

Bureau of Environmental Health
 8930 Stanford Boulevard, Columbia, MD 21045
 Main: 410-313-2640 | Fax: 410-313-2648
 TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org
 Facebook: www.facebook.com/hocohealth

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

RECEIPT DATE: 7/30/15 **ONSITE SEWAGE DISPOSAL SYSTEM** P 556563
 APPROVAL DATE: 1/14/16 (Kaw) **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 1720 Woodstock Road
 SUBDIVISION: _____ LOT: _____ TAX ID: _____
 CONTRACTOR: Bill Ingram - Farm + Home EMAIL: _____
 CONTRACTOR ADDRESS: 901 Driver Rd, Monroeville PHONE: 410-442-2139

CONTRACTOR CERTIFIED FOR BAT INSTALLATION: MDE MANUFACTURER:

PROPERTY OWNER: Woodstock Land EMAIL: _____
 OWNER ADDRESS: 3230 Bethany Lane, Suite 1, Ellicott City, MD 21042 PHONE: _____

BAT UNIT MODEL: Norweco 600 PUMP SIZE: _____ PUMP TANK CAPACITY: _____

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: 7/31/15 DATE RECORDED: 8/5/15

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: _____

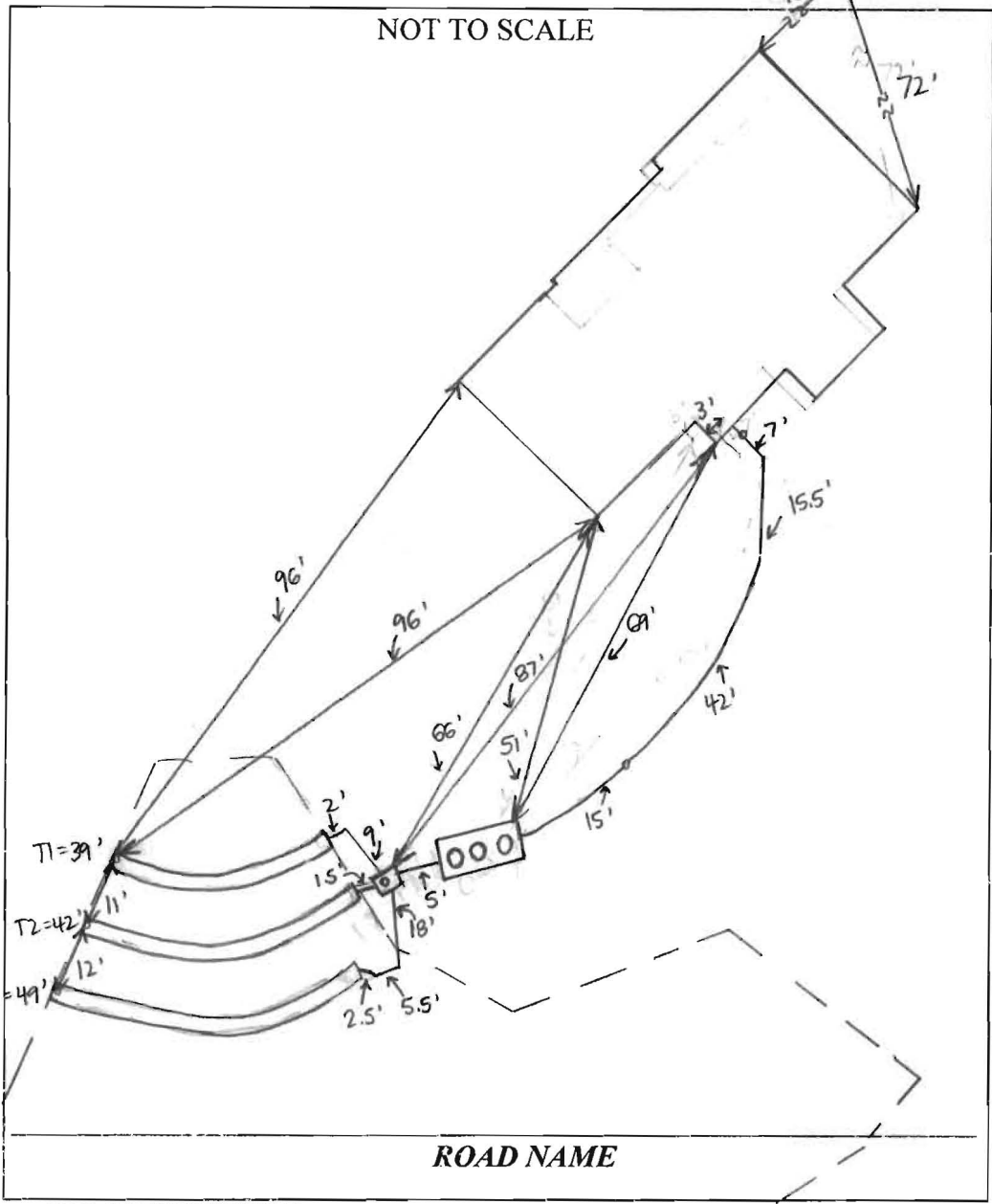
TRENCHES:	LINEAR FEET REQUIRED: <u>88' 125'</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3' 2'</u>	MAXIMUM BOTTOM DEPTH: <u>6.5</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10' 8'</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Install 2 x 44' long trenches. <u>3 x 42'</u>	

ISSUED BY: Hank Oswald ISSUE DATE: 8/5/15 EXPIRATION DATE: 8/5/16

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM
 ELECTRICAL PERMIT ISSUED E 1500 4103
- NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.
- NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.
 PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.
 CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	3.5'	6'
NUMBER OF TRENCHES		3
TOTAL LENGTH		130'
ABSORPTION AREA		390' + SIDEWALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	
MANUFACTURER	BACKRIVER/NOANECCO
CAPACITY	1300 GAL
SEAM LOC	IDP
TANK LID DEPTH	2-3'
BAFFLES	NO
BAFFLE FILTER	NO
MANHOLE LOC	FRONT, MID, REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	NO
DATE ON LID	7-27-15

PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	
CAPACITY	GAL
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

PRE-CONSTRUCTION:

8/24/15 Layout with Bill Ingram. Tank stake and all SDA stakes present. Some fill washed on to upper part of SDA, only 1-2". Shot contour from native ground. Northern edge of SDA has steep slope upwards - stay 2' inside that edge of the SDA with trenches. Laid out 3 x 42' trenches on contour. (SC)

INSTALLATION:

9/9/15 House connection made, pipe laid out to tank hole. Hole dug and tank next to hole - Bill hit rock while digging tank hole. Need cleanout between cleanout at house and tank. (SC) 9/10/15 Tank installed, bedded with #57 stone. Pipe connected from house, second cleanout installed. (SC) 9/14/15 D-box installed, T2 + T3 finished - T2 open and T3 open at ends. 3-3.5' to stone, 3' wide. Some rock at start of T2 but otherwise soil looks good. (SC) T1 finished + left open. D-box leveled with speed levelers. Need BAT startup certification. (SC)

FINAL INSPECTOR [Signature]

DATE OF APPROVAL 1/14/16

Back River Pre-Cast, LLC

PO BOX 329
Glyndon, MD 21071
Phone # 410-833-3394
Fax # 410-833-4116

Letter of Certification

This is to certify that the Norweco Singulair TNT 600 GPD Septic Tank installed at 1720 Woodstock Rd., Woodstock, MD 21163 on September 9, 2015 was installed according to the manufacture's specifications.

