

10220 WILDLIFE RD

19960116

1/8/2008

duponbj

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

Change in plot Plan

GWS – RES. APP 12/04

SEPTIC FEE: 100.00
DATE: 9/26/05
CRT [ ] B312660

PERMIT APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT / CONSTRUCTION AUTHORIZATION FOR ON-SITE WASTEWATER SYSTEM NEW WELL INSTALLATION OR REPAIR OF EXISTING WELL MECKLENBURG COUNTY GROUNDWATER & WASTEWATER SERVICES

FILE # 5699B

WELL FEE:
DATE:
CRT [ ]

SEPTIC / TYPE APPLICATION: ☐ NONE ☑ NEW SYSTEM EXISTING SYSTEM : ☐ EXPANSION/ALTERATION ☐ REPAIR

WELL / TYPE APPLICATION: ☑ NONE ☐ NEW WELL ☐ MAJOR REPAIR ☐ ABANDONMENT

JOB LOCATION INFORMATION:

TAX/PARCEL #: 199-601-16
STREET ADDRESS: 10220 Wildlife Road
CITY: Charlotte
STATE: NC ZIP: 29278
SUBDIVISION OR MOBILE HOME PARK NAME: Sanctuary
LOT #: 33
TOWNSHIP:

☑ 0-MECKLENBURG ☐ 4-PINEVILLE
☐ 1-CHARLOTTE ☐ 5-MATTHEWS
☐ 2-DAVIDSON ☐ 6-HUNTERSVILLE
☐ 3-CORNELIUS ☐ 7-MINT HILL

BUILDING INFORMATION:

TYPE OF BUILDING:

☐ SINGLE MOBILE HOME (S) ☐ MODULAR HOME (M)
☐ DOUBLE WIDE (D) ☐ MULTIPLE FAMILY (U)
☑ HOUSE (H) ☐ OTHER
HEATED SQUARE FOOTAGE: 5000
NUMBER OF BEDROOMS: 4
NUMBER OF OCCUPANTS:

FOUNDATION FOR RESIDENCE:

☐ CONCRETE SLAB ☐ BASEMENT WITH PLUMBING
☑ CRAWLSPACE ☐ BASEMENT WITH NO PLUMBING

IF PLANNING TO EXPAND/ALTER THE EXISTING SYSTEM INDICATE THE FOLLOWING CHANGES:

NUMBER OF BEDROOMS TO BE ADDED: NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE:
WILL THERE BE A HOME BUSINESS IN THE RESIDENCE? ☐ YES ☑ NO TYPE:

WATER SUPPLY:

☐ MUNICIPAL (M) ☑ PUBLIC (C) ☐ PRIVATE WELL (P) ☐ SHARED WELL (S) ☐ OTHER 'SPRINGS' (O)

~~PROPOSED USE OF WELL:~~ ☐ N/A ☐ IRRIGATION ☐ POTABLE ☐ GEOTHERMAL ☐ OTHER

ARE ANY OF THE FOLLOWING LOCATED ON THE PROPERTY? IF SO, PLEASE SHOW LOCATION ON SITE PLAN/PLAT.

BURIED CABLES, LANDFILLS, STUMPHOLES	☐ YES	☑ NO	WELLS, SPRINGS, OR WATER LINES	☐ YES	☑ NO
EXISTING WASTEWATER SYSTEMS	☐ YES	☑ NO	DESIGNATED WETLANDS	☐ YES	☑ NO
EASEMENTS OR RIGHT-OF-WAYS	☐ YES	☐ NO	GRADING/SOIL REMOVAL PERFORMED	☐ YES	☑ NO

PROPERTY OWNER:

NAME: Simonin Builders
ADDRESS: 1910 South Blvd
CITY: Charlotte
STATE: NC ZIP: 29203
HOME PHONE: 704 358 9940 WORK PHONE: 704 358 9940
MOBILE PHONE: FAX: 704 358 9970

LOCAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME:
ADDRESS:
CITY:
STATE: ZIP:
HOME PHONE: WORK PHONE:
MOBILE PHONE: FAX:

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED?

WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?

*An Improvement Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

Owner's/Agent's Signature 9/26/05 Date

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENT & NATURAL RESOURCES DIVISION
OF ENVIRONMENTAL HEALTH ON-SITE
WASTEWATER SECTION

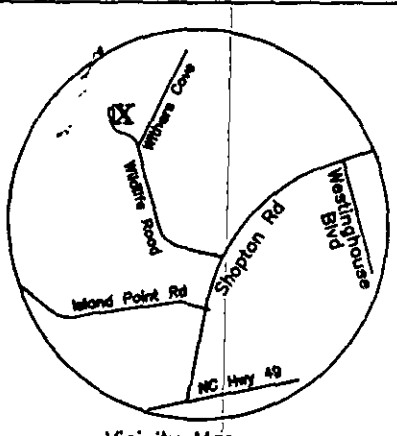
*A Well Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

Owner's/Agent's Signature Date

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



THIS SURVEY IS CERTIFIED TO ONLY THE PERSONS OR ENTITIES SHOWN IN THE TITLE BLOCK BELOW:
THIS IS TO CERTIFY THAT THIS SURVEY IS BASED UPON MY BEST KNOWLEDGE, INFORMATION, AND BELIEF.
THIS SURVEY DOES NOT REFLECT A COMPLETE TITLE EXAMINATION OR UTILITIES. PRECISION IS GREATER THAN 1:10,000.



Vicinity Map

LEGEND
ch. chord
L,R curve length & radius
s.f. square feet (by coordinates)
I.PIN iron survey stake
conc. concrete
a/c air conditioner
MB, DB record map and deed references

9-16-2005

NORTH CAROLINA PROFESSIONAL SEAL L-3098 LAND SURVEYOR ANDREW G ZOUTEWELLE

LOT 35

S18d48'57"E 49.65'
S8d10'00"E-161.09'
S11d32'38"E 29.11'
I.Pin found
I.Pin found
I.Pin found
I.Pin found

10' Utility Easement (D.B. 17763 Pg. 774)

tree save area and protected corridor

N 75d5'21" E - 491.83'

LOT 32

LOT 33
Area=147,120 s.f.
(3.38 acres)
FPE=573.0'

S74d18'22"W-692.75'

LOT 34

40' sideyard

Man

TANK

Garage foundation
16.0' 24.0' 0.7 24.0' 16.0' 22.0'

Brick foundation #10220

85.3'

33.4

10' Utility Easement (D.B. 17763 Pg. 774)
20' sideyard

I.Pin found
N 13d21'19" W
123.81' tie
I.Pin found
102.80' tie
N 71d5'26" W

R=117.50'
L=57.06'
N46d15'37"E
N32d20'57"E
56.50' ch.
37.28'
N28d25'42"E
76.56' ch.
R=125.0'
L=77.81'
N10d35'47"E
56.55'
R=245.0'
L=109.16'
N23d21'39"E
108.26' ch.
46.5

20' setback

REAR

Wildlife Road
50' public R/W

common open space per record plat (preliminary)

