



# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_ A/P \_\_\_\_\_

AGENCY REVIEW: \_\_\_\_\_ DATE \_\_\_\_\_

DO NOT WRITE ABOVE THIS LINE

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH 4 PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) Della Ratta Property Trust

DAYTIME PHONE \_\_\_\_\_ CELL 301-509-1018 FAX \_\_\_\_\_

MAILING ADDRESS 3890 Roxbury Mills Rd. (RTE 97) Glenwood MD 21738  
STREET CITY/TOWN STATE ZIP

APPLICANT Joseph Raphael Della Ratta

DAYTIME PHONE \_\_\_\_\_ CELL 301-509-1018 FAX \_\_\_\_\_

MAILING ADDRESS 3900 Washington Rd. Glenwood MD 21738  
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION  
SUBDIVISION/PROPERTY NAME 'Villa de Speranza' LOT NO. \_\_\_\_\_

PROPERTY ADDRESS 3890 Roxbury Mills Rd. (RTE 97) Glenwood MD 21738  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 21 GRID B PARCEL(S) 132 PROPOSED LOT SIZE \_\_\_\_\_

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT. [Signature]  
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM  
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648  
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

A/P \_\_\_\_\_

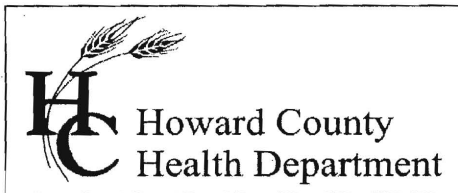
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H

REMARKS \_\_\_\_\_

SANITARIAN \_\_\_\_\_ BACKHOE \_\_\_\_\_ OTHERS \_\_\_\_\_

TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_



Bureau of Environmental Health  
8930 Stanford Blvd. Columbia, MD 21045  
(410) 313-2640 Fax (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-866-313-6300  
Website: [www.hchealth.org](http://www.hchealth.org)

Maura J. Rossman, M.D., Health Officer

Date: June 5, 2014

To: Leon Podolak and Associates, LLC.  
C/o Mr. Peter Podolak  
Via E-Mail: [drawingslapodolak.com](mailto:drawingslapodolak.com)

RE: **Percolation Testing Report**  
**3890 Roxbury Mills Road, Tax Map 21, Parcel 132**

Mr. Pololak,

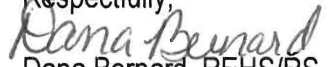
Percolation testing was conducted on the referenced property on June 5, 2014. The purpose for conducting these percolation tests was for an anticipated establishment of a sewage disposal area for the existing lots.

A total of six (6) test holes evaluated and five (5) were found to be satisfactory with moderate percolation rates. Acceptable ranges for recommended inlet and trench bottom depth, and usable sidewall are indicated, and may be confirmed at the time of installation for the five (5) percolation test holes which were satisfactory. Field data collected is shown on the Percolation Test Worksheet enclosed with this letter.

All percolation tests conducted were standard tests, measuring rate of fall for a pre-wet period followed by measurement and recordation of the time required for the water level to drop 1 inch. Areas that may be included in a septic reserve are represented by test locations having satisfactory soil conditions. The area of the septic reserve must be at least 10,000 square feet, though Howard County Code [3.805.A.2.X] requires that the area be large enough to accommodate an initial drain field and two repair drain fields for the planned residence.

The next step in this process is to submit a Percolation Certification Plan to confirm the design of the septic reserve area. If you have any questions regarding this evaluation or requirements for the Percolation Certification Plan, please contact me at the above address or by telephone at (410) 313-2775.

Respectfully,

  
Dana Bernard, REHS/RS  
Environmental Specialist II  
Well and Septic Program

Enclosures (2)  
File



Office of the Health Officer  
8930 Stanford Blvd., Columbia, MD 21045  
Main: 410-313-6300 | Fax: 410-313-6303  
TDD 410-313-2323 | Toll Free 1-866-313-6300  
[www.hchealth.org](http://www.hchealth.org)  
Facebook: [www.facebook.com/hocohealth](https://www.facebook.com/hocohealth)  
Twitter: [HowardCoHealthDep](https://twitter.com/HowardCoHealthDep)

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Maura J. Rossman, M.D., Health Officer

TO: Pete Podolak  
Leon Podolak and Associates, LLC.  
Via e-mail:

FROM: Dana Bernard, REHS/L.E.H.S.  
Well and Septic Program  
Development Coordination Section

RE: 3890 Roxbury Mills Road  
Percolation Certification Plan

DATE: July 1, 2014

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The following comments apply to the plan prepared by Leon Podolak and Associates, LLC. Applicant is advised to revise and resubmit.

- ✚ Please label all structures. Make a note for the cabin that it is a historical structure and is not connected to well or septic.)
- ✚ Existing septic system and all of its components must be shown, labeled and must state "To Be Abandoned".
- ✚ Show existing well and 2 alternates on both properties. If you would like to keep the existing hand dug well on 3890 Roxbury Mills Road you must submit a variance. Well symbol for the existing must be different for the alternate wells shown.
- ✚ Redesign septic area with the d-box in the upper middle of the easement near hole #10 and use 5 – 50' trenches going in either direction using holes #10 and #7. Then for system #1 the specs could be 3'-8' and for system #2 between 3'-5'.

If you have any questions or correspondence, I can be reached at the above address or by telephone at (410) 313-2775.

Sincerely,  
  
Dana Bernard, REHS/L.E.H.S.  
Environmental Specialist II  
Bureau of Environmental Health,  
Well and Septic Program  
Phone (410) 313-2775  
Fax (410) 313-2648  
E-mail: [DBernard@howardcountymd.gov](mailto:DBernard@howardcountymd.gov)

