

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

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

RECEIPT DATE: 7/18/14 **ONSITE SEWAGE DISPOSAL SYSTEM** P 554530

INSTALLATION APPROVAL DATE: _____ **PERMIT** A _____
CONSTRUCTION

PROPERTY ADDRESS: 4301 Buckskin Wood Drive

SUBDIVISION: Buckskin Ridge LOT: 15 TAX ID: _____

CONTRACTOR: WTC Contractors EMAIL: _____

CONTRACTOR ADDRESS: 3033 Salem Bottom Road, Westminster, MD 21157 PHONE: 410-875-9771

PROPERTY OWNER: Felicia Brown EMAIL: Fnicholas77@gmail.com

OWNER ADDRESS: 4301 Buckskin Wood Drive PHONE: 443-545-5467

BAT UNIT MODEL: ECOPOD N BAT UNIT SIZE: 1000 GPD w/gravity drainfield.

PUMP CHAMBER CAPACITY (GALLONS): _____ PUMP SIZE: _____

NUMBER OF BEDROOMS: _____ HOUSE SQ. FT. _____ APPLICATION RATE: _____

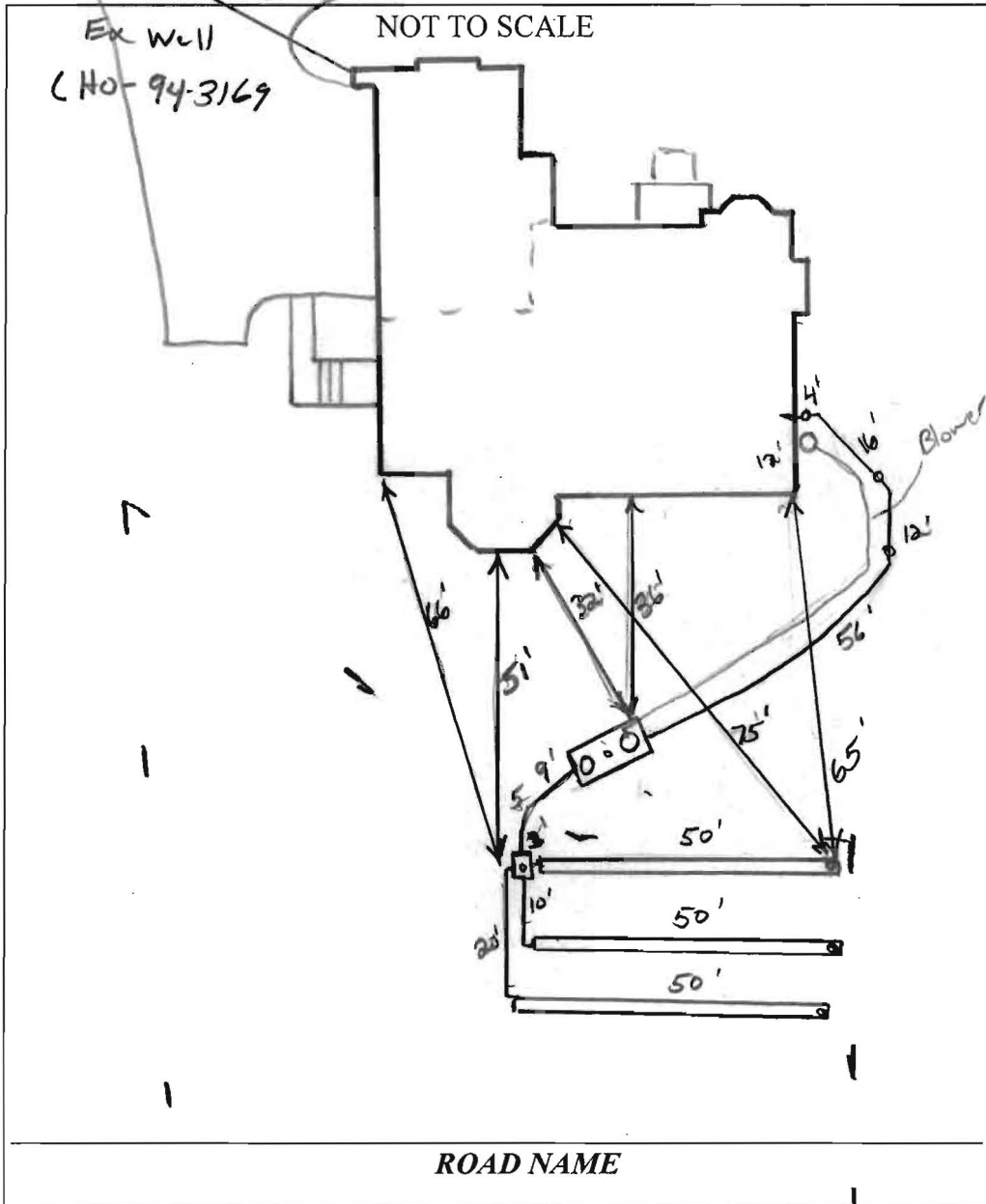
DISTRIBUTION SYSTEM: GRAVITY FED LOW PRESSURE DOSED

TRENCHES:	LINEAR FEET REQUIRED: <u>SEE BAT PLAN 150'</u>	INLET DEPTH: <u>SEE BAT PLAN 4'</u>
	TRENCH WIDTH: <u>SEE BAT PLAN 2'</u>	MAXIMUM BOTTOM DEPTH: <u>SEE BAT PLAN 7'</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:	Set BAT unit per plan. ~ 60 ft.	

