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Groundwater and Wastewater Services File Imaging Project
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JUDITH A. GIBSON REGISTER OF DEEDS MECKLENBURG COUNTY

FOR REGISTRATION JUDITH A GIBSON REGISTER OF DEEDS MECKLENBURG COUNTY, NC 2000 AUG 31 02:47 PM 11542 PAGE 610-617 FEE $20.00 INSTRUMENT # 2000126877

COPY

STATE OF NORTH CAROLINA — SEPTIC TANK DRAIN FIELD EASEMENT AGREEMENT

COUNTY OF MECKLENBURG

This EASEMENT made this 29th day of August, 2000, by and between

GRANTOR	GRANTEE
Fletcher G. Keith and wife, Peggy Keith	Fletcher G. Keith and wife, Peggy G. Keith 4016 Triangle Drive Charlotte, NC 28208

Enter in appropriate block for each party: name, address, and, if appropriate, character of entity, e.g., corporation or partnership.

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee an easement as hereinafter described, to run with the land, upon that certain lot or parcel of land owned by Grantor and located in the City of N/A, Long Creek Township, Mecklenburg County, North Carolina, and more particularly described as follows:

Part of Mecklenburg Tax Parcel No. 023-252-33 as shown on a page of the County Tax Map attached hereto as Exhibit A

Lot 15 Block N/A of Mountain Point Estates recorded in Map Book 33 Page 747 (~~if applicable~~) of the Mecklenburg County, North Carolina Public Registry.

See a portion of the plat attached hereto as Exhibit B and the parcel shown thereon identified with Grantor's name for the legal description of Grantor's parcel and of the Septic Tank Drain Field Easement Area located thereon, said parcel labeled thereon and hereinafter referred to as the "Easement Parcel."

This instrument was prepared by: Griffin & Brunson, LLP

Mail after recording to: Griffin & Brunson, LLP, 301 South McDowell Street, Suite 907, Charlotte, NC 28204

This Septic Tank Drain Field Easement Agreement is being re-recorded in order to add language on page 2 regarding the paved driveway and to show the paved driveway on the map on Exhibit "B".

Griffin & Brunson, LLP

Grantor hereby imposes said easement for the benefit of Grantee as the present owner and for the benefit of future owners of the following lot or parcel of land, situated in the City of N/A, Long Creek Township, Mecklenburg County, North Carolina, and more particularly described as follows:

Mecklenburg Tax Parcel No. 023-252-33 as shown on a page of the County Tax Map attached hereto as Exhibit A

Lot 14 Block N/A of Maintain Point Estates recorded in Map Book 33 Page 747 (if applicable) of the Mecklenburg County, North Carolina Public Registry.

See the plat attached hereto as Exhibit B and the parcel shown thereon identified with Grantee's name for the legal description of Grantee's parcel, said parcel labeled thereon and hereinafter referred to as the "Benefitted Parcel."

Said Easement shall enable the Grantee to place, if, as and when needed, such need to be determined by the Grantee in his sole discretion, a septic tank and drain field or portions thereof, upon the Septic Tank Drain Field Easement Area on the Easement Parcel and to inspect, maintain, repair and replace the components of said septic tank and drain field at any time and from time to time. If the Easement Area also includes a connector strip for ingress and egress, Grantee shall have the right to use said connector strip for access as needed.

** Grantor has a paved drive in place that may be maintained and remain in place for ingress and egress over said easement to Lot 15. This drive is shown on Exhibit

This Easement may not be altered, amended or cancelled without the express written permission of the Mecklenburg County Health Department, which written permission must be part of any document recorded to alter, amend or cancel this Easement. This Easement shall automatically expire, however, should Grantee ever hook up the structure located or to be located on the Benefitted Parcel to a public or community sanitary sewage system but shall otherwise be perpetual.

Grantor acknowledges that the Septic Tank Drain Field Easement Area cannot be used and will not be used for any of the following activities or in any of the following ways:

- Grading or filling
- Parking or driving heavy equipment in the area or in any other way compacting the soil in the Area
- Excavating soil from the Area
- Placing footings or foundations or engaging in any other construction activity in the Area
- Placing in-ground or above-ground swimming pools in the Area
- Placing irrigation systems in the Area
- Placing underground utility lines or cables in the Area
- Planting trees or gardens in the Area
- Removing any large trees in the Area unless dead or diseased
- Using the area for the burial of stumps, trash, or any other type of construction material
- Using the Area for gravesites

Diverting the natural flow of water onto the Area by way of drainage ditches or diversion ditches or using the Area to receive water from any gutter or downspout discharges

IN WITNESS WHEREOF, the Grantor and Grantee have hereunto set their hands and seals, or if corporate, have caused this instrument to be signed in their corporate names by their duly authorized officers and their seals to be hereunto affixed by authority of their Boards of Directors, the day and year first above written.

GRANTOR

Fletcher G. Keith (SEAL)

(Corporate Name)

Peggy Keith (SEAL)

BY: _____ President

(SEAL)

ATTEST:

(SEAL)

_____ Secretary (Corporate Seal)

SEAL-STAMP

North Carolina, Mecklenburg County

I, Susan Spence, a Notary Public of the County and State aforesaid, certify that Fletcher G. Keith and Peggy Keith, Grantor, personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and official stamp or seal, this 29 day of August, ~~19~~ 2000.

SUSAN SPENCE NOTARY PUBLIC MECKLENBURG COUNTY NC

My Commission Expires: 3/9/03

Susan Spence (Notary Public)

SEAL-STAMP North Carolina, _____ County

I, _____, a Notary Public of the County and State aforesaid, certify that _____ personally came before me this day and acknowledged that _he is _____ Secretary of _____, a corporation, and that by authority duly given and as the act of the corporation, the foregoing instrument was signed in its name by its _____ President, sealed with its corporate seal and attested by _____ as its _____ Secretary. Witness my hand and official stamp or seal, this ____ day of _____, 19__.

My Commission Expires: _____ _____ Notary Public

GRANTEE

_____ (SEAL)
Fletcher G. Keith

_____ (SEAL)
Peggy Keith

_____ (SEAL)

_____ (SEAL)

_____ (Corporate Name)

BY: _____ President

ATTEST:

_____ Secretary (Corporate Seal)

SEAL-STAMP North Carolina, Mecklenburg County

I, Susan Spence, a Notary Public of the County and State aforesaid, certify that Fletcher G. Keith and Peggy Keith, Grantee, personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and official stamp or seal, this 29 day of August, 2000.

My Commission Expires: 3/9/03 Susan Spence (Notary Public)

SUSAN SPENCE NOTARY PUBLIC MECKLENBURG COUNTY, NC

SEAL-STAMP North Carolina, _____ County

I, _____, a Notary Public of the County and State aforesaid, certify that _____ personally came before me this day and acknowledged that he is _____ Secretary of _____, a corporation, and that by authority duly given and as the act of the corporation, the foregoing instrument was signed in its name by its _____ President, sealed with its corporate seal and attested by _____ as its _____ Secretary. Witness my hand and official stamp or seal, this ____ day of _____, 19__.

My Commission Expires: _____
Notary Public

This document is not to be recorded until approved by the Mecklenburg County Health Department.

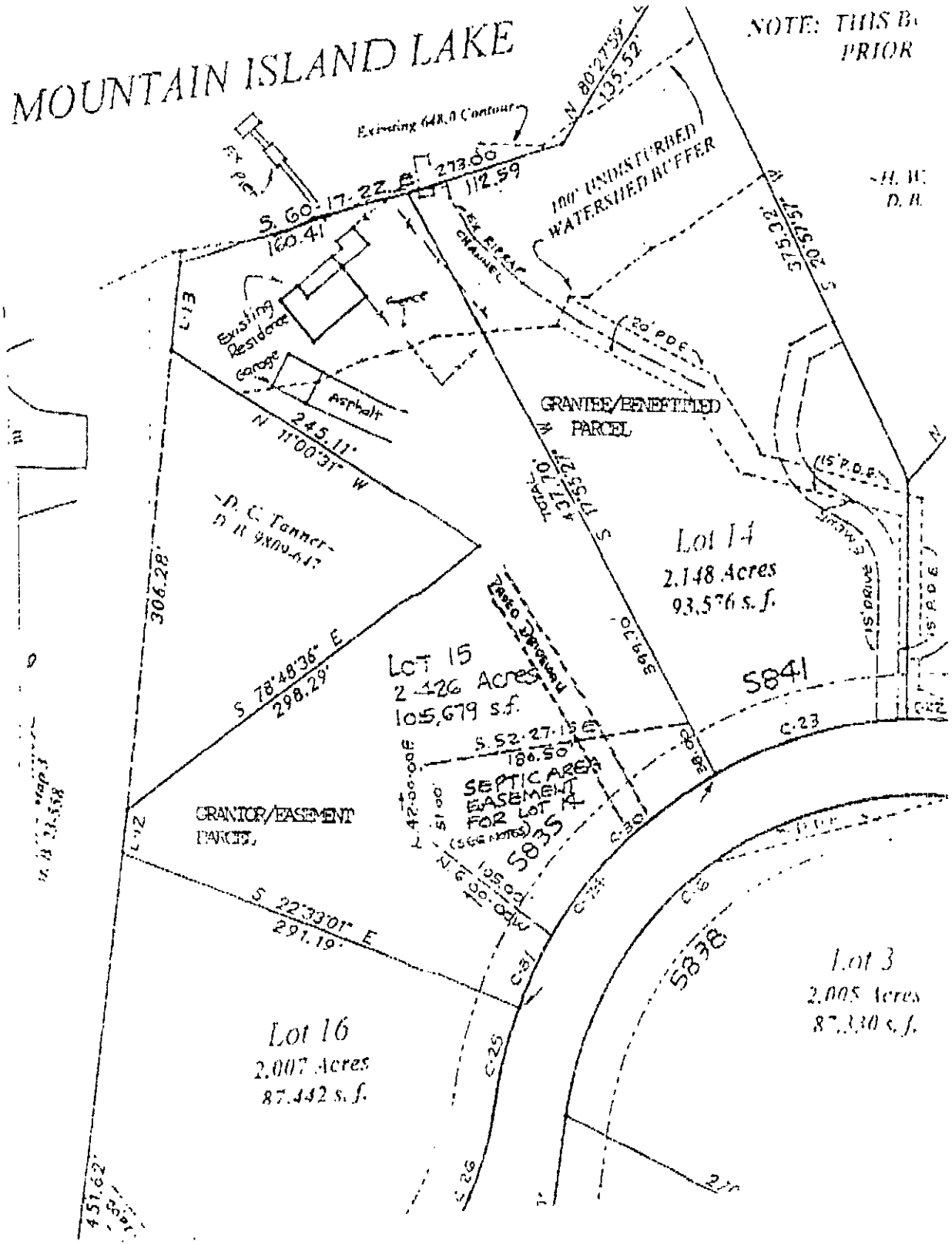
APPROVED AS TO THE SEPTIC REPAIR AREA REQUIREMENTS:

MECKLENBURG COUNTY HEALTH DEPARTMENT

BY: Kelly Randall DATE: 8-31-00

Kelly Randall
(print name)

Approval by the Mecklenburg County Health Department does not certify or extend to matters of title. The purchaser of property subject to or affected by this easement is responsible for ascertaining all matters affecting the validity and enforceability of this instrument.



