

1/4/2008

duponbj

Groundwater and Wastewater Services File Imaging Project

May 2007

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CERTIFICATE OF COMPLETION/OPERATION PERMIT

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

FILE: 7166B DATE: 12/14/00

TC: 193-051 29,B ☒ L ☐ CRT

SERIAL Nº 18379

Name of Owner MARK SMITH Juris.:

Address of Property 16112 IDLEWILD ROAD

Inspection Data:

Tank Material PCC

Total Length of Drainfield 300

Number of Lines 4 @ 75

Cover Depth 6"

Water Supply Source MUNICIPAL

Distance to Water Source >100'

Excavation Inspected 12-12-00

Tank(s) Inspected 12-12-00

Wash Line Inspected —

High Water Alarm Inspected 12-15-00

SER
PLAN

PLOT

Design 1500 SG 1000 DT 1200 SFT INNOVATIVE CTR# G&M ENTERPRISE

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

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

and meets the provisions of 15A NCAC 18A. 1900, "Laws And Rules For Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. This issuance of this

☐ Certificate of Completion ☒ Operation Permit

does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 15A NCAC 18A. 1990 in addition to those listed below under "COMMENTS." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

Notice: Disturbance of the designated repair area may result in the suspension/revocation of this permit.

COMMENTS: TYPE II-B

(1) HOLD FOR WATER IN TANK AND POWER TO SET PRESSURE ON PRESSURE MANIFOLD.

(2) HOLD FOR NEMA 4X BOX

Environmental Health Specialist

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

INSTALLATION, CONSTRUCTION, ALTERATION, AND/OR REPAIR APPROVAL

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

FILE: 4166B DATE: 7/17/00

TC: 193-051-29, BPO ☐ X

SERIAL No 17695

Permission is hereby given to _____ Install or Construct, _____ Alter or Repair the individual septic tank wastewater treatment system with subsurface, soil absorption, effluent discharge as specified herein at the described location. This permit is granted based upon the information supplied in the application dated 1-4-99. All work shall be completed on or before 9-17-00, after which date this permit shall be null and void. The system shall meet all of the construction requirements of 15A NCAC 18A. 1900 which are in effect on the date of the granting of this permit. A Certificate of Completion or an Operation Permit must be obtained from the Mecklenburg County Health Department before any system can be covered up or placed into service. The issuance of this permit does not in any way guarantee that the system anticipated to be constructed will operate properly, or relieve any person now or hereafter owning, controlling or using such system from any liability resulting from the failure of the system to operate properly.

SEE PLAN ON FILE

PLOT OF SYSTEM

Liquid Capacity of Septic Tank 1500 gallons

Liquid Capacity of Dosing Tank 1000 gallons

Tank Construction PCC 1500

Trench Depth 18"

Absorption and/or Nitrification Lines:

Trench Width 36" OR 3' feet

Trench Walls Scored and Porous gBS

Total Line Length 300 feet

Number of Lines 4

Depth of Stone NA inches

Distance from House 5' feet

Distance from Property Line 10' feet

Distance from Well 100' feet

NOTICE: This system shall not be installed while soils are in a wet condition.

NAME OF OWNER MARK SMITH

LOCATION OF PROPERTY 1012 IDLEWILD ROAD

Comments: (1) BACKFILL W/ SAND

(2) NEMA 4X SIMPLEX CONTROL PANEL REQUIRED

Environmental Health Specialist

WHITE - HEALTH DEPARTMENT's COPY • CANARY - E.H.S. COPY • PINK - OWNER OR AGENT's COPY

ck # 1213 ACS

FEE: 380 / AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION
DATE: 6/15/00 VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE

DATE: 4-19-00 PERMIT NO: 4166B
PARCEL NO: 193-051-29,13 B

JOB LOCATION ADDRESS: 10112 [redacted] Idlewild Road
PROPERTY OWNER: Mark Smith
BUILDING CONTRACTOR:
SUBDIVISION NAME:
AUTHORIZATION ISSUED BY: [signature] R.S. DATE: 4-19-00
DEHNR AUTHORIZED AGENT

AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NO. 4166B, 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: See conditions of Improvement Permit.

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.

X Suzi Preidt for Roger Moore 6-15-00
SIGNATURE OF OWNER/OWNER'S REPRESENTATIVE DATE

Mecklenburg County
Health Department

August 2, 2000

Mark Smith
10108 Idlewild Road
Charlotte, NC 28105

Dear Mr. Smith:

Re: 10112 Idlewild Road
File: 4166B (Tax Parcel No. 193-051-29, 13PO)

At your request an inspection was made at the above referenced property to facilitate the issuance of an Operation Permit for the sewage treatment and disposal system. During the inspection, it was found that the following items did not meet the regulations set forth in the "Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A .1900; .1952 Septic Tank, Dosing, Dosing Tank and Lift Station Design." Our comments follow:

1) (6) Pump and 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 the finished grade. The pump(s) 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.

2) (9) 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. The alarm shall be audible and visible by system users and weatherproof if installed outdoors in an enclosure (NEMA 4X or equivalent).

The above mentioned items must be installed and inspected prior to the Operation Permit being issued. The Operation Permit is **required** for the Certificate of Occupancy and the permanent electric hook-ups. Please schedule the inspections at least five working days in advance to ensure no delays in the Operation Permit issuance.

Please call me at 336-5572 to discuss any question you may have concerning this matter.

Sincerely,

J. Andrew Walker, R.S.
Individual Water and Wastewater Systems

/kdt

CONDITIONS OF IMPROVEMENT PERMIT

Permit Number: 41666

Tax Number: 193-051-29 13 06

- 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	360 Max gallons/day wastewater flow	900 Absorption Area (sq ft)	9' Trench spacing (min. on centers)	
N/A Serviced by private well	1500 Gallon septic tank	300 Total trench length (ft)	18" Maximum trench depth (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions)	
3 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: - Group I, II or III backfill required - Thin 12" top cover required - Legal easement (recorded) required. - Agreement forms (recorded) required. - Additional soil cover may need to be trucked in. - Nema 4x Simplex Control panel required.				
Repair Area System Type 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	
2880 Absorption Area (Sq ft) 576 Total Trench Length (Ft)	12" Depth of Stone Trench	5 Trench spacing (min. on centers)	15" 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.

L S Thompson Rs. 4-19-00
DEHNR Authorized Agent Date

x Suzie Preidt for Roger Moore 6-15-00
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

Mecklenburg County
Health Department

Conditions of Improvement Permit

File Number: 4166B
Site Address: 10108 Idlewild Road

1. The wastewater treatment and disposal system permitted is a pump-to-innovative system designed by Toney C. Jacobs & Associates, Inc. The septic system must be installed as designed and approved.
2. The system will require a single phase, simplex control panel with alarm. The control panel must have a Nema 4x weather proof rating.
3. A pressure manifold shall be used to distribute effluent to the innovative drain field trenches
4. Group I, II or III soil shall be used as backfill around the innovative drain field trenches.
5. Septic and pump tanks must be installed in an area not subject to vehicular traffic. System installer must ensure that finished soil cover over the tanks will not be greater than 36 inches in depth. Soil cover greater than 36 inches will require reinforced tanks.
6. Nitrification trenches shall be constructed as level as possible but in no case shall the fall in a single trench bottom exceed one-fourth inch in 10 feet as determined by an engineer's level or equivalent.
7. Any changes in the site must be pre-approved by the Mecklenburg County Environmental Health Department.
8. The wastewater treatment and disposal drain field area, including the designated repair areas, shall not be used for any of the following:

    - Grading or filling
    - Parking or driving heavy equipment in the area or subjecting the site to possible soil compaction
    - Construction staging area
    - Installation of lawn irrigation components
    - Installation of underground utilities or cables of any type
    - Burial of any debris or material
    - Utilizing the area for gravesites
    - Diversion of storm water runoff into this area

9. Septic system installer must be registered with Mecklenburg County prior to meeting for the required pre-construction conference.
10. System installer will be required to operate the system at the time of the final inspection. Arrangements must be made to have the pump tank filled with water prior to the requested final inspection.
11. The system owner shall have the contents of the septic tank checked, and the contents of the tank removed, periodically from all compartments, to ensure proper operation of the system. The contents of the septic tank shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.
12. All septic tank riser and effluent filter rules will apply to this system. It is strongly recommended that access risers be added to both ends of the septic tank, extending to at least finish grade. This will allow periodic inspection of the solids level in the tank as well as help facilitate the periodic cleaning of the effluent bio-filter.
13. The local Health Department is required, by the State, to perform system reviews of Type IIIb systems at a minimum of every 5 years. The owner of the system is responsible for paying any inspection fees, as determined by the Board of County Commissioners, at the time of the required inspection.

Signature Owner/Agent Susie Preidt for Roger Moore **Date** 6-15-00

PEOPLE • PRIDE • PROGRESS

Environmental Health Division

700 North Tryon Street • Suite 211 • Charlotte, North Carolina 28202-2236

Mecklenburg County
Health Department

January 20, 2000

Mark Smith
10108 Idlewild Road
Matthews, NC 28105

Re: Idlewild Road, lot A
File: 4166B
Parcel: 193-051-13,29PO

Dear Property Owner:

Receipt of your Application for Improvement Permit for the above referenced property is acknowledged. A soil evaluation and a site visit have been conducted. The results of the evaluation indicated that the site is **UNSUITABLE** under Rules .1941 **SOIL CHARACTERISTICS (MORPHOLOGY)**, .1942 **SOIL WETNESS CONDITIONS**, .1943 **SOIL DEPTH**, and .1945 **AVAILABLE SPACE.** For these reasons your Application for Improvement Permit is denied. A possible way to develop the site exists under Rule .1948(d), which reads as follows:

> A site classified as **UNSUITABLE** may be used for a ground absorption sewage treatment and disposal system specifically identified in Rules .1955, .1956, or .1957 of this Section or a system approved under Rule .1969 if written documentation including engineering, hydrogeologic, geologic or soil studies, indicates to the local health department that the proposed system can be expected to function satisfactorily. Such sites shall be reclassified as **PROVISIONALLY SUITABLE** if the local health department determines that the substantiating data indicate that:
>
> (1) a ground absorption system can be installed so that the effluent will be non-pathogenic, non-infectious, non-toxic, and non-hazardous;
> (2) the effluent will not contaminate ground or surface water; and
> (3) the effluent will be exposed on the ground surface or be discharged to surface waters where it could come in contact with people, animals, or vectors.

The State shall review the substantiating date if requested by the local health department.

Please be advised that you have the right to an informal review by this department. You also have the right to appeal under G.S. 130A-24, and to have the appeal held in Mecklenburg County

If you have any questions regarding this matter, please call me at 336-5575.

Sincerely,

Kelly Randall, R.S.
Individual Water and Wastewater Systems

FEE: _____ DATE: 11/4/99

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

I J CRT

TYPE APPLICATION: ✓ NEW SYSTEM __ EXPANSION/ ALTERATION OF EXISTING SYSTEM __ REPAIR OF EXISTING SYSTEM

COPY

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

FILE #: 4166

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 193-051-29, 13 P

STREET ADDRESS: IDLEWILD RD. MATHEWS NC

TYPE OF BUILDING (CHECK ONE):

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

SUBDIVISION OR MOBILE HOME PARK NAME:

LOT NUMBER: A

TOWNSHIP (CHECK ONE):

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

CLOSING DATE 11/4/99

HEATED SQUARE FOOTAGE: 1680

NUMBER OF BEDROOMS: 3 | NUMBER OF OCCUPANTS: 2

FOUNDATION FOR RESIDENCE:

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

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

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

WATER SUPPLY (CHECK ONE): __ COMMUNITY (C) ✓ 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:

NAME: (LAST) SMITH (FIRST) MARK (MI) R.
ADDRESS: 10108 IDLEWILD RD.
CITY: MATHEWS STATE: NC ZIP: 28105
DAYTIME PHONE: 704 845-0683

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: (LAST) HODGDON (FIRST) BURT (MI) K
DAYTIME PHONE: 704 363-2202

