Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 4495B WASPS App #: 2999

Primary ES assigned to project: DC

Secondary ES assigned to project:

Project Type: New System ☑ Alteration ☐ Repair ☐ Modified Plot Plan ☐

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: ____ Were sufficient auger borings made?	Yes ☑	No ☐	N/A ☐
.1939(d), .1955, .1956, .1957	LTAR	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) .1937 (f)(g)	Repair area shown 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) 130A-336(a)	Is the System located in the approved area? Is the Design flow (gpd) indicated?	Yes ☑	No ☐	N/A ☐

130A-336(a)	Number of Bedrooms, employees, seats, etc. indicated?	Yes ☑	No ☐	N/A ☐
.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?		No ☐	N/A ☐
	Operation Permit	Yes ☑	No ☐	N/A ☐
.1937(j)	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 ☐

Items requiring correction/modification: _____

Comments:

_____

_____

_____

_____

_____

IA issued date: _____

OP issued date: _____

Review performed by: _____ Date performed: 2 10 08

MECKLENBURG COUNTY LAND USE AND ENVIRONMENTAL SERVICES AGENCY
CREDIT/REFUND APPLICATION & ADJUSTMENT/CANCELLATION FORM

See instruction sheet for completion instructions.

GAX-LUE - _____

CREDIT ☐ REFUND ☒ CANCEL ☐

1. Property Owner's Name: James K. Bowen 2. Permit #: File #4495B
3. Permit Address: 7537 Alamance Dr 4. Posting Date: _____ 5. Fire Fee #: _____
6. Account Name: _____ 7. Account # _____
8. If Refund, Check payable to: Vlastimil Didik 9. Phone # 704 840-7609
10. Mailing Address: 3416 Jonesberry Rd (Please Print) Matthews NC 28105
Street City State Zip
11. Signature: J.C. for Vlastimil Didik Printed Name Vlastimil Didik 13. Date: 6/4/08

REASON FOR REQUEST →
☐ Plan Change ☑ Not Doing Work ☐ Duplicate Permit (Dup. Permit # _____ Date _____)
☐ Wrong Contractor → SHOULD HAVE BEEN _____ CHARGES REAPPLIED _____
Correct contractor Staff Initials
☐ Other (Specify) _____

For Departmental Use Only - Do not write below this line

IF ADJUSTMENT
(to be completed by Emp & Supervisor)

Incorrect Entry - _____

Correct Entry -

Reason - _____

Initials _____ Date / /

Superv Initials _____ Date / /

INSP. COUNT & CANCELLATION OF PERMIT
(Completed by Applicable Core Process)

Number of Inspections

B	E	M	P	F	L

Cancellation of Permit
(completed by Applicable Core Process)

B	E	M	P	F	L
☐	☐	☐	☐	☐	☐

Initials _____ Date _____

Expired Permit ☐

Rev Coll. Date Stamp

CALCULATIONS
(Completed by Applicable Core Process)

Plan Review 80% = Plan Review 90% = No Plan Review	%
Insp. Info Each Insp (10%)	%
Total Crdt/Rfnd % PR% - Insp	%
Pmt or Fee Amt $ Total Amt	$ 150.00
Zoning Fee $ Amt	$

$ 150.00 X 100 % =

Total Pmt/ Fee Credit/Refund: $ 150.00

Permit Fee- Zoning X C/R% or Min/- Whichever is greater

JyC Initials 6/4/08 Date

VERIFICATION *(To Be Completed By Revenue Collection)*

If Refund	If Refund with Credit Balance	If Credit (Trans #)	Serv Chg Cr	Initials & Date	Posting Date
	8_03=0 9004=$		$		
Org/Account [8_03=0]	Refund Charge to account	88 - - -	88116		

APPROVALS *(To Be Completed By Department And Finance Representatives)*

Department Approval: _____ Date _____

Finance Approval: _____ Date _____

Assigned to: R S

Rev Coll. Date Stamp

Rev. Coll. Tracking # ____-____-____

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	02/28/08	**Amount:**	150.00
Receipt #:	55969	**Tendered:**	0.00
Check / Auth #:	MC R2949B	**Returned:**	0.00
Received By:	CRAIGGY		

Account Information

Account #: 200000
Contractor: DIDIK VLASTIMIL
Attn:
Address: 3416 Jonesberry Road
Address:
City/State/Zip: Matthews, NC 28105

Item	Description	Permit#	Quantity	Unit Price	Total Price
0734	Auth for Waste Wtr Sys Constr 7537 ALAMANCE DR/FILE 4495B		1	150.00	150.00

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

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

FEE: 150.00
DATE: 2/28/2008

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

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 4495B

PERMIT NUMBER: 30002999

PARCEL NUMBER: 11119320

JOB LOCATION INFORMATION

ADDRESS: 7537 ALAMANCE DR

CITY: CHARLOTTE **STATE: NC** **ZIP:** 28215

ISSUED TO: J. K BOWEN

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 2/28/2008

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30002999, 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 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 PERIOD EQUAL TO THE VALIDITY OF THE IMPROVEMENT PERMIT, NOT TO EXCEED 60 MONTHS.
   ***CONSTRUCTION AUTHORIZATION EXPIRATION DATE:** 1/14/2013

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 #: 30002999 GWS File #: 4495B Tax Parcel #: 111-193-20

- 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):** 1/14/2013

Type of Installation: Residential - New System Lot Number: 20

Structure Type: HOUSE Size (ft^2): 1700 # Bedrooms: 4 # Occupants: 4

Building Foundation: Crawl Space Water Supply: Municipal

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

Initial System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.2	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1800	Total Trench Length (ft):	600
Maximum Trench Depth (in):	18	Depth of Media (in):	N/A	Distribution Device:	Drop Boxes		

III. Repair System Type: N/A **System Classification:**

Repair System Specifications:

Design Flow (gpd):	0	LTAR (gpd/ft^2):		Septic Tank Size (gal):	0	Pump Tank Size (gal):	0
Trench Width (ft):	0	Trench Spacing (ft):	0	Absorption Area (ft^2):	0	Total Trench Length (ft):	0
Maximum Trench Depth (in):	0	Depth of Media (in):	0	Distribution Device:	N/A		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, 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 an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: David Cornelius Owner/Legal Agent: James K Bowen
Print Name

Signature: DC, RS Signature: James K Bowen

Date Issued: 2/14/2008

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-8894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: 30002999 GWS File #: 4495B

IV. Permit Conditions/Comments:

- All drainage improvements (swales, interceptor drains, etc.) noted on the plot plan must be inspected and approved prior to issuance of an Operation Permit.
- Additional soil cover, as specified on the plot plan, required over the drain field must be inspected and approved prior to issuance of an Operation Permit.
- 100% repair area is not required for this property. However, the maximum feasible area shall be allocated for a repair area.
- This Improvement Permit is being issued based on a supplemental soil investigation performed by staff from our office.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All components of the septic system must be located at least 100 ft. (50 ft. minimum) from all private wells.
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- Install according to revised plans on file submitted by Larry Thompson, 1/30/08.

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DENR Authorized Agent: David Cornelius
Signature: [signature] RS
Date Issued: 2/14/2008

Owner/Legal Agent: JAMES C BOWEN
Print Name
Signature: [signature]

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

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Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1800	Total Trench Length (ft):	600
Maximum Trench Depth (in):	18	Depth of Media (in):	N/A	Distribution Device:	Drop Boxes		

III. Repair System Type: N/A **System Classification:**

Repair System Specifications:

Design Flow (gpd):	0	LTAR (gpd/ft^2):		Septic Tank Size (gal):	0	Pump Tank Size (gal):	0
Trench Width (ft):	0	Trench Spacing (ft):	0	Absorption Area (ft^2):	0	Total Trench Length (ft):	0
Maximum Trench Depth (in):	0	Depth of Media (in):	0	Distribution Device:	N/A		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

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DENR Authorized Agent: David Cornelius Owner/Legal Agent: _____
Print Name

Signature: _____ RS Signature: _____

Date Issued: 2/14/2008

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 #: **30002999** GWS File #: **4495B**

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- 100% repair area is not required for this property. However, the maximum feasible area shall be allocated for a repair area.
- This Improvement Permit is being issued based on a supplemental soil investigation performed by staff from our office.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All components of the septic system must be located at least 100 ft. (50 ft. minimum) from all private wells.
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- Install according to revised plans on file submitted by Larry Thompson, 1/30/08.

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

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- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: David Cornelius

Signature: David Cornelius, RS

Date Issued: 2/14/2008

Owner/Legal Agent: _____
Print Name

Signature: _____

Residential Subsurface Wastewater Treatment and Disposal System Design

for

7537 Alamance Drive
Charlotte, North Carolina

Tax Parcel # 111-193-20
Mecklenburg County File # 4495B
January 30, 2008

GWS Septic System Design Review

GWS File #: 4495B Approved ☐ Disapproved ☐

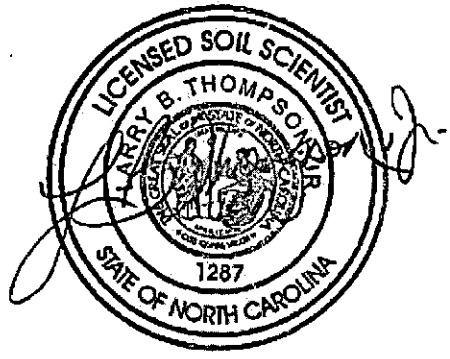
Design Review: TCT 2-11-08 ☒

Field Review: DC 2/14/08 ☒

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

Prepared for:

J. K. Bowen
7505 Alamance Drive
Charlotte, NC 28227
704-361-8070



Prepared by:

Larry Thompson, RS, PWS, LSS
Thompson Environmental Consulting, Inc.
114 Orchard Ridge Road
Locust, NC 28097-8748
Phone: 704-301-4881
Fax: 704-888-1496
larry@thompsonenv.com



cc: Mr. David Cornelius, RS
Mecklenburg County Environmental Health

Details

In an application for an Improvement Permit filed with the Mecklenburg County Health Department (MCHD) by Mr. J. K. Bowen, the subject property was proposed to be developed with a single family 4-bedroom residence served by public water. Based upon this information, a soil and site evaluation was conducted by the MCHD where the 0.78 acre lot was determined to be "Unsuitable" for the installation of a subsurface wastewater treatment and disposal system in accordance with the *Laws and Rules for Sewage Treatment, and Disposal Systems* 15A NCAC 18A .1900 (North Carolina Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section).