I.Pin found

Wildlife Road to Shopton Rd. West

file # 5689B
100.00
Change in plot plan
$312.00 JKA

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PHYSICAL SURVEY OF
LOT 33 THE SANCTUARY PHASE 2
CHARLOTTE, MECKLENBURG COUNTY, N.C.
for SIMONINI BUILDERS, Inc.
Scale 1" = 60'
Date: July 6, 2005

ANDREW G. ZOUTEWELLE, L-3098
1418 East Fifth Street Charlotte, NC 28204

0' 50' 100' 150' 200' 250'

SANCT33-QN (EPTTONY)

GENERAL NOTES:

1. Source of title is recorded in Deed Book 19048 Page 421. This lot is known as Lot 33 of The Sanctuary as recorded in Map Book 43 Pages 705 and 707. See restrictions recorded in Deed Book 17763 Page 774. Additional setback information shown taken from developer's site plan.
2. Zoning of this lot is MX-1. See Rezoning Petition #2003-024.
3. Flood Protection Elevation for this lot is 573.0'.
4. This survey does not reflect utilities. Contact NC ONECALL Utility Location Service at 1-800-632-4949 before digging.
5. This lot to be served by private septic system.
6. Maximum impervious cover for this lot is 12%.
7. Total denuded area allowed is 15%.
8. Buildable area for this parcel is approximately 67,220 square feet, per Sanctuary site plan.

CERTIFICATE OF COMPLETION/OPERATION PERMIT

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON ST., SUITE 211
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: 56898 DATE: 1-5-06
TC: 17-601-16 ☐ L ☐ CRT
SERIAL 19904

Name of Owner Simonini Builders Juris.: Mecklenburg Co.

Address of Property 10220 Wildlife Rd.

Inspection Data:

Tank Material PCC

Total Length of Drainfield 267'

Number of Lines 5 @ 70-82'

Cover Depth 12"

Water Supply Source Municipla

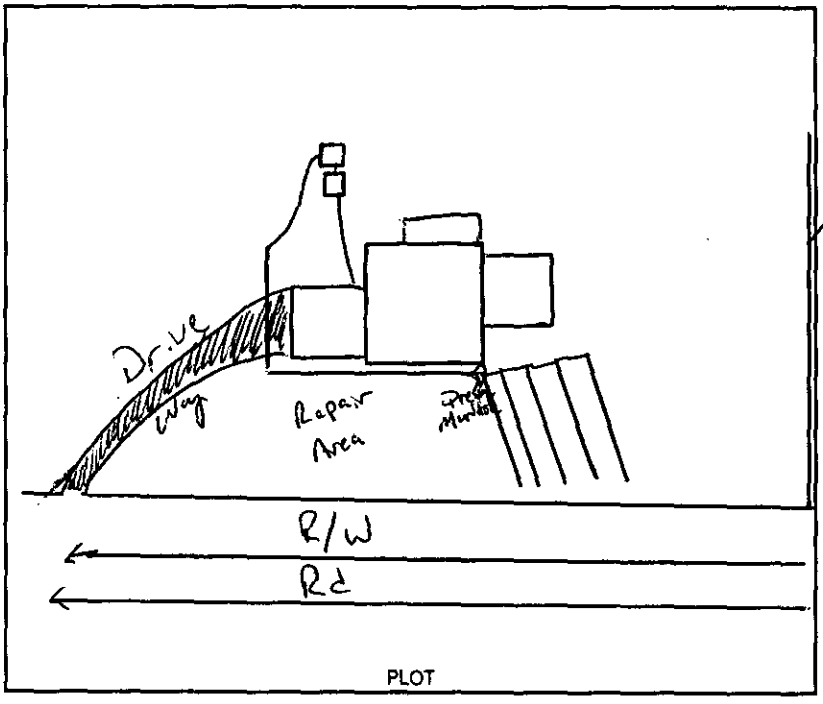
Distance to Water Source N/A

Excavation Inspected 1/6/05

Tank(s) Inspected 1/6/05

Wash Line Inspected N/A

High Water Alarm Inspected



Design Low Pressure, PPBPS, PressureBell, 150' of 2" Sch 40 supply. CTR# Stanley Septic

The undersigned has inspected the Septic Tank System described above, and certifies it has been

☑ installed or constructed ☐ altered or repaired
☑ in accordance with the permit issued ☐ as detailed in the plot above

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. This issuance of this

☐ Certificate of Completion ☑ 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. 1990 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/revocation of this permit.

COMMENTS: Checked [redacted] Pump out set Manifold and head pressure on 4-28-06

No Installation Approval Issued 5/1/06

Mark J. Peters ES/RS
Environmental Health Specialist

Mecklenburg County services are available without regard to ethnic origin, sex, or disability.

FEE: 300.00
DATE: 5/3/06 JKA
B 39260

AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION

PERMIT NUMBER: 5689B
PARCEL NUMBER: 199-~~374~~-03
60|-16

JOB LOCATION ADDRESS: 10220 Wildlife Rd.
PROPERTY OWNER: The Sanctuary @ Lake Wylie
BUILDING CONTRACTOR: Simonini Builders
SUBDIVISION NAME: The Sanctuary @ Lake Wylie
AUTHORIZATION ISSUED BY: David Cornelius, RS DATE: 07/29/05

DENR/DEH AUTHORIZED AGENT 7/29/05

AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 5689B, 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. AN *INSTALLATION, CONSTRUCTION, ALTERATION AND/OR REPAIR APPROVAL* MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A REGISTERED SEPTIC TANK CONTRACTOR WITH THE MECKLENBURG COUNTY HEALTH DEPARTMENT.

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 P ERIOD E QUAL TO THE VALIDITY OF THE IMPROVEMENT PERMIT, NOT TO EXCEED 60 MONTHS.

5. OTHER CONDITIONS:
   Install According to plans on file submitted by Toney Jacobs and Associates
   Original plan modified - Driveway relocation approved, # of bedrooms changed to 5.
   Maintenance agreement with a certified operator must be on file before CO release.
   Lot #33, phase II.

601-16

CONDITIONS OF IMPROVEMENT PERMIT

Permit Number: **5689B**

Tax Number: **199-~~371-03~~**

- The IMPROVEMNET 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.

Basement: ☒ Yes ☐ No ☐ Partial Basement

Primary Wastewater System

Type: ☐ I ☐ II ☐ III ☒ IV ☐ V ☐ VI

☐ Conventional
☒ Prefabricated, permeable block panel system
☐ Shallow Placed Conventional

☒ Low Pressure Pipe
☐ Large Diameter Pipe
☐ Fill
☐ Other

☐ Innovative or Experimental:

0.3 Long-term acceptance rate (GPD/ft^2)	480 Max gallons/day wastewater flow	800 Absorption Area (ft^2)	8 Trench spacing (min. on centers) (ft)
Serviced by private well: ☐ Yes ☒ No	1500 Gallon septic tank	267 Total trench length (ft)	24 Maximum trench depth (in) (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions.)
4 Bedrooms in residence	1500 Gallon pump tank	na Depth of stone (in)	

Any surface water present: **No** Type: Minimum separation distance (ft):

Additional conditions: **Install according to plans on file submitted by Toney Jacobs and Associates. Lot #33. Maintenance Agreement with certified operator must be on file before CO release. See change in plot plan in file. Number of bedrooms changed from original plan - 5 to 4. Driveway moved.**

Repair Area System

Type: ☐ I ☐ II ☐ III ☒ IV ☐ V ☐ VI

☐ Conventional
☒ Prefabricated, permeable block panel system
☐ Shallow Placed Conventional

☒ Low Pressure Pipe
☐ Large Diameter Pipe
☐ Fill
☐ Other

☐ Innovative or Experimental:

800 Absorption Area (ft^2) 267 Total trench length (ft)	na Depth of stone (in)	8 Trench spacing (min. on centers) (ft)	24 Maximum trench depth (in)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HELTH DEPARTMENT, certifies that the Department has approved the Request for the Job Location contained in this document. *The approval is granted in accordance with the provisions of Laws and Rules For Sewage,* Treatment and Disposal in effect at the time of issuance of the permit and is subject to the following provisions:

*** No work shall be conducted on the septic tank system until an Installation, Construction, *Alteration and/or Repair Approval is granted* by this Department.