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 11/4/99

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: Burt Hodgdon DATE: 1/4/99

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

COPY

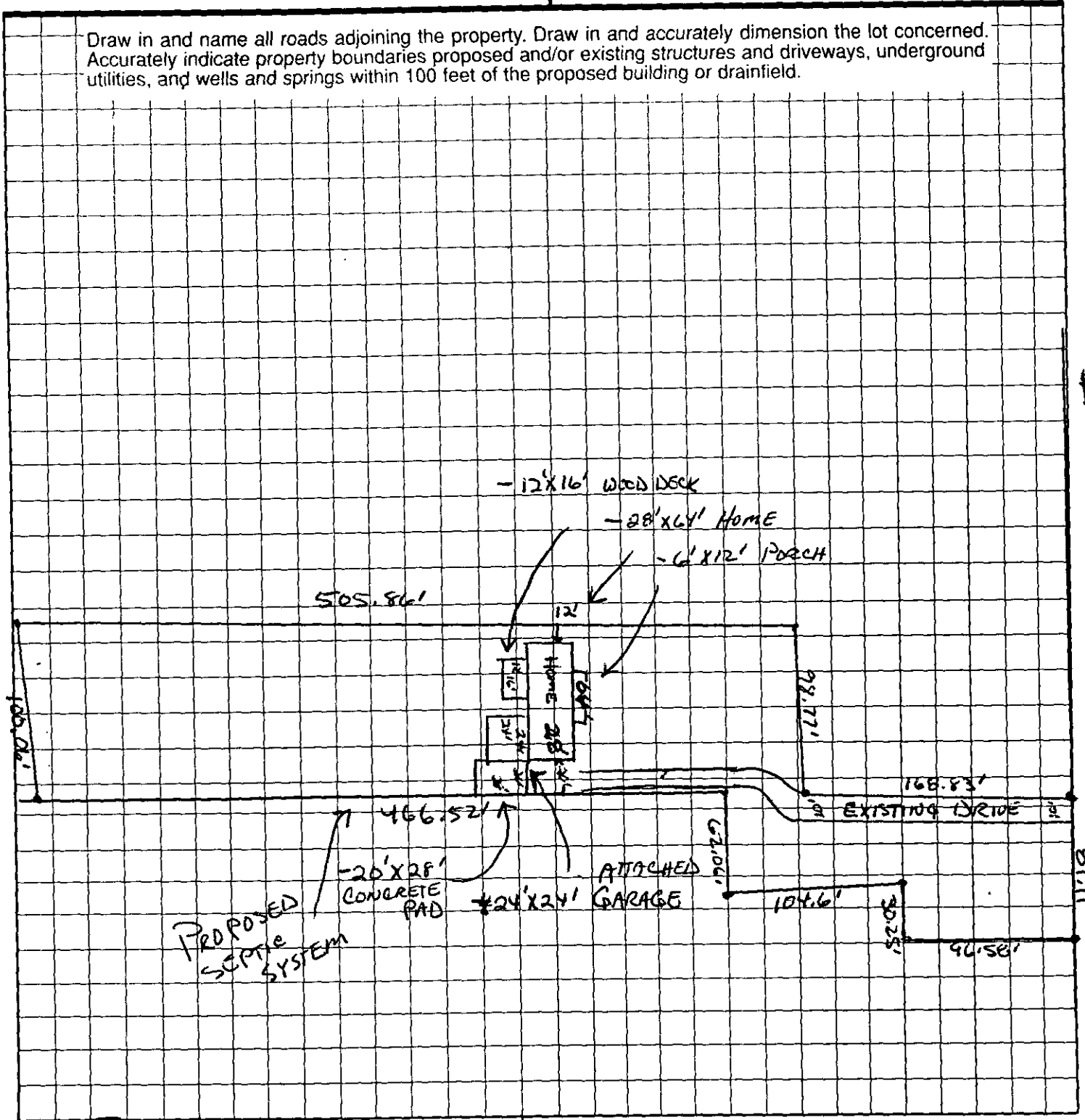
PROPOSED PLOT PLAN

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

FILE: 4166B

TC: 193-051-13,29 PO

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.



Burt Hodgdon
OWNER/AGENT SIGNATURE

DATE 1/5/99

APPROVAL DATE _____

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

MAP NO SCALE

LINDSAY LN.

CURVE No.	RADIUS	DELTA	LENGTH	TANGENT	CHORD	
C1	6150.61'	00°-45'-20"	81.11'	40.56'	S.30°-44'-44"E.	81.11'
C2	6150.61'	00°-20'-47"	37.19'	18.59'	S.30°-11'-41"E.	37.19'
C3	6150.61'	01°-07'-20"	120.46'	60.23'	S.29°-27'-37"E.	120.46'

All of this is now Lot A owned by MAR

OF DEEDS MECKLENBURG COUNTY

N/F LISA D. NICHOLS 8688-635

N/F P. RUSHING & WIFE :: RUSHING 3304-145

N.68°-45'-53"E. 505.86'

N.32°-25'-51"W. 100.36'

MARK RAY SMITH 10425-973

BEARING BASIS LINE N. 68°-45'-40"E.

466.52'

81.72' 99.82' 99.42' 100.62' 84.34'

EIR EIP EIR OFFSET 0.25

N/F NEIL S. WINKLER AND WIFE KEYNA C. WINKLER 7471-587

N/F PAUL DEVALLE 4210-585

N/F PAUL DEVALLE 4210-585

LOT 7 LOT 6 LOT 5 LOT 4 LOT 3

IDLEWILD ACRES MAP BK. 1698 PG. 473

BK. 1698 PG. 473

N.68°-45'-53"E. 161.08'

60'

EIP SIR

LOT B 0.378 AC.

55' REAR YARD

40' SETBACK LINE

98.11'

N.27°-06'-45"W.

S.32°-13'-41"E. 96.95'

N.68°-45'-40"E.

LOT A

68.83'

N.62°-29'-47"E. 104.60'

N.28°-59'-37"W. 56.72'

55' YARD

N.29°-43'-40"E. 30.25'

N.68°-45'-40"E. 96.58'

N.68°-29'-25"E. 203.16'

COLD PROPERTY LINE PER MAP BK. 1698 PG. 473

LOT 2-A 0.812 AC.

(LOT 2 AND PART LOT 1 OF MAP BK. 1698 PG. 473)

WADE E. COLLINS (BY ENTIRETY) 3115-72 MAP BK. 1698 PG. 473

55' REAR

40'

N.21°-49'-58"W. 119.74'

(TIE ONLY) 100.14'

S.68°-15'-45"W

219.15'

S.68°-22'-52"W.

20

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

Sheet: _____

Property ID: PO 193-051-2913

#3

Lot #: _____

File #: 4166B

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Mark R. Smith APPLICANT: Bart Hodgdon

ADDRESS: 10108 Idlewild Rd, Charlotte DATE EVALUATED: 1-11-00

PROPOSED FACILITY: residence PROPOSED DESIGN FLOW (.1949) 360gpd PROPERTY SIZE: 1.5 ±

LOCATION OF SITE: Idlewild Rd PROPERTY RECORDED: _____

WATER SUPPLY: ☐Private ☑Public ☐Well ☐Spring ☐Other _____

EVALUATION METHOD: ☑Augur Boring ☐Pit ☐Cut

TYPE OF WASTEWATER: ☑Sewage ☐Industrial Process ☐Mixed

PROFILE #	Slopes 6-12% .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	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS &LTAR
1	LS	0-3"	gr/sl	Fr/SEXP/SS/NP	2.5YR 6/2 @ 25"	29"	N/A	None	US
		3-7"	gr/scl	Fr/SEXP/SS/SP					
		7-23"	SBK/C	VF:/ EXP/VS/VP					
		23-29"	SBK/SC	VF:/ EXP/VS/VP					
2	LS	0-5"	gr/sl	Fr/SEXP/NS/WP	>22" TO Soil wetness	22"	N/A	None	US
		5-22"	SBK/C	VF:/ EXP/VS/VP					
3	LS	0-4"	gr/scl	Fr/SEXP/SS/SP	>19" TO Soil wetness	19"	N/A	None	US
		4-19"	SBK/SC	VF:/ EXP/VS/VP					
4	LS	0-16"	gr/scl	Fr/SEXP/SS/SP	>39" TO Soil wetness	39"	N/A	None	US
		16-39"	SBK/scl	F:/Mixed/VS/VP					
		Soil Very wet @ 30"							
5	LS	0-2"	gr/c	Fr/SEXP/SS/SP	>16" TO Soil wetness	16"	N/A	None	US
		2-16"	SBK/C	VF:/ EXP/VS/VP					
6	LS	0-3"	gr/scl	Fr/SEXP/SS/SP	2.5Y 6/2 @ 29"	36"	N/A	None	US
		3-29"	SBK/SC	VF:/Mixed/VS/VP					
		29-36"	SBK/SCl	Fr/SEXP/SS/SP					
7	LS	0-3"	gr/sl	Fr/SEXP/NS/NP	>22" TO Soil wetness	22"	N/A	None	US
		3-22"	SBK/SC	VF:/Mixed/VS/VP					
8	LS	0-3"	gr/scl	Fr/SEXP/SS/SP	>28" TO Soil wetness	28"	N/A	None	US
		3-28"	SBK/SC	VF:/Mixed/VS/VP					

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. Medlin LSS 1-12-00

OTHER(S) PRESENT: M. Smith, B. Hodgdon

FILE # 4166B

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	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

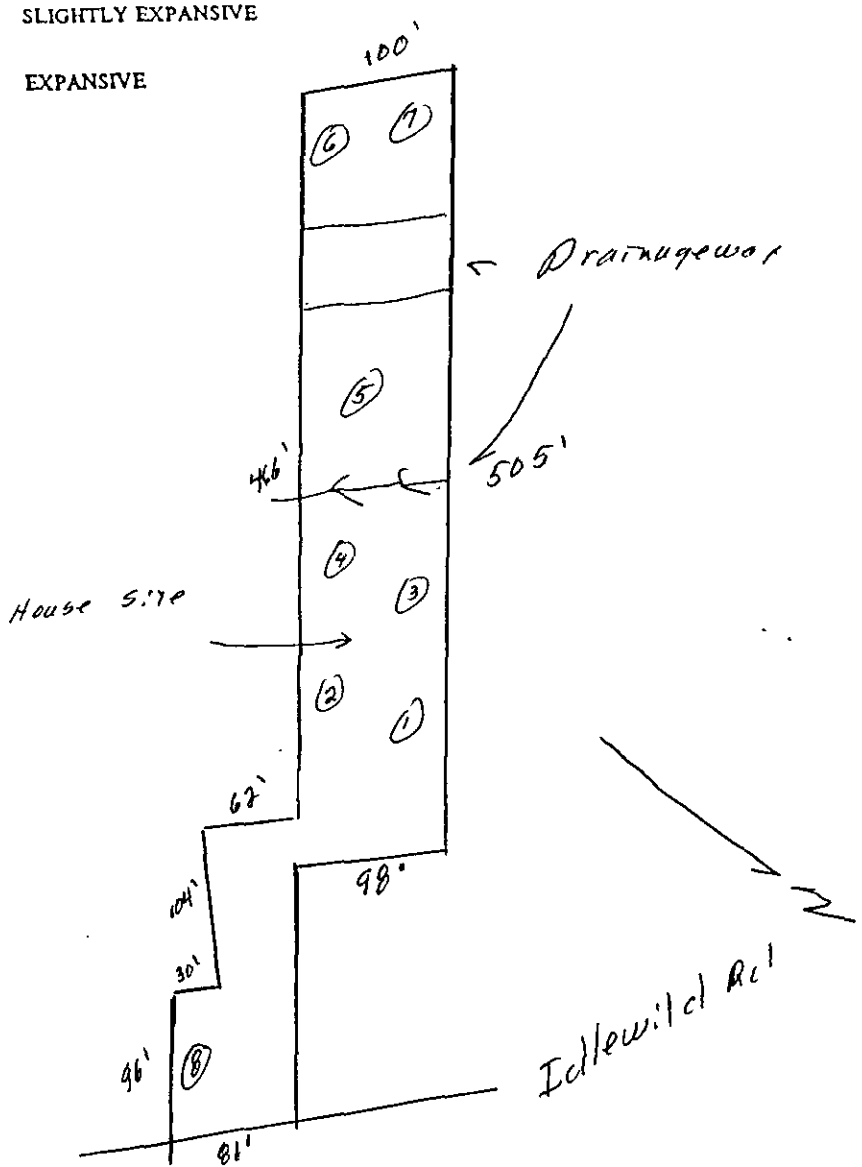
STRUCTURE

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

MINERALOGY

SLIGHTLY EXPANSIVE

EXPANSIVE



RESIDENTIAL SHALLOW COVER INFILTRATOR WITH PRESSURE MANIFOLD DISTRIBUTION SYSTEM FOR SUBSURFACE WASTEWATER DISPOSAL 10108 IDLEWILD ROAD MATHEWS, NORTH CAROLINA 28105

File Copy

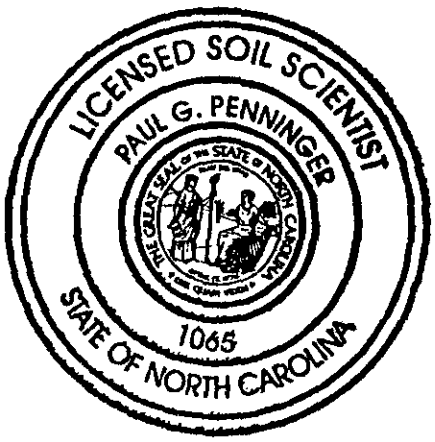
MCHD FILE #4166B

Bill Marlin approved soil profiles 4-19-00 ✓
Reviewed site w/ Paul Penninger - Concur w/ his findings
WRM
4-20-00

Prepared for
Mr. Mark Smith
10108 Idlewild Road
Mathews, NC 28105

Prepared by
Toney C. Jacobs & Associates, Inc.
168 Broadbill Drive
Mooresville, NC 28117
ofc (704)663-6905
fax (704)662-9845
e-mail jacobs@i-america.net

April 12, 2000



Copy: Mr. Larry Thompson, R.S.
MCHD – IWWS
N. Tryon Street
Charlotte, N. C.