ISSUED BY: Robert Bricker ISSUE DATE: _____ EXPIRATION DATE: _____

- 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

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.



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
2'	4'	7'
NUMBER OF TRENCHES	3	
TOTAL LENGTH	150'	
ABSORPTION AREA	300'+SW	
DISTRIBUTION BOX LEVEL	Level	
DISTRIBUTION BOX BAFFLE	Yes	
DISTRIBUTION BOX PORT	Yes	

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	Yes
MANUFACTURER	Babylorn
CAPACITY	Eco pod GAL
SEAM LOC	Top
TANK LID DEPTH	2.5'
BAFFLES	Yes
BAFFLE FILTER	-
MANHOLE LOC	Front/Rear
6" PORT LOC	center
WATERTIGHT TEST	-
SLOTTED	Yes
DATE ON LID	6-18-14

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:

7/23/14 Elevation's shot in field. Set Dbox per plan, run 3x50' trenches across SRT running south. Set RAT unit per plan. Tanks loc staked in field by surveyor. Home owner made comments about installing a basketball court. I explained that a plan w/ paperwork should be submitted to our office for review (KW)

INSTALLATION:

8/8/14 Arrived on-site. Contractor had system completed. SH connection backfilled. Asked contractor why nothing was called in for inspection the day prior. No practical response noted. Verbal warning issued. Written warning to be issued to contractor. Next time entire system will be dug up. must contact Health Dept. prior to backfilling. (KW)
 Need RAT start-up. (KW) 10/28/14 - EcoPOD startup called in for inspection, site visit made but contractor already completed startup and was no longer on site. (RR)

FINAL INSPECTOR _____ DATE OF APPROVAL _____

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

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

925 WAKEFIELD VALLEY ROAD
NEW WINDSOR, MD 21776

Five Year Initial Service Policy On Site Wastewater Treatment System

Brand Name: <u>ECOPOD</u>	Model Number: <u>ECOPOD 60</u>
Purchase Date: <u>10/28/14</u>	Serial Number: <u>E60N 02162 CA</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:

Felicia Brown
4301 Buckskin Wood Dr.
Flicot City 21042

INSTALLATION LOCATION:

Buckskin Wood Drive

DISTRIBUTOR:

Babylon Vault Co
925 Wakefield Valley Rd
New Windsor MD 21776

INSTALLER:

WTC Contractors
3033 Salem Bottom Rd
Westminster MD 21157

SERVICE COMPANY:

Same As Above
Service Operators License Number: Shawn R. Kautz

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

Witness: _____

e3 Environmental LLC

302-725-0788 www.e3onsite.com

ECOPOD-N Completion Statement

Installation Information

Owners Name	Felleia Brown	# of Bedrooms / GPD	
Street	430 Buckskin Wood Drive		
City	Ellicott City	Repair	<input type="checkbox"/>
State	MD	New Construction	<input type="checkbox"/>
Zip			

Installation Company

Company	WTC Contractors	Installed Date	_/_/
Certified Installer	Walter Coons	Startup Date	10/28/14
Street	3039 Salem Bottom Rd		
City	WESTMINSTER		
State	MD		
Zip	21157		