Grantor: Fletcher G. Keith and wife, Peggy Keith
Grantee: Fletcher G. Keith and wife, Peggy Keith

THIS MAP IS NOT A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS.

EXHIBIT "B"

Now recorded in Map Book 33 at Page 747 of the Mecklenburg County, North Carolina Public Registry.

JUDITH A. GIBSON
REGISTER OF DEEDS , MECKLENBURG COUNTY
COUNTY & COURTS OFFICE BUILDING
720 EAST FOURTH STREET
CHARLOTTE NC 28202

Filed For Registration.	08/31/2000 02:47 PM
Book:	RE 11542 Page: 610-617
Document No.:	2000126677
	ESMT 8 PGS $20.00
Recorder:	STEPHANIE LINDSEY

State of North Carolina, County of Mecklenburg

The foregoing certificate of SUSAN SPENCE Notary is certified to be correct. This 31ST of August 2000

JUDITH A. GIBSON, REGISTER OF DEEDS By: Stephanie Lindsay
Deputy/Assistant Register of Deeds

2000126677

STATE OF NORTH CAROLINA

COUNTY OF MECKLENBURG

WASTEWATER TREATMENT AND DISPOSAL SYSTEM DESIGN AGREEMENT: 15A NCAC 18A .1948 AND ANY OF THE FOLLOWING RULES: .1956; .1957(a); .1957(b); or .1957(c); OR .1969

FILE # 3991-B
PARCEL # 023-252-33

Lot 19

The undersigned, _____, owner of property located at _____, (the "site") and described in an instrument recorded in Book _____ at Page _____, Mecklenburg Public Registry, hereby acknowledges that the undersigned applied to the Mecklenburg County Health Department (the "Department") for a permit to install a septic tank sewage disposal system on the site; that the Department evaluated the site for suitability for such a system in accordance with the regulations promulgated by the North Carolina Commission for Health Services as 15A NCAC 18A .1900 et seq.; that the Department originally classified the site as "unsuitable" pursuant to the standards set forth in the regulations; that the undersigned requested that the Department reclassify the site as "provisionally suitable" in light of the particular septic tank system proposed by the undersigned; that the Department considered various studies, data, and other information which indicate to the Department that the septic tank system proposed by the undersigned is allowed by the rules; and that the Department therefore reclassified the site as "provisionally suitable" and issued an appropriate permit for such proposed septic tank system.

The undersigned further acknowledges that the proper design, construction, operation and maintenance of such septic tank system is the responsibility of the designer, owner, developer, installer, or user of the system, as applicable, and that neither the Department nor its officials, employees, or agents warrant or guarantee that the said system installed pursuant to the permit issued by the Department will function in a satisfactory manner for any given period of time or that the Department, its officials, employees or agents assume any liability for any damages of any kind which are caused, or which may be caused, by a malfunction of such system.

The undersigned further acknowledges that the following conditions will apply to the site:

- Any changes on the property may make the Improvement Permit Null and void and may make the Improvement Permit subject to revocation.

This instrument was prepared by: _____
Mail after recording to: _____
_____

- Do not grade, cut, fill, pave, construct a building or deck, dig a well, install a swimming pool or otherwise cover or disturb the soil (except for planting and maintaining grass or other ground covers) in a manner which will adversely affect the repair area or area where the septic tank system is located.

- When a private certified operator is required, no improvement permit for the designated repair shall be issued unless there is a private certified operator to carry out this management program in the service area where the proposed system is to be located. (Refer to Rule .1961, "Maintenance of Sewage Systems," for further information.)

- Additional fees will be required according to the Mecklenburg County user fee schedule applicable at the time for the issuance of a repair permit for any subsequent repairs to the sewage treatment and disposal system or for installation of a replacement system.

- At the time repairs to the sewage treatment and disposal system are to be made or a replacement system installed, the regulations in effect at that time will govern the repairs or installation of a replacement system.

The undersigned further agrees for himself, his heirs and assigns that he shall indemnify and hold harmless the Department, its employees, and officials, as well as Mecklenburg County and its employees and officials, for any damages or other claims of any person or persons whatsoever arising out of the installation, operation, or failure of said septic tank system.

Use of the singular masculine pronoun forms herein shall be deemed to also include the plural and feminine forms as the context may require.

This document shall be placed on the public records of the Register of Deeds of Mecklenburg County and indexed therein under the Grantor Index in the name or names of the undersigned, and the foregoing acknowledgements shall henceforth be binding on all persons claiming any right, title, or interest in the site.

IN WITNESS WHEREOF, the undersigned has hereunto set his hand and seal, or if corporate, has caused this instrument to be signed in its corporate name by its duly authorized officers and its seal to be hereunto affixed by authority of its Board of Directors, this _____ day of _____, 199__.

_____ _____ (SEAL)
(Corporate Name)

_____ (SEAL)

By: _____ _____ (SEAL)

_____ President _____ (SEAL)

ATTEST:

_____

_____ Secretary

(Corporate Seal)

STATE OF NORTH CAROLINA
COUNTY OF _____

I, _____, a Notary Public for said County and State, do hereby certify that _____ personally appeared before me this date and acknowledged the due execution of the foregoing instrument.

WITNESS my hand and notarial seal, this _____ day of _____, 199__.

_____
Notary Public

My Commission Expires:
_____

STATE OF NORTH CAROLINA
COUNTY OF _____

I, _____, a Notary Public for said County and State, do hereby certify that _____ personally came before me this day and acknowledged that _he is _____ Secretary of _____ _____, a North Carolina corporation, and that by authority duly given and as the act and deed of said corporation, the foregoing instrument was signed in its name by its _____ President, sealed with its corporate seal and attested by _____ as its _____ Secretary.

WITNESS my hand and notarial seal, this _____ day of _____, 199__.

_____
Notary Public

My Commission Expires:

_____

Permit Number 3991-B

Tax Number 023-252-33

The 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.

Basement	___ Yes	✓ No	___ Partial Basement	
Type Primary Wastewater System Type (circle one): 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: ___ IWWS-93-1 ✓ IWWS-93-2 ___ IWWS-94-1	
.3 Long-term acceptance rate	480 Max gallons/day wastewater flow	1200 Absorption Area (sq ft)	9 Trench spacing (min. on centers)	
~~no~~ Serviced by private well	1500 Gallon septic tank	400 Total trench length (ft)	30" Maximum trench depth (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions)	
4 Bedrooms in residence	1000 Gallon pump tank	N/A Depth of stone		
Any surface waters present:	Type:	Minimum separation distance:		
Site modifications required:				
Additional Conditions: - Install w/ plan on p-6 - agreement form must be executed and recorded prior to installation approval				
Repair Area System Type Type (circle one): I II (II) IV V VI	___ Conventional ___ Prefabricated, permeable block panel system ___ Shallow Placed Conventional	___ Low Pressure Pipe ___ Large Diameter Pipe ___ Fill ___ Other	___ Innovative or Experimental: (✓) IWWS-93-1 ✓ IWWS-93-2 ___ IWWS-94-1	
200 Absorption Area (Sq ft) 400 Total Trench Length (Ft)	N/A Depth of Stone Trench	9 Trench spacing (min. on centers)	20" Maximum Trench Depth	
For existing system, enter the year originally installed:				

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department has approved the Request for the Job Location contained in this document. This 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.

Kelly Hill 9-2-00
DEHNR Authorized Agent Date

Tony C. Jones, OPSS 8/31/00
Owner/Agent Signature Date

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

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

FEE: _____ **AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION**
DATE: _____ **VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE**

DATE: 9-9-00 PERMIT NO: 3991-B
PARCEL NO: 023-252-33

JOB LOCATION ADDRESS: Mountain Point Lane
PROPERTY OWNER: F G Keith
BUILDING CONTRACTOR: _____
SUBDIVISION NAME: Mountain Point Estates
AUTHORIZATION ISSUED BY: Will Rundell DATE: 9-9-00
DEHNR AUTHORIZED AGENT

AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NO. 3991-B, 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 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 AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. OTHER CONDITIONS: - Install with plan on file
- agreement forms must be executed and recorded prior to installation approval
-

OWNER CERTIFICATION

I CERTIFY THAT THERE HAVE BEEN NO ALTERATIONS IN SITE OR SOIL CONDITIONS OR MODIFICATIONS TO FACILITY, WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS FROM THOSE SPECIFIED IN THE ORIGINAL APPLICATION OR ASSOCIATED IMPROVEMENT PERMIT UNLESS AUTHORIZED IN WRITING BY THE MECKLENBURG COUNTY HEALTH DEPARTMENT. I ALSO UNDERSTAND THAT ANY SUCH ALTERATIONS, MODIFICATIONS, OR FALSE INFORMATION ARE GROUNDS FOR REVOCATION OF PERMITS AND AUTHORIZATION TO CONSTRUCT.

