MECKLENBURG COUNTY
HEALTH DEPARTMENT

4121B # 8685

1 AUG '16 PM12:13

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: 13905611
STREET ADDRESS: 8635 Brookgreen Drive
CITY: Mint Hill
STATE: NC ZIP: 28227
SUBDIVISION NAME: Glencroft
LOT #: 76 LOT SIZE (acres): 0.67
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: 860
NUMBER OF BEDROOMS: 1
NUMBER OF OCCUPANTS: 1
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 community well - off site

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: 1 ____ ____ 2 ____

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? 2000 ☐ UNKNOWN

11. WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? _____ ☒ N/A

12. PROPERTY OWNER:
NAME: George John Frey IV
ADDRESS: 8635 Brookgreen Drive
CITY: Mint Hill
STATE: NC ZIP: 28227
WORK PHONE: 704 898-5669
MOBILE PHONE: same
FAX: _____
E-MAIL: john.frey67@gmail.com

13. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:
NAME: same
ADDRESS: _____
CITY: _____
STATE: _____ ZIP: _____
WORK PHONE: _____
MOBILE PHONE: _____
FAX: _____
E-MAIL: _____

Frey.John67@gmail.com

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

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.

_____ 8/1/2016

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

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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
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

File #: _____

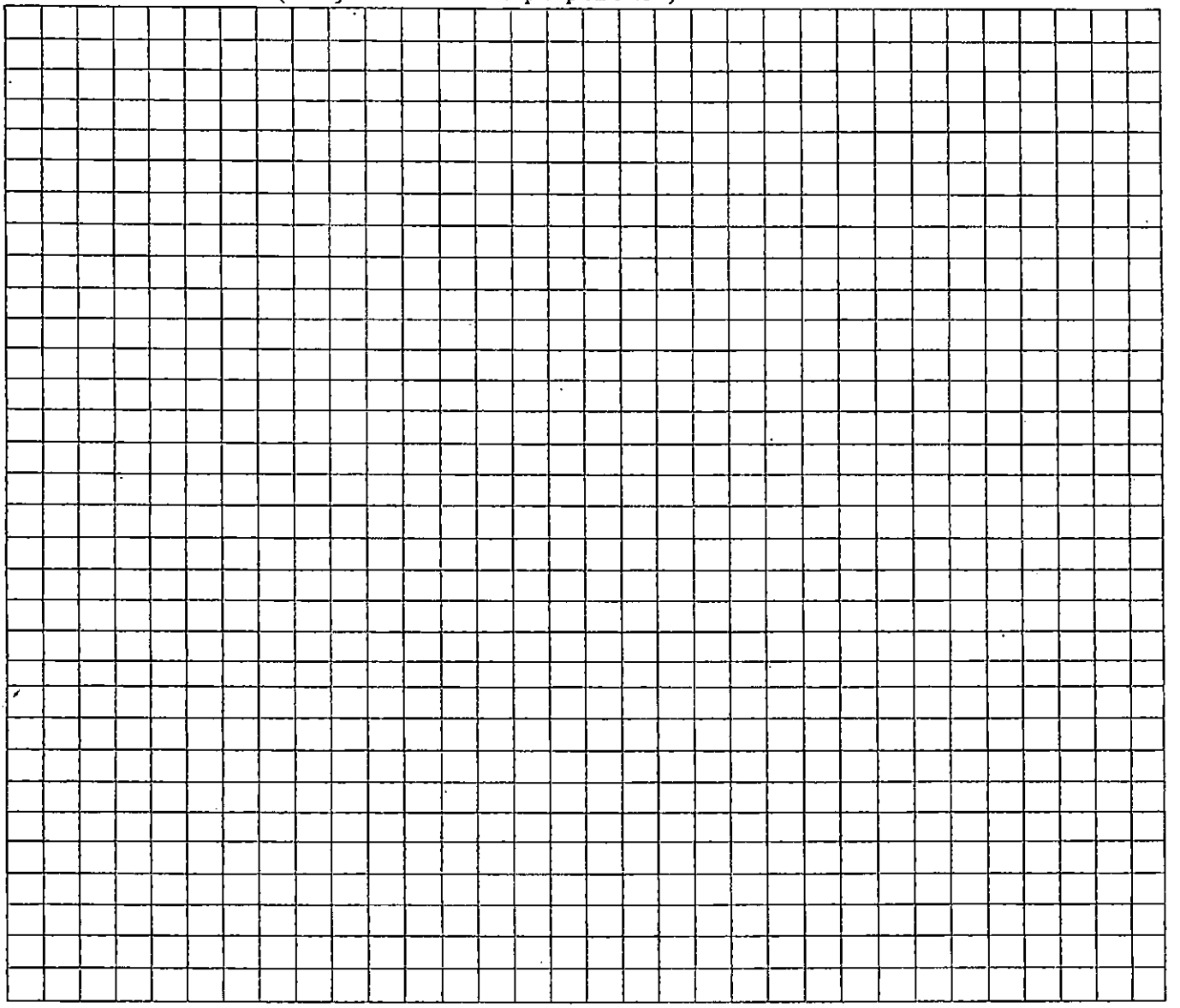
PROPOSED PLOT PLAN

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: 8635 Brookgreen Drive Tax Parcel #: 13905611

Subdivision Name: Glencroft Lot #: 76

(survey attached in lieu of plot plan below)



Property Owner's or Owner's Legal Representative Signature

8/1/2016
Date

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

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

Sheet: 1 of 2
Property ID: 139-056-11
Lot #: 76
File #: 4121B
AppID: 8496

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: George John Frey IV
Address: 8635 Brookgreen Dr., Mint Hill, NC 28227
Proposed Facility: 1BR House
Design Flow (.1949): 240 GPD
Location of Site: 8635 Brookgreen Dr., Mint Hill, NC 28227
Water Supply: [X] Public [ ] Individual [X] Well [ ] Spring [ ] Municipal
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Applicant: owner
Date Evaluated: 10/4/2016
Property Size: 0.67 ac
Property Recorded: 2000