A/P

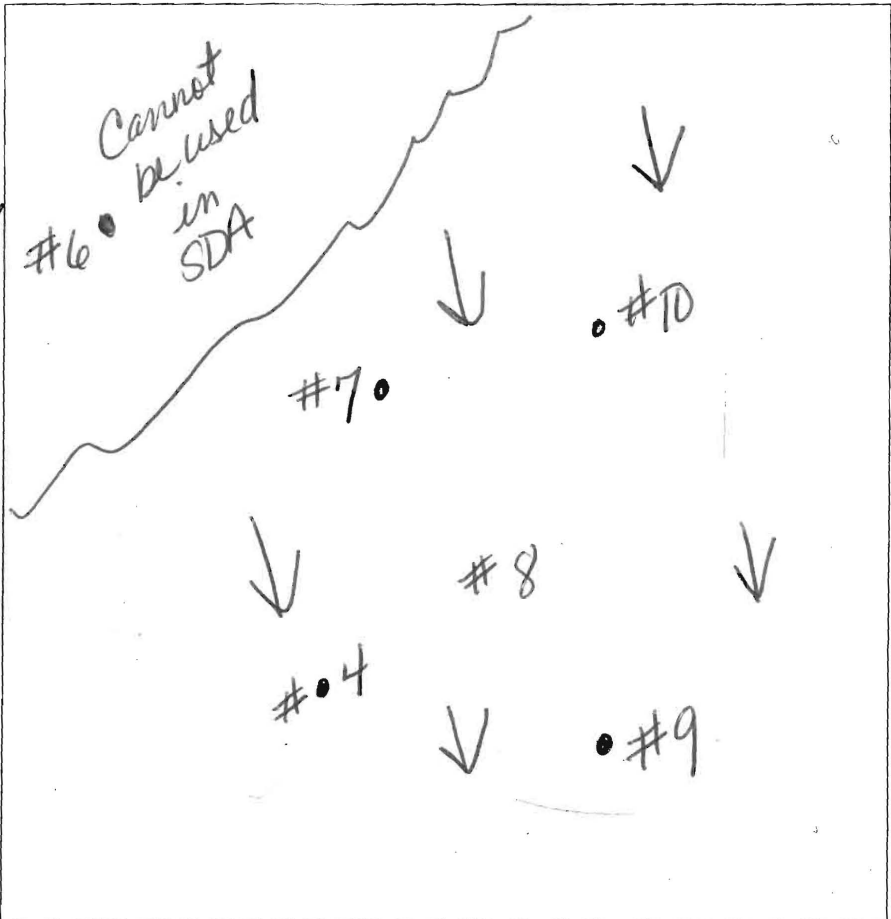
#4  
 Red Brown  
 8L  
 5-10% R4  
 3'  
 Red Brown  
 yellow  
 8h  
 20-30%  
 R4 @ 6'  
 ↓  
 12'

#6  
 Red Brown  
 8L  
 20-30%  
 R4  
 5'

Red Brown  
 yellow  
 30-40%  
 R4 Sh  
 10'  
 40-50%  
 R4  
 @ 10'  
 11'

#7  
 Red Brown  
 8L  
 3'  
 Red Brown  
 yellow  
 8h  
 many  
 mica  
 ↓  
 10'

Red Brown  
 yellow  
 8L  
 ↓  
 12'



#8  
 Red Brown  
 yellow  
 8L  
 3'  
 Red Brown  
 yellow  
 8h  
 5-10%  
 R4  
 H2O seeping @ 12'  
 H2O in the Bottom @ 13'

#9  
 Red Brown  
 yellow  
 8L  
 3'  
 Red Brown  
 yellow  
 8h  
 5-10%  
 R4  
 8.5'

Red Brown  
 yellow  
 modeling @ 9'  
 H2O in the Bottom @ 10'

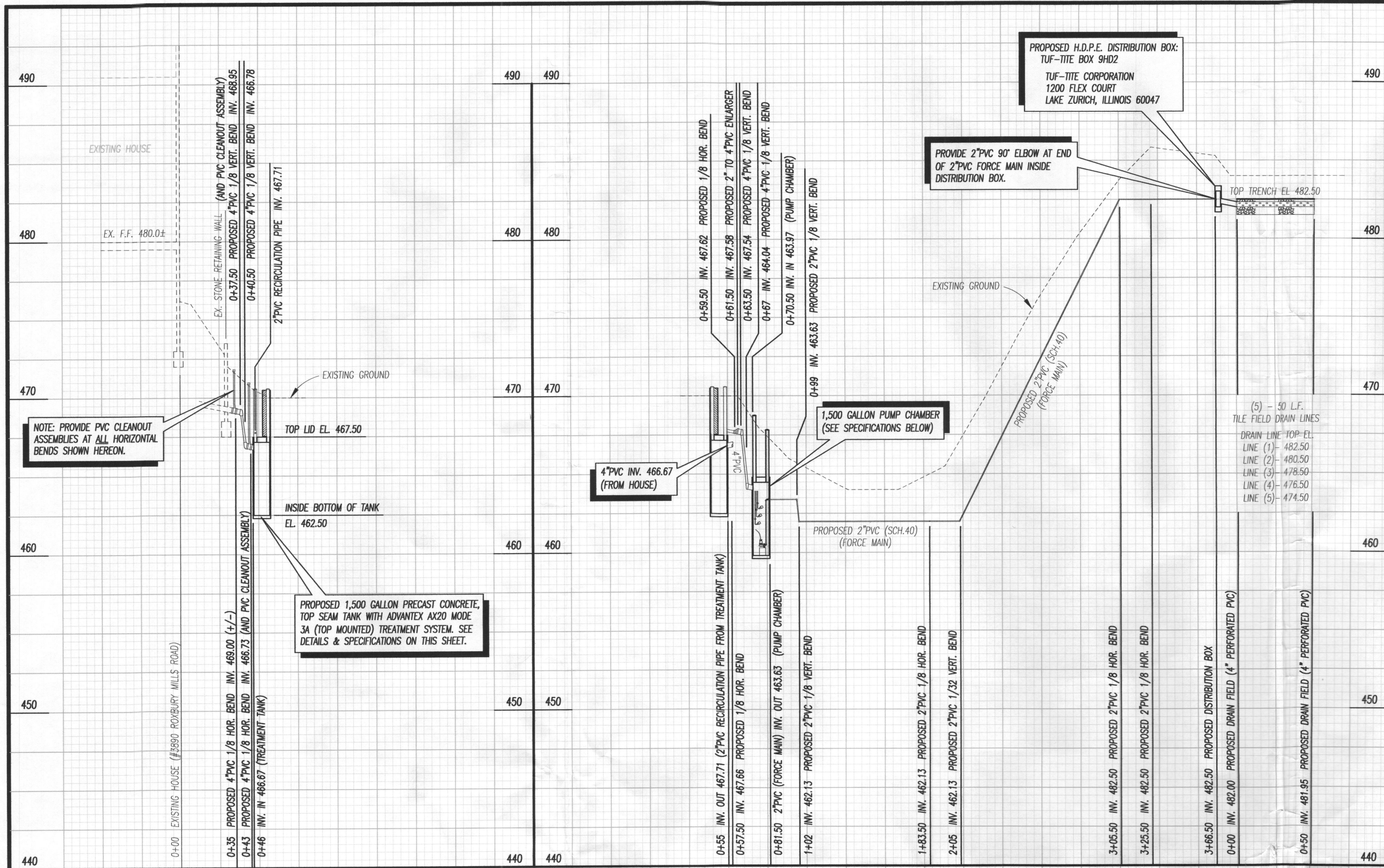
#10  
 Red Brown  
 8L  
 5-10%  
 R4  
 3'  
 Red Brown  
 yellow  
 8h  
 5-10%  
 R4  
 ↓  
 13'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
6-5-14	#4	3.7/12	10:53	10:56	10:59	3min	P
6-5-14	#6	11	11:12	DID NOT PASS			F
6-5-14	#7	4/12	11:42	11:47	11:55	8min	P
6-5-14	#8	4/13	12:06	12:14	12:25	11min	P
6-5-14	#9	4.5/10	12:31	12:38	12:45	8min	P
6-5-14	#10	4/13	1:07	1:09	1:13	4min	P