Paul G. Penninger, LSS

BACKGROUND

Mr. and Mrs. Mark Smith want to have a 3-bedroom house on the approximately 1.5 acre lot at 10108 Idlewild Road. Mark's parents currently live in a 2-bedroom mobile home on the property. Bill Marlin with the Mecklenburg County Health Department (MCHD) evaluated the lot and found most of the site was unsuitable for a septic system. Toney C. Jacobs & Associates evaluated the site on March 10, 2000 with backhoe pits and also found most of the lot was unsuitable for a system. The soil did get better at the back of the lot, and it was discovered that Mark's relatives owned the approximately 1 acre lot behind his lot. TCJ evaluated this area on March 23 and found an area of provisionally suitable soil. This area was reviewed by Bill Marlin on April 5, 2000. It was agreed that the LTAR would be 0.3 gpd/ft^2 LTAR for a chamber type system or 0.125 for a low pressure pipe (LPP) system.

We are recommending the primary system be a shallow cover Infiltrator chamber system with 18" trench bottoms and the repair be a LPP. The primary system has been flagged in the field and is shown on the attached site plans. The effluent must be pumped from the house to the drainfield. A pressure manifold will be used for distribution of the effluent. Water is from a public water supply.

Before an Authorization to Construct can be issued, Mark must have a legal easement recorded from the owner of the 1 acre lot that allows him to use this area for his septic system and 100% repair area.

APPLICATION INFORMATION

1. Application for Improvement Permit has been submitted to Mecklenburg County Health Department by the property owner, Mr. Mark Smith.
2. Property is shown on attached portion of development survey.
3. Owner:

   Mr. Mark Smith
   10108 Idlewild Road
   Mathews, NC 28105

   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

4. Project described herein is a new project.
5. Water supply is provided by a public water supply.
6. Facility to be served by the proposed system is a 3-bedroom single family residence.
7. Wastewater system components are described herein.

LOCATION

The property is located at 10108 Idlewild Road in Mathews, North Carolina.

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 1000 gallon 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. 1000 gallon pumping tank shall have an access manhole extending at least 6 inches above finished grade.
2. 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 brakes.
3. The pumping tank shall have a properly functioning high-water alarm within the Simplex box. The alarm circuit shall be supplied ahead of any pump overload and short circuit

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 18" deep, 36" wide, and 9' minimum on center. Trenches shall be "level" from end to end.
3. Shallow cover Infiltrator chamber shall be used.
4. Sand backfill shall be placed over the vents on the side of the chambers.
5. A minimum of 6" of cover shall be placed over the chambers.

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- 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 LPP 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 360 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 home owner to minimize the burden on the septic system.

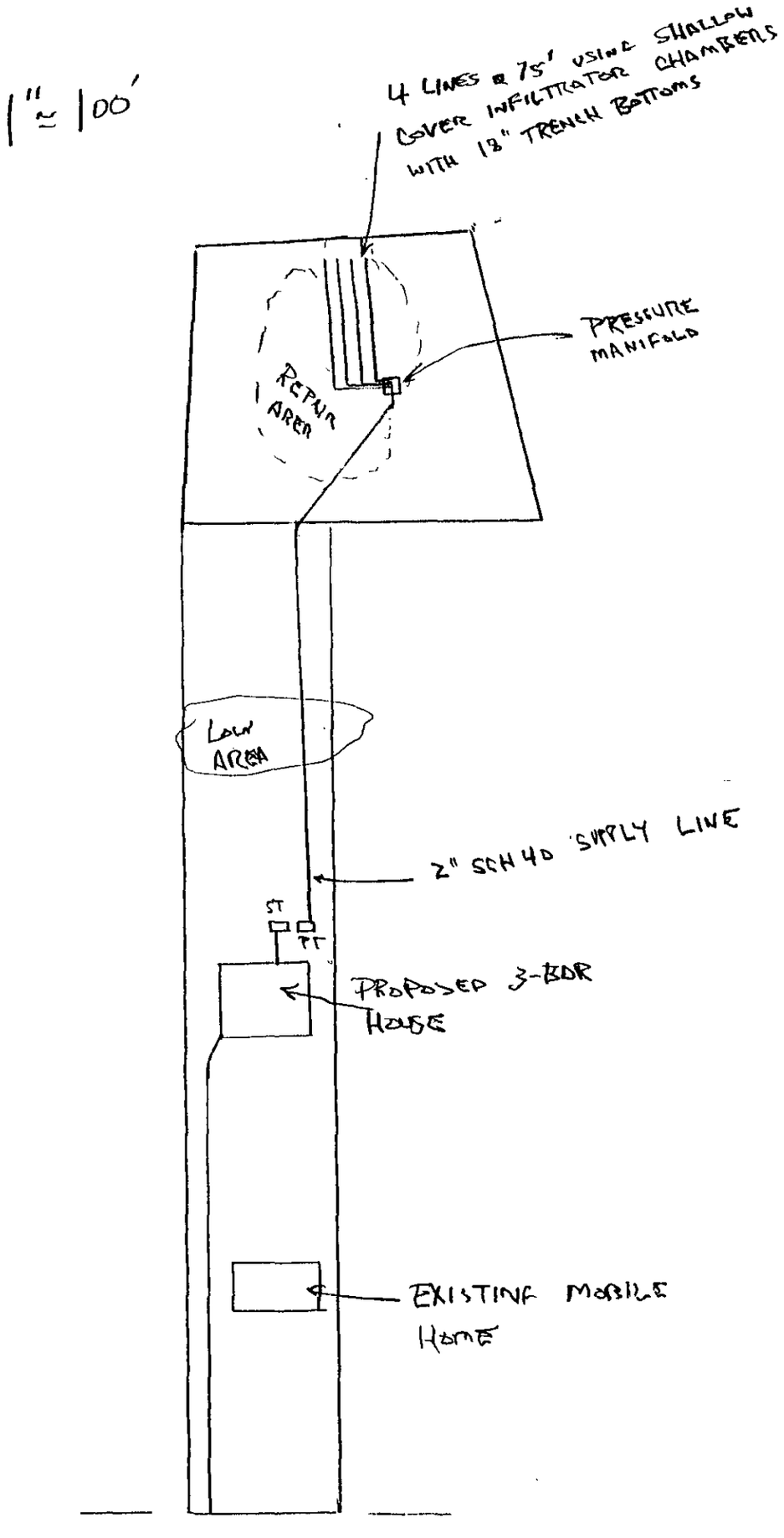
1. Garbage disposals should not be used in on-site systems. The ground garbage adds large amounts of solids to a septic tank, causing sludge to build up at a quicker rate than without. If disposal is installed, use should be limited.
2. Grease, cooking oils and coffee grounds should never be put into 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

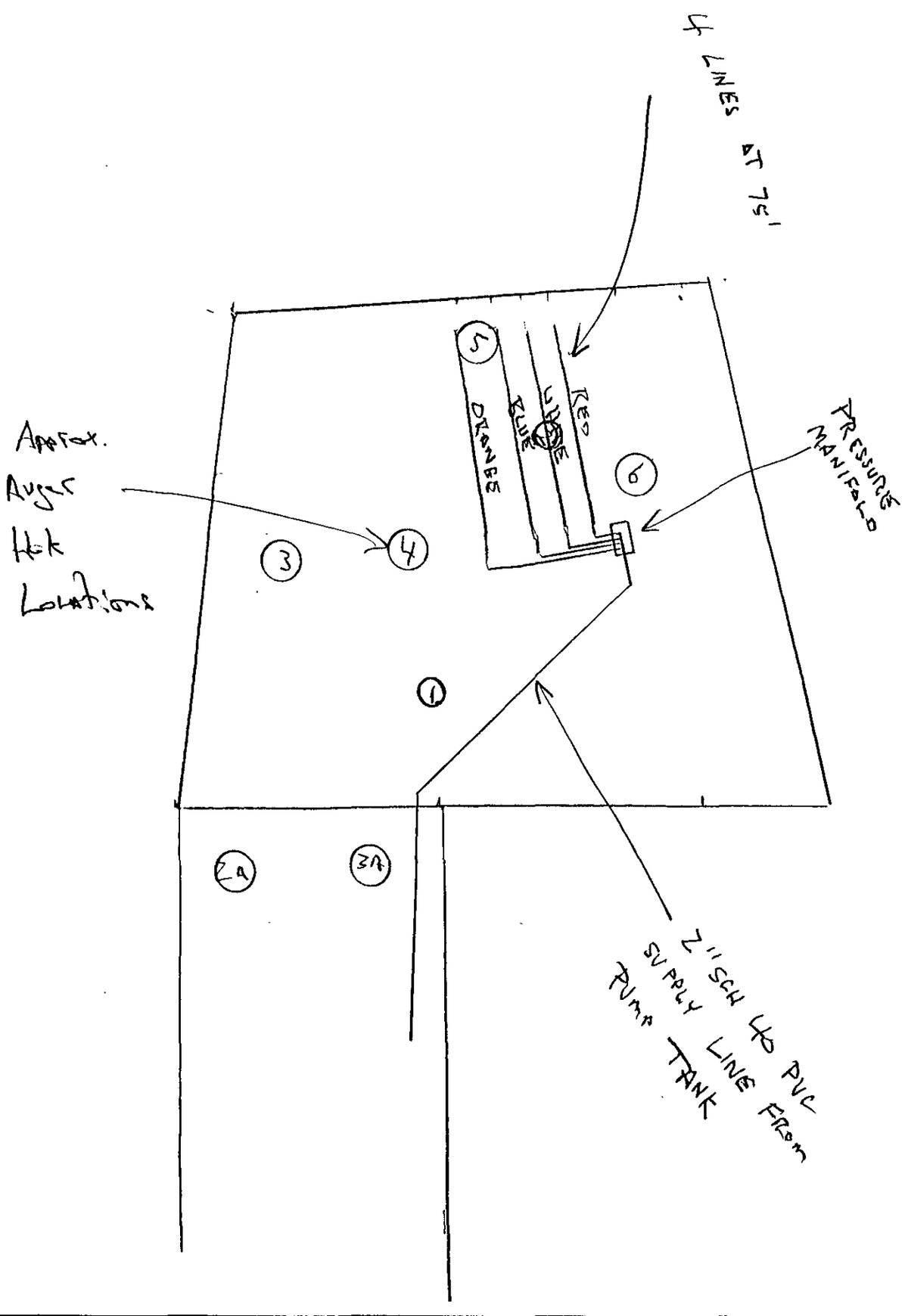
10108 Idlewild Road

Daily design flow:	360 gpd.
Septic tank size:	1000 gal. (2 compartments)
Pumping tank size:	1000 gal.
Effluent loading rate:	0.3 gpd/sf initial system 0.125 gpd/sf LPP repair
Total length and diameter of supply pipe:	app. 400 lf-2" SCH 40 PVC
Number and length of laterals:	4 @75' long
Manifold:	4 taps at ½" (SCH 40 PVC)
Flow rate through the system:	28.4 gpm capability
Elevation head:	18'
Pressure head:	2.0'
Friction head:	8.0'
20% contingency	5.6'
Total head:	33.6'
Pump requirements:	28.4 gpm at 33.6' of head; use Myers ME50 ½hp or equivalent with compatible electrical
Dosing volume:	270 gal. – 1.3 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 gals.)
Pump run per dose:	approx. 9.5 min. (run time control of dose
Check valve:	No
Siphon break hole:	Yes

