SUPERVISOR/ADMINISTRATIVE PROFESSIONAL CHECKLIST

NEW SEPTIC ☒ NEW WELL ☐ USE EXISTING ☐ MODIFIED PLOT PLAN ☐

New Septic Fees Paid

IP ($250.00) 3/1/21 LE Initial/Date

CA ($200.00) 3/23/21 LE Initial/Date

OP ($200.00) 3/23/21 LE Initial/Date

(CA and OP fees need to be paid before a building permit can be issued)

New Well Fees Paid: $550.00 _____ Initial/Date

Use Existing Fees Paid: $100.00 _____ Initial/Date

Alteration Fees Paid: $300 Total $200 _____ Initial/Date (If use existing was part of payment)

Modified Plot Plan Fees Paid: $100.00 _____ Initial/Date

Please generate CA / Approve As Noted

Floor plans need to be submitted and reviewed before CA can be issued ☒ Review ☒ 3/26/21 3 Bedrooms

This site is served by septic and well. Verify each is complete before final hold is released ☐

Septic file complete ☒ 2/2/22 Well complete ☐ _____

Send permit for signature ☐ Signature received ☑ _____

This septic system requires a certified operation contract before final hold is released ☐

Certified operator contract is on file ☐ _____

Septic file Complete

Groundwater & Wastewater Services: Septic Project File & D

Edit Response | Delete Response | Manage Permissions | Workflows | Alert Me

GWS File #:	10876B
WASPS App #:	11916
Primary ES assigned to project:	Heather
Secondary ES assigned to project:	
Project Type:	New System
Site Evaluation Information: .1939(a)(1) - Topography and Landscape Position Recorded?	Yes
Site Evaluation Information: .1940(a-g) - Slope % Recorded?	Yes
Site Evaluation Information: .1939(a)(2) - Texture Class Recorded?	Yes
Site Evaluation Information: .1939(a)(2) - Structure Type Recorded?	Yes
Site Evaluation Information: .1939 (a)(2) - Consistence Recorded?	Yes
Site Evaluation Information: .1939(a)(2) - Mineralogy Recorded?	Yes
Site Evaluation Information: .1939(a)(3) - Soil Wetness Condition Recorded?	Yes
Site Evaluation Information: .1939(a)(4) - Soil Depth to Rock or Parent Material Recorded when Encountered?	Yes
Site Evaluation Information: .1939(a)(5) - Depth to Restrictive Horizons Recorded when Encountered?	Yes
Site Evaluation Information: .1939(a)(6) - Sufficient Available Space Recorded?	Yes
Site Evaluation Information: .1937(m) - Are the Profile Locations Shown?	Yes
Site Evaluation Information: .1939(a) - Are the S/PS Profiles in system & in repair area?	Yes
Site Evaluation Information: .1939(d), .1955, .1956, .1957 - LTAR	Yes
Improvement Permit/Construction Authorization: .1937(g), 130A-336(a) - Proposed System Type stated - Initial	Yes
Improvement Permit/Construction Authorization: .1945(b) - Proposed System Type stated - Repair	Yes
Improvement Permit/Construction Authorization: 130A-336(a)(3) - System location identifiable by setbacks - Initial	Yes
Improvement Permit/Construction Authorization: .1937(g), .1945(b) - System components shown - Initial	Yes
Information Permit/Construction Authorization: .1945(b) - Repair area shown	Yes
Improvement Permit/Construction Authorization: .1937(f)(g) - Does System design match facility, flow & WW characteristics?	Yes
Improvement Permit/Construction Authorization: .1937(f)(g) - Is System design consistent with soil/site conditions?	Yes
Improvement Permit/Construction Authorization: .1937(f)(g) - Is the System located in the approved area?	Yes
Improvement Permit/Construction Authorization: 130A-336(a) - Number of Bedrooms, employees, seats, etc. indicated?	Yes
Improvement Permit/Construction Authorization: .1937 (g) - Trench depth correct?	Yes
Improvement Permit/Construction Authorization: .1937(g) - Trench width correct?	Yes
Improvement Permit/Construction Authorization: .19379(g) - Trench length correct?	Yes
Improvement Permit/Construction Authorization: 130A-336(a)(1) - Proposed/existing well shown?	N/A

Improvement Permit/Construction Authorization: 130A-336(a)(1) - Property line lengths shown?	Yes
Improvement Permit/Construction Authorization: 130A-336(a) - Facility/appurtenance setbacks shown from fixed points?	Yes
Corrections/modifications needed?	No
Comments:	Session Law Permit by Larry Thompson
IA issued date:	
OP Issued date:	
Review performed by:	Michelone
Date performed:	3/24/2021

Created at 3/24/2021 10:34 AM by Michelone, Jeremy
Last modified at 3/24/2021 10:34 AM by Michelone, Jeremy

Close

X57941

MECKLENBURG COUNTY
HEALTH DEPARTMENT

10876B
#11916

1 FEB '21 AM 9:25

APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

1. **SEPTIC / TYPE APPLICATION:** ○ N/A ☑ NEW SYSTEM ○ ALTERATION ○ REPAIR ○ MODIFIED PLOT PLAN

2. **WELL / TYPE APPLICATION:** ○ N/A ○ NEW WELL ○ MAJOR REPAIR ○ ABANDONMENT

3. **JOB LOCATION INFORMATION:**

TAX PARCEL NUMBER: 015-131-62
STREET ADDRESS: 7540 McIlwaine Rd.
CITY: Huntersville
STATE: NC ZIP: 28078
SUBDIVISION NAME: —
LOT #: 2 LOT SIZE (acres): .46
TOWNSHIP:
○ MECKLENBURG ○ CORNELIUS ☑ HUNTERSVILLE
○ DAVIDSON ○ CHARLOTTE ○ PINEVILLE
○ MATTHEWS ○ MINT HILL

4. **BUILDING INFORMATION:**

BUILDING TYPE:
○ SINGLE MOBILE HOME ○ MODULAR HOME
○ DOUBLE WIDE ○ MULTIPLE FAMILY
☑ HOUSE ○ OTHER _____
HEATED SQUARE FOOTAGE: 2,282
NUMBER OF BEDROOMS: 3
NUMBER OF OCCUPANTS: Unknown
FOUNDATION TYPE:
○ CONCRETE SLAB ○ BASEMENT WITH PLUMBING
☑ CRAWL SPACE ○ BASEMENT WITH NO PLUMBING

5. **IF PLANNING TO EXPAND OR ALTER THE EXISTING SEPTIC SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION:** ☑ N/A

NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. **WATER SUPPLY:** ☑ MUNICIPAL ○ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER _____

7. **PROPOSED USE OF WELL:** ☑ N/A ○ IRRIGATION ○ POTABLE (DRINKING WATER) ○ OTHER _____

8. **PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE** *(1-MOST DESIRED 5-LEAST DESIRED):*