Too much R4

REMARKS Old System will have to be abandoned.  
 SANITARIAN DB BACKHOE Becraft/Petlack  
 TEST HOLES USED IN SDA 5 AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

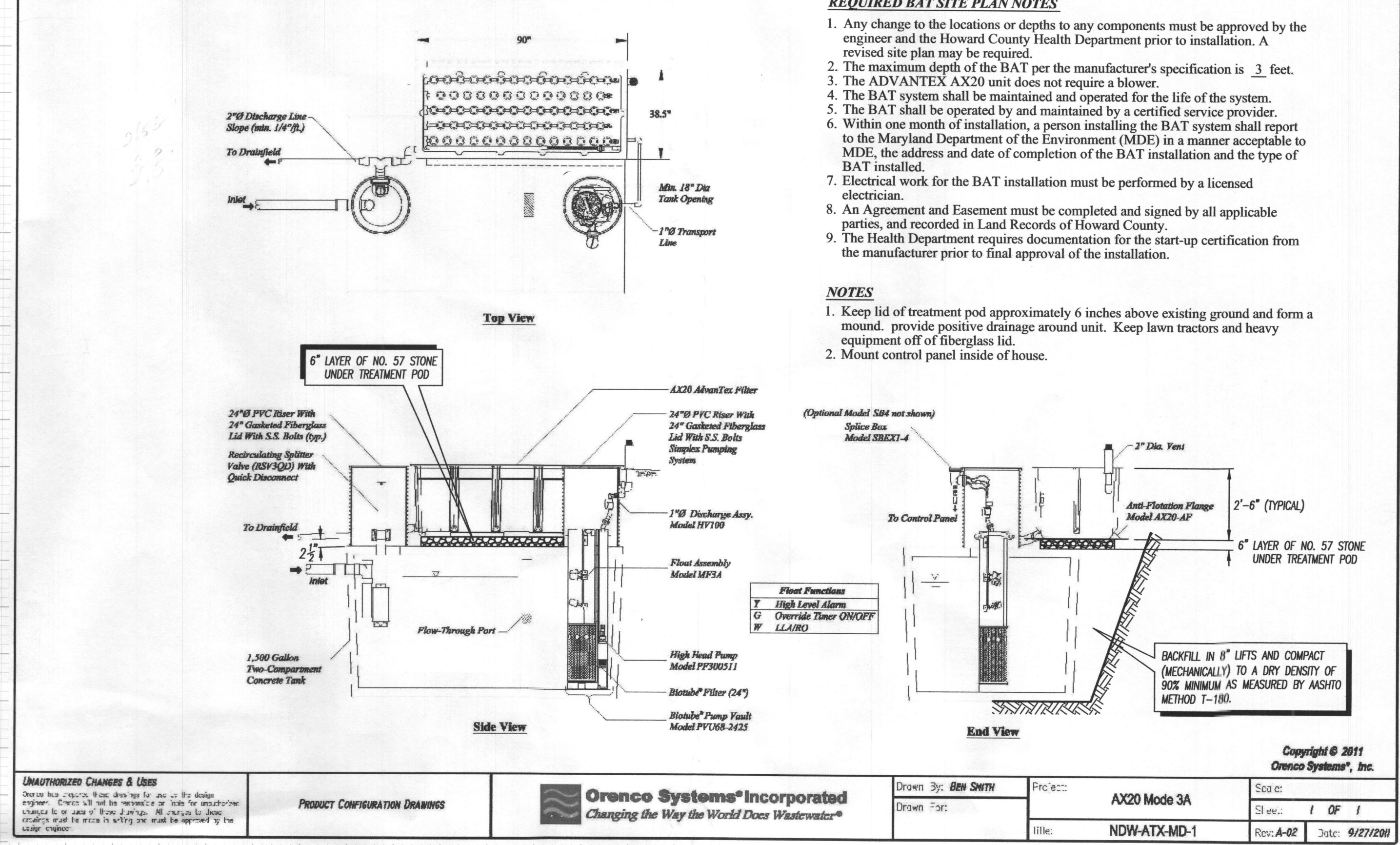




SEPTIC SYSTEM PROFILE (EXISTING 4-BEDROOM HOUSE TO INITIAL SYSTEM INSTALLATION)

SCALE: HORIZONTAL: 1"=50'  
VERTICAL: 1"=5'

AdvanTex® AX20 Mode 3A w/Concrete Tank - Maryland 4 Bedroom



- REQUIRED BAT SITE PLAN NOTES**
- Any change to the locations or depths to any components must be approved by the engineer and the Howard County Health Department prior to installation. A revised site plan may be required.
  - The maximum depth of the BAT per the manufacturer's specification is 3 feet.
  - The ADVANTEX AX20 unit does not require a blower.
  - The BAT system shall be maintained and operated for the life of the system.
  - The BAT shall be operated by and maintained by a certified service provider.
  - Within one month of installation, a person installing the BAT system shall report to the Maryland Department of the Environment (MDE) in a manner acceptable to MDE, the address and date of completion of the BAT installation and the type of BAT installed.
  - Electrical work for the BAT installation must be performed by a licensed electrician.
  - An Agreement and Easement must be completed and signed by all applicable parties, and recorded in Land Records of Howard County.
  - The Health Department requires documentation for the start-up certification from the manufacturer prior to final approval of the installation.

- NOTES**
- Keep lid of treatment pod approximately 6 inches above existing ground and form a mound. Provide positive drainage around unit. Keep lawn tractors and heavy equipment off of fiberglass lid.
  - Mount control panel inside of house.

Copyright © 2011 Orenco Systems®, Inc.