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
Pit #1	LS 9%	0 - 32	sbk C	S P FR SEXP	>64"	32	NA	NA	saprolite inclusions 8 - 32" clay inclusions 32 - 64"	PS IV 0.3	36"
		32 - 64	mass L Sap	SS SP FR SEXP							
Boring #2	LS 11%	0 - 6	gr SL	SS SP FR SEXP	>48"	48	NA	NA		PS IV 0.3	32"
		6 - 40	sbk C	S P FR SEXP							
		40 - 48	sbk CL	SS SP FR SEXP							
Boring #3	LS 8%	0 - 10	gr SL	SS SP FR SEXP	>46"	46	NA	NA		PS IV 0.3	30"
		10 - 24	sbk SCL	SS SP FR SEXP							
		24 - 45	abk C	S P FI SEXP							
		45	Saprolite								

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	III g	IV a
Site LTAR (gpd/sq ft)	0.3	0.3

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

COMMENTS: Property has an existnig 3 BR house. This evaluation is for Mother-In-Law's Suite.

Landscape Position	Group	Texture	.1955 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	sg-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		mass-Massive
LS-Linear Slope				cr-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	gr-Granular
NS-Nose Slope		L-Loam		sbk-Subangular Blocky
HS-Head Slope				abk-Angular Blocky
CC-Concave Slope	III	Si-Silt	0.6 - 0.3	pl-Platy
CV-Convex Slope		SiCL-Silty Clay Loam		pr-Prismatic
T-Terrace				Sap-Saprolite
FP-Flood Plain		CL-Clay Loam		**Structure Prefixes**
D-Drainage Way		SCL-Sandy Clay Loam		w-weak
				m-moderate
		SiL-Silt Loam		s-strong
				f-fine
	IV	SC-Sandy Clay	0.4 - 0.1	m-medium
		SiC-Silty Clay		c-coarse
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	SS-Slightly Sticky	SEXP-Slightly Expansive
FR-Friable	S-Sticky	EXP-Expansive
FI-Firm	VS-Very Sticky	
VFI-Very Firm	NP-Non-Plastic	**Classification**
EFI-Extremely Firm	SP-Slightly Plastic	US-Unsuitable
	P-Plastic	PS-Provisionally Suitable
	VP-Very Plastic	S-Suitable
		NA-Not Applicable

Sketch of Soil Evaluation Locations



Supervisor/Administrative Professional Checklist

New Septic ☑ New Well ☐ Use Existing ☑ Alteration ☐ Modified Plot Plan ☐

New Septic Fees Paid:

IP ($250.00) _____ Initials/Date

CA ($200.00) _____ Initials/Date

OP ($200.00) _____ Initials/Date

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

New Well Fee Paid: $550.00 _____ Initials/Date

Use Existing Fee Paid: $100.00 _____ Initials/Date

Alteration Fee Paid: $300.00 (Total) $200 (If use existing was paid) 300 Initials/Date

Modified Plot Plan Fee Paid: $100.00 _____ Initials/Date

Floor plans need to be submitted and reviewed before CA can be issued. ☐ Reviewed ☑ _____

Please create and date CA 10-23-17

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

Septic file completed. ☐ _____ Well file completed. ☐ _____

Send permit for signature. ☑ Signature received. ☑ _____

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

Certified operator contract is on file. ☐ _____

FEE: 200.00
DATE: 11/3/2017

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

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 4121B

PERMIT NUMBER: 4121B

PARCEL NUMBER: 13905611

JOB LOCATION INFORMATION

ADDRESS: 8635 BROOKGREEN DR

CITY: CHARLOTTE **STATE: NC** **ZIP:** 28227

ISSUED TO: GEORGE JOHN FREY IV

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 10/23/2017

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30008685, 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 April Barngarner

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: **30008685** GWS File #: **4121B** Tax Parcel #: **139-056-11**

- 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. The Construction Authorization is **NOT** transferable. 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):** 1/11/2022

Type of Installation: Residential - Alteration Lot Number: 76

Structure Type: HOUSE Size (ft^2): 860 # Bedrooms: 5 # Occupants: 1

Building Foundation: Concrete Slab Water Supply: Other Springs

II. Initial System Type: Accepted **System Classification:** IIIg

Initial System Specifications:

Design Flow (gpd):	120	LTAR (gpd/ft^2):	.3	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	300	Total Trench Length (ft):	100
Maximum Trench Depth (in):	36	Depth of Media (in):	12	Distribution Device:	Drop Boxes		

III. Repair System Type: PPBPS (pressurized) **System Classification:** IVa

Repair System Specifications:

Design Flow (gpd):	600	LTAR (gpd/ft^2):	.3	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1500
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1000	Total Trench Length (ft):	333
Maximum Trench Depth (in):	36	Depth of Media (in):	N/A	Distribution Device:	Manifold (LPP Distri		

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: April Bumgarner Owner/Legal Agent: _____
Print Name

Signature: April Bumgarner Signature: _____

Date Issued: 1/11/2017

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: **30008685** GWS File #: **4121B**

IV. Permit Conditions/Comments:

- This type of repair system requires the installation of a pump tank and all associated components. This type of system will require routine inspections by our office. The system owner is responsible for all fees associated with these inspections.
- This type of repair system requires the property owner to obtain a contract with a Certified Operator to perform routine inspections and maintenance on the system.
- This type of repair system requires periodic inspections by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- 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.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- Foundation drains shall be constructed not to discharge water onto or across any part of the septic system.
- The septic system shall be located at least 10 feet from any foundation drain.