ECOPOD-N

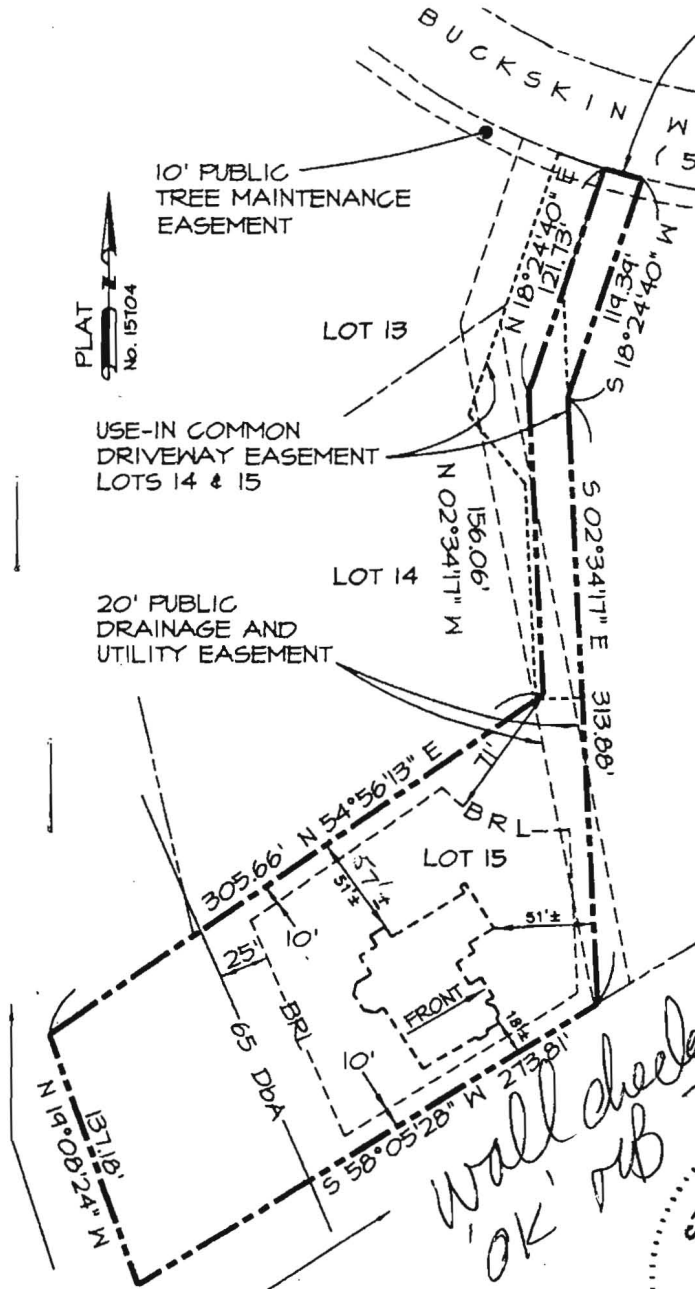
Model #	Serial #
E50	
E60 <input checked="" type="checkbox"/>	E-60N-02162 CA
E75	
E100	
E150	

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

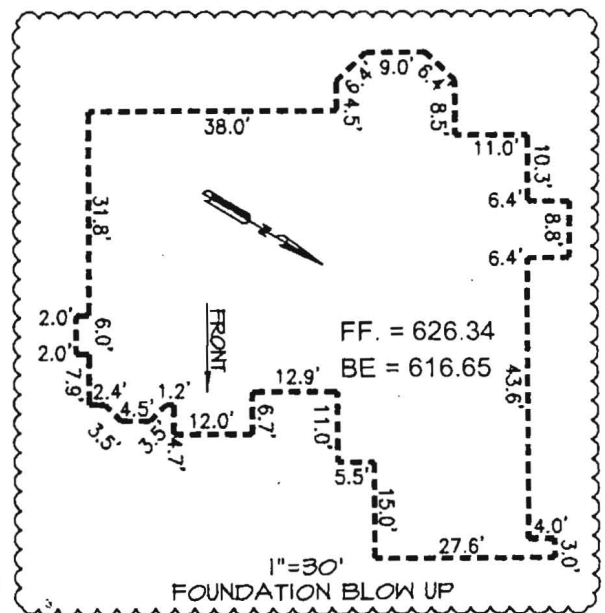
I hereby certify that the ECOPOD-N wastewater treatment system has been installed and started up in accordance with the construction permit and is in compliance with the manufacturers recommendations

Company Babylon Vault
 Signature Steven R Koetz
 Printed Name Steven R Koetz

Date 10/28/14

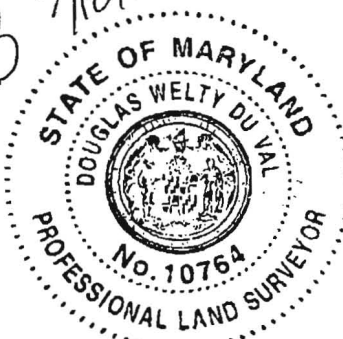


Δ-00 20.70
C LEN=20.04'
BRG=S 75°29'14" E



Footings and foundation are in and complete.

*Wall check
'ok' sub 7/10/2014*



WG, 9/10/2013 12:49:37 PM, 1:100

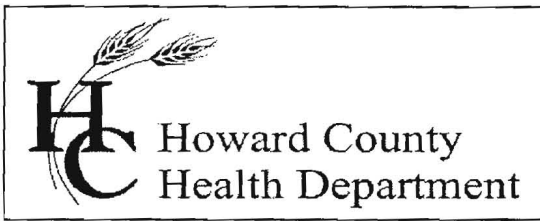
1. First Floor Cert. 04/09/14	Date: 09-10-13	Douglas W. DuVal, L.S., Pres.
	License No. 10764 (Expiration Date: 02/07/14)	DuVal & Associates, P.A.