Mr. Bowen has contracted with Thompson Environmental Consulting, Inc. (TEC) to assist in the development of a proposal for an on-site wastewater treatment and disposal system that might allow for the construction of a 4-bedroom residence. Based upon an investigation performed by TEC it was determined that a sufficient amount of "Suitable" Group IV soils are available for the installation of a shallow placed Type III innovative system at a 0.2 long term acceptance rate for a 4-bedroom residence. It is our understanding that the repair area requirement of Paragraph (b) of 15A NCAC 18A .1945 is not applicable based upon the age of the lot.

It is the desire of the owner that the MCHD consider reclassifying this lot as "Provisionally Suitable", allowing for the issuance of an Improvement Permit and Construction Authorization, based upon the following revised proposal.

Location

The subject property is located at 7537 Alamance Drive in Charlotte, North Carolina. From Charlotte, travel east on US 74 approximately 3.3 miles and merge left onto Albemarle Road (NC 24/27). Alamance Drive is approximately 7.0 miles out Albemarle Road and is located on the left. Once on Alamance Drive, the subject property is located at the end of the street and is on the left in the cul-de-sac.

References

Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A, Section .1900, Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, June, 2006.

Onsite Wastewater Treatment and Disposal Systems; EPA 625/R-00/008 Design Manual, February 2002.

Innovative Wastewater System Approval: IWWS-95-3-R3; North Carolina Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, April 18, 2002.

Plans and Specifications

Septic Tank

- The septic tank shall be State approved (Section .1953 of 15A NCAC 18A), watertight, structurally sound, and 1500 gallons in capacity.
- The septic tank will be fitted with an approved effluent filter and riser for easy access and periodic maintenance.
- It is the responsibility of the septic contractor to thoroughly inspect the septic tank prior to accepting delivery to assure that the tank has had time to properly cure and is free of cracks or other structural deficiencies.

Pipes and Fittings

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

Distribution Method

- Wastewater from the septic tank will be directed to a series of "drop boxes" that will feed a total of ~~nine~~ eight (8) drain lines of varying lengths.
- The drop boxes shall be placed level and must be watertight.

Drain Field Installation

- The drain field has been previously laid out on-site utilizing metal stemmed flags. Once this area has been approved by the MCHD, the property owner/builder should mark this area and isolate it as much as possible from construction traffic. Prior to the system installation, the septic contractor shall contact the MCHD and the system designer for a preconstruction conference at which time the drain field area will be re-verified.
- Under no circumstances shall any construction take place within the drain field area while the soil is in a wet condition. If the installer has doubts as to whether or not the drain field area is dry enough to begin construction, the MCHD should be contacted for permission to proceed with the installation.
- The specified system is a shallow placed Type III Innovative system; the **EZ*flow* 1203H** or the **Infiltrator Chamber System** may be used (other innovative systems may be substituted with prior approval by the MCHD).
- The drain field consists of (8) lateral trenches to be constructed 3 foot wide by varying lengths. There are five (5) 80 foot long drain lines, one (1) 85 foot long drain line, one (1) 70 foot long drain line and one (1) 50 foot long drain line.
- The maximum trench depth for this system shall be 18 inches.
- The laterals are to be installed on contour with the land, keeping the individual trench bottoms level from beginning to end.
- The trenches should be left open for the final inspection by the MCHD.

9 FT. O.C. SPACING

6" SOIL COVER

Final Landscaping

- Finished soil cover must be at least 6 inches deep over the entire drain field area.
- The drain field shall be shaped to shed rainwater and be free from low spots.
- The drain field area should be planted with grass as soon as possible to prevent erosion. The soil should be properly tilled, limed (if necessary) and fertilized prior to planting. After applying grass seed, the area should be heavily mulched with straw or other suitable material.

Utility Conflicts

- The builder and property owner must take special care in planning for water, power, gas, telephone and cable lines. These utilities shall be kept clear of all parts of the septic system and its proposed repair area. Improper planning for underground utilities can negatively impact the installation and, in some cases, cause irreparable damage. If there are any questions regarding preferred routes, contact the MCHD as soon as possible.
- Lawn irrigation should not be placed over the drain field area.

Maintenance

In General

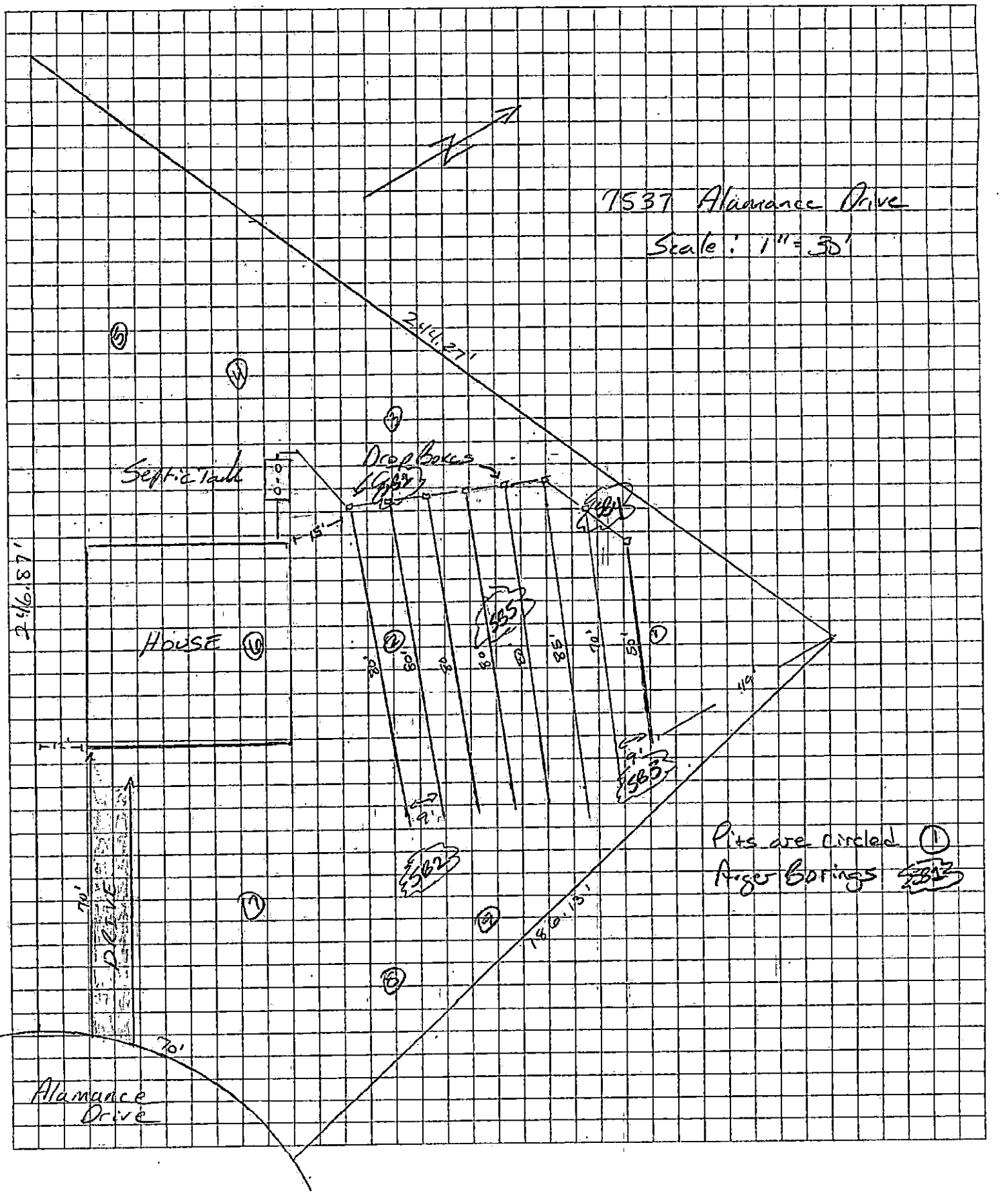
- The septic and pump tanks shall be pumped every 4 years or when the solids within the septic tank reach an elevation that is equivalent to 1/3 of the volume of the tank. In some situations, the tanks may need to be pumped more frequently. If using a garbage disposal, it is recommended that the homeowner has the septic and pump tanks cleaned out annually.
- When it becomes necessary to clean the effluent filter, the filter should be removed and the accumulated debris washed back into the septic tank – not onto the lawn.
- All piping and valves should be inspected annually for damage and corrections/repairs made immediately.
- The drain field area should be maintained to prevent over growth of vegetation. Any damp areas, leakages or malfunctions should be addressed immediately.
- Divert gutter downspouts and surface water runoff away from the septic and pump tanks.

Suggestions to the Homeowner

- As previously mentioned, if you plan to use a garbage disposal in your home you should plan to have your septic and pump tanks cleaned out annually. The ground up garbage adds large amounts of solids into a septic tank that tend to degrade at a very slow rate.
- Grease, cooking oils, coffee grounds and non-degradable solids (disposable diapers, cigarettes and solid paper wastes) should never be put into a septic tank.
- Used motor oil or any oily liquids should not be disposed of in a septic tank.

Thompson Environmental Consulting, Inc.
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Locust, NC 28097-8748

File Number: 4495B
Location: 7537 Alamance Drive
Date: December 26, 2007



- Be aware of the amount of water that you are using in your home. Water saving fixtures and devices can be installed on sinks, toilets and showers to reduce the volume of wastewater that you are sending to your drain field.
- Run dishwashers and washing machines only when you have a full load.
- Use liquid detergents. Powdered detergents have binding agents in them that tend to solidify in the wastewater disposal system.
- Repair leaky faucets and toilets. Small drips equal large volumes of water over time and can over burden your drain field.
- Do not use chemical additives in your system. Studies have indicated that they do not increase the biological activity that naturally occurs in the septic system and in some cases certain additives have been found to be detrimental to the life of a system.

