



Madison County Health Department
400-A North Main Street PO Box 67
Madison, Virginia 22727
(540) 948-5481 Voice
(540) 948-3841 Fax

Sewage Disposal System Operation Permit

Property Owner

Stephen Smith
2422 Silver Fox Lane
Reston, Virginia 20191
Phone: (571) 331-6503

Health Dept. ID: **SD-07-40**

Tax Map: **9-33H**

Locality: Madison

Property Location

Property Address: Champe Plain Road
Etlan, Virginia 22719

Directions: Take rt 231 towards Etlan. Turn left on rte 646, a dirt road on the left shortly after the intersection with rte 644 leads to the lot

=====

Stephen Smith is hereby granted permission to operate a septic tank effluent and drainfield Sewage System at the above referenced location, having a design capacity of **360** gallons per day, or **3** bedrooms maximum.

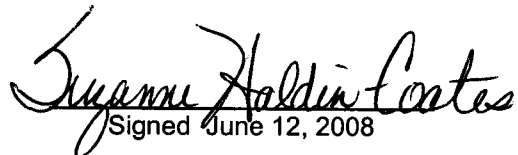
This permit is issued based on the following use condition(s):

Reduced water flow based on permanent water saving plumbing devices.

This permit is issued in accordance with the provisions of Title 32.1, Chapter 6 of the Code of Virginia as Amended, and Section 12VAC 5-610-340 of the Sewage Handling and Disposal Regulations of the Virginia Department of Health. The issuance of an operation permit does not denote or imply any guarantee by the department that the sewage disposal system will function for any specified period of time. It shall be the responsibility of the owner or any subsequent owner to maintain, repair, or replace any sewage disposal system that ceases to operate in accordance with the regulations.

June 12, 2008
Effective Date

Suzanne Haldin-Coates
EHS


Signed June 12, 2008

AOSE/PE Inspection Report and Completion Statement

Commonwealth of Virginia
State Department of Health

Health Department Identification Number: _____

Tax Map: _____

9-33H

Madison

Health Department

Name of AOSE/PE: Thomas A. Warby

Certification Number: 257

Address: 13235 Matts Lane; Culpeper, VA 22701

Telephone: 540-937-6623

Contractor's Name: JT's Backhoe

Owner's Name: Mr. Stephen Smith

Owner's Address: 2422 Silver Fox Lane Reston, Va 20191

Location of Installation: Subdivision: _____

Section: _____

Block: _____

Lot: _____

Other: 1319 Champ Plain Road, Etlan, Va

Component	Inspection Results		Date Approved
	Comments, Materials, Etc.	Deficiencies Observed, Date Deficiencies Observed Corrective Action Required	
Water Supply Location and Construction	By Health Dept <i>THW</i>		6-12-08
Building Sewer	4" SCH 40 A4 - OK 2 - 45° Ells		
Septic Tank	1000 gal Allied mid seam		12-21-07
Inlet-Outlet Structure	5' 9" 4" 5' 11" 4"		12-21-07
Pump and Pump Station	1000 gal Allied mid seam 6" Drawdown		6-3-08
Conveyance Method	pumped 2" SCH 40		12-21-07
Distribution Box or Pressure Manifold	16 holes 1 in 11 out		12-21-07
Header, Conveyance, Return, etc. Lines	4" SCH 20 1'-2' into trenches		12-21-07
Percolation Lines, Drip, Chambers, etc.	gravel, 18" install completed: 35' long, 3' wide 9' centers		12-21-07
Absorption Trenches and Dispersal Field	① 1' 8" 1/4" 1' 10" 1/4" ② 2' 6" 1/2" 2' 8" 1/4"		
(Other Components: treatment unit, etc.)	③ 2' 4" 3' 11" ④ 4' 9" 3/4" 4' 11" 3/4" ⑤ 5' 8" 5' 10" 1/4" ⑥ 6' 11" 4" 7' 1" 1/2" ⑦ 7' 4" 7' 11" 1/2" ⑧ 8' 6" 3/4" 8' 9" 1/2" ⑨ 9' 6" 9' 8" 1/4" ⑩ 10' 4" 3/4" 10' 6" 1/2" ⑪ 11' 2" 4/2" 11' 4" 1/2"		

Attach observed deficiencies and corrective actions taken on a separate completion statement as necessary.

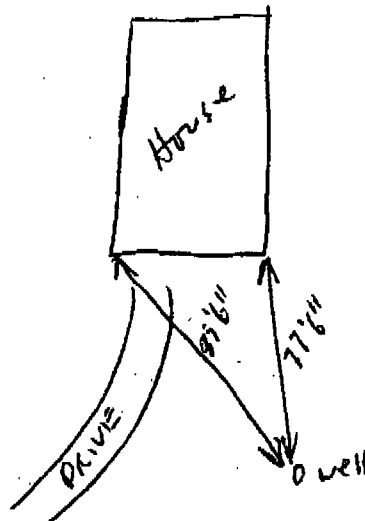
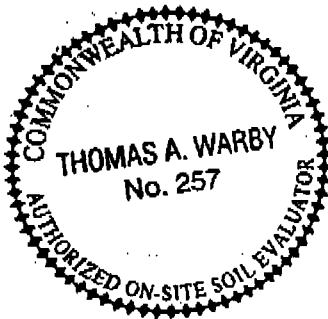
AOSE/PE Completion Statement: As-Built Drawing

Commonwealth of Virginia
State Department of Health

Health Department Identification Number: _____ Tax Map: 9-37H

Triangulate critical system components to fixed reference points.

SEE ALSO DRAWING
BY CONTRACTOR



both
manholes
fallen over/
a large truck-
manhole
got to
within a
few inches

☐ Check here if as-built drawing is on a separate page attached to this form

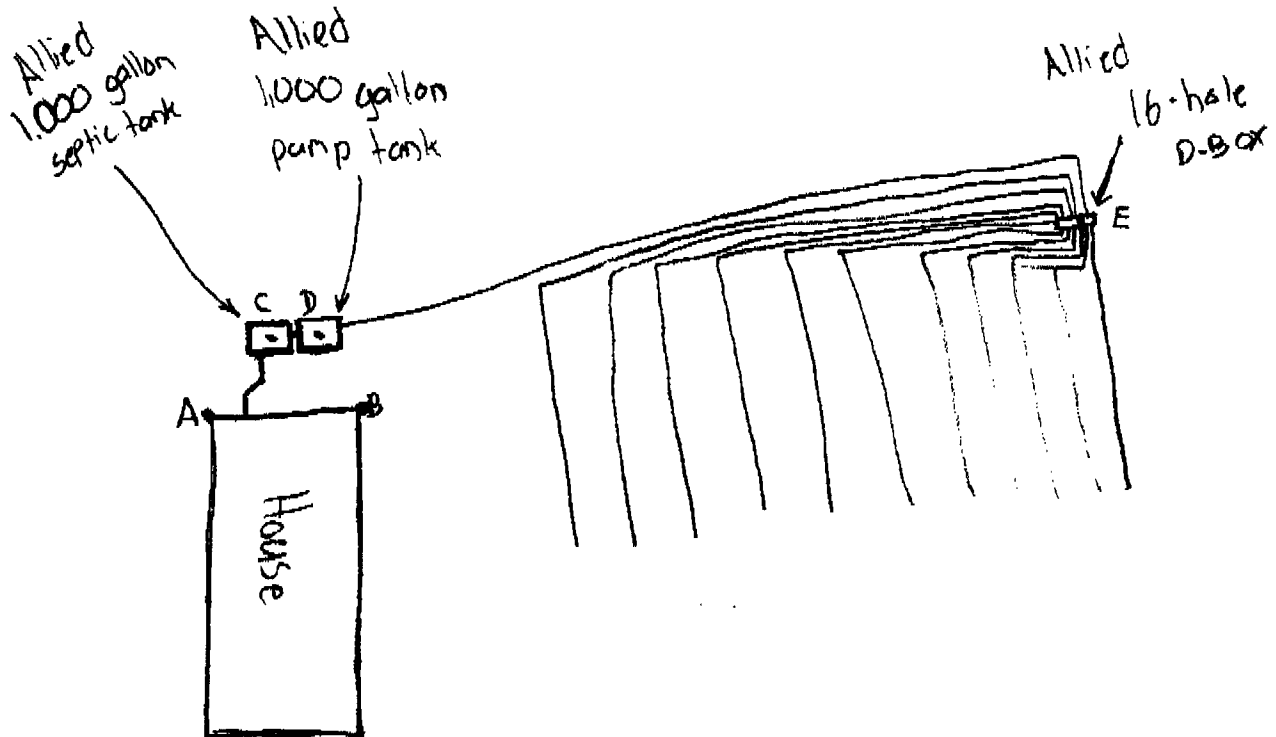
(Attachment must display Health Dept. Identification Number, tax map number, and must be signed and dated by AOSE/PE)

I hereby certify that on 6-3-08 (date), I, or an employee under my direct supervision, inspected this sewage system's construction. The onsite sewage system has been installed and completed in accordance with the construction permit issued on _____ (date) and is in compliance with the *Sewage Handling and Disposal Regulations* (12 VAC 5-610 et seq), *Private Well Regulations* (12 VAC 5-630 et seq), when applicable, and the plans and specifications for the project.

