

4633 RIVER BLUFF CT

11322346

12/27/2007

duponbj

Groundwater and Wastewater Services File Imaging Project

May 2007

Barcode Font = IDAutomationHC39M

CERTIFICATE OF COMPLETION/OPERATION PERMIT

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

FILE: 2260B DATE: 02/04/00

TC: 113-221-14 ☐ L ☒ CRT

SERIAL Nº 18074

Name of Owner Stover-Pearson, LLC Juris.: _____

Address of Property 4633 River Bluff Court

Inspection Data:

Tank Material PCC

Total Length of Drainfield 300' (2 lines x 50')

Number of Lines 5 lines @ 60'

Cover Depth 6"

Water Supply Source Comm. Well

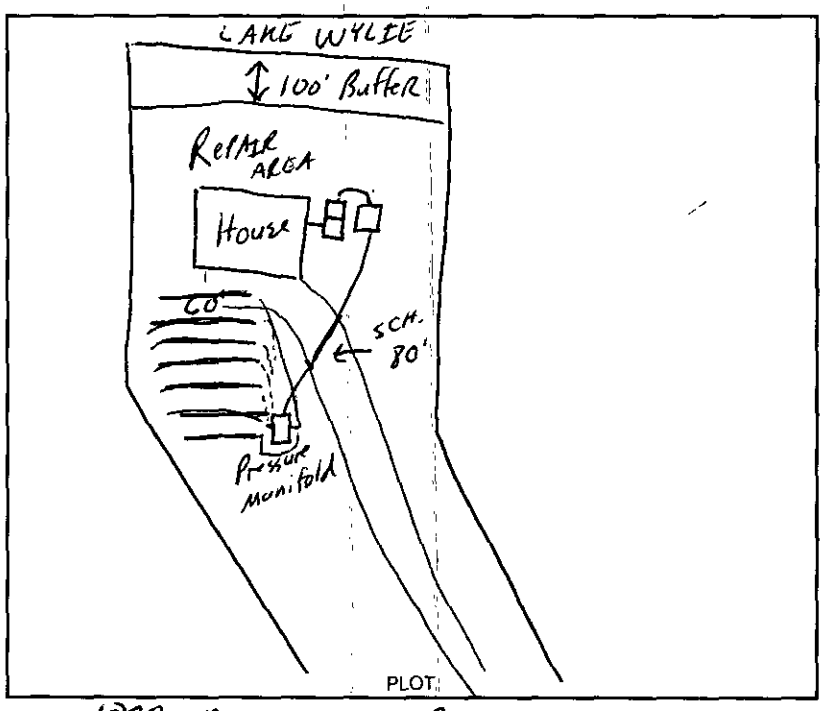
Distance to Water Source > 100'

Excavation Inspected 2/4/00

Tank(s) Inspected 2/4/00

Wash Line Inspected NA

High Water Alarm Inspected 2/4/00



Design 2000, 1500 ST, 1000 DT, PI, ~~900~~ 1200 spm SFT, INV, Pressure MANIFOLD CTR# STANLEY

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 I5A 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 I5A 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: System designed for ~~Three (3)~~ Four (4) spm Bedroom Residence.

Type IIIb Innovative system (EEE-222 CAY) (400 TLF)

5 lines (2 lines x 50' x 3') x 60' x 3' NEMA 4X Alarm Box.

→ 100' Additional line added 3/7/00 to support 4 Bedroom House.

→ STAIRS TO Deck Moved 4/6/00 to achieve >5 from septic tank.

Jeremy P. Michalone
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: 2260 B DATE: 1-12-00

TC: 113-221-14 XL

SERIAL No 18337

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 10-6-97. All work shall be completed on or before 2-12-00, 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.

- Install according to approved plans
- Pressure manifold & Nema 4x simplex control panel required
- Not able to walk through house on the 12th - need to verify that this is a 3 bedroom house.

PLOT OF SYSTEM

Liquid Capacity of Septic Tank 1500 gallons

Liquid Capacity of Dosing Tank 1000 gallons

Tank Construction PCC

Trench Depth 18"

Absorption and/or Nitrification Lines:

Trench Width 3 feet

Trench Walls Scored and Porous Yes

Total Line Length 300 feet

Number of Lines 5

Depth of Stone N/A inches

Distance from House 5 - regular 15 - basement feet

Distance from Property Line 10 feet

Distance from Well > 50 feet

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

NAME OF OWNER Stover - Pearson, LLC

LOCATION OF PROPERTY 4633 River Bluff Court

Comments: Type IIIb 3 bedrooms

(6) (5) 60'L x 18" deep innovative drain lines

LB Thompson, J., R.S.
Environmental Health Specialist

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

CHK #8157

FEE: 210 **AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION**
DATE: 2/24/99 **VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE**

DATE: 2-22-99 PERMIT NO: 2260 B
PARCEL NO: 113-221-14[illegible]
JOB LOCATION ADDRESS: River Bluff Court
PROPERTY OWNER: Stover-Pearson, LLC
BUILDING CONTRACTOR:
SUBDIVISION NAME: River Walk Plantation
AUTHORIZATION ISSUED BY: Jonny B. Thompson, Jr. L.S. DATE: 2-22-99
DEHNR AUTHORIZED AGENT

AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NO. 2260B, 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 [signature] 2-24-99
SIGNATURE OF OWNER/OWNER'S REPRESENTATIVE DATE

CONDITIONS OF IMPROVEMENT PERMIT

Permit Number: 22606

Tax Number: 113-221-03 Ro

- 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)	
Yes Community 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: * Nemalk simplex control and alarm panel required at the pump tank.

Additional Conditions: - House site and driveway must conform to approved plan. - Agreement forms required - Septic tank riser and effluent filter rules apply - Recommend installation of septic riser on effluent outlet end to ease servicing effluent filter - reinspection fees may apply if riser is NOT installed on septic tank

Repair Area System Type Type (circle one): I II III IV V VI	3 total ___ 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	
2769 Absorption Area (Sq ft) 534 Total Trench Length (Ft)	10" 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.

Larry B. Thompson Jr., L.S. 2-22-99 — DEHNR Authorized Agent — Date

X Jeffrey W Shu — Owner/Agent Signature — 2-24-99 — 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

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

#2

Sheet: _____
Property ID: po 113-21-14
Lot #: 36
File #: 22603

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Moore-Pearson LLC
APPLICANT: _____
ADDRESS: 210 E. Muscadine Dr, Jacksonville
DATE EVALUATED: 3-25-99
PROPOSED FACILITY: residence
PROPOSED DESIGN FLOW (.1949) 360 gpd
PROPERTY SIZE: .86
LOCATION OF SITE: River Bluff
PROPERTY RECORDED: _____
WATER SUPPLY: ☐Private ☐Public ☐Well ☐Spring ☒Other Shared well
EVALUATION METHOD: ☐Augur Boring ☒Pit ☐Cut
TYPE OF WASTEWATER: ☐Sewage ☐Industrial Process ☐Mixed

PROFILE #	.1940 Landscape Position/ Slope % (10-20c)	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	0-22"	SBK/fr	Fri/SE x P/ ~~SS~~ SP	7.5YR 749" TO soil wetness	47"	US	None	US LD
		22-47"	M/C	Fr/SE x P/ SS/SP					
2	LS	0-9"	Compact Tec	—	7.5YR 754" TO soil wetness	54"	US	None	US IV
		9-25"	SBK/C	Fi/SE x P/SS/P					
		25-26"	SBK/fr	Fv/SE x P/SS/SP					
		26-54"	M/fr	Fv/SE x P/SS/SP					

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

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): Unsuitable
EVALUATED BY: W. R. Mullis 3-26-99
OTHER(S) PRESENT: LSS

FILE # 22601

COMMENTS pits for septic evaluation

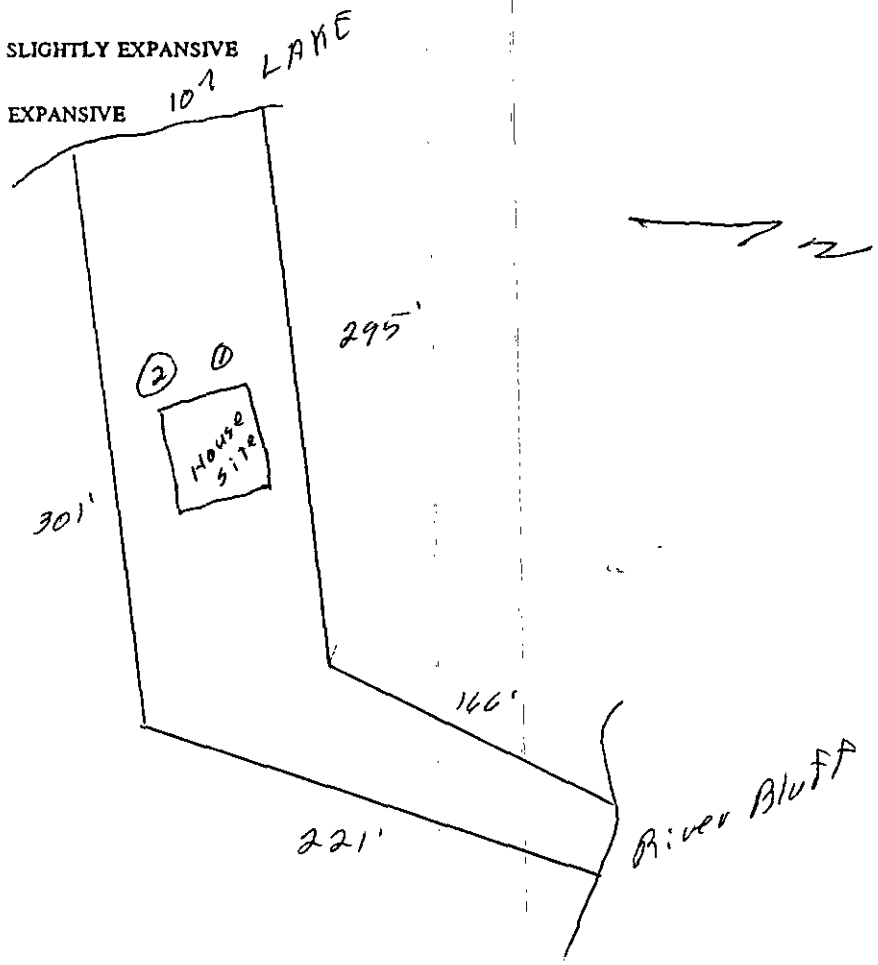
LANDSCAPE POSITION	GROUP	TEXTURE	.1955 LTAR	CONSISTENCE MOIST	CONSISTENCE WET
R-RIDGE	I	S-SAND	1.2-0.8		
S-SHOULDER SLOPE		LS-LOAMY SAND		VFR-VERY FRIABLE	NS-NON-STICKY
L-LINEAR SLOPE				FR-FRIABLE	SS-SLIGHTLYSTICKY
FS-FOOT SLOPE	II	SL-SANDY LOAM	0.8-0.6	FI-FIRM	S-STICKY
N-NOSE SLOPE		L-LOAM		VFI-VERY 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