DUVAL & ASSOCIATES, PA
ENGINEERS · SURVEYORS
1729 YORK ROAD
SUITE 205
LUTHERVILLE, MD 21093
PHONE: 410-666-5467
FAX: 410-583-4688
E-MAIL: duvalapa@verizon.net
www.duvalsurveyors.com

LOCATION DRAWING
#4301 BUCKSKIN WOOD DRIVE
TAX MAP #22, GRID #21, PARCEL #77, LOT #15
5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=100' DATE: SEPTEMBER 6, 2013

0' 100' 200' 300'

P:\G1\Jobs\2013\13026\DRAWINGS\1302



Bureau of Environmental Health

8930 Stanford Blvd., Columbia, MD 21045
Main: 410-313-1771 | Fax: 410-313-2648
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org

Facebook: www.facebook.com/hocohealth
Twitter: HowardCoHealthDep

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

July 2, 2014

TO: RTF Associates, Inc
rtf142@verizon.net

FROM: Robert Bricker
Environmental Sanitarian II

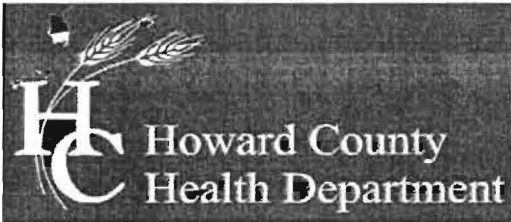
RE: **4301 Buckskin Wood Drive, BAT Site Plan: comment**

The BAT Site Plan needs to be amended as follows:

1. In the Plan View, position the Distribution Box near beginning of the top trench. Then in the Septic System Profile, the position and invert for the Distribution Box will need to be edited.
2. Illustrate the location of the Blower.
3. Illustrate the location of the Control Panel.
4. Edit the "SEWAGE DISPOSAL SYSTEM SPECS", as follow:
 - a. "MAXIMUM PIPE DEPTH" is not. Correct as 'DISTRIBUTION PIPE INVERT = 3 FEET'.
 - b. 'DEPTH OF STONE BELOW PIPE = 4 FEET
 - c. Insert: 'EFFECTIVE ABSORPTION AREA BEGINS AT 3.5 FEET.
 - d. 'MINIMUM TRENCH SPACING = 9 FEET.
5. In the Plan View, illustrate the required minimum trench spacing accurately (at 9 feet).

Re-submit two (2) copies of the revised plan directly to the Bureau of Environmental Health, to my attention.

Copy: file



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www.hchealth.org
Facebook: www.facebook.com/hocohealth
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 20 day of June, ²⁰¹⁴ among FELICIA BROWN, 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 4301 Buckskin Wood Dr 21042, 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 _____.

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

4301 BUCKSINWOOD

Clerk of the Circuit Court for
Howard County
Land Records/Licensing

PK

The Thomas Dorsey Building
9250 Bendix Road
Columbia, MD 21045
410-313-5850

=====
LR - Recording Fee (No Taxes)
1x 20.00 20.00

Grantor/Grantee Name: Brown
Reference/Control #: 92

LR - Surcharge
1x 40.00 40.00

=====
SubTotal: 60.00
Total: 60.00

=====
REV-Check-BOA 60.00
Number : 3428

06/20/2014 12:02
#2944244 /1246/109

CC13-DS

~ Thank you for visiting us today ~

Bricker, Robert

* **From:** Bricker, Robert
Sent: Tuesday, January 07, 2014 4:30 PM
To: 'Felicia Nicholsonbrown'
Cc: Williams, Jeffrey
Subject: FW: 4301 Buckskin Wood Drive_effect of MDE rule

Dear Ms. Brown,

Responding to your additional inquiry (via voicemail) regarding notice of changes in regulations or rules, especially the rule change requiring BAT units for new construction. In 2012, after the Maryland Department of the Environment had promulgated the rules, Bureau administrators notified contractors and builders, including persons receiving communications through Howard County Homebuilders Association, about the anticipated requirements for when the rule would be implemented on January 1, 2013. By that time several months had passed since the last review of your proposed, and approved, construction project.

It was not, and is not now, common practice for Bureau personnel to review files of projects previously approved to see if persons need to be notified of upcoming rule changes, not to not to notify such individuals of those anticipated changes.

Please be advised that I do not know of anybody, including administrators and State agency personnel, who has authority to override the rule change requiring BAT units to be installed on new construction.

Robert Bricker, REHS/R.S.

From: Bricker, Robert
Sent: Friday, January 03, 2014 10:14 AM
To: 'Felicia Nicholsonbrown'
Subject: 4301 Buckskin Wood Drive_effect of MDE rule

Dear Ms. Brown,

In response to your inquiry left on my voicemail on January 2, I have reviewed the approval and issuance of a building permit for 4301 Buckskin Wood Drive. I found that on three occasions (5/9/2008, 3/9/2011, and 2/15/2012) I have approved a permit for construction of a residence at the referenced address. There is no indication in the file that a payment of fee has ever been submitted to the Bureau of Environmental Health in association with a request for issuance of a Septic System Permit for installation of a septic system at 4301 Buckskin Wood Drive.