Installer: Bill Ingram

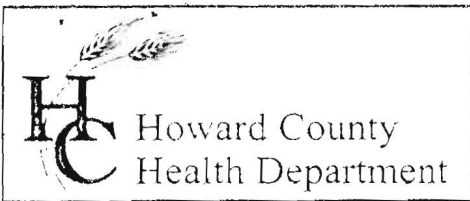
Property Owner: Woodstock Land, LLC

Permit #



MATTHEW GECKLE

Vice-President



3525 H Ellicott Mills Drive, Ellicott City, MD 21043
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

March 25, 2004

Mr. Ira L. Ayers
3913 Blue River Ct
Ellicott City, MD 21042

**REF: Ayres property
@ 1676 Woodstock Road, Woodstock, MD 21042**

Dear Mr. Ayers:

Percolation testing on the above property yesterday, March 24, did not result in providing an acceptable 10,000 sq-ft septic easement for the proposed 2nd parcel in the planned subdivision. Only excavations 226 and 228 were able to provide an acceptable percolation rate with adequate soil buffer to bedrock.

With the possibility of moving the BG & E electrical easement next to the property line and pronounced swale, two additional excavations were made (231 and 232). However, excavation 232 failed because of shallow rock at 3 ½ feet and could not be tested. It is unlikely that any further testing to the west, north-west of excavation 229 will result in any satisfactory results since it encroaches closer to the ridge on this property.

Mr. John Thomas, with Forty West Builders, decided it would not be necessary to perc test the proposed lot 1 septic easement with the failure of the 2nd parcel. Therefore, a written request must be made to our office requesting a refund on the percolation test fee for this lot. Please direct any correspondence to our office for a refund to the attention of Ms Mary Lou Briggs with the receipt number 520074-A.

Sincerely,



Frank Alfonso, RS

FA/fa

Enclosure

Cc

Forty West Builders
File



JOHN THOMAS

Director of
Construction

3230 Bethany Lane, Suite 1
Ellicott City, MD 21042
www.fortywest.com

voice. 410.418.8900
fax. 410.203.9984
jthomas@fortywest.com



a better way home



Bureau of Environmental Health
7178 Gateway Drive Columbia, MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Peter Beilenson, M.D., M.P.H., Health Officer

March 22, 2011

MEMORANDUM

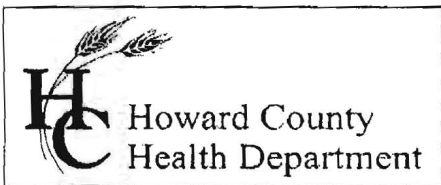
TO: Pat Costello
Forty West Builders
3230 Bethany Lane
Ellicott City, MD 21042

FROM: Brian Baker, R.S.
Howard County Health Department
Bureau of Environmental Health
Well and Septic Program

RE: 1720 Woodstock Road
Tax Map: 10 Grid: 18 Parcel: 124

The Howard County Health Department recommends issuance of the demolition permit for the above referenced property. There is no knowledge of any wells or septic systems on the property except for one trench with no septic tank.

Cc: File



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Dr. Peter Beilenson, M.D., M.P.H., Health Officer

DEMOLITION REQUEST FORM
 (Please fill in all blanks)

Information of Property to be Demolished:

S. Patrick Costello
 Current Owner's Name

1720 Woodstock RD 21163
 Property Address

Subdivision (if applicable)

Lot #

FLOYD SMITH
 All Prior Owners' Names (if requested or known)

10 124
 Tax Map Parcel # Tax ID #

OLD DILAPIDATED HOUSE
 Purpose/Reason for Demolition

REBUILD NEW HOUSE
 Future plans of property after demo (i.e. subdivision, parking lot, re-build new house. etc...)

If a subdivision, SDP# _____ Has the structure(s) been deemed unsafe by DILP ___ YES NO

UTILITY RECORDS:

Property currently connected to public water ___ YES NO

Property currently connected to public sewer ___ YES NO

Does the property currently have any wells and/or septic systems ___ YES NO

→ Explain: NO SEPTIC SYSTEM
NO WELL - JUST ACCESS TO A SPRING

*Note: Any wells and/or septic systems that are to remain may require an approved percolation certification plan under *Howard County Code Sec. 3.805*
 *Note: Any septic systems that are to be abandoned must be done by a septic contractor with documentation of the process.
 *Note: All abandoned wells are to be sealed by a well driller licensed by the Maryland State Board of Well Drillers *COMAR Sec 26.04.04.11 Abandonment Standards D (3)*

COMMENTS:

S. Patrick Costello
 Applicant's Name (please print)

410-418-8900
 Applicant's Phone #

pcostello@fortywest.com
 Applicant's Email

410-510-1572
 Applicant's Fax #

[Signature]
 Applicant's Signature

3/18/2011
 Date



**Circuit Court for Howard County
Land Records/License Department
Thomas B. Dorsey Bldg.
9250 Bendix Road
Columbia, MD 21045
410.313.5850**



www.mdcourts.gov/clerks/howard/index.html

Wayne A. Robey, Acting Clerk

STATE OF MARYLAND, HOWARD COUNTY, TO WIT:

**I HEREBY CERTIFY that the foregoing is a true copy of the original
OPERATION AND MAINTENANCE AGREEMENT recorded in Liber WAR
16363 folio 186 etc., among the Land Records of Howard County, Maryland.**

IN TESTIMONY WHEREOF, I hereto set my hand and
affix the seal of the Circuit Court for Howard County
this 5TH day of AUGUST 2015.

Clerk of the Circuit Court of Howard County, Maryland



LIBER 1 6 3 6 3 FOLIO 1 8 6

Bureau of Environmental Health 200224

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

**OPERATION AND MAINTENANCE AGREEMENT
FOR AN ON-SITE SEWAGE DISPOSAL SYSTEM
HAVING AN ADVANCED PRE-TREATMENT SYSTEM**

THIS AGREEMENT is made this 31st day of July 2015 among _____
Woodstock Land LLC, hereinafter collectively referred to as
"Owner", and the Howard County Health Department hereinafter referred to as the "County".

WHEREAS, Owner is the owner or contract owner of a parcel of land located at
1682 Woodstock Rd, in the 3rd Election District of Howard
County, Maryland, and the deed to same is recorded or shall be recorded among the Land
Records of Howard County, Maryland in Liber 15926 Folio 391.

WHEREAS, The Lot is suitable for the installation of a conventional on-site sewage disposal
system with an advanced pre-treatment system, utilizing best available technology to perform
nitrogen reduction, in accordance with the Code of Maryland Regulations 26.04.02.07, effective
January 1, 2013. The pre-treatment device being installed is Norweco Model 600.