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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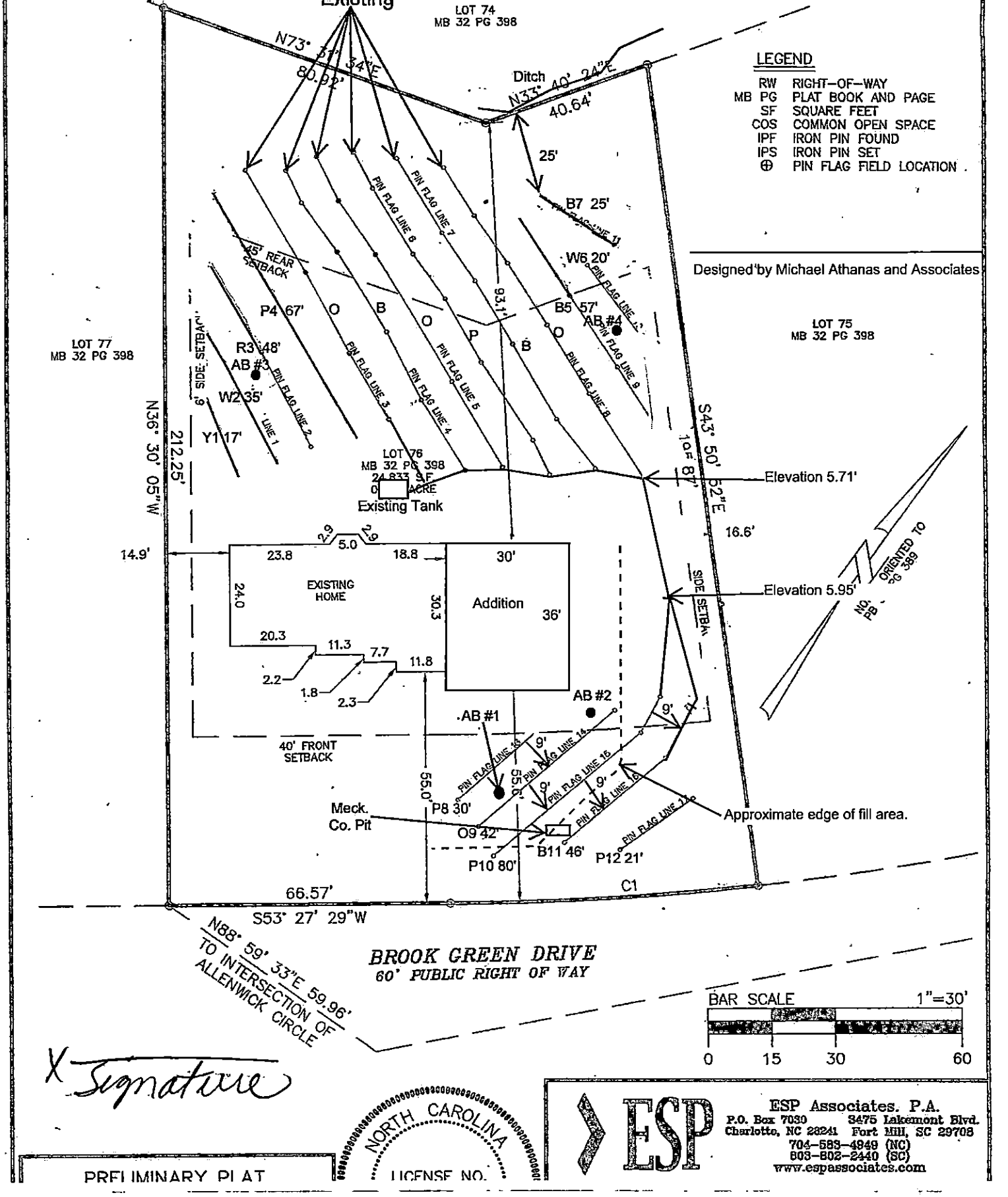
Authorized Agent: April Bumgarner

Signature: April Bumgarner

Date Issued: 1/11/2017

Owner/Legal Agent: _____
Print Name

Signature: _____


Existing
LOT 74
MB 32 PG 398
N73° 37' 34"E
80.92'
Ditch
N33° 40' 24"E
40.64'
LEGEND
RW RIGHT-OF-WAY
MB PG PLAT BOOK AND PAGE
SF SQUARE FEET
COS COMMON OPEN SPACE
IPF IRON PIN FOUND
IPS IRON PIN SET
⊕ PIN FLAG FIELD LOCATION
Designed by Michael Athanas and Associates
25'
B7 25'
W6 20'
B5 57'
AB #4
45' REAR SETBACK
P4 67'
R3 48'
AB #3
W2 35'
Y1 17'
6' SIDE SETBACK
LOT 77
MB 32 PG 398
LOT 75
MB 32 PG 398
93.1'
N36° 30' 05"W
212.25'
S43° 50' 52"E
107.87'
LOT 76
MB 32 PG 398
24,833 SF
0.57 ACRE
Existing Tank
Elevation 5.71'
16.6'
14.9'
2.9
5.0
2.9
23.8
18.8
30'
EXISTING HOME
24.0
30.3
Addition
36'
20.3
11.3
7.7
11.8
2.2
1.8
2.3
SIDE SETBACK
Elevation 5.95'
ORIENTED TO NO. PB 389
AB #2
AB #1
9'
40' FRONT SETBACK
PIN FLAG LINE 13
PIN FLAG LINE 14
PIN FLAG LINE 15
PIN FLAG LINE 16
PIN FLAG LINE 17
PIN FLAG LINE 18
55.0'
55.6'
Meck. Co. Pit
P8 30'
O9 42'
B11 46'
P12 21'
P10 80'
Approximate edge of fill area.
66.57'
C1
S53° 27' 29"W
N88° 59' 33"E 59.96'
TO INTERSECTION OF ALLENWICK CIRCLE
BROOK GREEN DRIVE
60' PUBLIC RIGHT OF WAY
BAR SCALE 1"=30'
0 15 30 60
X Signature
NORTH CAROLINA
LICENSE NO.
PRELIMINARY PLAT
ESP
ESP Associates, P.A.
P.O. Box 7030 3475 Lakemont Blvd.
Charlotte, NC 28241 Fort Mill, SC 29708
704-583-4949 (NC)
803-802-2440 (SC)
www.espassociates.com