Briefly, during the legislative session of Spring 2012, the Legislature of the State of Maryland authorized the Maryland Department of the Environment (MDE) to promulgate rules to reduce the amount of nitrogen released from septic systems throughout the State. MDE developed the rules, then in late summer of 2012 MDE released notification of the rules and guidelines on implementation.

Effective January 1, 2013, all septic systems installed for new construction in Howard County (and much of the State of Maryland) must include a best available technology (BAT) unit. Persons, including builders, contractors, and property owners, who had presented appropriate documentation and payment of fees prior to January 1, 2013 were able to obtain a permit to install a septic system with a standard septic tank until their permit expired at one year from date of issue. At this time, the Bureau of Environmental Health shall not permit installation of a septic system for new construction on any property unless that installation includes a BAT unit that reduces the release of nitrogen in the wastewater effluent discharged to the soil. There is not an opportunity for variance from this rule that has been implemented by MDE.

Robert Bricker, REHS/R.S.

ROBERT BRICKER, CPSS, REHS/RS
ENVIRONMENTAL HEALTH SPECIALIST
DEVELOPMENT COORDINATION SECTION, WELL AND SEPTIC PROGRAM
HOWARD COUNTY BUREAU OF ENVIRONMENTAL HEALTH
8930 STANFORD BOULEVARD

COLUMBIA, MD 21045

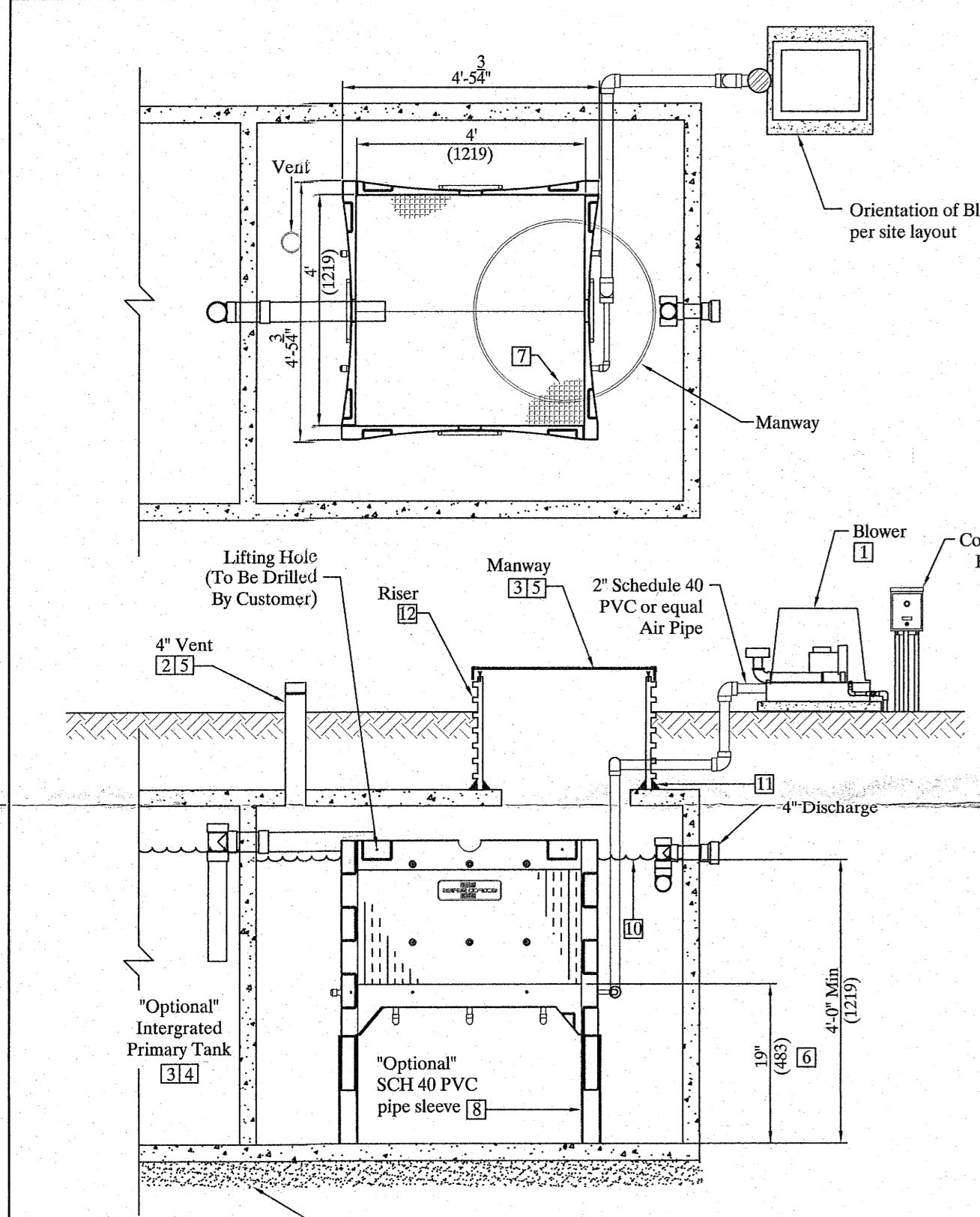
410-313-2691; fax, 410-313-2648

rbricker@howardcountymd.gov

;