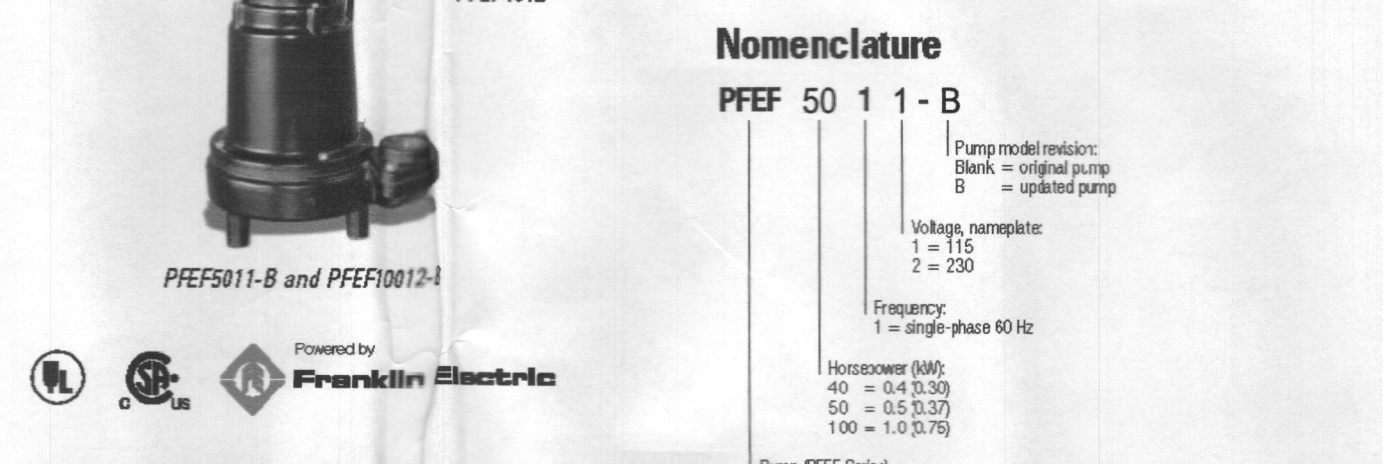
Technical Data Sheet

PFEF Submersible Effluent Pumps

**Applications**  
PFEF Effluent Pumps are used primarily for pumping effluent to low-pressure (gravity) dispersal areas. They can handle solids up to 3/4-inch (19-mm) in diameter, and their corrosion-resistant construction makes them highly durable in wastewater applications. All PFEF units are CSA and UL listed. Manufactured by Franklin Electric.

- Features/Specifications**
- To specify this product, require the following:
  - Ability to handle liquids and solid waste materials up to 3/4-inch (19-mm) in diameter
  - Cast iron pump housing and cover with epoxy coating for corrosion resistance
  - Oil-filled motor housing for lifetime lubrication and rapid heat dissipation
  - Stainless steel screws, bolts, handle, and seal assembly
  - Mechanical seals made of corrosion-resistant materials including stainless steel springs, nitrile parts, and carbon and ceramic faces
  - Thermal overload protection for motor
  - Rated for continuous duty
  - Three-year warranty from date of manufacture

**Standard Models**  
PFEF4011-B, PFEF4012, PFEF5011-B, PFEF5012-B, PFEF10012-B (Additional configurations available.)



**Materials of Construction**

Component	PFEF4011-B	PFEF4012	PFEF50XX-B	PFEF10012-B
Motor Housing	Epoxy-coated cast iron	Epoxy-coated cast iron	Epoxy-coated cast iron	Epoxy-coated cast iron
Impeller	Thermoplastic/astomer	Polycarbonate	Epoxy-coated cast iron	Epoxy-coated cast iron
Valve	Epoxy-coated cast iron	ABS	Epoxy-coated cast iron	Epoxy-coated cast iron
Power cord	16/3, SJTW	16/3, SJTW	16/3, SJTW	16/3, SJTW
Mechanical shaft seal	Nitrile, with carbon and ceramic faces	Nitrile, with carbon and ceramic faces	Nitrile, with carbon and ceramic faces	Nitrile, with carbon and ceramic faces
Upper bearings	Sintered sleeve	Sintered sleeve	Ball	Ball
Lower bearings	Ball	Ball	Ball	Ball
Shaft	High-strength steel	416 stainless steel	416 stainless steel	416 stainless steel
Fasteners	Stainless steel	Stainless steel	Stainless steel	Stainless steel

PUMP CHAMBER SPECIFICATIONS

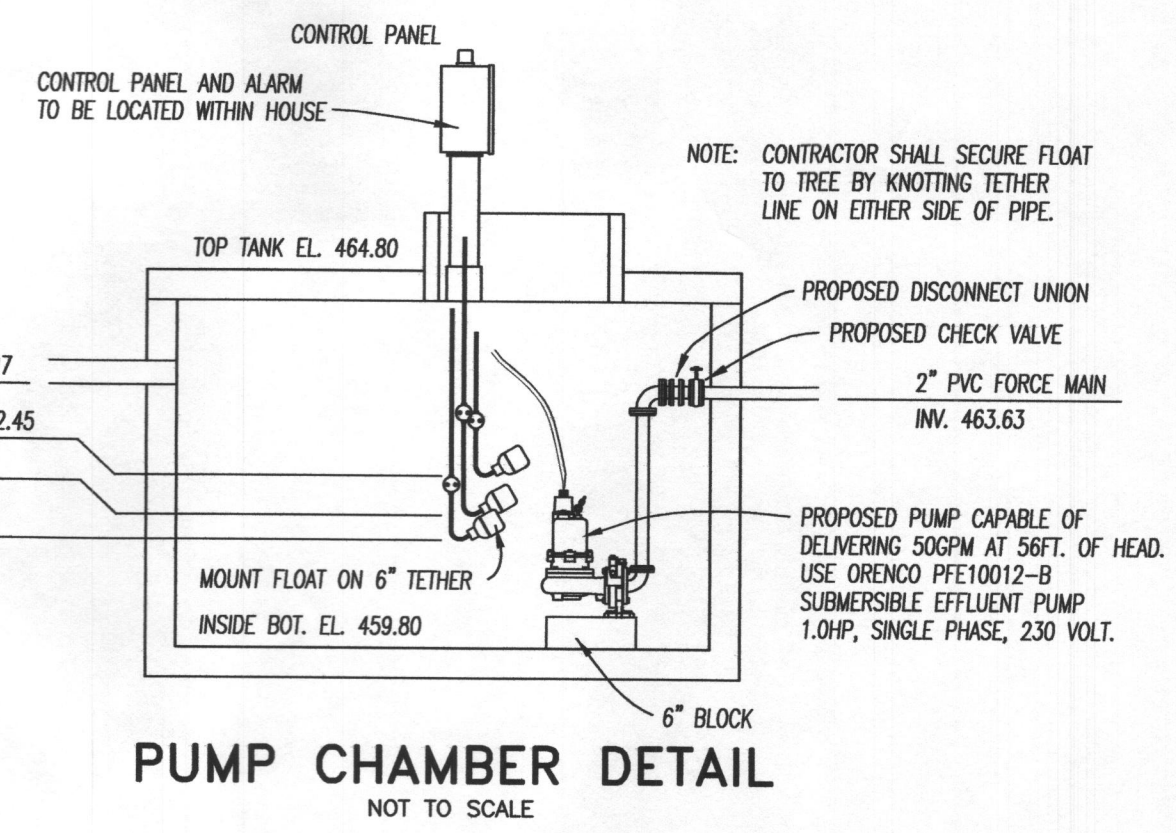
TANK SIZE	TOP TANK EL.	INSIDE BOT. EL.	INV. IN 4\"/>						
1,500 GALLON	464.80	459.80	463.97	463.63	462.45	461.95	461.65	646 GALLONS	425 GALLONS

PUMP SPECIFICATIONS

ORENCO PFEF5011-B HIGH HEAD DOSING PUMP WITH 60HZ, 115 VOLT, SINGLE PHASE POWER SOURCE. PUMP SHALL DOSE 40 GALLONS PER MIN. AT A MAXIMUM HEAD OF 29 FEET.