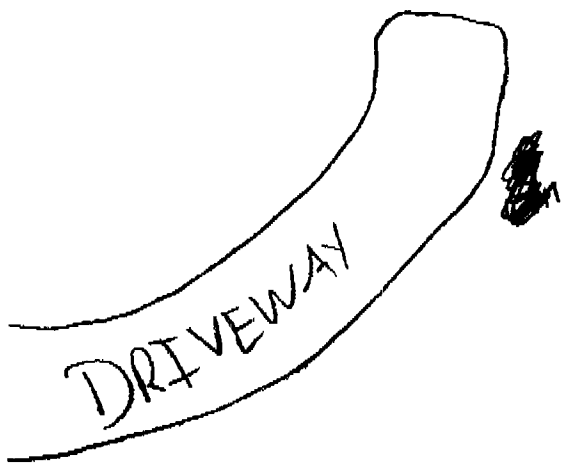
AOSE/PE Signature: Thomas A. Warby Date: 6-4-08

Print Name: Thomas A. Warby

As Built by Contractor TM 9-33H (Madison Co)
12-21-07



11-ditches 3' wide 18" deep 35' long



A to C =

A to D =

B to C =

B to D =

B to E =

1. 18" to 1'10"
2. 2'6 1/2" to 3'4"
3. 3'9" to 3'11"
4. 4'9 3/4" to 4'11 1/2"
5. 5'7 3/4" to 5'10"
6. 6'11 1/4" to 7'1 1/4"
7. 7'4" to 7'11 3/4"
8. 8'6 3/4" to 8'9"
9. 9'5 3/4" to 9'8"
10. 10'4 3/4" to 10'6 1/2"
11. 11'2 1/2" to 11'4 1/4"

Completion Statement

Commonwealth of Virginia
State Department of Health

Health Department
Identification Number

07-40

MADISON Co.

Health Department

Name of Company/Corporation/Individual: J.T.'S Backhoe Service

Address: 12201 Droyheda Mtn. Rd. Alexandria, VA 22304

Telephone: 540-937-7121

Owner's Name: Stephen Smith

Owner's Address: 2422 Silverfox Ln. Reston, VA 20191

Location of Installation: Lot

Block

Section:

Subdivision:

Other: TM 9-33 H

I hereby certify that the onsite sewage disposal system has been installed and completed in accordance with the construction permit issued (date) 2-26-07 and is in compliance with Part D of the Sewage Landfilling and Disposal Regulations and when appropriate the plans and specifications for the project.

12-21-07

Date

James Southard

Signature and Title

Commonwealth of Virginia Uniform Water Well Completion Report

Owner: Stephen Smith Tax Map ID: 9-33H Grid C-13
Address: 10 for Ruffin Construction VDH Permit: KBID 10-01-05
Phone: _____ VACS Permit: _____
Location: Orange Plaza Road VACS ID: 10000000 County: Madison

About 40' static per share Foster on 6-12-08 = 390 gallons of storage.

General Information
Drilling Method: Aug Rotary
Depth to Base: 110
Static Water Level: 110
Well Disinfected (Y or N): _____

Date Completed: 7-26-08
Yield: 100 (gpm)
Stabilized Water Level: _____
Disinfectant Used: _____

Total Depth of Well: (300)
Length of Test: _____
Natural Flow (Rate): _____
Amount Used: _____

Casing
From 10 To 56
Size: 10-18 Material: Steel
Weight/Schedule: 18

From _____ To _____
Size: _____ Material: _____
Weight/Schedule: _____

From _____ To _____
Size: _____ Material: _____
Weight/Schedule: _____

Gravel Pack
From _____ To _____

From _____ To _____

From _____ To _____

Grout
From 0 To 50
Bore Hole Size: 10
Type: Grout
Method: Pump

From _____ To _____
Bore Hole Size: _____
Type: _____
Method: _____

From _____ To _____
Bore Hole Size: _____
Type: _____
Method: _____

Water Zones or Screened Intervals
From 110 To 111
Mesh Size: _____
From 149 To 150
Mesh Size: _____

From _____ To _____
Mesh Size: _____
From _____ To _____
Mesh Size: _____

From _____ To _____
Mesh Size: _____
From _____ To _____
Mesh Size: _____

* Use Data *

Private Well: _____ Domestic _____ Agricultural _____ Industrial _____ Monitoring _____
Public Well: _____ Community _____ Non-community _____

* Abandonment Information *

Bored or Dug Wells
Casing Removed, Y or N? _____
If Y, Depth to which casing was removed: _____
Depth and Type of Fill: _____
Source of Fill: _____
Bentonite Plug: From _____ to _____ From _____ to _____

Wells other than Bored Wells
Casing removed, Y or N? _____
Depth to which casing was removed: _____
Applicable, depth(s), and type of gravel/sand fill: _____
Source of gravel or sand: _____
Cement: From _____ to _____ From _____ to _____

Method of permanently marking location: _____

390 gallons of storage.

SD-07-40

* Drillers Log *

Depth	Description of Formation or Sediment	Remarks
0-40	gravel, sand	
40-50	weathered granite	
50-149	granite	
149-155	soft brown granite	
155-300	granite	

(Use Additional Sheets if necessary)

I certify that the information contained here is true and that this well was installed and constructed in accordance with the permit and further that the well complies with all applicable state and local regulations, ordinances and laws.

Name FOSTER WELL & PUMP CO INCAddress P O BOX 260EARLYSVILLE VA 22936Phone (434) 973-9079Drillers Signature James A. Delude, PSEDate 4/27/07 Representing Foster Well & Pump Co IncVirginia Contractors License Number 2705015945A



ENVIRONMENTAL SYSTEMS SERVICE, LTD.

JOSEPH KEYSER CONSTRUCTION
P.O. BOX 484
WASHINGTON, VA 22747

ANALYSIS REPORT

1319 CHAMPE PLAIN RD., ETLAN, VA.

ESS WO NUMBER: 82010

ESS ID NUMBER: 14110

SAMPLE LOCATION: SD# 07-40

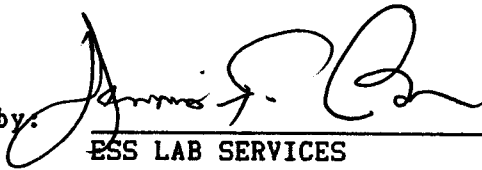
SAMPLE SOURCE: KITCHEN

DATE SAMPLED: 06/09/2008

TIME SAMPLED: 12:30

PARAMETER	RESULT	METHOD	DATE	TIME INT
Total Coliform Bacteria	ABSENT	SM 9223 (18 hr)	06/09/08	16:00 TF
E. coli	ABSENT	SM 9223 (18 hr)	06/09/08	16:00 TF

THIS WATER SAMPLE HAS MET THE MINIMUM POTABLE WATER TEST
REQUIREMENTS AS ESTABLISHED BY THE VIRGINIA DEPARTMENT OF HEALTH

Reviewed by: 

ESS LAB SERVICES

Report Date: June 10, 2008
VA LAB ID# 00115



Madison County Health Department
400-A North Main Street PO Box 67
Madison, Virginia 22727
(540) 948-5481 Voice
(540) 948-3841 Fax

March 21, 2007
Stephen Smith
2422 Silver Fox Lane
Reston, Virginia 20191

Re: Conditional Permit - HDID # SD-07-40

Tax Map: 9-33H Grid C-13

Located at: Champe Plain Road
Etlan, Virginia 22719

Lot Size: 7.0621 Acre(s):

Directions: Take rt 231 towards Etlan. Turn left on rte 646, a dirt road on the left shortly after the intersection with rte 644 leads to the lot

Dear Stephen Smith,

Your application for a conditional sewage disposal system construction permit filed on March 7, 2007 with the Madison County Health Department, has been evaluated in accordance with the requirements contained in Section 32.164.1 of the Code of Virginia, 12 VAC 5-610-250 of the Sewage Handling and Disposal Regulations, and current agency policies and procedures for processing applications for Conditional Permits.

This letter, in conjunction with the approved plans (12 pages) dated February 26, 2007, which are attached, constitutes your permit to install a sewage disposal system [and well]. The application for a permit was submitted pursuant to §32.1-163.5 of the Code of Virginia which requires the Health Department to accept private soil evaluations and designs from an Authorized Onsite Soil Evaluator (AOSE) or a Professional Engineer working in consultation with an AOSE for residential development. The permitted site was certified as being in compliance with the Board of Health's regulations (and local ordinances if the locality has authorized the local health department to accept private evaluations for compliance with local ordinances) by: Warby, Thomas A., AOSE # 257, (540) 937-6623. This letter is issued in reliance upon that certification.