Terry C. Parker CPSS 8/31/00
SIGNATURE OF OWNER/OWNER'S REPRESENTATIVE DATE

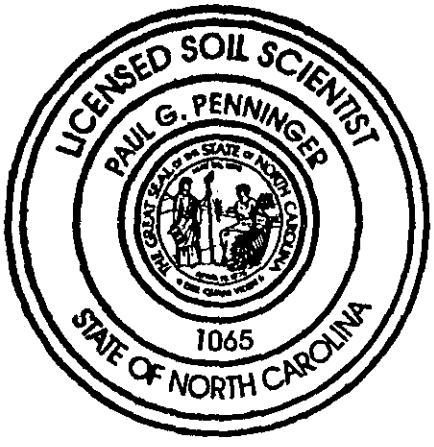
RESIDENTIAL INFILTRATOR CHAMBER SEPTIC SYSTEM WITH PRESSURE MANIFOLD DISTRIBUTION FOR SUBSURFACE WASTEWATER DISPOSAL LOT 14 MOUNTAIN VIEW ESTATES

MCHD FILE # 3991B

Prepared for:
Mr. F. G. Keith
5344 Central Avenue
Charlotte, North Carolina 28212

Prepared by:
Toney C. Jacobs & Associates, Inc.
168 Broadbill Drive
Mooresville, North Carolina 28117
office (704) 663-6905
fax (704) 662-9845
E-mail jacobs@i-america.net

August 3, 2000



Copy: Mr. Kelly Randall
MCHD-IWWS
700 N. Tyron Street
Charlotte, NC 28202

Paul G. Penninger, LSS

BACKGROUND

Lot 14 Mountain Point Estates was originally evaluated by Mr. Bill Marlin of the Mecklenburg County Health Department (MCHD) on July 29, 1999. Mr. Marlin classified the lot as unsuitable for a 4-bedroom house due to poor soil and available space. Toney C. Jacobs & Associates, Inc. performed a soil evaluation on the front of the lot on July 17, 2000 and found provisionally suitable soil in this area, but concluded there was not adequate available space for a 4-bedroom system and the required 100% repair. There was a 15' drive easement on the right of the lot, a storm drain and associated complex topography bisecting the lot, and another old drive crossing the middle of the lot. A power line for the irrigation pump was also trenched in off the left property line which reduced the useable system area.

The owner agreed to grant lot 14 an easement to use a portion of lot 15 to obtain a permittable 4-bedroom system and repair. The easement has been surveyed as shown on the attached site plan and will be recorded on the final plat.

On July 25, 2000 Mr. Marlin reviewed the soils on the proposed system and easement area on lot 15. We agreed the soils were provisionally suitable at 0.3 gpd/ft^2 LTAR. Toney C. Jacobs & Associates flagged the system and 100% repair on July 25.

We are recommending 400 linear feet of Infiltrator chambers on the easement area for the primary system and a chambered or panel block repair on the front of lot 14. There is an irrigation line on the 14-15 lot line. Any part of the system should be at least 10' from this water line. The 2" septic supply line can cross the irrigation line if the septic supply line is at least 18" below the irrigation line.

APPLICATION INFORMATION

1. Owner:

   Mr. F. G. Keith
   5344 Central Avenue
   Charlotte, NC 28212

   Soil Scientists and Designers:

   Mr. Paul Penninger, LSS
   Toney C. Jacobs & Associates, Inc.
   168 Broadbill Drive
   Mooresville, NC 28117
   (704) 663-6905 (Office)
   (704) 662-9845 (fax)
   E-mail jacobs@i-america.net

2. Water supply is provided by a private well.
3. Facility to be served by the proposed system is a 4-bedroom single family residence.

LOCATION

The property is located off Mountain Point Lane. Lot 14 is the fifth lot on the left from the cul-de-sac.

REFERENCES

Law and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A, Section .1900, Department of Environment Health and Natural Resources, August 1, 1998.

PLANS AND SPECIFICATIONS FOR SPECIFIC SYSTEM COMPONENTS

Septic Tank

1. The septic tank receives wastewater directly from the house.
2. A septic tank shall be watertight, structurally sound, and not subject to excessive corrosion or decay.
3. The septic tank must be of two-compartment design for maximum solids and retention. The inlet compartment of two-compartment tank shall hold between two-thirds and three-fourths of the total tank capacity.
4. Effluent from the two-compartment septic tank flows by gravity through a State approved effluent filter and a four-inch solid PVC pipe to the pumping tank.
5. Both the septic tank and pumping tank must be provided with above ground approved manhole risers to provide easy access for clean-out and pump service.
6. When prefabricated concrete tanks or tanks of other material are used, they shall be constructed in accordance with the plans which have been approved by the State and shall comply with all requirements of Section .1953 of 15A NCAC 18A.
7. On the outlet tee of the septic tank an effluent filter must be installed. This filter should be equivalent to a Zabel Model A1800 or other State approved unit supplied by the tank manufacturer.

Pumping Tank

1. The pumping tank shall have an access manhole extending at least 6 inches above finished grade.
2. A septic tank effluent pump that will not be corroded by sewage shall be used in the pumping tank.
3. The pump must be placed on two concrete blocks set next to each other on the bottom of the tank. This prevents the pumping of any solid particles that can clog the system.
4. A piece of nylon rope or other non-corrodible material should be attached to the pump and to the outlet pipe for lifting the pump in and out of the chamber.
5. The lower level control or "pump-off" must be positioned above the pump, so that the pump remains submerged at all time.
6. The pump outlet pipe should be connected to the supply manifold with a threaded PVC union to allow quick removal
7. Pump and Simplex control circuits shall be provided with manual circuit disconnects within a watertight, corrosion-resistant, outside enclosure (NEMA 4X or equivalent)

adjacent to the pump tank, securely mounted at least 12 inches above finished grade. Pump control (Simplex) may be mounted on side of house if long cord pump is used. The pump shall be manually operable without requiring the use of special tools or entrance into the tank for testing purposes. Conductors shall be conveyed to the disconnect enclosure through water proof, gas proof, and corrosion-resistant conduits, with no splices or junction boxes provided inside the tank. Wire grips, duct seal or other suitable material shall be used to seal around wire and wire conduit openings inside the pump tank and disconnect enclosure. There shall be two electric circuits for controls: one for pump power, one for the alarm. These will require 2 circuit breakers.

8. The pump tank shall have a properly functioning high-water alarm. The alarm circuit shall be supplied ahead of any pump overload and short circuit protective devices. It should be on a separate electrical circuit from the pump power line. The alarm shall be audible and visible by system users and included in the pump and control enclosure (Simplex Panel). The alarm is activated if the water level in the pump tank rises above the "pump-on" float control. The tank provides at least one day or more of excess storage capacity (depending on water use in the home) during which time the system must be repaired.
9. Float switch for the high water alarm shall be set no more than 3 inches above the high water level of pump cycle.
10. Float switch tie downs to be made of corrosion resistant material, no tape or metal hose clamps. For maintenance flexibility, tree must be used to set floats.
11. Watertight testing per .1900 rules shall be required on two piece pump tanks.
12. Wiring between the pumping tank and the house should meet State and local code requirements.

Pipe and Fittings

1. All pipes and fitting should be made of SCH 40 PVC.
2. All joints must be sealed with appropriate PVC-solvent cement.
3. There should be a threaded PVC union above the pump to allow easy removal or replacement.
4. A gate valve for final pressure adjustment is installed in the supply line inside the pumping tank.
5. Manifold and valve as shown in specifications.

CONSTRUCTION INSTALLATION

Site Preparation

1. One of the most important concerns for an on-site system is to protect the site from soil disturbance by heavy equipment.
2. Now that the absorption area has been designed and flagged, it should be roped off and protected from construction traffic. No site preparation or construction work should occur if the soil is wet.
3. After the soil is dry enough, the site should be cleared of brush and small trees.

4. Provisions must be made for intercepting or diverting surface water away from the absorption area.

5. After the area has been cleared and shaped, the location of the lateral lines and supply manifold should be accurately re-flagged according to design specifications. Each lateral line must be laid out along a level contour using a transit. This step can be completely avoided if flags are protected during clearing.

Tank Installation

1. The two-compartment septic tank is installed.
2. The pumping tank is installed next to the septic tank.
3. The tanks are connected with an appropriate length of solid, four-inch PVC pipe.

Supply Manifold

1. The supply manifold conveys effluent from the pump to the distribution laterals.
2. Design of the pressure manifold is shown on attached diagram.
3. After the supply manifold has been placed in its trench and lateral lines connected, it should be backfilled with tightly tamped soil. The supply manifold trench must not be backfilled with gravel, or the trench may become a conduit for downslope flow effluent from the laterals.

Lateral Lines

1. Install trenches per cited reference material and this plan.
2. Trenches shall be 24-36" deep, 36" wide, and 9' minimum on center. Trenches shall be "level" from end to end.
3. Infiltrator chambers shall be used.
4. Sand backfill shall be placed over the vents on the side of the chambers.
5. A minimum of 12" of cover shall be placed over the chambers.

PROPER OPERATION CHECK AND PRESSURE HEAD ADJUSTMENT

1. After all connections have been installed and connected, the system should be checked for proper operation. With electrical power turned off, fill the pump tank with a garden hose until the liquid rises to the level of the high-water alarm float.
2. Turn on the electrical power. The alarm light should go off when the liquid level falls below the high-water float. The pump should turn off when the liquid reaches the lowest float control. Be sure the pump is still completely submerged.
3. The pressure head is measured as the height liquid will rise above the pressure manifold when the pump is running. To set or check the pressure head:

- Glue a three-foot length of pipe (preferable clear) to a threaded adapter that will screw into the pressure manifold.
- Turn the power on to allow liquid to rise in the pipe.
- Adjust the gate valve until the effluent reaches the desired height in the pipe.

FINAL LANDSCAPING

1. After the system is installed, the following should be checked to ensure that the system will not be overloaded with excess rainwater and runoff:
   - The distribution field is shaped to shed rainwater and is free of low areas.
   - Grassy swales or ditches for diverting surface water are properly installed.
   - Gutter and downspout drains are directed away from the system.

2. Finally, the entire area should be planted with grass in order to prevent erosion. The soil should be properly tilled, limed (if necessary) and fertilized before planting. After applying an appropriate grass seed, the area should be heavily mulched with straw or other suitable material.

QUALITY ASSURANCE REQUIREMENTS

The system must be installed by a qualified, contractor that is on the Mecklenburg County list of competent contractors. Critical stages of the installation, which should be checked, are:

1. System layout
2. Septic and pump tank installation prior to backfilling.
3. Manifold and lateral installation prior to backfilling.
4. Final landscaping, operation and pressure head check.

The system design is based on a maximum waste flow of 480 gallons per day. Homeowners should pay particular attention to the section titled Homeowner Suggestions for ways to minimize the burden on the system.