☐ N/A ☑ ANY TYPE ☐ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER _____

8A. **RANK:** ____ ____ ____ ____ ____

9. **DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.**

BURIED CABLES, LANDFILLS, STUMPHOLES	○ YES ☑ NO	GRADING/SOIL REMOVAL PERFORMED	○ YES ☑ NO
EXISTING WASTEWATER (SEPTIC) SYSTEMS	○ YES ☑ NO	JURISDICTIONAL WETLANDS	○ YES ☑ NO
WELLS, SPRINGS, OR WATER LINES	○ YES ☑ NO	APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	○ YES ☑ NO
EASEMENTS OR RIGHT-OF-WAYS	○ YES ☑ NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	○ YES ☑ NO
CHEMICAL/PETROLEUM STORAGE TANKS	○ YES ☑ NO	KNOWN UNDERGROUND CONTAMINATION	○ YES ☑ NO
WASTE STORAGE	○ YES ☑ NO	GROUNDWATER USE RESTRICTIONS/VARIANCES	○ YES ☑ NO

10. **WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED?** _____ ☑ UNKNOWN

11. **WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?** ~~As soon as~~ Already owned ☑ N/A

12. **PROPERTY OWNER:**

NAME: Jay-Cai Builders LLC
ADDRESS: 105 Yellow Birch Loop
CITY: Mooresville
STATE: NC ZIP: 28117
WORK PHONE: _____
MOBILE PHONE: 980-339-0068
FAX: _____
E-MAIL: DylanLimper@Yahoo.com

13. **OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:**

**Owner's Authorization form is required if legal representative is submitting application*

NAME: _____
ADDRESS: _____
CITY: _____
STATE: _____ ZIP: _____
WORK PHONE: _____
MOBILE PHONE: _____
FAX: _____
E-MAIL: _____

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208 OFFICE: (980) 314-1680, FAX: 704-336-6894

Revised on: 03/27/19

14. SEPTIC SYSTEM PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for either sixty (60) months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

_____ (Initial here for septic system applications)

15. WELL PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for a period of twelve (12) months from the date of issuance.

_____ (Initial here for well applications)

16. APPLICATION SIGNATURE SECTION:

ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. A proper signature is required in order to process your application. Please review the application carefully and sign in the space provided below. A PROPOSED PLOT PLAN is required to be submitted with each application.

_____ 1-29-2021

Property Owner's or Owner's Legal Representative Signature — Date

---

OFFICE USE ONLY

○ SURVEY PLAT TO SCALE SUBMITTED ○ SCALED SITE PLAN SUBMITTED ○ UN-SCALED SITE PLAN SUBMITTED

SEPTIC APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

WELL APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

APPLICATION PROCESSED BY: _____

GWS FILE NUMBER ASSIGNED: _____

APPLICATION ID NUMBER ASSIGNED: _____

COMMENTS:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208 OFFICE: (980) 314-1680, FAX: 704-336-6894

Revised on: 03/27/19

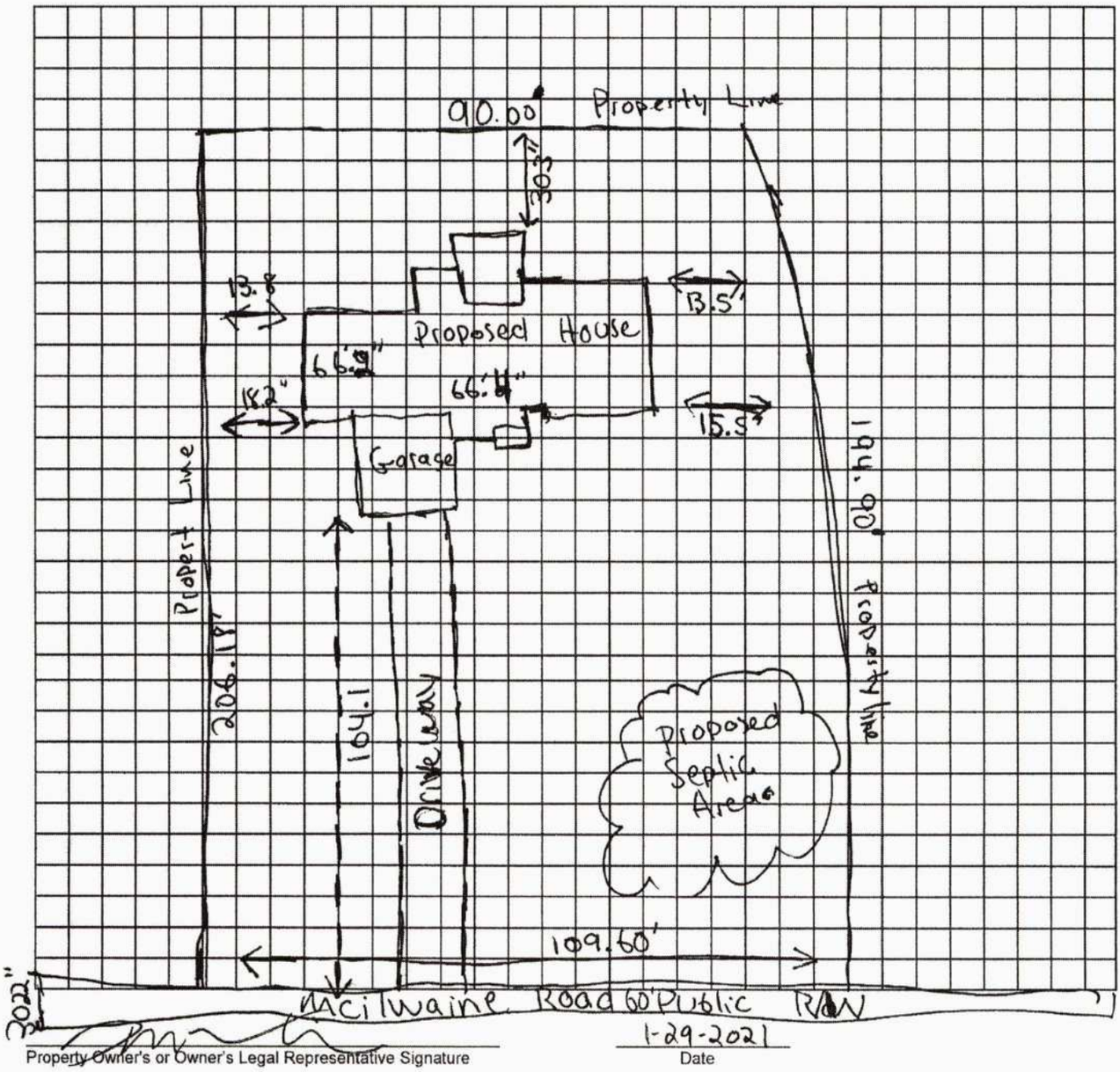
File #: _____

PROPOSED PLOT PLAN

A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), location of existing or proposed sewer lines and sewage disposal systems, surface water bodies, and any aboveground or underground storage tanks. Provide names for all roads that adjoin the property.