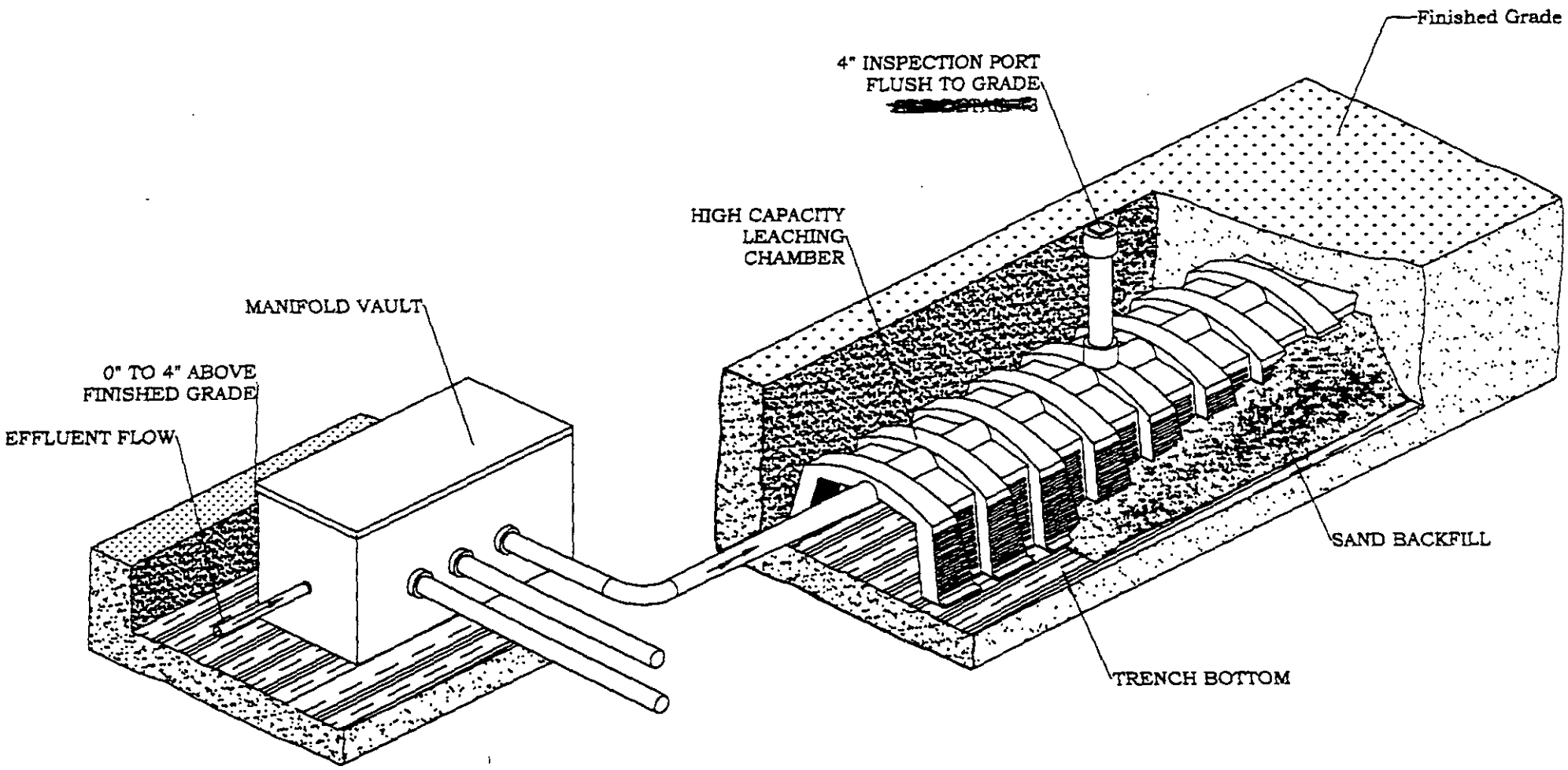
SITE PLAN


1" ≈ 100'
4 LINES @ 75' USING SHALLOW COVER INFILTRATOR CHAMBERS WITH 18" TRENCH BOTTOMS
PRESSURE MANIFOLD
REPAIR AREA
LOW AREA
2" SCH 40 SUPPLY LINE
ST
TT
PROPOSED 3-BDR HOUSE
EXISTING MOBILE HOME
IDLEWILD Rd

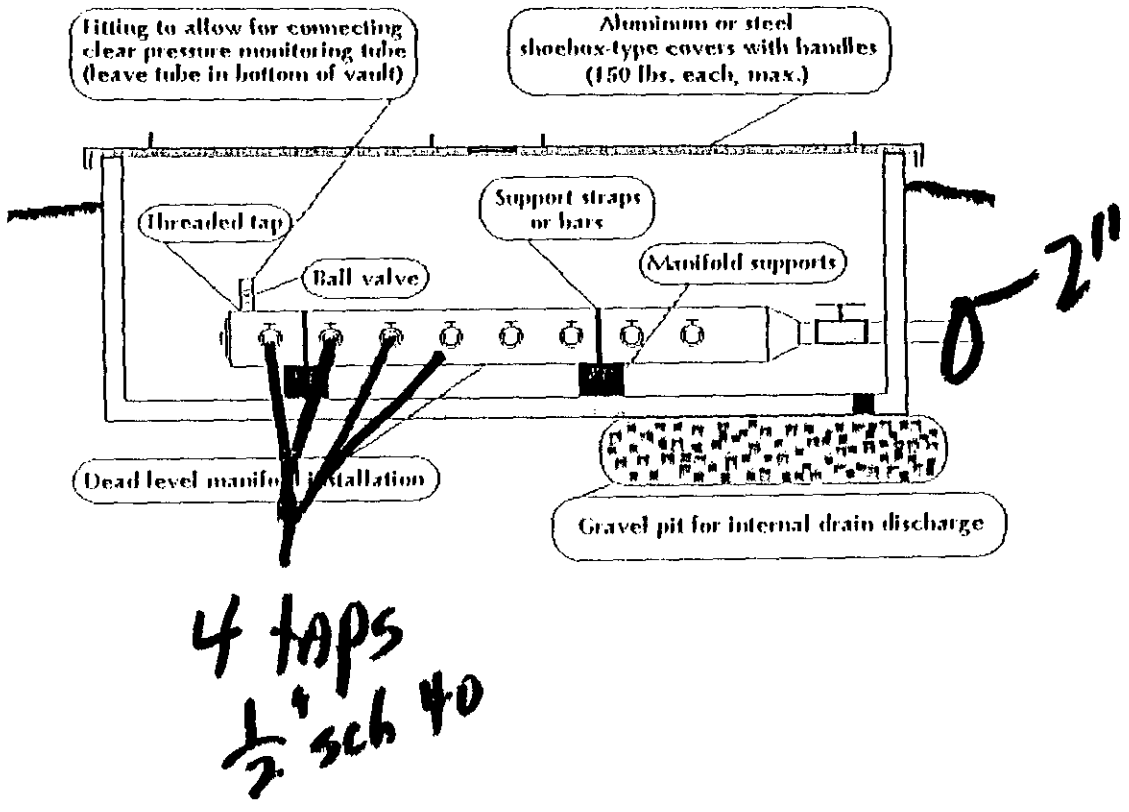
SITE PLAN SHOWING LOCATION OF AUGER BORINGS (1"=50')



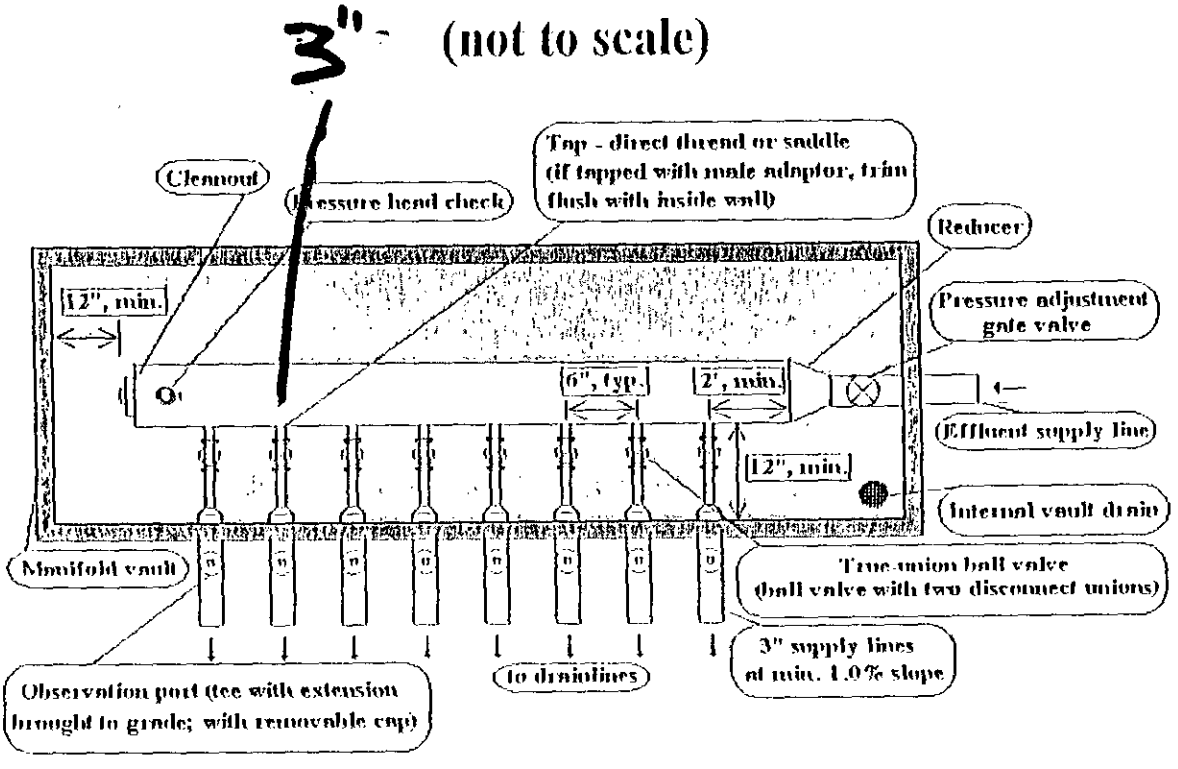
GRAVITY FED LEACHING CHAMBER
FED BY PRESSURE MANIFOLD
DETAIL 1.2A



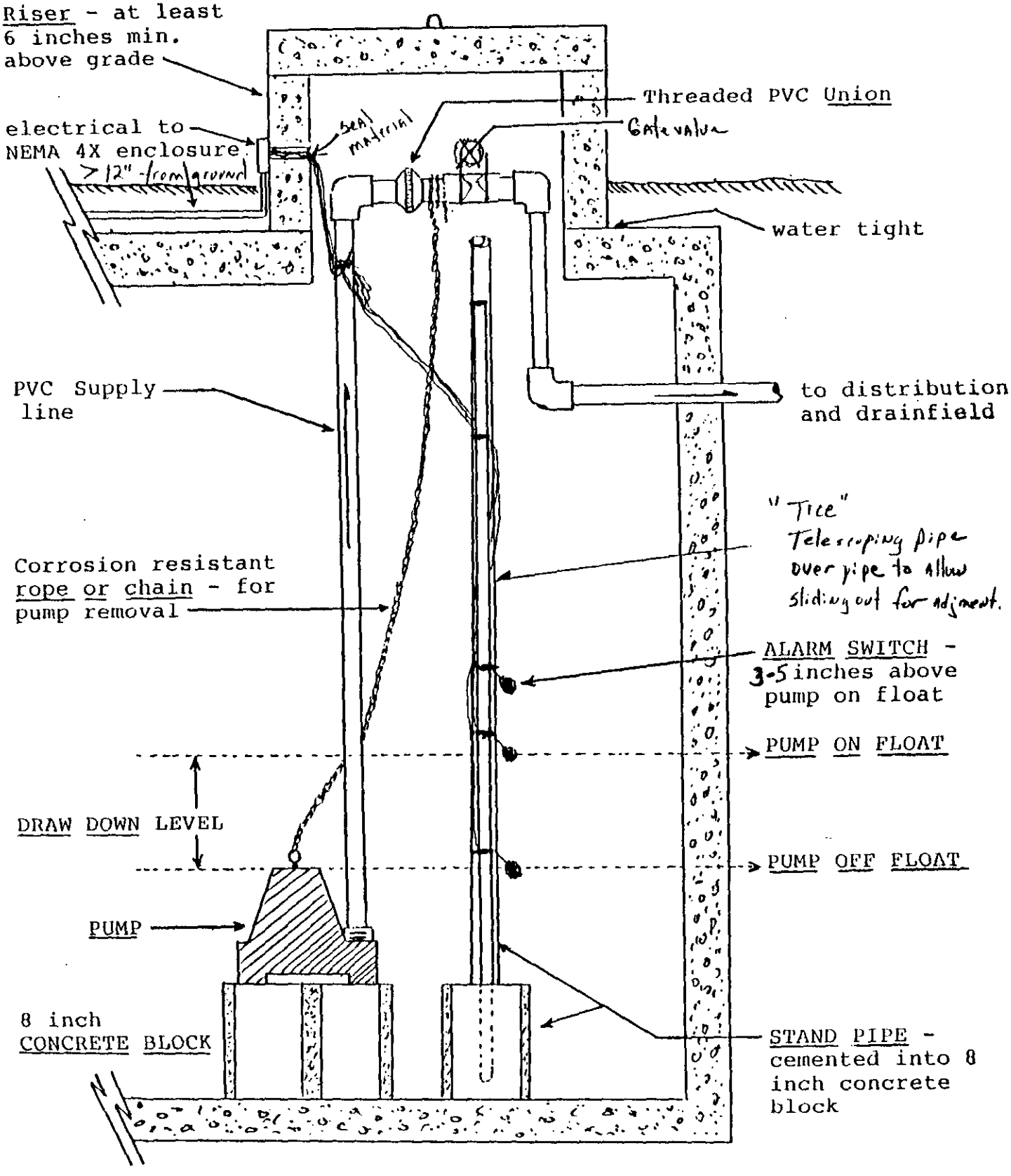
FROM THE POINT ON NORMAN
SEPTIC INFO
(TRI-COUNTY WASTEWATER mgt 1998)