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

MINERALOGY

SLIGHTLY EXPANSIVE
EXPANSIVE



FEE: 100 CK# 1 DATE: 10/7/97 gc

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

3 bdrm pd CK# 8835 10/3/97 gc 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 #: [redacted] 22603

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION: PO 113-221-14

TAX/PARCEL NUMBER: TRACT 101, 102, 113

STREET ADDRESS: AMOS SMITH ROAD

SUBDIVISION OR MOBILE HOME PARK NAME: RIVER WALKE PLANTATION

LOT NUMBER: 36

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:

NUMBER OF BEDROOMS: NUMBER OF OCCUPANTS:

FOUNDATION FOR RESIDENCE:

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

CLOSING DATE _____

Site visit to lot marked 12-13-99 to collect samples for mechanical analysis
WAM - 12-13-99

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: STOVER - PEARSON, LLC
(LAST) (FIRST) (MI)

ADDRESS: 710 So. MARIETTA ST., SUITE 200

CITY: GASTONIA STATE: NC ZIP: 28052

DAYTIME PHONE: (704) 867 - 5002

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: ① PEARSON, JOE ② PEARSON, ROB
(LAST) (FIRST) (MI)

DAYTIME PHONE: (704) 867 - 5002

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: Robert S. Pearson DATE: 10/6/97

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

1-0 - 22" c SAWKIL

22 - 47" c I M

2-0 - [illegible] c M

4 - 25" c SM

2-5 - 28 c I SM

28 - 54" c I M

Bill Marlin / STOVER CONST 336-6894

LOT # 36 BEVERLY PLANTATION
12-22-99

PSI Information To Build On
Engineering • Consulting • Testing

Facsimile Transmittal Sheet

DATE: 12-21-99 TIME: 9:20 am pm

TOTAL NUMBER OF PAGES 5
IF YOU DO NOT RECEIVE ALL PAGES PLEASE CALL SENDER ASAP.

To:

NAME: Jeff Stover
FIRM: Stover Construction
CITY: Gastonia, NC
FAX #: 704/866-4587

From:

NAME: Jennifer Payne
PLEASE DELIVER AS SOON AS POSSIBLE. OPERATOR INITIALS: JP

Writer's direct fax: (704) 598-2236

NOTES: Jeff,
The % of sand, silt & clay are taken from the enclosed table/graphs:
Sand: 37.8%

PSI Information To Build On
Engineering • Consulting • Testing

Project: Stover Sample No: 149

Hydrometer No.: 152H Spec. Gravity: 2.70 Composite Correction: -4
Correction factor: 0.99

Air Dry Sample Data

Tare No.: 2
Weight Tare: 16.54
Weight Tare & Soil: 64.69

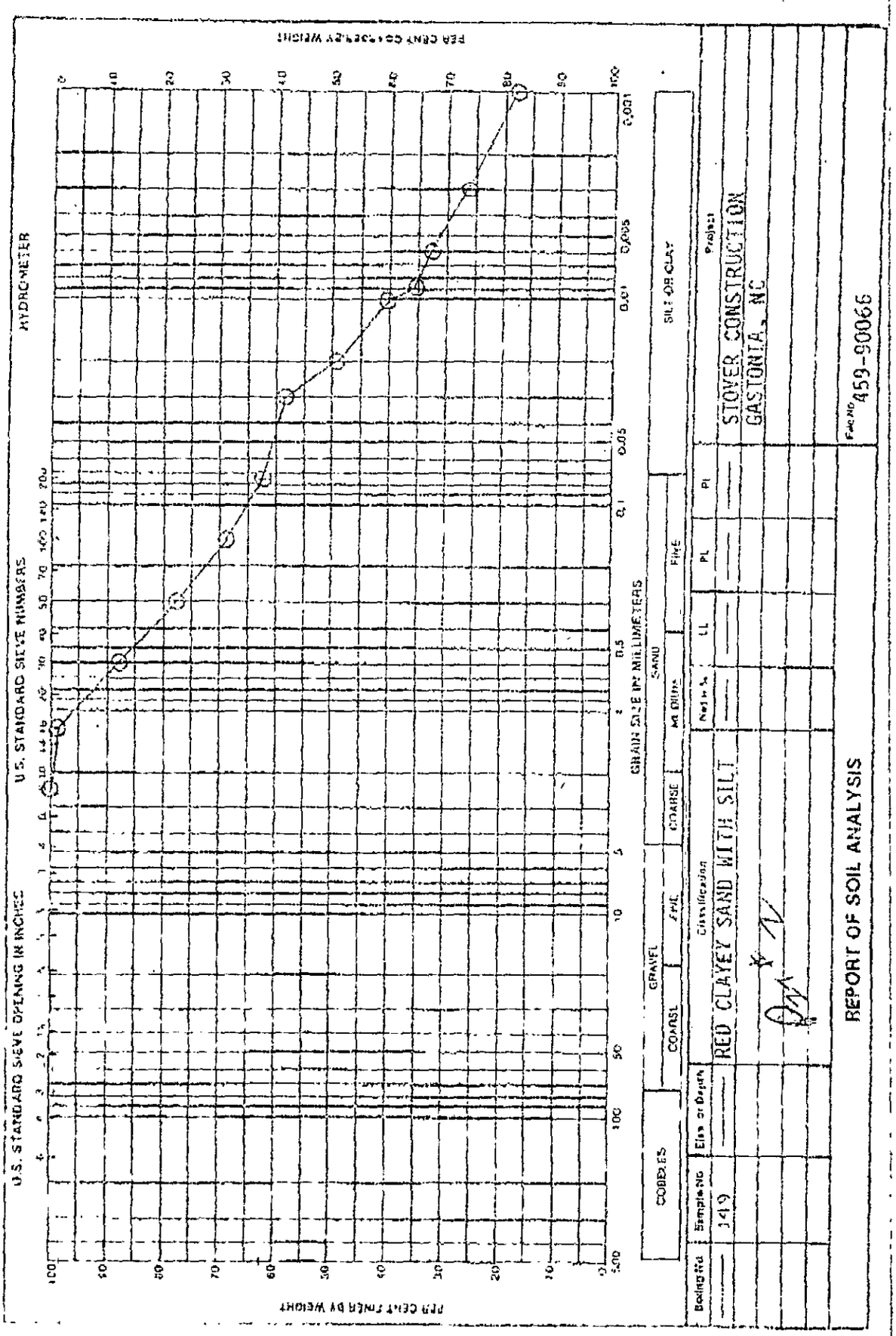
Hydroscopic Moisture Data

Tare No.: 2
Weight Tare: 16.54
Weight Tare & Wet Soil: 65.5
Weight Tare & Dry Soil: 62.2
Moisture Content: 0.072
Corrected Dry Weight: 44.90

Sieve Analysis

U.S. STD. Sieve Size	Opening mm	Cumulative Weight Ret.	Cumulative % Retained	Cumulative % Passing
No.4	4.75	0	0.0	100.0
No.8	2.36	0	0.0	100.0
No.16	1.18	0.4	0.9	99.1
No.30	0.600	5.56	12.4	87.6
No.50	0.300	10.34	23.0	77.0
No.100	0.150	13.91	31.0	69.0
No.200	0.075	16.98	37.8	62.2

Time of Reading	Elapsed Time Min.	Temp. °F	Temp. °C	Actual Reading	Composite Corrected	Percent Finer	Constant (K)	Effective Depth (L)	Diameter (mm)
12/15/99 18:15	0.5	75	24	31.5	27.5	60.6	0.01282	11.8	0.062
18:16	1	75	24	31	27	59.5	0.01282	11.9	0.044
18:17	2	75	24	30.5	26.5	58.4	0.01282	11.95	0.031
18:20	5	75	24	26.5	22.5	49.6	0.01282	12.6	0.020
18:30	15	75	24	22.5	18.5	40.8	0.01282	13.25	0.012
18:45	30	75	24	20	16	35.3	0.01282	13.7	0.009
18:30	60	75	24	19	15	33.1	0.01282	13.8	0.006
22:25	250	75	24	16	12	26.5	0.01282	14.3	0.003
12/16/99 18:15	1440	75	24	12	8	17.6	0.01282	15	0.001