ORENCO SYSTEMS INC.  
1-800-348-9843  
www.orenco.com

ALL TANKS SHALL BE PRECAST CONCRETE, TOP SEAM, SEPTIC TANK BY BABYLON VAULT CO. OR APPROVED EQUIVALENT.  
NOTE: PRECAST PUMP CHAMBERS SHALL NOT INCLUDE INTERIOR BAFFLES.  
BABYLON VAULT COMPANY  
925 WINDFELD VALLEY ROAD  
NEW WINDSOR, MD 21776  
PHONE: (410) 848-0393



BAT SEPTIC SYSTEM PROFILE & SPECIFICATIONS

DELLA RATTA PROPERTY (VILLA DE SPERANZA) TAX MAP: 21 GRID: 8 PARCEL: 132 TAX ACCT. NO.: 04-313070

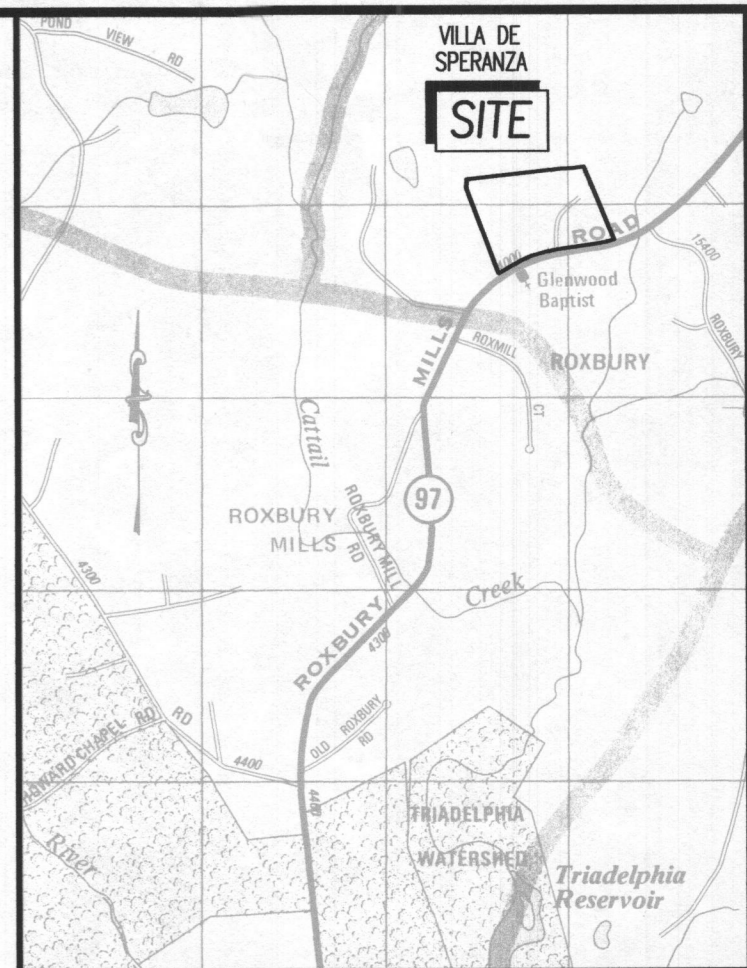
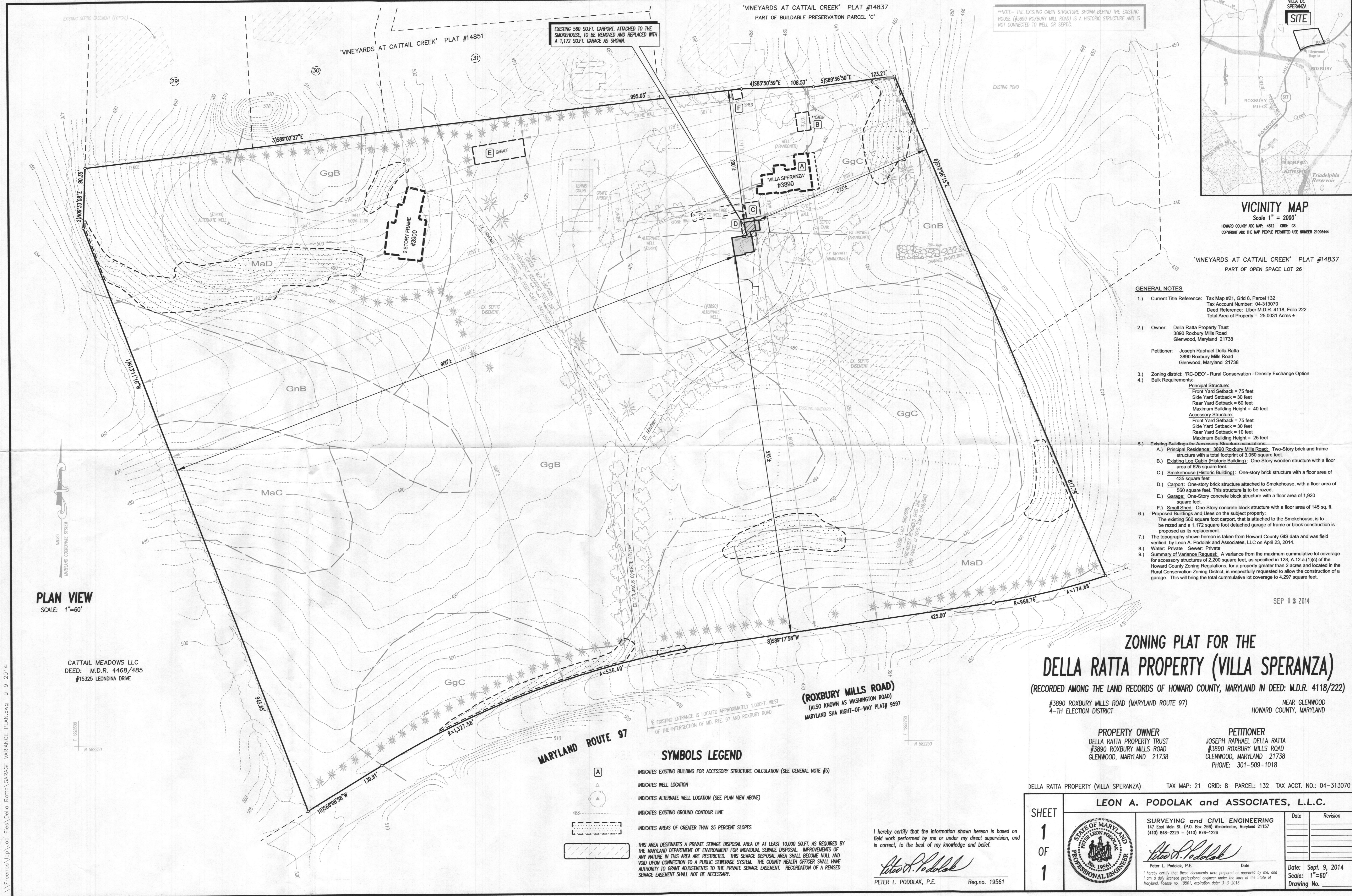
LEON A. PODOLAK and ASSOCIATES, L.L.C.