Profile View of Pressure Manifold for Sloping Site Installation

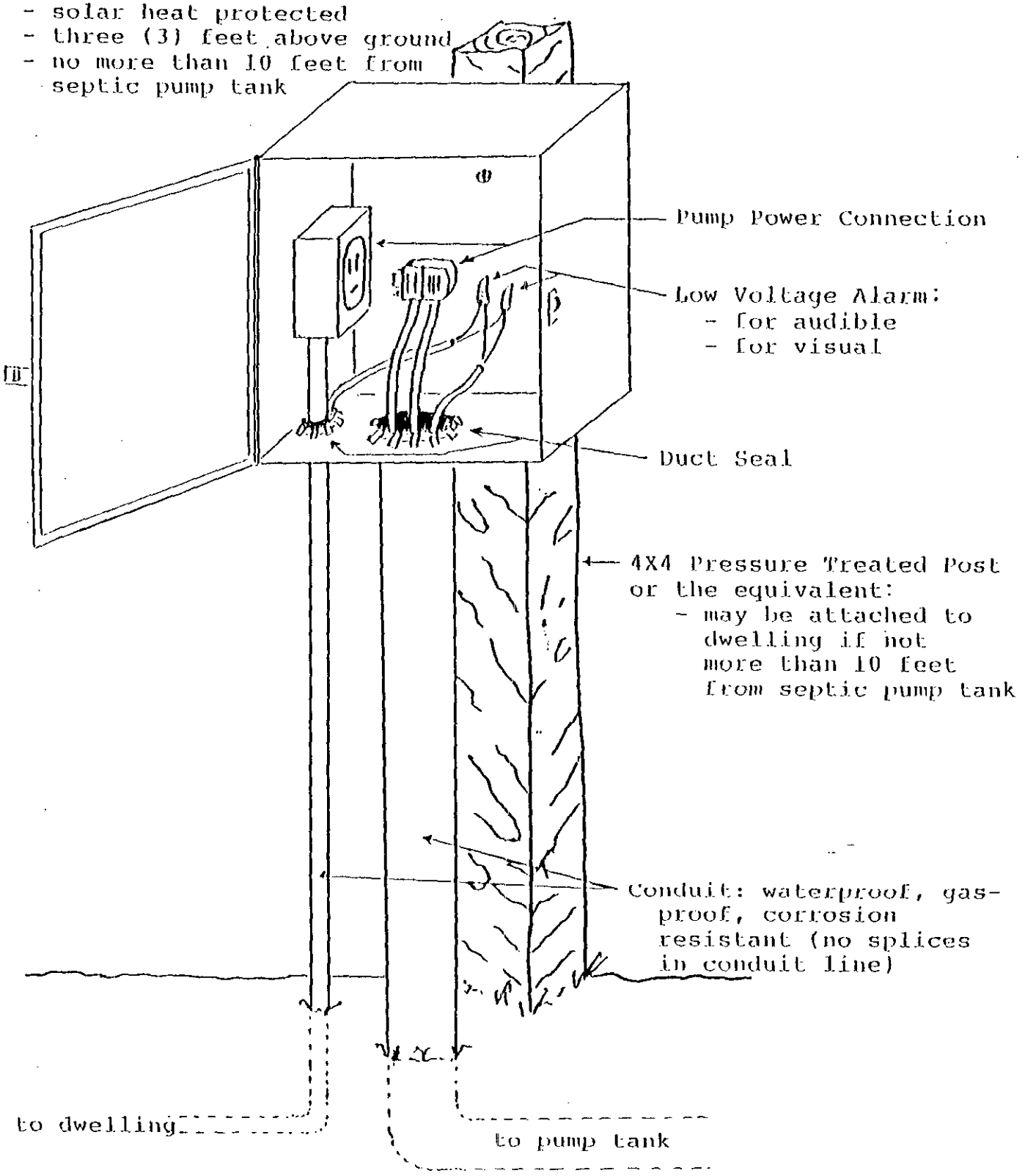


PUMP DIAGRAM

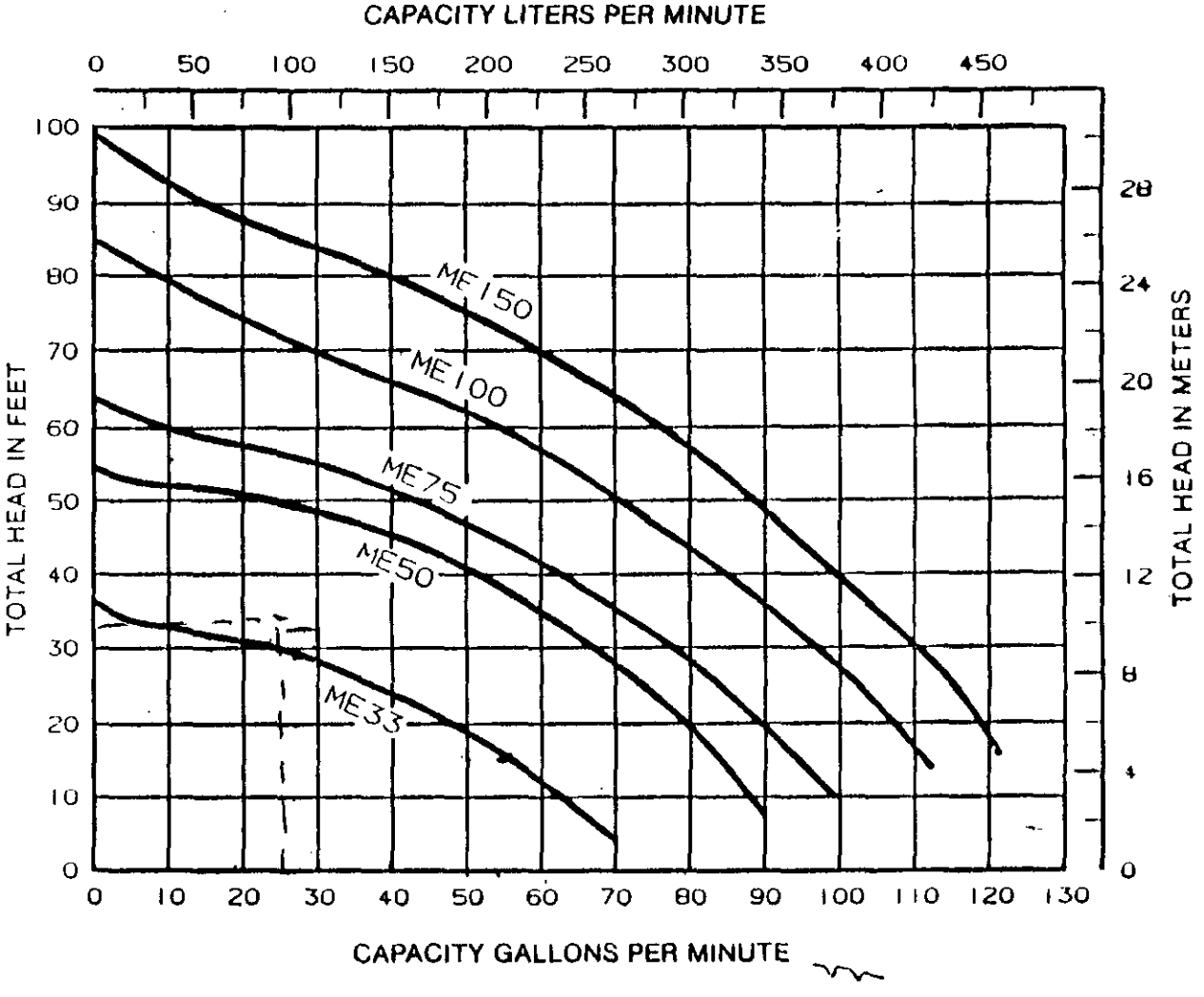


NEMA 4X ENCLOSURE must be:

- water tight
- corrosion resistant
- solar heat protected
- three (3) feet above ground
- no more than 10 feet from septic pump tank



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



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

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TCJ CONSULTING

SITE / SOIL EVALUATION

JOB: Idlewild 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_1	PROFILE_2	PROFILE_3	PROFILE_4
LANDSCAPE POSITION				
HORIZON I DEPTH	0-8	0-7	EXP C	Approx
Color - Munsell	br	br		3"
Texture	sl	sl		yellow to
Structure	gr	gr		red yellow
Consistence	fr	fr		C/Pl
Boundary				
HORIZON DEPTH II	8-27	7-36		
Color - Munsell	red yellow	red		
Texture	C	C		
Mottles				
Structure	mfsbk	mfsbk		
Consistence	fr s/p	firm sl/sc fr s/p		
Boundary				
HORIZON III DEPTH	27-36			
Color - Munsell	yell red			
Texture	C			
Mottles	com fbs			
Structure	mtAB			
Consistence	fr s/p			
Boundary				
HORIZON IV DEPTH				
Color - Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
SOIL WETNESS				
RESTRICTIVE HORIZON				
SAPROLITE				
LTAR	.25-.3	.3		.25-.3
CLASSIFICATION	PS	PS	US	Shall Conv

LEGEND

LANDSCAPE POSITION
R - Ridge Interfluve
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
MOIST / 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

TCJ CONSULTING

SITE / SOIL EVALUATION

JOB:_____ 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 5	PROFILE 6P	PROFILE 7A	PROFILE 8A
LANDSCAPE POSITION-%				
HORIZON I DEPTH	0-6	0-7	0-6	0-7
Color - Munsell	br	br	br	br
Texture	sl	sl	sl	sl
Structure	gr fr	gr fr	gr fr	
Consistence				
Boundary				
HORIZON II DEPTH	6-24	7-36	6-19	7-25
Color - Munsell	red C	red C	yell br C	red yell C/sh
Texture				
Mottles		C yellow yel		
Structure	mf sbk	mf sbk	mf sbk	
Consistence	fi s/p	fi s/p	fi s/p	
Boundary				
HORIZON III DEPTH	24-30		19+	25+
Color - Munsell	red C		C2 U.10YR	ff C
Texture				
Mottles	C yell bc			
Structure	mf sbk			
Consistence	fi-fr s/p			
Boundary				
HORIZON IV DEPTH				
Color - Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
SOIL WETNESS				
RESTRICTIVE HORIZON				
SAPROLITE				
LTAR	.25-.5	.5	.1-.125	.1-.125
CLASSIFICATION	PS shall conv.	PS	PS Drig o c LPd C.I.I	LPD

LEGEND

LANDSCAPE POSITION
R - Ridge Further Info
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

