

9424 LITTLE KERN LN

19935228

1/11/2008

duponbj

Groundwater and Wastewater Services File Imaging Project
May 2007
Barcode Font = IDAutomationHC39M

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)_____ Initials/Date

Modified Plot Plan Fee Paid: $100.00 4/5/16 RC Initials/Date

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

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. ☐ _____

IP only for modified plot plan

Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 6944B WASPS App #: ~~1901~~ 8155

Primary ES assigned to project: Philo Walker

Secondary ES assigned to project:

Project Type: New System ☑ Alteration ☐ Repair ☐ Modified Plot Plan ☑ 3/30/16

I. File Review:

Rule or Law				
	Permit Application			
.1937(d)	Is the Application complete	Yes ☑	No ☐	N/A ☐
.1937(d)	Is there a Site plan/Plat with application	Yes ☑	No ☐	N/A ☐
.1937(d)	Is the Facility shown?	Yes ☑	No ☐	N/A ☐
.1937(d)	Are appurtenances shown	Yes ☑	No ☐	N/A ☐
	Site Evaluation Information			
.1939 (a)(1)	Topography and Landscape Position Recorded?	Yes ☑	No ☐	N/A ☐
.1940 (a-g)	Slope % Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Texture Class Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Structure type Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Consistence Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Mineralogy Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(3)	Soil Wetness Condition Recorded?	Yes ☐	No ☐	N/A ☑
.1939 (a)(4)	Soil Depth to Rock or Parent Material Recorded When Encountered	Yes ☐	No ☐	N/A ☑
.1939 (a)(5)	Depth to Restrictive Horizons Recorded When Encountered?	Yes ☐	No ☐	N/A ☑
.1939 (a)(6)	Sufficient Available Space Recorded?	Yes ☑	No ☐	N/A ☐
.1937(m)	Are the Profile Locations Shown?			
.1939(a)	Are the S/PS Profiles in system & in repair area?	Yes ☐	No ☐	N/A ☐
& .1945(b)	Number of auger borings made: 3 Were sufficient auger borings made?	Yes ☐	No ☐	N/A ☐
.1939(d), .1955, .1956, .1957	LTAR 3	Yes ☐	No ☐	N/A ☐
	Improvement Permit/Construction Authorization			
.1937(g) 130A-336(a)	Proposed System Type stated-Initial	Yes ☑	No ☐	N/A ☐
.1945(b) 130A-336 (a)(3)	Proposed System Type stated-Repair System location identifiable by setbacks - Initial	Yes ☑	No ☐	N/A ☐
.1937(g) .1945(b)	System components shown – Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Repair area shown	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Does System design match facility, flow & WWcharacteristics?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is System design consistent with soil/site conditions?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is the System located in the approved area?	Yes ☑	No ☐	N/A ☐
130A-336(a)	Is the Design flow (gpd) indicated?	Yes ☑	No ☐	N/A ☐

130A-336(a)	Number of Bedrooms, employees, seats, etc. indicated?			
.1937(g)	Trench depth indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench width indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench length indicated?	Yes ☑	No ☐	N/A ☐
130A-336(a)(1)	Proposed/existing well shown?	Yes ☑	No ☐	N/A ☐
130A-336(a)(1)	Property line lengths shown?	Yes ☐	No ☐	N/A ☑
130A-336(a)	Facility/appurtenance setbacks shown from fixed points?	Yes ☑	No ☐	N/A ☐
		Yes ☑	No ☐	N/A ☐
	Operation Permit			
.1937(i)	System type as described in table V(a) of rule .1961	Yes ☐	No ☐	N/A ☐
.1937(i)	Conditions for system performance, operation, maintenance, monitoring and reporting.	Yes ☐	No ☐	N/A ☐

II. WASPS Review:

Construction authorization issued	Yes ☐	No ☐	N/A ☐
Installation approval issued	Yes ☐	No ☐	N/A ☐
Operation permit issued	Yes ☐	No ☐	N/A ☐
Other related documentation	Yes ☐	No ☐	N/A ☐

Comments: # Items requiring correction/modification: _____

IA issued date: _____

OP issued date: _____

Review performed by: IR Date performed: 6/27/07

MECKLENBURG COUNTY
HEALTH DEPARTMENT

6944B #815

5 APR '16 AM 9:39

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: 19935228
STREET ADDRESS: 9424 Little Kern Ln
CITY: Charlotte
STATE: NC ZIP: 28278
SUBDIVISION NAME: The Sanctuary
LOT #: 137 LOT SIZE (acres): 5.405
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: 6,400
NUMBER OF BEDROOMS: 5
NUMBER OF OCCUPANTS: 10
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:** ____ 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?** 2007 ☐ UNKNOWN

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

12. **PROPERTY OWNER:**

NAME: The Sanctuary at Lake Wylie, LLC
ADDRESS: 6120-A Brookshire Blvd
CITY: Charlotte
STATE: NC ZIP: 28216
WORK PHONE: (980) 321-5179
MOBILE PHONE: _____
FAX: _____
E-MAIL: tskipper@crescentcommunities.com

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

NAME: Paul Penninger
ADDRESS: 595 JM Penninger Rd
CITY: Lexington
STATE: NC ZIP: 27292
WORK PHONE: _____
MOBILE PHONE: (704) 996-6330
FAX: _____
E-MAIL: pgpenninger@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.

pgp (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.