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

Reference: Data Sheet for Lot 76 Glencroft; 8635 Brookgreen Drive; Mecklenburg County, NC

House Footprint: Existing
Foundation Type: Crawl Space
Building Setbacks: 45' front/rear; 6' side
Water Source: Public Water
Number of Bedrooms: 4/480 GPD Currently; Upgrade to 5/600 GPD
Proposed LTAR: 0.3 GPD/FT2
Proposed System Type: 25% Reduction
Proposed Repair System Type: LP PPBPS; 9' centers
Distribution: Gravity
Septic/Pump Tank Size: Existing 1500gallons
Proposed Trench Bottom: 36"

Line	Design Length	Repair Length	Actual Length
Yellow 1		17'	17'
White 2		35'	35'
Red 3		48'	48'
Pink 4		67'	67'
Orange			Existing 88'
Blue			Existing 88'
Orange			Existing 88'
Pink			Existing 88'
Blue			Existing 88'
Orange			Existing 88'
Blue 5		55'	**57'**
White 6		20'	**20'**
Blue 7		25'	**25'**
Pink 8		24'	24'
Orange 9		42'	42'
Pink 10	**80'**		**80'**
Blue 11	**40'**		**46'**
Pink 12		21'	21'

Initial System: 533'existing; 120' for upgrade to 5 Bedroom; 25% Reduction
Repair System: 354'; LP PPBPS

Comments:

- The purpose of this evaluation is to re-permit the site due to the homeowner not wishing to clear the area previously permitted. The permitted area in the rear of the property will now become part of the repair. 120' of 25% reduction will be installed in the area indicated on the site plan.
- MA&A evaluated the site using multiple auger borings, and confirmed the LTAR of 0.3
- We are proposing an additional septic line be installed at a length of 120 linear feet. Using lines P10, and B11. These lines should be added to the existing system using D Boxes or end caps.
- Most of the repair area being proposed has been previously permitted by Mecklenburg County.
- The existing tank is 1500 gallons, so no new tank will be required.

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

Septic System Pre-Construction Meeting Checklist

File # 41218 App # 8685 Tax Parcel # 139-056-11

Property Owner: John Frey

Job Location Address: 8635 Brookgreen Dr

City: Mint Hill State: NC Zip Code: 28227

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.**

April Baumgarner
Authorized Agent

10-23-17
Date

Steve Autry
Others Present

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 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 #: 4121B Permit #: 8685 Tax Parcel #: 139-056-11

Property Owner: John Frey

Job Location Address: 8635 Brookgreen Dr

City: Mint Hill State: NC Zip Code: 28227

Operation Permit Issuance Date: 11-1-17 Contractor Name: Steve Autry

Permitted Design Flow: 120 GPD Liquid Capacity of Dosing Tank: N/A gallons

Liquid Capacity of Septic Tank: Existing gallons Manufacture N/A Effluent Pump Model: N/A

Drainfield Installation ☐ N/A

Trench Depth: 48" inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 136 feet

# of Lines: 2 @ varies feet

Depth of Media: 12 inches (Type) EQ4

Depth of Cover: 12+ inches

Distribution Device: Endcaps

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

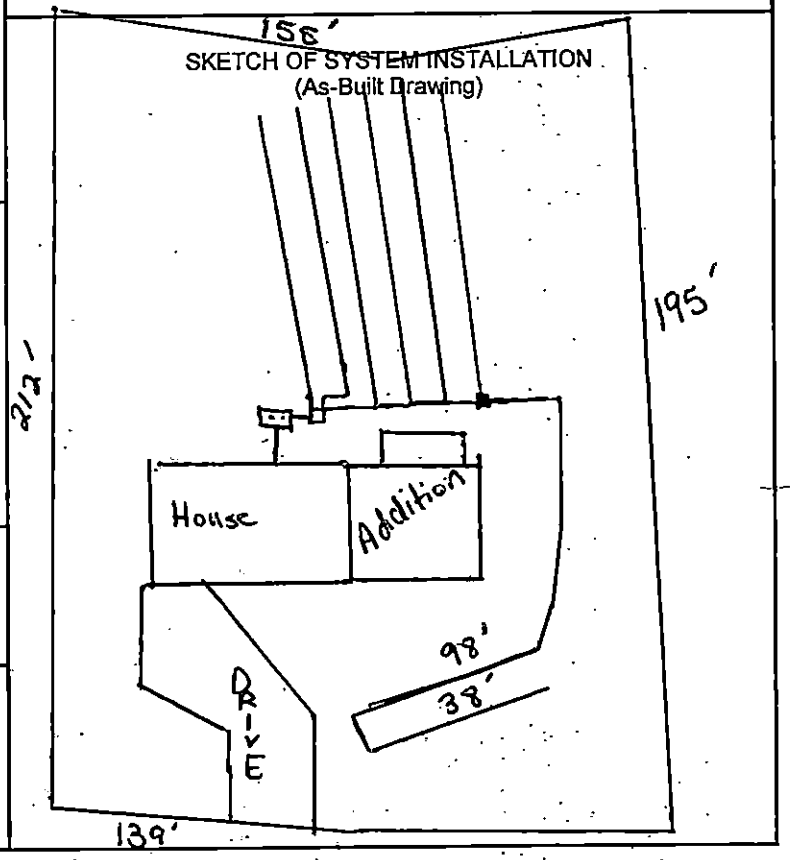
Distance from Water Supply Source: 10' feet

Inspection Dates

Tank(s) Inspected: Existing

Excavation Inspected: 10-27-17

Pump & Controls Inspected: N/A



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: III g | EQ4 / g / NA | NA

3rd line Bleeding out due to grinder pump cutting supply line.

DENR Authorized Agent: April Bumgarner Signature: April Bumgarner

3rd-6th line replumbed to serial distribution, soil packed b/t line + grinder pump.