Based on information filed with your application, and the site and soil evaluations conducted by the AOSE, this is to inform you that your application for a Conditional Permit is hereby approved. The items listed below are part of the permit and constitute the conditions that are and have been applied to the approval, installation, and usage of the sewage disposal system:

- A. This letter is a part of the conditional sewage disposal system construction permit issued for the above referenced location.
- B. This letter shall be recorded and indexed in the grantor index under your name in the land records of the Clerk of the Circuit Court that has proper jurisdiction over this property.
- C. You must furnish the Madison County Health Department certification from the Clerk of

the Circuit Court which indicates the deed book number and page number (or instrument number) upon which the permit and all conditions have been recorded. A copy of this certification shall be attached to all copies of the permit prior to giving validation to the Building Official for issuance of a building permit.

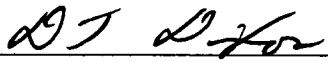
****** CONDITIONS INCLUDE ******

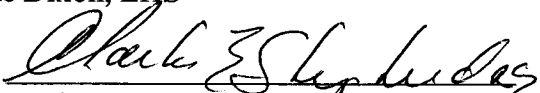
Reduced water flow based on permanent water saving plumbing devices (Low Flow Toilet Fixtures)

In accordance with the Virginia Administrative Process Act, the Health Laws of Virginia, Section 32.1-164.1 of the Code of Virginia, and 12 VAC 5-610-200 & 220 of the Sewage Handling and Disposal Regulations, this letter is to further inform you of your right of appeal to obtain a modification or elimination of the conditions established in and for the issuance of this permit.

If you desire to pursue this right, in which you may at your discretion be represented by counsel, the first step in the appeal process is to submit your written request for an informal fact-finding conference to Lilian Peake, M.D., M.P.H., Acting Director, Rappahannock/Rapidan Health District, 1138 Rose Hill Drive, Charlottesville, Virginia 22903. Your request should state the basis for the appeal and should outline all the facts and such other data or other information which would support your appeal of the decisions establishing the conditions outlined above.

If this office may be of further service to you, please let us know.


Dwayne Dixon, EHS

Reviewed by: 
Environmental Health Manager/Supervisor

I authorize that this permit and letter be recorded in the grantor index of the Clerk of the Circuit Court of _____ County (City) under my name.

Stephen Smith

Subscribed, acknowledged, and sworn to before me this _____ day of _____ 20____
in the City/County of _____, Commonwealth of Virginia.

Notary Public

My commission expires _____.

Cc: Building Inspection

©

OFFICE COPY
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22218206

Page 1 of 12.

MAR 2007
RECEIVED

Commonwealth of Virginia
Application for a Sewage Disposal and/or Water Supply Permit

Health Department ID# 07-40 (VDH Use)

Owner Mr. Stephen Smith Address 2422 Silver Fox Ln Phone (571) 331-6503
Reston, VA 20191

Agent Mr. Thomas Warby Address 13235 Matts Lane Phone (540) 937-6623
Culpeper, VA 22701

Directions to Property From Madison, take Rte 231 toward Etlan. Turn left on Rte 646. A dirt road on the left shortly after the intersection with Rte 644 leads to the lot

Subdivision _____ Section _____ Block _____ Lot _____

Other Property Identification _____ Map Reference TM 9-33H

Dimension/Size of Lot/Property _____ 7.0621 Acres

Residential Use ☒ Yes ☐ No
Termite Treatment ☒ Yes ☐ No
☒ Single Family ☐ Multi-Family
Number of Bedrooms 3 Number of Units 1

Basement ☒ Yes ☐ No
Fixtures in Basement ☒ Yes ☐ No

Proposed Sewage Disposal Method:

Onsite Sewage Disposal System: ☒ Septic Tank Drain Field ☐ LPD ☐ Mound ☐ Other: _____

Water Supply: ☐ Public ☐ New ☐ Existing
☒ Private ☒ New ☐ Existing

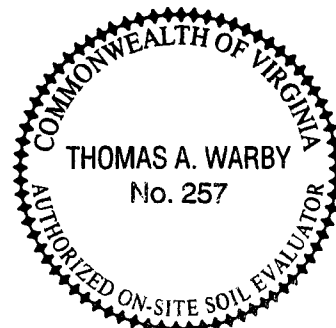
Describe: IIIB Well

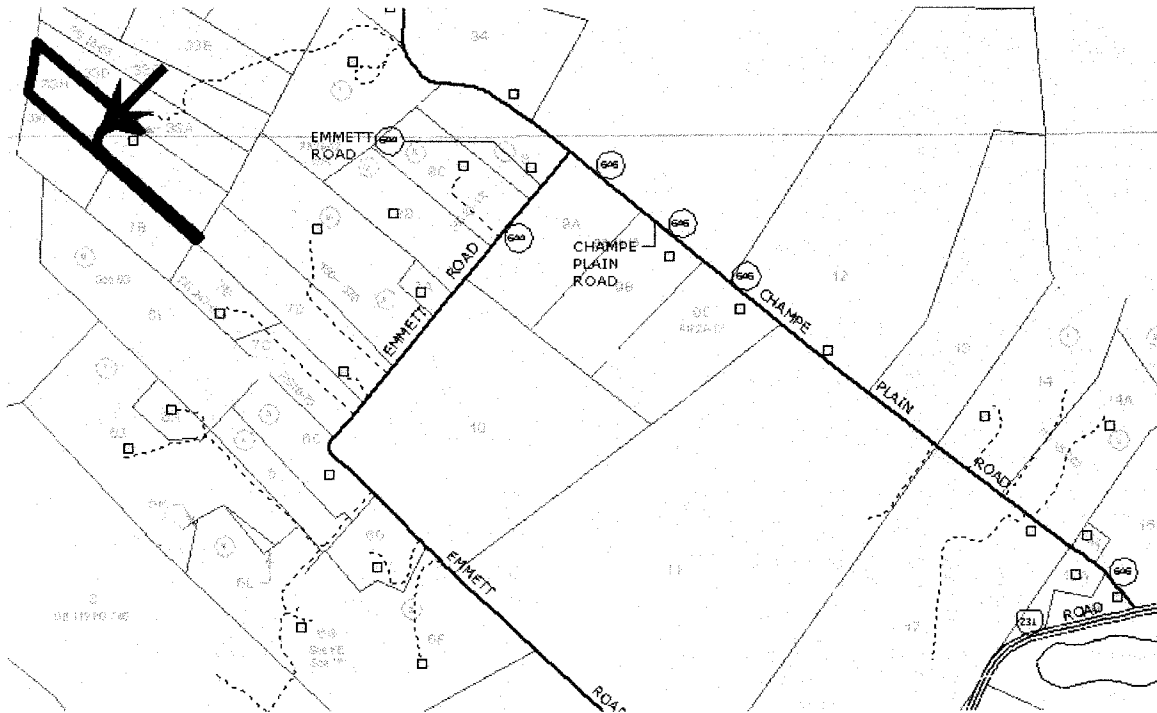
The property lines, building location and sewage disposal system site are clearly marked and the property is sufficiently visible to see the topography. I give permission to the Department to enter onto the property described for the purpose of processing this application and to perform quality assurance checks as necessary until the sewage disposal system has been constructed and approved.

Thomas A. Warby
Signature of Owner/Agent

2-26-07
Date

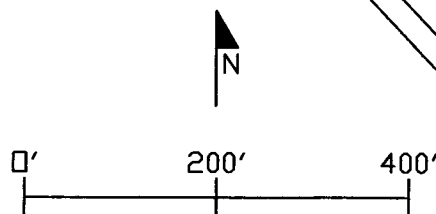
MAR 2007
RECEIVED





SITE LOCATION MAP
TM 9-33H
MADISON COUNTY, VIRGINIA
CMW, LLC PROJECT NO. C952





DWG. NO:

SOIL EVALUATION SUMMARY
TM 9-33H
MADISON COUNTY, VIRGINIA

EVALUATION PERFORMED BY CRAIG M. PAUL
JANUARY 30, 2007

Position in Landscape: Side slope

Slope: 6-8 %

Depth to rock/impervious strata: 36"+

Depth to seasonal water table (gray mottling): Not found.

Free water present: No.

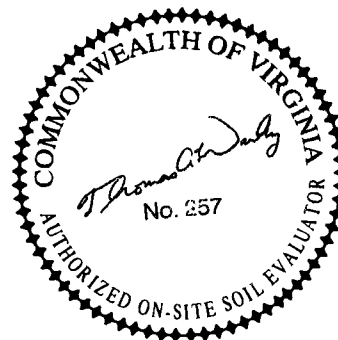
Percolation Rate Estimated: Yes

Texture group at installation depth: 2

Estimated percolation rate: 60 min./in.