Design Specifics

Daily Design Flow:	480 GPD – 4 bedroom house
Septic Tank Size:	1500 gallons (2 compartments)
Effluent Loading Rate:	Design = 0.2 GPD per sq. ft.
Drain Field Type:	EZFlow 1203H or Infiltrator Chamber System
Distribution Method:	Gravity – Drop Boxes
Drain Lines:	(8) 3' Wide x 18" Deep (5) 80 foot long drain lines (1) 85 foot long drain line (1) 70 foot long drain line (1) 50 foot long drain line

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Locust, NC 28097-8748
704-301-4881

SHEET 1 OF 1

COUNTY: Mecklenburg
TAX ID: 111-193-20

OWNER: J.K. Bowen
LOCATION: 7537 Alamance Drive

DATE: January 30, 2008

PROFILES		SB 1	SB 2	SB 3	SB 4	SB 5					
LANDSCAPE POSITION	.1940	ls	ls	ls	ls	ls					
SLOPE (%)	.1940	6%	6%	6%	6%	6%					
HORIZON 1 DEPTH	.1943	0-8	0-6	0-10	0-8	0-7					
TEXTURE	.1941 (a)(1)	l	l	l	l	l					
CONSISTENCE	.1941	fr	fr	fr	fr	fr					
STRUCTURE	.1941 (a)(2)	gr	gr	gr	gr	gr					
CLAY MINERALOGY	.1941 (a)(3)	-	-	-	-	-					
HORIZON 2 DEPTH	.1943	8-34	6-30	10-40+	8-40+	7-36					
TEXTURE	.1941 (a)(1)	c	c	c	c	c					
CONSISTENCE	.1941	fi	fi	fi	fi	fi					
STRUCTURE	.1941 (a)(2)	sbk	sbk	sbk	sbk	sbk					
CLAY MINERALOGY	.1941 (a)(3)	se	se	se	se	se					
HORIZON 3 DEPTH	.1943	34+	30+			36+					
TEXTURE	.1941 (a)(1)	cl	cl			cl					
CONSISTENCE	.1941	fr	fr			fr					
STRUCTURE	.1941 (a)(2)	m	m			m					
CLAY MINERALOGY	.1941 (a)(3)	se	se			se					
HORIZON 4 DEPTH	.1943										
TEXTURE	.1941 (a)(1)										
CONSISTENCE	.1941										
STRUCTURE	.1941 (a)(2)										
CLAY MINERALOGY	.1941 (a)(3)										
SOIL WETNESS	.1942										
RESTRICTIVE HORIZON	.1944										
SAPROLITE	.1943/.1956	34	30			36					
CLASSIFICATION	.1948										
L.T.A.R. (gpd/ft^2)	.1955	0.2	0.2	0.25	0.25	0.25					

OTHER FACTORS (.1946):		**SITE LTAR (gpd/ft^2):**	**0.2**
AVAILABLE SPACE (.1945):			
SITE CLASSIFICATION (.1948):	provisionally suitable	SYSTEM TYPE:	shallow placed innovative
EVALUATED BY:	Larry Thompson	OTHERS PRESENT:	J. Howard

COMMENTS:

LOT.# _____

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

Sheet:
Property ID: 111-193-20
Lot #: 20
File #: 4495B
AppID: 2999

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: J. K. Bowen
Applicant:
Address: 7505 Alamance Drive, Charlotte, N. C. 28227
Date Evaluated: 12/14/2007
Proposed Facility: Residence
Design Flow (.1949): 480gpd
Property Size: .78a
Location of Site: 7537 Alamance Drive
Property Recorded:
Water Supply: [x] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [x] 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	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	LS, 6	0-8	GR/L	FR/SEXP/NS/NP	>43" TO SOIL WETNESS	43	N/A	NONE	PS, IV .25GPD/FT^2
		8-26	SBK/ABK/C	FI/SEXP/S/P					
		26-43	SBK/ABK/C	"					
		CLAY	LOAM	INCLUSIONS 26-43"					
2	"	0-10	GR/L	FR/SEXP/NS/NP	>41" TO SOIL WETNESS	41	"	"	PS, IV .2GPD/FT^2
		10-41	SBK/ABK/C	FI/SEXP/S/P					
3	LS, 8	0-7	GR/L	FR/SEXP/NS/NP	>44" TO SOIL WETNESS	44	"	"	US
		7-22	SBK/ABK/C	FI/SEXP/S/P					
		22-44	ABK/PR/C	FI-VFI/MIXED/ VFI/S					
4	"	0-6	GR/CL	FR/SEXP/SS/SP	>37" TO SOIL WETNESS	37	"	"	"
		6-21	SBK/ABK/C	FI/SEXP/S/P					
		21-37	ABK/PR/C	FI-VFI/MIXED/ VFI/S					
5	"	0-6	GR/CL	FR/SEXP/SS/SP	>42" TO SOIL WETNESS	42	US	"	"
		6-21	SBK/ABK/C	FI/SEXP/S/P					
		21-42	ABK/PR/C	FI-VFI/MIXED/ VFI/S					
		42+	M/CL	FR/SEXP/SS/SP					
6	"	0-4	GR/SCL	"	>38" TO SOIL WENESS	38	N/A	"	PS, IV .2GPD/FT^2
		4-22	SBK/ABK/CL	"					
		22-38	SBK/ABK/C	FI/SEXP/S/P					

Description	Initial System	Repair System
Available Space (.1945)	PS	NA
System Type(s)	IIIg	NA
Site LTAR	0.2	NA

Other Factors (.1946):
Soil Evaluation By: W. R. Marlin, LSS, 12/17/2007.
Others Present: J. K. Bowen
Site Classification (.1948): Provisionally Suitable
Site Evaluation By: David Cornelius, RS
Others Present:

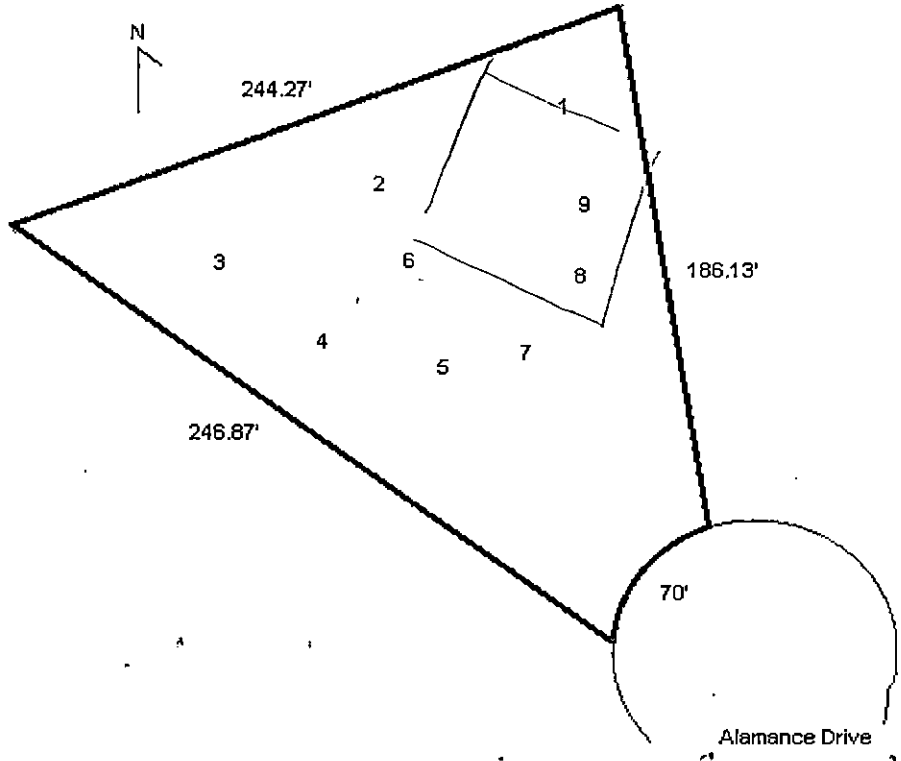
* 2/14/08
SOIL DEPTH IN PROPOSED DRAINFIELD AREA CONFIRMED AS PROVISIONALLY SUITABLE

COMMENTS:
Does not require 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



SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
CONTINUED

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
7	LS, 8	0-6	GR/L	FR/SEXP/NS/NP	>24" TO SOIL WETNESS	20	US	NONE	US, IV
		6-13	SBK/CL	FR/SEXP/SS/SP					
		13-20	SBK/ABK/C	FI/SEXP/S/P					
		20-24	M/CL	FR/SEXP/SS/SP					
8	"	0-8	GR/CL	"	>43" TO SOIL WETNESS	43	N/A	"	US, IV .1GPD/FT^2
		8-15	SBK/CL	"					
		15-26	SBK/ABK/C	FI/SEXP/S/P					
		26-43	ABK/PR/SBK/C	"					
9	"	0-6	GR/CL	FR/SEXP/SS/SP	2.5Y7/1 at 38"	48	"	"	"
		6-15	SBK/CL	"					
		15-29	SBK/ABK/C	FI/SEXP/S/P					
		29-48	ABK/PR/SBK/C	"					
					SITE LTAR .225GPD/FT^2				