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

File #: 4121B Permit #: 8685 Tax Parcel #: 139-056-11

Property Owner: John Frey

Job Location Address: 8635 Brookgreen Dr

City: Mint Hill State: NC Zip Code: 28227

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: IIIg

*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: April Bumgarner Date: 11-1-17

Signature: April Bumgarner



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

April Bumgarner
Mecklenburg County Health Department
700 N. Tryon Street Suite 208
Charlotte, NC 28202

RE: 8635 Brookgreen Drive Mint Hill, NC; PID #13905611

Dear Ms. Bumgarner:
Please see the statement below concerning the system installation at 8635 Brookgreen Drive, Mint Hill, NC.

Michael Athanas and Associates visited the site on 10/20/2017 to look at the system installation. It appears that the system was installed according to our specifications and in the area delineated. Please let me know if you need any further information. Thank you.

Sincerely,

Michael Athanas
Michael Athanas and Associates

Bumgarner, April

From: Bumgarner, April
Sent: Tuesday, October 17, 2017 8:11 AM
To: 'mike@michaelathanas.com'
Subject: 8635 Brookgreen Dr

Hi Michael

I wanted to let you know that I spoke to Steve this morning and he will be installing the system at 8635 Brookgreen Dr either Thursday or Friday of this week.

April Bumgarner
Environmental Specialist
Groundwater & Wastewater Services
Mecklenburg County Health Department
Office 980-314-1625
Cell 704-512-9831
April.Bumgarner@MecklenburgCountyNC.gov

Please tell us about your most recent experience with:
Mecklenburg County Groundwater and Wastewater Services at GWS.
Mecklenburg County Pools and Environmental Health Services at PEHS.

CONFIDENTIALITY NOTICE: This message and any attachments included are from the Mecklenburg County Public Health and are for sole use by the intended recipient(s). The information contained herein may include confidential or privileged information. Unauthorized review, forwarding, printing, copying, distributing, or using such information is strictly prohibited and may be unlawful. If you received this message in error, or have reason to believe you are not authorized to receive it, please contact the sender by reply email and destroy all copies of the original message. Thank you!

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:	
IA issued date:	
OP Issued date:	
Review performed by:	Jeremy Michael
Date performed:	1/12/2017

Created at 1/12/2017 3:57 PM by Michael, Jeremy
Last modified at 1/12/2017 3:57 PM by Michael, Jeremy

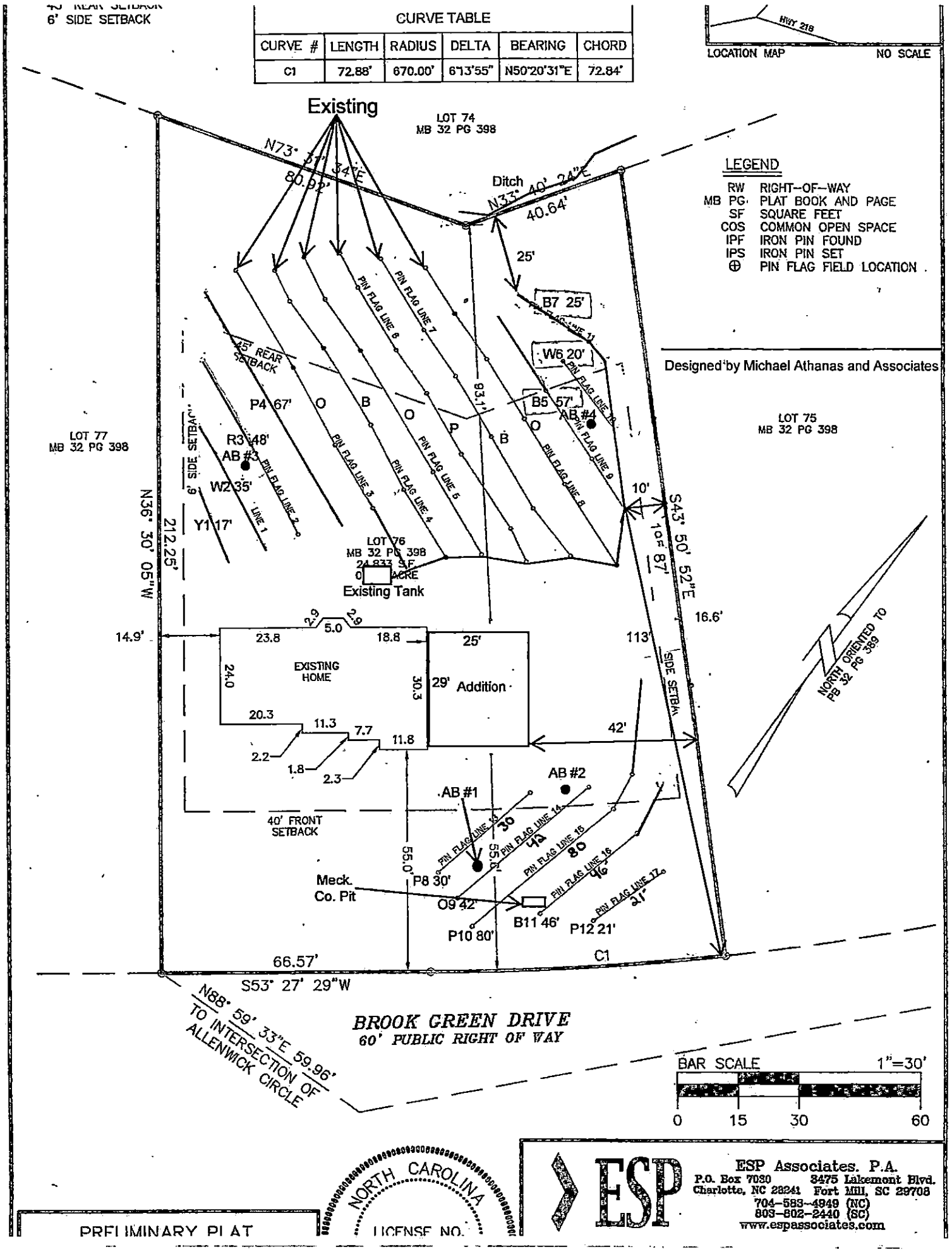
Close

John Frey
704-898-5269

File

Groundwater & Wastewater Services: Septic Project File & D

GWS File #:	April Bumgarner
WASPS App #:	8685
Primary ES assigned to project:	April Bumgarner
Secondary ES assigned to project:	
Project Type:	Alteration
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