HYDROMETER
U.S. STANDARD SIEVE NUMBERS
U.S. STANDARD SIEVE OPENING IN INCHES
GRAIN SIZE IN MILLIMETERS
PER CENT FINER BY WEIGHT
PER CENT COARSER BY WEIGHT
GRAVEL
SAND
SILT OR CLAY
COARSE
FINE
COARSE
MEDIUM
FINE
CODED ES
Boring No.
Sample No.
Elev. or Depth
Classification
Nat. W %
LL
PL
PI
Project
STOVER CONSTRUCTION
GASTONIA, NC
FAC NO. 459-90066
RED CLAYEY SAND WITH SILT
349
REPORT OF SOIL ANALYSIS

PSI Information To Build On
Engineering • Consulting • Testing

Project: Stover Sample No: 150

Hydrometer No 152H Spec Gravity: 2.70 Composite Correction 4
Correction factor: 0.99

Air Dry Sample Data

Tare No.: 2
Weight Tare 16.54
Weight Tare & Soil 64.31

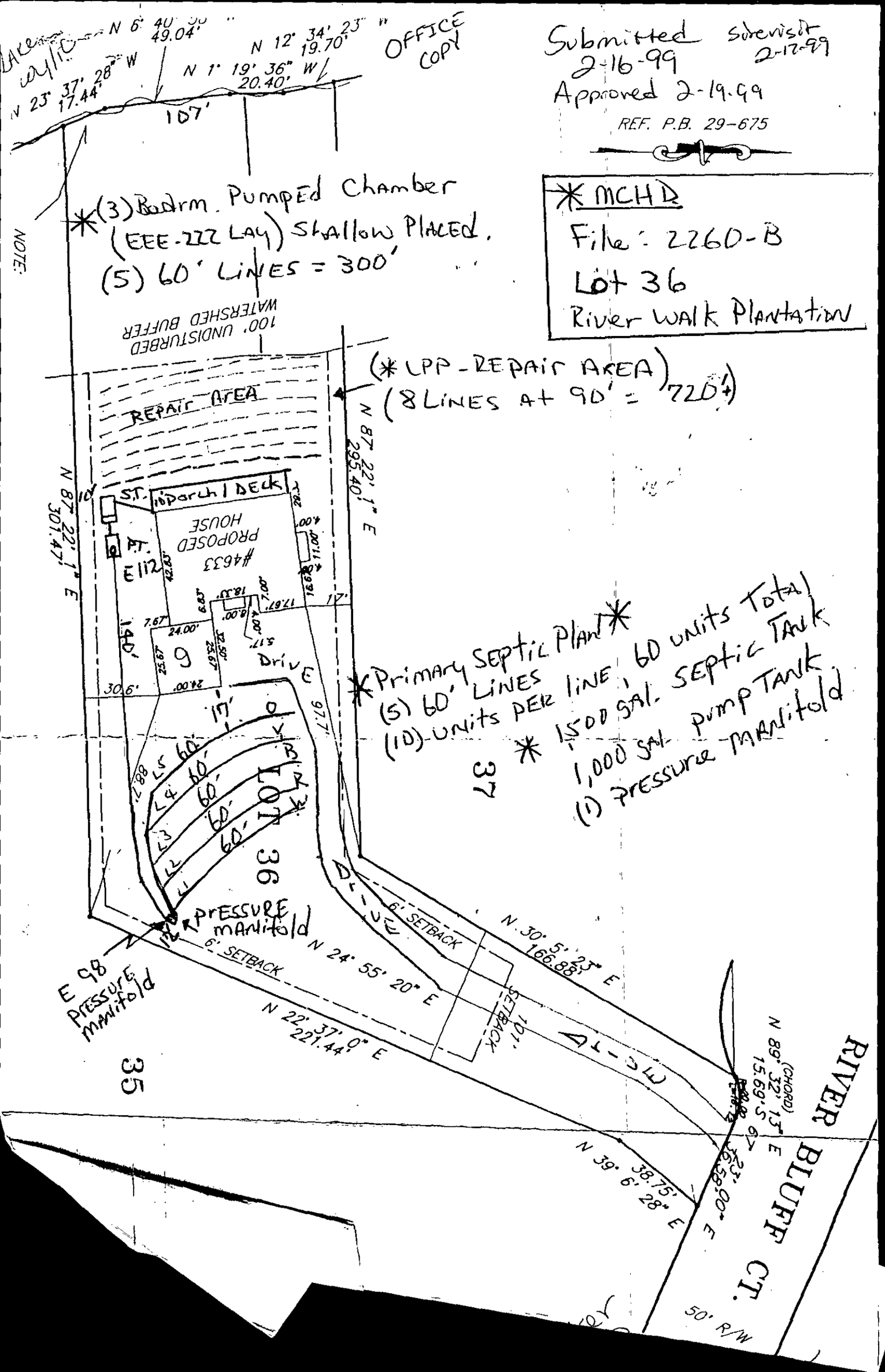
Hygroscopic Moisture Data

Tare No.: C
Weight Tare 16.95
Weight Tare & Wet Soil 37.63
Weight Tare & Dry Soil 35.99
Moisture Content 0.081
Corrected Dry Weight: 44.20

Sieve Analysis

U.S. STD. Sieve Size	Opening mm	Cumulative Weight Ret.	Cumulative % Retained	Cumulative % Passing
No.4	4.75	0	0.0	100.0
No.8	2.36	0	0.0	100.0
No.16	1.18	0.52	1.2	98.8
No.30	0.600	2.06	4.7	95.3
No.50	0.300	5.67	12.8	87.2
No.100	0.150	9.69	21.9	78.1
No.200	0.075	14.29	32.3	67.7

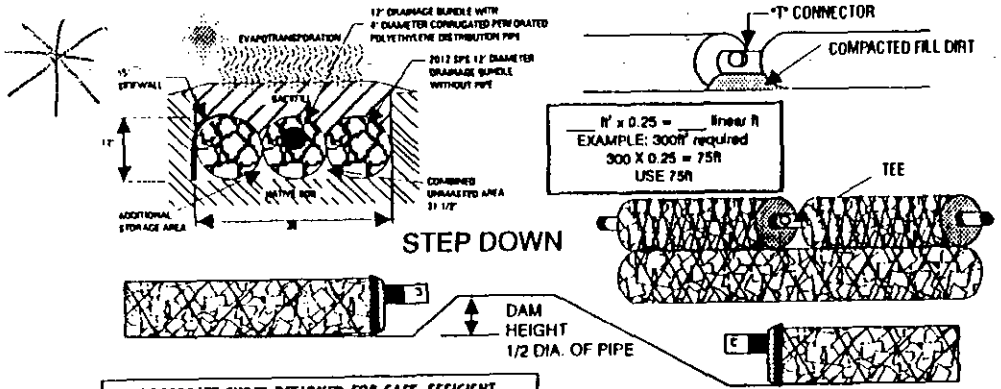
Time of Reading	Elapsed Time Min	Temp °F	Temp °C	Actual Reading	Composite Corrected	Percent Finer	Constant (K)	Effective Depth (L)	Diameter (mm)
12/15/99 18:15	0.5	75	24	33	29	65.0	0.01282	11.5	0.061
18:16	1	75	24	29.5	25.5	57.1	0.01282	12.1	0.045
18:17	2	75	24	27.5	23.5	52.6	0.01282	12.45	0.032
18:20	5	75	24	23	19	42.6	0.01282	13.2	0.021
18:30	15	75	24	17.5	13.5	30.2	0.01282	14.1	0.012
18:45	30	75	24	16	11	24.6	0.01282	14.5	0.009
19:30	60	75	24	13	9	20.2	0.01282	14.8	0.006
22:28	250	75	24	9	5	11.2	0.01282	15.5	0.003
12/16/99 18:15	1440	75	24	8	4	9.0	0.01282	15.6	0.001


OFFICE COPY
Submitted 2-16-99
Approved 2-19-99
Site visit 2-17-99
REF. P.B. 29-675
*MCHD
File: 2260-B
Lot 36
River Walk Plantation
*(3) Bedrm. Pumped Chamber
(EEE-222 Lay) Shallow Placed.
(5) 60' Lines = 300'
(*LPP - Repair Area)
(8 Lines at 90' = 720'±)
Repair Area
100' Undisturbed Watershed Buffer
Note:
N 6° 40' 00" W 49.04'
N 12° 34' 23" W 19.70'
N 1° 19' 36" W 20.40'
N 23° 37' 28" W 17.44'
107'
N 87° 22' 1" E 295.40'
N 87° 22' 1" E 301.47'
St.
Porch / Deck
Prop. House #4633
P.T. E 112
140'
30.6'
Drive
17'
Primary Septic Plant
(5) 60' Lines
(10) Units per line, 60 units Total
* 1500 gal. Septic Tank
1,000 gal. pump Tank
(1) Pressure Manifold
L1 60'
L2 60'
L3 60'
L4 60'
L5 60'
36
37
35
Pressure Manifold
E 98
6' Setback
N 24° 55' 20" E
N 22° 37' 0" E 221.44'
N 30° 5' 23" E 166.88'
N 39° 6' 28" E 38.75'
N 89° (Chord) 32' 15" E 15.69' S 9
S 89° 58' 0" E 232.90'
River Bluff Ct.
50' R/W

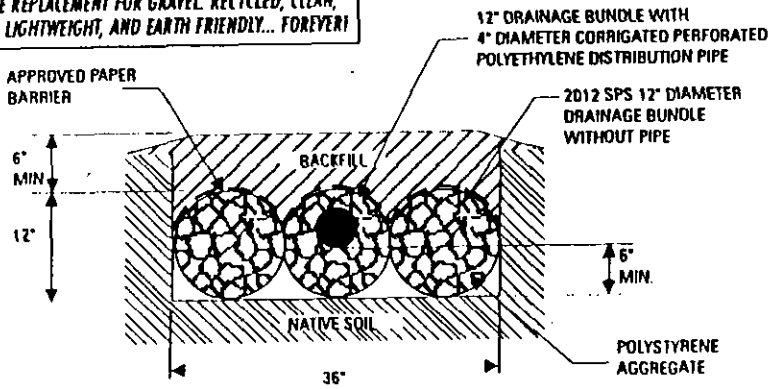
EEE ZZZ Lay Drain Company
2012 Shallow Placement
Septic Effluent Disposal System

1. This system may be placed in a 36" wide trench with a minimum trench depth of 18."

2. The trench length modification is justified by the lack of fines, stone masking, highly reduced compaction on the bottom area along with the extra infiltrative surface area of the cylindrical shape, all contribute to bring you one of the most effective, time-proven, cost-effective system available. this system as with all other EEE ZZZ Lay Drain systems is fast, easy, and reliable.

