



Howard County
Health Department

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: 10/26/14

ONSITE SEWAGE DISPOSAL SYSTEM

P 555279-A

INSTALLATION

APPROVAL DATE: 2/27/15 *Krue*

**PERMIT
CONSTRUCTION**

A _____

PROPERTY ADDRESS: 14908 Victory Lane

SUBDIVISION: Meriwether Farm

LOT: 10 TAX ID: _____

CONTRACTOR: Fogle's Septic Clean Inc.

EMAIL: kevin@foglesinc.com

CONTRACTOR ADDRESS: 580 Obrecht Road, Sykesville, MD 21784

PHONE: 410-795-5670

PROPERTY OWNER: Toll Brothers

EMAIL: _____

OWNER ADDRESS: 14881 Meriwether Drive, Glenelg, MD 21737

PHONE: 301-418-1923

BAT UNIT MODEL: ECOPOD E60NCA

PUMP SIZE: _____

PUMP TANK CAPACITY: 600GPD

DISTRIBUTION SYSTEM: GRAVITY ☒

LOW PRESSURE DOSED ☐

NUMBER OF BEDROOMS: 0?

TRENCHES:	LINEAR FEET REQUIRED:	<u>SEE BAT PLAN</u>	INLET DEPTH:	<u>SEE BAT PLAN</u>
	TRENCH WIDTH:	<u>SEE BAT PLAN</u>	MAXIMUM BOTTOM DEPTH:	<u>SEE BAT PLAN</u>
	MINIMUM SPACE BETWEEN TRENCHES:	<u>SEE BAT PLAN</u>	EFFECTIVE AREA BEGINNING DEPTH:	<u>SEE BAT PLAN</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 BAT system per plan.			

ISSUED BY: Hank Oswald

ISSUE DATE: 12/2/14

EXPIRATION DATE: 12/2/15

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 DOWNGRAIENT 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

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

See separate sheet
for as-built.

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH INLET BOTTOM

3' 4' 6'

NUMBER OF TRENCHES 3

TOTAL LENGTH 221'

ABSORPTION AREA 663'

DISTRIBUTION BOX LEVEL YES

DISTRIBUTION BOX BAFFLE YES

DISTRIBUTION BOX PORT YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL YES

MANUFACTURER ECOPOD

CAPACITY 660 GAL

SEAM LOC TOP

TANK LID DEPTH 2'

BAFFLES YES

BAFFLE FILTER NO

MANHOLE LOC FRONT + REAR

6" PORT LOC MIDDLE

WATERTIGHT TEST NO

SLOTTED NO

DATE ON LID NONE

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

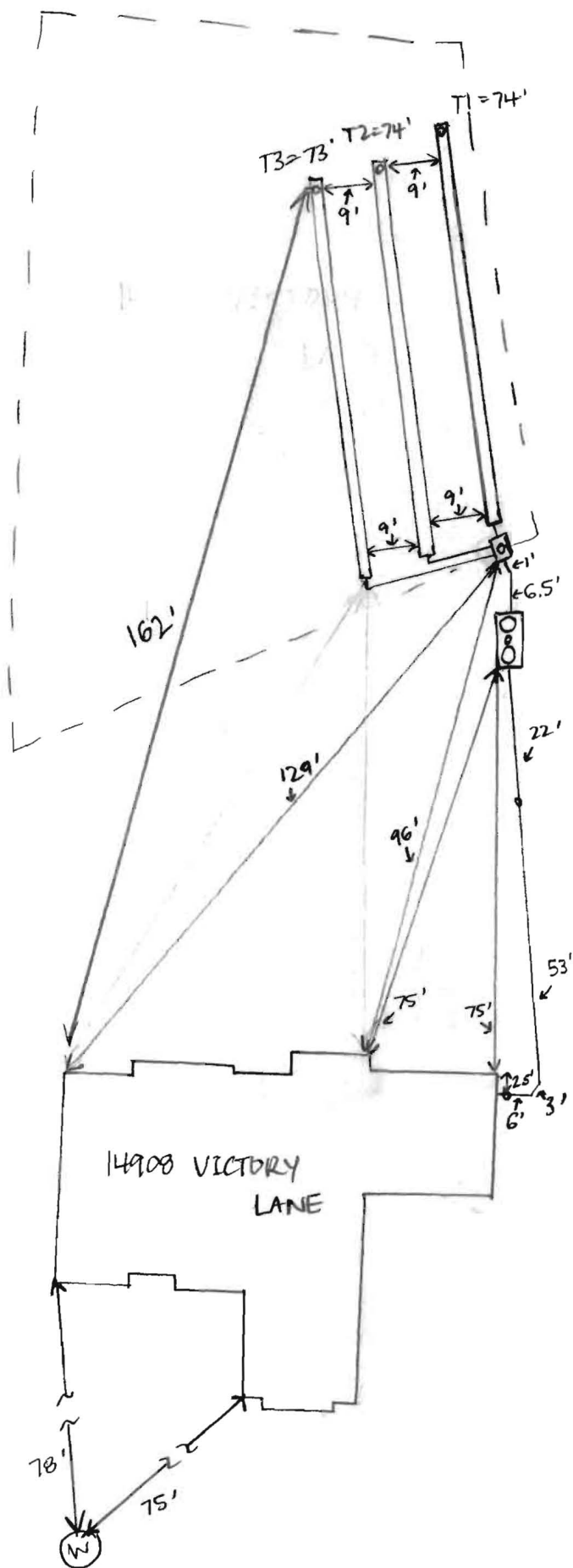
PRE-CONSTRUCTION:

1/14/15 BAT unit staked. SRT staked per plan. Contour shot.
OK to install trenches per design. Call for info (pwr)

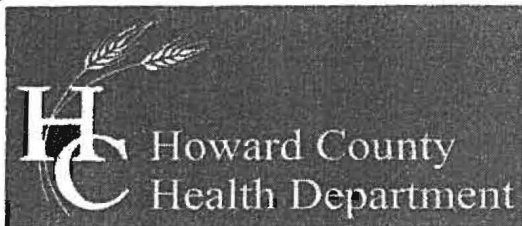
INSTALLATION: 1/15/15 Tank set and pipe to tank laid. No house connection made. Jake
was going to put stone about halfway along pipe leading to tank to maintain fall. (SC)

1/16/15 Trenches dug, left uncovered at ends. Adjusted speed levelers with Jake during
inspection. SCH 40 PVC used. House connection made. Needs BAT startup certification. (SC)

FINAL INSPECTOR [Signature] DATE OF APPROVAL 2/27/15



DRAWN: R.C.K.



Bureau of Environmental Health

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Twitter: HowardCoHealthDep

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 ^(19th NOVEMBER 2014) ~~27~~ day of ~~October~~, among Darren and Linda Sanborn, 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 14908 Victory Lane, Gleney 21737 in the ___ 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 ___ Folio ___. HOOT: 600 BNR

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.

NOW, THEREFORE, the parties hereto agree as follows:

- 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.


Owner
10/27/14
Date


Owner
10/27/14
Date


Beth Rifon 11/19/2014
Howard County Health Department

MEMBER N. C. B. V. A.

MEMBER P. C. B. V. A.

Babylon

V A U L T
S I N C E 1 9 3 0

Burial Vaults - Septic Tanks

925 WAKEFIELD VALLEY ROAD
NEW WINDSOR, MD 21776

PHONE:
410-848-0393
FAX:
410-848-3551

Five Year Initial Service Policy
On Site Wastewater Treatment System

Brand Name: <u>ECO ROD</u>	Model Number: <u>E 60N</u>
Purchase Date: <u>2/13/15</u>	Serial Number: <u>E 60N 02240CA</u>

INITIAL POLICY:

A five (5) year service policy shall be furnished to the user by the Installer.

This policy is included in the original purchase price and shall provide the following:

1. An inspection/service call every six months which includes inspections, adjustment and servicing of the mechanical and electrical component parts as necessary to ensure proper function for the first year. And once a year thereafter.
2. An effluent quality inspection every six months consisting of a visual check for color, turbidity, scum overflow, and an examination for odors for the first year. And then once a year thereafter.
3. A sample shall be pulled from the aeration tank once a year as described in the "Solids Removal" Section to determine if there is an excess of solids in the treatment plant. If the test results determine if there is an excess of solids in the treatment plant. If the test results determine a need for solids removal, the user will bear the cost and responsibility for doing so.
4. If any improper operation is observed which cannot be corrected at that time, the user shall be notified immediately in writing of the conditions and the estimated date of correction.

Violations of Warranty including shutting off the electric current to the system for more than 24 hours, disconnecting the alarm system restricting ventilation to the aerator, overloading the system above its rated capacity, or introducing excessive amounts of harmful matter into the system, or any other form of unusual abuse.