SHEET 2 OF 2

SURVEYING and CIVIL ENGINEERING  
147 East Main St. (P.O. Box 268) Westminster, Maryland 21157  
(410) 848-2229 - (410) 876-1226

Date: 7-18-2014  
Revision: HEALTH DEPT. COMMENTS

Date: July 8, 2014  
Scale: AS SHOWN  
Drawing No. \_\_\_\_\_



**VICINITY MAP**  
Scale 1" = 2000'  
HOWARD COUNTY ADC MAP: 4812 GRD: C8  
COPYRIGHT ADC: THE MAP PEOPLE PERMITTED USE NUMBER 2108444

'VINEYARDS AT CATTAIL CREEK' PLAT #14837  
PART OF OPEN SPACE LOT 26

- GENERAL NOTES**
- 1.) Current Title Reference: Tax Map #21, Grid 8, Parcel 132  
Tax Account Number: 04-313070  
Deed Reference: Liber M.D.R. 4118, Folio 222  
Total Area of Property = 25.0031 Acres ±
  - 2.) Owner: Della Ratta Property Trust  
3890 Roxbury Mills Road  
Glenwood, Maryland 21738  
  
Petitioner: Joseph Raphael Della Ratta  
3890 Roxbury Mills Road  
Glenwood, Maryland 21738
  - 3.) Zoning district: 'RC-DEO' - Rural Conservation - Density Exchange Option
  - 4.) Bulk Requirements:  
Principal Structure:  
Front Yard Setback = 75 feet  
Side Yard Setback = 30 feet  
Rear Yard Setback = 60 feet  
Maximum Building Height = 40 feet  
Accessory Structure:  
Front Yard Setback = 75 feet  
Side Yard Setback = 30 feet  
Rear Yard Setback = 10 feet  
Maximum Building Height = 25 feet
  - 5.) Existing Buildings for Accessory Structure calculations:  
A.) Principal Residence: 3890 Roxbury Mills Road, Two-Story brick and frame structure with a total footprint of 3,050 square feet.  
B.) Existing Log Cabin (Historic Building): One-Story wooden structure with a floor area of 625 square feet.  
C.) Smokehouse (Historic Building): One-story brick structure with a floor area of 435 square feet.  
D.) Carport: One-story brick structure attached to Smokehouse, with a floor area of 560 square feet. This structure is to be razed.  
E.) Garage: One-Story concrete block structure with a floor area of 1,920 square feet.  
F.) Small Shed: One-Story concrete block structure with a floor area of 145 sq. ft.
  - 6.) Proposed Buildings and Uses on the subject property:  
The existing 560 square foot carport, that is attached to the Smokehouse, is to be razed and a 1,172 square foot detached garage of frame or block construction is proposed as its replacement.
  - 7.) The topography shown hereon is taken from Howard County GIS data and was field verified by Leon A. Podolak and Associates, LLC on April 23, 2014.
  - 8.) Water: Private Sewer: Private
  - 9.) Summary of Variance Request: A variance from the maximum cumulative lot coverage for accessory structures of 2,200 square feet, as specified in 12B, A, 12.a.(1)(c) of the Howard County Zoning Regulations, for a property greater than 2 acres and located in the Rural Conservation Zoning District, is respectfully requested to allow the construction of a garage. This will bring the total cumulative lot coverage to 4,297 square feet.

SEP 12 2014

**ZONING PLAT FOR THE DELLA RATTA PROPERTY (VILLA SPERANZA)**  
(RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN DEED: M.D.R. 4118/222)

#3890 ROXBURY MILLS ROAD (MARYLAND ROUTE 97)  
4-TH ELECTION DISTRICT  
NEAR GLENWOOD  
HOWARD COUNTY, MARYLAND

**PROPERTY OWNER**  
DELLA RATTA PROPERTY TRUST  
#3890 ROXBURY MILLS ROAD  
GLENWOOD, MARYLAND 21738

**PETITIONER**  
JOSEPH RAPHAEL DELLA RATTA  
#3890 ROXBURY MILLS ROAD  
GLENWOOD, MARYLAND 21738  
PHONE: 301-509-1018

DELLA RATTA PROPERTY (VILLA SPERANZA) TAX MAP: 21 GRID: 8 PARCEL: 132 TAX ACCT. NO.: 04-313070

**LEON A. PODOLAK and ASSOCIATES, L.L.C.**

SHEET <b>1</b> OF <b>1</b>		<b>SURVEYING and CIVIL ENGINEERING</b> 147 East Main St. (P.O. Box 266) Westminster, Maryland 21157 (410) 848-2229 - (410) 876-1226		Date	Revision
				Date: <b>Sept. 9, 2014</b> Scale: <b>1"=60'</b> Drawing No.	

I hereby certify that the information shown hereon is based on field work performed by me or under my direct supervision, and is correct, to the best of my knowledge and belief.