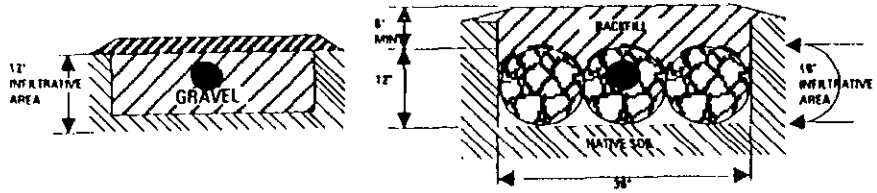


AGGREGATE CUBES DESIGNED FOR SAFE, EFFICIENT, RELIABLE REPLACEMENT FOR GRAVEL. RECYCLED, CLEAN, UNIFORM, LIGHTWEIGHT, AND EARTH FRIENDLY... FOREVER!



CONVENTIONAL SYSTEM

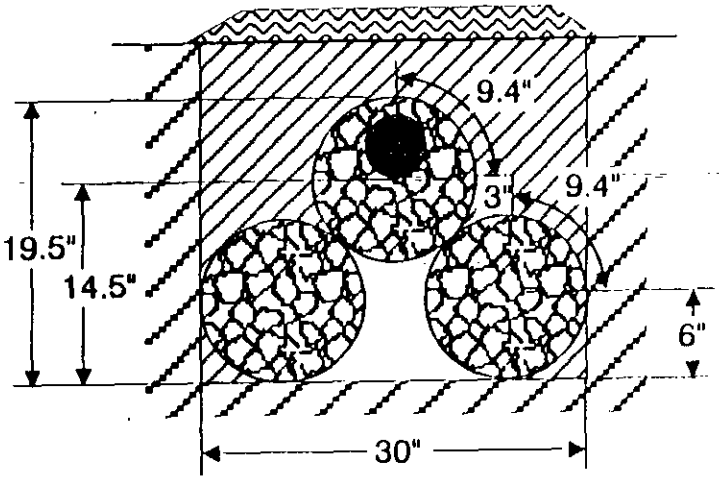
EEE ZZZ LAY DRAIN SYSTEM



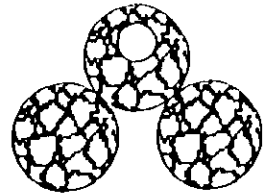
EFFECTIVE SIDEWALL INFILTRATIVE AREA

Analytical Methods for Sizing Alternative Drainfields

Calculations for sizing of the 12" 3-unit Triangular Installation in a 30-inch wide trench:



_____Sq. Ft. x 0.24 = _____Linear Feet



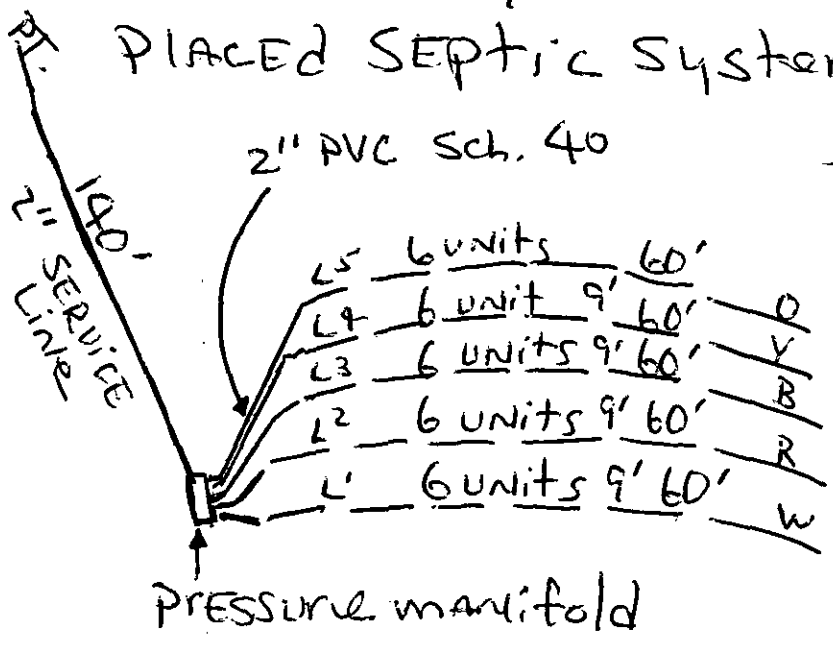
2012 TRIANGULAR SYSTEM

This system is the most effective and reliable system available. This system installs in a 30" wide trench at a minimum depth of 24" (6" cover). The triangular configuration has more sidewall soil interface than any system on the market today! At 72' per 100', this system is more than adequate in replacing conventional systems.

SPECS:

mcHD
File: 2260-B

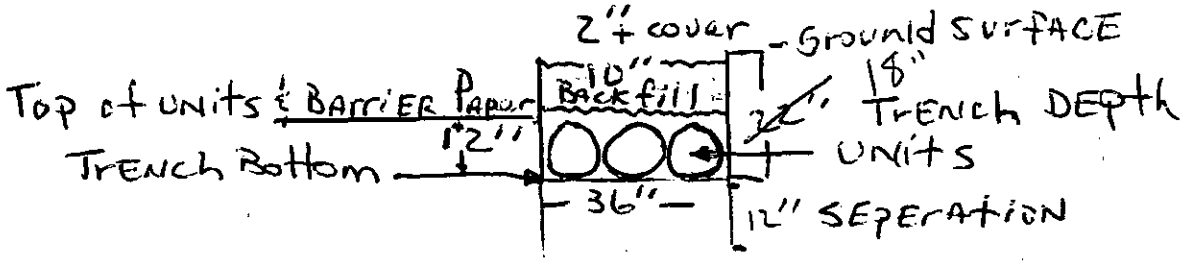
(3) Bedrm. Pumped, Pressure manifold, EEE-222 LAY chamber (2012) shallow PLACED SEPTIC System. (LPP REPAIR)



* 300' Total
6 UNITS PER LINE: 60
* 60 UNITS Total

* Trench Profile

* Shallow Placement - Trench Depth ~~22"~~ 18"
* 12" Backfill on Entire Sys.



* RISER & Filter RULES APPLY. (Installers choice) Riser recommended over the outlet end of the septic tank - Reinspection fees may be required if riser is not installed.