OPERATION AND MAINTENANCE PROCEDURE

The system is classified as Type III and does not require a maintenance contract with a certified operator. The following are operating, maintenance and inspection procedures the homeowner should follow.

- Septic system shall be pumped every 4 years or when solids accumulate to 1/3 the volume of the tank.
- At 6 month intervals inspect the effluent filter. When washing the filter, debris must be sprayed directly back into the septic tank and not onto the lawn.
- Pressure head at manifold should be checked and adjusted one month after installation and annually thereafter.
- All piping and fittings shall be checked annually for damage and/or proper operation and corrections made immediately.

- The property should be inspected to insure all surface water is diverted away from the fields and tank. Any ponding of surface water should be corrected.
- Grasses shall be mowed and maintained and any erosion shall be corrected promptly.
- The nitrification field area shall be checked for leakages, blowouts or malfunction, indications of damp or mushy areas compared to surrounding area or evidence of noticeable odor of sewage. Repairs shall be made immediately.
- The pump electrical should be checked to insure tight, clean connections with no corrosion and proper operation.
- Pump switches shall be checked for free operation and proper level set.
- Pump draw down depth and delivery rate shall be checked each year.
- Check septic tank and pump tank for evidence of damage or leakage. Check the quality of effluent including grease and sludge accumulation.

HOMEOWNER SUGGESTION

Most systems do not require much effort to operate and maintain. Even though the effort is small, the system must be maintained properly so that it operates reliably and at a minimum cost. Following are suggestions for the homeowner to minimize the burden on the septic system.

1. Garbage disposals should not be used in on-site systems. The ground garbage adds large amounts of solids to a septic tank, causing sludge to build up at a quicker rate than without. If disposal is installed, use should be limited.
2. Grease, cooking oils and coffee grounds should never be put into a septic tank.
3. Items such as disposable diapers, cigarettes, facial tissues and other solid or paper wastes should not be flushed into the on-site system.
4. Used motor oil and other such oily liquids should not be put into a septic tank.
5. Using less water can reduce the amount of water flowing to the treatment and disposal field.
6. Water-saving fixtures and devices can be installed on sinks, toilets and showers to reduce the rate at which the water flows from the fixture.
7. Dishwashers and washing machines should only be run with full loads.
8. Leaky faucets and toilets can add large volumes of water to the daily flow of water into the on-site system. Repair the leaks to save water and give the treatment and disposal field a rest.
9. Roof drains, basement sump pumps, foundation drains, and other such drains should not empty into or onto the surface above the on-site system. These drains should be directed to another part of the lot away from the treatment and disposal field.

DESIGN SPECIFICATIONS

Lot 14 Mountain Point Estates

Daily design flow:	480 gpd.
Septic tank size:	1500 gal. (2 compartments)
Pumping tank size:	1500 gal.
Effluent loading rate:	0.3 gpd/ft^2
Total length and diameter of supply pipe:	app. 430' of 2" SCH 40 PVC
Number and length of laterals:	4 @100' long
Pressure Manifold:	4 taps at ½" (SCH 40 PVC)
Flow rate through the system:	28.5 gpm capability
Elevation head:	*Approx. 34'
Pressure head:	2.0'
Friction head:	10.0'
20% contingency	9.2'
Total head:	55.2'
Pump requirements:	28.5 gpm at 55.28' of head; use Myers ME75 ¾ hp pump or equivalent with compatible electrical
Dosing volume:	340 gal. – 1.4 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.)
Pump run per dose:	approx. 11.9 min
Check valve:	Yes
Siphon break hole:	No

* to be verified by installer

LAKE

NOTE:

Existing 648.0 Contour

Ex. Pipe

S. 60°17'22" E.
160.41'

273.60

112.59

N. 80°27'59" E.
135.52'

100' UNDISTURBED
WATERSHED BUFFER

Ex. Pipe Culvert

L-13

Existing Residence

Garage

Fence

Asphalt

N. 11°00'31" W.
245.11'

D. C. Tanner
D.B. 9899-457

Appx. Location of Power Line and Irrigation Pump

S. 78°48'36" E.
298.29'

IRRIGATION LINE ON T.L.

Lot 15
2.426 Acres
105,679 s.f.

S. 52°27'15" E.
160.50'

100' WHITE
100' RED
100' WHITE
100' BLUE

N. 42°00'00" E.
51.03'

N. 6°00'00" E.
84.12'

Lot 15 DRIVE

S. 37°55'10" W.
99.70'

EX. RIPRAP CHANNEL

Lot 14
2.148 Acres
93,570 s.f.

100' BLUE
100' RED
100' WHITE
100' WHITE

5841

5838

5839

C-23

C-22

C-24

C-31

C-25

C-26

C-6

C-9

C-10

L-10

20' P.D.E.

2" SCH 40 PVC

6² House

N. 17°55'52" W.
233.32'

N. 20°57'52" W.

EXISTING DRIVE

Potential Well Location

15' P.D.E.

Lot 14 Access

Lot 14 Drive

P.D.E.

Pressure Manifold
(See Diagram)

Lot 3
2.005 Acres
87,330 s.f.

N. 81°42'40" E.
316.73'

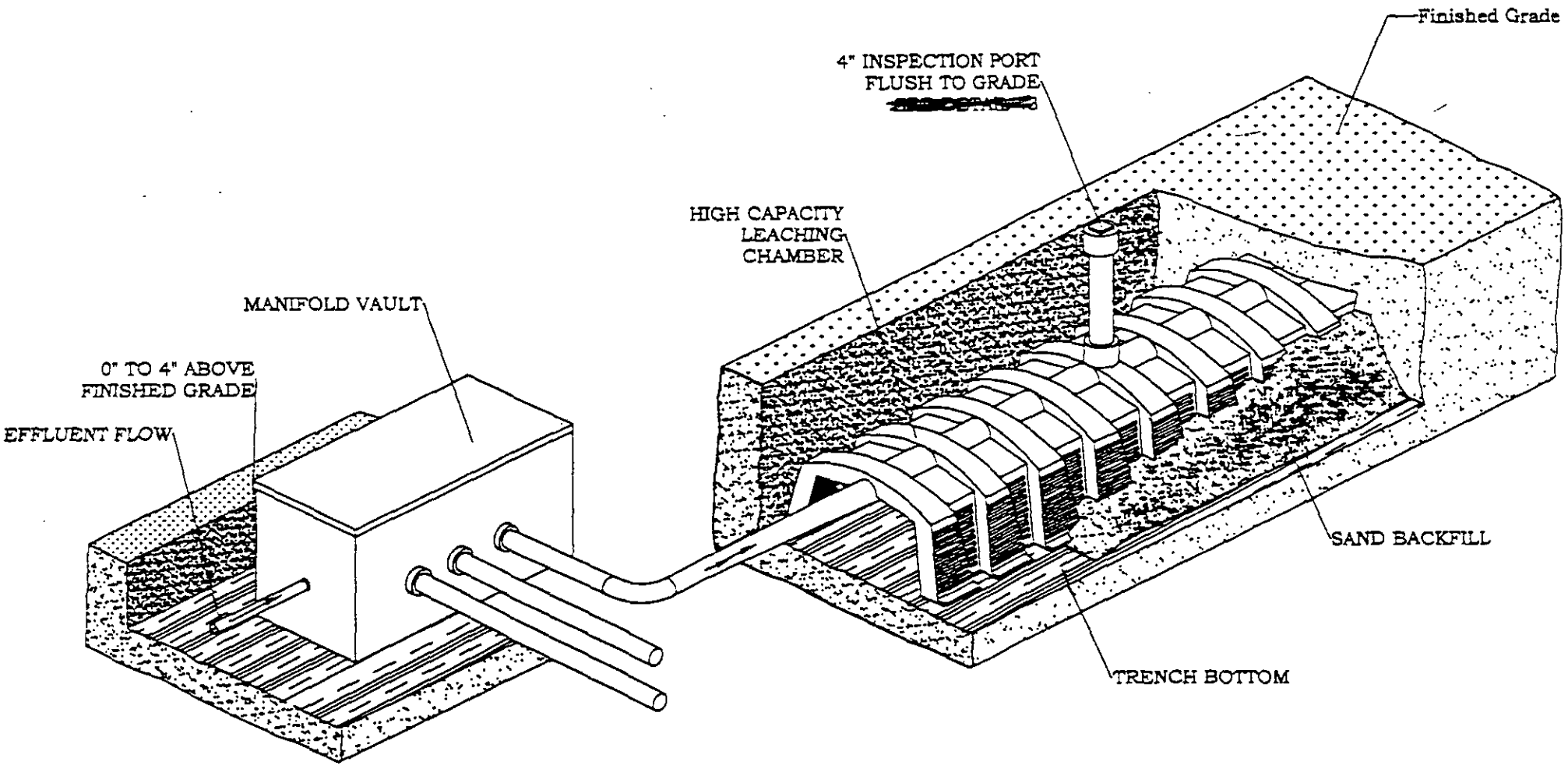
150.00'

270.48'