THIS POLICY DOES NOT INCLUDE PUMPING
SLUDGE FROM UNIT IF NECESSARY

PERMITTING AUTHORITY:

Howard County

SYSTEM OWNER:

Linda + Darren Sanborn

INSTALLATION LOCATION:

14908 Victory Lane
Glenelgh MD 21737

DISTRIBUTOR:

Babylon Vault Co

INSTALLER:

Fogles Septic
0 Brecht Rd
Sykesville MD 21784

SERVICE COMPANY:

Same as Above
Service Operators License Number: Steven R Koontz

I agree to abide by the service policy as stated above: _____

Witness: _____

e3 Environmental LLC

302-725-0700 www.e3onsite.com

ECOPOD-N Completion Statement

Installation Information

Owners Name	<u>Linda & Darren Sanborn</u>	# of Bedrooms / GPD	<u>600</u>
Street	<u>14908 Victory LN</u>	Repair	<input type="checkbox"/>
City	<u>Glenelgh</u>	New Construction	<input checked="" type="checkbox"/>
State	<u>MD</u>		
Zip	<u>21737</u>		

Installation Company

Company	<u>Fogles</u>	Installed Date	<u>2/13/15</u>
Certified Installer	<u>Gaby Poole</u>	Startup Date	<u>2/13/15</u>
Street	<u>Obrecht Rd</u>		
City	<u>Sykesville</u>		
State	<u>MD</u>		
Zip	<u>21784</u>		

ECOPOD-N

Model #	Serial #
E50 <input type="checkbox"/>	
E60 <input checked="" type="checkbox"/>	<u>E60N 02240 CA</u>
E75 <input type="checkbox"/>	
E100 <input type="checkbox"/>	
E150 <input type="checkbox"/>	

Blower Voltage	<u>Good</u>
Blower Running Amps	<u>Good</u>
Inches of water over media with blower turned off	<u>2 inches</u>
Vent Installed	<u>yes</u>
Tanks and Risers Water tight	<u>yes</u>
Alarm Functional	<u>yes</u>

I hereby certify that the ECOPOD-N wastewater treatment system has been installed and started up in accordance with the construction permit and is in compliance with the manufacturers recommendations

Company	<u>Babylon Vault Co</u>	Date	<u>2/13/15</u>
Signature	<u>Steven R Koontz</u>		
Printed Name	<u>STEVEN R KOONTZ</u>		

Oswald, Hank

From: Jason Mudd [jmudd@tollbrothersinc.com]
Sent: Thursday, July 03, 2014 10:34 AM
To: Oswald, Hank
Subject: RE: B14002028

I sent the floor plans and it's a 5 bed home so we are revising the bat to accommodate. I will send over as soon as I receive that. Thanks Hank have a good weekend!

-----Original Message-----

From: Oswald, Hank [hoswald@howardcountymd.gov]
Sent: Thursday, July 03, 2014 10:30 AM Eastern Standard Time
To: Jason Mudd
Subject: RE: B14002028

You are welcome. I believe we are still waiting on revised floor plans for B14002029.

From: Jason Mudd [mailto:jmudd@tollbrothersinc.com]
Sent: Thursday, July 03, 2014 10:03 AM
To: Oswald, Hank
Subject: RE: B14002028

Thank you sir!

-----Original Message-----

From: Oswald, Hank [hoswald@howardcountymd.gov]
Sent: Thursday, July 03, 2014 10:02 AM Eastern Standard Time
To: Jason Mudd
Subject: RE: B14002028

Mr. Mudd:

B14002028 has been approved by the Health Department.

Respectfully,

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Well & Septic Program
8930 Stanford BLVD
Columbia, MD 21045
410-313-1786

Oswald, Hank

From: Oswald, Hank
Sent: Monday, June 30, 2014 2:51 PM
To: 'Jason Mudd'
Subject: RE: B14002029

Jason:

According to the floor plans, it appears that the home has 5 bedrooms counting the princess suite. At this point, you may either upgrade the BAT system to accommodate for the 5th bedroom or draw the floor plan to show only 4 bedrooms.

Please contact me with any questions.

Respectfully,

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Well & Septic Program
8930 Stanford BLVD
Columbia, MD 21045
410-313-1786
410-313-2648 (Fax)

From: Jason Mudd [<mailto:jmudd@tollbrothersinc.com>]
Sent: Monday, June 30, 2014 10:18 AM
To: Oswald, Hank
Subject: RE: B14002029

Hank, thanks for the reply, here are the bsmt, first, and second floor plans for the above mentioned lot. Thanks

Jason Mudd
Construction Manager
Cattail Overlook
410-489-7408



From: Oswald, Hank [<mailto:hoswald@howardcountymd.gov>]
Sent: Monday, June 30, 2014 9:03 AM
To: Jason Mudd
Subject: B14002029

Mr. Mudd:

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/15.