not scaled

Pg. A

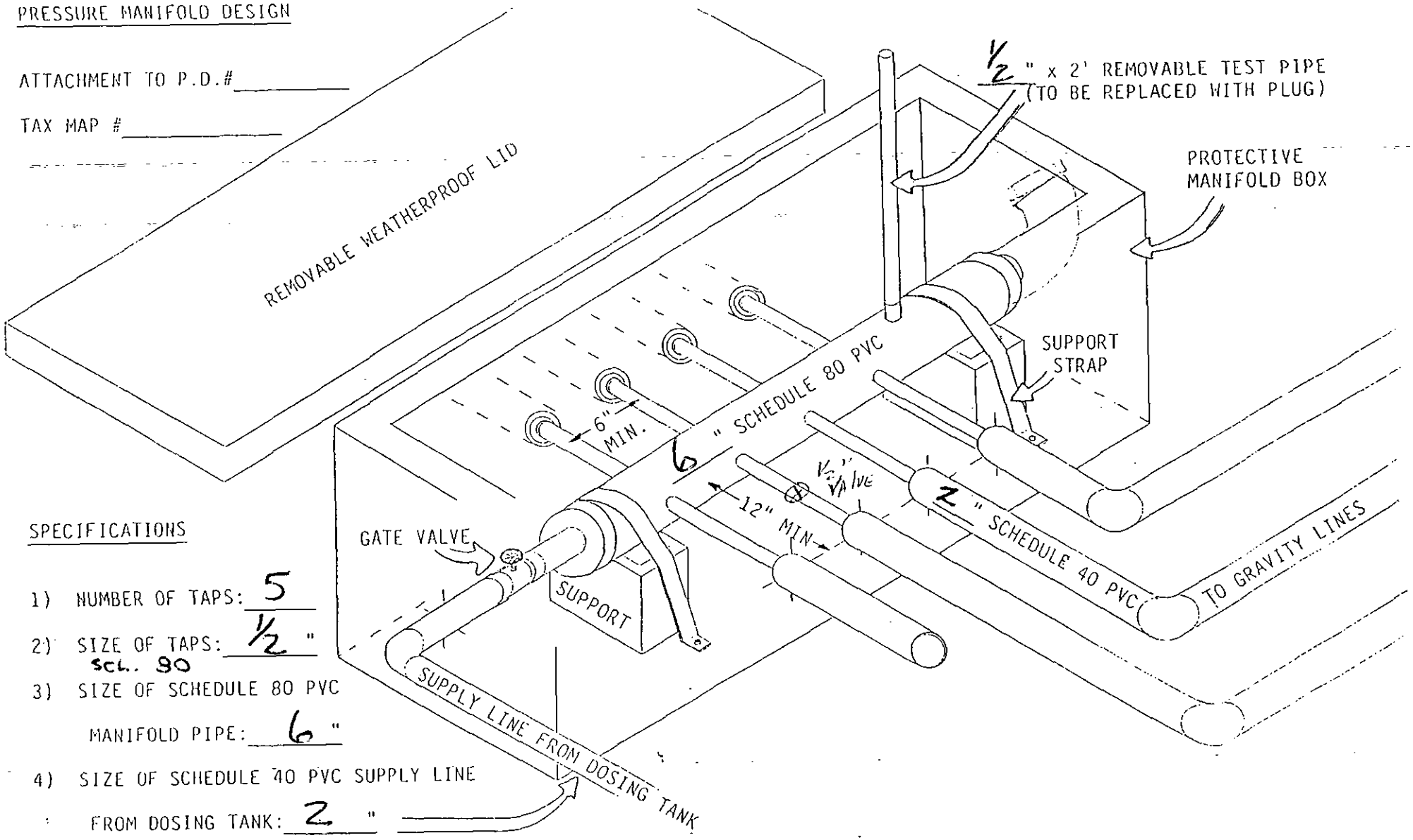
File: 2260-B

* SEE ATTACHMENTS PGS. 1-3

PRESSURE MANIFOLD DESIGN

ATTACHMENT TO P.D.#_____

TAX MAP #_____



SPECIFICATIONS

1) NUMBER OF TAPS: 5

2) SIZE OF TAPS: 1/2 " sch. 80

3) SIZE OF SCHEDULE 80 PVC MANIFOLD PIPE: 6 "

4) SIZE OF SCHEDULE 40 PVC SUPPLY LINE FROM DOSING TANK: 2 "

M.C.H.D.

File: 2260-B

SPECS:

* PRESSURE manifold - SEE PSS. 1-3, PS-A

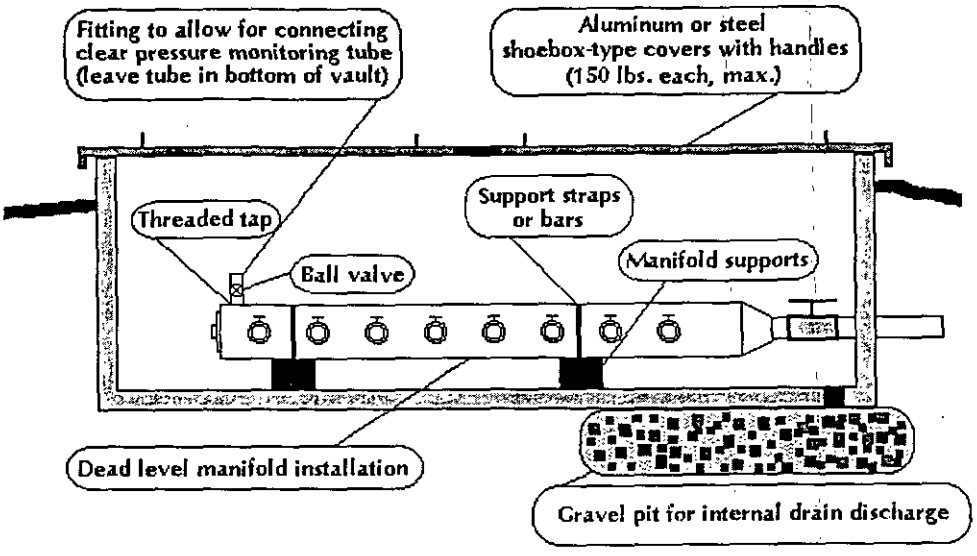
Pump Tank Elevation = 112.0
PRESSURE manifold E = 98.0

27.4 gpm @ 120 TDH

Pump size .4 HP
7" Drawdown 5.5 min. pump cycle

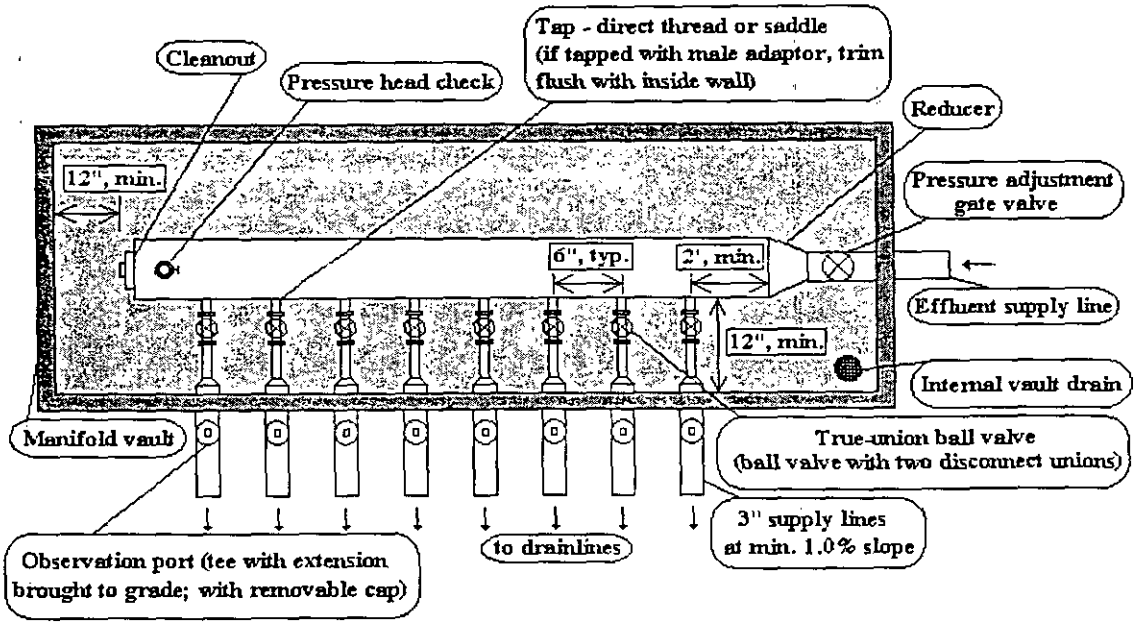
* SEE Pump Tank SPEC. Sheet
* Riser & Filter RULES Apply.

T. Whitaker
866-9540



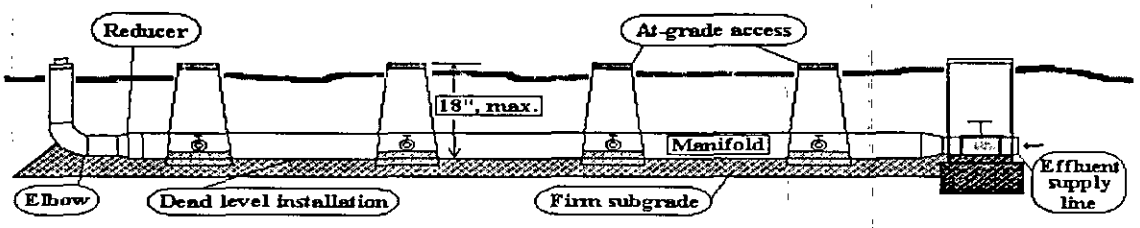
Profile View of Pressure Manifold for Sloping Site Installation

(not to scale)



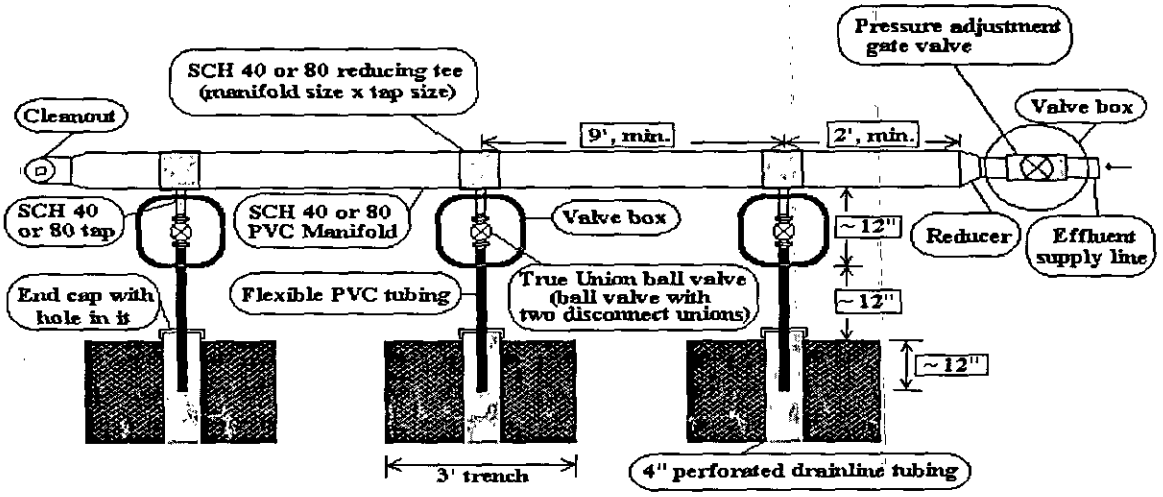
Plan View of Pressure Manifold for Sloping Site Installation

(not to scale)



Profile View of Pressure Manifold for Level Site Installation

(not to scale)