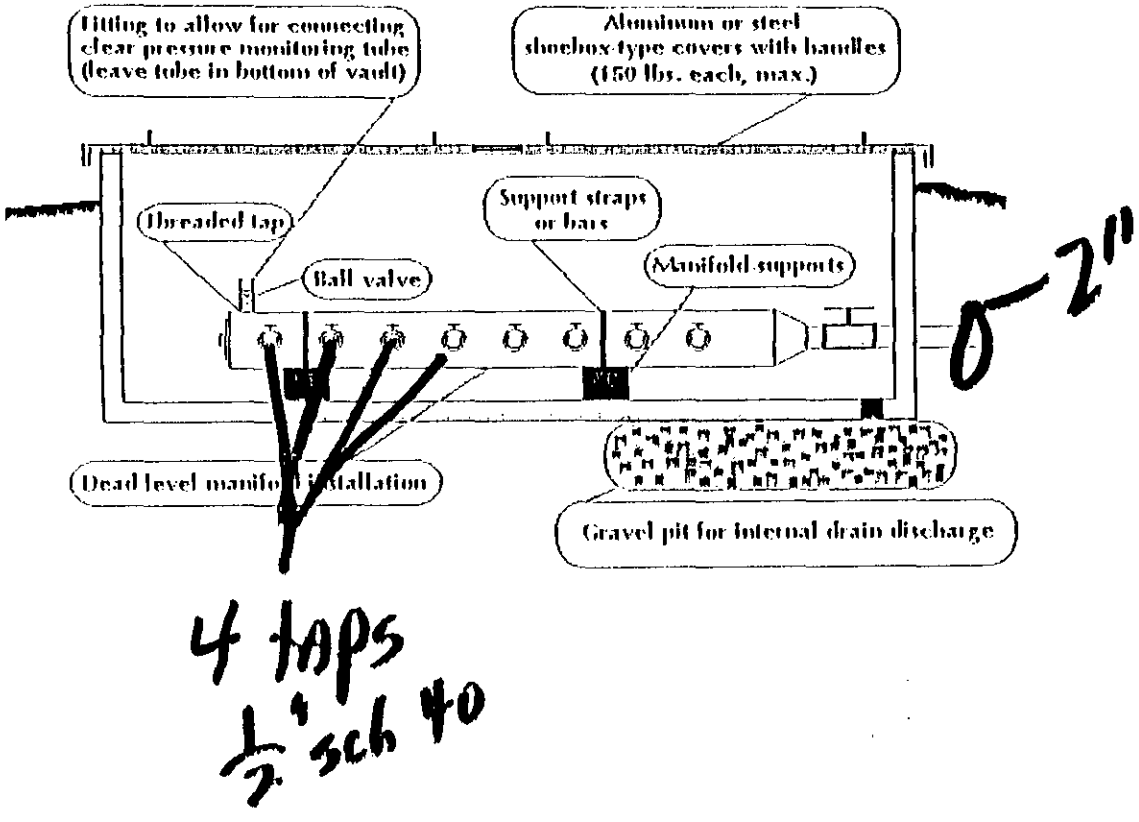
Lot 16
.07 Acres
742 s.f.

321

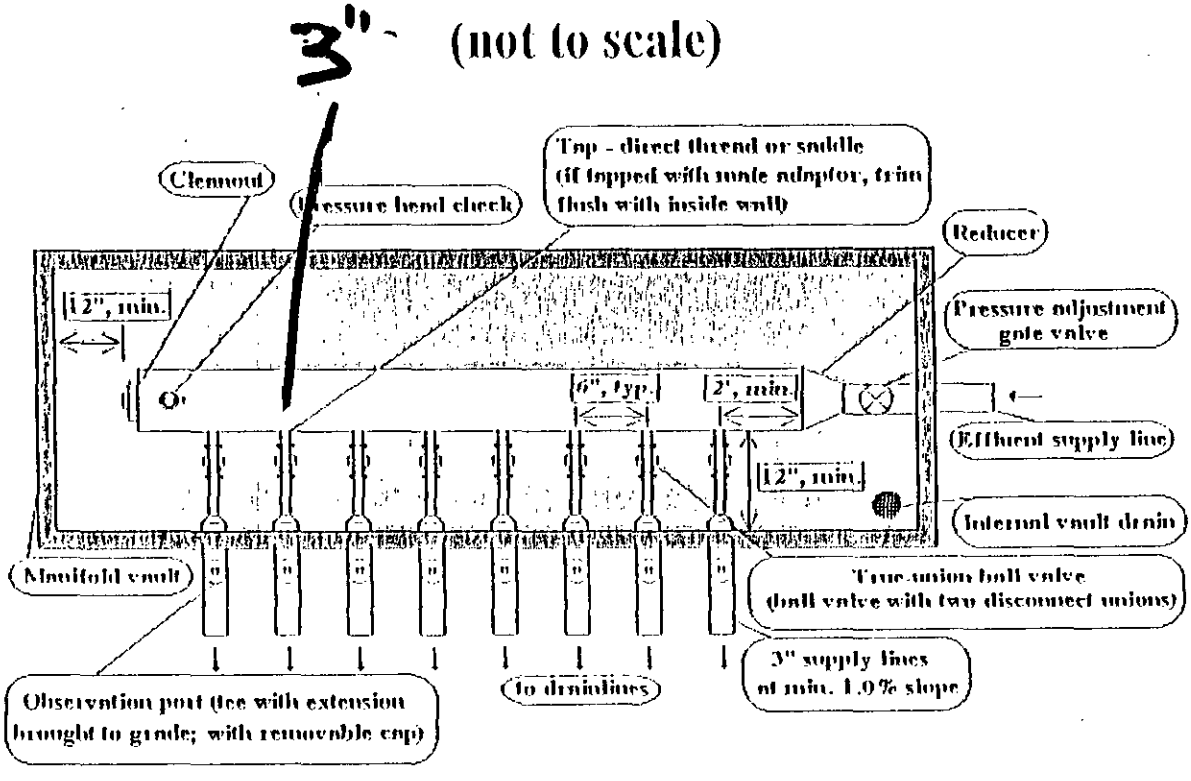
GRAVITY FED LEACHING CHAMBER
FED BY PRESSURE MANIFOLD
DETAIL 1.2A



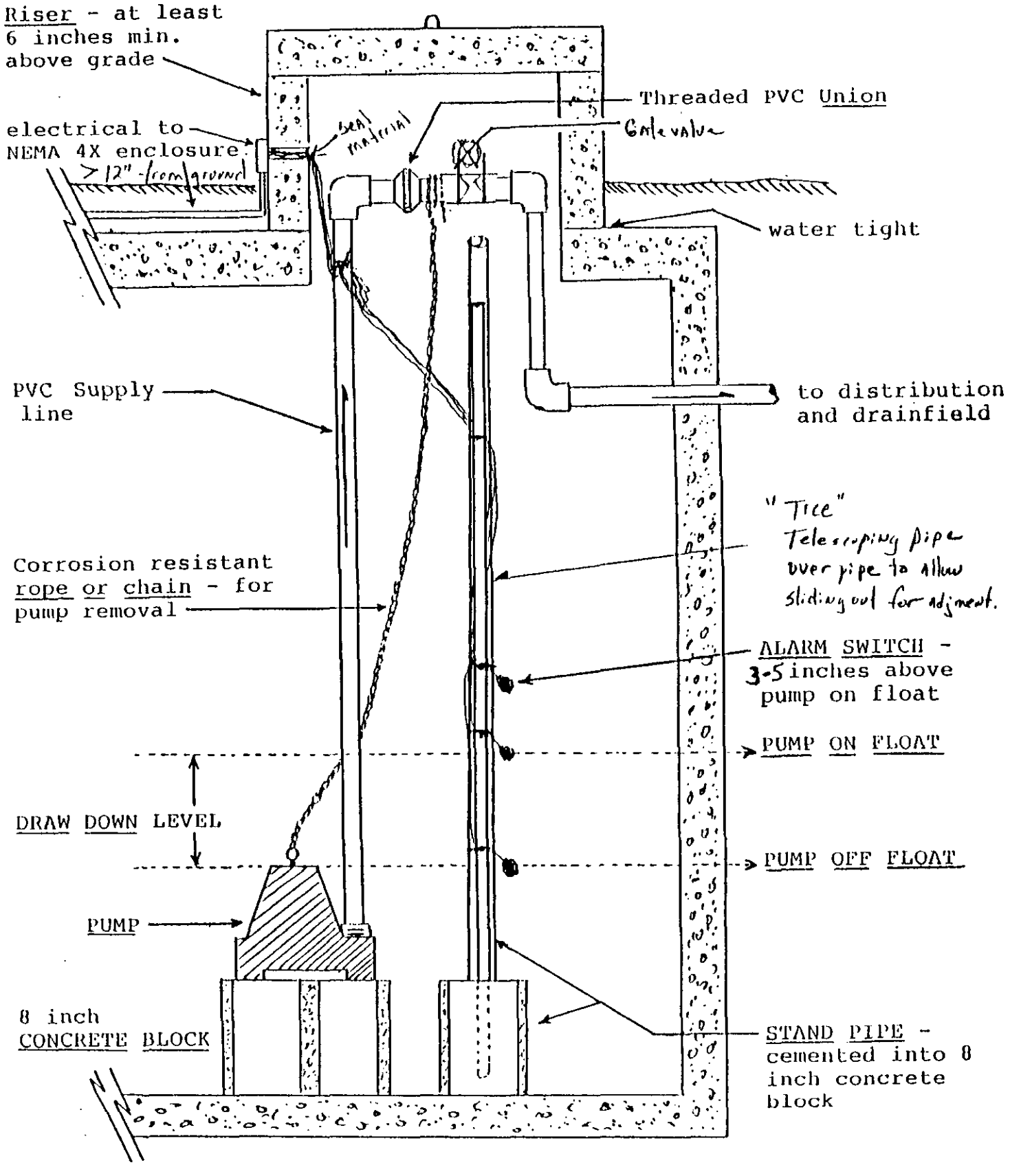
FROM THE POINT ON NORMAN
SEPTIC INFO
(TRI-COUNTY WASTEWATER mgt. 199[illegible]