_____ 3/30/16

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

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OFFICE USE ONLY

O SURVEY PLAT TO SCALE SUBMITTED O SCALED SITE PLAN SUBMITTED O 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

Revised on: 12/15/10

File #: 6944B

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: 9424 Little Rock Rd

Tax Parcel #: 19935228

Subdivision Name: The Sanctuary

Lot #: 137

SEE ATTACHED

Property Owner's or Owner's Legal Representative Signature

3/30/16
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

MECKLENBURG COUNTY
Health Department

E. Winters Mabry, MD
Director

(704) 432-3199

Addendum to Application for
New Well or Septic System Installation
Abandonment or Repair of Existing Well or Septic System

Your signature below confirms the following:

1. The information on the application is true, complete and accurate.
2. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliances with applicable laws and rules.
3. I acknowledge that PAUL PENNINGTON is acting as my legal representative (agent) in the submittal of the application for a water supply well or septic permit located at

PARCEL 19935228 - LOT 137 THE SANCTUARY
Number Street Town
(Or Parcel Number)
PARCEL 19909155 - LOT 123 THE SANCTUARY

James Martin VP
Property Owner (print name)
The Sanctuary at Lake Wylie, LLC

Property Owner (signature)

4/4/16
Date

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 04/07/16
Receipt #: 99875
Check / Auth #: CHECK 139
Received By: ANDRAEO

Amount: 100.00
Tendered: 100.00
Returned: 0.00

Account Information

Account #: 200000
Contractor: PENNINGER SOIL CONSULTING PLL
Attn:
Address: 595 PENNINGER RD BS
Address:
City/State/Zip: LEXINGTON, NC 27292

Item	Description	Permit#	Quantity	Unit Price	Total Price
0704	Change in Plot Plan 9424 LITTLE KERN LN		1	100.00	100.00

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

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
130.00					

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 #: **30008155** GWS File #: **6944B** Tax Parcel #: **199-352-28**

- 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):** 4/18/2021

Type of Installation: Residential - Modified Plot Plan Lot Number: 137

Structure Type: HOUSE Size (ft^2): 6400 # Bedrooms: 5 # Occupants: 10

Building Foundation: Basement With Plumbing Water Supply: Municipal

II. Initial System Type: Pump to Approved **System Classification:** IIIg

Initial System Specifications:

Design Flow (gpd):	600	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1500
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1500	Total Trench Length (ft):	500
Maximum Trench Depth (in):	30	Depth of Media (in):	12	Distribution Device:	Pressure Manifold		

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

Repair System Specifications:

Design Flow (gpd):	600	LTAR (gpd/ft^2):	0.3	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: Philo Walker Owner/Legal Agent: _____
Print Name

Signature: Philo Walker REHS Signature: _____

Date Issued: 4/18/2016

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 #: **30008155** GWS File #: **6944B**

IV. Permit Conditions/Comments:

- This type of septic system requires an inspection once every 5 years by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- 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.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- All components of the septic system must be located a minimum distance from the normal pool elevation or mean high water mark for the nearby body of water. See plot plan for minimum setback requirements.
- 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 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: Philo Walker

Signature: Philo Walker REHS

Date Issued: 4/18/2016

Owner/Legal Agent: _____
Print Name

Signature: _____

MC HD

Penninger Soil Consulting, PLLC
Ph: 704-996-6330 Email: pgpenninger@gmail.com

April 1, 2016

Crescent Communities
6120-A Brookshire Boulevard
Charlotte, North Carolina 28216

Attention: Ms. Tommie Skipper

Reference: **Technical Assistance with Septic Permitting**
The Sanctuary Subdivision - Lot 137
9424 Little Kern Road
MCHD File No.: ~~6694B~~ 6944B
5.405 Acre Tract
Mecklenburg County, North Carolina
Penninger Soil Consulting, PLLC Project No. 16-112

Dear Ms. Skipper:

Penninger Soil Consulting has provided technical assistance to obtain a possible five bedroom septic Improvement Permit from the Mecklenburg County Health Department (MCHD) for the above referenced lot. The technical assistance was performed in general accordance with Penninger Soil Consulting, PLLC Proposal No. 16-105 dated January 23, 2016.

We understand an Improvement Permit was issued by the MCHD on June 26, 2007 for a Pressure Manifold, 5-bedroom, 25 Percent Reduction primary septic system for Lot 137. The soils were evaluated and approved by Mr. Bill Marlin, former Licensed Soil Scientist with the MCDH at a 0.3 gpd/sqft Long Term Acceptance Rate (see attached 2007 Improvement Permit and Soil Profile Descriptions). We understand the existing Improvement Permit will expire on June 26, 2016 and you have requested that Penninger Soil Consulting assist you with obtaining a new Septic Improvement Permit.

Mr. Jeremy Michael, Supervisor with the MCHD, indicated during a phone conversation with Mr. Paul Penninger that the new application can be submitted as a Modified Plot Plan. The attached site plan shows the same proposed house pad size and location and drainfield location permitted by the MCHD in 2007. Your surveyor has reflagged the lot lines and has staked the proposed house pad. Penninger Soil Consulting has reflagged the proposed septic lines. The proposed septic lines were located by your surveyor in 2007.

Once the proposed septic area is permitted, it should be fenced off for protection during home construction. Access to the lot should only be by the proposed drive. There shall not be cuts of 2 feet or greater within 15 feet of any part of the permitted septic drainfield. The septic

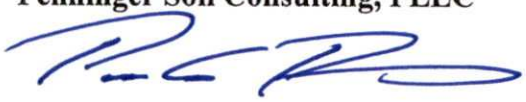
drainfield shall be at least 25 feet upslope from any basement foundation drain and 10 feet from the property lines. Any minor topographical features in the drainfield area should be filled with clean soil material or smoothed prior to system installation. Surface stormwater runoff should be diverted away from the drainfield and tank locations.

Penninger Soil Consulting appreciates the opportunity to provide these services to you. The attached information is not an Improvement Permit or Authorization to Construct, and is only to assist you and the MCHD with the site evaluation. The MCHD must approve each lot and only the MCHD can issue these permits. The attached plan is not intended to be a Professional Engineer plan. The proposed system type does not require a Consultant Design based on the MCHD GWS-10 "Septic Systems Types that Require a Design Consultant". Penninger Soil Consulting will not assist with the review of the system installation unless contracted by the buyer for those services. The MCHD should verify all soils and system specifications and required setbacks. Soil evaluations and system layouts are done based on interpretations of the rules governing wastewater treatment and disposal systems and are not guarantees for site approval or future septic system performance.