45' REAR SETBACK
6' SIDE SETBACK
CURVE TABLE
CURVE # | LENGTH | RADIUS | DELTA | BEARING | CHORD
C1 | 72.88' | 670.00' | 6°13'55" | N50°20'31"E | 72.84'
HWY 218
LOCATION MAP
NO SCALE
Existing
LOT 74
MB 32 PG 398
N73° 57' 34"E
80.92'
Ditch
N33° 40' 24"E
40.64'
25'
LEGEND
RW RIGHT-OF-WAY
MB PG PLAT BOOK AND PAGE
SF SQUARE FEET
COS COMMON OPEN SPACE
IPF IRON PIN FOUND
IPS IRON PIN SET
⊕ PIN FLAG FIELD LOCATION
B7 25'
W6 20'
B5 57'
AB #4
AB #3
R3 48'
P4 67'
W2 35'
Y1 17'
93.1'
Designed by Michael Athanas and Associates
LOT 77
MB 32 PG 398
LOT 75
MB 32 PG 398
LOT 76
MB 32 PG 398
24,833 S.F.
0.57 ACRE
Existing Tank
N36° 30' 05"W
212.25'
S43° 50' 52"E
87'
10'
16.6'
14.9'
113'
EXISTING HOME
23.8
24.0
5.0
2.9
18.8
30.3
25'
29' Addition
20.3
11.3
7.7
11.8
42'
2.2
1.8
2.3
AB #2
AB #1
40' FRONT SETBACK
55.0'
P8 30'
Meck. Co. Pit
O9 42'
B11 46'
P12 21'
P10 80'
66.57'
C1
S53° 27' 29"W
N88° 59' 33"E 59.96'
TO INTERSECTION OF ALLENWICK CIRCLE
BROOK GREEN DRIVE
60' PUBLIC RIGHT OF WAY
NORTH ORIENTED TO PB 32 PG 389
BAR SCALE 1"=30'
0 15 30 60
PRELIMINARY PLAT
NORTH CAROLINA
LICENSE NO.
ESP
ESP Associates, P.A.
P.O. Box 7030 Charlotte, NC 28241
3475 Lakemont Blvd. Fort Mill, SC 29708
704-583-4949 (NC)
803-802-2440 (SC)
www.espassociates.com

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet __1__ *of* __1__
PROPERTY ID #: 8635 Brookgreen Drive
COUNTY: Mecklenburg

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: John Frey
APPLICATION DATE_____
ADDRESS: 8635 Brookgreen Drive Charlotte, NC 28227
DATE EVALUATED: 11/2016
PROPOSED FACILITY: 1-Bedroom Addition; 4 to 5 Bedroom PROPOSED DESIGN FLOW (.1949): 600GPD PROPERTY SIZE: 0.57 Acres
LOCATION OF SITE: 8635 Brookgreen Drive
PROPERTY RECORDED: 12/21/1999
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	
AB 1	L 3-4%	0"-36"	R C SBK	SS SP FR SEXP		41"	Few to common saprolite inclusions 36"-41" PS	None	0.3
		36"-41"	R CL WSBK	SS SP FR SEXP					
		41"-48"	V L Saporlite M	SS SP FR SEXP					
AB 2	L 3-4%	0"-6"	Fill			48"	Few to common Saporlite inclusions 24"-48"	None	0.3
		6"-24"	R C SBK	SS SP FR SEXP					
		24"-48"	R CL WSBK	SS SP FR SEXP					
AB 3	L 3-4%	0"-5"	Br CL WSBK	SS SP FR SEXP		48"	Few to common Saporlite inclusions 30"-48"	None	0.3
		5"-30"	R C SBK	SS SP FR SEXP					
		30"-48"	R CL WSBK	SS SP FR SEXP					
AB 4	L 3-4%	0"-48"	R C SBK	SS SP FR SEXP		62"	Few to common Saporlite inclusions 48"-62"	None	0.3
		48"-62"	R CL WSBK	SS SP FR SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	300 FT2	1155 FT2
System Type(s)	25% Reduction	PPBPS
Site LTAR	0.3	0.3

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

EVALUATED BY: Michael Athanas and Associates
OTHER(S) PRESENT: _____

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	NEXP (Non-expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			SEXP (Slightly Expansive)	M (Massive)
D (Drainage Way)					EXP (Expansive)	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.