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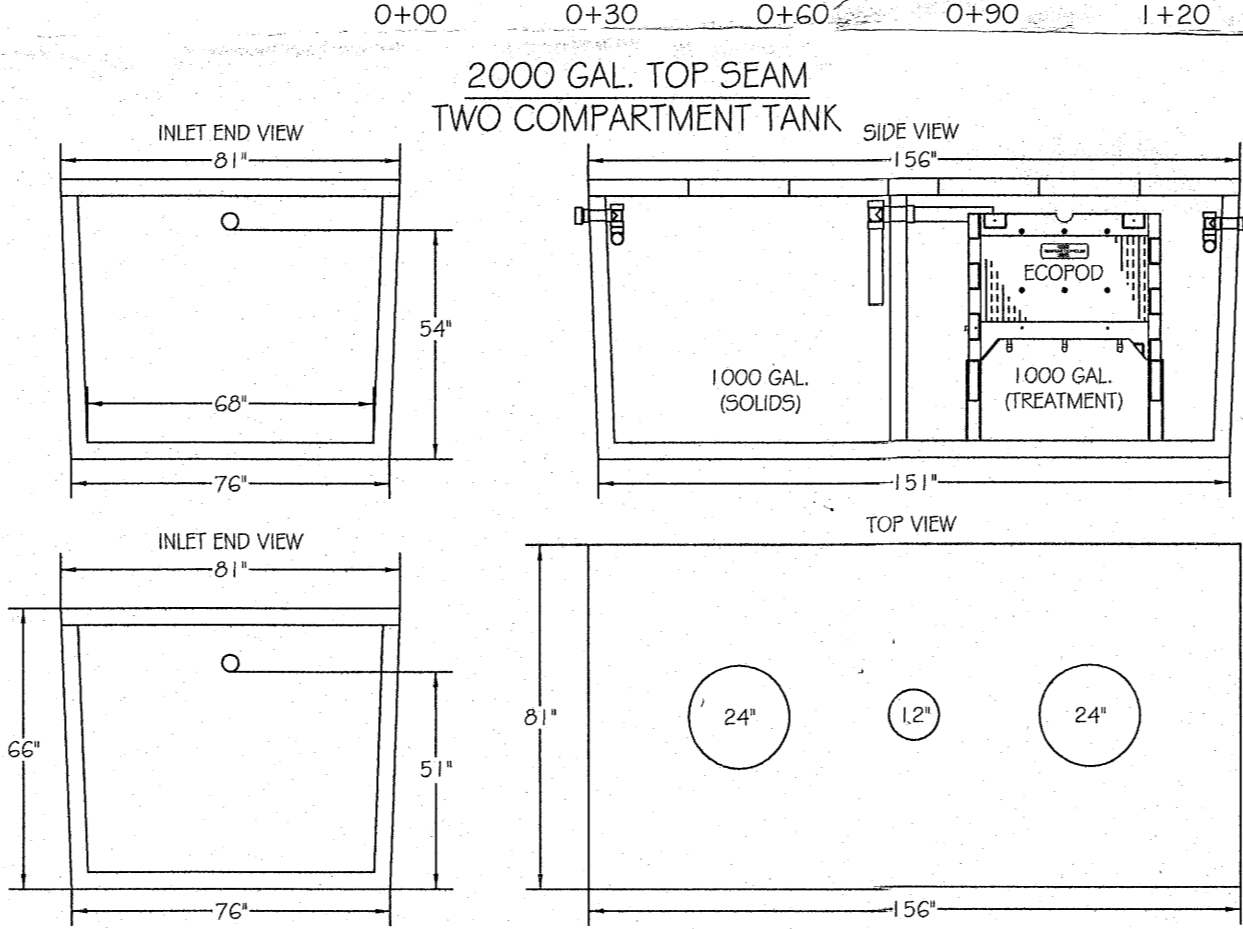
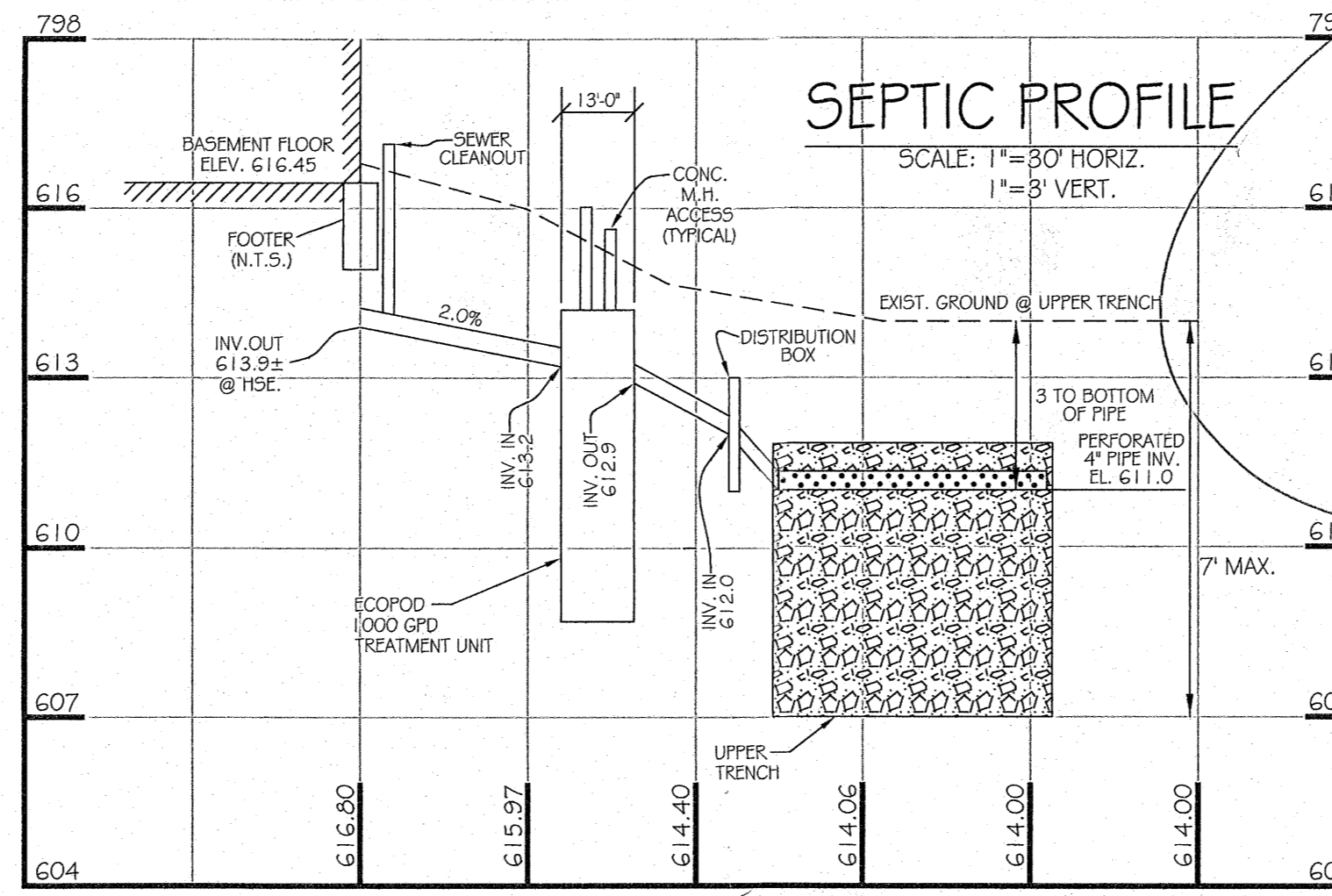