*** This Improvement permit is transferable.

DENR Authorized Agent — Date 7/29/05

Owner/Agent Signature — Date

MECKLENBURG COUNTY
HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR.
SUITE 211
700 N. TRYON ST.
CHARLOTTE, NC 28202
(704) 336-5103

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL, HEALTH, AND
NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	07/27/05	**Amount:**	100.00
Receipt #:	36066	**Tendered:**	0.00
Check / Auth #:	CHARGE	**Returned:**	0.00
Received By:	CRAIGGY		

Account Information

Account #: B31260
Contractor: SIMONINI BLDRS INC
Attn:
Address: 1910 SOUTH BLVD SUITE 200
Address:
City/State/Zip: CHARLOTTE, NC 28203

Item	Description	Permit#	Quantity	Unit Price	Total Price
0704	Change in Plot Plan 10220 Wildlife Road/File 5689B		1	100.00	100.00

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

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
27,019.65	13,819.06				

fd $100 on rec B3126 Chg in plot plan

A. G. Zoutewelle Surveyors

1418 East Fifth Street
Charlotte, N.C. 28204
Phone: 704.372.9444
Fax: 704.372.9555
Email: zoutewelle@carolina.rr.com

Date: 7-27-05 a.m. From: Tony Davis

Send to: David Cornelius Company: _____

Fax No. 704-336-6694 Total Pages (incl. cover) 4

Reference: Lot 33 Sanctuary / 10220 Wildlife Road
— Application for change of Plot Plan —

X Urgent ___ Reply ASAP ___ Please comment ___ For review X For your information

Comments:

Per request of Erick West of Simorini Builders, please see the attached sketches regarding Lot 33.

Erick's number: 704-309-1449.

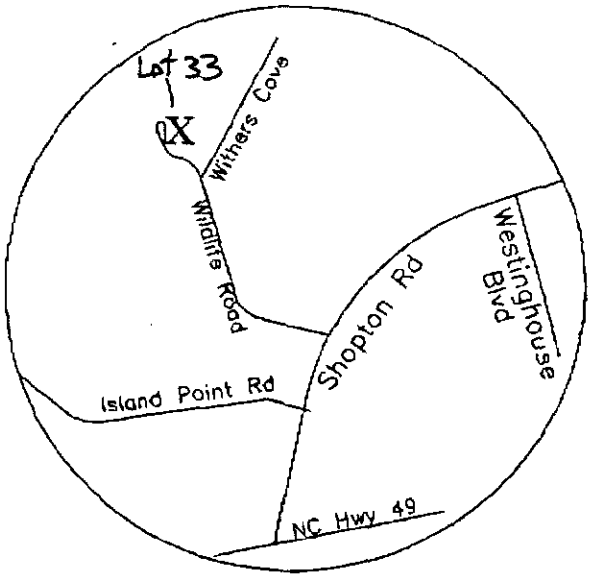
Thanks,

Tony

Ext. 15

faxcvrsh (10-03)

Vicinity Map



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PRELIMINARY SITE PLAN

LOT 33 THE SANCTUARY PHASE 2

CHARLOTTE, MECKLENBURG COUNTY, N.C.