NOW, THEREFORE, the parties hereto agree as follows:

- 20
410
MH
- 544
1C
- A. Owner hereby grants to the County the right to enter upon the Lot at any reasonable time for access to the system to make periodic inspections and the Owner agrees to provide any information and data in Owner's possession reasonably requested and needed by the County to develop accurate and thorough test results.
 - B. Owner acknowledges and agrees that neither the County nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.
 - C. The Owner will devote reasonable care and effort to the operation and maintenance of the system in perpetuity or until a public sewer connection is made so that a system malfunction is not the result of poor maintenance, faulty operation, or neglect.
 - D. The Owner agrees to enter into a contract reasonably acceptable to the Owner and the County with a private entity to operate and maintain on a regularly scheduled basis an approved advanced pre-treatment system. The owner shall supply a copy of the contract to the County when it is renewed or altered.
 - E. This agreement shall run with the land and upon Owner's taking title to the Lot shall bind the Owner, their heirs, successors, and assigns to the provisions of the agreement as long as the property is in existence and after installation of the system. Owner further agrees that they shall inform in writing any subsequent purchaser or lessee of the Lot that the system shall require

maintenance or other attention. Upon taking title to the Lot, the Owner agrees to cause this agreement to be recorded in the Land Records of Howard County and assure that it becomes part of the Deed for the subject property in order that prospective buyers may be aware of the special conditions affecting this property.

F. This agreement shall not be construed to limit any authority of the County to protect the public health, safety or comfort or to issue any other orders to take any other action which is now or may hereafter be within its authority.

G. This agreement may be voided at any time at the discretion of the County.

H. This agreement contains the entire agreement and understanding between the County and the Owner. There are no additional terms other than as contained in this agreement. This agreement may not be modified, except in writing signed by each of the parties or by their authorized representatives.

I. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.

J. Owner acknowledges and agrees that interior renovations to increase the number of bedrooms or an increase in living space shall not be permitted without approval from the County.

IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.

[Signature] 7/31/15
Howard County Health Department

by [Signature] 7/31/2015
Owner #1 Signature Date
Woodstock Land LLC
S. Patrick Costello
Owner #1 Print Name

Owner #2 Signature Date

Owner #2 Print Name

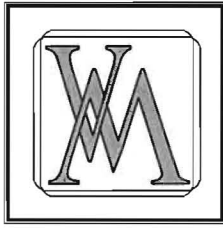
Buyer #1 Signature Date

Buyer #2 Signature Date

Buyer #1 Print Name

Buyer #2 Print Name

LR - Agreement 20.00
Recording Fee 20.00
Grantor/Grantee Name:
Woodstock Land
Reference/Control #: 224
LRI - Agreement 40.00
Surcharge 40.00
Subtotal: 60.00
Total: 60.00
08/04/2015 02:52:00
#483218 COM503 - C013-M
Howard Co
Columbia/CO05.03.04 -
Bethesda



**VANMAR
ASSOCIATES, INC.**

Engineers • Surveyors • Planners

310 South Main Street, P.O. Box 328, Mount Airy, Maryland 21771

(301) 829-2890
(301) 695-0600

(301) 831-5015

(410) 549-2751
Fax (301) 831-5603

March 9, 2015

Mr. Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
718 Columbia Gateway Drive
Columbia, MD 21046-2147

RE: 1720 Woodstock Road
Site Plan for BAT Installation

The following is a response to the February 25, 2015 comments.

1. *The BAT Plan submitted for the above referenced property contains an Ecopod. Recently, MDE has placed a moratorium on ECOPOD units being installed as Best Available Technology.*

Response 1: The ECOPOD BAT technology has been replaced with the NORWECO 600 which is adequate for a five bedroom home.

2. *Reduce last 5 feet of septic line before tank to 2 – 5 %.*

Response 2: The last 5 feet of septic line before the tank is now 5%.

3. *Add a "certification note" stating that the manufacturer certifies this unit is adequate for this particular design at 5 bedrooms.*

Response 3: The above certification note has been added to the plan as confirmed by NORWECO representative.

4. *Show a minimum 10 ft of spacing between all septic trenches.*

Response 4: The note "10' minimum" has been added to the spacing between the septic trenches.

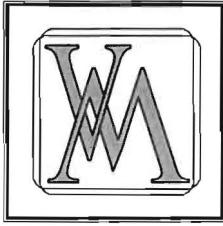
5. *Show invert coming out of Dist. Box and add elevations next to the connections within the profile*

Response 5: Invert, elevation and connections provided.

6. *Show 750 gallons of emergency storage in the BAT unit detail.*

Response: The BAT tank is gravity feed and does not require any emergency storage for the BAT unit. Emergency storage may only be required when you have a pump as part of the process and would have an additional tank for the pump.

7. *In addition to the trench grade data listed, also list grades over BAT Unit and distribution tank*



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including in/out invert elevations.

Response: Grades are provided.

8. Add the following notes to the plan:

- *The lots shown hereon comply with the minimum lot area and ownership width as required by the Maryland Department of the Environment.*
 - *"Septic Symbol (a box with diagonal lines crossing through it)" These areas designate a private sewage easement of at least 10,000 square feet as required by the MD Dept. of the Environment for individual sewage disposal improvements of any nature in this area are restricted until public sewage is available. These easements shall become null and void upon connection to a public sewage system. The county health officer shall have the authority to grant variances for encroachments unto the private sewage easement. Recordation of a modified sewage easement shall not be necessary.*
 - *Existing wells, septic systems, and sewage disposal areas with 100' of the property and those wells within 200' down gradient of existing or proposed septic systems or sewage disposal areas have been shown.*
-

Response: The above notes have been added to the plan.

9. Add legend to the plan for the following items: Perc Test Hole Locations, Well Location, Soil Type Lines and Soil types.

Response: The above information has been added to the Plan Legend.

Thank you,

VANMAR ASSOCIATES


Ronald E. Thomson, P.E.

From: Oswald, Hank <hoswald@howardcountymd.gov>
Sent: Thursday, February 26, 2015 3:59 PM
To: ron@vanmar.com
Subject: BAT Plan_1720 Woodstock Road
Attachments: Ecopod Moratorium memo_2 20 15 (2).pdf

Mr. Thompson:

The following review comments apply to the BAT Plan for 1720 Woodstock Road.