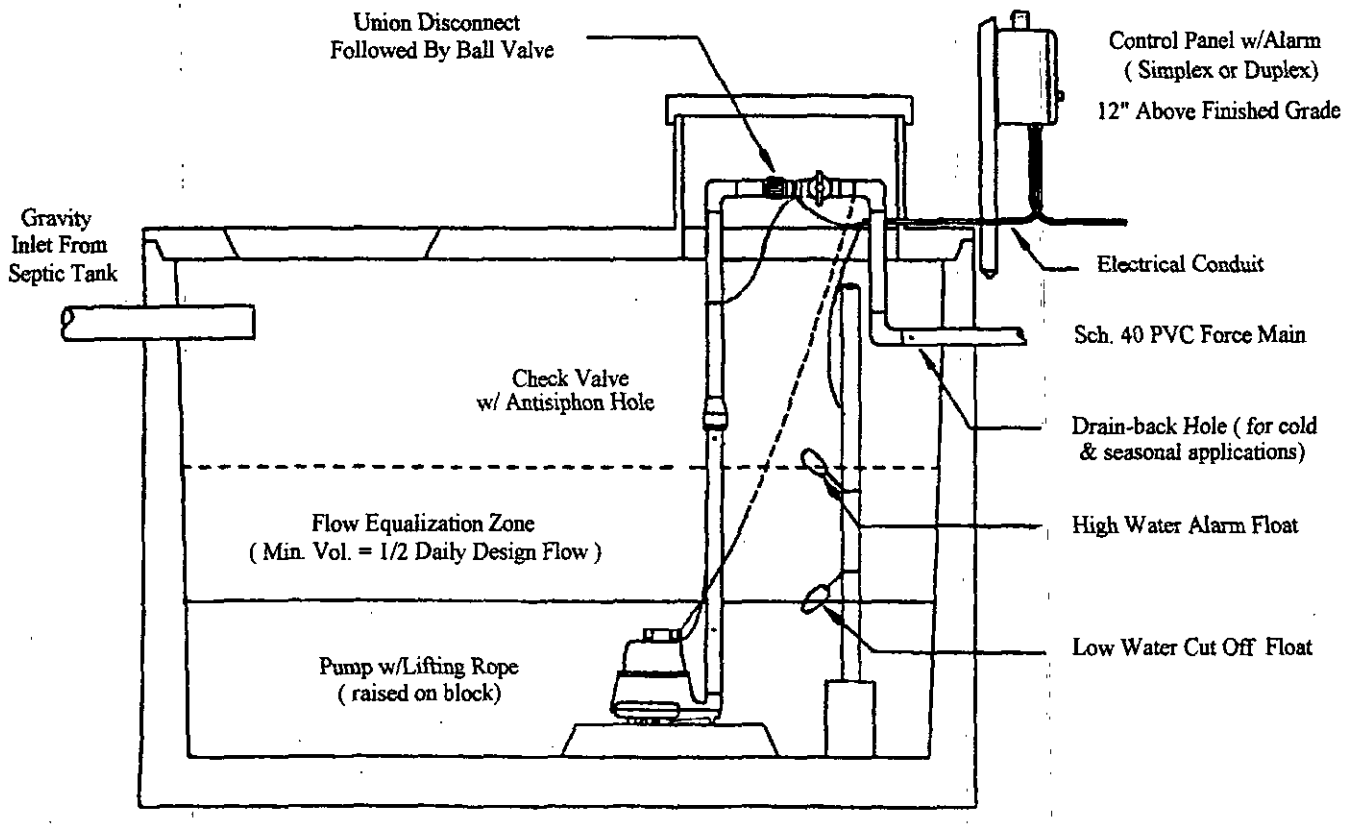


Plan View of Pressure Manifold for Level Site Installation

(not to scale)

TYPICAL PUMP TANK DETAIL

1. Pump tank shall have an access manhole extending at least 6 inches above finished grade.
2. 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 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 waterproof, gasproof, 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.
3. 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 included in the pump and control enclosure (Simplex or Duplex Control Panel).
4. Float switch for the high water alarm shall be set no more than 3 inches above the high water level of pump cycle.
5. Pump floats should be set so that level of water at end of pump cycle is above the top of the pump.
6. Float switch tie downs to be made of corrosion resistant material, no tape or metal hose clamps.
7. Pump discharge shall have a check valve.
8. Anti-siphon hole (three-sixteenth inch) is required between the pump and the check valve.
9. Watertight testing will be required on two piece pump tanks.



ON-SITE WASTEWATER SECTION

SOIL/SITE EVALUATION (4") - #2
for ON-SITE WASTEWATER SYSTEM

22603
PI 113-221-03
L36

OWNER: Mower-Pearson, LLC APPLICANT: _____ DATE EVALUATED: _____
ADDRESS: 9105 Marble City Bluff APPLICATION DATE: _____ PROPERTY SIZE: .88
PROPOSED FACILITY: residence PROPOSED DESIGN FLOW (.1949): max gen PROPERTY RECORDED: _____
LOCATION OF SITE: River Bluff
WATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☑ Other Shared well
EVALUATION METHOD: ☑ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	LS 10%	0-2"	gr/sl	Fr/SEXP/SS/SP	>38" TO soil wetness	38"	N/A	~~N/A~~ None	PS .39 P2 IV
		2-24"	SBK/c	Fi/SEXP/SP					
		24-38"	SBK/cl	Fr/SEXP/SS/SP					
2	LS 27%	0-3"	gr/sc/	Fr/SEXP/SS/SP	>27" TO soil wetness	27"	N/A	None	US IV
		3-24"	SBK/c	Fi/SEXP/SP					
		24-27"	SBK/cl	Fr/SEXP/SS/SP					
3	LS 27%	0-2"	gr/sc/	Fr/SEXP/SS/SP	>27" TO soil wetness	27"	N/A	None	US IV
		2-15"	SBK/c	Fi/SEXP/SP					
		15-24	SBK/cl	Fr/SEXP/SS/SP					
4	LS 25%	0-3"	gr/sl	Fr/SEXP/SS/SP	>27" TO soil wetness	27"	N/A	None	US IV
		3-20"	SBK/c	Fi/SEXP/SP					
		20-27"	SBK/cl	Fr/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.A. Marlin 12-12-97
OTHER(S) PRESENT: LSS

COMMENTS: 1007 Repair Letter

LEGEND

use the following standard abbreviations

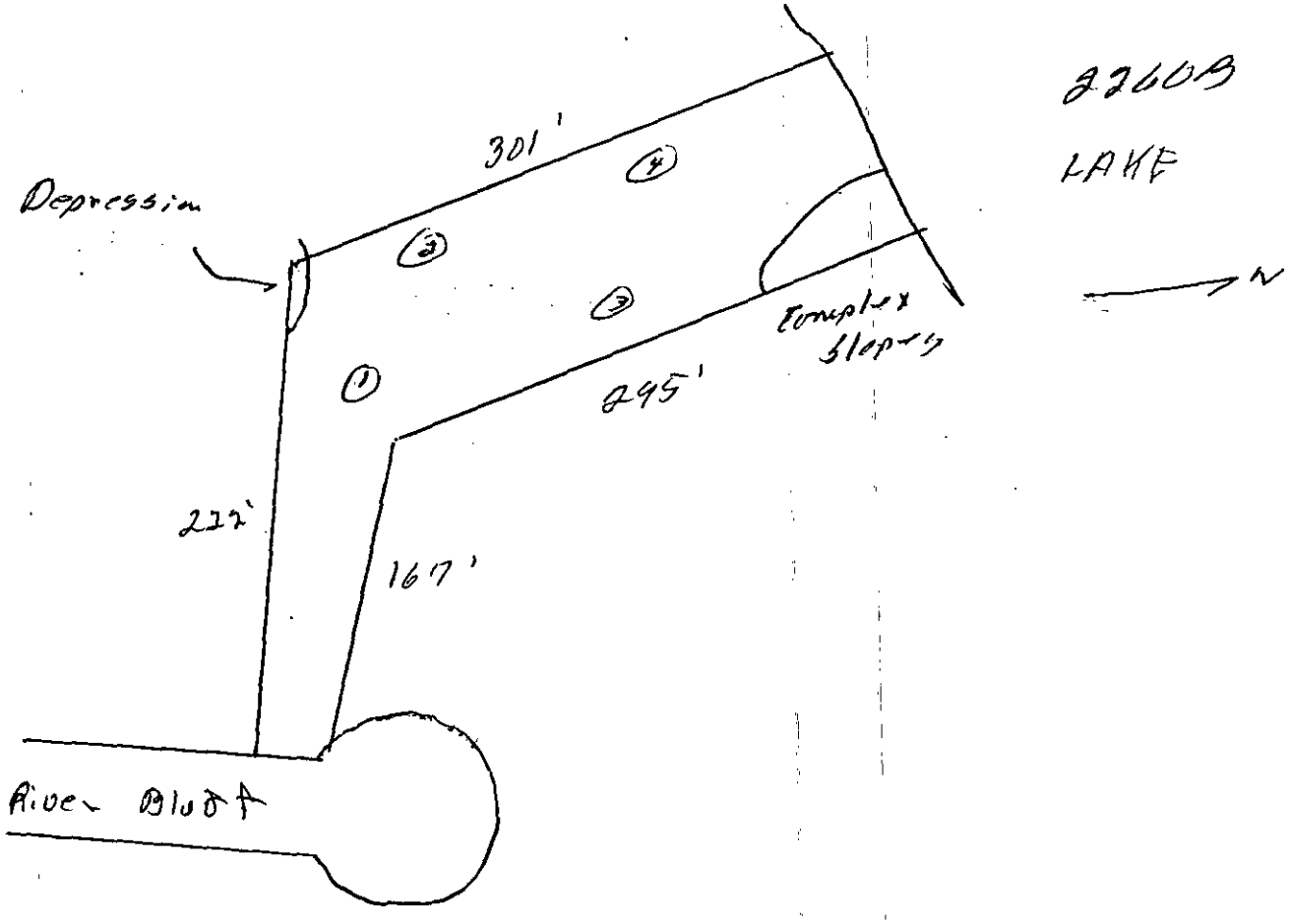
LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL 1955 LTAR	LPP 1957 LTAR	MINERALOGY/ CONSISTENCE	STRUCTURE
C (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive)	G (Single Grain)
V (Convex Slope)		LS (Loamy Sand)			SEXP (Slightly Expansive)	M (Massive)
I (Drainage Way)					EXP (Expansive)	CR (Crumb)
S (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
P (Flood Plain)		L (Loam)				SBK (Subangular Block)
S (Foot Slope)						ABK (Angular Blocky)
H (Head Slope)	III	SI (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
(Linear Slope)		SICL (Silty Clay Loam)				PR (Prismatic)
(Nose Slope)		CL (Clay Loam)				
(Ridge)		SCL (Sandy Clay Loam)			MOIST	WET
(Shoulder Slope)		SUC (Silt Loam Clay)				
(Terrace)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SIC (Silty Clay)			FI (Firm)	S (Sticky)
					VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None		EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