- NOTES:**
- Blower piping to ECOPOD not to exceed 100 FT total length in the piping system. For distances greater than 100 FT, consult factory. Blower must be located above flood levels on a solid base.
 - Vent to be located above finish grade or higher to avoid infiltration. Cap or vent must be secured with a stainless steel screw.
 - All other tanks for ECOPOD must conform to applicable country, state, province, and local plumbing and electrical codes.
 - The primary tank/ compartment volume must be 1 to 2 times the rated ECOPOD GPD. Primary and Reactor tank volumes are listed in the ECOPOD Design Manual. The primary tank may be integrated with the reactor tank or stand alone in a separate tank.
 - All manways, pump out ports, and vents must be secured to prevent accidental or unauthorized access.
 - ECOPOD media is recommended to be at least 19" from bottom of tank. Distances not 19" need factory approval.
 - ECOPOD media EV19PVC224
 - Tanks with higher inlets, install SCH 40 PVC pipe over legs to elevate reactor to correct height.
 - Air supply line should be secured with non-corrosive clamps where required to prevent vibration damage.
 - Effluent discharge level must be at a height no more, or no less than 2" above vertical tube PVC media.
 - Use epoxy, or use another approved method or substance, to create strong connection & watertight seal (TYP.)
 - Risers must conform to country, state, province, and local acceptable codes. Fiberglass riser shown.