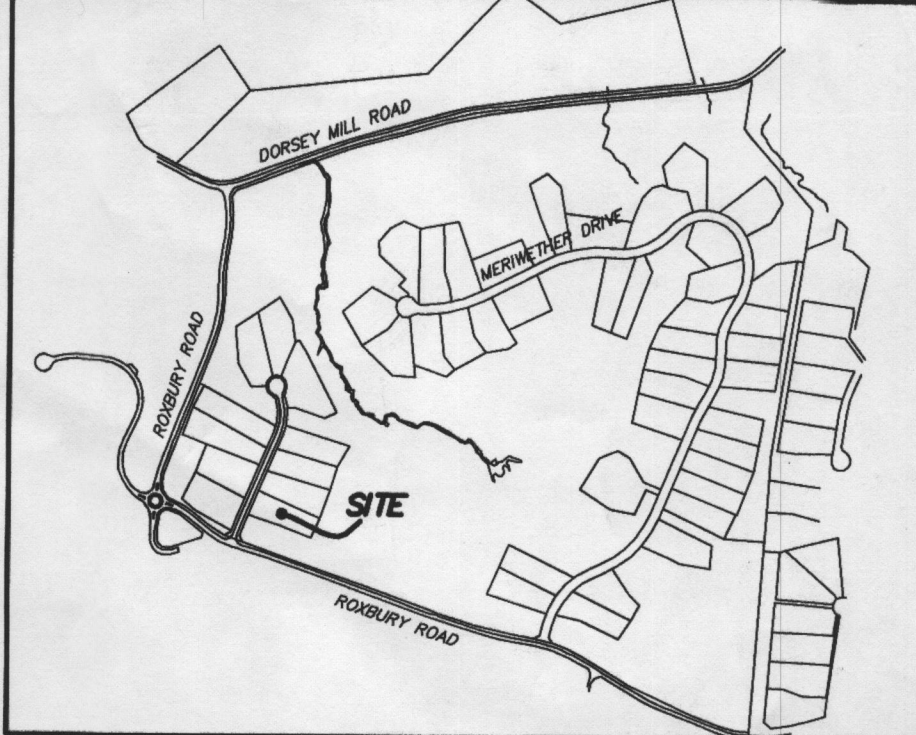
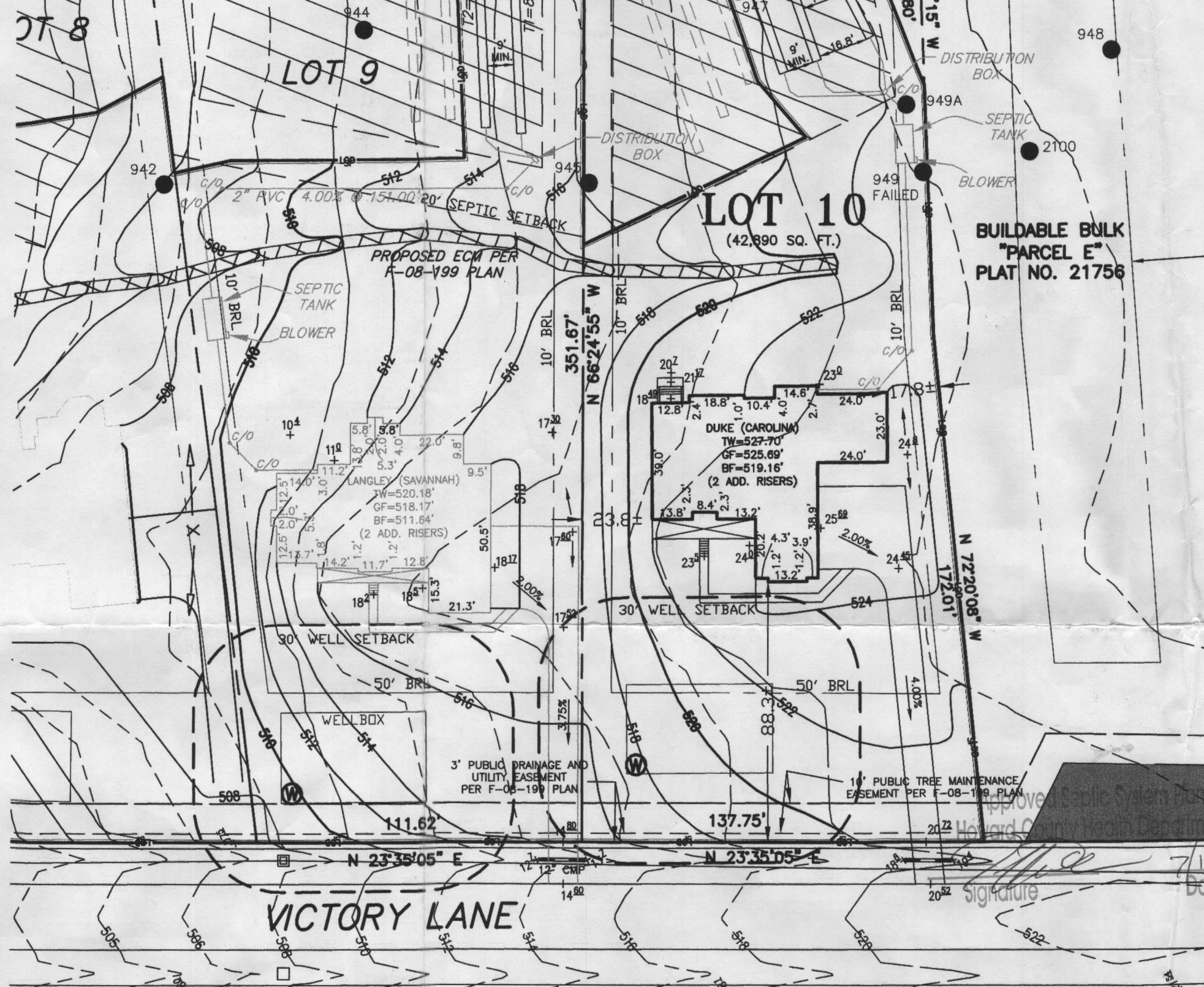
HOUSE OPTIONS:

TYPE: LANGLEY (WILLIAMSBURG)
THREE CAR SIDE ENTRY GARAGE
DAYLIGHT BASEMENT
ADD'L 1' TO HEIGHT OF BASEMENT FOUNDATION
ALTERNATE HALL BATH LAYOUT
PALLADIAN KITCHEN ADDITION
GRAND MULTI-GENERATIONAL SUITE ADDITION

OPTION No. 001
OPTION No. 018
OPTION No. 070
OPTION No. 368
OPTION No. 532
OPTION No. 263075

LEGEND:

- PERC TEST LOCATION
- W WELL LOCATION
- LOO LIMITS OF DISTURBANCE
- TW TOP OF WALL
- GF GROUND FLOOR/FIRST FLOOR
- BF BASEMENT FLOOR
- BRL BUILDING RESTRICTION LINE



VICINITY MAP

1" = 1000'

GENERAL NOTES:

- THE SUBJECT PROPERTY IS ZONED RC-DEO PER THE 2/2/04 COMPREHENSIVE ZONING PLAN AND PER COMP-LITE ZONING REGULATIONS DATED 7/28/06.
- PLAT REFERENCE: PLAT No. 21751.
- THE EXISTING TOPOGRAPHY WITHIN THE AREA OF PROPOSED WORK IS TAKEN FROM FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY ESE, DATED 4/20/11.
- SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS AND DESIGN DETAILS. PRIOR TO STAKEOUT FOR CONSTRUCTION, IT SHALL BE THE OWNER/BUILDERS RESPONSIBILITY TO PROVIDE ESE CONSULTANTS INC. WITH THE MOST RECENT SET OF HOUSE PLANS.
- THE CONTRACTOR OR DEVELOPER SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION INSPECTION DIVISION AT (410-313-1881) AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- TOTAL LIMIT OF DISTURBANCE: 34,305 SQ. FT. / 0.79 AC.±
- STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY PREVIOUSLY APPROVED PLAN F-08-199.
- ANY DAMAGE TO PUBLIC "RIGHT-OF-WAYS" OR PAVED PUBLIC ROADS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS EXPENSE IN ACCORDANCE WITH THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS.
- DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE CIVIL ENGINEER (ESE) MAY CAUSE THE WORK TO BE UNACCEPTABLE.
- THE DIMENSIONED DISTANCES SHALL GOVERN IF SCALED AND DIMENSIONED DISTANCES ON THIS PLAN ARE FOUND TO BE IN DISAGREEMENT.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM LOT AREA AND OWNERSHIP WIDTH AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- THESE AREAS DESIGNATE A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT 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 WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
- ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- UPON BUILDING PERMIT REVIEW THE SEPTIC SYSTEMS FOR ALL PROPOSED STRUCTURES AND/OR EXISTING STRUCTURE EXPANSIONS SHALL BE RE-EVALUATED TO DETERMINE SUFFICIENT SYSTEM CAPACITY.
- THE DEVELOPMENT OF THIS LOT DOES NOT REQUIRE AN ENVIRONMENTAL CONCEPT PLAN SINCE STORMWATER MANAGEMENT WAS PREVIOUSLY APPROVED UNDER F-08-199.
- A STANDARD SEDIMENT CONTROL PLAN MAY BE USED FOR DEVELOPMENT OF THIS LOT. REFERENCE GRADING PLAN DATED 12/18/13.
- THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-95-2088 HAS BEEN FIELD LOCATED BY ESE CONSULTANTS - PROFESSIONAL LAND SURVEYOR(S), AND IS ACCURATELY SHOWN.
- BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.
- CULVERT FOR DRIVEWAY PER F-08-199.