Percolation Test Performed: No

Recommended installation depth: 18"



SOIL PROFILES
TM 9-33H
MADISON COUNTY, VIRGINIA

HAND AUGER BORINGS PERFORMED BY CRAIG M. PAUL
JANUARY 30, 2007

<u>Hole</u>	<u>Horizon</u>	<u>Depth, in.</u>	<u>Soil Description</u>	<u>Group</u>
P-1	A	0-3	10YR3/2 Very dark grayish brown loam	2
	E	3-6	10YR5/6 Yellowish brown sandy clay loam	2
	B	6-37	7.5YR5/6 Strong brown sandy clay loam with 10YR6/8 Brownish yellow mottles.	2
			10YR4/3 Brown parent starts at 36" Auger refusal at 37"	
P-2	A	0-5	10YR3/2 Very dark grayish brown loam	2
	E	5-16	10YR5/8 Yellowish brown sandy clay loam	2
	B	16-36	7.5YR5/6 Strong brown sandy clay loam	2
			Auger refusal at 36"	
P-3	A	0-3	10YR3/3 Dark brown loam	2
	B	3-37	10YR5/8 Yellowish brown sandy clay loam	2
			Auger refusal at 37"	
P-4	A	0-2	10YR3/2 Very dark grayish brown loam	2
	E	2-8	10YR5/6 Yellowish brown sandy clay loam	2
	B	8-38	7.5YR5/8 Strong brown sandy clay loam with	2
			10YR6/6 Brownish yellow parent	



Abbreviated Design Form
Traditional Septic System – TM 9-33H

Design basis

A. Estimated Percolation Rate 60 mpi.

B. Absorption area square feet
required per bedroom (from Table 5.4
based on X Gravity LPD) 452(.8*)=362.

C. Number of Bedrooms 3.

Area Calculations

D. Length of trench 35'. Length of available area 35'.

E. Width of trench 3'.

F. Number of Trenches 11.

G. Center-to-center spacing 9'.

H. Width required 10(9)+3=93' Width of available area 93'+.

I. Total square footage required 1086.
(B X C)

J. Square footage in design 1155.
(D X E X F)

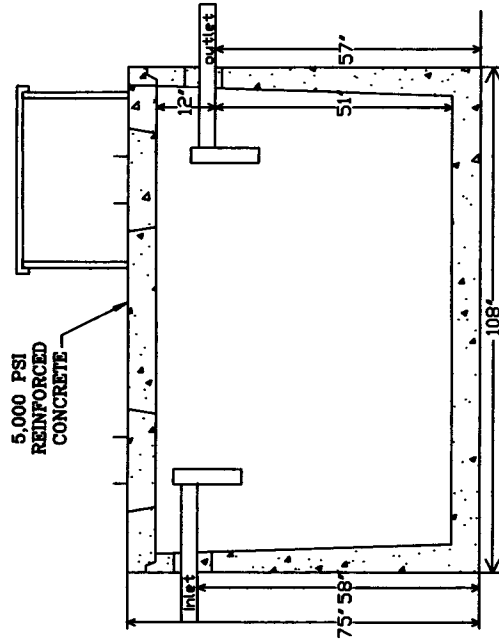
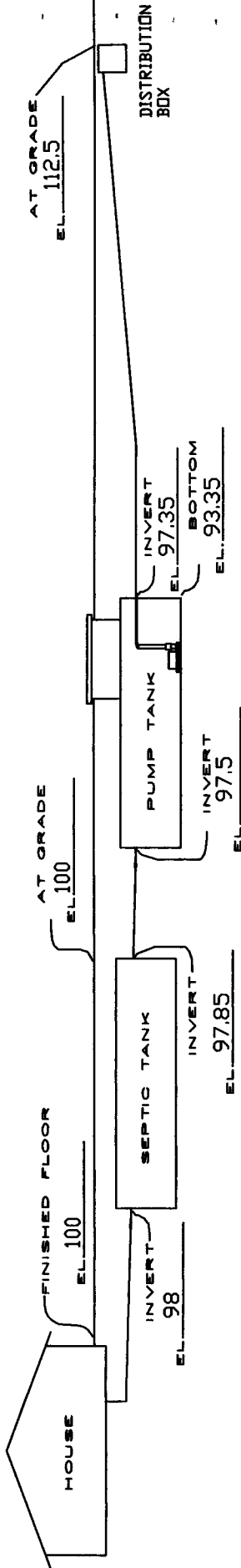
K. Is a reserve required: X Yes No A 100% reserve is provided.

* Water saving devices are required for this system.

Property Identification: TM 9-33H; Madison County, Virginia.



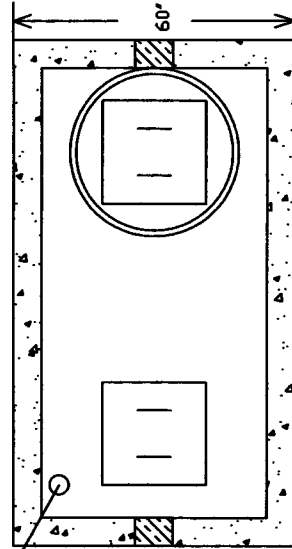
NOTE: Elevations shown are approximate and not intended to be exact.



SECTION VIEW

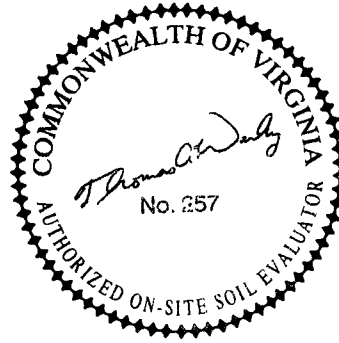
NOT TO SCALE

CLEAR FLOW CO.
SEPTIC TANK - 1000 GAL
CAPACITY (MINIMUM)
(OR EQUIVALENT)



PLAN VIEW

INLET AND OUTLET ARE 4" WATER TIGHT SEALS. THE
MANHOLE HANDELS ARE NO RUST PLASTIC.
REINFORCING WIRE ON SIDES. TOP HAS REBAR
REINFORCEMENT.



C.M.W., LLC - 13235 MATTS LANE
CULPEPER, VIRGINIA 22701
TEL: (540) 937-6623
FAX: (540) 937-6624

DATE: 2-17-06

SCALE: NTS

DRWN: BTWI

C952

HYDRAULIC PROFILE AND SEPTIC TANK DETAIL
TM 9-33H - MADISON COUNTY, VIRGINIA

DWG. NO:

HYDRAULIC CALCULATIONS
TM 9-33H
MADISON COUNTY, VIRGINIA

I. Septic Tank Size:

Daily Flow - 360 GPD
Detention Time - 48 hrs.
Required Capacity - 720 Gal.
Recommend - 1000 Gal.

II. Pump Tank Float Settings (1000 Gal. Pump Tank from Clear Flow):

Tank Properties:

Liquid Depth - 51"
Gallons per inch - 21.1
Low Water Cut Off Float Level - 24" (To keep fluid above the pump)
Required Storage above Alarm Float (1/4 day storage) = $1/4(360) = 90$ Gallons
Alarm Float set 6 inches below invert of pump pipe out of tank provides $6"(21.1 \text{ Gal./in.}) = 126.6 \text{ Gal.}$

III. Pump Sizing and Specifications:

Static Lift (2' above bottom of tank to the distribution box) $112.5' - 95.35' = 17.15$

Assume flow of 30 gallons per minute (2.87 feet/sec. for 2" pipe)

Friction Head Loss

185 feet of 2" dia. pipe

Assume 50' extra for minor losses

Friction coefficient = 1.82/100 feet of pipe

Friction Head Loss = $(1.82)(1.85) = 3.37$

Total Head Loss = Static Lift + Friction Head Loss = $17.15 + 3.37 = 20.52$

Use Zoeller Model 137 Pump (see attached pump curve)

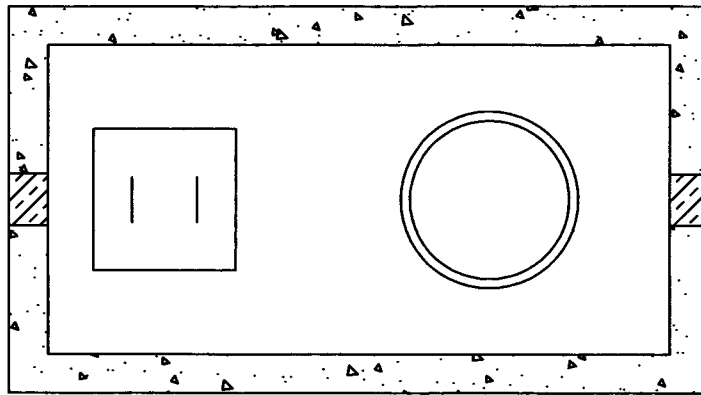
Pump Specifications - See Attached Drawings for Control Panel, Float and Alarm Details. Pump controls to be housed in NEMA 4X weatherproof enclosure. Alarm to be located within the house.