Street Address: 7540 McIlWaine Rd. Tax Parcel #: 015-131-62

Subdivision Name: — Lot #: 2

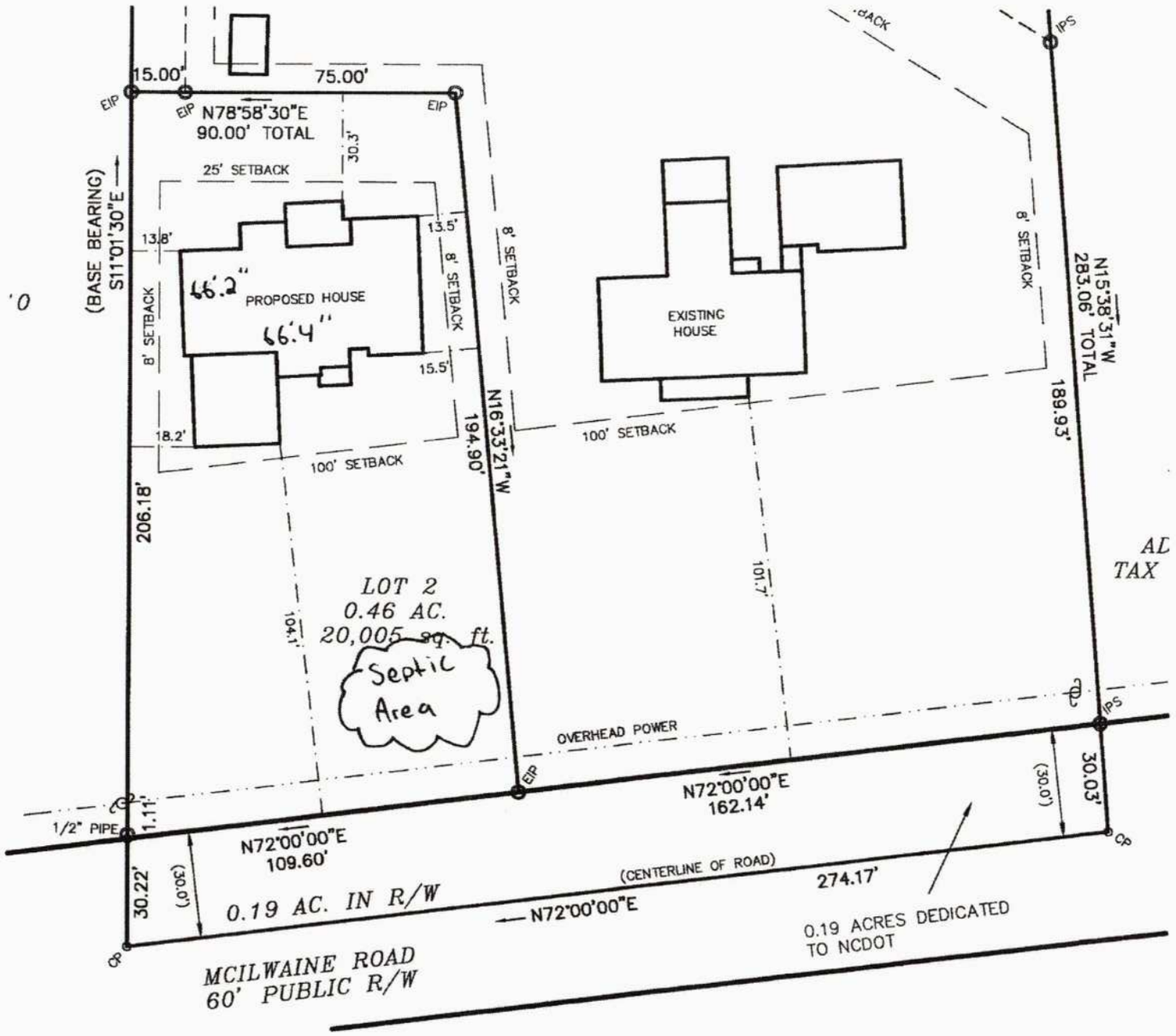


Property Owner's or Owner's Legal Representative Signature

1-29-2021
Date

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208, OFFICE: (980) 314-1680, FAX: 704-336-6894

Revised on: 03/27/19


15.00'
75.00'
EIP
EIP
N78°58'30"E
90.00' TOTAL
25' SETBACK
30.3'
(BASE BEARING)
S11°01'30"E
13.8'
13.5'
8' SETBACK
8' SETBACK
66.2"
PROPOSED HOUSE
66.4"
15.5'
18.2'
100' SETBACK
206.18'
N16°33'21"W
194.90'
8' SETBACK
EXISTING
HOUSE
8' SETBACK
N15°38'31"W
283.06' TOTAL
189.93'
100' SETBACK
LOT 2
0.46 AC.
20,005 sq. ft.
Septic
Area
104.1'
101.7'
AL
TAX
OVERHEAD POWER
IPS
IPS
EIP
1/2" PIPE
1.11'
N72°00'00"E
162.14'
(30.0')
30.03'
CP
N72°00'00"E
109.60'
30.22'
(30.0')
0.19 AC. IN R/W
(CENTERLINE OF ROAD)
N72°00'00"E
274.17'
CP
0.19 ACRES DEDICATED
TO NCDOT
MCILWAINE ROAD
60' PUBLIC R/W

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 02/01/21
Receipt #: 125947
Check / Auth #: MC 099028
Received By: ELLISLW

Amount: 250.00
Tendered: 250.00
Returned: 0.00

Account Information

Account #: 200000
Contractor: JAY-CAI BUILDERS LLC
Attn: DYLAN LIMPER
Address: 105 YELLOW BIRCH LOOP
Address:
City/State/Zip: MOORESVILLE, NC 28117

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 7540 MCILWAINE ROAD		1	250.00	250.00

Mecklenburg
Environmental Health
3205 Freedom Drive
Charlotte, NC, 28208
Phone: (980) 314-1651
02/01/21 11:11

Sale

Merchant ID: 153629
Sequence #: 003
Card Type : MASTERCARD
Auth. Code: 099028
Acct. No: xxxxxxxxxxxx5498

Amount : 250.00

APPROVED

OP

Signature

I agree to pay the above total amount according to the card issuer agreement (Merchant agreement if credit voucher)

We appreciate your payment!
Thank You Very Much!

Merchant Copy

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 2
Property ID: 015-131-62
Lot #: 2
File #: 10876B
AppID: 11916

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Property Owner: Jay-Cai Builders, LLC
Address: 105 Yellow Birch 100p, Mooresville, NC 28117
Proposed Facility: 3 Bedroom House
Design Flow (.1949): 360 GPD
Location of Site: 7540 McIlwaine Rd, Huntersville, NC 28078
Water Supply: [ ] Public [ ] Individual [ ] Well
Evaluation Method: [X] Auger Boring [ ] Pit
Type of Wastewater: [X] Sewage [ ] Industrial Process

Applicant: Owner
Date Evaluated: 2/3/2021
Property Size: 0.46 ac
Property Recorded: Unknown
[ ] Spring [X] Municipal
[ ] Cut
[ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Boring #1	LS 3%	0 - 10	sbk CL	SS SP FR SEXP	>49"	49	NA	NA		PS IV 0.3	36"
		10 - 44	sbk C	S P FI SEXP							
		44 -49	sbk SCL	SS SP FR SEXP							
Boring #2	LS 2%	0 - 6	sbk CL	SS SP FR SEXP	>48"	48	NA	NA	yellow brown mottles 24 - 42"	PS IV 0.275	36"
		6 - 30	sbk C	S P FI SEXP							
		30 - 48	sbk CL	SS SP FR SEXP							
Boring #3	LS 2%	0 - 6	gr/sbk CL	SS SP FR SEXP	10YR 7/1 at 26"	33	NA	NA		US	NA
		6 - 33	sbk C	S P FI SEXP							
Boring #4	LS 2%	0 - 8	gr/sbk CL	SS SP FR SEXP	>48"	48	NA	NA	yellow brown mottles 24 - 48"	PS IV 0.275	36"
		8 - 48	sbk C	S P FI SEXP							