If you have any questions or require additional information please contact us at your convenience.

Sincerely,

Penninger Soil Consulting, PLLC



Paul G. Penninger, L.S.S.
Soil Scientist

Attachments:

1. Septic Application
2. Site Plan and System Specifications
3. 2007 MCHD Improvement Permit and Soil Report

Copy: MCHD

C:\Users\Paul G. Penninger\Documents\2016 Projects\16-112 Crescent Communities - The Sanctuary Lot 123 and 137\Lot 137\Lot 137 Summary Letter.doc

1. Septic Permit Application

2. Site Plan and System Specifications

Lot 137 The Sanctuary Septic System Proposal - MCHD File No. 6944B

The Sanctuary at Lake Wylie, LLC - April 1, 2016

Number of Bedrooms	**5**
Basement or Crawl	**Basement w/ Plumbing**
Design Flow (gpd)	**600**
Primary System LTAR (gpd/ft2)	**0.3 per existing MCHD IP**
Primary System Type	**Pressure Manifold 25% Reduction**
No. Lines	4 @ 125 ft. per existing MCHD IP
Total Linear Feet	500
Trench Width	3' min.
Trench Spacing	9 min.
Pump Required	Yes
Distribution Device	Pressure Manifold
Maintenance Agreement Required	No
Length and Diameter of Supply Pipe	~130' of 2" SCH 40 PVC
Flow Rate through the system	22 gpm
Elevation head	*Approx. 34'
Pressure head	2.0'
Friction head	Approx. 2'
20% Contingency	7.6'
Total Head	45.6'
Pump Requirements	22 gpm @ 45.6' of head*
	Use Goulds WEO7H Effluent Pump or Equivalent
	***Installer to verify pump after final basement grading and tank placement**
	(use MCHD and state approved pump, control panel and float controls)
Maximum Dosing Volume	300 gal - 2 doses/day @ design flow
Volume of water pumped per dose	Calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Pump Run per dose	approx. 13.6 min.
Check Valve	Yes
Siphon Break hole	No
Repair System	**LP PPBPS (T&J Panel)**
Total Linear Feet	358' + shown *(334' Required)*
Repair Loading Rate (gpd/sqft)	0.3 per Existing IP

Summary of Primary Drainfield Lines

Line No.	Use	Line Color	System Type	Line Length (Ft.)
1	System	white	PM 25%	125
2	System	blue	PM 25%	125
3	System	red	PM 25%	125
4	System	pink	PM 25%	125
			Total System:	500'

Elevations*

Location		*Approx. Elevation from Polaris Topo
Septic Tank	1500 gallon	
Pump Tank	1500 gallon	644.0
House	rear house at tanks	650.0
Pressure Manifold	at upper drainfield line	670