IV. Demand Dosing Requirements (1/4 to 1 days flow) = 90 to 360 Gal.

Flow volume per pump event: $6"(21.1) = 126.6 \text{ Gal.}$

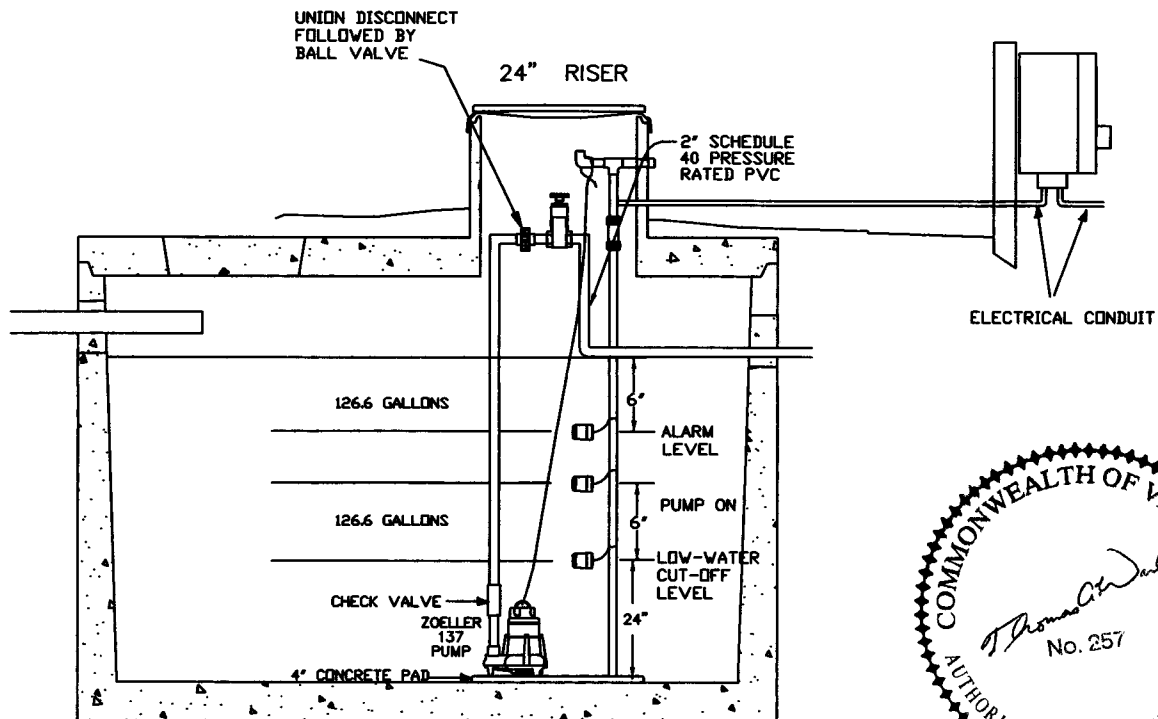


PUMP TANK - 1000 GAL FROM CLEAR FLOW PRODUCTS, INC. (21.1 GAL/INCH)



PLAN VIEW

Simplex Control Panel with Alarm. The pump and alarm are to be wired on separate breakers.



SECTION VIEW

NOT TO SCALE



C.M.W., LLC - 13235 MATTS LANE
CULPEPER, VIRGINIA 22701
TEL: (540) 937-6623
FAX: (540) 937-6624

DATE: 2-17-07

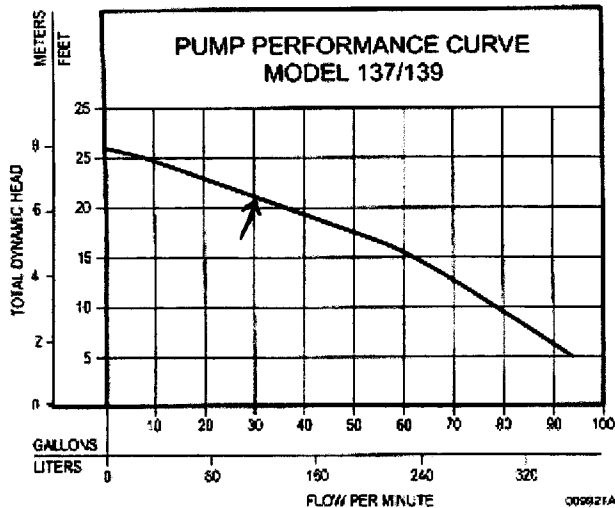
SCALE: NTS

DRWN: BTWI

C952

PUMP TANK DETAILS
TM 9-33H - MADISON COUNTY, VIRGINIA

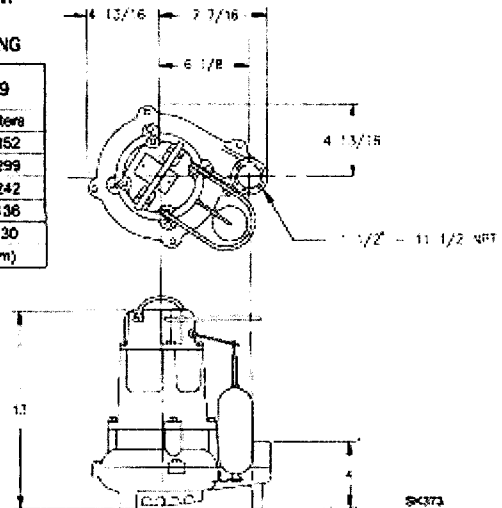
DWG. NO:



TOTAL DYNAMIC HEAD/FLOW
PER MINUTE
EFFLUENT AND DEWATERING

MODEL 137/139			
Feet	Meters	Gal.	Liters
5	1.5	93	352
10	3.1	78	299
15	4.6	64	242
20	6.1	38	136
25	7.6	8	30
Shut-off Head		26 ft (8.0m)	

009521B



CONSULT FACTORY FOR SPECIAL APPLICATIONS

- Three phase pumps are available in 200/208V, 230V or 460V.
- Electrical alternators, for duplex systems, are available and supplied with an alarm.
- Mechanical alternators, for duplex systems, are available with or without alarm switches.
- Simplex Panels are available for 3 phase pumps.
- Control alarm systems are available for 1 phase pumps.

- Variable level control switches are available for controlling single and three phase systems.
- Double piggyback variable level float switches are available for variable level long cycle controls.
- Over 130°F (54°C) special quotation required.
- Refer to FM1922 and FM0606 for temperatures over 130°F.

137 Series - 47 lbs. 139 Series - 51 lbs.

Single Seal			Control Selection				Listings	
Model	Volts-Ph		Mode	Amps	Simplex	Duplex	CSA	UL
M137/139	115	1	Auto	10.7	1	4	Y	Y
N137/139	115	1	Non	10.7	2 or 3	2 or 4	Y	Y
BN137	115	1	Auto	10.7	"	4	Y	Y
D137/139	230	1	Auto	5.8	1	4	Y	Y
E137/139	230	1	Non	5.8	2 or 3	4	Y	Y
H137/139	200-208	1	Auto	6.2	3	4	Y	N
I137/139	200-208	1	Non	6.2	3	4	Y	N
J137/139	200-208	3	Non	2.6	3	4	Y	Y
F137/139	230	3	Non	2.6	3	4	Y	Y
G137	460	3	Non	1.4	3	4	N	N
G139	460	3	Non	1.4	3	4	N	N

* No molded plug **Single piggyback switch included.

Pumps must be operated in upright position.

Three phase units require a control switch to operate an external magnetic contactor.

For information on additional Zoeller products refer to catalog on Piggyback Variable Level Float Switches, FM0477; Electrical Alternator, FM0468; Mechanical Alternator, FM0495; Alarm Package, FM0732; and Sump/Sewage Basins, FM0487.

SELECTION GUIDE

1. Integral float operated mechanical switch, no external control required.
2. For automatic use single piggyback variable level float switch or double piggyback variable level float switch. Refer to FM0477.
3. See FM1228 for correct model of simplex control panel.
4. See FM0712 for correct model of duplex control panel or FM1663 for a residential alternator system.

CAUTION

All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All electrical and safety codes should be followed including the most recent National Electric Code (NEC) and the Occupational Safety and Health Act (OSHA).

RESERVE POWERED DESIGN

For unusual conditions a reserve safety factor is engineered into the design of every Zoeller pump.



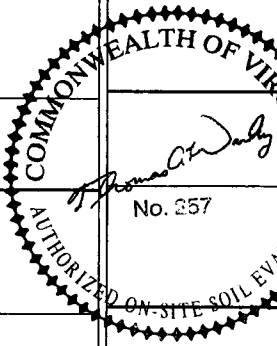
<http://www.zoeller.com>

ZOELLER
PUMP CO.

MAIL TO: P.O. BOX 16347
Louisville, KY 40256-0347
SHIP TO: 3649 Cane Run Road
Louisville, KY 40211-1961
(502) 778-2731 • 1 (800) 828-PUMP
FAX (502) 774-3624

Manufacturers of . . .

"QUALITY PUMPS SINCE 1939"

Design	Notes
Water supply, existing: (describe) _____ To be installed: class <u>IIIB Well</u> cased <u>50'</u> grouted <u>50'</u>.	
Building sewer: <u>4"</u> I.D. PVC 40, or equivalent. Slope <u>1.25"</u> per 10' (minimum). <u>Other</u> _____	
Septic tank: Capacity <u>1000</u> gals (minimum) <u>Other</u> _____	
Inlet-Outlet structure: PVC 40, 4" tees or equivalent. <u>Other</u> _____	
Pump and pump station: No <u> </u> Yes <u>X</u> Describe and show design if yes: <u>See page 9 of 12</u>	
Gravity mains: 3" or larger I.D., minimum 6" fall per 100', 1500 lb. Crush strength or equivalent. <u>Other</u> _____	
Distribution box: Precast concrete with <u>12</u> ports. <u>Other</u> _____	
Header lines: Material: 4" I.D. 1500 lb. Crush strength plastic or equivalent from distribution box to 2' into absorption trench. Slope 2" minimum. <u>Other</u> _____	
Percolation Lines: Gravity 4" plastic 1000 lb. Per foot bearing load or equivalent, slope 2"-4" (min.-max.) per 100'. <u>Other</u> _____	
Absorption Area: Square ft. required <u>1155</u>; depth from ground surface to bottom of trench <u>18"</u>; Trench Width <u>3'</u>; depth of aggregate <u>13"</u>; trench length <u>35'</u>; number of trenches <u>11</u>.	