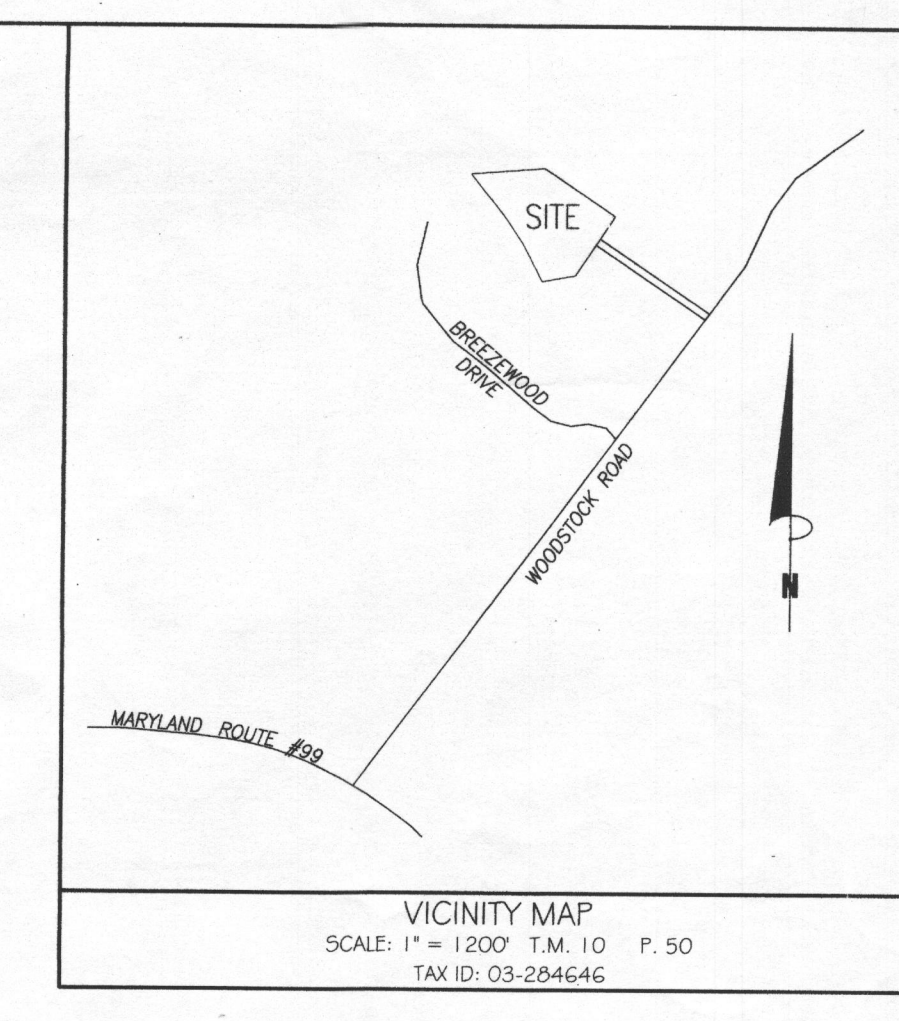
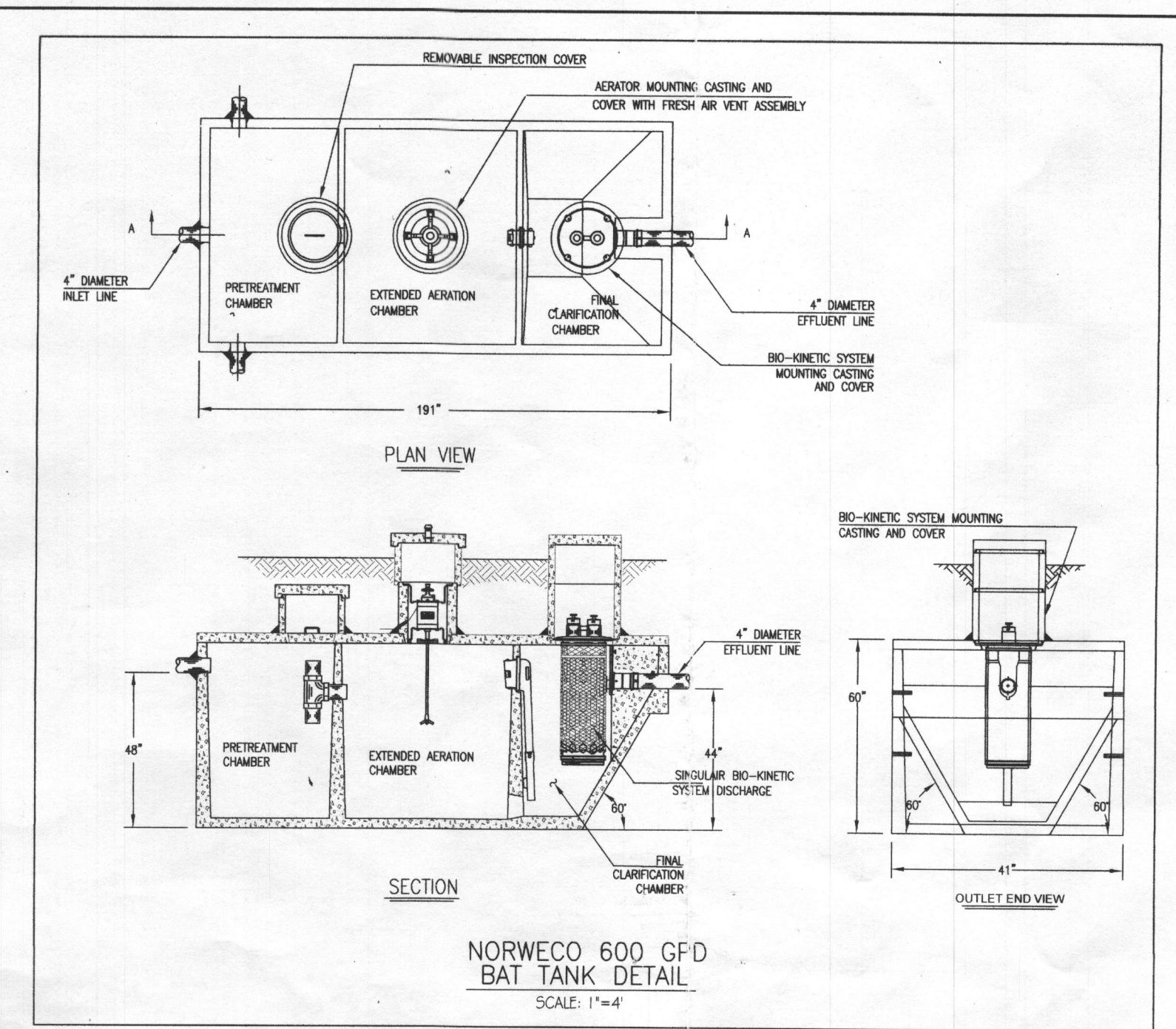
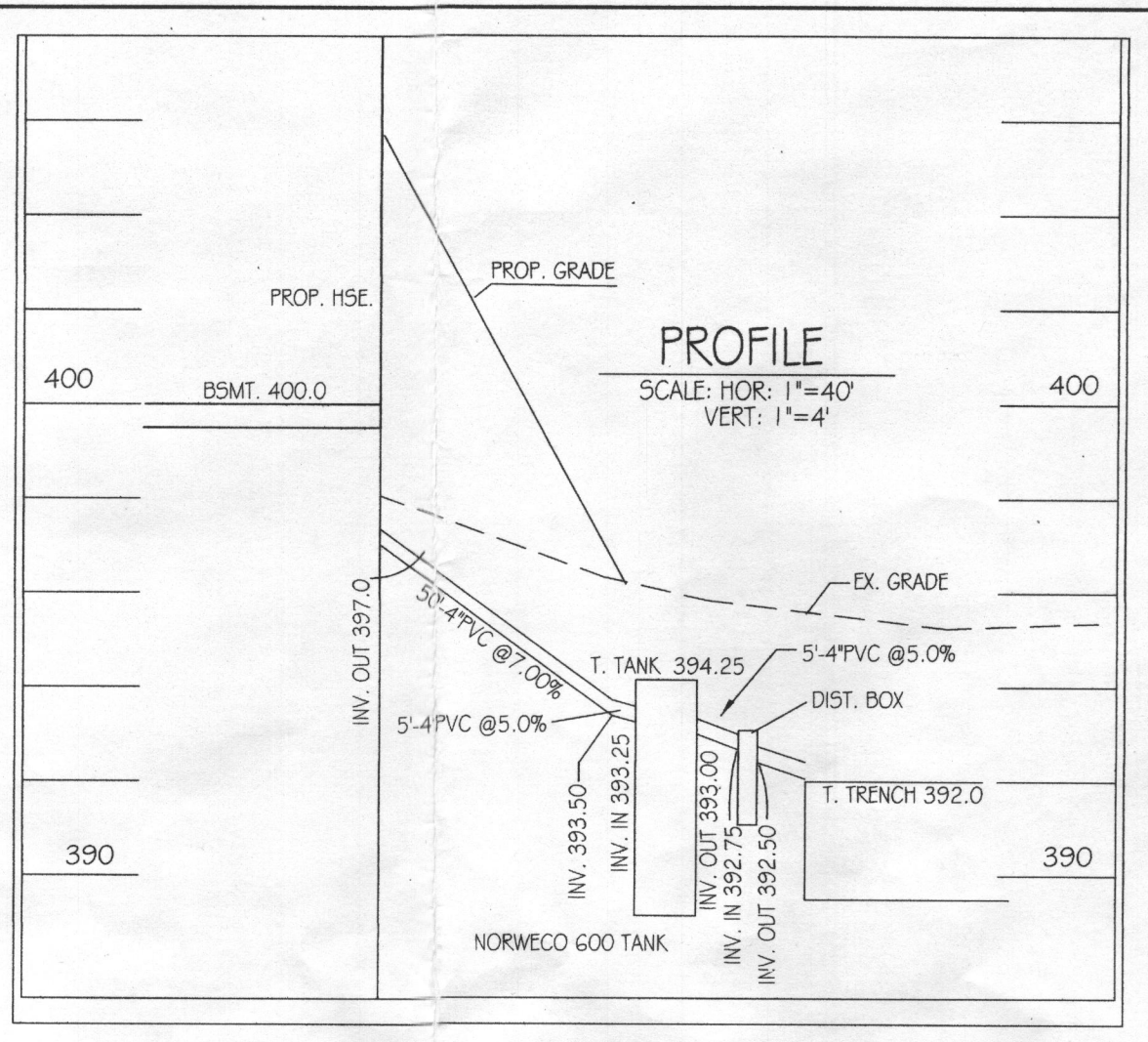
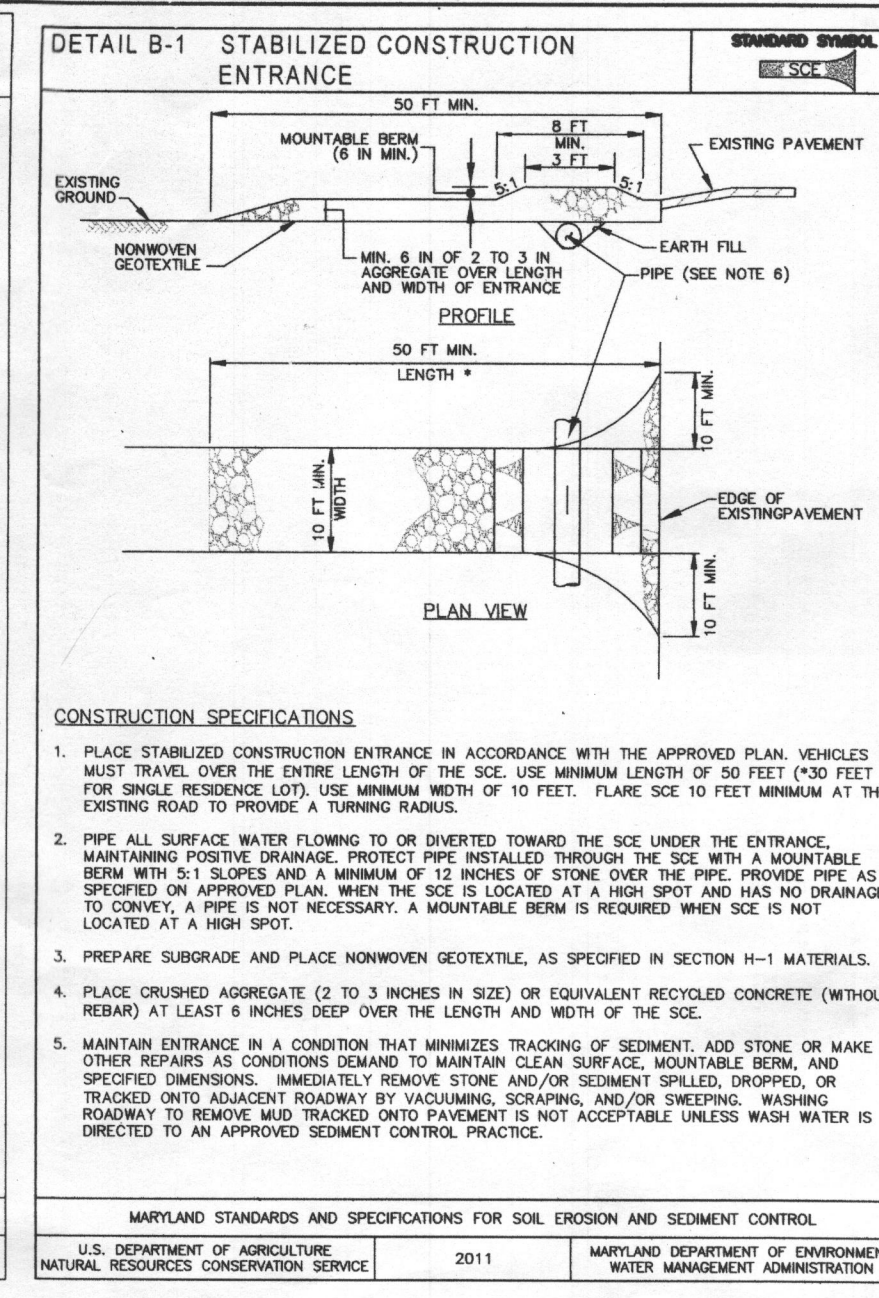
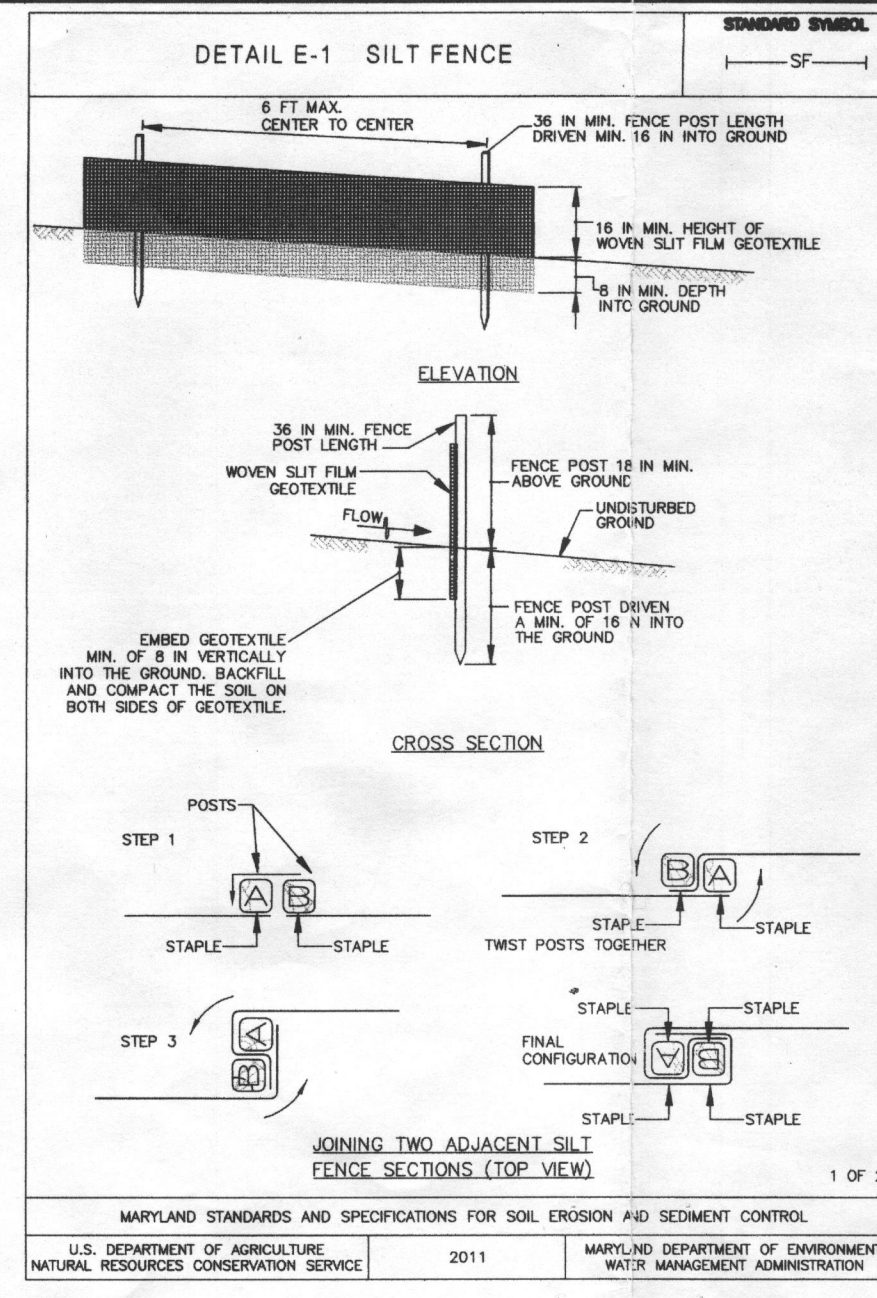
- 1.) The BAT Plan submitted for the above referenced property contains an Ecopod. Recently, MDE has placed a moratorium on ECOPOD units being installed as Best Available Technology. Please see the attached memo regarding this situation. Please note the purchase date and installation date requirements in the memo.
- 2.) Reduce last 5 feet of septic line before tank to 2 – 5 %.
- 3.) Add a “certification note” stating that the manufacturer certifies this unit is adequate for this particular design at 5 bedrooms.
- 4.) Show a minimum 10 ft of spacing between all septic trenches.
- 5.) Show invert coming out of Dist. Box and add elevations next to the connections within the profile.
- 6.) Show 750 gallons of emergency storage in the BAT unit detail.
- 7.) In addition to the trench grade data listed, also list grades over BAT Unit and distribution tank including in/out invert elevations.
- 8.) Add the following notes to the plan:
 - The lots shown hereon comply with the minimum lot area and ownership width as required by the Maryland Department of the Environment.
 - “Septic Symbol (a box with diagonal lines crossing through it)” These areas designate a private sewage easement of at least 10,000 square feet as required by the MD Dept. of the Environment for individual sewage disposal improvements of any nature in this area are restricted until public sewage is available. These easements shall become null and void upon connection to a public sewage system. The county health officer shall have the authority to grant variances for encroachments unto the private sewage easement. Recordation of a modified sewage easement shall not be necessary.
 - Existing wells, septic systems, and sewage disposal areas with 100’ of the property and those wells within 200’ down gradient of existing or proposed septic systems or sewage disposal areas have been shown.
- 9.) Add legend to the plan for the following items: Perc Test Hole Locations, Well Location, Soil Type Lines and Soil types.