for SIMONINI BUILDERS

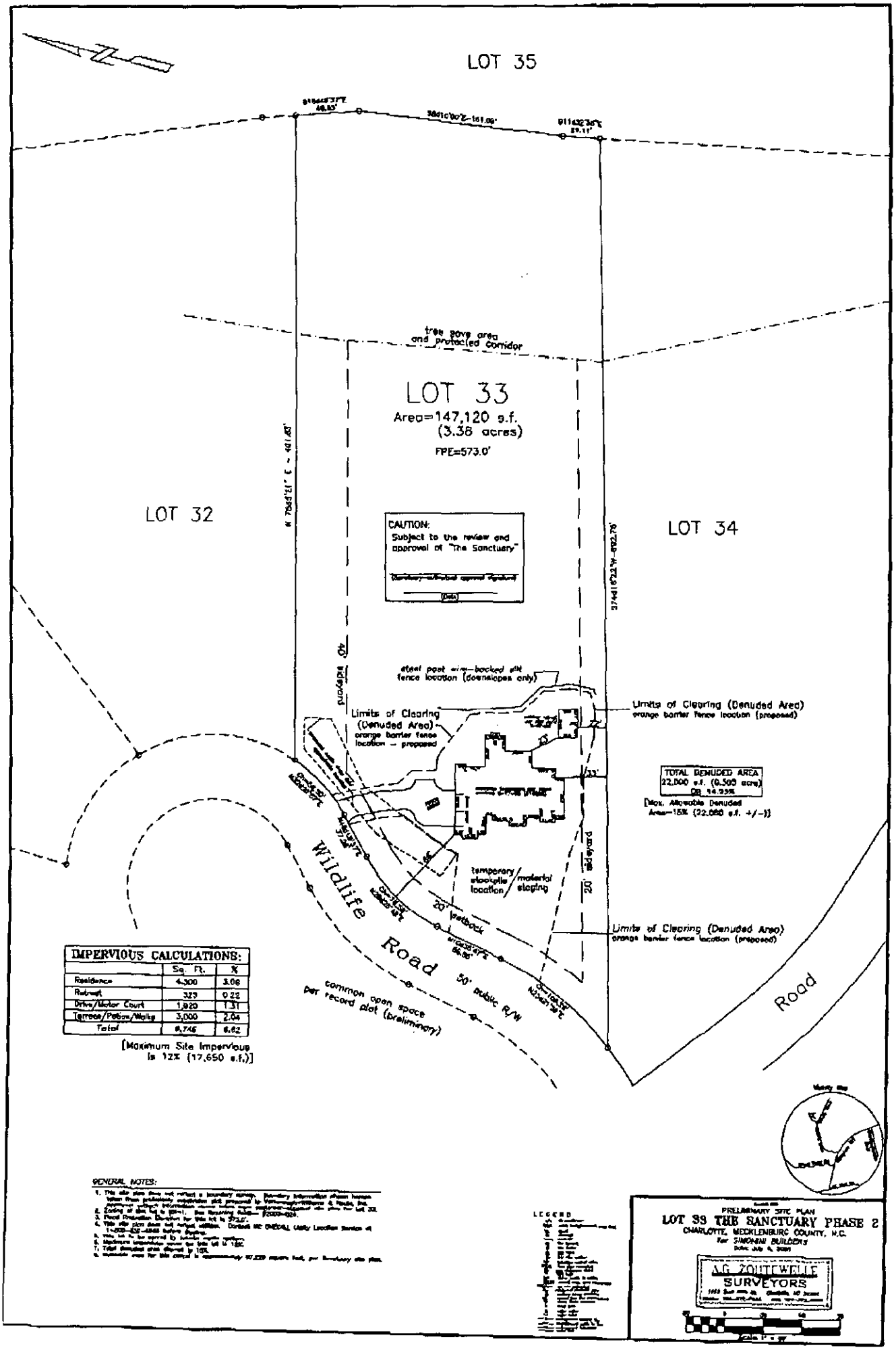
Date: July 6, 2005

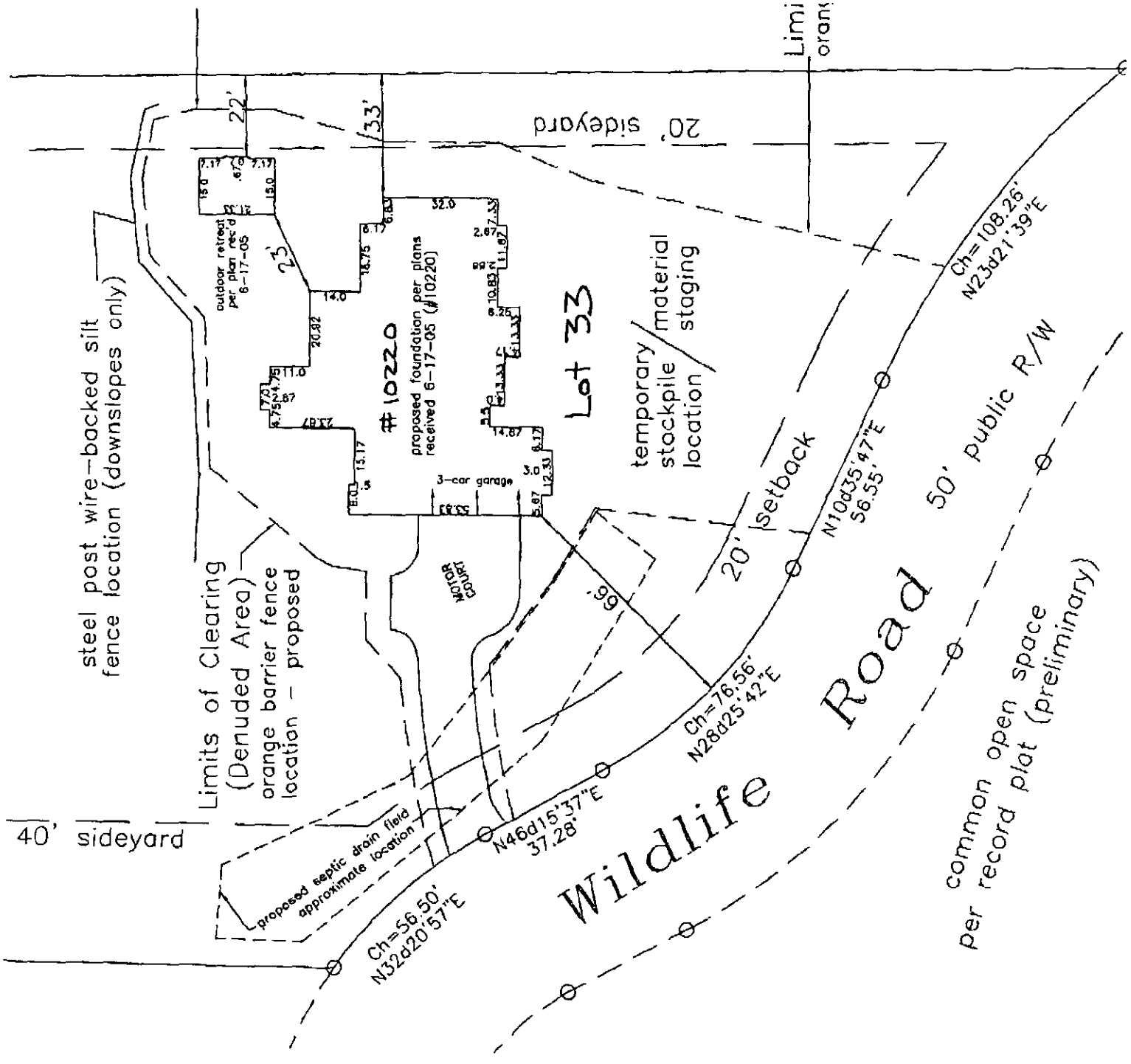
A.G. ZOUTEWELLE
SURVEYORS
1418 East Fifth St. Charlotte, NC 28204
Phone: 704-372-9444 FAX: 704-372-9555

30 0 30 60 90

Scale: 1" = 30'

07/27/2005 11:19 7043729555 AGZOUTEWELLE PAGE 02/04


LOT 35
LOT 33
Area=147,120 s.f.
(3.38 acres)
FPE=573.0'
LOT 32
LOT 34
tree save area and protected corridor
CAUTION:
Subject to the review and approval of "The Sanctuary"
steel post wire-backed silt fence location (downslopes only)
Limits of Clearing (Denuded Area) orange barrier fence location - proposed
Limits of Clearing (Denuded Area) orange barrier fence location (proposed)
TOTAL DENUDED AREA
22,000 s.f. (0.505 acre)
OR 14.95%
[Max. Allowable Denuded Area=15% (22,050 s.f. +/-)]
temporary stockpile location / material staging
20' setback
Limits of Clearing (Denuded Area) orange barrier fence location (proposed)
Wildlife Road
50' public R/W
common open space per record plat (preliminary)
Road
IMPERVIOUS CALCULATIONS:
Sq. Ft. | %
Residence 4,300 3.08
Retreat 323 0.22
Drive/Motor Court 1,920 1.31
Terrace/Patios/Walks 3,000 2.04
Total 9,745 6.62
[Maximum Site Impervious is 12% (17,650 s.f.)]
GENERAL NOTES:
LEGEND
PRELIMINARY SITE PLAN
LOT 33 THE SANCTUARY PHASE 2
CHARLOTTE, MECKLENBURG COUNTY, N.C.
for SIMONINI BUILDERS
AG ZOUTEWELLE
SURVEYORS


Limi
oran
20' sideyard
22'
33'
25'
outdoor retreat per plan rec'd 6-17-05
#10220
proposed foundation per plans received 6-17-05 (#10220)
Lot 33
temporary / material stockpile / staging location
3-car garage
MOTOR COURT
20' setback
50' public R/W
Ch=108.26'
N23d21'39"E
N10d35'47"E
56.55'
Ch=76.56'
N28d25'42"E
N46d15'37"E
37.28'
Ch=56.50'
N32d20'57"E
Wildlife Road
common open space per record plat (preliminary)
steel post wire-backed silt fence location (downslopes only)
Limits of Clearing (Denuded Area)
orange barrier fence location - proposed
40' sideyard
proposed septic drain field approximate location

TONEY C. JACOBS & ASSOCIATES, INC.