Certification Statement

County: Madison Date: February 26, 2007.

Property Identification: TM 9-33H.

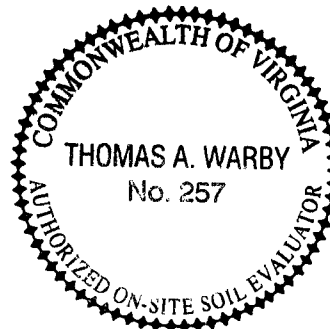
Submitted by: Thomas A. Warby, A.O.S.E..

This is to certify according to §32.1-163.5 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Virginia Department of Health. I recommend a permit¹ be approved².

AOSE Thomas A. Warby Date: 2-26-07.

¹ This blank must be filled in with one of the following terms: 'permit', 'certification letter', or 'subdivision approval'.

² This blank must be filled in either the term 'approved' or 'denied'.



TAG SHEET

SD-07-40

NAME: Smith, Stephen + Renee Jakobs TAX MAP ID _____

Application For Construction Permit _____ Certification _____

INITIALS

DATE

Application Received:	<u>Say</u>	<u>3/7/07</u>
Application Reviewed:	<u>/</u>	<u>/</u>
Fee Determined:	<u>/</u>	<u>/</u>
Assigned To:	<u>/</u>	<u>/</u>
Site Visit Scheduled:		
Initial Site Visit Made:	<u>DN</u>	<u>3-21-07</u>
Application Deactivated:	<u>/</u>	<u>/</u>
Purpose:		

Reactivation:	<u>/</u>	<u>/</u>
Follow Up Visit:	<u>/</u>	<u>/</u>
Follow Up Visit:	<u>/</u>	<u>/</u>
Follow Up Visit:	<u>/</u>	<u>/</u>
Issue/Deny Drafted:	<u>DN</u>	<u>3-21-07</u>
Issue/Deny Reviewed:	<u>CS</u>	<u>3-27-07</u>
Issue/Deny Countersigned:	<u>/</u>	<u>/</u>
Issue/Deny Mailed:	<u>/</u>	<u>/</u>

MADISON

COUNTY, VA.

DEED NO.

070001804



Madison County Health Department
400-A North Main Street PO Box 67
Madison, Virginia 22727
(540) 948-5481 Voice
(540) 948-3841 Fax

March 21, 2007

Return Stephen Smith

TO: 2422 Silver Fox Lane
Reston, Virginia 20191

Re: **Conditional Permit - HDID # SD-07-40**

Tax Map: 9-33H Grid C-13

Located at: Champe Plain Road

Etlan, Virginia 22719

Lot Size: 7.0621 Acre(s):

Directions: Take rt 231 towards Etlan. Turn left on rte 646, a dirt road on the left shortly after the intersection with rte 644 leads to the lot

Dear Stephen Smith,

Your application for a conditional sewage disposal system construction permit filed on March 7, 2007 with the Madison County Health Department, has been evaluated in accordance with the requirements contained in Section 32.164.1 of the Code of Virginia, 12 VAC 5-610-250 of the Sewage Handling and Disposal Regulations, and current agency policies and procedures for processing applications for Conditional Permits.

This letter, in conjunction with the approved plans (12 pages) dated February 26, 2007, which are attached, constitutes your permit to install a sewage disposal system [and well]. The application for a permit was submitted pursuant to §32.1-163.5 of the Code of Virginia which requires the Health Department to accept private soil evaluations and designs from an Authorized Onsite Soil Evaluator (AOSE) or a Professional Engineer working in consultation with an AOSE for residential development. The permitted site was certified as being in compliance with the Board of Health's regulations (and local ordinances if the locality has authorized the local health department to accept private evaluations for compliance with local ordinances) by: Warby, Thomas A., AOSE # 257, (540) 937-6623. This letter is issued in reliance upon that certification.

Based on information filed with your application, and the site and soil evaluations conducted by the AOSE, this is to inform you that your application for a Conditional Permit is hereby approved. The items listed below are part of the permit and constitute the conditions that are and have been applied to the approval, installation, and usage of the sewage disposal system:

- A. This letter is a part of the conditional sewage disposal system construction permit issued for the above referenced location.
- B. This letter shall be recorded and indexed in the grantor index under your name in the land records of the Clerk of the Circuit Court that has proper jurisdiction over this property.
- C. You must furnish the Madison County Health Department certification from the Clerk of

the Circuit Court which indicates the deed book number and page number (or instrument number) upon which the permit and all conditions have been recorded. A copy of this certification shall be attached to all copies of the permit prior to giving validation to the Building Official for issuance of a building permit.

****** CONDITIONS INCLUDE ******

Reduced water flow based on permanent water saving plumbing devices (Low Flow Toilet Fixtures)

In accordance with the Virginia Administrative Process Act, the Health Laws of Virginia, Section 32.1-164.1 of the Code of Virginia, and 12 VAC 5-610-200 & 220 of the Sewage Handling and Disposal Regulations, this letter is to further inform you of your right of appeal to obtain a modification or elimination of the conditions established in and for the issuance of this permit.

If you desire to pursue this right, in which you may at your discretion be represented by counsel, the first step in the appeal process is to submit your written request for an informal fact-finding conference to Lilian Peake, M.D., M.P.H., Acting Director, Rappahannock/Rapidan Health District, 1138 Rose Hill Drive, Charlottesville, Virginia 22903. Your request should state the basis for the appeal and should outline all the facts and such other data or other information which would support your appeal of the decisions establishing the conditions outlined above.

If this office may be of further service to you, please let us know.

DJ Dixon
Dwayne Dixon, EHS
Reviewed by: Charles E. Smith
Environmental Health Manager/Supervisor

INSTRUMENT #070001804
RECORDED IN THE CLERK'S OFFICE OF
MADISON ON
AUGUST 17, 2007 AT 02:32PM
CAROLINE WATTS, CLERK
M.E. Smith, D.C.
RECORDED BY: MES

I authorize that this permit and letter be recorded in the grantor index of the Clerk of the Circuit Court of Madison County (City) under my name.

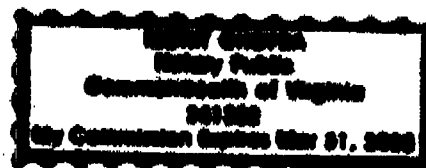
Stephen Smith
Stephen Smith

Subscribed, acknowledged, and sworn to before me this 1st day of AUGUST 2007
in the City/County of FAIRFAX, Commonwealth of Virginia.

M. Allen
Notary Public

My commission expires MARCH 31, 2008.

Cc: Building Inspection



Commonwealth of Virginia
Application for a Sewage Disposal and/or Water Supply Permit

Health Department ID

05-190

To Be Completed By The Applicant

Type of Sewage system: ☒ New ☐ Repair ☐ Expanded ☐ Conditional
FHA/VA yes ☐ no ☐ Case No. _____

Owner _____ Address _____ Phone _____

Agent Irish Bartholomew Address 311 Gay St Phone 675-1190
Washington VA 22747

Directions of Property 231 N Left on 646 to Jefferson Land Realty Sign Left
Follow Signs and Orange Flagging Tape along Right of Way Make Left Before Stream Follow to End

Subdivision _____ Section _____ Block _____ Lot _____

Other Property Identification _____

Dimension/size of Lot/Property Tax Map 9-33H

Other Application Information

I. Building/facility ☒ New ☐ Existing
Intermittent Use ☐ Yes ☐ No If yes, describe _____

II. Residential Use ☒ Yes ☐ No
Termite Treatment ☒ Yes ☐ No
☒ Single Family ☐ Multi-family
(Number of Bedrooms 3), (Number of Units _____)

Basement ☒ Yes ☐ No
Fixtures in Basement ☒ Yes ☐ No

III. Commercial Use ☐ Yes ☐ No Describe: _____
Commercial/Wastewater ☐ Yes ☐ No Number of Patrons _____
Number of Employees _____

If yes, give volumes and describe _____

IV. Water Supply: ☐ Public ☐ New ☐ Existing
☒ Private ☒ New ☐ Existing

Describe: _____

V. Proposed Sewage Disposal Method:

Onsite Sewage Disposal System: ☐ Septic Tank ☒ Drainfield ☐ LPD ☐ Mound ☐ Other

Public Sewerage System

Attach a site plan (rough sketch) showing dimensions of property, proposed and/or existing structures and driveways, underground utilities, adjacent soil absorption system, bodies of water, drainage ways, and wells and springs within 200 feet radius of the center of the proposed well or drainfield. Distances may be paced or estimated.

The property lines and building location are clearly marked and the property is sufficiently visible to see the topography. I give permission to the Department to enter onto the property described for the purpose of processing this application.