Please revise the BAT plan and submit for review. Should you have any questions, please don’t hesitate to ask.

Best Regards,

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
410.313.1786



- GENERAL NOTES:
- TOPOGRAPHY & PLANIMETRIC FEATURES SHOWN HEREON TAKEN FROM COPYRIGHTED GIS DATA FROM HOWARD COUNTY, SUPPLEMENTED WITH FIELD LOCATIONS BY VANMAR ASSOCIATES, INC. VERTICAL DATUM IS NAVD83.
 - THE EXISTING WELL H0294-3997 SHOWN ON THIS PLAN HAS BEEN FIELD LOCATED BY VANMAR ASSOCIATES OR TAKEN FROM AVAILABLE RECORDS AND ACCURATELY SHOWN.
 - ZONING DISTRICT: RC-DEO
 - LIMIT OF DISTURBANCE (LOD) = 20,442 SQ. FT. TOTAL VOLUME EXCAVATION/FILL = 500 SQ. FT.
 - THERE ARE NO STREAMS, PONDS, FLOODPLAINS OR WETLANDS ON THIS LOT.
 - STORM WATER MANAGEMENT FOR THIS LOT IS PROVIDED BY USING DRAINWELLS TO TREAT ROOFTOP RUNOFF. DRAINWELLS WILL BE OVERSIZED TO COMPENSATE FOR VOLUME ASSOCIATED WITH THE PROPOSED DRIVEWAY.
 - THE LOT SHOWN HEREON COMPLY WITH THE MINIMUM LOT AREA AND OWNERSHIP WIDTH AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
 - EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
 - PROPOSED DRIVEWAY SHALL BE MIN. 12' WIDTH, 4" GRADED AGGREGATE BASE & 2" ASPHALT SURFACE, AT MAX. 15% GRADE.

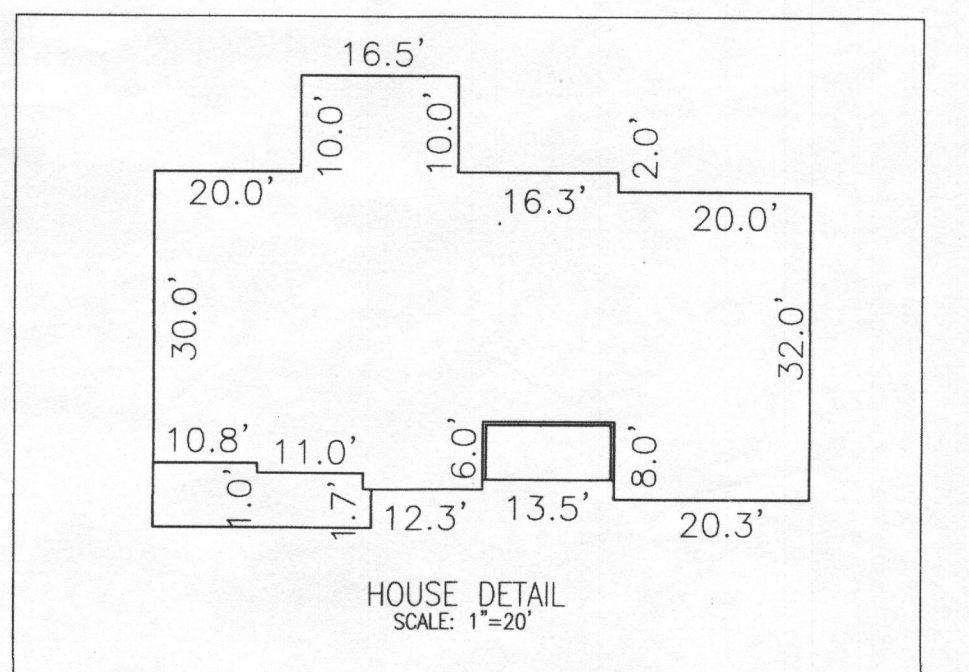
MANUFACTURER CERTIFIES THE NORWECO 600 FOR A 5 BEDROOM HOME

- 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.
 - MAXIMUM COVER OVER THE BAT PER MANUFACTURER'S SPECIFICATION IS 3 FEET.
 - THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON MANUFACTURER'S SPECIFICATIONS.
 - THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
 - THE BAT SHALL BE OPERATED 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 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 INSTALLATION.