BM

FILE NUMBER: 4495B

Revised On: August 31, 2007

APPLICATION NUMBER: 2999

SEPTIC FEE: 200.00
DATE: 11/19/07
CK# 1395

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

WELL FEE: _____
DATE: _____

1. SEPTIC / TYPE APPLICATION: ☐ NONE ☑ NEW SYSTEM ☐ ALTERATION ☐ REPAIR ☐ MODIFIED PLOT PLAN

2. WELL / TYPE APPLICATION: ☐ NONE ☐ NEW WELL ☐ MAJOR REPAIR ☐ ABANDONMENT

3. JOB LOCATION INFORMATION:

TAX PARCEL NUMBER: 11119320
STREET ADDRESS: 7537 Alamance Dr.
CITY: Charlotte
STATE: NC ZIP: 28227
SUBDIVISION NAME: N/A
LOT #: 140 LOT SIZE (acres): 5/8
TOWNSHIP:

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

4. BUILDING INFORMATION:

BUILDING TYPE:

☐ SINGLE MOBILE HOME ☐ MODULAR HOME
☐ DOUBLE WIDE ☐ MULTIPLE FAMILY
☒ HOUSE ☐ OTHER _____

HEATED SQUARE FOOTAGE: min. 1700
NUMBER OF BEDROOMS: 3
NUMBER OF OCCUPANTS: 4

FOUNDATION TYPE:

☐ CONCRETE SLAB ☐ BASEMENT WITH PLUMBING
☒ CRAWL SPACE ☐ BASMENT WITH NO PLUMBING

5. IF PLANNING TO EXPAND OR ALTER THE EXISTING 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 ☐ PUBLIC WELL ☐ PRIVATE WELL ☐ SHARED WELL ☐ SPRING

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

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

☒ ANY TYPE ☐ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER _____

8A. RANK: ____ ____ ____ ____ ____

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

BURIED CABLES, LANDFILLS, STUMPHOLES	☐ YES	☒ NO	GRADING/SOIL REMOVAL PERFORMED	☐ YES	☒ NO
EXISTING WASTEWATER (SEPTIC) SYSTEMS	☐ YES	☒ NO	JURISDICTIONAL WETLANDS	☐ YES	☒ NO
WELLS, SPRINGS, OR WATER LINES	☐ YES	☒ NO	APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	☐ YES	☒ NO
EASEMENTS OR RIGHT-OF-WAYS	☐ YES	☒ NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	☐ YES	☒ NO

10. PROPERTY OWNER:

NAME: J.K. Bowen
ADDRESS: 7505 Alamance Drive
CITY: Charlotte
STATE: NC ZIP: 28227
HOME PHONE: 7043618070 WORK PHONE: 7043618070
MOBILE PHONE: 7043618070 FAX: 7045451489

11. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:

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

12. WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? _____
13 WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? 12-01-07

14. SEPTIC SYSTEM PERMIT APPLICATION SIGNATURE SECTION:
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 60 months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

J K B 11-14-07
Property Owner's or Owner's Legal Representative Signature Date

15. WELL PERMIT APPLICATION SIGNATURE SECTION:
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 12 months from the date of issuance.

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

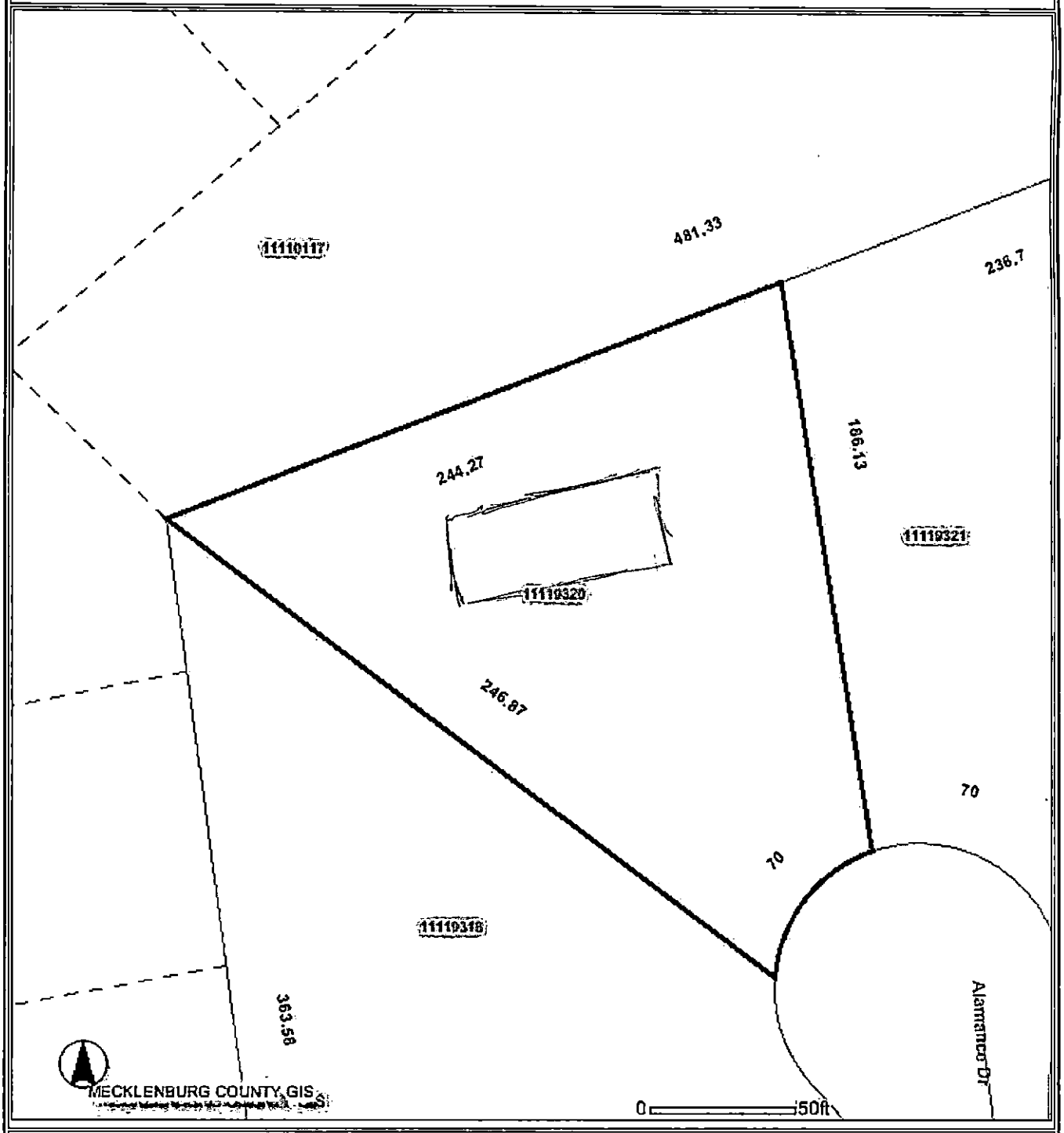
☐ SURVEY PLAT TO SCALE SUBMITTED ☐ SCALED SITE PLAN SUBMITTED ☐ UN-SCALED SITE PLAN SUBMITTED

Mecklenburg County, North Carolina

POLARIS

Property Ownership Land Records Information System

Date Printed: Tue Oct 30 11:03:00 EDT 2007



This map 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 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.

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	11/19/07	**Amount:**	200.00
Receipt #:	53679	**Tendered:**	200.00
Check / Auth #:	CHECK 1395	**Returned:**	0.00
Received By:	GLADNAG		

Account Information

Account #: 200000
Contractor: REMODELING BY J K BOWEN, INC
Attn:
Address: 621 S SHARON AMITY RD
Address:
City/State/Zip: CHARLOTTE, NC 28211

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 7537 ALAMANCE DR		1	200.00	200.00

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

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

Residential Subsurface Wastewater Treatment and Disposal System Design

for

7537 Alamance Drive
Charlotte, North Carolina

Tax Parcel # 111-193-20
Mecklenburg County File # 4495B
December 26, 2007

GWS Septic System Design Review

GWS File #: 44958 Approved ☐ Disapproved ☐

Design Review: ☐ ☐ 1-14-08

Field Review: ☐ ☐ 1-14-08

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

DISAPPROVED
MIXED
MINERALOGY

Prepared for:

J. K. Bowen
7505 Alamance Drive
Charlotte, NC 28227
704-361-8070

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

Prepared by:

Larry Thompson, RS, PWS, LSS
Thompson Environmental Consulting, Inc.
114 Orchard Ridge Road
Locust, NC 28097-8748
Phone: 704-301-4881
Fax: 704-888-1496
larry@thompsonenv.com

NORTH CAROLINA REGISTERED SEAL 1208 SANITARIAN LARRY B. THOMPSON, JR.

cc: Mr. David Cornelius, RS
Mecklenburg County Environmental Health

Michael Jones
Mike's
Diner

Send this message using Postal Express

Name: _____ Telephone: _____

Postal Express

Big Bend Postal Service

Date: 12/05/2003 Time: 14:32:07

"ADVANCE" Postage Meter

Amount: $0.37

Postage Due: $0.00

Thank you for using Postal Express

Details

In an application for an Improvement Permit filed with the Mecklenburg County Health Department (MCHD) by Mr. J. K. Bowen, the subject property was proposed to be developed with a single family 4-bedroom residence served by public water. Based upon this information, a soil and site evaluation was conducted by the MCHD where the 0.78 acre lot was determined to be "Unsuitable" for the installation of a subsurface wastewater treatment and disposal system in accordance with the *Laws and Rules for Sewage Treatment, and Disposal Systems* 15A NCAC 18A .1900 (North Carolina Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section).

Mr. Bowen has contracted with Thompson Environmental Consulting, Inc. (TEC) to assist in the development of a proposal for an on-site wastewater treatment and disposal system that might allow for the construction of a 4-bedroom residence. Based upon an investigation performed by TEC it was determined that a sufficient amount of "Suitable" Group IV soils are available for the installation of a shallow placed Type III innovative system at a 0.2 long term acceptance rate for a 4-bedroom residence. It is our understanding that the repair area requirement of Paragraph (b) of 15A NCAC 18A .1945 is not applicable based upon the age of the lot.

It is the desire of the owner that the MCHD consider reclassifying this lot as "Provisionally Suitable", allowing for the issuance of an Improvement Permit and Construction Authorization, based upon the following proposal.