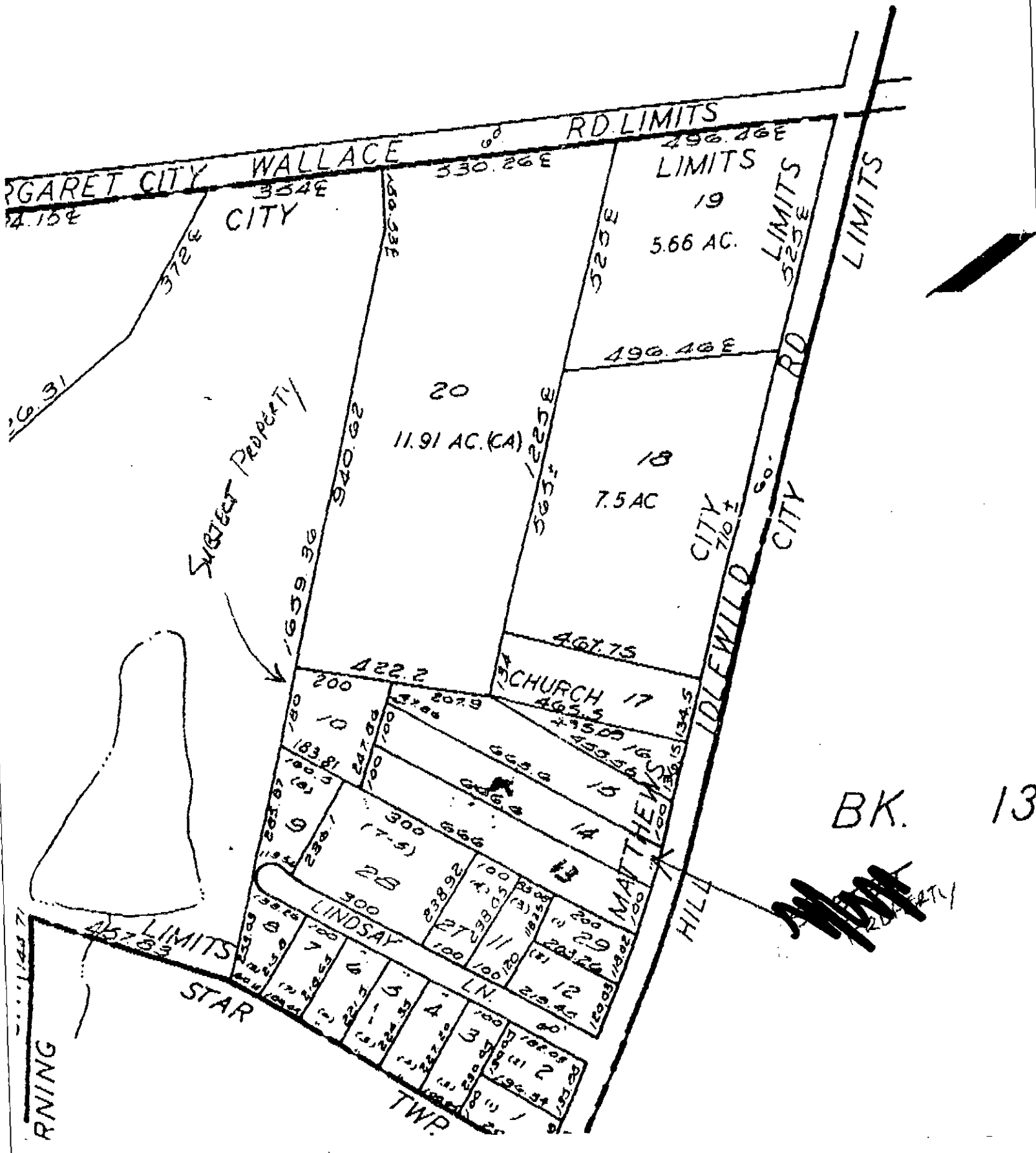
CONSISTENCE
Moist / Wet
WET
Ns - non-sticky
Ss - slightly sticky
S - sticky
Vs - very sticky

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

PG. 04


WALLACE RD. LIMITS
330.26E
496.46E
LIMITS
19
5.66 AC.
LIMITS
522.5E
496.46E
20
11.91 AC. (CA)
1225E
18
7.5 AC
CITY
710±
60'
IDLEWILD RD
CITY LIMITS
SUBJECT PROPERTY
1659.36
940.62
467.75
422.2
CHURCH 17
10
9
28
27
11
29
12
MATTHEWS
LINDSAY LN.
STAR
TWP.
HILL
BK. 13

COPY

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 # 41666

PARCEL # _____

The undersigned, Mark Ray Smith, owner of property located at 10112 Idlewild Rd, (the "site") and described in an instrument recorded in Book 10883 at Page 117, and Page 121, 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.

FILE COPY
FILED FOR REGISTRATION
DATE 6-15-00
BOOK 11356
STAMPS
DOC. # 11136
TIME
PAGE 185
REC FEE
JUDITH A. GIBBONS
REGISTER OF DEEDS
MECKLENBURG COUNTY, N.C.

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: John R. Lynch, Jr.

Mail after recording to: LYNCH & DALRYMPLE PA
9912 MONROE RD STE 201
MATTHEWS NC 28105

- 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 June, 19~~8~~x 2000

(Corporate Name)

Mark Ray Smith (SEAL)

(SEAL)

By: _____

President (SEAL)

(SEAL)

ATTEST:

Secretary

(Corporate Seal)

STATE OF NORTH CAROLINA
COUNTY OF Mecklenburg

I, John R Lynch Jr, a Notary Public for said County and State, do hereby certify that Mark Ray Smith personally appeared before me this date and acknowledged the due execution of the foregoing instrument.

WITNESS my hand and notarial seal, this 8 day of June, ~~19~~ 2000

Notary Public

My Commission Expires:
8/23/2004

JOHN R. LYNCH, JR. NOTARY PUBLIC MECKLENBURG COUNTY, NC

COPY

This instrument drafted by: John R. Lynch, Jr.

After recording, mail to: Lynch & Dalrymple, PA
9912 Monroe Road, Ste 201
Matthews, NC 28105

File 4166 B

FILE COPY

FILED FOR REGISTRATION	DOC. #
6-15-00	TIME 11:36
BOOK 11356	PAGE 185
STAMPS	REC FEE

EDITH A. GIBSON
REGISTER OF DEEDS
MECKLENBURG COUNTY, NC

NORTH CAROLINA

MECKLENBURG COUNTY

SEPTIC TANK DRAIN FIELD EASEMENT DECLARATION AND AGREEMENT

THIS DECLARATION AND EASEMENT, made and entered into this 8 day of June, 2000, by and between **ANNIE RUSHING (widow)**, of Bristol, Virginia (hereinafter "Grantor"), and **MARK RAY SMITH (married)**, of Mecklenburg County, North Carolina, (hereinafter "Grantee"), collectively hereinafter referred to as "Declarant";

WHEREAS, Grantor is the owner, as surviving tenant by the entirety, of that certain property containing approximately .910 acres, more or less, as more particularly described in that certain Deed recorded in Book 2804, at Page 145 of the Mecklenburg County Public Registry (the "Easement Parcel") and Grantee is the owner of Lot A of a Record Plat Revision of the Property of Mark A. Smith, et. al., and Wade E. Collins, as recorded in Map Book 32, Page 53 and revised in Map Book 32, Page 164 of the Mecklenburg County Public Registry (see Deeds recorded in Book 10883, Page 117 and Book 10883, Page 121, Mecklenburg County Public Registry) (the "Benefitted Parcel"); and

WHEREAS, the Declarant (being the Grantor and the Grantee collectively) wish to create a Septic Drain Field Easement to control the development and the use of the Easement Parcel and the Benefitted parcel for the protection of the owner of the Benefitted Parcel and the future owners thereof.

NOW THEREFORE, Declarant hereby declares that the Easement Parcel and the Benefitted Parcel, as hereinafter defined, shall be held, sold and conveyed subject to the following Easement, which shall run with such parcels and be binding on all parties having any right, title or interest in such parcels, their heirs, successors and assigns, and shall be binding upon each owner thereof.

Declarant and Grantor hereby creates an Easement as hereinafter described, to run with the land, upon that certain lot or parcel of land owned by Grantor, referred to herein as the "Easement Parcel", and located in the City of Matthews, Morning Star Township,

Mecklenburg County, North Carolina, and more particularly described as follows:

Mecklenburg Tax Parcel No. 193-051-10, as shown on a page of the County Tax Map attached hereto as Exhibit A and being all of that certain .910 acre parcel of land as more particularly described in that certain Deed recorded in Book 2804, at Page 145 of the Mecklenburg County Public Registry.

See the plat attached hereto as Exhibit B for the legal description of the parcel labeled thereon as the "Easement Parcel" and of the Septic Tank Drain Field Easement Area located thereon.

Declarant and Grantor hereby imposes said Easement for the benefit of the Grantee as the present owner and for the benefit of future owners of the following lot or parcel of land, referred to herein as the "Benefitted Parcel", situated in the City of Matthews, Morning Star Township, Mecklenburg County, North Carolina, and more particularly described as follows:

Out of Mecklenburg Tax Parcel No. 193-051-13, as shown on a page of the County tax Map attached hereto as Exhibit A and being Lot A of a Record Plat Revision of the Property of Mark A. Smith, et. al., and Wade E. Collins, as recorded in Map Book 32, Page 53 and revised in Map Book 32, Page 164 of the Mecklenburg County Public Registry.

See the plat attached hereto as Exhibit B for the legal description of the parcel labeled thereon as the "Benefitted Parcel".

Said easement shall enable the owner of the Benefited Parcel to place, if, as and when needed, such need to be determined by the owner of the Benefitted Parcel 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, the owner of the Benefitted Parcel shall havethe right to use said connector strip for access as needed. ***This Easement may not be altered, amended or canceled without the express written permission of the Mecklenburg County Health Department, which written permission must be a part of any document recorded to alter, amend or cancel this Easement.*** This easement shall automatically expire, however, should the owner of the Benefited Parcel 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.

Declarant and Grantor as the owner of the Easement Parcel 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 filing
-- 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 grave sites
-- 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 as Declarant have hereunto set their hands and seals, the day and year first above written.

GRANTOR (DECLARANT)

Annie Rushing (SEAL)
ANNIE RUSHING

GRANTEE (DECLARANT)

(SEAL)
MARK RAY SMITH

COMMONWEALTH OF VIRGINIA
COUNTY OF Washington

I, J. Shumate, a Notary Public for said County and State aforesaid, certify that **ANNIE RUSHING** personally appeared before me this date and acknowledged the due execution of the foregoing instrument.

Witness my hand and notarial seal this the 7 day of June, 2000.

J. Shumate
NOTARY PUBLIC

Commision Expires: 1-31-03

STATE OF NORTH CAROLINA
COUNTY OF Mecklenburg

I, John R Lynch Jr, a Notary Public for said County and State aforesaid, certify that **MARK RAY SMITH** personally appeared before me this date and acknowledged the due execution of the foregoing instrument.

Witness my hand and notarial seal this the 8 day of June, 2000.

NOTARY PUBLIC

JOHN R LYNCH, JR NOTARY PUBLIC MECKLENBURG COUNTY, NC

Commission Expires: 8/23/2004

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: Philo S Walker RS Date: 6/14/2000

Philo S. Walker
(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 the easement is responsible for ascertaining all matters affecting the validity and enforceability of this instrument.