Profile View of Pressure Manifold for Sloping Site Installation

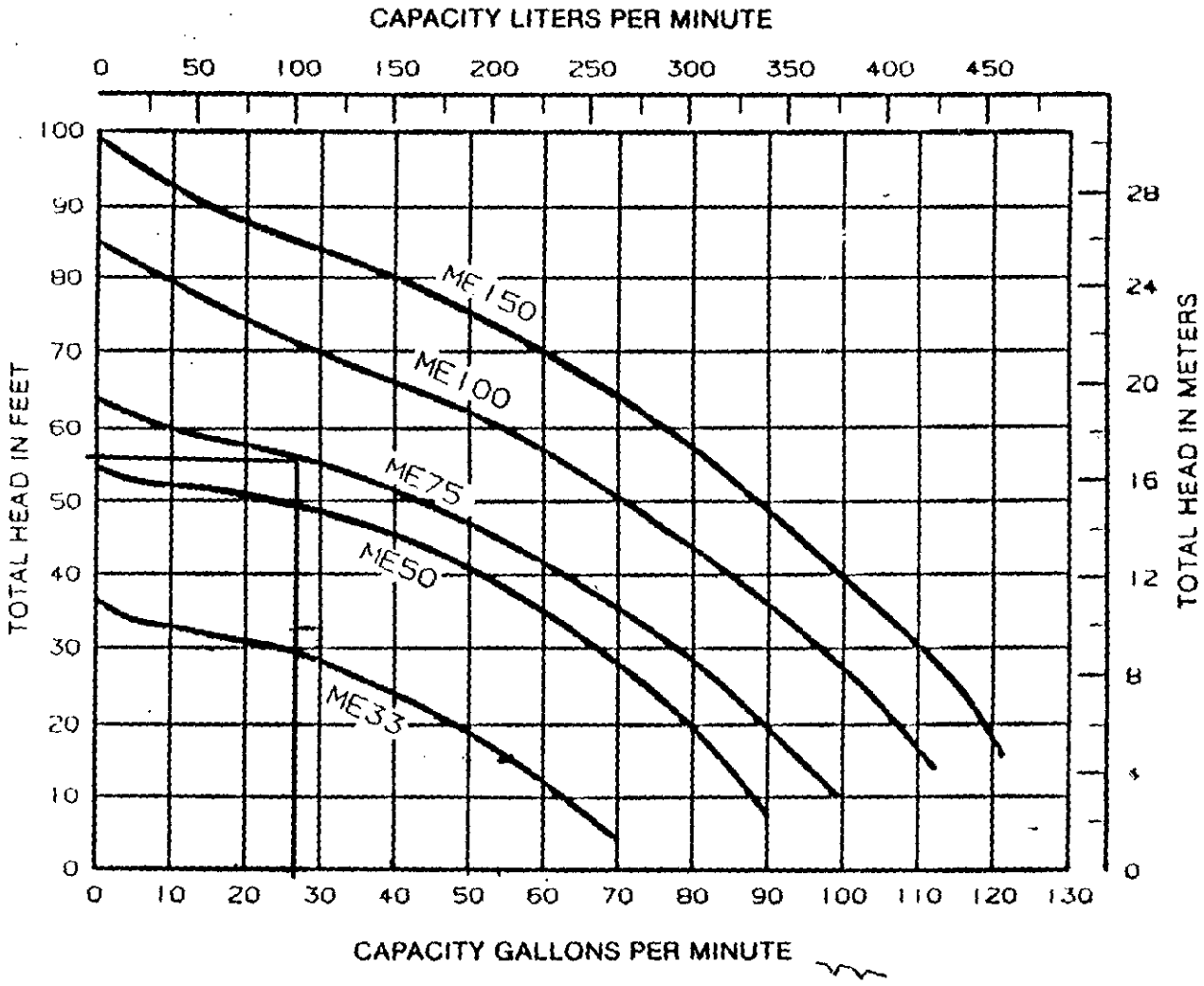


PUMP DIAGRAM



ME Series
1/3 through 1-1/2 HP
Effluent Pumps
Performance Curve

Myers



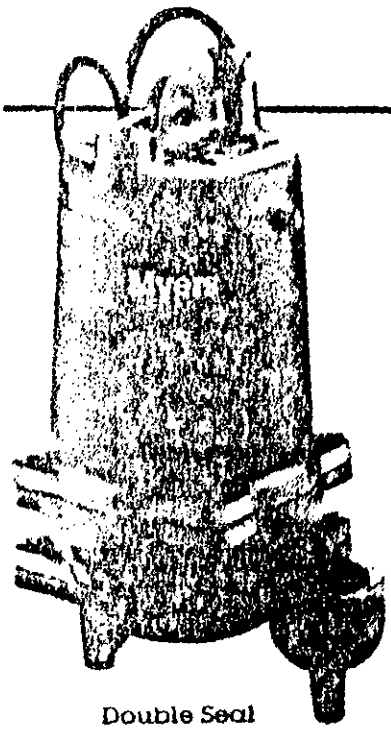
F.E. Myers, A Pentair Company • 1101 Myers Parkway, Ashland, Ohio 44805-1923
419/289-1144 FAX 419/289-6658 Telex 98-7443

K3327 7/91

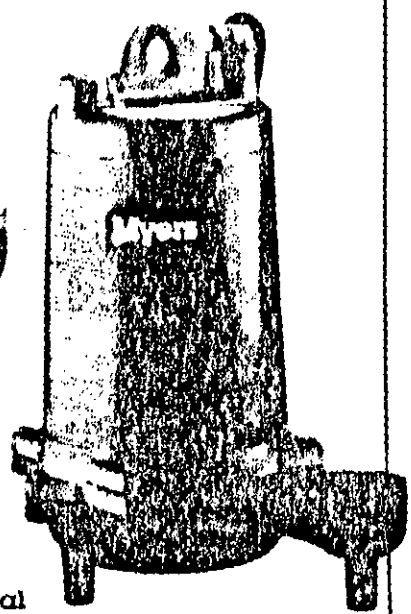
Printed in U.S.A.

ME SERIES

1/3 through 1-1/2 HP
Effluent Pumps



Double Seal



Single Seal

THE MYERS ME SERIES EFFLUENT PUMPS ARE DESIGNED SPECIFICALLY FOR TODAY'S EFFLUENT PRESSURE DISTRIBUTION MOUNDS, TRENCHES AND HIGH FLOW DRAINAGE APPLICATIONS. The ME Series effluent pumps with their efficient two vane, enclosed impellers provide the ideal performance for optimum dosing. ME Series pumps are constructed of only corrosion resistant materials like cast iron, stainless steel and thermoplastics to assure that they will perform for years to come in the harsh effluent environment and drainage applications. For more information, call your Myers distributor today or the Myers Ashland, Ohio sales office at 419/289-1144.

ADVANTAGES BY DESIGN

IDEAL FOR USE IN MOUND AND TRENCH PRESSURE DISTRIBUTION SYSTEMS

- High efficiency, two vane, enclosed impeller provides ideal performance for most efficient dosing.
- Impeller passes full ¾ inch solids.
- Enclosed impeller design eliminates possibility of jamming or corrosion between impeller and volute.

DURABLE MOTOR WILL DELIVER MANY YEARS OF RELIABLE SERVICE

- Oil-filled motor for maximum heat dissipation and constant bearing lubrication.
- High torque, permanent split capacitor (PSC), single phase motors. No starting switches or relays to wear out.
- Optional seal leak probe warns of seal leak condition. (Dual seal motors only.) Helps prevent costly motor damage.
- Motors have on winding current and temperature sensitive overload. (Single phase only.)

THE ME SERIES EFFLUENT PUMPS ARE DESIGNED FOR YEARS OF MAINTENANCE FREE OPERATION

- Volute seal ring is replaceable. Restores pump to original performance if wear should occur.
- Motor is held in place by 4 screws. Easily removed if service is ever needed.

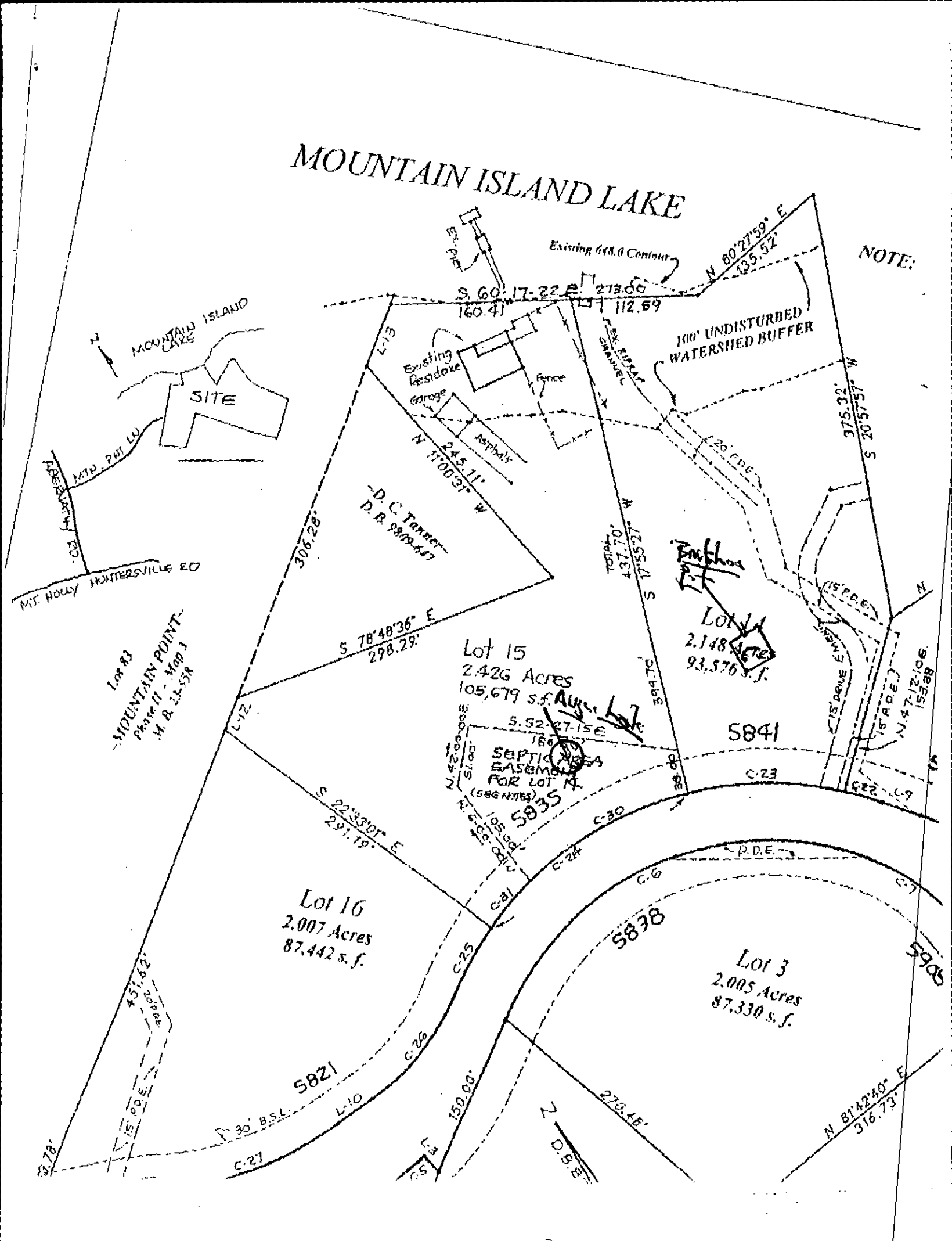
PRODUCT CAPABILITIES

Capacities To	120 GPM	454 LPM
Heads To	98 ft.	29.8 m
Max. Spherical Solids	¾ in.	19 mm
Liquids Handling	domestic effluent & drain water	
Intermittent Liquid Temp.	up to 140° F	up to 60° C
Motor Electrical Data	1/3 & 1/2 HP, 115 volts, 1 ph 1/3 to 1-1/2 HP, 230 volts, 1 ph 208, 230, 460, 575 volts, 3 ph oil-filled, permanent split capacitor type, 1 ph, 3450 rpm, 60 Hz	
Motor Insulation	Class B (130°C)	
Third Party Approvals	Pending	
Acceptable pH Range	6-9	
Specific Gravity	9-1.1	
Viscosity	28-35 SSU	
Discharge, NPT	2 in.	50.8 mm
Min. Sump Dia. Simplex Duplex	24 in. 36 in.	61 cm 91.4 cm