Location

The subject property is located at 7537 Alamance Drive in Charlotte, North Carolina. From Charlotte, travel east on US 74 approximately 3.3 miles and merge left onto Albemarle Road (NC 24/27). Alamance Drive is approximately 7.0 miles out Albemarle Road and is located on the left. Once on Alamance Drive, the subject property is located at the end of the street and is on the left in the cul-de-sac.

References

Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A, Section .1900, Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, June, 2006.

Onsite Wastewater Treatment and Disposal Systems; EPA 625/R-00/008 Design Manual, February 2002.

Innovative Wastewater System Approval: IWWS-95-3-R3; North Carolina Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, April 18, 2002.

Plans and Specifications

Septic Tank

- The septic tank shall be State approved (Section .1953 of 15A NCAC 18A), watertight, structurally sound, and 1500 gallons in capacity.
- The septic tank will be fitted with an approved effluent filter and riser for easy access and periodic maintenance.
- It is the responsibility of the septic contractor to thoroughly inspect the septic tank prior to accepting delivery to assure that the tank has had time to properly cure and is free of cracks or other structural deficiencies.

Pipes and Fittings

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

Distribution Method

- Wastewater from the septic tank will be directed to a series of "drop boxes" that will feed a total of ~~nine~~ eight (8) drain lines of varying lengths.
- The drop boxes shall be placed level and must be watertight.

Drain Field Installation

- The drain field has been previously laid out on-site utilizing metal stemmed flags. Once this area has been approved by the MCHD, the property owner/builder should mark this area and isolate it as much as possible from construction traffic. Prior to the system installation, the septic contractor shall contact the MCHD and the system designer for a preconstruction conference at which time the drain field area will be re-verified.
- Under no circumstances shall any construction take place within the drain field area while the soil is in a wet condition. If the installer has doubts as to whether or not the drain field area is dry enough to begin construction, the MCHD should be contacted for permission to proceed with the installation.
- The specified system is a shallow placed Type III Innovative system; the **EZ*flow* 1203H** or the **Infiltrator Chamber System** may be used (other innovative systems may be substituted with prior approval by the MCHD).
- The drain field consists of (8) lateral trenches to be constructed 3 foot wide by varying lengths. There are two (2) 100 foot long drain lines, one (1) 95 foot long drain line, two (2) 85 foot long drain lines, one (1) 65 foot long drain line, one (1) 40 foot long drain line and one (1) 30 foot long drain line.
- The maximum trench depth for this system shall be 25 inches.
- The laterals are to be installed on contour with the land, keeping the individual trench bottoms level from beginning to end.

- The trenches should be left open for the final inspection by the MCHD.

Final Landscaping

- Finished soil cover must be at least 6 inches deep over the entire drain field area.
- The drain field shall be shaped to shed rainwater and be free from low spots.
- The drain field area should be planted with grass as soon as possible to prevent erosion. The soil should be properly tilled, limed (if necessary) and fertilized prior to planting. After applying grass seed, the area should be heavily mulched with straw or other suitable material.

Utility Conflicts

- The builder and property owner must take special care in planning for water, power, gas, telephone and cable lines. These utilities shall be kept clear of all parts of the septic system and its proposed repair area. Improper planning for underground utilities can negatively impact the installation and, in some cases, cause irreparable damage. If there are any questions regarding preferred routes, contact the MCHD as soon as possible.
- Lawn irrigation should not be placed over the drain field area.

Maintenance

In General

- The septic and pump tanks shall be pumped every 4 years or when the solids within the septic tank reach an elevation that is equivalent to 1/3 of the volume of the tank. In some situations, the tanks may need to be pumped more frequently. If using a garbage disposal, it is recommended that the homeowner has the septic and pump tanks cleaned out annually.
- When it becomes necessary to clean the effluent filter, the filter should be removed and the accumulated debris washed back into the septic tank – not onto the lawn.
- All piping and valves should be inspected annually for damage and corrections/repairs made immediately.
- The drain field area should be maintained to prevent over growth of vegetation. Any damp areas, leakages or malfunctions should be addressed immediately.
- Divert gutter downspouts and surface water runoff away from the septic and pump tanks.

Suggestions to the Homeowner

- As previously mentioned, if you plan to use a garbage disposal in your home you should plan to have your septic and pump tanks cleaned out annually. The ground up garbage adds large amounts of solids into a septic tank that tend to degrade at a very slow rate.

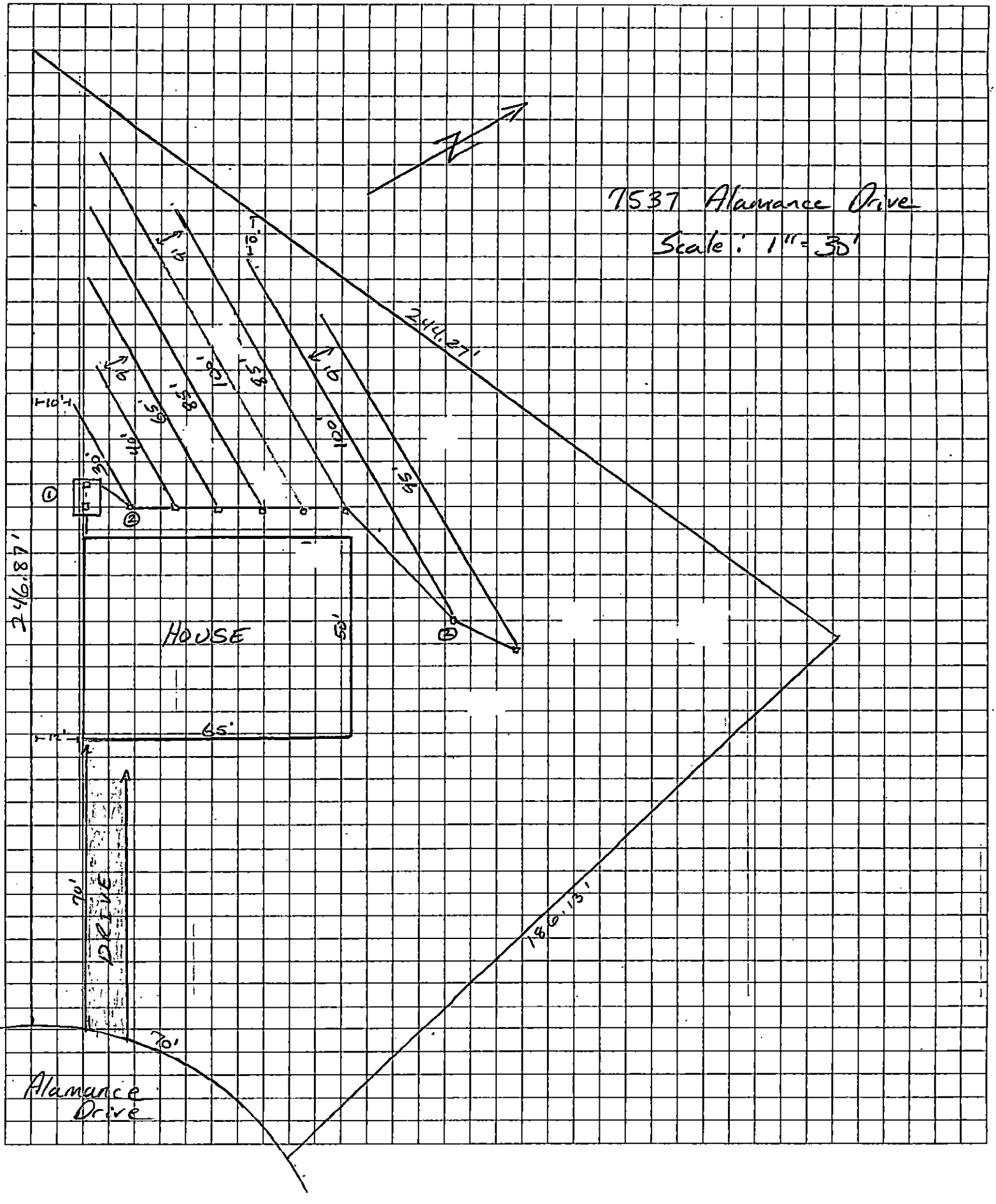
- Grease, cooking oils, coffee grounds and non-degradable solids (disposable diapers, cigarettes and solid paper wastes) should never be put into a septic tank.
- Used motor oil or any oily liquids should not be disposed of in a septic tank.
- Be aware of the amount of water that you are using in your home. Water saving fixtures and devices can be installed on sinks, toilets and showers to reduce the volume of wastewater that you are sending to your drain field.
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- Use liquid detergents. Powdered detergents have binding agents in them that tend to solidify in the wastewater disposal system.
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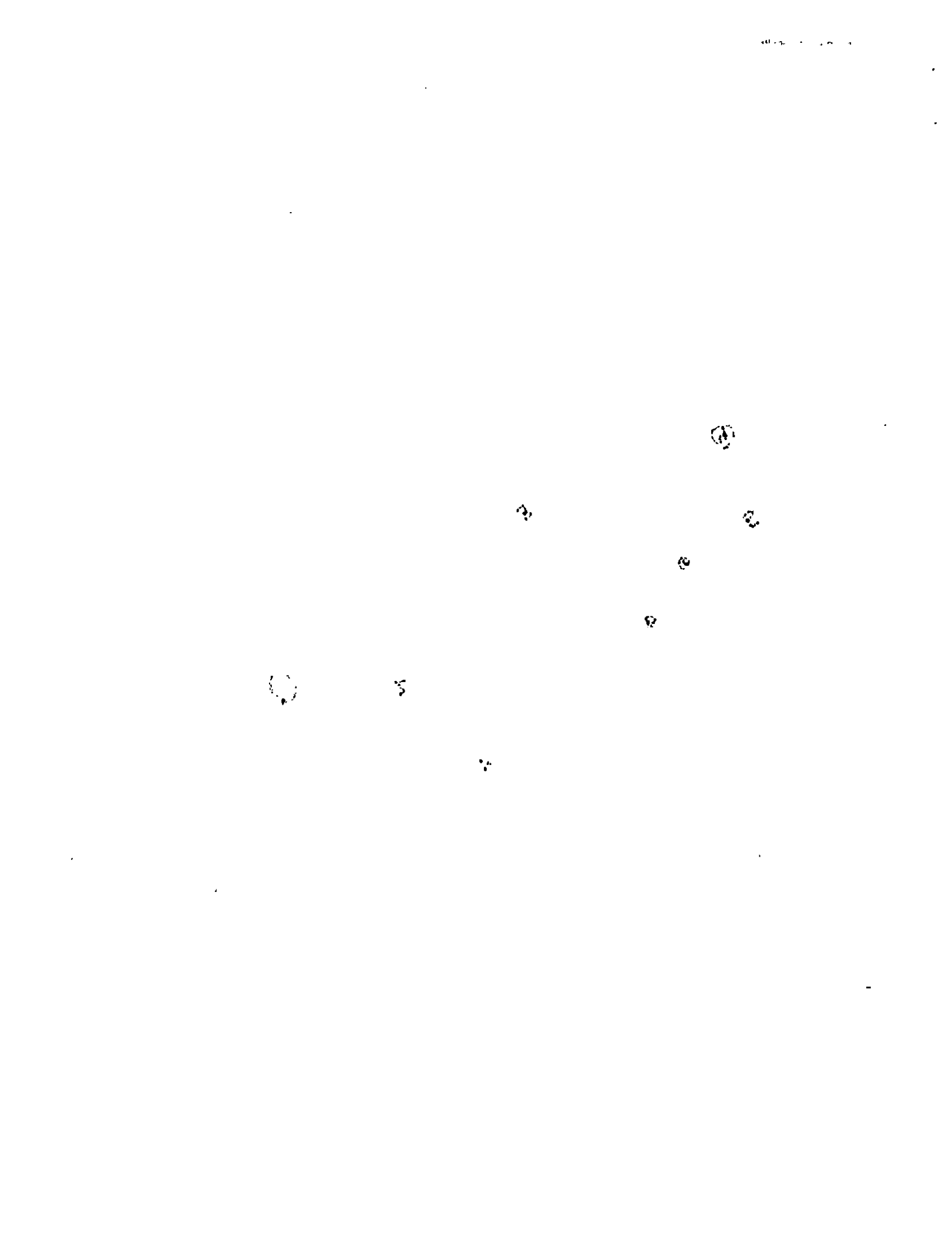
Design Specifics