Signature of Owner/Agent

Date

8-22-05

Commonwealth of Virginia

Application for a Sewage Disposal and/or Water Supply Permit

Health Department ID

05-190

To Be Completed By The Applicant

Type of Sewage system: ☒ New ☐ Repair ☐ Expanded ☐ Conditional
FHA/VA yes ☐ no ☐ Case No. _____

Owner _____ Address _____ Phone _____

Agent Trish Bartholomew Address 311 Gay St Phone 625-1190
Washington VA 22247

Directions of Property 231 N Left on 646 to Jefferson Land Realt. Sign Left
Follow Signs and Orange Flagging Turn onto Right of Way Make Left Before Stream Follow to End

Subdivision _____ Section _____ Block _____ Lot _____

Other Property Identification _____

Dimension/size of Lot/Property Tag Map 9-33H

Other Application Information

I. Building/facility ☒ New ☐ Existing
Intermittent Use ☐ Yes ☐ No If yes, describe _____

II. Residential Use ☒ Yes ☐ No
Termite Treatment ☒ Yes ☐ No
☒ Single Family ☐ Multi-family
(Number of Bedrooms 3) (Number of Units _____)

Basement ☒ Yes ☐ No
Fixtures in Basement ☒ Yes ☐ No

III. Commercial Use ☐ Yes ☐ No Describe: _____
Commercial/Wastewater ☒ Yes ☐ No Number of Patrons _____
Number of Employees _____

If yes, give volumes and describe _____

IV. Water Supply: ☐ Public ☒ Private ☒ New ☐ Existing
☒ New ☐ Existing

Describe: _____

V. Proposed Sewage Disposal Method:

Onsite Sewage Disposal System: ☐ Septic Tank ☒ Drainfield ☐ LPD ☐ Mound ☐ Other

Public Sewerage System

Attach a site plan (rough sketch) showing dimensions of property, proposed and/or existing structures and driveways, underground utilities, adjacent soil absorption system, bodies of water, drainage ways, and wells and springs within 200 feet radius of the center of the proposed well or drainfield. Distances may be paced or estimated.

The property lines and building location are clearly marked and the property is sufficiently visible to see the topography. I give permission to the Department to enter onto the property described for the purpose of processing this application.

Signature of Owner/Agent

Date

Commonwealth of Virginia

Application for a Sewage Disposal and/or Water Supply Permit

Health Department ID

05-190

To Be Completed By The Applicant

Type of Sewage system: ☒ New ☐ Repair ☐ Expanded ☐ Conditional
FHA/VA yes ☐ no ☐ Case No. _____

Owner _____ Address _____ Phone _____

Agent Irish Ba. Hickman Address 3116 S. 1st Phone 625-1190
Washington, VA 22207

Directions of Property 211 N. 1st St. to 646 to J. Harrison Ln. to Rte 11 to Lot 4
Follow Signs to Orange City, turn right on 1st St. of Wm. Make Left before Street Full to End

Subdivision _____ Section _____ Block _____ Lot _____

Other Property Identification _____

Dimension/size of Lot/Property To Map 9-23H

Other Application Information

I. Building/facility ☒ New ☐ Existing
Intermittent Use ☐ Yes ☐ No If yes, describe _____

II. Residential Use ☐ Yes ☐ No
Termite Treatment ☒ Yes ☐ No
☐ Single Family ☐ Multi-family
(Number of Bedrooms _____) (Number of Units _____)

Basement ☒ Yes ☐ No
Fixtures in Basement ☒ Yes ☐ No

III. Commercial Use ☐ Yes ☐ No Describe: _____
Commercial/Wastewater ☐ Yes ☐ No Number of Patrons _____
Number of Employees _____

If yes, give volumes and describe _____

IV. Water Supply: ☐ Public ☒ Private ☒ New ☐ Existing
☐ New ☐ Existing

Describe: _____

V. Proposed Sewage Disposal Method:

Onsite Sewage Disposal System: ☐ Septic Tank Drainfield ☒ LPD ☐ Mound ☐ Other

Public Sewerage System

Attach a site plan (rough sketch) showing dimensions of property, proposed and/or existing structures and driveways, underground utilities, adjacent soil absorption system, bodies of water, drainage ways, and wells and springs within 200 feet radius of the center of the proposed well or drainfield. Distances may be paced or estimated.

The property lines and building location are clearly marked and the property is sufficiently visible to see the topography. I give permission to the Department to enter onto the property described for the purpose of processing this application.

Signature of Owner/Agent

Date

Important Notice

PLEASE READ BEFORE FILING YOUR APPLICATION
AND PAYING YOUR FEE

TYPE OF APPLICATION

Section 12 VAC 5-610-225-A of The Sewage Handling and Disposal Regulations reads; An applicant for a sewage disposal system who does not intend to build within 18 months of application shall apply for a certification letter. The process shall be the same as for a system application made in accordance with 12 VAC 5-610-250. The fees charged for the certification letter shall be the same as prescribed in § 32.1-164 C of the Code of Virginia. With this understanding I am making the following type of application:

☐

I plan to build within 18 months and am making application for a sewage disposal construction permit. Building Permit application is required.

☒

I do not plan to build now so I am making application for a certification letter.

FEE REFUNDS

This is to inform you that fees for Environmental Health permits mandated by the State, cannot be refunded once the application has been filed and the fee paid except for the following reasons:

1. If you, as the applicant, withdraw your application before the Environmental Health Specialist makes a visit to evaluate the property.
2. The Health Department is unable to issue a permit or certification letter and only if you are the property owner and are seeking to construct your principal place of residence on the property, and you provide written notification to the Health Department that you are foregoing your right to appeal the denial of your request for a permit.

In order for you to then appeal at a later date, the above refunded fee would need to be paid before a hearing date would be scheduled.

BEFORE YOU PAY THE FEE FOR A SEPTIC SYSTEM PERMIT
PLEASE READ THE FOLLOWING CAREFULLY

It is your responsibility to make it clear to the Environmental Health Specialist which area on the property you want tested, although he/she will advise you which areas on the property appear to be more suitable for a septic system. One alternate site can be examined if the first site fails to meet the regulations. The permit will be issued showing the location of the system in only one suitable site. The site cannot be changed later without additional expense on your part (You will need to hire a private soil consultant to test another site and submit their report, along with a new application and fee to the Health Department). If you do not intend to build now, but only need the soil tested before a sale is made, we recommend you hire a soil consultant to do the test and apply for a Health Department permit when you know where you want to build.

I have read and understand the above application notice.

Signature

Date

Note that the back of this form
may be used for your site plan
sketch.

REC.# 22135860
Rapp. Real Estate Resources

TAG SHEET

SD- 05-190

NAME: Trish Bartholomew TAX MAP ID 9-33H

Application For Construction Permit Certification

INITIALS

DATE

Application Received:

OK 8/24/05

Application Reviewed:

OK 8/24/05

Fee Determined:

SA 8/24/05

Assigned To:

Site Visit Scheduled:

Initial Site Visit Made:

DN 9-7-05

Application Deactivated:

DN 9-7-05

Purpose:

need DF plat

Reactivation:

Follow Up Visit:

Follow Up Visit:

Follow Up Visit:

Issue/Deny Drafted:

Issue/Deny Reviewed:

Issue/Deny Countersigned:

Issue/Deny Mailed:

Plat never
received

Soil Evaluation Form

PAGE _____ OF _____

Commonwealth of Virginia
Department of HealthHealth Department
Identification Number _____
Tax Map Number _____

General Information

Date 9-7-05 Madison Co Health Department
Applicant Irish Bartholomew Telephone No. _____
Address _____
Owner _____ Address _____
Location Rt 646
Subdivision _____ Block/Section _____ Lot _____