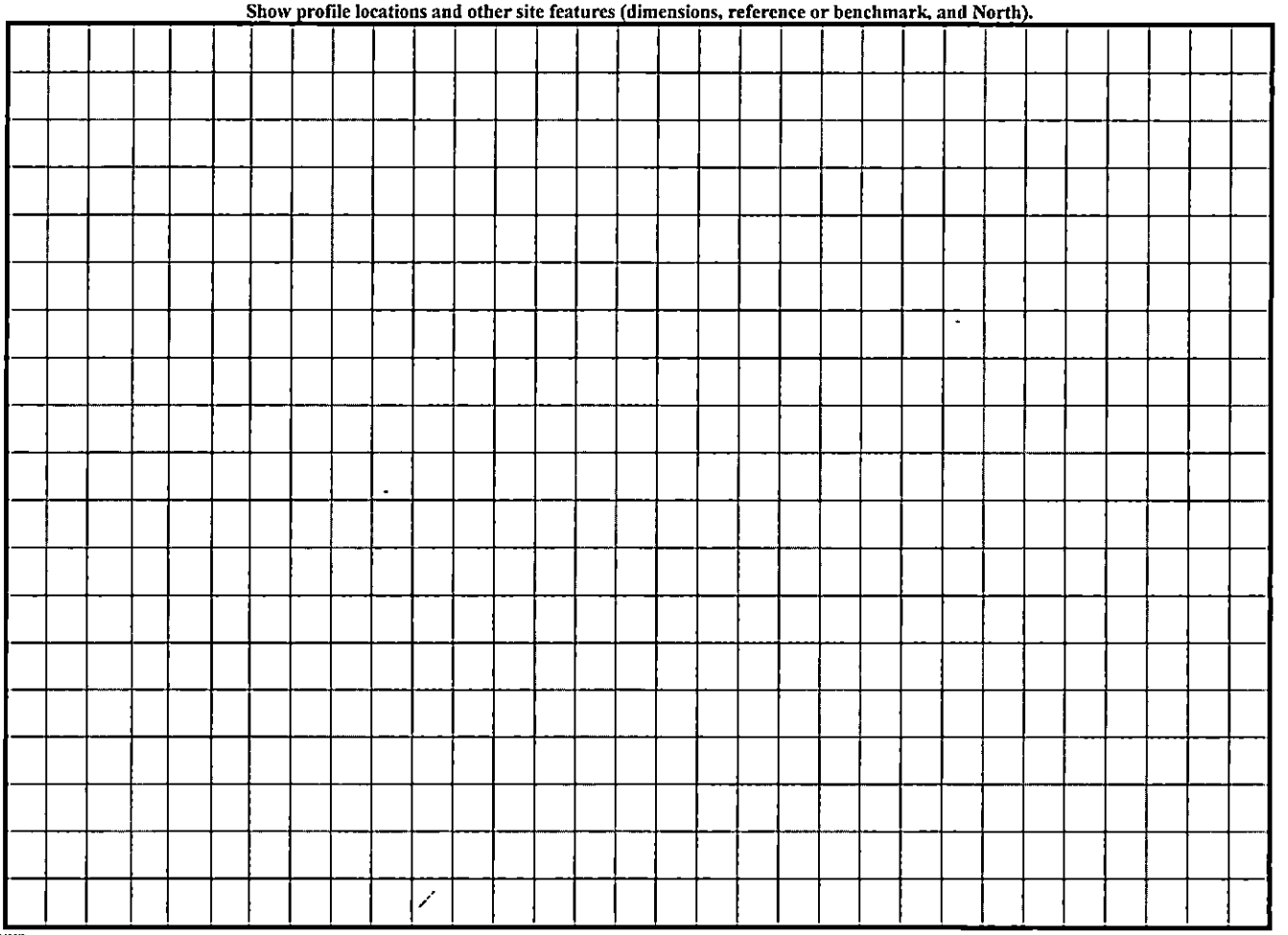
NOTES

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).

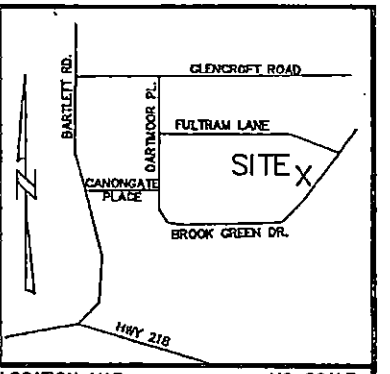


DENR (######)

Review (#####)

NOTES:

1.) THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENT(S) AND OR RIGHT(S) OF WAY.
2.) SUBJECT TRACT IS LOCATED OUTSIDE THE 100–YEAR FLOODPLAIN AS SHOWN ON FEMA FIRM COMMUNITY PANEL NO. 3710551200K EFFECTIVE DATE 2–19–2014
3.) DATE OF SURVEY–
4.) THE PROPERTY LINES WERE TAKEN FROM UNRECORDED PLAT BY EASTERN LAND ASSOCIATES, INC. DATED FEBRUARY 7, 2000.
5.) FRONT SETBACK (TAKEN FROM REF. PLAT) :
40' FRONT SETBACK
45' REAR SETBACK
6' SIDE SETBACK
6.) PID 13905611
7.) DB 10982 PG 847
8.) PB L76 M32–389
9.) THE PROPERTY SHOWN HEREON LIES OUTSIDE OF THE "100+1" BUILDING RESTRICTION FLOODLINE AS SHOWN ON PLAT BOOK 31 PAGE 883.



LOCATION MAP NO SCALE

CURVE TABLE					
CURVE #	LENGTH	RADIUS	DELTA	BEARING	CHORD
C1	72.88'	670.00'	6°13'55"	N50°20'31"E	72.84'

LOT 74
MB 32 PG 398

N73° 31' 34"E
80.92'

N33° 40' 24"E
40.64'

LEGEND

RW	RIGHT–OF–WAY
MB PG	PLAT BOOK AND PAGE
SF	SQUARE FEET
COS	COMMON OPEN SPACE
IPF	IRON PIN FOUND
IPS	IRON PIN SET

45' REAR SETBACK

93.1'

6' SIDE SETBACK

6' SIDE SETBACK

LOT 77
MB 32 PG 398

LOT 76
MB 32 PG 398
24,833 S.F.
0.570 ACRE

LOT 75
MB 32 PG 398

S43° 50' 52"E
195.87'

N36° 30' 05"W
212.25'

16.6'

14.9'

2.9 5.0 2.9
23.8 18.8
24.0
EXISTING HOME
30.3
20.3 11.3 7.7 11.8
2.2 1.8 2.3

20.2'

25.0
PROPOSED STRUCTURE
36.0 36.0
25.0

this dimension is flexible a couple feet if the design requires a shift

NORTH OREINTED TO PB 32 PG 389

40' FRONT SETBACK

55.0'

55.6'

66.57'

C1

S53° 27' 29"W

N88° 59' 33"E 59.9'
TO INTERSECTION OF ALLENWICK

BROOK GREEN DRIVE
60' PUBLIC RIGHT OF WAY

BAR SCALE 1"=30'



PRELIMINARY PLAT
NOT FOR RECORDATION CONVEYANCES OR SALES

NORTH CAROLINA
LICENSE NO.
C-0587
ESP ASSOCIATES, P.A.