SEPTIC SYSTEM/BEST AVAILABLE TECHNOLOGY (BAT) 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 COVER.
- THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON THE MANUFACTURER'S SPECIFICATIONS.
- 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 THE 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.

APPROVED: FOR HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION

DATE

DIRECTOR

DATE

PROFESSIONAL ENGINEER

DATE

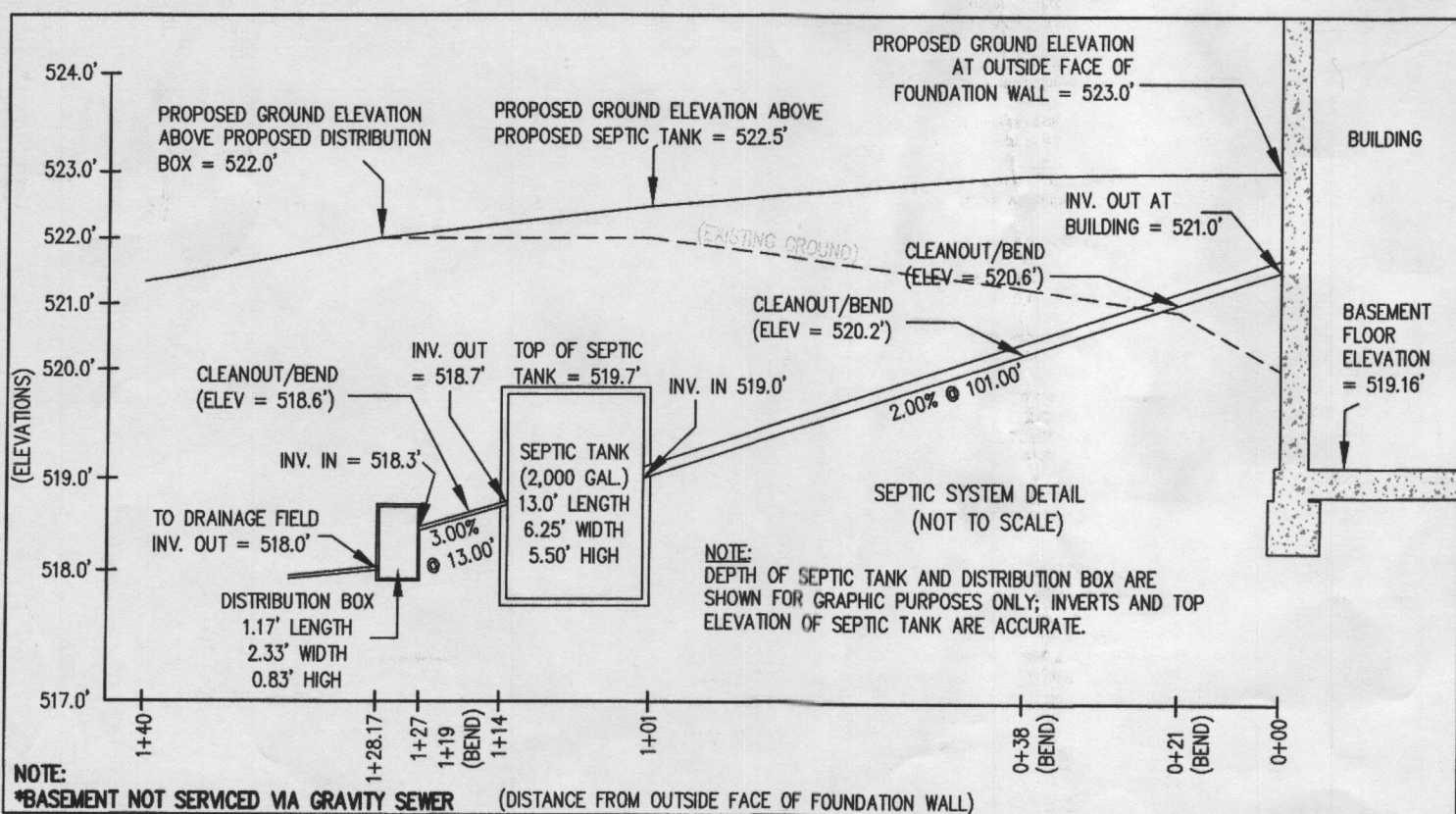
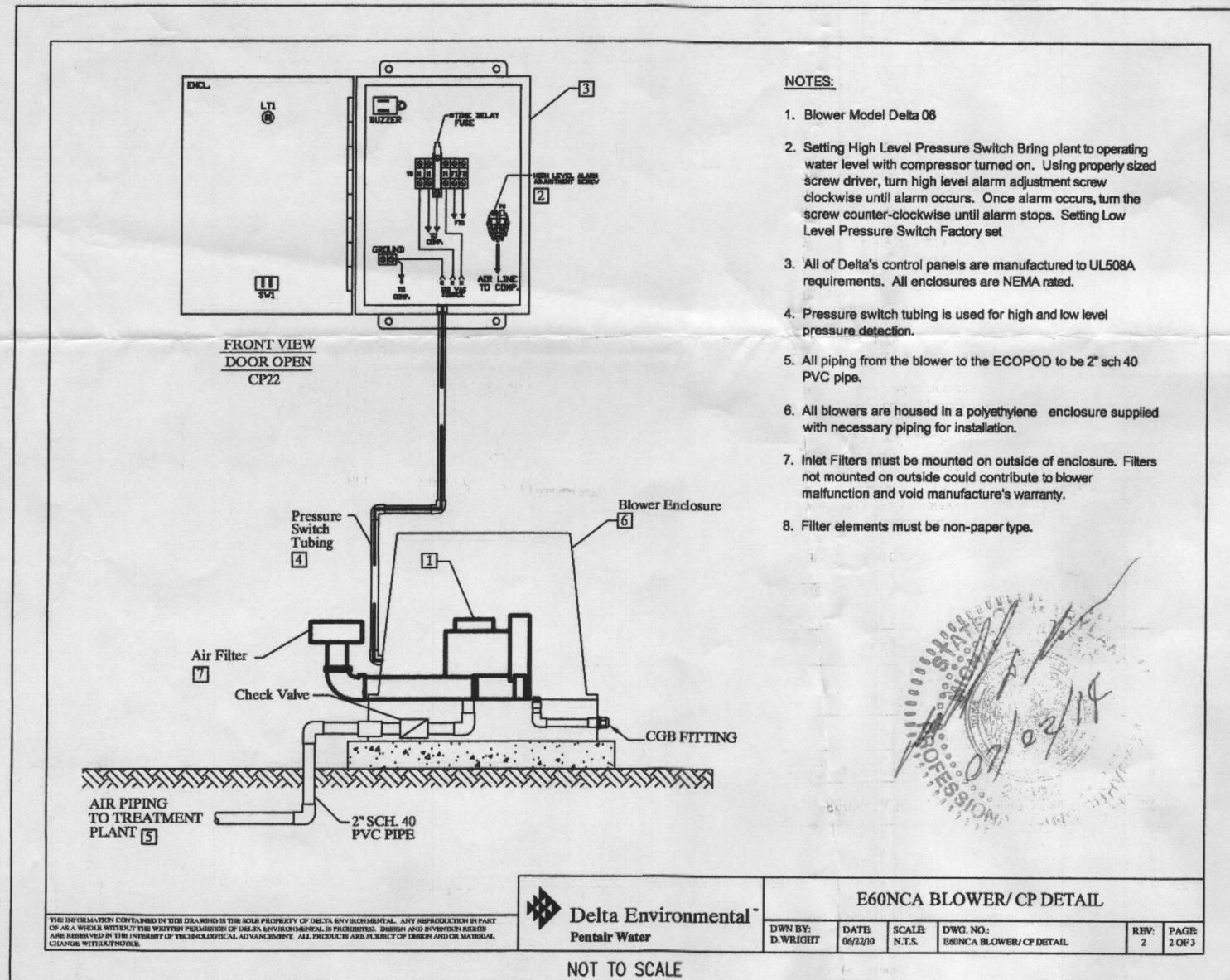
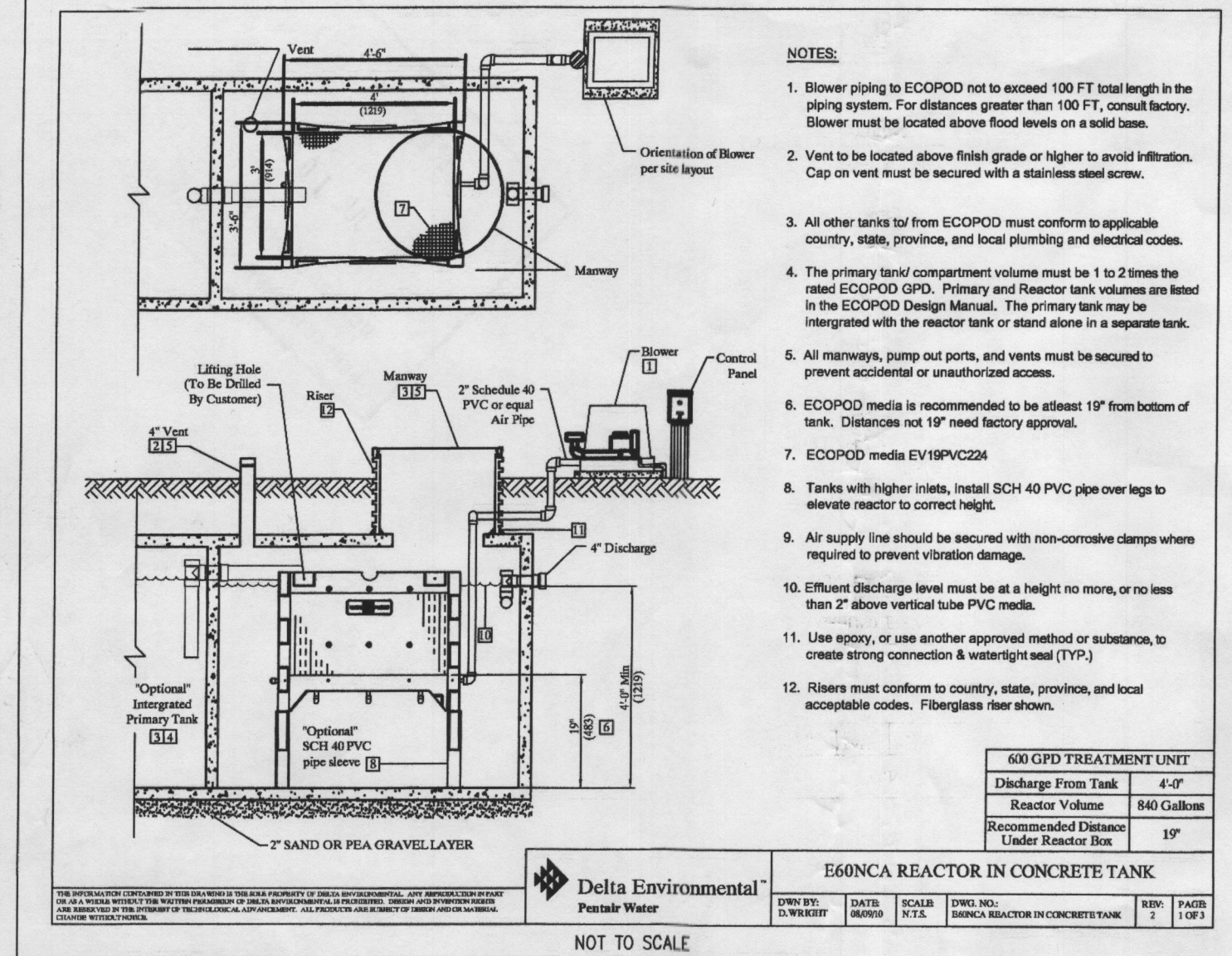
SEWAGE DISPOSAL SYSTEM DATA (5 BDRM):