Soil Information Summary

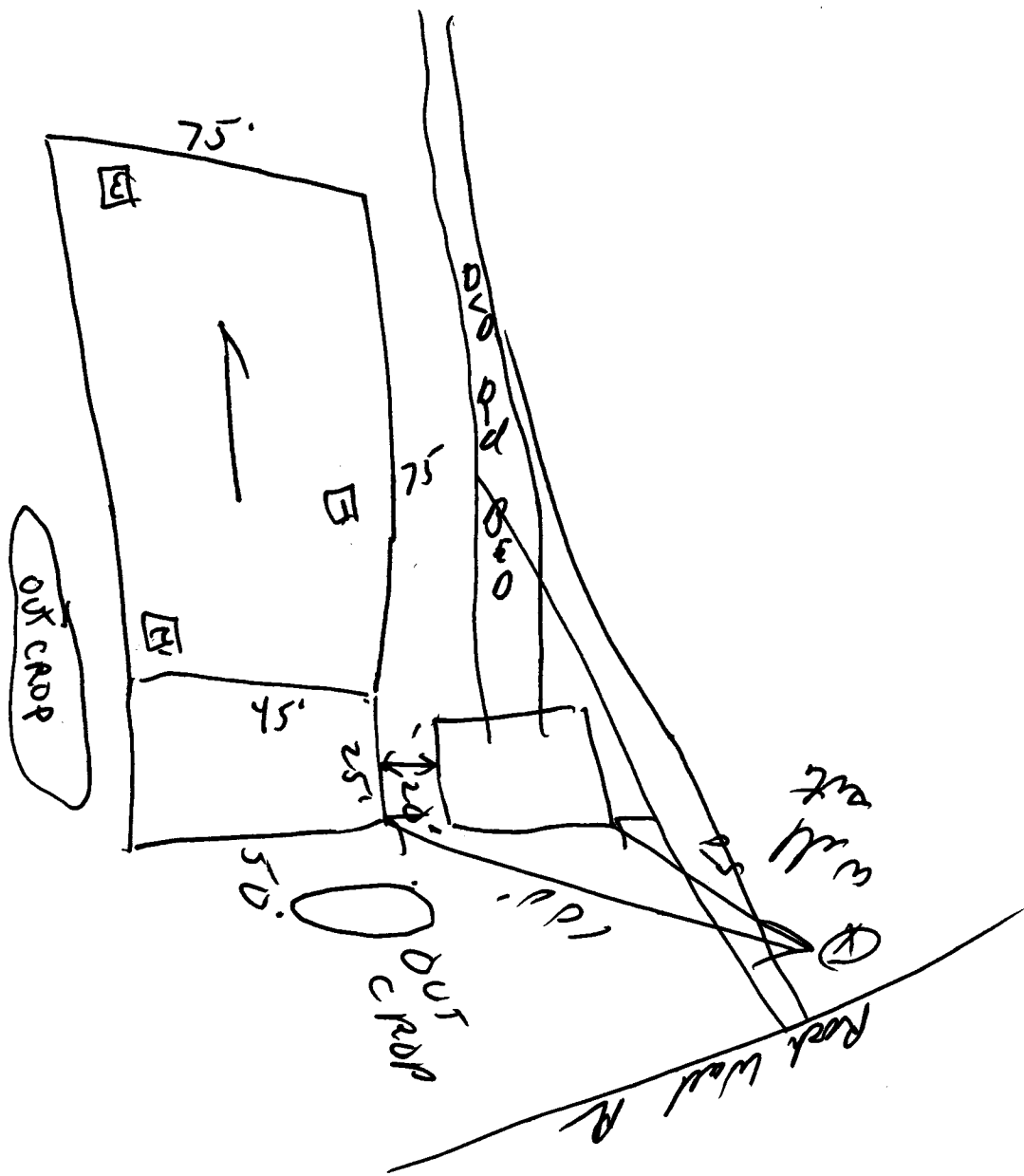
1. Position in landscape satisfactory Yes ☐ No ☐ Describe front slope
2. Slope 6% %
3. Depth to rock/impervious strata Max. 450 Min. _____ None _____
4. Depth to seasonal water table (gray mottling or gray color) No ☒ Yes ☐ _____ inches
5. Free water present No ☒ Yes ☐ _____ range in inches
6. Soil percolation rate estimated Yes ☒ No ☐ Texture group I II ☒ III IV
Estimated rate 5 min/inch
7. Percolation test performed Yes ☐ No ☐ Number of percolation test holes _____
Depth of percolation test holes _____
Average percolation rate _____
- Name and title of evaluator: DT Dixon
- Signature: [Signature]

Department Use

☒ Site Approved: Drainfield to be placed at 30 depth at site designated on permit.☐ Site Disapproved:

Reasons for rejection:

1. ☐ Position in landscape subject to flooding or periodic saturation.
2. ☐ Insufficient depth of suitable soil over hard rock.
3. ☐ Insufficient depth of suitable soil to seasonal water table.
4. ☐ Rates of absorption too slow.
5. ☐ Insufficient area of acceptable soil for required drainfield, and/or Reserve Area.
6. ☐ Proposed system too close to well.
7. ☐ Other Specify _____



Where the local health department conducts the soil evaluation the location of profile holes may be shown on the schematic drawing on the construction permit or the sketch submitted with the application. If soil evaluations are conducted by a private soil scientist, location of profile holes and sketch of the area investigated including all structural features i.e., sewage disposal systems, wells, etc., within 100 feet of site (See section 4) and reserve site shall be shown on the reverse side of this page or prepared on a separate page and attached to this form.

- ☐
- See application sketch
- ☐
- See construction permit
- ☐
- See sketch on reverse side or page attached to this form.

[illegible]

Remarks

MADISON
COUNTY, VA.
DEED No. 657

VIRGINIA: IN THE OFFICE OF THE CLERK OF THE CIRCUIT COURT
FOR THE COUNTY OF MADISON, THE 11 DAY OF JULY
1978, THE FOR DEED INSTRUMENT WAS PRESENTED, AND WITH
THE CERTIFICATE OF RECORDATION, IT OF TAX IMPROVED BY SECTION
O.C.G.A. 46-2-2, 21.15, 58.6.1 (ADDITIONAL) \$14.50
58.65 (LOCAL) \$2.05
TRANSFER \$1.00, RECORDING \$10.00, PLAT \$2.00

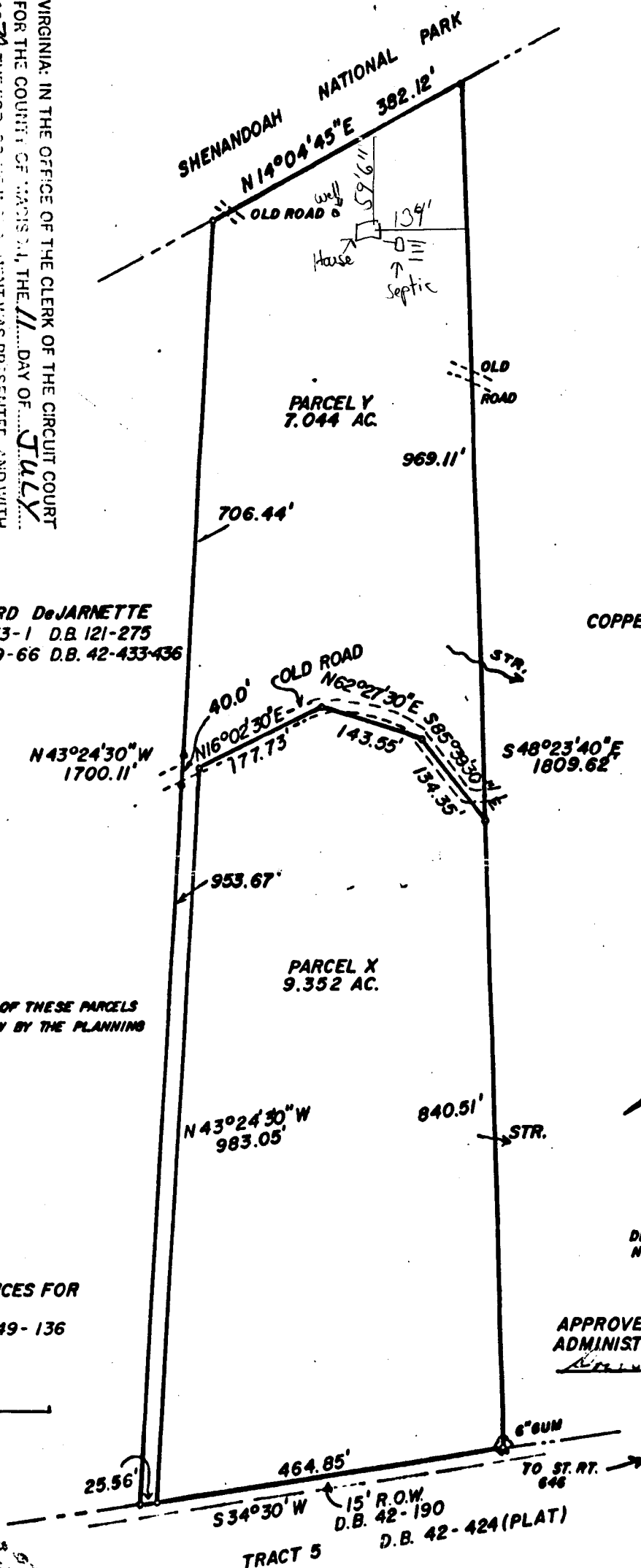
John M. Paul
CLERK - DEPUTY CLERK

H. CARD DeJARNETTE
D.B. 133-1 D.B. 121-275
D.B. 89-66 D.B. 42-433-436

NOTE: FURTHER SUBDIVISION OF THESE PARCELS
SHALL REQUIRE REVIEW BY THE PLANNING
COMMISSION.

DEED BOOK REFERENCES FOR
PARCELS X & Y:
D.B. 133-333 D.B. 49-136
D.B. 42-128

1"



DENOTES IRON UNLESS OTHERWISE
NOTED.

APPROVED BY THE ZONING
ADMINISTRATOR:
[Signature]

PLAT OF
PARCEL X AND Y, EDWARD A. DeJARNETTE
PROPERTY, LOCATED OFF ST. RT 546, NEAR ETLAN,
MADISON COUNTY, VIRGINIA.

SCALE: 1" = 200' DATE: 10-15-76
R.O. SNOW & ASSOC.
CHARLOTTESVILLE, VIRGINIA