No.	Date	By	Revision
1	4/6	MWE	EDITS PER JOHN FREY EMAIL

ESP Associates, P.A.
P.O. Box 7030 3475 Lakemont Blvd.
Charlotte, NC 28241 Fort Mill, SC 29708
704-583-4949 (NC)
803-802-2440 (SC)
www.espassociates.com

PLOT PLAN OF LOT 76
8635 BROOKGREEN DRIVE
GLENCROFT, PHASE 2, SECTION 2
JOHN FREY
CLEAR CREEK TOWNSHIP
MECKLENBURG CO., NORTH CAROLINA

Project No.	Designed By	Drawn By	Project Mgr.	Checked By
EP05		MWE	DAW	MWE

Scale: 1"=30'
Date: 4/6/2016
Drawing No.: EP05.820.216
Job No.: EP05.820.000
Sheet 1 of 1

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MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

GWS Septic System Design Review

GWS File #: 4218 Approved ☐ Disapproved ☐

Design Review: [signature] ☑ ☐

Field Review: ABB ☑ ☐

*Projects are not considered "APPROVED" until both sections above are completed and indicate an APPROVED status.

Reference: Data Sheet for Lot 76 Glencroft; 8635 Brookgreen Drive; Mecklenburg County, NC

House Footprint: Existing
Foundation Type: Crawl Space
Building Setbacks: 45' front/rear; 6' side
Water Source: Public Water
Number of Bedrooms: 4/480 GPD Currently; Upgrade to 5/600 GPD
Proposed LTAR: 0.3 GPD/FT2
Proposed System Type: 25% Reduction
Proposed Repair System Type: LP PPBPS
Distribution: Gravity
Septic/Pump Tank Size: Existing 1500gallons
Proposed Trench Bottom: 36"

Line	Design Length	Repair Length	Actual Length
Yellow 1		17'	17'
White 2		35'	35'
Red 3		48'	48'
Pink 4		67'	67'
Orange			Existing 88'
Blue			Existing 88'
Orange			Existing 88'
Pink			Existing 88'
Blue			Existing 88'
Orange			Existing 88'
Blue 5	**55'**		**57'**
White 6	**20'**		**20'**
Blue 7	**25'**		**25'**
Pink 8		30'	30'
Orange 9		42'	42'
Pink 10		80'	80'
Blue 11		46'	46'
Pink 12		21'	21'

Initial System: 533'existing; 100' for upgrade to 5 Bedroom; 25% Reduction
Repair System: 386'; LP PPBPS

Comments:

- The purpose of this evaluation is to upgrade the system from a 4-bedroom to a 5-bedroom. The new structure will have a shared wall with the existing structure.
- MA&A evaluated the site using multiple auger borings, and confirmed the LTAR of 0.3
- We are proposing an additional septic line be installed at a length of 100 linear feet. Using lines B5, W6, and B7. These lines should be added to the existing system using D Boxes or end caps.
- Most of the repair area being proposed has been previously permitted by Mecklenburg County.
- The existing tank is 1500 gallons, so no new tank will be required.
- There is a ditch located near the rear property line in the area that the system is being expanded. Keep the new lines 25' from the ditch.

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: 30008685 GWS File #: 4121B Tax Parcel #: 139-056-11

- 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. The Construction Authorization is NOT transferable. 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):** 1/11/2022

Type of Installation: Residential - Alteration Lot Number: 76

Structure Type: HOUSE Size (ft^2): 860 # Bedrooms: 5 # Occupants: 1

Building Foundation: Concrete Slab Water Supply: Other Springs

II. Initial System Type: Accepted **System Classification:** IIIg

Initial System Specifications:

Design Flow (gpd): 120 LTAR (gpd/ft^2): .3 Septic Tank Size (gal): 1500 Pump Tank Size (gal): N/A

Trench Width (ft): 3 Trench Spacing (ft): 9 Absorption Area (ft^2): 300 Total Trench Length (ft): 100

Maximum Trench Depth (in): 36 Depth of Media (in): 12 Distribution Device: Drop Boxes

III. Repair System Type: PPBPS (pressurized) **System Classification:** IVa

Repair System Specifications:

Design Flow (gpd): 600 LTAR (gpd/ft^2): .3 Septic Tank Size (gal): 1500 Pump Tank Size (gal): 1500

Trench Width (ft): 3 Trench Spacing (ft): 9 Absorption Area (ft^2): 1000 Total Trench Length (ft): 333

Maximum Trench Depth (in): 36 Depth of Media (in): N/A Distribution Device: Manifold (LPP Distri

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: April Bumgarner Owner/Legal Agent: George John Frey
Print Name

Signature: April Bumgarner Signature: George John Frey

Date Issued: 1/11/2017

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: **30008685** GWS File #: **4121B**

IV. Permit Conditions/Comments:

- This type of repair system requires the installation of a pump tank and all associated components. This type of system will require routine inspections by our office. The system owner is responsible for all fees associated with these inspections.
- This type of repair system requires the property owner to obtain a contract with a Certified Operator to perform routine inspections and maintenance on the system.
- This type of repair system requires periodic inspections by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners; associated with this inspection.
- 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.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- Foundation drains shall be constructed not to discharge water onto or across any part of the septic system.
- The septic system shall be located at least 10 feet from any foundation drain.

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: April Bumgarner
Signature: April Bumgarner
Date Issued: 1/11/2017

Owner/Legal Agent: George John Frey
Print Name
Signature: G John Frey