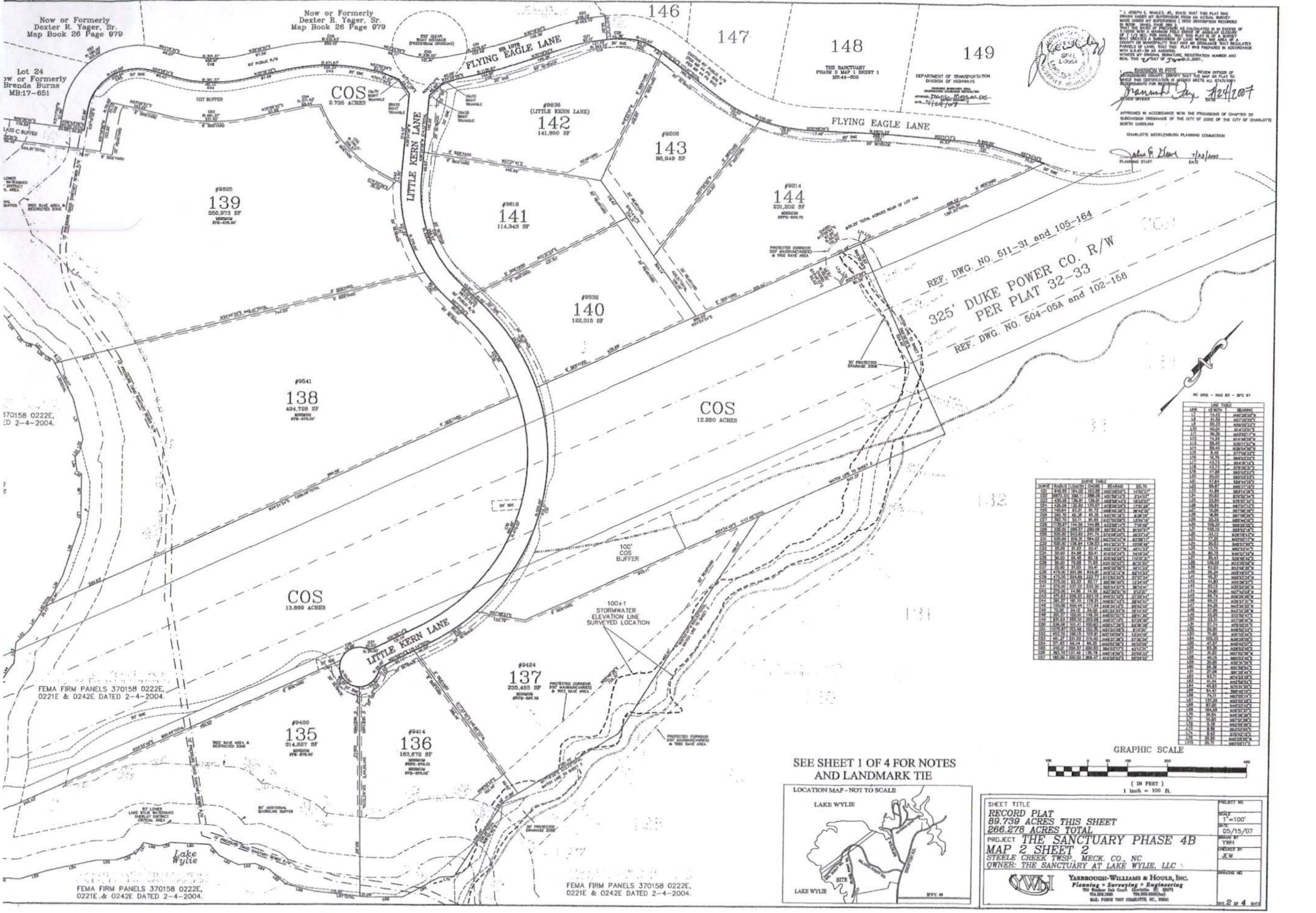
Pressure Manifold Information

Tap Size (In.)	1/2
Tap Material	SCH 80 PVC
No. Taps	4
Barrel Size (In.)	4
Barrel Material	SCH 80 PVC
Flow (gpm)/Tap	5.5

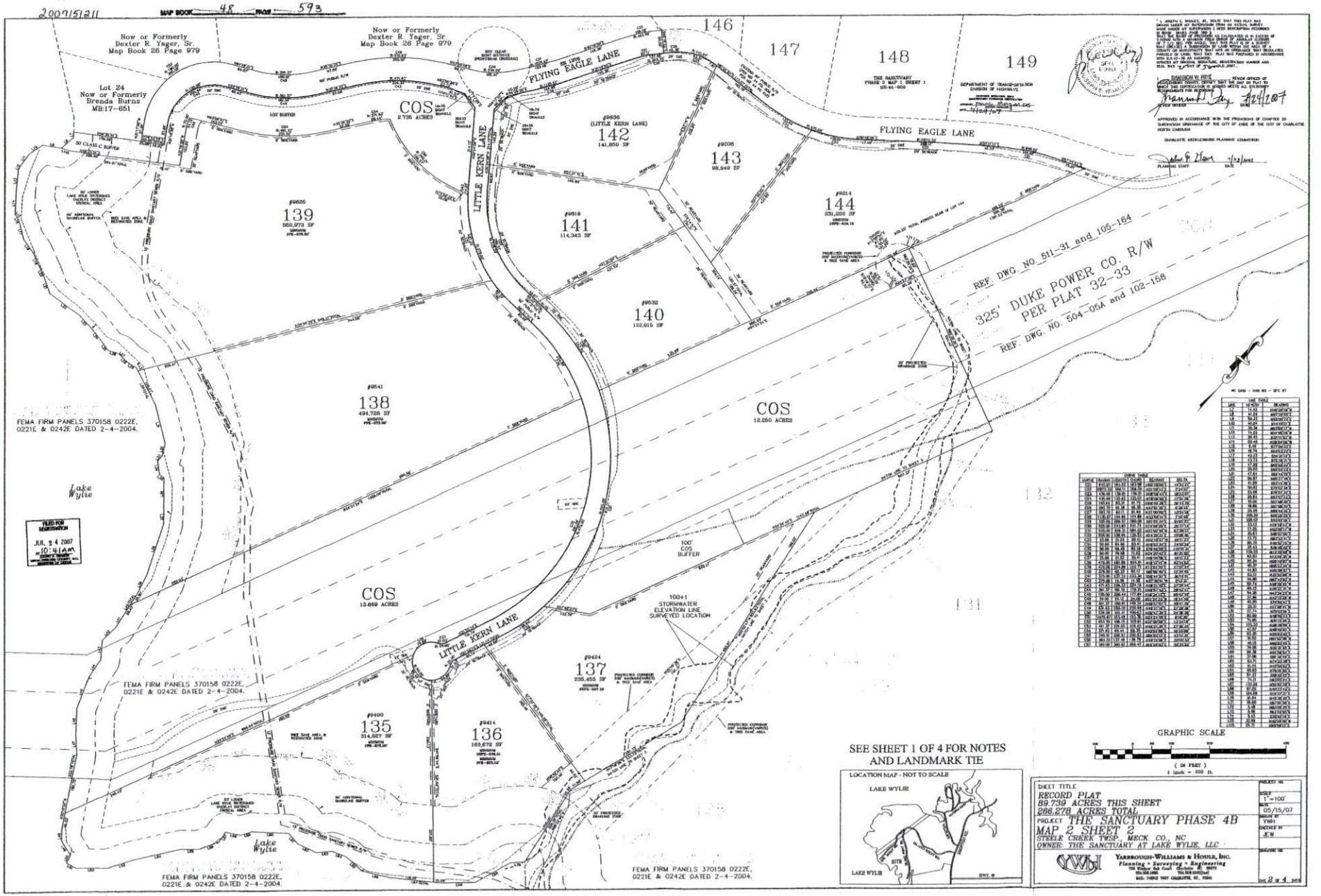
NOTES:

- ***Elevations must be verified by installer after site grading and tank placement.**
- ***Approximate elevations from Mecklenburg County Polaris GIS topographical map.**
- Use maximum trench depth of 30 inches indicated in MCHD Existing Permit.
- System proposal specifications must accompany Penninger Soil Consulting written report dated 4/1/16.