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)		
Site LTAR (gpd/sq ft)	**0.275**	**0.275**

Other Factors (.1946):
Soil Evaluation By: Jacob Presley, REHS, LSS
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

COMMENTS:

Landscape Position
R-Ridge
SS-Shoulder Slope
LS-Linear Slope
FS-Foot Slope
NS-Nose Slope
HS-Head Slope
CC-Concave Slope
CV-Convex Slope
T-Terrace
FP-Flood Plain
D-Drainage Way

Group	Texture	.1955 LTAR
I	S-Sand LS-Loamy Sand	1.2 - 0.8
II	SL-Sandy Loam L-Loam	0.8 - 0.6
III	Si-Silt SiCL-Silty Clay Loam CL-Clay Loam SCL-Sandy Clay Loam SiL-Silt Loam	0.6 - 0.3
IV	SC-Sandy Clay SiC-Silty Clay C-Clay	0.4 - 0.1

Structure
sg-Single Grain
mass-Massive
cr-Crumb
gr-Granular
sbk-Subangular Blocky
abk-Angular Blocky
pl-Platy
pr-Prismatic
Sap-Saprolite

Structure Prefixes
w-weak
m-moderate
s-strong
f-fine
m-medium
c-coarse

Consistence
Moist
VFR-Very Friable
FR-Friable
FI-Firm
VFI-Very Firm
EFI-Extremely Firm

Consistence
Wet
SS-Slightly Sticky
S-Sticky
VS-Very Sticky
NP-Non-Plastic
SP-Slightly Plastic
P-Plastic
VP-Very Plastic

Mineralogy
SEXP-Slightly Expansive
EXP-Expansive

Classification
US-Unsuitable
PS-Provisionally Suitable
S-Suitable
NA-Not Applicable

Sketch of Soil Evaluation Locations



Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr., Suite 8000 Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30011916** GWS File #: **10876B** Tax Parcel #: **015-131-62**

- This IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be **NO** grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

I. This Improvement Permit Shall: Expire in Five (5) Years **Expiration Date (If Applicable):** 3/22/2026

Type of Installation: Residential - New System Lot Number: 2

Structure Type: HOUSE Size (ft^2): 2282 # Bedrooms: 3 Max. Occup.: 6

Building Foundation: Crawl Space Water Supply: Municipal

II. Initial System Type: PPBPS (gravity) **System Classification:** IIIe

Initial System Specifications:

Design Flow (gpd):	360	LTAR (gpd/ft^2):	.275	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	N/A
Trench Width (ft):	2	Trench Spacing (ft):	8	Absorption Area (ft^2):	436	Total Trench Length (ft):	218
Maximum Trench Depth (in):	36	Depth of Media (in):	22	Distribution Device:	Distribution Box		

III. Repair System Type: PPBPS (gravity) **System Classification:** IIIe

Repair System Specifications:

Design Flow (gpd):	360	LTAR (gpd/ft^2):	.275	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	N/A
Trench Width (ft):	2	Trench Spacing (ft):	8	Absorption Area (ft^2):	436	Total Trench Length (ft):	218
Maximum Trench Depth (in):	36	Depth of Media (in):	22	Distribution Device:	Distribution Box		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until a Pre-Construction meeting has been completed by the Department.
- The septic system installer shall be a licensed septic contractor with the North Carolina Wastewater Contractor Inspector Certification Board.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Heather Ray

Signature: Heather Ray

Date Issued: 3/22/2021

Owner/Legal Agent: Dylan Limper
Print Name

Signature: Dylan Limper

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr., Suite 8000 Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30011916** GWS File #: **10876B**

IV. Permit Conditions/Comments:

- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be located at least 100 ft. (50 ft. minimum) from all private wells.
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- The septic system shall be located at least 10 feet from any foundation drain.
- This permit is issued pursuant to Section 11.(c) of SL 2018-114 using the signed and sealed LSS Evaluation attached here.

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment and Disposal Systems* and is subject to the following provisions:

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- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Heather Ray

Signature: Heather Ray

Date Issued: 3/22/2021

Owner/Legal Agent: Dylan Limper
Print Name

Signature:

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr., Suite 8000 Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30011916** GWS File #: **10876B** Tax Parcel #: **015-131-62**

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Maximum Trench Depth (in):	36	Depth of Media (in):	22	Distribution Device:	Distribution Box		

III. Repair System Type: PPBPS (gravity) **System Classification:** IIIe

Repair System Specifications:

Design Flow (gpd):	360	LTAR (gpd/ft^2):	.275	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	N/A
Trench Width (ft):	2	Trench Spacing (ft):	8	Absorption Area (ft^2):	436	Total Trench Length (ft):	218
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IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

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- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Heather Ray

Signature: Heather Ray

Date Issued: 3/22/2021

Owner/Legal Agent: _____
Print Name

Signature: _____

Mecklenburg County Groundwater & Wastewater Services
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Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
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IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30011916** GWS File #: **10876B**

IV. Permit Conditions/Comments:

- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be located at least 100 ft. (50 ft. minimum) from all private wells.
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- The septic system shall be located at least 10 feet from any foundation drain.
- This permit is issued pursuant to Section 11.(c) of SL 2018-114 using the signed and sealed LSS Evaluation attached here.

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until a Pre-Construction meeting has been completed by the Department.
- The septic system installer shall be a licensed septic contractor with the North Carolina Wastewater Contractor Inspector Certification Board.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Heather Ray

Signature: Heather Ray

Date Issued: 3/22/2021

Owner/Legal Agent: _____
Print Name

Signature: _____

AGENT AUTHORIZATION FORM

PROPERTY LEGAL DESCRIPTION:

LOT NO. _____ PHASE _____ PARCEL ID: 01513162

STREET ADDRESS: 7540 McIlwaine Road
Charlotte, NC 28078

Please print:

Property Owner: Jay-Cai Builders, LLC

Property Owner: _____

The undersigned, registered property owners of the above noted property, do hereby authorize

Larry Thompson, LSS, of Thompson Environmental Consulting, Inc.
(Contractor / Agent) (Name of consulting firm)

to act on my behalf and take all actions necessary for the processing, issuance and acceptance of this permit or certification and any and all standard and special conditions attached.

Property Owner's Address (if different than property above):
105 Yellow Birch 100p, Mooresville, NC 28117

Telephone: 980-339-0068

We hereby certify the above information submitted in this application is true and accurate to the best of our knowledge.

From the Consultant: The NC LSS evaluation attached to this application is to be used to produce a design and construction features for permitting in accordance with Session Law 2018-114 Section 11. (c).