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

193-051-13, 2910 #3 2nd site

Sheet: _____

Property ID: 193-051-29, 13

Lot #: _____

File #: 41663

SOIL/SITE EVALUATION *for* ON-SITE WASTEWATER SYSTEM

OWNER: Mark R. Smith APPLICANT: Brent Hodgdon

ADDRESS: 10108 Idlewild Road, Charlotte DATE EVALUATED: 2-9-00

PROPOSED FACILITY: residence PROPOSED DESIGN FLOW (.1949) 360gpd PROPERTY SIZE: .2 5-

LOCATION OF SITE: Idlewild Road PROPERTY RECORDED: _____

WATER SUPPLY: ☐Private ☐Public ☐Well ☐Spring ☐Other _____

EVALUATION METHOD: ~~Auger Boring~~ ☑Pit ☐Cut

TYPE OF WASTEWATER: ☐Sewage ☐Industrial Process ☐Mixed

PROFILE #	Slopes 6-12% .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	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS &LTAR
1	LS	0-7"	gr/sl	Fr/SEXP/NS/NP	751" TO SOIL WETNESS	25"	US	None	US
		7-10"	SBM/SCL	Fr/SEXP/SS/SP					
		10-18"	SBM/SC	VF/Mixed/VS/VP					
		18-25"	M/SC	VF/Mixed/VS/VP					
		25-51"	M/SCL	F/SEXP/SS/SP					
2	LS	0-12"	gr/scl	Fr/SEXP/SS/SP	2.5Y6/2 @ 26"	25"	US	None	US
		12-25"	SBM/C	VF/EXP/VS/VP					
		25-51"	M/SCL	F/SEXP/SS/SP					
3	LS	0-16"	gr/scl	Fr/SEXP/SS/SP	755" TO SOIL WETNESS	39"	US	None	US
		16-32"	SBM/C	VF/EXP/VS/VP					
		32-39"	M/SC	VF/Mixed/VS/VP					
		39-55"	M/SCL	F/SEXP/SS/SP					
4	LS	0-2"	gr/scl	Fr/SEXP/SS/SP	752" TO SOIL WETNESS	25"	US	None	US
		2-25"	SBM/SC	VF/Mixed/VS/VP					
		25-52	M/SCL	F/SEXP/SS/SP					

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 2-10-00

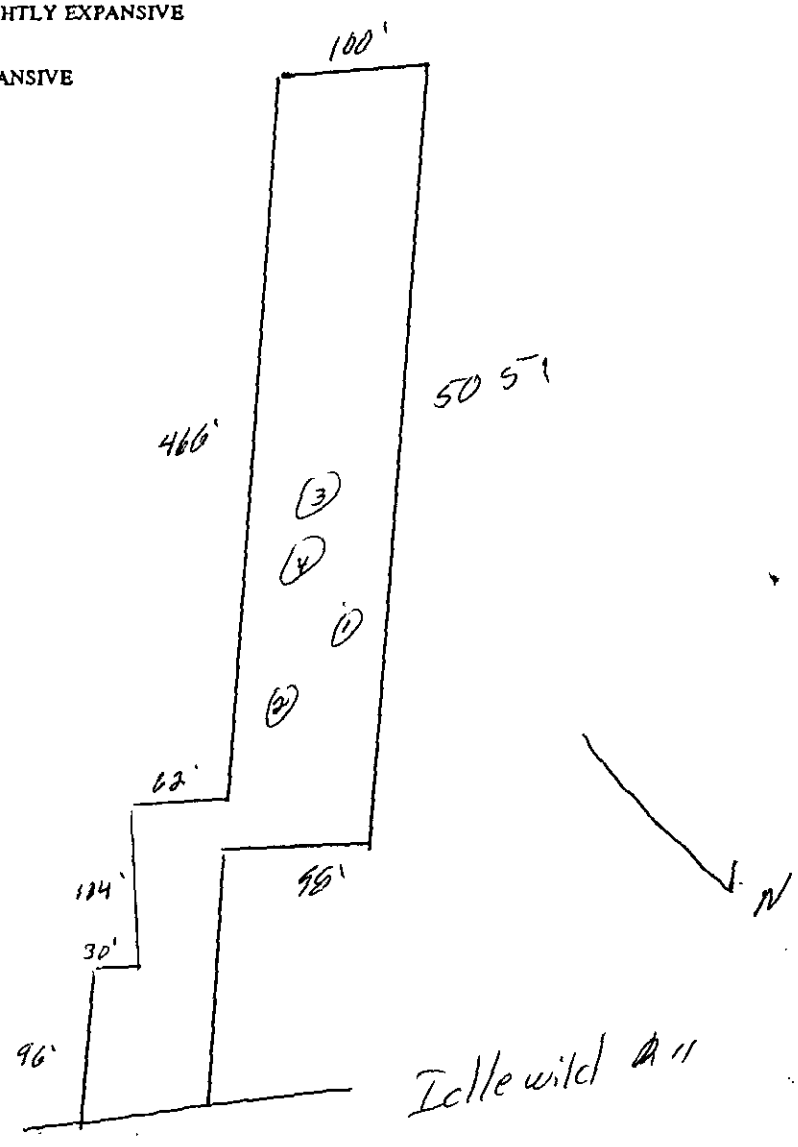
OTHER(S) PRESENT: L. Thompson, B. Hodgdon

FILE # 41663

COMMENTS Well Report

LANDSCAPE POSITION	GROUP	TEXTURE	.1955 LTAR	CONSISTENCE MOIST	CONSISTENCE WET
R-RIDGE	I	S-SAND	1.2-0.8		
S-SHOULDER SLOPE		LS-LOAMY SAND		VFR-VERY FRIABLE	NS-NON-STICKY
L-LINEAR SLOPE				FR-FRIABLE	SS-SLIGHTLYSTICKY
FS-FOOT SLOPE	II	SL-SANDY LOAM	0.8-0.6	FI-FIRM	S-STICKY
N-NOSE SLOPE		L-LOAM		VFI-VERY FIRM	VS-VERY STICKY
H-HEAD SLOPE				EFI-EXTREMELY FIRM	NP-NON-PLASTIC
CC-CONCLAVE SLOPE	III	SI-SILT	0.6-0.3		SP-SLIGHTLYSTICKY
CV-CONVEX SLOPE		SICL-SILTY CLAY LOAM			P-PLASTIC
T-TERRACE		CL-CLAY LOAM			VP-VERY PLASTIC
FP-FLOOD PLAIN		SCL-SANDY CLAY LOAM			
	IV	SC-SANDY CLAY	0.4-0.1		
		SIC-SILTY CLAY			
		O-ORGANIC			

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



FEE: 200.00 CK# 1005 DATE: 11/4/99

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

100.00 CK# 1005 DATE 11/4/99 1 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 #: 4166

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 193-051-29, 13 pt

STREET ADDRESS: IDLEWILD RD. MATHEWS NC.

SUBDIVISION OR MOBILE HOME PARK NAME:

LOT NUMBER: A

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: 1680

NUMBER OF BEDROOMS: 3 NUMBER OF OCCUPANTS: 2

CLOSING DATE 11/4/99

FOUNDATION FOR RESIDENCE:

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

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

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

WATER SUPPLY (CHECK ONE):

__ COMMUNITY (C)
✓ 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	WELL, SPRINGS OR WATERLINES	__ YES ✓ NO
EXISTING WASTEWATER SYSTEMS	__ YES ✓ NO	DESIGNATED WETLANDS	__ YES ✓ NO
EASTMENTS OR RIGHT-OF-WAYS	__ YES ✓ NO		

PROPERTY OWNER:	LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:
NAME: (LAST) SMITH (FIRST) MARK (MI) R.	NAME: (LAST) HODGDON (FIRST) BURT (MI) K
ADDRESS: 10108 IDLEWILD RD.	DAYTIME PHONE: (704) 363-2202
CITY: MATHEWS STATE: NC ZIP: 28105	
DAYTIME PHONE: 704 845-0683	

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 11/4/99

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: Burt Hodgdon DATE: 11/4/99

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

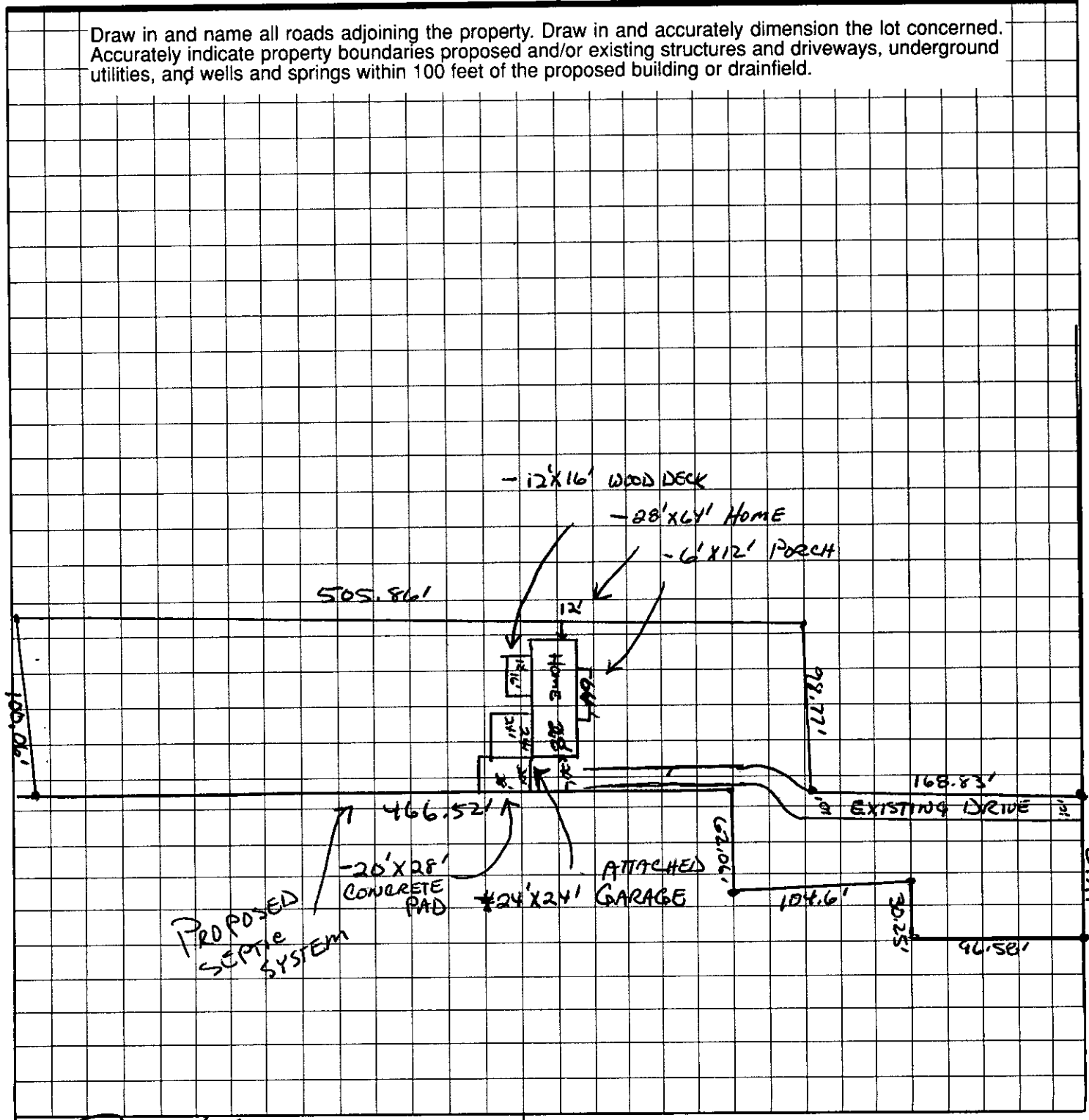
PROPOSED PLOT PLAN

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

FILE: 4166 P

TC: 193-051-13,29 PO

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.



Brent Hodgdon
OWNER/AGENT SIGNATURE

DATE 1/4/99

APPROVAL DATE _____

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

1-03-2000 1:30PM FROM FIRST VALUE HOMES 7044837426 P.2
FROM : LYNCH & DALRYMPLE PHONE NO. : 704 847 3524 Dec. 01 1999 05:31PM P2

MAP LINDSAY LN. NO SCALE

CURVE TABLE					
CURVE No.	RADIUS	DELTA	LENGTH	TANGENT	CHORD
C1	6150.61'	00°-45'-20"	81.11'	40.56'	S.30°-44'-44"E. 81.11'
C2	6150.61'	00°-20'-47"	37.19'	18.59'	S.30°-11'-41"E. 37.19'
C3	6150.61'	01°-07'-20"	120.46'	60.23'	S.29°-27'-37"E. 120.46'

OF DEEDS MECKLENBURG COUNTY

All of this is now Lot A owned by MARK

N/F LISA D. NICHOLS 8688-635

N/F P. RUSHING > WIFE RUSHING 3304-145

N. 68°-45'-53"E. 505.86'

N.32°-25'-51"W. 100.76'

EIP

MARK RAY SMITH 10425-473

BEARING BASIS LINE N. 68°-45'-40"E.

466.52'

81.72' 99.82' 99.42' 100.62' 84.34'

EIR OFFSET 0.26

N/F NEIL S. WINKLER AND WIFE KEYNA C. WINKLER 7471-587

N/F PAUL DEVALLE 4210-585

N/F PAUL DEVALLE 4210-585

LOT 7 LOT 6 LOT 5 LOT 4 LOT 3

IDLEWILD ACRES MAP BK. 1698 PG. 473

BK. 1698 PG. 473

N. 68°-45'-53"E. 16.08'

SIR

60'

55' REAR YARD

LOT B 0.378 AC.

40'

SETBACK LINE

S.32°-13'-41"E. 96.95'

N.27°-06'-45"W. 98.77'

LOT A

N.62°-29'-47"E. 104.60'

N. 68°-45'-40"E. 68.83'

N.29°-59'-37"W. 56.72'

55' YARD

N.29°-49'-40"W. 30.25'

N. 68°-45'-40"E. 96.58'

N. 68°-29'-25"E. 203.16'

COLD PROPERTY LINE PER MAP BK. 1698 PG. 473

LOT 2-A 0.812 AC.