OTES

ORIZON DEPTH	In inches below natural soil surface
EPTH OF FILL	In inches from land surface
ESTRICTIVE HORIZON	Thickness and depth from land surface
APROLITE	S(suitable) or U(unsuitable)
OIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designati
LASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

valuation of saprolite shall be by pits.
ong-term Acceptance Rate (LTAR): gal/day/ft²

Show profile locations and other site features (dimensions, reference or benchmark, and North).



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 # 2260-A LOT 36
PARCEL # 113-07-71

The undersigned, James D. Hough, JR., owner of property located at RIVER BLUFF CT, (the "site") and described in an instrument recorded in Book 29 at Page 675, 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: _____

FILE COPY

FILED FOR REGISTRATION	DOC. # 039080
DATE 2-24-1999	TIME 11:20
BOOK 10273	PAGE 775
STAMPS 0	REC FEE 12.00

JUDITH A. GIBSON
REGISTER OF DEEDS
MECKLENBURG COUNTY, NC

- 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__.

N/A
(Corporate Name)

By: N/A

President

ATTEST:

N/A

Secretary

(Corporate Seal)

James G. Hough Jr. (SEAL)

(SEAL)

(SEAL)

(SEAL)

STATE OF NORTH CAROLINA
COUNTY OF Mecklenburg

I, Karen M. Hilton, a Notary Public for said County and State, do hereby certify that James Gaston Hough Jr. personally appeared before me this date and acknowledged the due execution of the foregoing instrument.

WITNESS my hand and notarial seal, this 24th day of February, 1999.

KAREN M. HILTON NOTARY PUBLIC MECKLENBURG COUNTY, NC

Karen M. Hilton
Notary Public

My Commission Expires:
My Commission Expires September 14, 2003




NOTARY PUBLIC
MECKLENBURG COUNTY, NC

FEE: 100.00 CK# 1047
DATE: 10/7/97 gc

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

3rd lot pd CK# 8835 10/9/97 gc 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 #: [redacted] 22603

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION: RO 113-221-14

TAX/PARCEL NUMBER: TRACT 101, 102, 113

STREET ADDRESS: AMOS SMITH ROAD

SUBDIVISION OR MOBILE HOME PARK NAME: RIVER WALKE PLANTATION

LOT NUMBER: 36

TOWNSHIP (CHECK ONE):

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

CLOSING DATE_____

TYPE OF BUILDING (CHECK ONE):

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

HEATED SQUARE FOOTAGE:

NUMBER OF BEDROOMS: NUMBER OF OCCUPANTS:

FOUNDATION FOR RESIDENCE:

__ WITHOUT BASEMENT
__ ON SLAB
__ 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:	LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:
NAME: STOVER - PEARSON, LLC (LAST) (FIRST) (MI)	NAME: ① PEARSON, JOE ② PEARSON, ROB (LAST) (FIRST) (MI)
ADDRESS: 710 So. MARIETTA ST., SUITE 200	DAYTIME PHONE: (704) 867 - 5002
CITY: GASTONIA STATE: NC ZIP: 28052	
DAYTIME PHONE: (704) 867 - 5002	

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: Robert S. Pearson DATE: 10/6/97

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

PEARSON PROPERTIES
710 South Marietta Street • Suite 200 • Gastonia, NC 28052
PHONE 704 / 867-5002 • FAX 704 / 867-0465

October 6, 1997

Mr. William R. Marlin, C.P.S.S.
Mecklenburg County Health Department
700 North Tryon Street
Suite 21
Charlotte, North Carolina 28202

Re: River Walke Plantation

Dear Bill:

Enclosed please find the requested application for lot number 36 in the above referenced subdivision. Joe tells me that David Dickson has already given you the proposed plot plan. A check for $100.00 is enclosed.

Let me know if you need additional information.

Best regards,

STOVER-PEARSON, LLC

Robert S. Pearson

enclosures

ON-SITE WASTEWATER SECTION

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

2nd Visit 8.25.22 & 9.21.22 — #2

22603
PI 113-221-03
L36

OWNER: Stowe-Pearson, LLC APPLICANT: _____ DATE EVALUATED: _____
ADDRESS: 705 Nantahala Dr, Hayesville APPLICATION DATE: _____ PROPERTY SIZE: .88
PROPOSED FACILITY: residence PROPOSED DESIGN FLOW (.1949): maximum PROPERTY RECORDED: _____
LOCATION OF SITE: River Bluffs
WATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☑ Other Shared well
EVALUATION METHOD: ☑ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

Lot 36

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.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 10%	0-2"	gr/sl	Fr/SEXPlss/NP	>38" TO soil wetness	38"	N/A	~~bHP~~ None	PS .39 Fz IV
		2-24"	sBK/c	Fi/SEXPlsl/P					
		24-38"	sBK/cl	Fr/SEXPlss/SP					
2	LS 27%	0-3"	gr/sl	Fr/SEXPlss/SP	>27" TO soil wetness	27"	N/A	None	US IV
		3-24"	sBK/c	Fi/SEXPlsl/P					
		24-27"	sBK/cl	Fr/SEXPlss/SP					
3	LS 27%	0-2"	gr/sl	Fr/SEXPlss/NP	>27" TO soil wetness	27"	N/A	None	US IV
		2-15"	sBK/c	Fi/SEXPlsl/P					
		15-24"	sBK/cl	Fr/SEXPlss/SP					
4	LS 25%	0-3"	gr/sl	Fr/SEXPlss/NP	>27" TO soil wetness	27"	N/A	None	US IV
		3-20"	sBK/c	Fi/SEXPlsl/P					
		20-27"	sBK/cl	Fr/SEXPlss/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.A. Medlin 12-12-22
OTHER(S) PRESENT: LSS

TS: [illegible]

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL 1955 LTAR	LPP 1957 LTAR	MINERALOGY/ CONSISTENCE	STRUCTURE
C (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive)	G (Single Grain)
V (Convex Slope)		LS (Loamy Sand)			SEXP (Slightly Expansive)	M (Massive)
(Drainage Way)					EXP (Expansive)	CR (Crumb)
S (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
P (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
S (Foot Slope)						ABK (Angular Blocky)
(Head Slope)	III	SI (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
(Linear Slope)		SICL (Silty Clay Loam)				PR (Prismatic)
(Nose Slope)		CL (Clay Loam)				
(Ridge)		SCL (Sandy Clay Loam)			MOIST	WET
(Shoulder Slope)		SLC (Silt Loam Clay)				
(Terrace)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SIC (Silty Clay)			FI (Firm)	S (Sticky)
					VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None		EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