Construction Materials	
Motor Housing, Volute	cast iron, Class 30, ASTM A48-76
Enclosed Two Vane Impeller Standard Optional	engineered thermoplastic bronze
Impeller Wear Ring	304 SST
Volute Sealing Ring	Buna-N
Shaft	416 SST
Power Cord 1/3 & 1/2 HP, 1 Ph 3/4 - 1 1/2 HP, 1 Ph All 3 Ph	 20 ft. 16/3 SJOW/SJOW-A 20 ft. 14/3 SJOW/SJOW-A 20 ft. 14/4 SOW/SOW-A
Shaft Seals Standard Optional Opt. Lower	single carbon & ceramic tandem carbon & ceramic tungsten carbide
Fasteners	300 Series SST

WHERE INNOVATION MEETS TRADITION

Myers®


MOUNTAIN ISLAND LAKE
NOTE:
Existing 648.0 Contour
S. 60° 17' 22" E. 278.00'
160.41'
112.69'
N. 80° 27' 59" E.
135.52'
100' UNDISTURBED WATERSHED BUFFER
MOUNTAIN ISLAND CAVE
SITE
MTN. PNT. LN.
MT. HOLLY HUNTERSVILLE RD
Existing Residence
Garage
Fence
Asphalt
N 1° 00' 31" W
245.11'
D. C. Tanner
D.B. 5898, 647
306.28'
S 78° 48' 36" E.
298.29'
S 20° 57' 57" W
375.32'
TOTAL
437.70'
S 17° 55' 27" W
394.70'
20' P.D.E.
15' P.D.E.
Lot 14
2.148 Acres
93,576 s.f.
S841
Lot 15
2.426 Acres
105,679 s.f.
S. 52° 27' 15" E.
180.00'
N. 42° 00' 00" E.
51.00'
SEPTIC AREA EASEMENT FOR LOT 14 (SEE NOTES)
N. 47° 32' 45" W.
105.00'
S835
S 22° 33' 01" E.
291.79'
Lot 16
2.007 Acres
87,442 s.f.
S821
S878
Lot 3
2.005 Acres
87,330 s.f.
S908
30' B.S.L.
451.62'
200.00'
150.00'
270.48'
N 81° 42' 40" E.
316.73'
N 47° 12' 10" E.
153.88'
C-12
C-13
C-21
C-22
C-23
C-24
C-25
C-26
C-27
C-30
L-10
L-12
L-13
L-14
L-15
L-9

TCJ CONSULTING

SITE / SOIL EVALUATION

JOB: Mt. Pl. Estates Lot 14 PHONE:_____ DATE:_____

LOCATION:_____ PIN:_____ COUNTY:_____ PROPERTY SIZE:_____

PROPOSED FACILITY:_____ WATER SUPPLY: On-Site Well__ Community__ Public__ EVALUATION: Auger Boring__ Pit__ Cut_____

WEATHER: _____ ANTECEDENT MOISTURE:_____ SURFACE WATER: _____

FACTORS	PROFILE 6	PROFILE AK	PROFILE_	PROFILE_
LANDSCAPE POSITION/%				
HORIZON I DEPTH	0-11	0-45		
Color - Munsell	red br	yell red		
Texture	cl	cl		
Structure		fi sbk		
Consistence		mst sbk		
Boundary				
HORIZON II DEPTH	11-48			
Color - Munsell	yell red			
Texture	c-h			
Mottles				
Structure	mdsbk			
Consistence	fi sbs			
Boundary				
HORIZON III DEPTH				
Color - Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
HORIZON IV DEPTH				
Color - Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
SOIL WETNESS				
RESTRICTIVE HORIZON				
SAPROLITE				
LTAR	.3	.3		
CLASSIFICATION	PS	PS		

LEGEND

LANDSCAPE POSITION
R - Ridge
S - Shoulder
L - Linear slope
S - Foot slope
N - Nose slope
H - Head slope
Cc - Concave slope
Cv - Convex slope
T - Terrace
P - Flood Plain

TEXTURE
s - sand
ls - loamy sand
sl - sandy loam
l - loam
si - silt
sil - silt loam
sicl - silty clay loam
cl - clay loam
scl - sandy clay loam
sc - sandy clay
sic - silty clay
c - clay

CONSISTENCE
WET
Ns - non-sticky
Ss - slightly sticky
S - sticky
Vs - very sticky

Np - non-plastic
Sp - slightly plastic
P - plastic
Vp - very plastic

MOIST
vfr - very friable
fr - friable
fi - firm
vfi - very firm
efi - extremely firm

STRUCTURE
sg - single grain
m - massive
cr - crumb
gr - granular
sab - subangular blocky
ab - angular blocky
pl - platy
pr - prismatic

COPY

STATE OF NORTH CAROLINA

COUNTY OF MECKLENBURG

SEPTIC TANK DRAIN FIELD EASEMENT AGREEMENT

FILE COPY

FEES	
TAXES	
REC FEE	20.00
PAGE	410
TIME	2:44
DOC #	2000 24477

This EASEMENT made this ____ day of August, 2000, by and between

GRANTOR	GRANTEE
Fletcher G. Keith and wife, Peggy Keith	Fletcher G. Keith and wife, Peggy G. Keith 4015 Triangle Drive Charlotte, NC 28208

Enter in appropriate block for each party: name, address, and, if appropriate, character of entity, e.g., corporation or partnership.

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee an easement as hereinafter described, to run with the land, upon that certain lot or parcel of land owned by Grantor and located in the City of N/A, Long Creek Township, Mecklenburg County, North Carolina, and more particularly described as follows:

Part of Mecklenburg Tax Parcel No. 023-252-33 as shown on a page of the County Tax Map attached hereto as Exhibit A and recorded Lot 45 Block N/A of Mountain Point Estates in Map Book 38 Page 147 (&/or subdivided of the Mecklenburg County North Carolina Public Registry.

See a portion of the plat attached hereto as Exhibit B and the parcel shown thereon identified with Grantor's name for the legal description of Grantor's parcel and of the Septic Tank Drain Field Easement Area located thereon, said parcel labeled thereon and hereinafter referred to as the "Easement Parcel."

This instrument was prepared by: Griffin & Brunson, LLP

Mail after recording to Griffin & Brunson, LLP, 301 South McDowell Street, Suite 900, Charlotte, NC 28204

Grantor hereby imposes said easement for the benefit of Grantee as the present owner and for the benefit of future owners of the following lot or parcel of land, situated in the City of N/A, Hill Creek Township, Mecklenburg County, North Carolina, and more particularly described as follows:

Mecklenburg Tax Parcel No. 023-252-33 as shown on a page of the County Tax Map attached hereto as Exhibit A

Lot 14 Block N/A of Mountain Point Estates recorded in Map Book 33 Page 147 (~~Cabinet~~) of the Mecklenburg County, North Carolina Public Registry.

See the plat attached hereto as Exhibit B and the parcel shown thereon identified with Grantee's name for the legal description of Grantee's parcel, said parcel labeled thereon and hereinafter referred to as the "Benefitted Parcel."

Said Easement shall enable the Grantee to place, if, as and when needed, such need to be determined by the Grantee in his sole discretion, a septic tank and drain field or portions thereof, upon the Septic Tank Drain Field Easement Area on the Easement Parcel and to inspect, maintain, repair and replace the components of said septic tank and drain field at any time and from time to time. If the Easement Area also includes a connector strip for ingress and egress, Grantee shall have the right to use said connector strip for access as needed. *This Easement may not be altered, amended or cancelled without the express written permission of the Mecklenburg County Health Department, which written permission must be part of any document recorded to alter, amend or cancel this Easement.* This Easement shall automatically expire, however, should Grantee ever hook up the structure located or to be located on the Benefitted Parcel to a public or community sanitary sewage system but shall otherwise be perpetual.

Grantor acknowledges that the Septic Tank Drain Field Easement Area cannot be used and will not be used for any of the following activities or in any of the following ways:

- Grading or filling
- Parking or driving heavy equipment in the area or in any other way compacting the soil in the Area
- Excavating soil from the Area
- Placing footings or foundations or engaging in any other construction activity in the Area
- Placing in-ground or above-ground swimming pools in the Area
- Placing irrigation systems in the Area
- Placing underground utility lines or cables in the Area
- Planting trees or gardens in the Area
- Removing any large trees in the Area unless dead or diseased
- Using the area for the burial of stumps, trash, or any other type of construction material
- Using the Area for gravesites

Diverting the natural flow of water onto the Area by way of drainage ditches or diversion ditches or using the Area to receive water from any gutter or downspout discharges

IN WITNESS WHEREOF, the Grantor and Grantee have hereunto set their hands and seals, or if corporate, have caused this instrument to be signed in their corporate names by their duly authorized officers and their seals to be hereunto affixed by authority of their Boards of Directors, the day and year first above written.

GRANTOR

Fletcher G. Keith (SEAL)

_____ (Corporate Name)

Peggy Keith (SEAL)

BY: _____ President

_____ (SEAL)

ATTEST:

_____ (SEAL)

_____ Secretary (Corporate Seal)

SEAL-STAMP North Carolina, Mecklenburg County

I, Susan Spence, a Notary Public of the County and State aforesaid, certify that Fletcher G. Keith and Peggy Keith, Grantor, personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and official stamp or seal, this 29 day of August, 2000.

My Commission Expires: 3/9/03 Susan Spence (Notary Public)

SEAL-STAMP North Carolina, _____ County

I, _____, a Notary Public of the County and State aforesaid, certify that _____ personally came before me this day and acknowledged that he is _____ Secretary of _____, a corporation, and that by authority duly given and as the act of the corporation, the foregoing instrument was signed in its name by its _____ President, sealed with its corporate seal and attested by _____ as its _____ Secretary. Witness my hand and official stamp or seal, this ___ day of _____, 19__.