211 MAP BOOK 48 PAGE 593



X Signature


20071512II
MAP BOOK 48 PAGE 593
Now or Formerly
Dexter R. Yeager, Sr.
Map Book 26 Page 979
Now or Formerly
Dexter R. Yeager, Sr.
Map Book 26 Page 979
Lot 24
Now or Formerly
Brenda Burns
MB:17-651
146
147
148
149
FLYING EAGLE LANE
FLYING EAGLE LANE
LITTLE KERN LANE
LITTLE KERN LANE
COS
2.735 ACRES
#9836
(LITTLE KERN LANE)
142
141,850 SF
#9206
143
98,949 SF
#9814
144
271,202 SF
#9825
139
550,973 SF
#9816
141
114,343 SF
#9632
140
122,915 SF
#9641
138
494,726 SF
COS
12.250 ACRES
COS
13.889 ACRES
#9424
137
235,455 SF
#9400
135
314,827 SF
#9414
136
183,672 SF
100' BUFFER
50' CLASS C BUFFER
100' COS BUFFER
100+1 STORMWATER ELEVATION LINE SURVEYED LOCATION
REF. DWG. NO. 511-31 and 105-164
325' DUKE POWER CO. R/W
PER PLAT 32-33
REF. DWG. NO. 504-05A and 102-158
FEMA FIRM PANELS 370158 0222E, 0221E & 0242E DATED 2-4-2004.
FEMA FIRM PANELS 370158 0222E, 0221E & 0242E DATED 2-4-2004.
FEMA FIRM PANELS 370158 0222E, 0221E & 0242E DATED 2-4-2004.
Lake Wylie
Lake Wylie
FILED FOR REGISTRATION
JUL 24 2007
10:41AM
SEE SHEET 1 OF 4 FOR NOTES AND LANDMARK TIE
LOCATION MAP - NOT TO SCALE
LAKE WYLIE
LAKE WYLIE
GRAPHIC SCALE
(IN FEET)
1 inch = 100 ft.
SHEET TITLE
RECORD PLAT
89.739 ACRES THIS SHEET
266.278 ACRES TOTAL
PROJECT THE SANCTUARY PHASE 4B
MAP 2 SHEET 2
STEELE CREEK TWSP., MECK. CO., NC
OWNER: THE SANCTUARY AT LAKE WYLIE, LLC
PROJECT NO.
SCALE 1"=100'
DATE 05/15/07
DRAWN BY YWH
CHECKED BY JCW
DRAWING NO.
YARBROUGH-WILLIAMS & HOULE, INC.
Planning • Surveying • Engineering
SHEET 2 of 4

GOULDS PUMPS



Submersible Effluent Pump

MODEL 3885

WE Series

PROSURANCE AVAILABLE FOR RESIDENTIAL APPLICATIONS.

APPLICATIONS

Specifically designed for the following uses:

- Homes
- Farms
- Trailer courts
- Motels
- Schools
- Hospitals
- Industry
- Effluent systems

SPECIFICATIONS

Pump

- Solids handling capabilities: ¾" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 140 GPM.
- Total heads: up to 128 feet TDH.
- Temperature: 104°F (40°C) continuous 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

FEATURES

■ **Impeller:** Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.

■ **Casing:** Cast iron volute type for maximum efficiency. 2" NPT discharge.

■ **Mechanical Seal: SILICON CARBIDE VS. SILICON CARBIDE** sealing faces. Stainless steel metal parts, BUNA-N elastomers.

■ **Shaft:** Corrosion-resistant, stainless steel. Threaded design. Locknut on all models to guard against component damage on accidental reverse rotation.

■ **Fasteners:** 300 series stainless steel.

■ Capable of running dry without damage to components.

■ Designed for continuous operation when fully submerged.

MOTORS

■ Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.

■ Class B insulation on ⅓-1½ HP models.

■ Class F insulation on 2 HP models.

Single phase (60 Hz):

- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.
- SJTOW or STOW severe duty oil and water resistant power cords.
- ⅓ and ½ HP models have NEMA three prong grounding plugs.
- ¾ HP and larger units have bare lead cord ends.

Three phase (60 Hz):

- Class 10 overload protection must be provided in separately ordered starter unit.
- STOW power cords all have bare lead cord ends.

■ **Designed for Continuous Operation:** Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.

■ **Bearings:** Upper and lower heavy duty ball bearing construction.

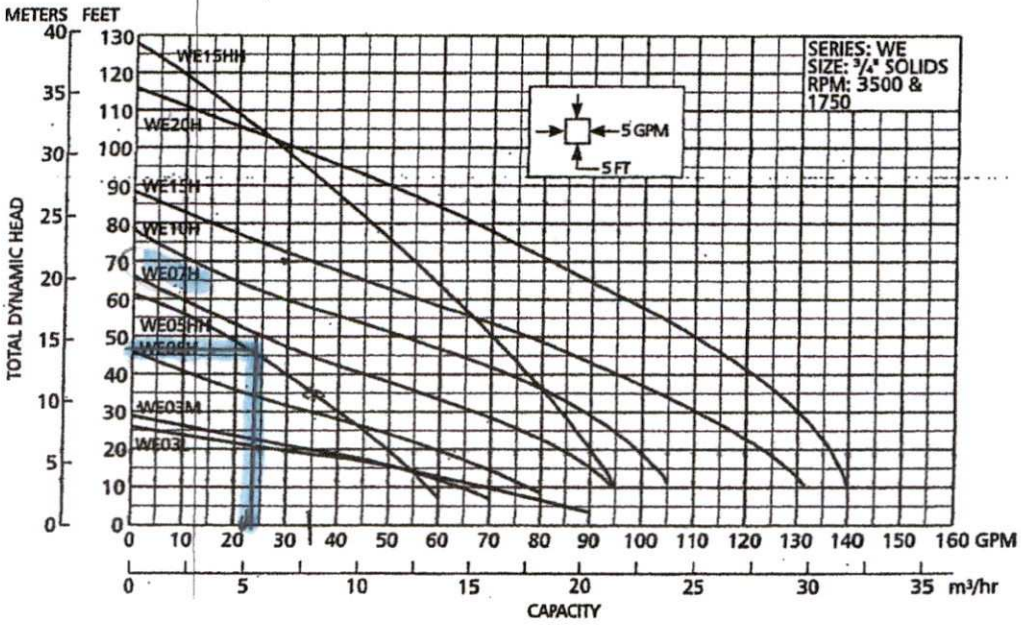
■ **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.