PETER L. PODOLAK, P.E. Reg. no. 19561

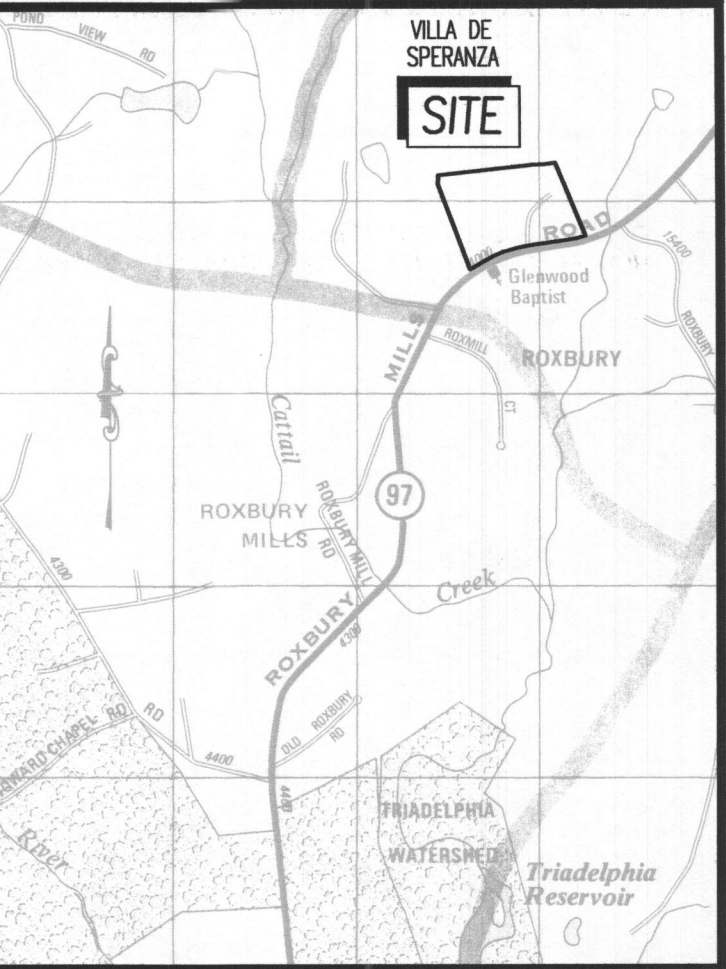
**SYMBOLS LEGEND**

- INDICATES EXISTING BUILDING FOR ACCESSORY STRUCTURE CALCULATION (SEE GENERAL NOTE #5)
  - INDICATES WELL LOCATION
  - INDICATES ALTERNATE WELL LOCATION (SEE PLAN VIEW ABOVE)
  - INDICATES EXISTING GROUND CONTOUR LINE
  - INDICATES AREAS OF GREATER THAN 25 PERCENT SLOPES
- THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQ.FT. AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

**PLAN VIEW**  
SCALE: 1"=60'

CATTAIL MEADOWS LLC  
DEED: M.D.R. 4468/485  
#15325 LEONINA DRIVE

\\francis\top\job\_files\Delia\_Ratta\Garage\_Variance\_Plan.dwg 9-9-2014



**VICINITY MAP**  
Scale 1" = 2000'  
HOWARD COUNTY ADC MAP: 4812 GRID: C8  
COPYRIGHT ADC THE MAP PEOPLE PERMITTED USE NUMBER 21096444

**SEWAGE FLOW CALCULATIONS**

Calculations based on State of Maryland COMAR 26.04.02.05  
Existing 4 bedroom house = 600 gallons per day  
Design flowrate = 600 gallons per day

**SEPTIC TANK DESIGN**

Tank Volume = 1,500 gallon tank required  
An existing septic tank is currently installed (Volume is undetermined) and shall be abandoned in accordance with Howard County Health Department regulations. A Nitrogen removal system (BAT) will be required to be installed as depicted on this site plan in accordance with Howard County Code requirements.

**SEWAGE DISPOSAL SYSTEM DESIGN**

**TILE FIELD SYSTEM DESIGN**  
Average Time of Percolation Tests = 6.8 minutes (...use 10 minutes for design)  
Application Rate = 0.80 gpd / sq.ft.  
Required Absorption Area of Tile Field = 600 gpd / (0.80) = 750 sq.ft.  
Length of standard trench (3ft. wide) = 750 sq.ft. = 250 ft.  
3 ft.  
250 feet of tile field drain line is required per system.

**GENERAL NOTES:**

- Zoning: RC-DEO (RURAL CONSERVATION - DENSITY EXCHANGE OPTION)
- Current Title Reference:  
TAX MAP: 21 GRID: 8 PARCEL: 132 ACCT. NO.: 04-313070  
Della Ratta Property Trust  
DEED: M.D.R. 4118/222 25.0031 ACRES±
- The topography of this plat is taken from Howard County GIS data and was field verified and updated on April 23, 2014 by Leon A. Podolak & Associates, LLC.
- Water: PRIVATE  
Sewer: PRIVATE
- Soil types shown hereon were taken from the National Resources Conservation Service Web Soil Survey 2.0, National Cooperative Soil Survey, Carroll County, Maryland (MD013), Soil Maps Version 10, Aug 9, 2010. (<http://websoilsurvey.nrcs.usda.gov>)
- Any changes to a private sewage easement shall require a revised percolation certification plan.
- All wells and septic systems located within 100' of the property boundaries and 200' down gradient of any wells and/or septic systems have been shown.
- The purpose of this plan is to upgrade the private sewerage facilities, to comply with Howard County Code, for the existing 4-bedroom dwelling known as 'Villa De Speranza' located at #3890 Roxbury Mills Rd. (Maryland Route 97).

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS  
*Barbara Ann Moore Rossman* 7/29/2014  
HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. DATE *sm rgg*

**SITE PLAN and PERCOLATION CERTIFICATION PLAN for the DELLA RATTA PROPERTY (VILLA DE SPERANZA)**  
(RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN DEED: M.D.R. 4118/222)

#3890 ROXBURY MILLS ROAD (MARYLAND ROUTE 97) NEAR GLENWOOD  
4-TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**PROPERTY OWNER**  
DELLA RATTA PROPERTY TRUST  
#3890 ROXBURY MILLS ROAD  
GLENWOOD, MARYLAND 21738

**APPLICANT**  
JOSEPH RAPHAEL DELLA RATTA  
#3900 WASHINGTON ROAD  
GLENWOOD, MARYLAND 21738  
PHONE: 301-509-1018

DELLA RATTA PROPERTY (VILLA DE SPERANZA) TAX MAP: 21 GRID: 8 PARCEL: 132 TAX ACCT. NO.: 04-313070

**LEON A. PODOLAK and ASSOCIATES, L.L.C.**

**SHEET 1 OF 1**

**SURVEYING and CIVIL ENGINEERING**  
147 East Main St. (P.O. Box 266) Westminster, Maryland 21157  
(410) 848-2229 - (410) 876-1228

Date: 6-9-2014  
Revision: 7-8-2014  
7-18-2014

Date: Apr. 28, 2014  
Scale: 1"=100'  
Drawing No.