Owner Signature: _____
(Mar 11, 2021 12:53 EST)

Date: Mar 11, 2021

Owner Signature: _____

Date: _____

Sent at: 3/10/2021 6:08:23 PM

Re: PPBPS Gravity Fed Line Lengths

From: Brad Johnson <brad@tjpanel.com>
To: Larry Thompson <larry@thompsonenv.com>

Hi Larry,

Yes if you have equal distribution on those 54.5 foot gravity fed lines I don't see any reason a pump would be required. Let me know if you need anything!

Thanks for all you do,

Brad Johnson
T & J Panel Inc.
704•880•7697

> On Mar 10, 2021, at 9:02 AM, Larry Thompson <larry@thompsonenv.com> wrote:
>
> Hi Brad,
>
> I have a project in Mecklenburg County where I would like to run 54.5-foot long lines, gravity flow. The T&J manual states that no gravity line should exceed 50 feet unless fed at multiple points. Would T&J Panel be okay with 54.5-foot long gravity fed lines and, if so, can I get confirmation in writing for a county submittal?
>
> Thanks in advance,
>
> Larry
>
> Larry Thompson, PWS, LSS
> Thompson Environmental Consulting, Inc.
> www.thompsonenv.com
> 704-301-4881 cell

Residential Subsurface Wastewater Treatment and Disposal System Proposal

for

7540 McIlwaine Road
Charlotte, NC 28078

Tax Parcel # 01513162
MCGWS File # 10876B
March 11, 2021

Prepared for:

Jay-Cai Builders, LLC
105 Yellow Birch 100p
Mooresville, NC 28117
980-339-0068
dylanlimper@yahoo.com



Prepared by:

Larry Thompson, REHS, LSS
Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107-0541
Phone: 704-301-4881
larry@thompsonenv.com



Details

Jay-Cai Builders, LLC has contracted with Thompson Environmental Consulting, Inc. (TEC) to prepare a Session Law 2018-114 Section 11.(c) septic proposal for their property located at 7540 McIlwaine Road, Huntersville, NC 28078 (Mecklenburg County Parcel Number: 01513162)

Based upon a soils investigation performed by TEC on the 0.46-acre lot, we have determined that a sufficient amount of "Suitable" Group IV soils are available for the installation of a gravity flow Prefabricated Porous Block Panel System (PPBPS) at a 0.2755 gpd/sq. ft. long term acceptance rate (LTAR) for both the initial as well as the repair system.

Jay-Cai Builders would like to request that Mecklenburg County Groundwater and Wastewater Services (MCGWS) issue an Improvement Permit and Construction Authorization for a subsurface wastewater treatment and disposal system based upon the following proposal.

Location

The subject property is located at 7540 McIlwaine Road, Huntersville, North Carolina. From Charlotte, take Beatties Ford Road north for 9.5 miles. Turn right onto McIlwaine Road, travel 0.8 miles, and property will be located on the right.

References

Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A, Section .1900, Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, April 2017.

Design, Installation and Maintenance of the T&J Panel Wastewater Treatment System; Sixth Edition, published by T & J Panel.

Email from Brad Johnson, T&J Panel Wastewater Treatment System

Primary Investigator's Credentials

NC Registered Sanitarian No. 1208
NC Licensed Soil Scientist No. 1287
SC Certified Professional Soil Classifier No. 111
NC Subsurface Septic System Operator No. 22199
NC Grade IV Wastewater System Installer No. 1762
NC Certified Wastewater System Inspector No. 17621

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

The property owner and builder must assure that the driveway and all utilities are routed around the proposed septic drainfield and septic drainfield repair area. These areas must be protected from traffic and any form of encroachment. It is recommended that the drainfield area be fenced off with orange barrier fencing to protect it from encroachment. Water line must be a minimum of 10-feet off any portion of the septic system shown in Figure 1 – Septic Layout.

Septic installer must be preapproved by Thompson Environmental Consulting, Inc.

Plans and Specifications

A. Septic Tank

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

B. Pipe, Fittings and Supply Line

1. All discharge piping, connectors and supply lines should be made of SCH 40 PVC.
2. All joints must be properly "welded" utilizing the appropriate PVC cement for each application.

C. Distribution Method

1. The system will be fed by a distribution box.

D. Drainfield Installation

1. The proposed drainfield location has been marked on-site utilizing metal stemmed flags. Once this area has been approved by the county, the property owner/builder should mark this area and isolate it as much as possible from construction traffic. Prior to the system installation, the septic contractor shall contact the county for a preconstruction conference at which time the drainfield area will be re-verified.
2. Under no circumstances shall any construction take place within the drainfield area while the soil is in a wet condition. If the installer has doubts as to whether the drainfield area is dry enough to begin construction, the environmental health specialist for this area should be contacted for permission to proceed with the installation.
3. The specified system is a Type IIIe pre-fabricated permeable block panel system – specifically the 16-inch panel system manufactured by T&J Panel Wastewater

System, Patent No. 4013559; telephone: 1-800-222-2577. The installer must follow the manufacturer's guidelines for installing the T&J Panel System and should request an installation manual from the manufacturer prior to beginning construction.

4. The initial drainfield consists of four (4) lateral trenches, each being 2-feet wide by 54.5 feet long.
5. It is essential that the lateral trenches be constructed on contour with the land, with each trench being excavated level from beginning to end. The use of a tripod mounted engineer's level is essential to assure that each trench is constructed as level as possible.
6. The maximum trench depth for this system shall be **36 inches**. Each trench shall be placed on a minimum of 8-foot on centers.
7. Once trenches are dug, the side walls shall be raked, and a light dusting of lime applied.
8. Backfill the trench with 6 inches of sand and level to grade. Once leveled, place 1 x 4 or 6-inch boards on top of the sand the entire length of each trench. Once the grade boards have been set, the panels may be set into the trench. The panels should be placed 6 inches apart.
9. Once the panels have been set, line the top chamber of each panel with the S.A.P. – sand alternative product (geotextile material provided by T&J Panel).
10. Tar seal rope, or approved foam, should be placed in the "U" outs of each end of the panel to form seals. Once the tar rope is in place, the Schedule 40 PVC connectors can be added, and the seal completed by the addition of more tar rope on the top and sides of the pipe. Now that the connection and seals are complete, a block cap is placed on each end of the panel so that all openings are covered.
11. Once the panels for each trench have been installed and the top of the panels closed, the trench is ready to be backfilled to the top with the sand used in the trench bottom. At this point, the trenches should be left open for the final inspection by the county environmental health specialist.

E. Backfill

1. Backfill sand shall be clean, washed, medium sand that is naturally occurring and falls within the gradation of ASTM C-33 specification (used in the ready-mix industry and is readily available).

F. Final Landscaping

1. As previously stated, the final soil cover over the drainfield shall be a minimum of 6 inches deep. Additional soil may need to be brought in to obtain the required cover depth.
2. The drainfield shall be shaped to shed rainwater and be free from low spots.
3. The drainfield area should be planted with grass as soon as possible to prevent erosion. The soil should be properly tilled, limed (if necessary) and fertilized prior to planting. After applying grass seed, the area should be heavily mulched with straw or other suitable material.