Consulting Soil Scientists

Licensed by the North Carolina Board for Licensing of Soil Scientists
Certified by the American Registry of Certified Professionals in Agronomy, Crops and Soils

168 Broadbill Drive
Mooresville, NC 28117
Phone (704) 663-6905
Fax (704) 662-9845 E-mail jacobs@i-america.net

January 17, 2005

To: Mr. David Cornelius, R.S.
Mecklenburg County Env. Health Dept.

From : Toney C. Jacobs
Paul G. Penninger

RE: Request for an Improvement Permit for lot 33 at The Sanctuary:
MCHD file # 5689B

Crescent Resources is requesting an Improvement Permit for lot **33** at The Sanctuary Subdivision for a **5** bedroom, basement home. Mr. Bill Marlin of the MCHD evaluated the soils on 10-29-04 and determined the septic area is PS at an 0.3 gpd/ft^2 LTAR. Toney C. Jacobs and Associates, Inc. has flagged a LP PPBPS system and repair on the lot, as shown on the attached sketch.

We understand a building permit cannot be issued until your office issues an Authorization to Construct (ATC). The buyer of the lot will apply for the ATC. If the buyer's house pad does not fit in the "building envelope" shown on the Improvement Permit, we understand the proposed system may have to be modified prior to your office issuing the ATC. **No grading shall take place on lot prior to obtaining the ATC from the MCHD.**

Tri-County Wastewater (TCWW) is under contract to supply maintenance services for each septic system installed at The Sanctuary. TCWW will have a list of preferred septic contractors for the subdivision and will also have requirements for the installation of the septic systems that are greater that the state requirements. It will be the responsibility of TCWW to enforce any requirements above state requirements or the conditions on the Improvement Permit or ATC.

Please review the attached system sketch and design specifications for the Improvement Permit. Please call if you have and questions, comments, or corrections.

Design Specifications for Lot 33 at

The Sanctuary, MCHD File # 5689B

System Type:	primary: repair:	LP PPBPS LP PPBPS
Daily design flow:		600 gpd
Septic tank size:		1500 gal. (2 compartments)
Pumping tank size:		1500 gal.
Effluent loading rate:		0.3 gpd/ft^2 for primary and repair
Number and length of laterals: Number of panels required:		1@ 130 ft. , 1@ 110 ft., 1@94 ft., centerfed 30 per 130 ft. line, 25 per 110 ft. line, and 21 per 94 ft. line for a total of 76 panels
Flow rate through the system:		38 gpm (use 3/16 in. holes with 3 ft. head pressure)
Pump requirements:		to be calculated by installer or owners agent when specific house and pump tank location are available
Dosing volume:		*approx. 273 gal. (3.6 gal. per panel) – 2 doses/day at design flow
Depth of water pumped per dose:		calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Check valve:		YES
Siphon break hole:		No

*Note: Before placement of cap block, one panel on each line, near the center of the field should be observed filling to make certain that it does not overflow the top chamber into the air chambers. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.

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

Sheet: 1 of 2
Property ID: PO 199-371-03
Lot #: 33
File #: 5689B
Code: 1

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: The Sanctuary at Lake Wylie
Applicant: Toney Jacobs
Address: 10933 Ballantyne Crossing Ave., Charlotte, N. C. 28277
Date Evaluated: 10/27/2004
Proposed Facility: Residence
Design Flow (.1949): 600gpd
Property Size: .75a. Inv.
Location of Site: Old Camp Trail
Property Recorded:
Water Supply: [x] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [x] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [x] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	OTHER PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	LS, 8	0-2	GR/CL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48+	N/A	NONE	PS, IV
		2-48	SBK/C	FI/SEXP/S/P					.3GPD/FT^2
2	"	0-3	GR/CL	FR/SEXP/SS/SP	"	"	"	"	"
		3-48	SBK/C	FI/SEXP/S/P					
3	"	0-4	GR/CL	FR/SEXP/SS/SP	"	"	"	"	"
		4-48	SBK/C	FI/SEXP/S/P					
4	"	0-3	GR/CL	FR/SEXP/SS/SP	"	"	"	"	"
		3-48	SBK/C	FI/SEXP/S/P					

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)		
Site LTAR	.3GPD/FT^2	.3GPD/FT^2

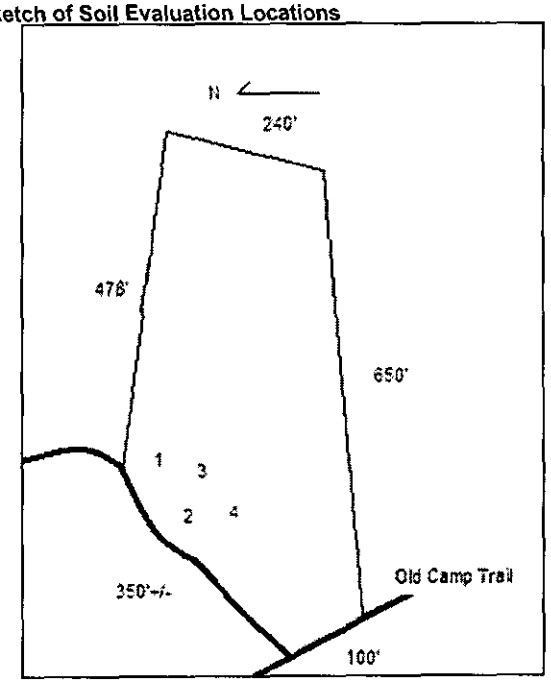
Other Factors (.1946):
Site Classification (.1948): PROVISIONALLY SUITABLE
Evaluated By: W. R. Marlin, LSS, 10/29/2004
Others Present:

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-Food 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		CL-Clay Loam		
FP-Flood Plain		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



DRIVE

N46°15'37"E 147.16'

8" WELL PIPE-TOP

20' PAVEMENT

R=212.06' R=167.50' L=150

642

640

50' PROP. PUBLIC R/W

N46°15'37"E 147.16'

636

634

632

630

628

626

624

622

620

N46°15'37"E 37.28'

R=175.00' L=109.99'

L=77.81' R=125.00' N46°15'37"E 37.28'

R=85.11' R=195.00' N10°35'47"E 56.55'

L=109.16' R=245.00' N10°35'47"E 56.55'

DRIVE

N06°58'49"W 89.69'

00+00

00+69

00+99

63+00

64+00

65+00

2" SCH 40 PVC SUPPLY LINE

2" SCH 40 PVC SUPPLY LINE

2" SCH 40 PVC SUPPLY

Valve

Repair

15'

14'

13'

11'

9'

7'

11'

10'

9'

7'

32

129,047 sq.ft.

2.96 ac.

50 x 100

P.T. ST.

P.T. ST.

P.T. ST.

33

147,126 sq.ft.

3.38 ac.