SEPTIC SYSTEM TRENCH DESIGN:

INITIAL NUMBER OF BEDROOMS = 5
 APPLICATION RATE = 1.2 GPD / sq. ft.
 DESIGN FLOW: 150 GPD X 5 BEDROOMS = 750 GPD
 750 GPD / 1.2 GPD/sq. ft. = 625 sq. ft.
 625 sq. ft. / 3 ft. WIDE TRENCH = 208 LF TRENCH
 208 LF TRENCH X 0.42 REDUCTION CREDIT = 88 LF TRENCH
 BAT TANK EX. GRD=396.0 - INV. IN=393.25 - INV. OUT=393.00
 DIST. BOX EX. GRD=395.7 - INV. IN=392.75 - INV. OUT=392.50
 TRENCH 1 (T1) EX. GRD=395.0 - INV. TRENCH=392.0 - B. TRENCH=388.5
 TRENCH 1 (T2) EX. GRD=393.0 - INV. TRENCH=390.0 - B. TRENCH=386.5

1st REPLACEMENT
 APPLICATION RATE = 1.2 GPD / sq. ft.
 DESIGN FLOW: 150 GPD X 5 BEDROOMS = 750 GPD
 750 GPD / 1.2 GPD/sq. ft. = 625 sq. ft.
 625 sq. ft. / 3 ft. WIDE TRENCH = 208 LF TRENCH
 208 LF TRENCH X 0.42 REDUCTION CREDIT = 88 LF TRENCH



OWNER/DEVELOPER:
 WOODSTOCK LAND, LLC
 3230 BETHANY LANE, SUITE #1
 EUGENE CITY MD 21042

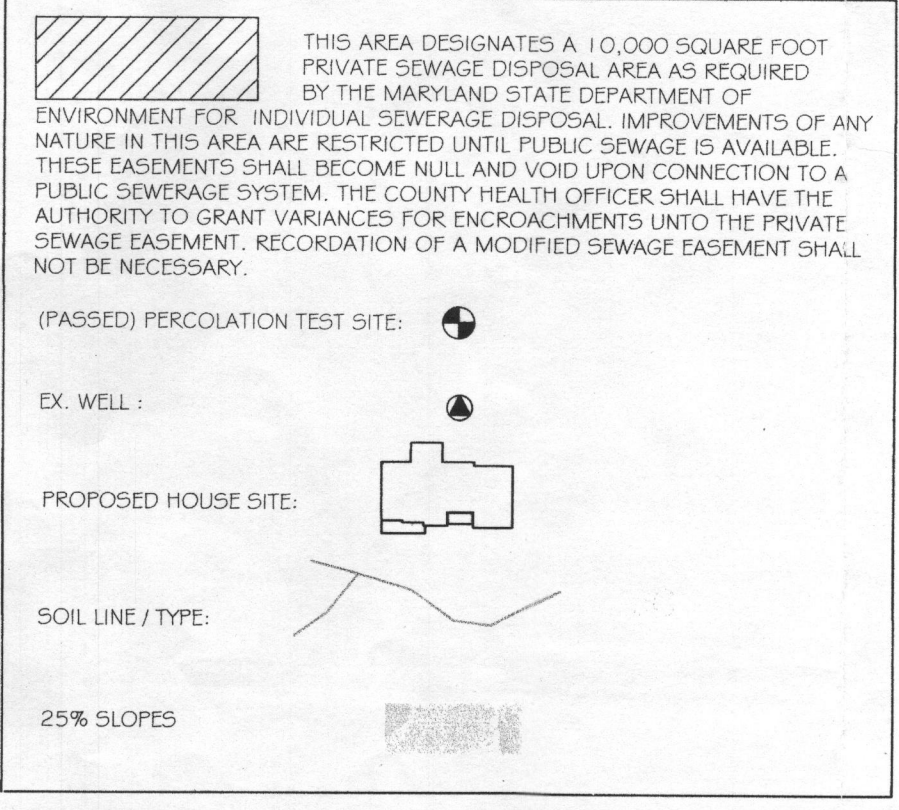
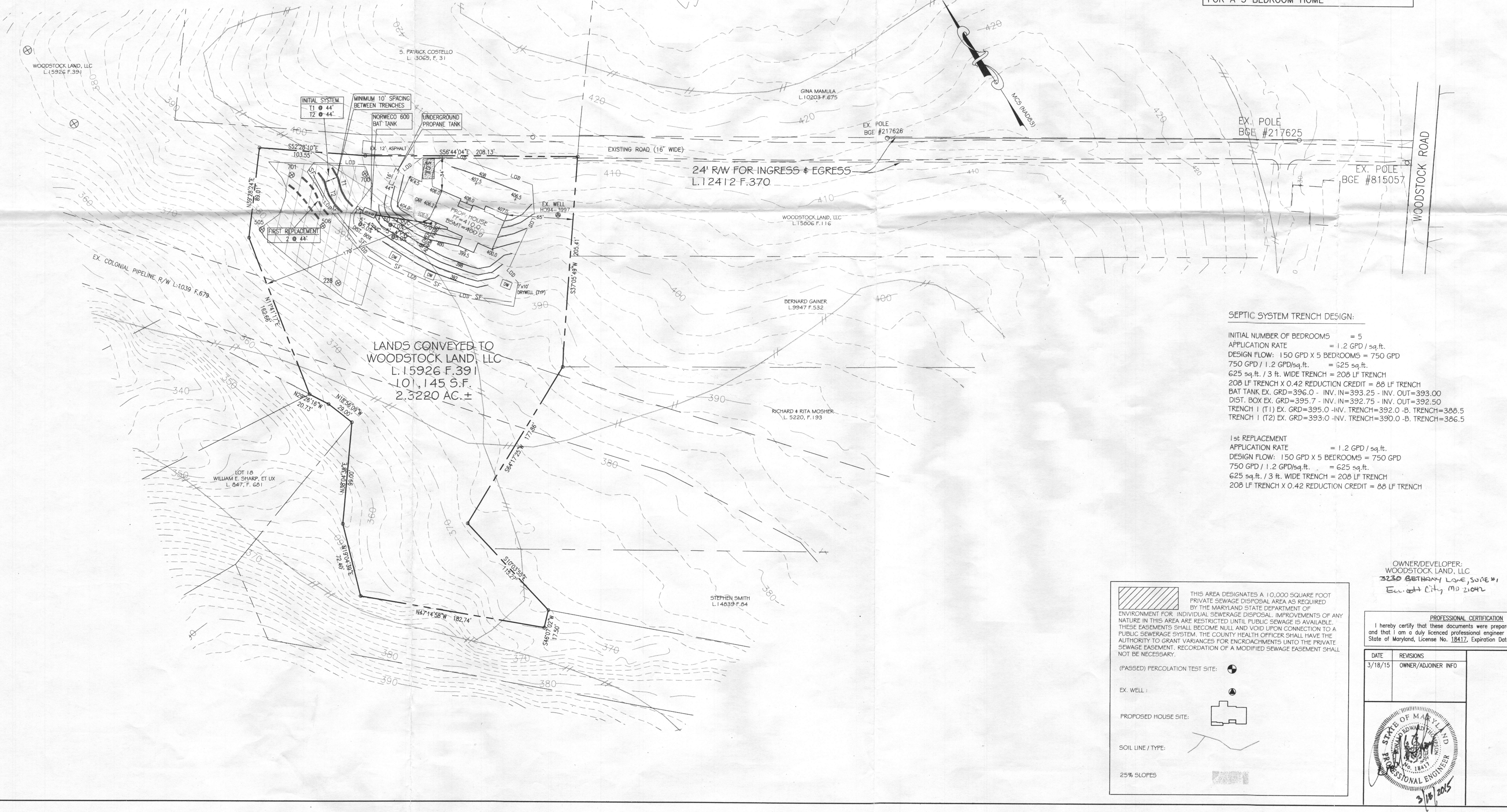
PROFESSIONAL CERTIFICATION
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 18417, Expiration Date: 9-18-15.