Daily Design Flow:	480 GPD – 4 bedroom house
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Thompson Environmental Consulting, Inc.
114 Orchard Ridge Road
Locust, NC 28097-8748

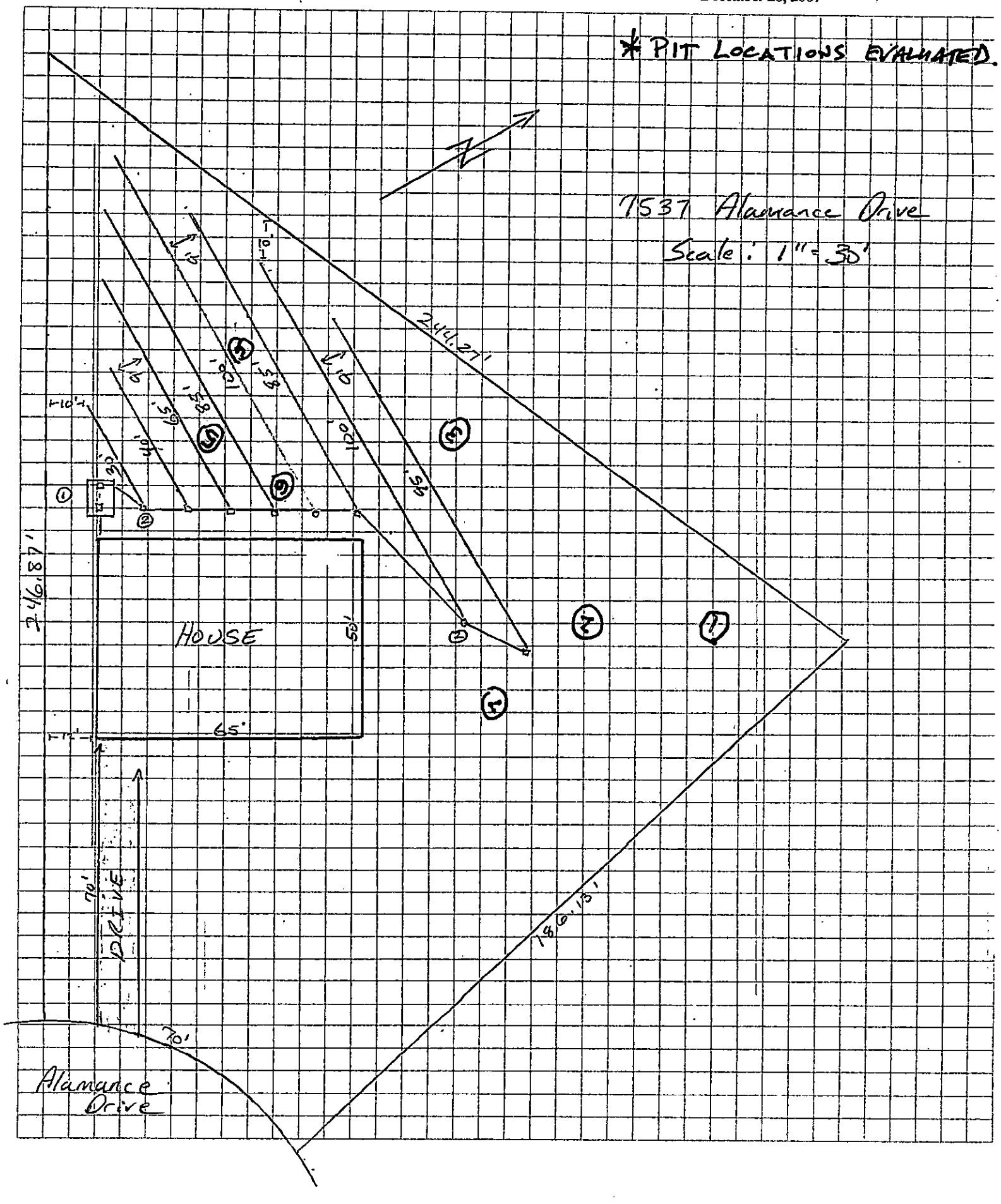
File Number: 4495B
Location: 7537 Alamance Drive
Date: December 26, 2007





Thompson Environmental Consulting, Inc.
114 Orchard Ridge Road
Locust, NC 28097-8748

File Number: 4495B
Location: 7537 Alamance Drive
Date: December 26, 2007


* PIT LOCATIONS EVALUATED.
7537 Alamance Drive
Scale: 1" = 30'
N
244.27'
246.84'
HOUSE
51'
65'
30'
10'
10'
10

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

Sheet:
Property ID: 111-193-20
Lot #: 20
File #: 4495B
AppID: 2999

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: J. K. Bowen
Applicant:
Address: 7505 Alamance Drive, Charlotte, N. C. 28227
Date Evaluated: 12/14/2007
Proposed Facility: Residence
Design Flow (.1949): 480gpd
Property Size: .78a
Location of Site: 7537 Alamance Drive
Property Recorded:
Water Supply: [x] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [x] 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	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	LS, 6	0-8	GR/L	FR/SEXP/NS/NP	>43" TO SOIL WETNESS	43	N/A	NONE	PS, IV .25GPD/FT^2
		8-26	SBK/ABK/C	FI/SEXP/S/P					
		26-43	SBK/ABK/C	"					
		CLAY	LOAM	INCLUSIONS 26-43"					
2	"	0-10	GR/L	FR/SEXP/NS/NP	>41" TO SOIL WETNESS	41	"	"	PS, IV .2GPD/FT^2
		10-41	SBK/ABK/C	FI/SEXP/S/P					
3	LS, 8	0-7	GR/L	FR/SEXP/NS/NP	>44" TO SOIL WETNESS	44	"	"	US
		7-22	SBK/ABK/C	FI/SEXP/S/P					
		22-44	ABK/PR/C	FI-VFI/MIXED/ VFI/S					
4	"	0-6	GR/CL	FR/SEXP/SS/SP	>37" TO SOIL WETNESS	37	"	"	"
		6-21	SBK/ABK/C	FI/SEXP/S/P					
		21-37	ABK/PR/C	FI-VFI/MIXED/ VFI/S					
5	"	0-6	GR/CL	FR/SEXP/SS/SP	>42" TO SOIL WETNESS	42	US	"	"
		6-21	SBK/ABK/C	FI/SEXP/S/P					
		21-42	ABK/PR/C	FI-VFI/MIXED/ VFI/S					
		42+	M/CL	FR/SEXP/SS/SP					
6	"	0-4	GR/SCL	"	>38" TO SOIL WENESS	38	N/A	"	PS, IV .2GPD/FT^2
		4-22	SBK/ABK/CL	"					
		22-38	SBK/ABK/C	FI/SEXP/S/P					

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)		
Site LTAR		

Other Factors (.1946):
Soil Evaluation By: W. R. Marlin, LSS, 12/17/2007,
Others Present: J. K. Bowen
Site Classification (.1948):
Site Evaluation By:
Others Present:

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
CONTINUED

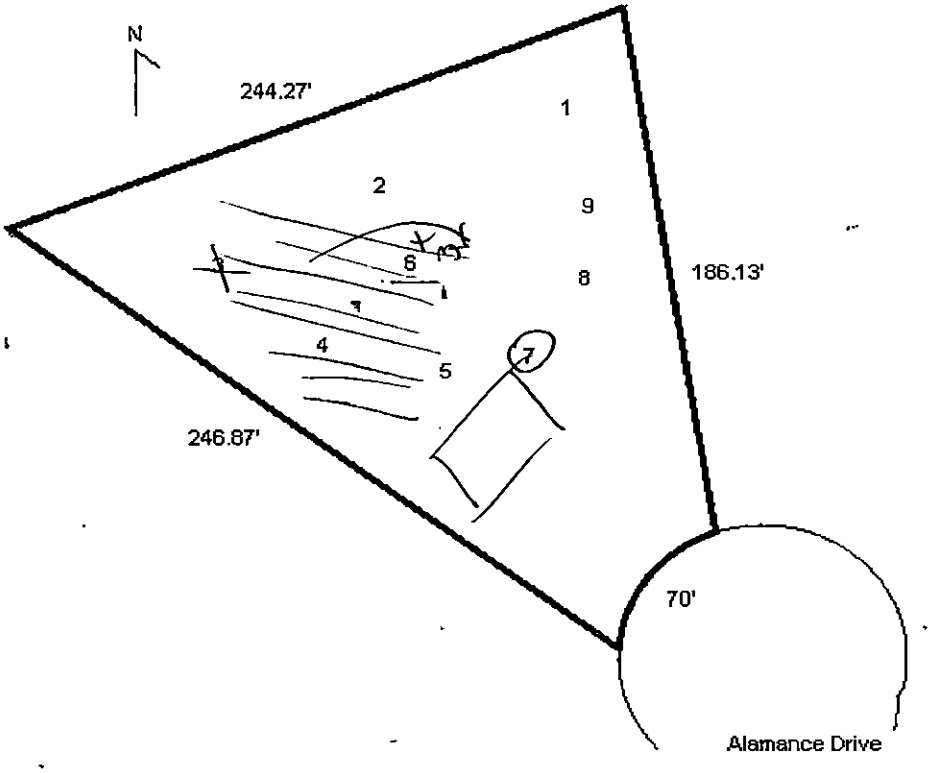
PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	OTHER PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
7	LS, 8	0-6	GR/L	FR/SEXP/NS/NP	>24" TO SOIL WETNESS	20	US	NONE	US, IV
		6-13	SBK/CL	FR/SEXP/SS/SP					
		13-20	SBK/ABK/C	FI/SEXP/S/P					
		20-24	M/CL	FR/SEXP/SS/SP					
8	"	0-8	GR/CL	"	>43" TO SOIL WETNESS	43	N/A	"	US, IV .1GPD/FT^2
		8-15	SBK/CL	"					
		15-26	SBK/ABK/C	FI/SEXP/S/P					
		26-43	ABK/PR/SBK/C	"					
9	"	0-6	GR/CL	FR/SEXP/SS/SP	2.5Y7/1 at 38"	48	"	"	"
		6-15	SBK/CL	"					
		15-29	SBK/ABK/C	FI/SEXP/S/P					
		29-48	ABK/PR/SBK/C	"					
					SITE LTAR .225GPD/FT^2				

COMMENTS:
Does not require 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



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

Sheet:
Property ID: 111-193-20
Lot #: 20
File #: 4495B
AppID: 2999

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: J. K. Bowen — Applicant:
Address: 7505 Alamance Drive, Charlotte, N. C. 28227 — Date Evaluated: 12/14/07
Proposed Facility: Residence — Design Flow (.1949): 480gpd — Property Size: .78a
Location of Site: 7537 Alamance Drive — Property Recorded:
Water Supply: [x] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [x] 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	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	LS, 6	0-8	GR/L	FR/SEXP/NS/NP	>43" TO SOIL WETNESS	43	N/A	NONE	PS, IV .25GPD/FT^2
		8-26	SBK/ABK/C	FI/SEXP/S/P					
		26-43	SBK/ABK/C	"					
		CLAY	LOAM	INCLUSIONS 26-43"					
2	"	0-10	GR/L	FR/SEXP/NS/NP	>41" TO SOIL WETNESS	41	"	"	PS, IV .2GPD/FT^2
		10-41	SBK/ABK/C	FI/SEXP/S/P					
3	LS, 8	0-7	GR/L	FR/SEXP/NS/NP	>44" TO SOIL WETNESS	44	"	"	US
		7-22	SBK/ABK/C	FI/SEXP/S/P					
		22-44	ABK/PR/C	FI-VFI/MIXED/ VFI/S					
4	"	0-6	GR/CL	FR/SEXP/SS/SP	>37" TO SOIL WETNESS	37	"	"	"
		6-21	SBK/ABK/C	FI/SEXP/S/P					
		21-37	ABK/PR/C	FI-VFI/MIXED/ VFI/S					
5	"	0-6	GR/CL	FR/SEXP/SS/SP	>42" TO SOIL WETNESS	42	US	"	"
		6-21	SBK/ABK/C	FI/SEXP/S/P					
		21-42	ABK/PR/C	FI-VFI/MIXED/ VFI/S					
		42+	M/CL	FR/SEXP/SS/SP					
6	"	0-4	GR/SCL	"	>38" TO SOIL WENESS	38	N/A	"	PS, IV .2GPD/FT^2
		4-22	SBK/ABK/CL	"					
		22-38	SBK/ABK/C	FI/SEXP/S/P					

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)		
Site LTAR		

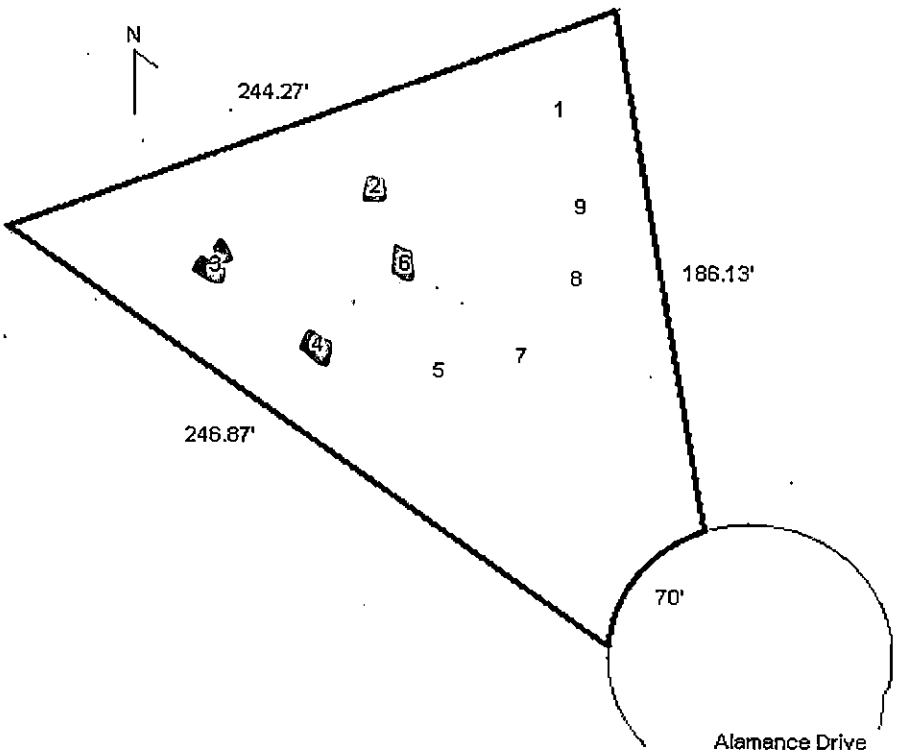
Other Factors (.1946):
Soil Evaluation By: W. R. Martin, LSS, 12/17/2007, W. R. Martin
Others Present: J. K. Bowen
Site Classification (.1948):
Site Evaluation By:
Others Present:

COMMENTS:
Does not require 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



SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
CONTINUED

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 (IN.)	.1956 Sapro Class	.1944 Restr Horiz	
7	LS, 8	0-6	GR/L	FR/SEXP/NS/NP	>24" TO SOIL WETNESS	20	US	NONE	US, IV
		6-13	SBK/CL	FR/SEXP/SS/SP					
		13-20	SBK/ABK/C	FI/SEXP/S/P					
		20-24	M/CL	FR/SEXP/SS/SP					
8	"	0-8	GR/CL	"	>43" TO SOIL WETNESS	43	N/A	"	US, IV .1GPD/FT^2
		8-15	SBK/CL	"					
		15-26	SBK/ABK/C	FI/SEXP/S/P					
		26-43	ABK/PR/SBK/C	"					
9	"	0-6	GR/CL	FR/SEXP/SS/SP	2.5Y7/1 at 38"	48	"	"	"
		6-15	SBK/CL	"					
		15-29	SBK/ABK/C	FI/SEXP/S/P					
		29-48	ABK/PR/SBK/C	"					
					SITE LTAR .225GPD/FT^2				

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

AGS #2

Sheet: _____
Property ID: 111-193-20
Lot #: 20
File #: 4495B

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Ewell C. Madden APPLICANT: _____
ADDRESS: 7536 Alamance Dr, Charlotte, N.C. DATE EVALUATED: 12-28-00
PROPOSED FACILITY: residence PROPOSED DESIGN FLOW (.1949) 360gpc/ PROPERTY SIZE: .60
LOCATION OF SITE: 7537 Alamance Dr. PROPERTY RECORDED: _____
WATER SUPPLY: ☐Private ☑Public ☐Well ☐Spring ☐Other _____
EVALUATION METHOD: ☐Augur Boring ☐Pit ☐Cut
TYPE OF WASTEWATER: ☑Sewage ☐Industrial Process ☐Mixed