■ **O-ring:** Assures positive sealing against contaminants and oil leakage.

AGENCY LISTINGS

Tested to UL 778 and CSA 22.2 108 Standards By Canadian Standards Association File #LR38549

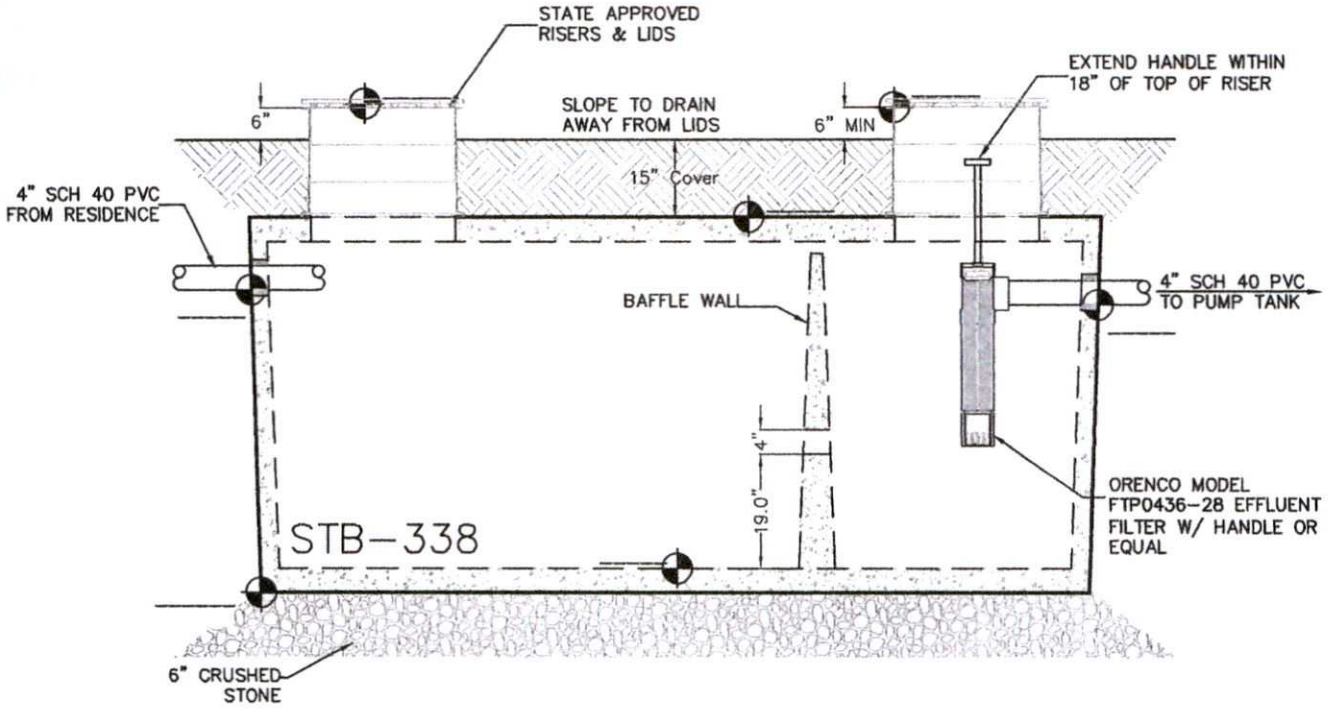
Goulds Pumps is ISO 9001 Registered.