PPBPS Design Worksheet

File #: 10876B
Tax #: 1513162
Address: 7540 Mclwaine Road
Huntersville, NC 28078
Consultant: Larry Thompson
Phone: 704-301-4881

Reviewed By:
Date:

System Requirements

Design Flow	360	gpd
LTAR	0.276	gpd/ft.^2
Linear footage	436	ft. (conventional)
Linear footage	218	ft. (50% Reduction)

Design Layout

Laterals	Length (ft)	# Panels
Line # 1	54.5	12
Line # 2	54.5	12
Line # 3	54.5	12
Line # 4	54.5	12
Totals	**218**	**48**

Absorption Area

Length (ft)	Width (ft)	Area (ft^2)
218	2	436

T & J Panels	
Linear Feet	# Panels
50	11
60	14
70	16
80	18
90	21
100	23

G. Utility Conflicts

1. The builder and property owner must take special care in planning for water, power, gas, telephone and cable lines. These utilities shall be kept clear of all parts of the septic system and its proposed repair area. Improper planning for underground utilities can negatively impact the installation and, in some cases, cause irreparable damage and permit revocation. If there are any questions regarding preferred routes, contact Mecklenburg County Groundwater and Wastewater Services (MCGWS) as soon as possible.
2. Lawn irrigation should not be placed over the drainfield area.

Maintenance

I. In General

1. The homeowner must maintain the drainfield area through periodic mowing. The drainfield must not be allowed to become overgrown.
2. The septic tank should be pumped every 4 years or when the solids within the septic tank reach an elevation that is equivalent to 25 percent of the volume of the tank. In some situations, the tanks may need to be pumped more frequently. If using a garbage disposal, it is recommended that the homeowner has the septic and pump tanks cleaned out annually.
3. When it becomes necessary to clean the effluent filter, the filter should be removed, and the accumulated debris washed back into the septic tank – not onto the lawn.
4. Any damp areas, leakages or malfunctions in the drainfield area should be addressed immediately.
5. Divert gutter downspouts and surface water runoff away from the septic and pump tanks.

Design Specifics

Daily Design Flow:	360 GPD – 3 bedroom house
Septic Tank Size:	1000 gallons (minimum)
Effluent Loading Rate:	Design = 0.2755 GPD per sq. ft.
Drain Field Type:	PPBPS
Distribution Method:	Distribution Box
Number of Drainlines:	4
Drainlines:	(4) 3' Wide x 54.5' Long
Total Trench Length:	218 Linear Feet
Number of Panels per Line:	12

Total Number of Panels:	48
Maximum Trench Depth:	36 Inches
Final Cover Requirement:	6 Inches (minimum)

Repair Specifics

Repair System Type:	PPBPS
Repair System LTAR:	0.2755 gpd/ft^2
Repair Distribution Method:	Gravity Flow (D-Box)
Total Length of Repair Lines:	218 Feet (237 Available)
Maximum Repair Line Trench Depth:	36 Inches

Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107

Sheet 1 of 1
PROPERTY ID #: 015-131-62
COUNTY: Mecklenburg

SOIL/SITE EVALUATION
***for* ON-SITE WASTEWATER SYSTEM**

OWNER: Say-Cai Builders, LLC
ADDRESS: 105 Yellow Birch Loop, Mooresville, NC 28117 DATE EVALUATED: 3-9-21
PROPOSED FACILITY: Lot PROPOSED DESIGN FLOW (.1949): 360gpd PROPERTY SIZE: 0.46 ac
LOCATION OF SITE: 7540 McIlwaine Road, Huntersville, NC 28078 PROPERTY RECORDED:
WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
1	LS 2%	0-8	SBK/CL	FR/SS/SP/SCP/C	—	48"	—	—	PS 0.3
		8-48	SBK/C	FI/SS/P/SCP					
2	LS 3%	0-12	SBK/CL	FR/SS/SP/SCP	—	48"	—	—	PS 0.3
		12-40	SBK/C	FI/SS/P/SCP					
		40-48	SBK/SCL	FR/SS/SP/SCP					
3	LS 3%	0-5	FILL						
		5-12	SBK/SCL	FR/SS/SP/SCP					
		12-40	SBK/C						
		40-48	SBK/SCL						
4									

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

OTHER FACTORS (.1946): Provisional
SITE CLASSIFICATION (.1948):
EVALUATED BY: Larry Thompson
OTHER(S) PRESENT:

LICENSED SOIL SCIENTIST LARRY B. THOMPSON JR. 1287 STATE OF NORTH CAROLINA

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

Updated February 2014

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	SEXP (Slightly Expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			EXP (Expansive)	M (Massive)
D (Drainage Way)						CR (Crumb)
DS (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
FP (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
FS (Foot Slope)						ABK (Angular Blocky)
H (Head Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiCL (Silty Clay Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SCL (Sandy Clay Loam)			**MOIST**	**WET**
S (Shoulder Slope)		SiL (Silt Loam)				
T (Terrace)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SiC (Silty Clay)			FI (Firm)	S (Sticky)
		C (Clay)			VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None	None	EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

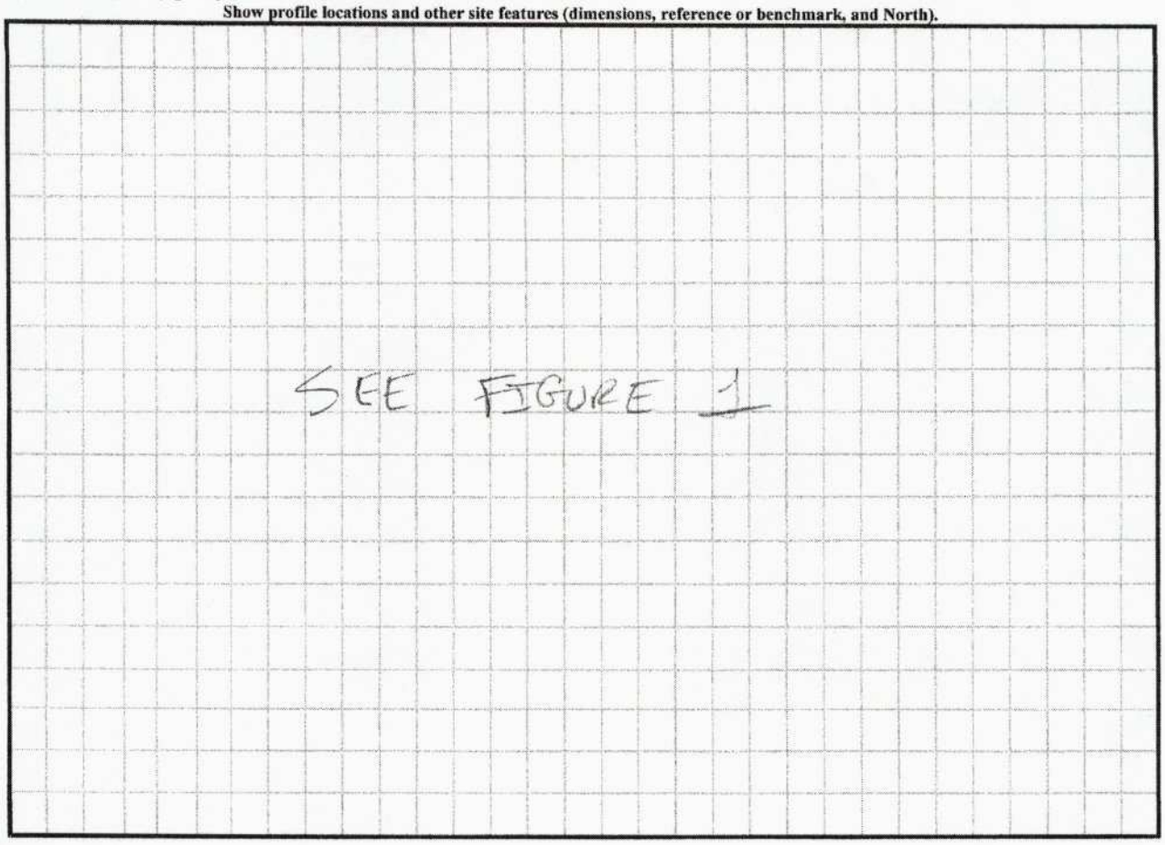
NOTES

HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

Show profile locations and other site features (dimensions, reference or benchmark, and North).



MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 03/23/21
Receipt #: 127945
Check / Auth #: CHARGE
Received By: ELLISLW

Amount: 200.00
Tendered: 200.00
Returned: 0.00

Account Information

Account #: X57941
Contractor: LIMPER DYLAN
Attn:
Address: 105 YELLOW BIRCH LOOP
Address:
City/State/Zip: MOORESVILLE, NC 28117

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Septic Operational Permit 7540 MCILWAINE RD		1	200.00	200.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
200.00					

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 03/23/21
Receipt #: 127946
Check / Auth #: CHARGE
Received By: ELLISLW

Amount: 200.00
Tendered: 200.00
Returned: 0.00

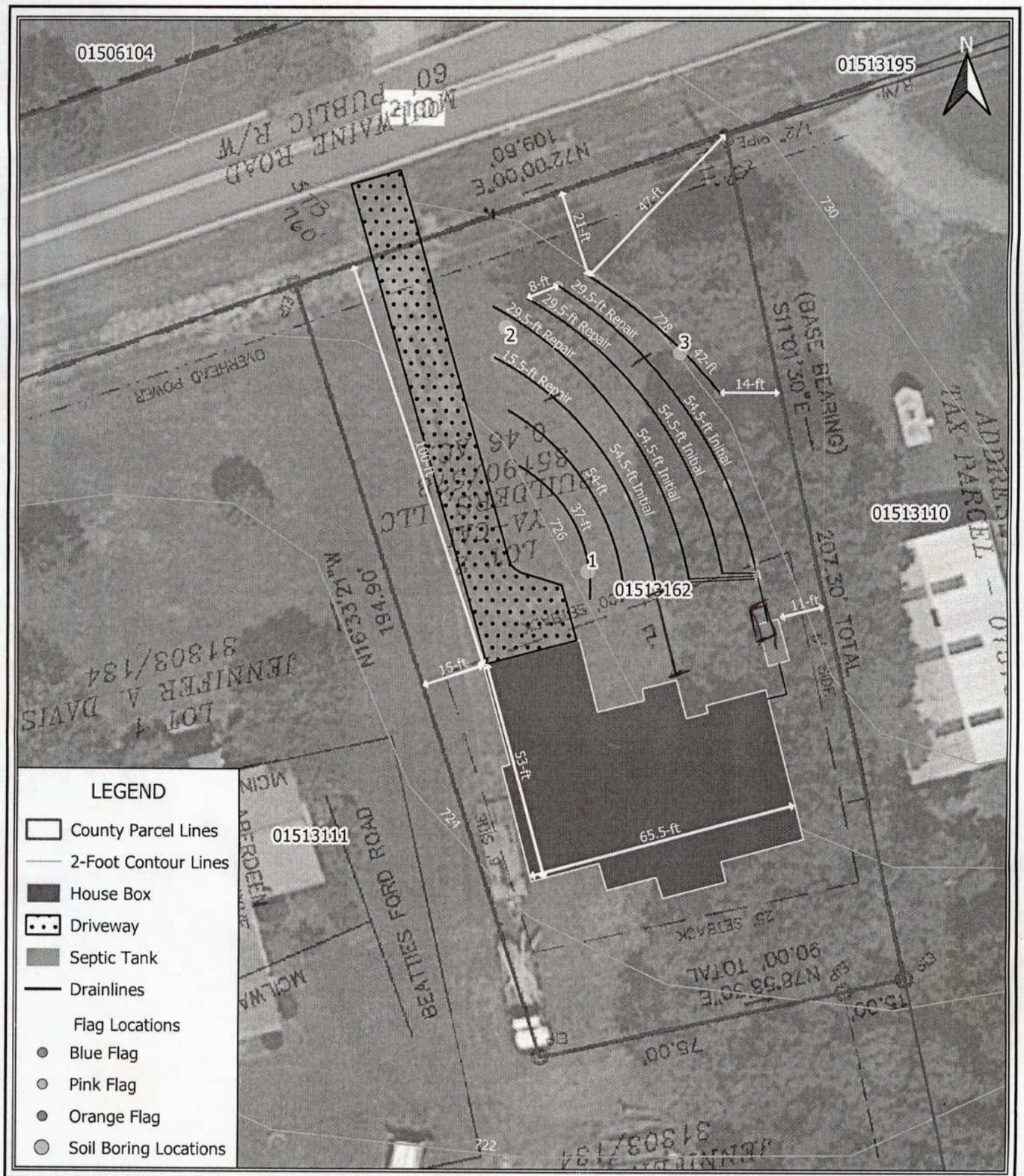
Account Information

Account #: X57941
Contractor: LIMPER DYLAN
Attn:
Address: 105 YELLOW BIRCH LOOP
Address:
City/State/Zip: MOORESVILLE, NC 28117

Item	Description	Permit#	Quantity	Unit Price	Total Price
0734	Septic Construction Authorizat 7540 MCILWAINE RD		1	200.00	200.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
400.00					



Thompson Environmental Consulting
WATER · WASTEWATER · WETLANDS

Prepared For:
Jay-Cai Builders, LLC

Proposed Septic Layout

7540 McIlwaine Road
Huntersville, NC 28078

Mecklenburg County

Date: March 2021

Scale: 0 15 30 ft

TEC Job #: 21-67

Figure 1

FEE: 200.00
DATE: 3/26/2021

CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 10876B

PERMIT NUMBER: 30011916

PARCEL NUMBER: 01513162

JOB LOCATION INFORMATION

ADDRESS: 7540 MCILWAINE RD

CITY: HUNTERSVILLE **STATE: NC** **ZIP:** 28078

ISSUED TO: JAY-CAI BUILDERS LLC

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 3/26/2021

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30011916, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

2. A PRE-CONSTRUCTION MEETING MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A LICENSED SEPTIC TANK CONTRACTOR WITH THE NORTH CAROLINA ONSITE WASTEWATER CONTRACTOR INSPECTOR CERTIFICATION BOARD.