PROFILE #	1940 Landscape Position/ Slope % (Slopes 6-15%)	Horizon Depth (IN.)	SOIL MORPHOLOGY (.1941) 1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) 1941 CONSISTENCE MINERALOGY	OTHER PROFILE FACTORS 1942 SOIL WETNESS/ COLOR	1943 SOIL DEPTH	1956 SAPRO CLASS	1944 RESTR HORIZ	PROFILE CLASS &LTAR
1	LS	0-4"	gr/cl	Fr/SExPl/SS/SP	748" To soil wetness	48"	N/A	None	PS .1gl P2 IV
		4-48"	SBK/C	F.I/SExPl/SP					
2	LS	0-6"	gr/cl	Fr/SExPl/SS/SP	731" To soil wetness	31"	N/A	None	US
		6-26"	ABK SBK/C	F.I/SExPl/SP					
		26-31"	ABK/C	v.Fi/Mixed/ US/UP					
3	LS	0-5"	gr/cl	Fr/SExPl/SS/SP	724" To soil wetness	24"	N/A	None	US .1gl P2 IV
		5-24"	SBK/C	Fi/SExPl/SP					
4	LS	0-3"	gr/cl	Fr/SExPl/SS/SP	725" To soil wetness	25"	N/A	None	US .1gl P2 IV
		3-25"	SBK/C	Fi/SExPl/SP					
5	LS	0-3"	gr/cl	Fr/SExPl/SS/SP	725" To soil wetness	25"	N/A	None	US
		3-25"	ABK/C	v.Fi/Mixed/ US/UP					
6	LS	0-6"	gr/cl	Fr/SExPl/SS/SP	730" To soil wetness	30"	N/A	None	US IV .07Sgl P2
		6-30"	ABK/C	Fi/SExPl/SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	US	
System Type(s)		
Site LTAR	.1gl/ft²	

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): Unsuitable
EVALUATED BY: W.R. Markin LSS 12-29-00
OTHER(S) PRESENT: _____

FILE # 4495 B

COMMENTS Probably not 100% Report

LANDSCAPE POSITION	GROUP	TEXTURE	.1955 LTAR
R-RIDGE	I	S-SAND	1.2-0.8
S-SHOULDER SLOPE		LS-LOAMY SAND	
L-LINEAR SLOPE			
FS-FOOT SLOPE	II	SL-SANDY LOAM	0.8-0.6
N-NOSE SLOPE		L-LOAM	
H-HEAD SLOPE			
CC-CONCLAVE SLOPE	III	SI-SILT	0.6-0.3
CV-CONVEX SLOPE		SICL-SILTY CLAY LOAM	
T-TERRACE		CL-CLAY LOAM	
FP-FLOOD PLAIN		SCL-SANDY CLAY LOAM	
	IV	SC-SANDY CLAY	0.4-0.1
		SIC-SILTY CLAY	
		O-ORGANIC	

CONSISTENCE	
MOIST	WET
VFR-VERY FRIABLE	NS-NON-STICKY
FR-FRIABLE	SS-SLIGHTLYSTICKY
FI-FIRM	S-STICKY
VFI-VERY FIRM	VS-VERY STICKY
EFI-EXTREMELY FIRM	NP-NON-PLASTIC
	SP-SLIGHTLYSTICKY
	P-PLASTIC
	VP-VERY PLASTIC

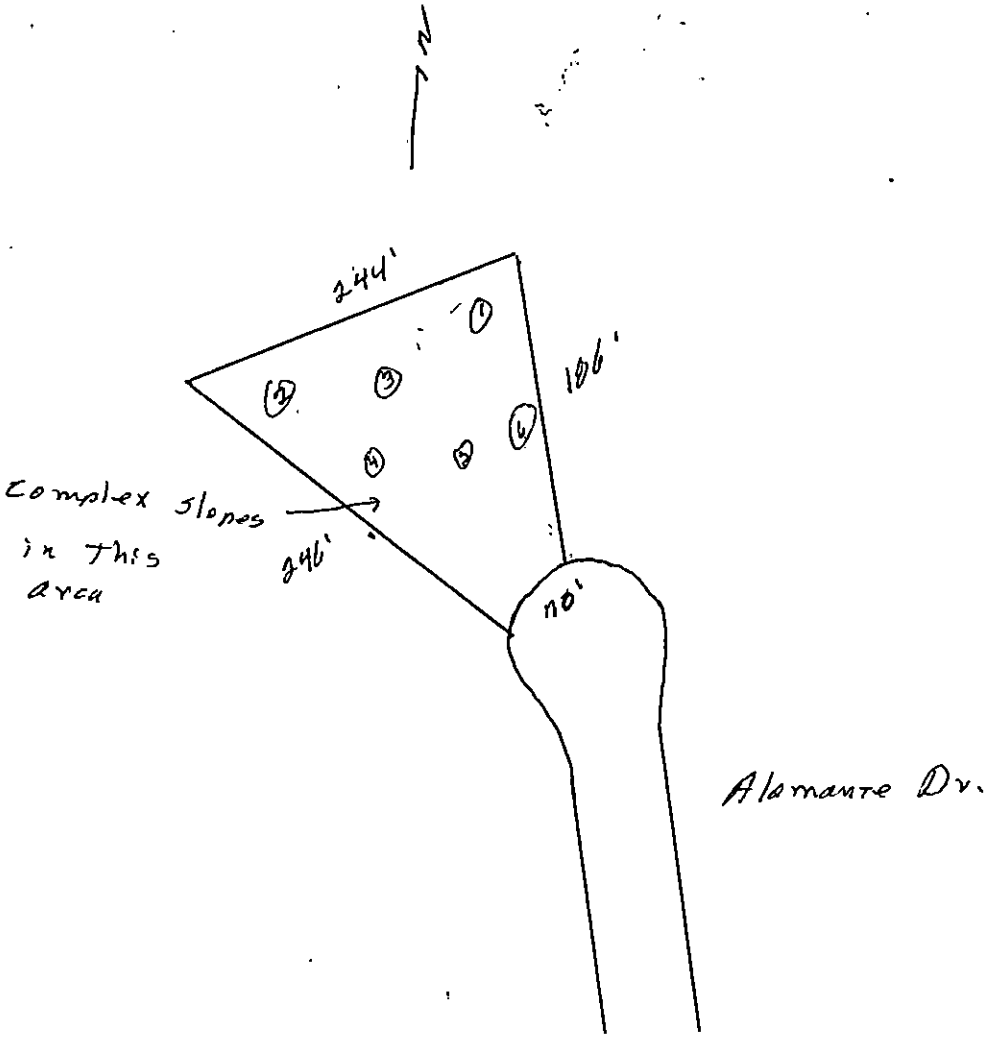
STRUCTURE

SG-SINGLE GRAIN
M-MASSIVE
CR-CRUMB
GR-GRANULAR
SBK-SUBANGULAR BLOCKY
ABK-ANGULAR BLOCKY
PL-PLATY
PR-PRISMATIC

MINERALOGY

SLIGHTLY EXPANSIVE

EXPANSIVE



FEE: $200- Rec'd Cell
DATE: 12-6-00

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

[ ] CRT

TYPE APPLICATION: ___ 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 #: 4495B

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 111-193-20

STREET ADDRESS: 7537- ALAMANCE Dr

SUBDIVISION OR MOBILE HOME PARK NAME:

LOT NUMBER: 20

TYPE OF BUILDING (CHECK ONE):

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

HEATED SQUARE FOOTAGE: 1500

NUMBER OF BEDROOMS: 3

NUMBER OF OCCUPANTS:

FOUNDATION FOR RESIDENCE:

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

TOWNSHIP (CHECK ONE):

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

CLOSING DATE_____

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

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:	LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:
NAME: MADDEN (LAST) EWELL (FIRST) C. (MI)	NAME: (LAST) (FIRST) (MI)
ADDRESS: 7536 ALAMANCE Dr	DAYTIME PHONE: ( ) —
CITY: CHARLOTTE STATE: N.C. ZIP: 28227	
DAYTIME PHONE: (704) 545-5588	

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 12-12-80

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: X Ewell C. Madden DATE: Dec 6 -2000

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

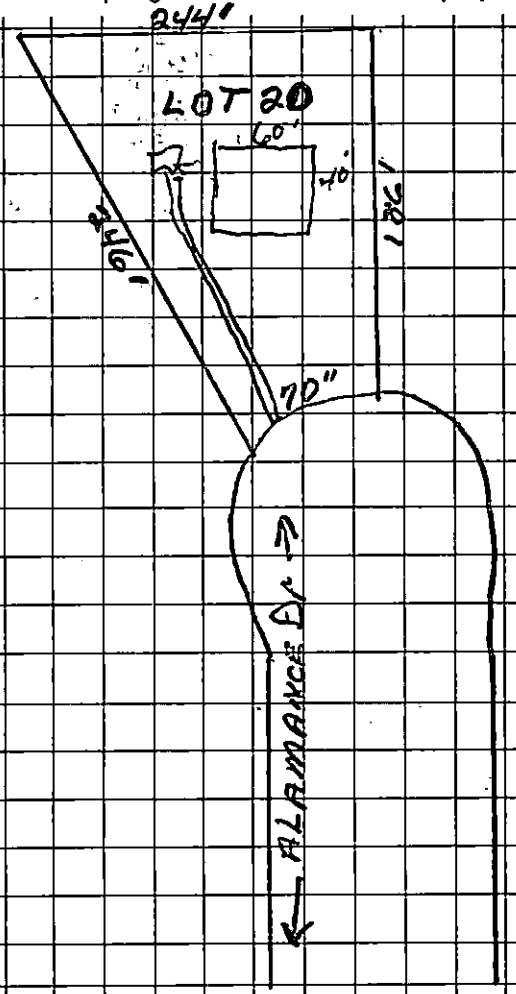
PROPOSED PLOT PLAN

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON STREET
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: 4495B

TC: 111-193-20

Draw in and name all roads adjoining the property. Draw in and accurately dimension the lot concerned. Accurately indicate property boundaries proposed and/or existing structures and driveways, underground utilities, and wells and springs within 100 feet of the proposed building or drainfield.



OWNER/AGENT SIGNATURE Farrell Cope Malden Jr

DATE Dec 4 2000

APPROVAL DATE _____

White - Health Department's Copy Canary - E.H.S. Copy Pink - Owner's Copy

Fees Due for
Auth. to Construct
Installation + Final

6/4/08
Gwen Craig

5/22/08

Sale of Property did not go
through Joyce is requesting
refund of $150 for Auth
To Construct
6/2/08
Process Refund per instructions
from Lisa Corbitt