Goulds Pumps

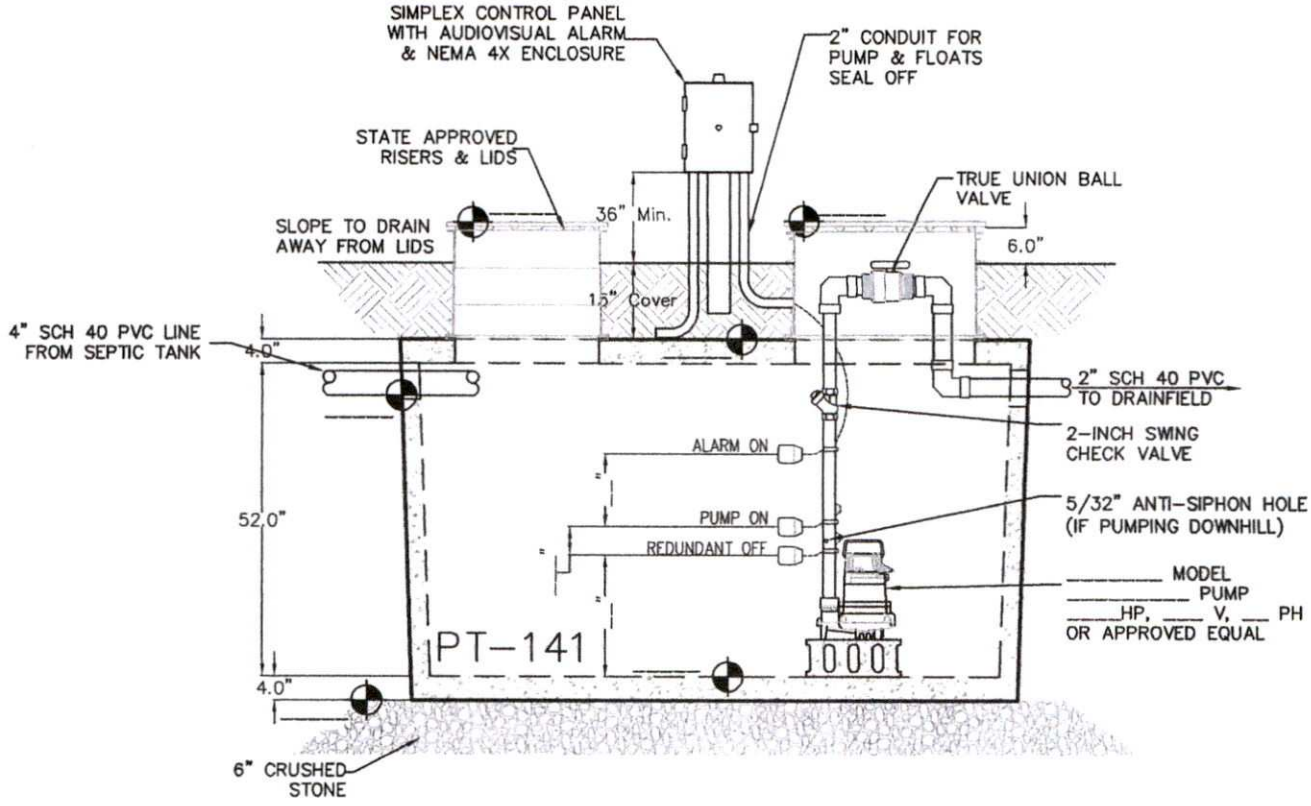
ITT Industries

© 2003 Goulds Pumps
Effective July, 2003



ELEVATION VIEW – 1,500 GAL SEPTIC TANK

N.T.S. STB-338



ELEVATION VIEW – 1,500 GAL PUMP TANK

N.T.S. PT-141

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

Sheet: 1 of 2
Property ID: PO 199-352-14
Lot #: 137
File #: 6944B
AppID: 1901

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: The Sanctuary of Lake Wylie
Address: 11104 Limehurst Place, Charlotte, N. C. 28278
Proposed Facility: Residence Design Flow (.1949): 600gpd
Location of Site: ~~Nine Eagles Lane~~ Lake Kern Ln.
Water Supply: [x] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [x] Sewage [ ] Industrial Process [ ] Mixed

Applicant: S & ME- P. Penninger
Date Evaluated: 5/22/07
Property Size: .5a inv.
Property Recorded:

PROFILE #	1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY 1941 Structure/ Texture	SOIL MORPHOLOGY 1941 Consistence Mineralogy	b PROFILE FACTORS 1942 Soil Wetness/ Color	1943 Soil Depth (IN.)	1956 Sapro Class	1944 Restr Horiz	Profile Class & LTAR
1	LS, 15	0-2	GR/CL	FR/SEXP/SS/SP	>52" TO SOIL WETNESS	52+	N/A	NONE	PS, IV .3GPD/FT^2
		2-29"	ABK/SBK/C	FI/SEXP/S/P					
		29-52	SBK/ABK/CL	FR/SEXP/SS/SP					
2	"	0-12	GR/SCL	"	>54" TO SOIL WETNESS	54+	"	"	"
		12-39	SBK/C	FI/SEXP/S/P					
		39-54	SBK/CL	FR/SEXP/SS/SP					
3	LS, 29	0-18	GR/SCL	"	>48" TO SOIL WETNESS	48+	"	"	"
		18-36	SBK/C	FI/SEXP/S/P					
		36-48	SBK/CL	FR/SEXP/SS/SP					
					SITE LTAR .3GPD/FT^2				

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	IIIg	IVa
Site LTAR	0.3	0.3

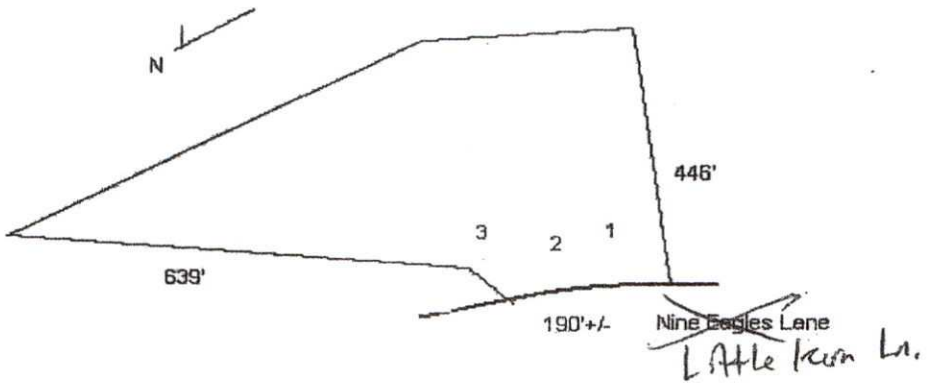
Other Factors (.1946):
Soil Evaluation By: W. R. Marlin, LSS, 5/22/2007,
Others Present: T. Beauregard, P. Penninger
Site Classification (.1948):
Site Evaluation By: Phil Walker REHS
Others Present: Paul Penninger

COMMENTS:
100% repair

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		M-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				
FP-Flood Plain		CL-Clay Loam		
		SCL-Sandy Clay Loam		
	IV	SC-Sandy Clay	0.4 - 0.1	
		SIC-Silty Clay		
		C-Clay		