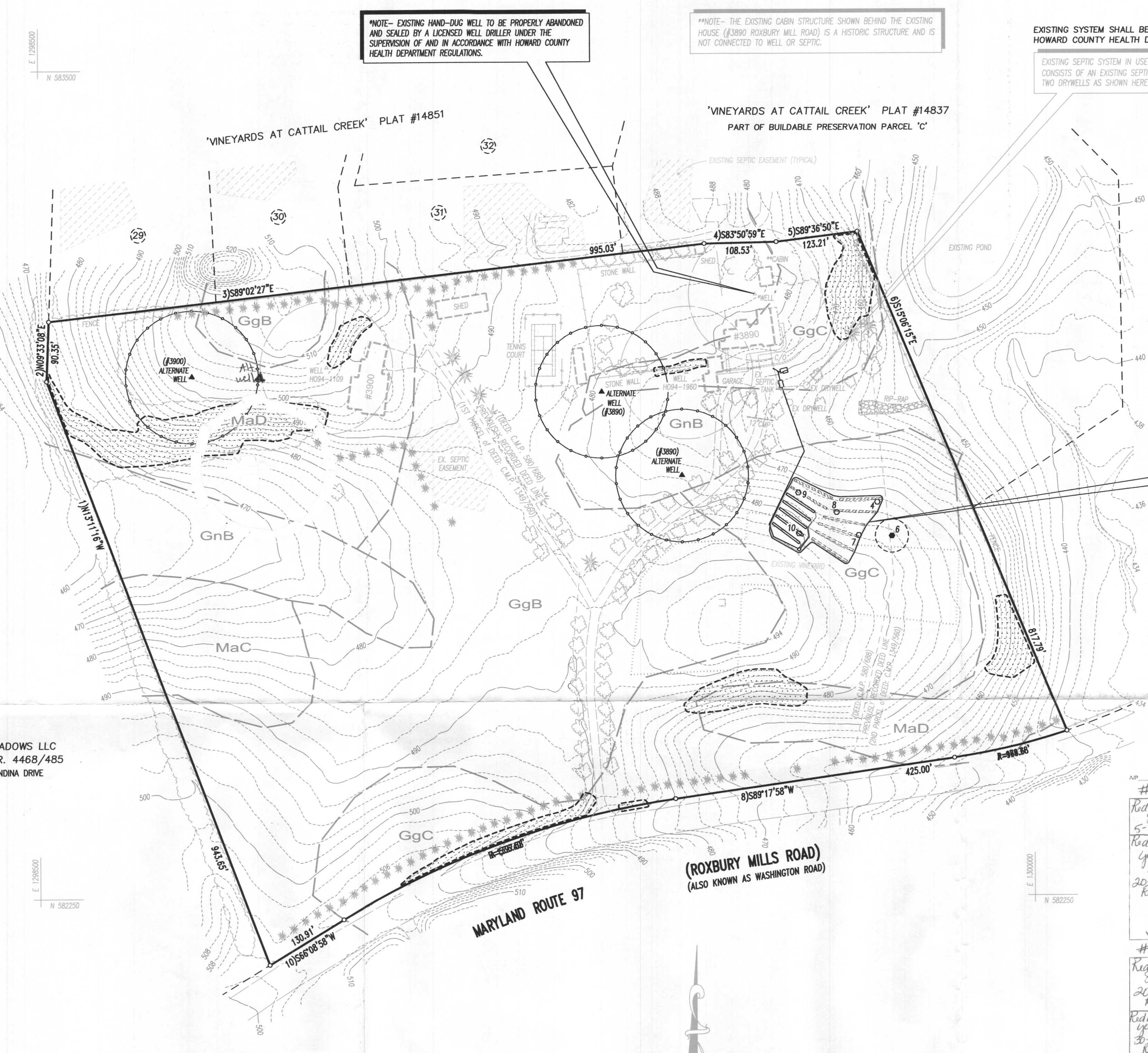
**PERCOLATION TEST RESULTS**

TESTS TAKEN: JUNE 5, 2014  
HOWARD COUNTY SANITARIAN: DANA BERNARD

Handwritten notes and diagrams for percolation tests #4 through #10. Includes a table of test results and a diagram showing test locations on the site plan.

DATE	TEST #	DEPTH	START	BREAK 1" ORGR	STOP 2" ORGR	TIME OF 2" INCH	PERM
6-5-14	#4	3'	10:53	10:56	10:59	3min	P
6-5-14	#6	11'	11:12				DID NOT PASS F
6-5-14	#7	4'	11:42	11:44	11:55	13min	P
6-5-14	#8	4'	13:04	13:04	13:35	31min	P
6-5-14	#9	4.5'	13:31	13:33	13:43	8min	P
6-5-14	#10	4'	1:07	1:09	1:13	4min	P

**PLAN VIEW**  
SCALE: 1"=100'



NOTE- EXISTING HAND-DOUG WELL TO BE PROPERLY ABANDONED AND SEALED BY A LICENSED WELL DRILLER UNDER THE SUPERVISION OF AND IN ACCORDANCE WITH HOWARD COUNTY HEALTH DEPARTMENT REGULATIONS.

NOTE- THE EXISTING CABIN STRUCTURE SHOWN BEHIND THE EXISTING HOUSE (#3890 ROXBURY MILLS ROAD) IS A HISTORIC STRUCTURE AND IS NOT CONNECTED TO WELL OR SEPTIC.

EXISTING SYSTEM SHALL BE ABANDONED IN ACCORDANCE WITH HOWARD COUNTY HEALTH DEPARTMENT REGULATIONS.  
EXISTING SEPTIC SYSTEM IN USE BY #3890 ROXBURY MILLS RD. (PTE 97) CONSISTS OF AN EXISTING SEPTIC TANK (UNKNOWN VOLUME) AND TWO DRYWELLS AS SHOWN HEREON.

PROPOSED EASEMENT AREA FOR PRIVATE SEWERAGE DISPOSAL FOR THE EXISTING 4-BEDROOM DWELLING KNOWN AS 'VILLA DE SPERANZA' LOCATED AT #3890 ROXBURY MILLS ROAD (MARYLAND ROUTE 97).

'VINEYARDS AT CATTAIL CREEK' PLAT #14837  
PART OF OPEN SPACE LOT 26

**SYMBOLS LEGEND**

- INDICATES PERCOLATION TEST LOCATION (SEE TEST RESULTS ON THIS SHEET)
- INDICATES WELL LOCATION
- INDICATES ALTERNATE WELL LOCATION (SEE PLAN VIEW ABOVE)
- INDICATES EXISTING GROUND CONTOUR LINE
- INDICATES AREAS OF GREATER THAN 25 PERCENT SLOPES
- THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQ.FT. AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
- INDICATES PRIVATE SEPTIC DRAIN LINE (EACH LINE 50 L.F.) FOR INITIAL SYSTEM (SEE SEWAGE FLOW CALCULATIONS ABOVE)
- INDICATES PRIVATE SEPTIC DRAIN LINE (EACH LINE 63 L.F.) FOR REPLACEMENT SYSTEMS (SEE SEWAGE FLOW CALCULATIONS ABOVE)