(LOT 2 AND PART LOT 1 OF MAP BK. 1698 PG. 473)

WADE E. COLLINS (BY ENTIRETY) 3115-72 MAP BK. 1698 PG. 473

55' REAR

40'

N.21°-49'-58"W. 119.74'

B/W

(TIE ONLY) 100.14' S.68°-15'-45"W

219.15' S.68°-22'-52"W.

20

COPY

Mecklenburg County
Health Department

February 15, 2000

Mark Smith
10108 Idlewild Road
Matthews, NC 28105

Re. Idlewild Road
File: 4166B
Parcel: 193-051-13
193-051-29, 13

Dear Property Owners:

Receipt of your Application for Improvement Permit for the above referenced property is acknowledged. A soil evaluation and a site visit have been concluded. The results of the evaluation indicated that the site is **UNSUITABLE** under Rules .1941 **SOIL CHARACTERISTICS (MORPHOLOGY)**, .1942 **SOIL WETNESS CONDITIONS**, .1943 **SOIL DEPTH**, and .1945 **AVAILABLE SPACE**. For these reasons, your application for Improvement Permit is denied. A possible way to develop the site exists under Rules .1948(d), which reads as follows:

> A site classified as **UNSUITABLE** may be used for a ground absorption sewage treatment and disposal system specifically identified in Rules .1955, .1956, or .1957 of this Section or a system approved under Rule .1969 if written documentation including engineering, hydrogeologic, geologic or soil studies, indicates to the local health department that the proposed system can be expected to function satisfactorily. Such sites shall be reclassified as **PROVISIONALLY SUITABLE** if the local health department determines that the substantiating data indicate that:
>
> (1) a ground absorption system can be installed so that the effluent will be non-pathogenic, non-infectious, non-toxic, and non-hazardous;
> (2) the effluent will not contaminate ground or surface water; and
> (3) the effluent will be exposed on the ground surface or be discharged to surface waters where it could come in contact with people, animals, or vectors.

The State shall review the substantiating date if requested by the local health department.

Please be advised that you have the right to an informal review by this department. You also have the right to appeal under G.S. 130A-24, and to have the appeal held in Mecklenburg County.

If you have any questions regarding this matter, please call me at 336-5575.

Sincerely,

Kelly Randall

Kelly Randall, R.S.
Individual Water and Wastewater Systems

Mecklenburg County
Health Department

Mark Smith
10108 Idlewild Rd
Matthews NC 28105

Re: Idlewild Rd
File: 4166-B
Parcel: 193-051-29 PO

Dear Property Owners:

Receipt of your Application for Improvement Permit for the above referenced property is acknowledged. A soil evaluation and a site visit have been conducted. The results of the evaluation indicated that the site is **UNSUITABLE** under Rules .1941 .1942 .1943 .1945

For these reasons your Application for Improvement Permit is denied. A possible way to develop the site exists under Rule .1948(d), which reads as follows:

> A site classified as **UNSUITABLE** may be used for a ground absorption sewage treatment and disposal system specifically identified in Rules .1955, .1956, or .1957 of this Section or a system approved under Rule .1969 if written documentation including engineering, hydrogeologic, geologic or soil studies, indicates to the local health department that the proposed system can be expected to function satisfactorily. Such sites shall be reclassified as **PROVISIONALLY SUITABLE** if the local health department determines that the substantiating data indicate that:
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> (1) a ground absorption system can be installed so that the effluent will be non-pathogenic, non-infectious, non-toxic, and non-hazardous;
> (2) the effluent will not contaminate ground or surface water; and
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Please be advised that you have the right to an informal review by this department. You also have the right to appeal under G.S. 130A-24, and to have the appeal held in Mecklenburg County

If you have any questions regarding this matter, please call me at 336-5575.

Sincerely,

Kelly Randall, R.S.
Individual Water and Wastewater Systems

FEE: 200.00 CK # 1005

DATE: 11/4/99

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 #: 4166

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 193-051-29, 13 pt

STREET ADDRESS: IDLEWILD RD. MATTHEWS NC.

SUBDIVISION OR MOBILE HOME PARK NAME:

LOT NUMBER: A

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: 1680

NUMBER OF BEDROOMS: 3 NUMBER OF OCCUPANTS: 2

CLOSING DATE 11/4/99

FOUNDATION FOR RESIDENCE:

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

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

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

WATER SUPPLY (CHECK ONE):

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

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

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

PROPERTY OWNER:

NAME: (LAST) SMITH (FIRST) MARK (MI) R.

ADDRESS: 10108 IDLEWILD RD.

CITY: MATHEWS STATE: NC ZIP: 28105

DAYTIME PHONE: 704 845-0683

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: (LAST) HODGDON (FIRST) BURT (MI) K

DAYTIME PHONE: 704, 363-2202

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 11/4/99

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: Burt Hodgdon DATE: 1/4/99

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

DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

#3

Property ID: 193-051-29,13

Lot #:

File #: 4668

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Mark R. Smith APPLICANT: Grant Hodgdon

ADDRESS: 1026 Dillsville Road, Chester DATE EVALUATED: 2-9-00

PROPOSED FACILITY: residence PROPOSED DESIGN FLOW (.1949) 360gpd PROPERTY SIZE: 17.5

LOCATION OF SITE: Dillsville Road PROPERTY RECORDED:

WATER SUPPLY: ☐Private ☑Public ☐Well ☐Spring ☐Other

EVALUATION METHOD: ~~Auger Boring~~ ☑Pit ☐Cut

TYPE OF WASTEWATER: ☑Sewage ☐Industrial Process ☐Mixed

PROFILE #	Slopes 6-15% .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	0-7"	gr/sl	Fr/SEXP/NS/NP	7.5Y" TO 5Y 5/1 wetness	25"	US	None	US
		7-10"	SBM/scl	Fr/SEXP/SS/SP					
		10-18"	SBM/sc	VF:/Mixed/VS/VP					
		18-25"	M/sc	VF:/Mixed/VS/VP					
		25-51"	M/scl	F:/SEXP/SS/SP					
2	LS	0-12"	gr/scl	Fr/SEXP/SS/SP	2.5Y 6/2 @ 26"	@5"	US	None	US
		12-25"	SBM/c	VF:/EXP/VS/VP					
		25-51"	M/scl	F:/SEXP/SS/SP					
3	LS	0-16"	gr/scl	Fr/SEXP/SS/SP	7.5Y" TO 5Y 5/1 wetness	39"	US	None	US
		16-32"	SBM/c	VF:/EXP/VS/VP					
		32-39"	M/sc	VF:/Mixed/VS/VP					
		39-55"	M/scl	F:/SEXP/SS/SP					
4	LS	0-2"	gr/scl	Fr/SEXP/SS/SP	7.5Y" TO 5Y 5/1 wetness	25"	US	None	US
		2-25"	SBM/sc	VF:/Mixed/VS/VP					
		25-52	M/scl	F:/SEXP/SS/SP					

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 2-10-00

OTHER(S) PRESENT: L. Thompson, B. Hodgdon

FILE # 41669

COMMENTS WTE Repairs

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

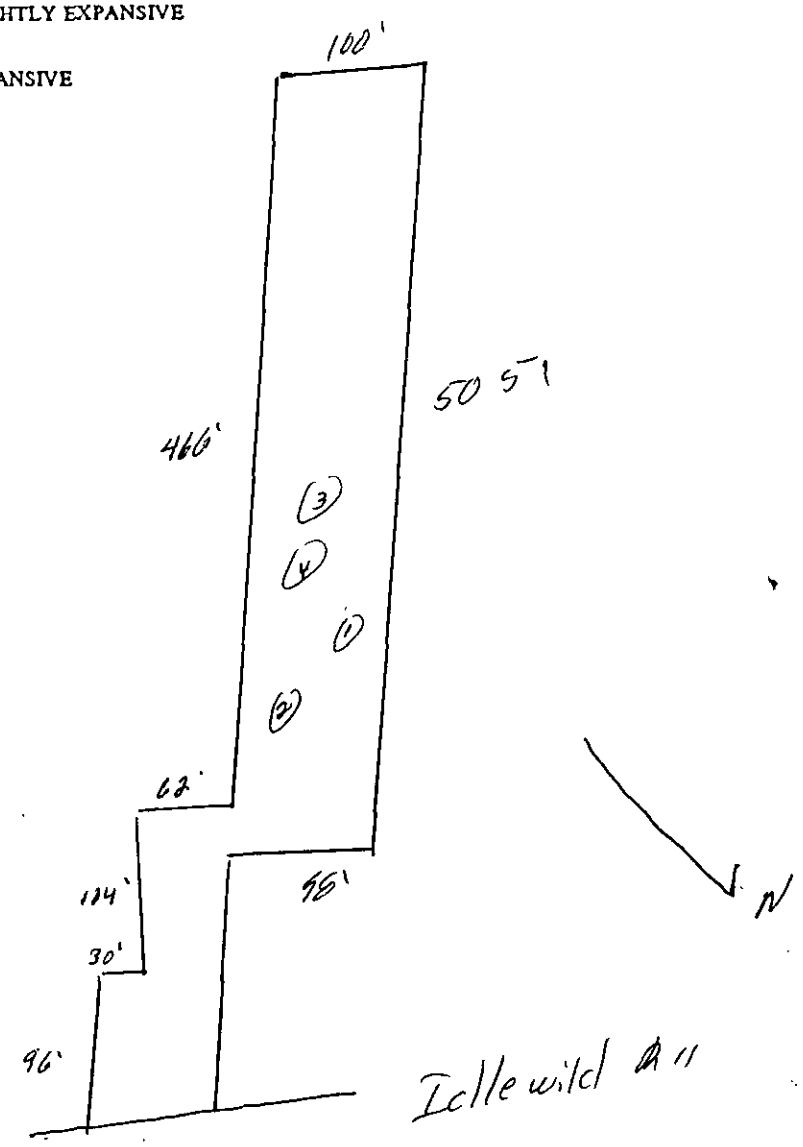
STRUCTURE

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

MINERALOGY

SLIGHTLY EXPANSIVE

EXPANSIVE



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

Sheet: _____
Property ID: PO 193-051-29.13
Lot #: _____
File #: 4166B

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Mark R. Smith APPLICANT: Bart Hodgdon
ADDRESS: 10108 Idlewild Rd, Charlotte DATE EVALUATED: 1-11-00
PROPOSED FACILITY: residence PROPOSED DESIGN FLOW (.1949) 360gpd / PROPERTY SIZE: 1.5 ±
LOCATION OF SITE: Idlewild Rd 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 6-12%)	Horizon Depth (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS &LTAR
1	LS	0-3"	gr/sl	Fr/SEXP/NS/NP	2.5Y6/2 @25"	29"	N/A	None	US
		3-7"	gr/scl	Fr/SEXP/SS/SP					
		7-23"	SBK/C	VF:/EXP/VS/VP					
		23-29"	SBK/SC	VF:/EXP/VS/VP					
2	LS	0-5"	gr/sl	Fr/SEXP/NS/NP	>22" TO soil wetness	22"	N/A	None	US
		5-22"	SBK/C	VF:/EXP/VS/VP					
3	LS	0-4"	gr/scl	Fr/SEXP/SS/SP	>19" TO soil wetness	19"	N/A	None	US
		4-19"	SBK/SC	VF:/EXP/VS/VP					
4	LS	0-16"	gr/scl	Fr/SEXP/SS/SP	>39" TO soil wetness	39"	N/A	None	US
		16-39"	SBK/scl	F:/Mixed/VS/VP					
		Soil very wet @ 30"							
5	LS	0-2"	gr/c	Fr/SEXP/SS/SP	>16" TO soil wetness	16"	N/A	None	US
		2-16"	SBK/C	VF:/EXP/VS/VP					
6	LS	0-3"	gr/scl	Fr/SEXP/SS/SP	2.5Y 6/2 @29"	36"	N/A	None	US
		3-29"	SBK/SC	VF:/Mixed/VS/VP					
		29-36"	SBK/SCL	Fr/SEXP/SS/SP					
7	LS	0-3"	gr/sl	Fr/SEXP/NS/NP	>22" TO soil wetness	22"	N/A	None	US
		3-22"	SBK/SC	VF:/Mixed/VS/VP					
8	LS	0-3"	gr/scl	Fr/SEXP/SS/SP	>29" TO soil wetness	29"	N/A	None	US
		3-29"	SBK/SC	VF:/Mixed/VS/VP					

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. Medlin LSS 1-12-00
OTHER(S) PRESENT: M. Smith, B. Hodgdon

FILE # 4166B

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	WET
VFR-VERY FRIABLE	NS-NON-STICKY
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MINERALOGY

SLIGHTLY EXPANSIVE

EXPANSIVE