3. ANY ALTERATION IN SITE OR SOIL CONDITIONS (INCLUDING LOCATION OF STRUCTURES AND APPURTENANCES) OR MODIFICATION IN USE, DESIGN WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS AS SPECIFIED IN THE ASSOCIATED IMPROVEMENT PERMIT AND APPLICATION, MAY SUBJECT THIS CONSTRUCTION AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. THIS CONSTRUCTION AUTHORIZATION AS PROVIDED IN G.S. 130A-335(f) AND G.S. 130A-336(b) SHALL BE VALID FOR A PERIOD EQUAL TO THE VALIDITY OF THE IMPROVEMENT PERMIT, AND MAY BE ISSUED AT THE SAME TIME THE IMPROVEMENT PERMIT IS ISSUED.

Authorized Agent Signature

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr. Suite 8000 Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

Septic System Pre-Construction Meeting Checklist

File # 10676B App# 1916 Tax Parcel# 01513162

Property Owner: Jay-Cai Builders

Job Location Address: 7540 McIlwaine

City: Huntersville State: NC Zip Code: 28078

1. Does System design match facility, flow & wastewater characteristics?

   ☑ YES ☐ NO

   Comments: _____

2. Is there sufficient available space for the septic systems initial and repair areas?

   ☑ YES ☐ NO

   Comments: _____

   _____

3. Can the septic system be installed per the permit conditions and drawing on file?

   ☑ YES ☐ NO

   Comments: _____

   _____

*If "NO" is checked for any of the above the existing permit may need to be revoked.

Permission is hereby given to ☐ install ☐ alter ☐ repair an on-site wastewater treatment & and disposal system, with subsurface soil absorption and effluent discharge meeting all of the construction requirements of 15A NCAC 18A .1900 which are in effect on the date of granting this approval. **System shall not be installed while soils are in wet condition.**

Heather Ray
Authorized Agent

9-22-21
Date

_____
Others Present

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 10876B Permit #: 11916 Tax Parcel #: 01513162

Property Owner: Ya-Cal Builders LLC

Job Location Address: 7540 MCILWAINE RD

City: Huntersville State: NC Zip Code: 28078

Operation Permit Issuance Date: 2/1/22 Contractor Name: Thomas Frye

Permitted Design Flow: 360 GPD Liquid Capacity of Dosing Tank: NA gallons

Liquid Capacity of Septic Tank: 1000 gallons Tank Manufacture STB 760 Effluent Pump Model: NA

Drainfield Installation ☐ N/A

Trench Depth: 36 inches

Trench Width: 2 feet

Line Spacing: _____ feet (O.C.)

Total line length: 8 feet

# of Lines: 4 @ 54.5 feet

Depth of Media: 16 inches (Type) PPBPs

Depth of Cover: 12 inches

Distribution Device: Dbox

Bed Installation *(For Repair Installations ONLY.)* ☑ N/A

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Depth of Cover: _____ inches

Distribution Device: _____

Water Supply Source

☑ Municipal ☐ Private Well ☐ Community Well

☐ Other _____

System Installation Setbacks

Distance from Building Foundation: 10 feet

Distance from Property Line: 10 feet

Distance from Water Supply Source: 10 feet

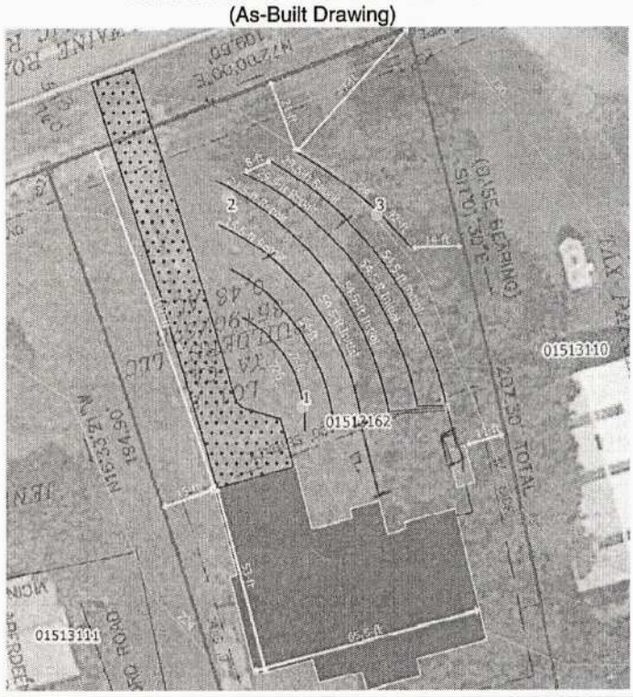
Inspection Dates

Tank(s) Inspected: 10/5/21

Excavation Inspected: 10/5/21

Pump & Controls Inspected: _____

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)



The undersigned has inspected the Septic Tank System described above, and certifies it has been ☑ installed ☐ altered ☐ repaired ☐ as detailed in the plot above ☐ in accordance with the permit issued and meets the provisions of 15A NCAC 18A. 1900, "Laws and Rules for Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. The issuance of this Operation Permit does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 15A NCAC 18A. 1900 in addition to those listed below under "Comments." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

Notice: Disturbance of the designated repair area may result in the Suspension or Revocation of this permit.

Comments: System Classification & Type: IIIE/PPBPs/G/Na/Na

DENR Authorized Agent: Heather Ray Signature: Heather Ray

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 10876B Permit #: 11916 Tax Parcel #: 01513162

Property Owner: Ya-Cal Builders LLC

Job Location Address: 7540 MCILWAINE RD

City: Huntersville State: NC Zip Code: 28078

OPERATION PERMIT CONDITIONS:

I. Performance: System shall perform in accordance with 15A NCAC 18A .1961.

II. Monitoring: System shall be monitored as required by 15A NCAC 18A .1961.

III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

IV. Operation: System shall be operated in accordance with 15A NCAC 18A .1961.

System Classification: IIIe

*Operation Permits for Type V and VI systems expire five (5) years from the date of issuance (in accordance with Table V(a)). The system owner must contact GWS six (6) months prior to expiration for permit renewal.

Subsurface system operator required: Yes ☐ No ☑

☐ This type of system requires the system owner to maintain a contract with a certified operator to perform system inspection, maintenance, and reporting as required in 15A NCAC 18A .1961. and Table V(a). The system owner is responsible for all fees associated with these services.

☐ System does not require inspection by GWS on a routine frequency.

☐ System requires inspection by GWS once every five (5) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every three (3) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every twelve (12) months. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every six (6) months. The system owner is responsible for all fees associated with the inspection.

V. Other:

DENR Authorized Agent: Heather Ray Date: 2/1/22

Signature: Heather Ray

THOMPSON ENVIRONMENTAL CONSULTING, INC.
WATER ♦ WASTEWATER ♦ WETLANDS

February 1, 2022

Heather Ray, REHS
Mecklenburg County Groundwater and Wastewater Services
700 N. Tryon Street
Charlotte, NC 28202

Subject: 7540 McIlwaine Road

Dear Ms. Ray,

The purpose of this letter is to inform you that I have performed an inspection of the wastewater treatment and disposal system installed at 7541 McIlwaine Road, Huntersville, NC and I am satisfied that the installation meets the intent of the original proposal provided to your office.

Please feel free to call on me if you have any further questions or concerns regarding this project.

Sincerely,

Larry B. Thompson, Jr., NCEHS, LSS

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