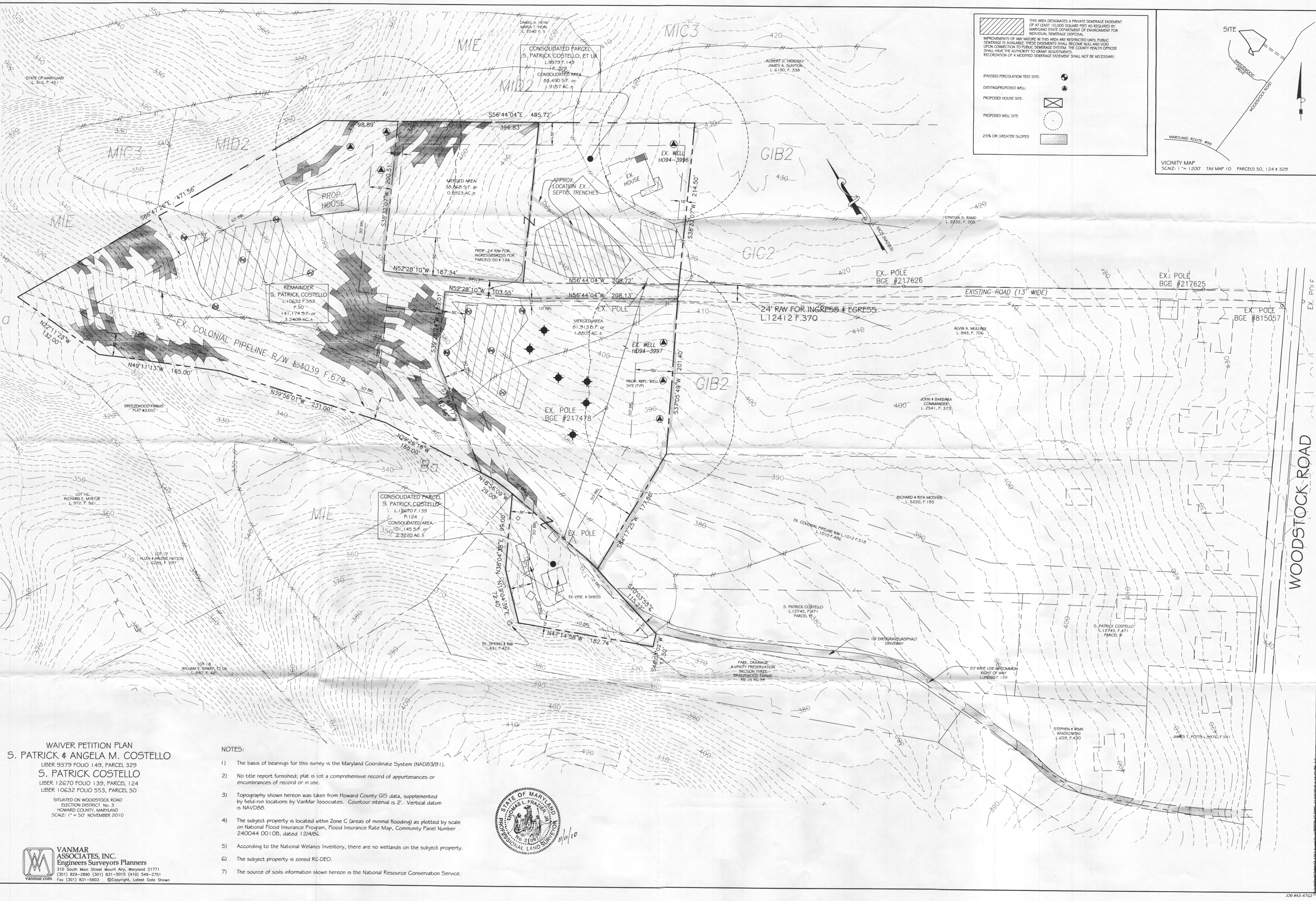
DATE	REVISIONS
3/18/15	OWNER/ADJOINER INFO



PLOT PLAN
 SITE PLAN FOR BAT TECHNOLOGY
 LANDS CONVEYED TO
 WOODSTOCK LAND, LLC
 L. 15926 F. 391
 1720 WOODSTOCK ROAD
 THIRD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: 1"=50' JANUARY 2015

VANMAR ASSOCIATES, INC.
 Engineers Surveyors Planners
 310 South Main Street Mount Airy, Maryland 21771
 (301) 829-2890 (301) 831-5015 (410) 549-2751
 Fax (301) 831-5603 ©Copyright, Latest Date Shown





THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL.

IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO PUBLIC SEWERAGE SYSTEMS. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.

(PASED) PERCOLATION TEST SITE:

EXISTING PROPOSED WELL:

PROPOSED HOUSE SITE:

PROPOSED WELL SITE:

25% OR GREATER SLOPES:

VICINITY MAP
SCALE: 1" = 1200' TAX MAP 10 PARCELS 50, 124 & 329

WAIVER PETITION PLAN
S. PATRICK & ANGELA M. COSTELLO
LIBER 9379 FOLIO 149, PARCEL 329
S. PATRICK COSTELLO
LIBER 12670 FOLIO 139, PARCEL 124
LIBER 10632 FOLIO 553, PARCEL 50

SITUATED ON WOODSTOCK ROAD
ELECTION DISTRICT No. 3
HOWARD COUNTY, MARYLAND
SCALE: 1" = 50' NOVEMBER 2010

- NOTES:
- 1) The basis of bearings for this survey is the Maryland Coordinate System (NAD83/91).
 - 2) No title report furnished; plat is not a comprehensive record of appurtenances or encumbrances of record or in use.
 - 3) Topography shown hereon was taken from Howard County GIS data, supplemented by field-run locations by VanMar Associates. Contour interval is 2'. Vertical datum is NAVD83.
 - 4) The subject property is located within Zone C (areas of minimal flooding) as plotted by scale on National Flood Insurance Program, Flood Insurance Rate Map, Community Panel Number 240044 0010B, dated 12/4/05.
 - 5) According to the National Wetlands Inventory, there are no wetlands on the subject property.
 - 6) The subject property is zoned RC-DEO.
 - 7) The source of soils information shown hereon is the National Resource Conservation Service.



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WOODSTOCK ROAD