50 x 100

N75°05'21"E 491.83'

590

620

1" = 50'

1. COMPAC THE MOD

4. ANY DI

5. THERE SEWER AND HORIZONTAL SHALL BE IN SEPARATION

6. THE CONTR BELOW FINISH SERVICE LINE

7. SEPTIC TANK FOR SANITARY SY CONTRACTOR

TONEY C. JACOBS & ASSOCIATES, INC.
Consulting Soil Scientists
Licensed by the North Carolina Board for Licensing of Soil Scientists
Certified by the American Registry of Certified Professionals in Agronomy, Crops and Soils

168 Broadbill Drive
Mooresville, NC 28117
Phone (704) 663-6905
Fax (704) 662-9845 E-mail jacobs@i-america.net

JUL 20 2005

January 17, 2005

To: Mr. David Cornelius, R.S.
Mecklenburg County Env. Health Dept.

From : Toney C. Jacobs
Paul G. Penninger

RE: Request for an Improvement Permit for lot 33 at The Sanctuary:
MCHD file # 5689B

Crescent Resources is requesting an Improvement Permit for lot 33 at The Sanctuary Subdivision for a 5 bedroom, basement home. Mr. Bill Marlin of the MCHD evaluated the soils on 10-29-04 and determined the septic area is PS at an 0.3 gpd/ft^2 LTAR. Toney C. Jacobs and Associates, Inc. has flagged a LP PPBPS system and repair on the lot, as shown on the attached sketch.

We understand a building permit cannot be issued until your office issues an Authorization to Construct (ATC). The buyer of the lot will apply for the ATC. If the buyer's house pad does not fit in the "building envelope" shown on the Improvement Permit, we understand the proposed system may have to be modified prior to your office issuing the ATC. **No grading shall take place on lot prior to obtaining the ATC from the MCHD.**

Tri-County Wastewater (TCWW) is under contract to supply maintenance services for each septic system installed at The Sanctuary. TCWW will have a list of preferred septic contractors for the subdivision and will also have requirements for the installation of the septic systems that are greater that the state requirements. It will be the responsibility of TCWW to enforce any requirements above state requirements or the conditions on the Improvement Permit or ATC.

Please review the attached system sketch and design specifications for the Improvement Permit. Please call if you have and questions, comments, or corrections.

Design Specifications for Lot 33 at

The Sanctuary, MCHD File # 5689B

System Type:	primary: repair:	LP PPBPS LP PPBPS
Daily design flow:		~~600 gpd~~
Septic tank size:		1500 gal. (2 compartments)
Pumping tank size:		1500 gal.
Effluent loading rate:		0.3 gpd/ft^2 for primary and repair
Number and length of laterals: Number of panels required:	280	1@ 130 ft. , 1@ 110 ft., 1@94 ft., centerfed 30 per 130 ft. line, 25 per 110 ft. line, and 21 per 94 ft. line for a total of 76 panels
Flow rate through the system:	4 Bed	38 gpm (use 3/16 in. holes with 3 ft. head pressure)
Pump requirements:		to be calculated by installer or owners agent when specific house and pump tank location are available
Dosing volume:		*approx. 273 gal. (3.6 gal. per panel) – 2 doses/day at design flow
Depth of water pumped per dose:		calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Check valve:		YES
Siphon break hole:		No

*Note: Before placement of cap block, one panel on each line, near the center of the field should be observed filling to make certain that it does not overflow the top chamber into the air chambers. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.

Permit Number: **5689B**

CONDITIONS OF IMPROVEMENT PERMI Lot 33

Tax Number: **199-371-03**

- The *IMPROVEMNET 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.

Basement: ☒ Yes ☐ No ☐ Partial Basement

Primary Wastewater System

Type: ☐ I ☐ II ☒ III ☐ IV ☐ V ☐ VI

☐ Conventional
☒ Prefabricated, permeable block panel system
☐ Shallow Placed Conventional

☒ Low Pressure Pipe
☐ Large Diameter Pipe
☐ Fill
☐ Other

☐ Innovative or Experimental:

0.3 Long-term acceptance rate (GPD/ft^2)	600 Max gallons/day wastewater flow	1000 Absorption Area (ft^2)	8 Trench spacing (min. on centers) (ft)
Serviced by private well: ☐ Yes ☒ No	1500 Gallon septic tank	360 Total trench length (ft)	24 Maximum trench depth (in) (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions.)
4 5 Bedrooms in residence	1500 Gallon pump tank	na Depth of stone (in)	

Any surface water present: No Type: Minimum separation distance (ft):

Additional conditions: **Install according to plans on file submitted by Toney Jacobs and Associates. Lot #33**

Repair Area System

Type: ☐ I ☐ II ☒ III ☐ IV ☐ V ☐ VI

☐ Conventional
☒ Prefabricated, permeable block panel system
☐ Shallow Placed Conventional

☒ Low Pressure Pipe
☐ Large Diameter Pipe
☐ Fill
☐ Other

☐ Innovative or Experimental:

1000 Absorption Area (ft^2) 360 Total trench length (ft)	na Depth of stone (in)	8 Trench spacing (min. on centers) (ft)	24 Maximum trench depth (in)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HELTH DEPARTMENT, certifies that the Department has approved the Request for the Job Location contained in this document. The approval is granted in accordance with the provisions of Laws and Rules For Sewage, Treatment and Disposal in effect at the time of issuance of the permit and is subject to the following provisions:

*** No work shall be conducted on the septic tank system until an Installation, Construction, Alteration and/or Repair Approval is granted by this Department.

*** This Improvement Permit is transferable.

3/15/05
DENR Authorized Agent Date

3/15/05
Owner/Agent Signature Date

MECKLENBURG COUNTY
HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR.
SUITE 211
700 N. TRYON ST.
CHARLOTTE, NC 28202
(704) 336-5103

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL, HEALTH, AND
NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

IWWS-100195

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

Sheet: 1 of 2
Property ID: PO 199-371-03
Lot #: 33
File #: 5689B
Code: 1

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: The Sanctuary at Lake Wylie
Applicant: Toney Jacobs
Address: 10933 Ballantyne Crossing Ave., Charlotte, N. C. 28277
Date Evaluated: 10/27/2004
Proposed Facility: Residence
Design Flow (.1949): 600gpd
Property Size: .75a. Inv.
Location of Site: Old Camp Trail
Property Recorded:
Water Supply: [x] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [x] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [x] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY 1941 Structure/ Texture	1941 Consistence Mineralogy	OTHER PROFILE FACTORS 1942 Soil Wetness/ Color	1943 Soil Depth (IN.)	1956 Sapro Class	1944 Restr Horiz	Profile Class & LTAR
1	LS, 8	0-2	GR/CL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48+	N/A	NONE	PS, IV
		2-48	SBK/C	FI/SEXP/S/P					.3GPD/FT^2
2	"	0-3	GR/CL	FR/SEXP/SS/SP	"	"	"	"	"
		3-48	SBK/C	FI/SEXP/S/P					
3	"	0-4	GR/CL	FR/SEXP/SS/SP	"	"	"	"	"
		4-48	SBK/C	FI/SEXP/S/P					
4	"	0-3	GR/CL	FR/SEXP/SS/SP	"	"	"	"	"
		3-48	SBK/C	FI/SEXP/S/P					