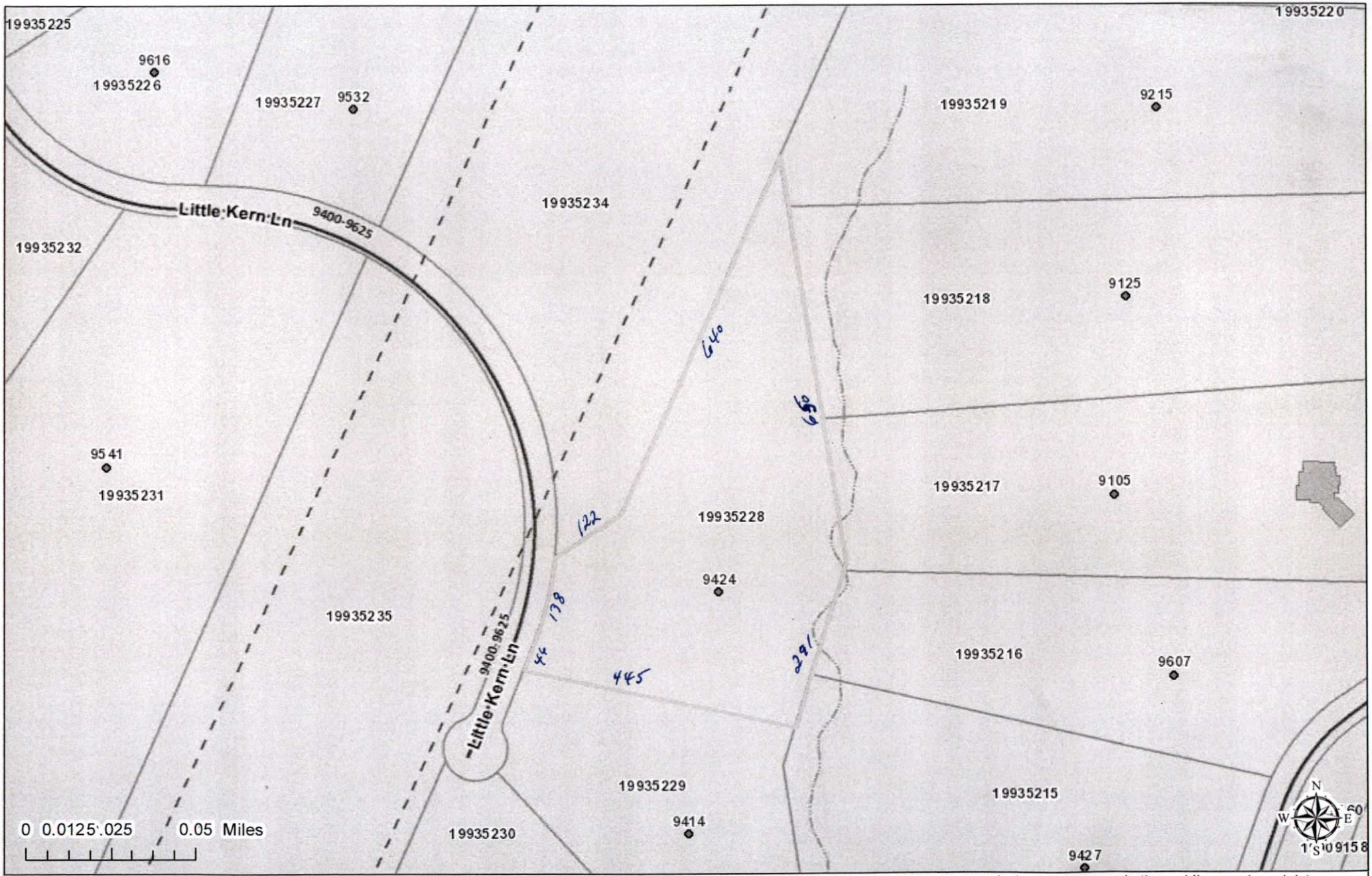
Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	NS-Non-Sticky	SEXP-Slightly Expansive
FR-Friable	SS-Slightly Sticky	EXP-Expansive
FI-Firm	S-Sticky	
VFI-Very Firm	VS-Very Sticky	
EFI-Extremely Firm	NP-Non-Plastic	
	SP-Slightly Plastic	
	P-Plastic	
	VP-Very Plastic	

Sketch of Soil Evaluation Locations



Polaris 3G Map – Mecklenburg County, North Carolina

Date Printed: 4/11/2016 11:53:49 AM



This map or report is prepared for the inventory of real property within Mecklenburg County and is compiled from recorded deeds, plats, tax maps, surveys, planimetric maps, and other public records and data. Users of this map or report are hereby notified that the aforementioned public primary information sources should be consulted for verification. Mecklenburg County and its mapping contractors assume no legal responsibility for the information contained herein.



Print
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Parcel Information

Parcel ID	Account	Parent	Previous
19935228	NON-NC CORP		

Owner(s)

Owner Name	Mailing Address	City/State
SANCTUARY AT LAKE WYLIE LLC	227 W TRADE ST STE 1000	CHARLOTTE NC 28202
C/O PROPERTY TAX DEPT	227 W TRADE ST STE 1000	CHARLOTTE NC 28202

Legal Information

Legal	Municipality	Date Annexed	Special District	Fire District	Acreage
L137 M48-593	MECKLENBURG COUNTY-UNINCORPORATED		FIRE SERVICE A	STEELE CREEK #2	5.405

Total Parcel Assessment

Building	Land	Features	Total
0	85700	0	85700

Exemptions

Exemption	Year Approved	Review Date	Amount

Sales Information

Sale	Price	Stamps	Qualify	VI	Type	Legal Ref.	Grantor
Nov 26 2003			UNDER REVIEW	IMP	MULT LISTING	16493-360	

Land Use

Use	Units	Type	Neighborhood	Assessment
R100	5.01	AC	T916	85700

Building Information

Bldg	Description	Type	Year	Property Location
				9424 LITTLE KERN LN UNINC

Bldg	Story	Units	Total SqFt	Heated SqFt	Foundation	Ext. Wall	Grade	Value

Bldg	Heat	Fuel	Fire Place	AC	Fixtures	Bedrooms	Full Baths	3/4 Baths	1/2 Baths

Sub Area

Bldg	Description	Size

Depreciation

Bldg	Physical	Functional	Economic	Special	Override

Special Features & Yard Items

Bldg	Built	Type	Quantity	Units	Value

Notes

Tax Year	Notes	Note Date
2011	Informal Review Request Received	04/15/2011

Value Changes

Notice Date	Tax Year	Reason	Changed To	Deferred
Feb 8 2011	2011	Countywide Revaluation	342600	0
Feb 8 2011	2011	Countywide Revaluation	342600	0
Jul 23 2008	2008	Equalization of Value	252300	0
Jul 23 2008	2008	Equalization of Value	252300	0
May 23 2008	2008	Division of Land and/or New Parcel	280300	0
May 23 2008	2008	Division of Real Estate and/or New Parce	280300	0