- E60 ECOPOD SYSTEM
EX. GRADE OVER TANK: 522.0'
PROPOSED GRADE OVER TANK: 522.5'
INVERT IN: 519.0' INVERT OUT: 518.7'
- DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 522.0'
PROPOSED GRADE OVER TANK: 522.0'
INVERT IN: 518.3' INVERT OUT: 518.0'
- TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)
750 GPD ÷ 0.8 APP. RATE = 937.50 SF
USE 3' WIDE TRENCH WITH 24" GRAVEL BELOW PIPE
9' MIN. SPACING BETWEEN TRENCH EDGES
937.50 SF ÷ 3' WIDTH = 312.50 LF x 0.71 = 221.88 LF MIN. TRENCH
USE 3 7/4" LONG TRENCHES = 222 LF

BASEMENT NOT SERVICED VIA GRAVITY SEWER

TRENCH DATA:

- BOTTOM MAX. DEPTH (6')
- TRENCH 1 (T1):
GROUND ABOVE = 521.9'
INV. IN = 517.9'
BOTTOM TRENCH = 515.9'
- TRENCH 2 (T2):
GROUND ABOVE = 520.9'
INV. IN = 516.9'
BOTTOM TRENCH = 514.9'
- TRENCH 3 (T3):
GROUND ABOVE = 520.3'
INV. IN = 516.3'
BOTTOM TRENCH = 514.3'



PLOT PLAN FOR BAT INSTALLATION
LOT 10
MERIWETHER FARMS
LIBER 13779, FOLIO 473
PLAT No. 21751
TAX No. 04-593619
FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
ADDRESS: 14908 VICTORY LANE
GLENELG, MARYLAND

ESE Land Planning
Engineering
Land Surveying

ESE Consultants Inc.
7164 Columbia Gateway Dr.
Suite 203
Columbia, MD 21046
TEL: 410-872-9105
FAX: 410-872-4870

DATE: 07/01/14 SCALE: 1"=40' FILE: PP LOT 10_rev1
CHK'D: M.J.B. JOB NO: 3184 DRAWN: R.C.K.