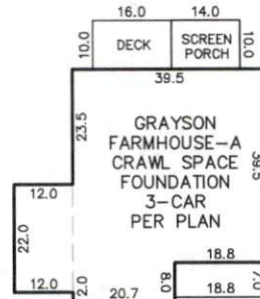
SETBACKS: (ZONE RA-30)

FRONT - 35'  
REAR - 25'  
SIDE - 10'  
CORNER SIDE - 20'



IMPERVIOUS SURFACE AREA	
DESCRIPTION	AREA
HOUSE & PORCH	2,122 S.F.
SC PORCH/MISC	149 S.F.
DRIVEWAY & WALKS	972 S.F.
TOTAL (PROPOSED)=	3,243 S.F.
*TOTAL (ALLOWED)=	3,850 S.F.

\*PB 2024 PG 27



INSET  
N.T.S.



CURVE	RADIUS	ARC LENGTH	CH LENGTH	CH BEARING
C1	300.00'	29.29'	29.28'	N39°27'32"E

THIS PROPERTY MAY BE SUBJECT TO ANY AND ALL APPLICABLE DEED RESTRICTIONS, EASEMENTS, RIGHT-OF-WAY, UTILITIES AND RESTRICTIVE COVENANTS WHICH MAY BE OF RECORD OR IMPLIED

THIS DRAWING DOES NOT  
REFLECT AS-BUILT INFORMATION

**PRELIMINARY PLAT**  
NOT FOR RECORDATION, CONVEYANCES, OR SALES



**RESIDENTIAL  
LAND SERVICES, PLLC.**

1917 Evans Road  
Cary, North Carolina 27513  
Phone (919) 378-9316  
Firm License # P-0873

### HOUSE LOCATION PLOT PLAN

FOR  
#581 MAGNOLIA ACRES LANE  
LOT 50, MAGNOLIA ACRES

Hector's Creek Township, Harnett County, North Carolina

PROPERTY OF: HHHUNT HOMES

MAP BOOK 2024 PAGE 27 DEED REFERENCE           

DRAWN: JTC    SURVEYED: N/A    CHECKED: DMR    DATE: MARCH 7, 2025