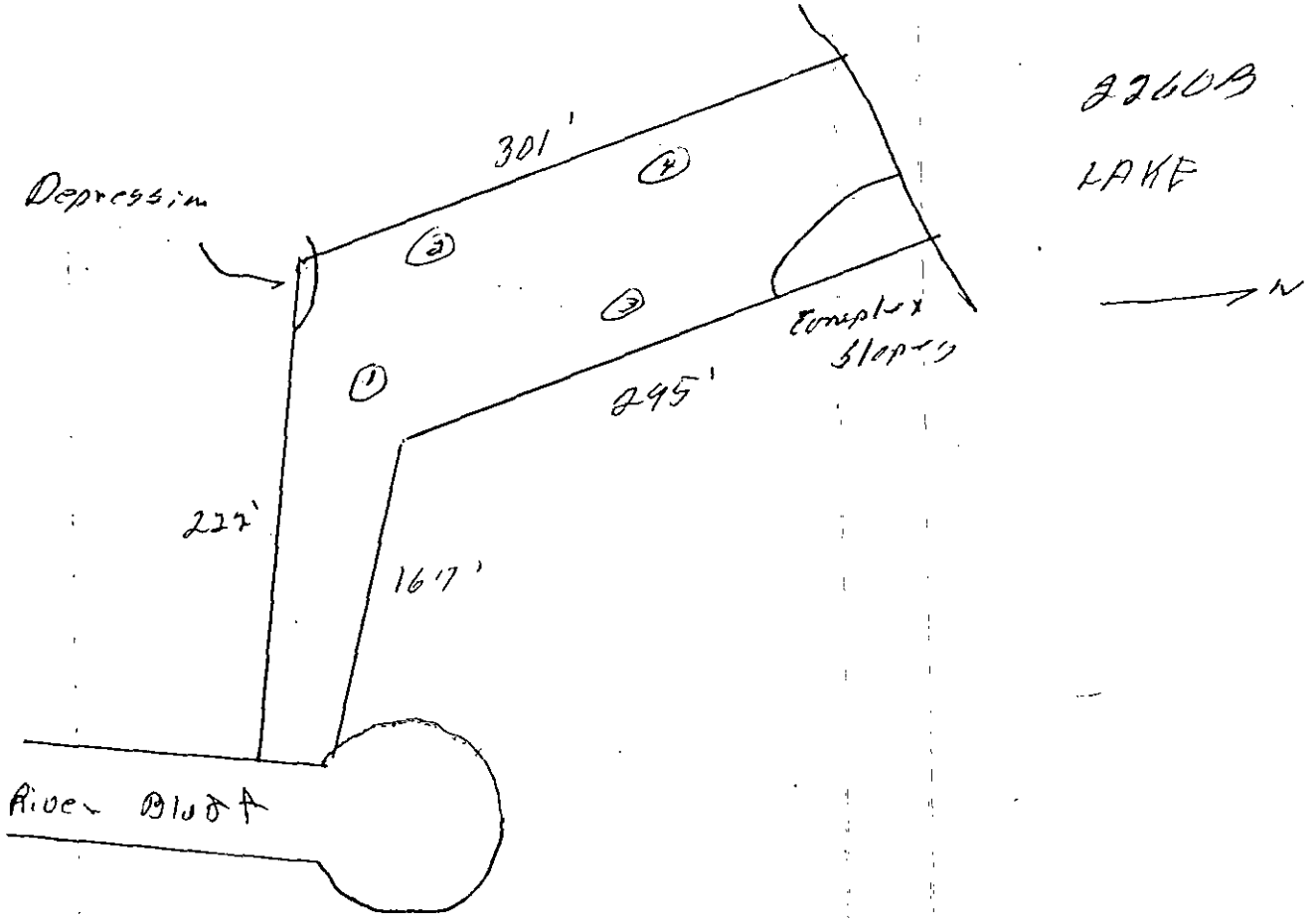
OTES

ORIZON DEPTH	In inches below natural soil surface
EPTH OF FILL	In inches from land surface
ESTRICTIVE HORIZON	Thickness and depth from land surface
PROLITE	S(suitable) or U(unsuitable)
OIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designatic
LASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

valuation of saprolite shall be by pits.

ong-term Acceptance Rate (LTAR): gal/day/ft²

Show profile locations and other site features (dimensions, reference or benchmark, and North).



ON-SITE WASTEWATER SECTION

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

(460) -#2

COUNTY: 22603

PI 113-221-03 L36

OWNER: Mower-Peterson, LLC APPLICANT:

ADDRESS: 105 Danielle Dr. Jamestown APPLICATION DATE: DATE EVALUATED:

PROPOSED FACILITY: residence PROPOSED DESIGN FLOW (.1949): max gpd PROPERTY SIZE: .88

LOCATION OF SITE: River Bluff PROPERTY RECORDED:

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

EVALUATION METHOD: ☑ Auger Boring ☐ Pit ☐ Cut soils rechecked by B. Martin

TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed 2-19-99

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	LS 10%	0-2"	gr/cl	Fr/SEXP/SS/SP	>36" TO soil wetness	36"	N/A	~~N/A~~ None	PS .391 Fr IV
		2-24"	SBK/C	Fi/SEXP/SP					
		24-36"	SBK/CL	Fr/SEXP/SS/SP					
2	LS 27%	0-3"	gr/sCl	Fr/SEXP/SS/SP	>27" TO soil wetness	27"	N/A	None	US IV
		3-24"	SBK/C	Fi/SEXP/SP					
		24-27"	SBK/CL	Fr/SEXP/SS/SP					
3	LS 27%	0-2"	gr/sCl	Fr/SEXP/SS/SP	>27" TO soil wetness	27"	N/A	None	US IV
		2-15"	SBK/C	Fi/SEXP/SP					
		15-24"	SBK/CL	Fr/SEXP/SS/SP					
4	LS 25%	0-3"	gr/CL	Fr/SEXP/SS/SP	>27" TO soil wetness	27"	N/A	None	US IV
		3-20"	SBK/C	Fi/SEXP/SP					
		20-27"	SBK/CL	Fr/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.A. Marks 12-12-97

OTHER(S) PRESENT: LSS

COMMENTS: #4 1000 depth 108 ft bottom

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL 1955 LTAR	LPP 1957 LTAR	MINERALOGY/ CONSISTENCE	STRUCTURE
C (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive)	G (Single Grain)
V (Convex Slope)		LS (Loamy Sand)			SEXP (Slightly Expansive)	M (Massive)
(Drainage Way)					EXP (Expansive)	CR (Crumb)
S (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
P (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
S (Foot Slope)						ABK (Angular Blocky)
(Head Slope)	III	SI (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
(Linear Slope)		SICL (Silty Clay Loam)				PR (Prismatic)
(Nose Slope)		CL (Clay Loam)				
(Ridge)		SCL (Sandy Clay Loam)			MOIST	WET
(Shoulder Slope)		SLC (Silt Loam Clay)				
(Terrace)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SIC (Silty Clay)			FI (Firm)	S (Sticky)
					VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None		EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

NOTES

HORIZON DEPTH — In inches below natural soil surface

DEPTH OF FILL — In inches from land surface

RESTRICTIVE HORIZON — Thickness and depth from land surface

SAPROLITE — S(suitable) or U(unsuitable)

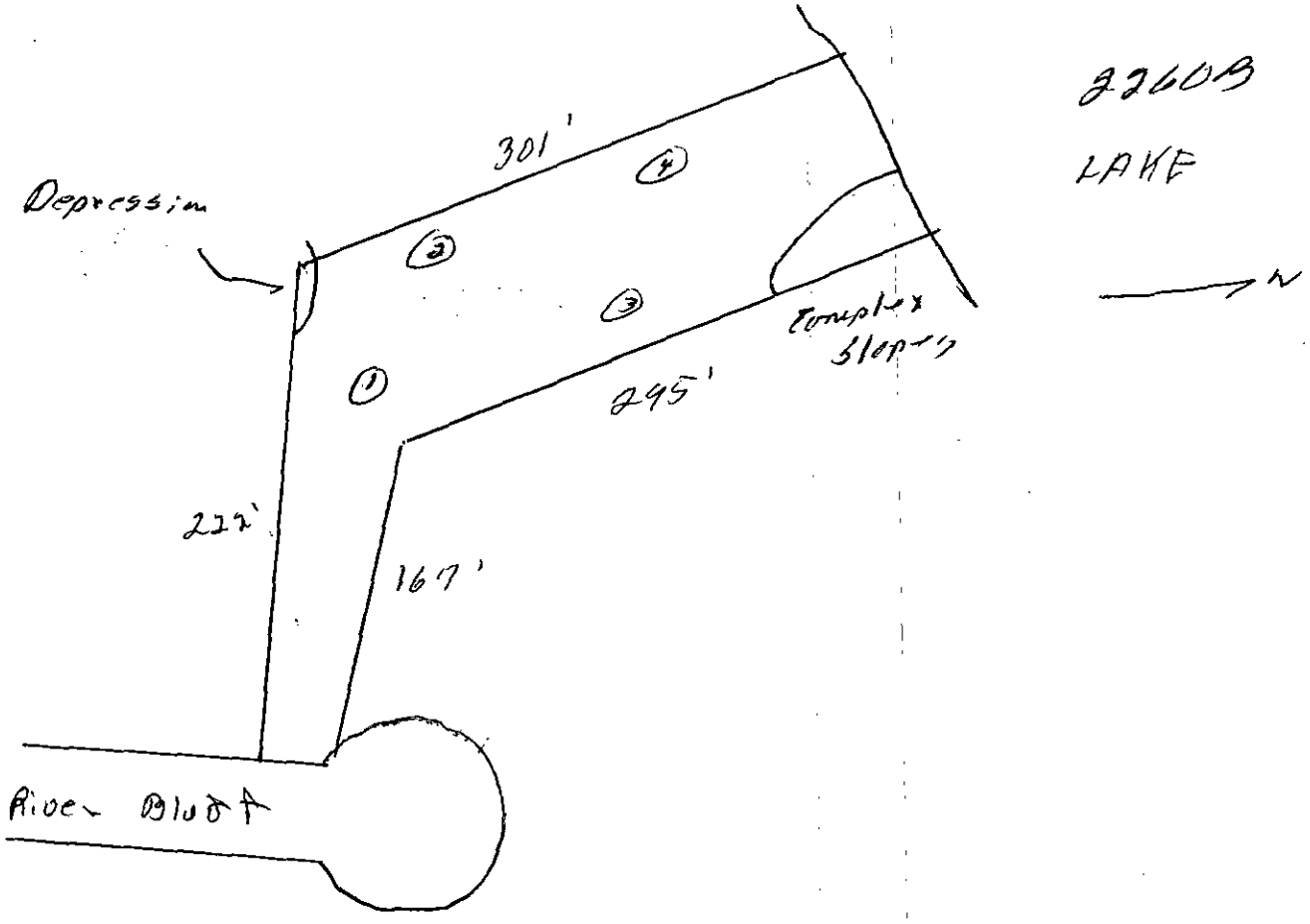
SOIL WETNESS — Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designatio

CLASSIFICATION — S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft²

Show profile locations and other site features (dimensions, reference or benchmark, and North).



Mecklenburg County
Health Department

January 28, 1999

Stover-Pearson, LLC
710 S. Marietta Street, Suite 200
Gastonia, NC 28052

Re: Amos Smith Road – Lot 36
File: 2260B
Parcel: 113-221-14PO

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 .1942 **SOIL WETNESS CONDITIONS,** and .1943 **SOIL DEPTH.** 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 336-5570.

Sincerely,
Philo S. Walker R.S.

Philo S. Walker, R.S.
Individual Water and Wastewater Systems