My Commission Expires: _____ Notary Public

GRANTEE

Fletcher G. Keith (SEAL)

_____ (Corporate Name)

Peggy Keith (SEAL)

BY: _____ President

_____ (SEAL)

ATTEST:

_____ (SEAL)

_____ Secretary (Corporate Seal)

SEAL-STAMP North Carolina, Mecklenburg County

I, Susan Spence, a Notary Public of the County and State aforesaid, certify that Fletcher G. Keith and Peggy Keith, Grantee, personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and official stamp or seal, this 29 day of August, 2000.

My Commission Expires: 3/9/03. Susan Spence (Notary Public)

SEAL-STAMP North Carolina, _____ County

I, _____, a Notary Public of the County and State aforesaid, certify that _____ personally came before me this day and acknowledged that he is _____ Secretary of _____, a corporation, and that by authority duly given and as the act of the corporation, the foregoing instrument was signed in its name by its _____ President, sealed with its corporate seal and attested by _____ as its _____ Secretary. Witness my hand and official stamp or seal, this ____ day of _____, 19__.

My Commission Expires: _____ Notary Public

This document is not to be recorded until approved by the Mecklenburg County Health Department.

APPROVED AS TO THE SEPTIC REPAIR AREA REQUIREMENTS:

MECKLENBURG COUNTY HEALTH DEPARTMENT

BY: Kelly Randall DATE: 8-31-00

Kelly Randall
(print name)

Approval by the Mecklenburg County Health Department does not certify or extend to matters of title. The purchaser of property subject to or affected by this easement is responsible for ascertaining all matters affecting the validity and enforceability of this instrument.

FEE: 100.00 OK 42299

DATE: 6/15/99 VHS

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 #: 3991B

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 023-252-33P014

STREET ADDRESS: LOT 14 Mountain Point Lane

SUBDIVISION OR MOBILE HOME PARK NAME: Mountain Point Estates

LOT NUMBER: LOT 14

TYPE OF BUILDING (CHECK ONE):

__ SINGLE MOBILE HOME(S)
__ DOUBLE WIDE (D)
✓ 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: 3500

NUMBER OF BEDROOMS: 4 NUMBER OF OCCUPANTS:

FOUNDATION FOR RESIDENCE: Crawlspace

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

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: F. G. KEITH

NAME: (LAST) KEITH (FIRST) F. (MI) G.

ADDRESS: 5344 Central Avenue

CITY: Charlotte STATE: NC ZIP: 28212

DAYTIME PHONE: 704 568-4195

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: (LAST) KATE (FIRST) KATHY (MI)

DAYTIME PHONE: 704 399-4848

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: _____ DATE: 6-15-99

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

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

AC's #2

Sheet: _____
Property ID: PO 023-252-33
Lot #: ~~39~~ 14
File #: 3991B

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: F. D. Keith APPLICANT: Kathy Pate
ADDRESS: 5344 Central Ave., Charlotte, N.C. 28212 DATE EVALUATED: 7-28-99
PROPOSED FACILITY: residence PROPOSED DESIGN FLOW (.1949) 480gpd PROPERTY SIZE: 1.0 ± Ac.
LOCATION OF SITE: Mountain Point Lane PROPERTY RECORDED: _____
WATER SUPPLY: ☒Private ☐Public ☐Well ☐Spring ☐Other _____
EVALUATION METHOD: ☒Augur Boring ☐Pit ☐Cut
TYPE OF WASTEWATER: ☐Sewage ☐Industrial Process ☐Mixed

PROFILE #	Slopes 5-12% .1940 Landscape Position/ Slope %	Horizon Depth (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS &LTAR
1	LS	0-2"	gr/cl	Fr/SE XP/SS/SP	>30" to soil wetness	30"	N/A	None	US IV .25%/Ac
		2-30"	SBK/C	Fi/SE XP/S/P					
2	LS	0-3"	gr/cl	Fr/SE XP/SS/SP	18" to soil wetness	18"	N/A	None	US IV
		3-18"	SBK/C	Fi/SE XP/S/P					

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

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): Unsuitable
EVALUATED BY: W. R. Marlin, LSS 7-28-99
OTHER(S) PRESENT: _____

FILE # 3991B

COMMENTS 100% Repair

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	CONSISTENCE 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

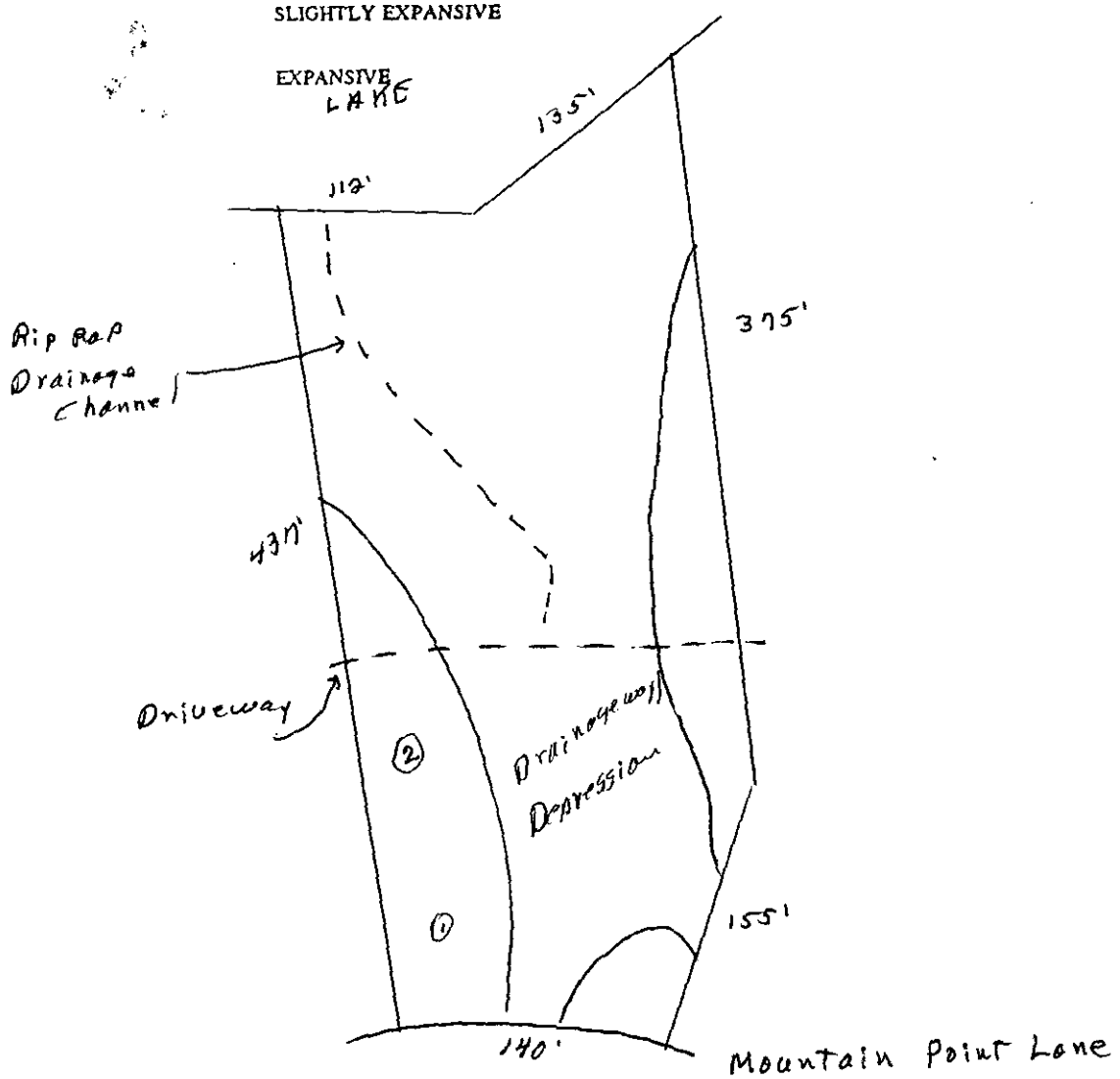
STRUCTURE

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

MINERALOGY

SLIGHTLY EXPANSIVE

EXPANSIVE



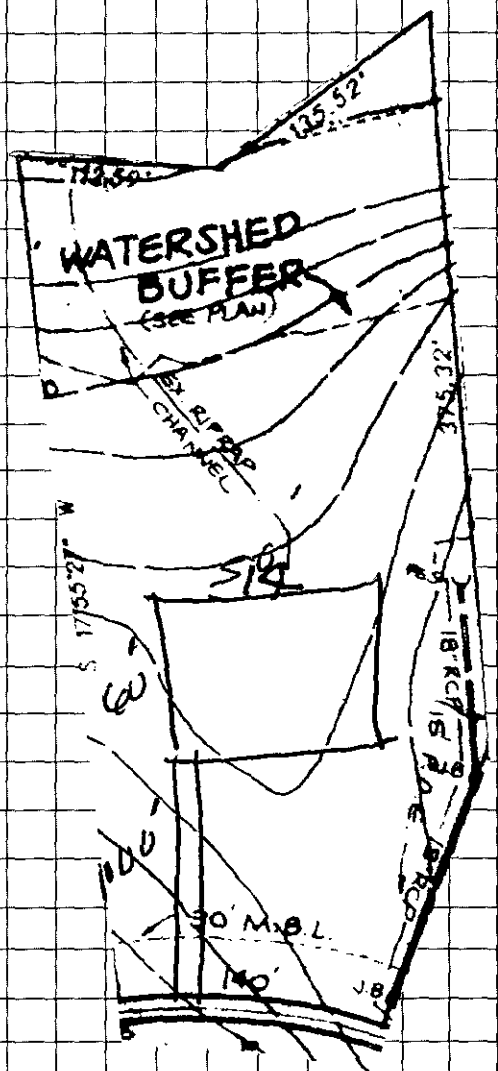
PROPOSED PLOT PLAN

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

FILE: 3991B

TC: 023-252-33P014

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.



Lot #14 Mountain Point Lane

OWNER/AGENT SIGNATURE

DATE 6-25-99

APPROVAL DATE _____

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