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)		
Site LTAR	.3GPD/FT^2	.3GPD/FT^2

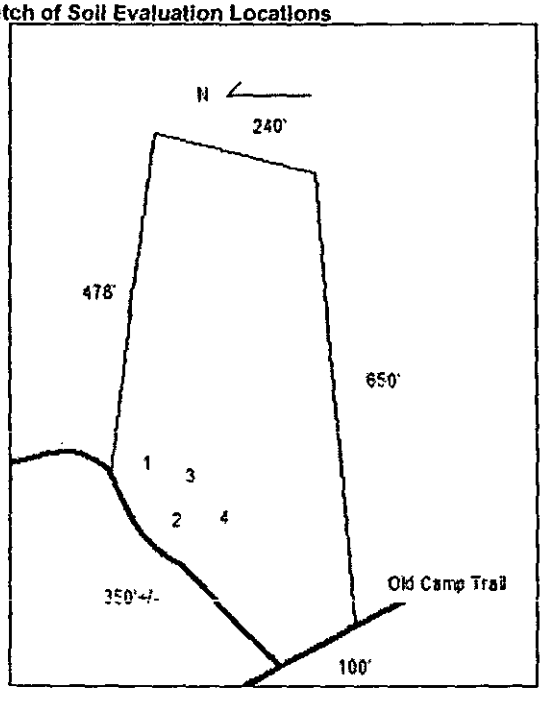
Other Factors (.1946):
Site Classification (.1948): PROVISIONALLY SUITABLE
Evaluated By: W. R. Marlin, LSS, 10/29/2004
Others Present:

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
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T-Terrace		CL-Clay Loam		
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	IV	SC-Sandy Clay	0.4 - 0.1	
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VFR-Very Friable	NS-Non-Sticky	SEXP-Slightly Expansive
FR-Friable	SS-Slightly Sticky	EXP-Expansive
FI-Firm	S-Sticky	
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EFI-Extremely Firm	NP-Non-Plastic	
	SP-Slightly Plastic	
	P-Plastic	
	VP-Very Plastic	

Sketch of Soil Evaluation Locations



144

70

280

360

144

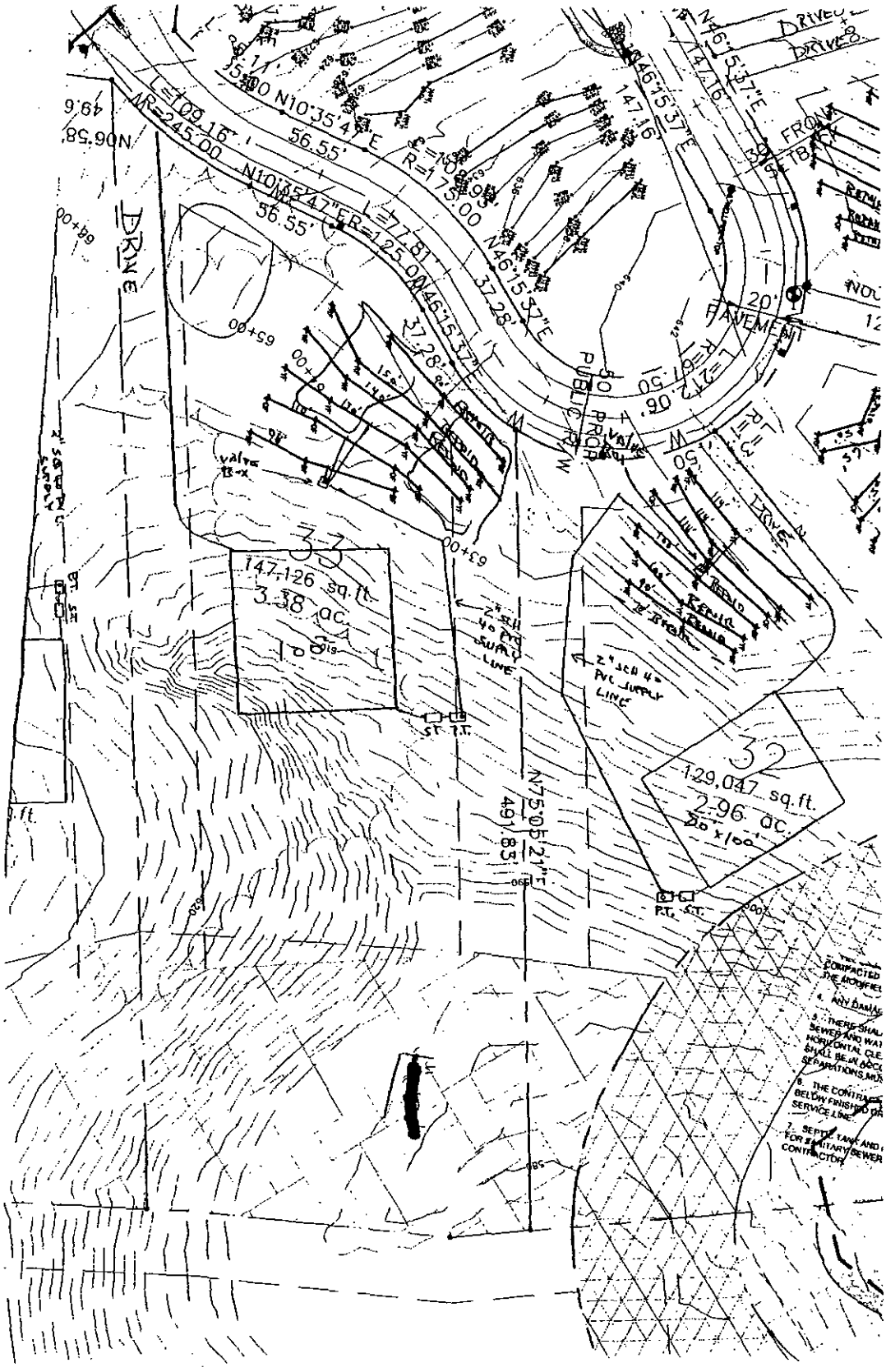
5 | 720

5

22

20

20


DRIVE
L=109.16'
R=245.00
N10°35'47"E
56.55'
L=77.81'
R=175.00
N46°15'37"E
147.16'
37.28'
PUBLIC ROAD R.O.W.
PAVEMENT
33
147,126 sq.ft.
3.38 ac.
32
129,047 sq.ft.
2.96 ac.
2" SCH 40 PVC SUPPLY LINE
N75°01'21"E
491.85'
P.T.
P.C.

1" = 100'

CONDITIONS OF IMPROVEMENT PERMIT

Permit Number: **5689B**

Tax Number: **199-371-03**

- The IMPROVEMNET 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.
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- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

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Primary Wastewater System

Type: ☐ I ☐ II ☒ III ☐ IV ☐ V ☐ VI

☐ Conventional
☒ Prefabricated, permeable block panel system
☐ Shallow Placed Conventional

☒ Low Pressure Pipe
☐ Large Diameter Pipe
☐ Fill
☐ Other

☐ Innovative or Experimental:

0.3 Long-term acceptance rate (GPD/ft^2)	600 Max gallons/day wastewater flow	1000 Absorption Area (ft^2)	8 Trench spacing (min. on centers) (ft)
Serviced by private well: ☐ Yes ☒ No	1500 Gallon septic tank	360 Total trench length (ft)	24 Maximum trench depth (in) (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions.)
5 Bedrooms in residence	1500 Gallon pump tank	na Depth of stone (in)	

Any surface water present: **No** Type: Minimum separation distance (ft):

Additional conditions: **Install according to plans on file submitted by Toney Jacobs and Associates Lot #33**

7/29/05

Repair Area System

Type: ☐ I ☐ II ☒ III ☐ IV ☐ V ☐ VI

☐ Conventional
☒ Prefabricated, permeable block panel system
☐ Shallow Placed Conventional

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☐ Large Diameter Pipe
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☐ Other

☐ Innovative or Experimental:

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The undersigned, an authorized agent of the MECKLENBURG COUNTY HELTH DEPARTMENT, certifies that the Department has approved the Request for the Job Location contained in this document. The approval is granted in accordance with the provisions of Laws and Rules For Sewage, Treatment and Disposal in effect at the time of issuance of the permit and is subject to the following provisions:

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*** This Improvement permit is transferable.

3/15/05

DENR Authorized Agent Date

MECKLENBURG COUNTY
HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR.
SUITE 211
700 N. TRYON ST.
CHARLOTTE, NC 28202
(704) 336-5103

3 15 05

Owner/Agent Signature Date

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL, HEALTH, AND
NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

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

Sheet: 1 of 2 601 - 16
Property ID: PO 199-371-03
Lot #: 33
File #: 5689B
Code: 1

ACS

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: The Sanctuary at Lake Wylie
Applicant: Toney Jacobs
Address: 10933 Ballantyne Crossing Ave., Charlotte, N. C. 28277
Date Evaluated: 10/27/2004
Proposed Facility: Residence
Design Flow (.1949): 600gpd
Property Size: .75a. Inv.
Location of Site: Old Camp Trail
Property Recorded:
Water Supply: [x] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [x] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [x] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	OTHER PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
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3	"	0-4	GR/CL	FR/SEXP/SS/SP	"	"	"	"	"
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4	"	0-3	GR/CL	FR/SEXP/SS/SP	"	"	"	"	"
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Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)		
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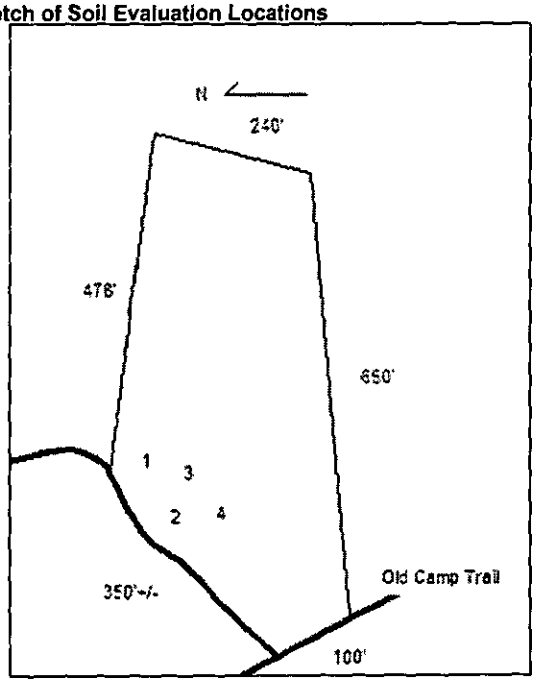
Other Factors (.1946):
Site Classification (.1948): PROVISIONALLY SUITABLE
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Others Present:

COMMENTS:
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EFI-Extremely Firm	NP-Non-Plastic	
	SP-Slightly Plastic	
	P-Plastic	
	VP-Very Plastic	

Sketch of Soil Evaluation Locations



FEE: 200.00 check # 2326

DATE: 8/13/04 SC

APPLICATION FOR IMPROVEMENT PERMIT FOR RESIDENTIAL SITE INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM

[ ] CRT

TYPE APPLICATION: X NEW SYSTEM ___ EXPANSION/ ALTERATION OF EXISTING SYSTEM ___ REPAIR OF EXISTING SYSTEM

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

FILE #: 5689B

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 199-371-03

STREET ADDRESS:

SUBDIVISION OR MOBILE HOME PARK NAME: The Sanctuary at Lake Wylie, LLC

LOT NUMBER: 33

TYPE OF BUILDING (CHECK ONE):

___ SINGLE MOBILE HOME(S)
___ DOUBLE WIDE (D)
X HOUSE (H)
___ MODULAR HOME (M)
___ MULTIPLE FAMILY (U)
___ OTHER (O)

TOWNSHIP (CHECK ONE):

✓ 0 MECKLENBURG
___ 1 CHARLOTTE
___ 2 DAVIDSON
___ 3 CORNELIUS
___ 4 PINEVILLE
___ 5 MATTHEWS
___ 6 HUNTERSVILLE
___ 7 MINT HILL

HEATED SQUARE FOOTAGE:

NUMBER OF BEDROOMS: 5

NUMBER OF OCCUPANTS:

CLOSING DATE _____

FOUNDATION FOR RESIDENCE:

___ WITHOUT BASEMENT
___ ON SLAB
___ CRAWL SPACE
X WITH BASEMENT /PLUMBING
___ WITH BASEMENT /NO PLUMBING

IF EXPANSION/ALTERATION OF EXISTING SYSTEM, DESCRIBE THE PROPOSED BUILDING ADDITION:

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE: ___ YES ✓ NO TYPE: _____

WATER SUPPLY (CHECK ONE):

___ COMMUNITY (C)
___ SHARED WELL (S)
✓ MUNICIPAL (M)
___ OTHER 'SPRINGS' (O)
___ PRIVATE WELL (P)

IF ANY OF THE FOLLOWING ARE LOCATED ON THE PROPERTY, PLEASE SHOW LOCATION ON PLAT:

BURIED CABLES, LANDFILLS, STUMPHOLES ___ YES ✓ NO
EXISTING WASTEWATER SYSTEMS ___ YES ✓ NO
EASTMENTS OR RIGHT-OF-WAYS ✓ YES ___ NO
WELL, SPRINGS OR WATERLINES ___ YES ✓ NO
DESIGNATED WETLANDS ___ YES ✓ NO

PROPERTY OWNER:

NAME: (LAST) The Sanctuary at Lake Wylie, LLC (FIRST) (MI)

ADDRESS: 10933 Ballantyne Crossing Ave

CITY: Charlotte STATE: NC ZIP: 28277

DAYTIME PHONE: 704.544-0201 ext 226

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: (LAST) Jacobs (FIRST) Tonay (MI) C

DAYTIME PHONE: 704 663-6905

m 704 582 9219

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? _____

An Improvement Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes agents of the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

SIGNED: Tonay C Jacobs, CPSS (AGENT) DATE: 8-13-04

MECKLENBURG COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR., SUITE 211, 700 N. TRYON ST., CHARLOTTE, N.C. 28202., (704) 336-5102