1000 GPD TREATMENT UNIT	
Discharge From Tank	4'-0"
Reactor Volume	1400 Gallons
Recommended Distance Under Reactor Box	19"

E100NCA REACTOR IN CONCRETE TANK

OWN: D. WRIGHT DATE: 06/09/10 SCALE: N.T.S. DWG. NO.: E100NCA REACTOR IN CONCRETE TANK REV: 2 PAGE: 1 OF 3

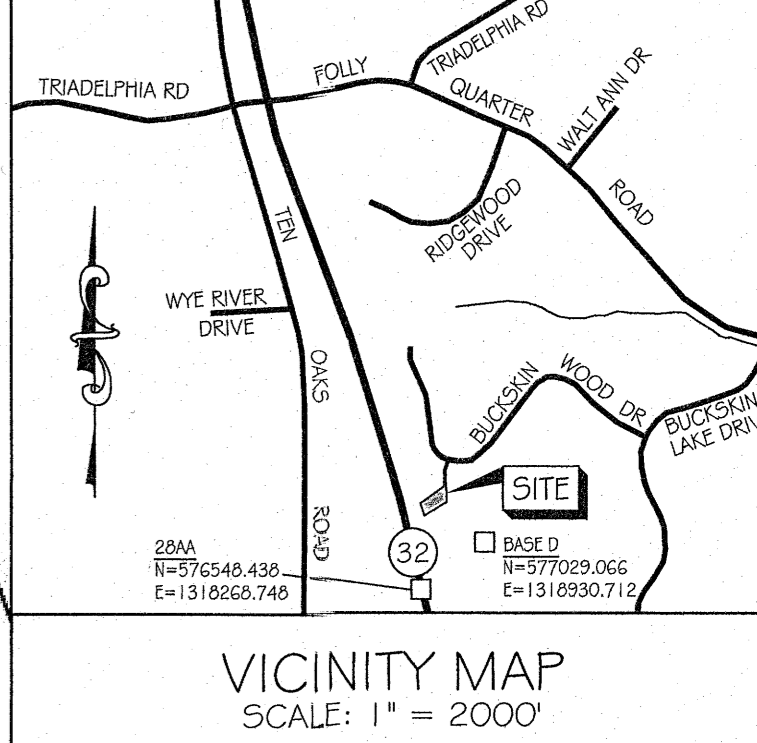


TANK ORDER INFORMATION:
 BABYLON VAULT
 925 WAKEFIELD VALLEY ROAD
 NEW WINDSOR, MD. 21176
 410-848-0393

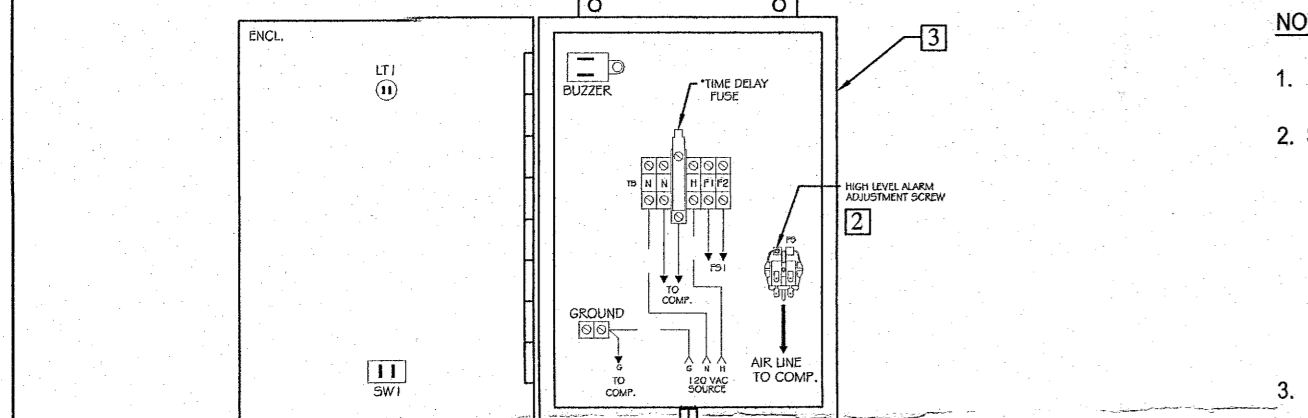
- SEWAGE DISPOSAL SYSTEM SPECS:**
- APPLICATION RATE= 1.2
 - DESIGN FLOW= 900 G.P.D
 - WIDTH OF TRENCH= 2 FEET
 - DISTRIBUTION PIPE INVERT DEPTH= 3 FEET
 - DEPTH OF STONE BELOW PIPE= 4 FEET
 - BOTTOM STONE MAXIMUM DEPTH= 7 FEET
 - EFFECTIVE ABSORPTION AREA BEGINS AT 3.5'
 - MINIMUM TRENCH SPACING= 9 FEET
 - TOTAL LINEAR LENGTH OF TRENCH PER SYSTEM= 150 FEET
 - INITIAL AND REPLACEMENT SYSTEMS= (3) 50 FT. TRENCHES.

LEGEND

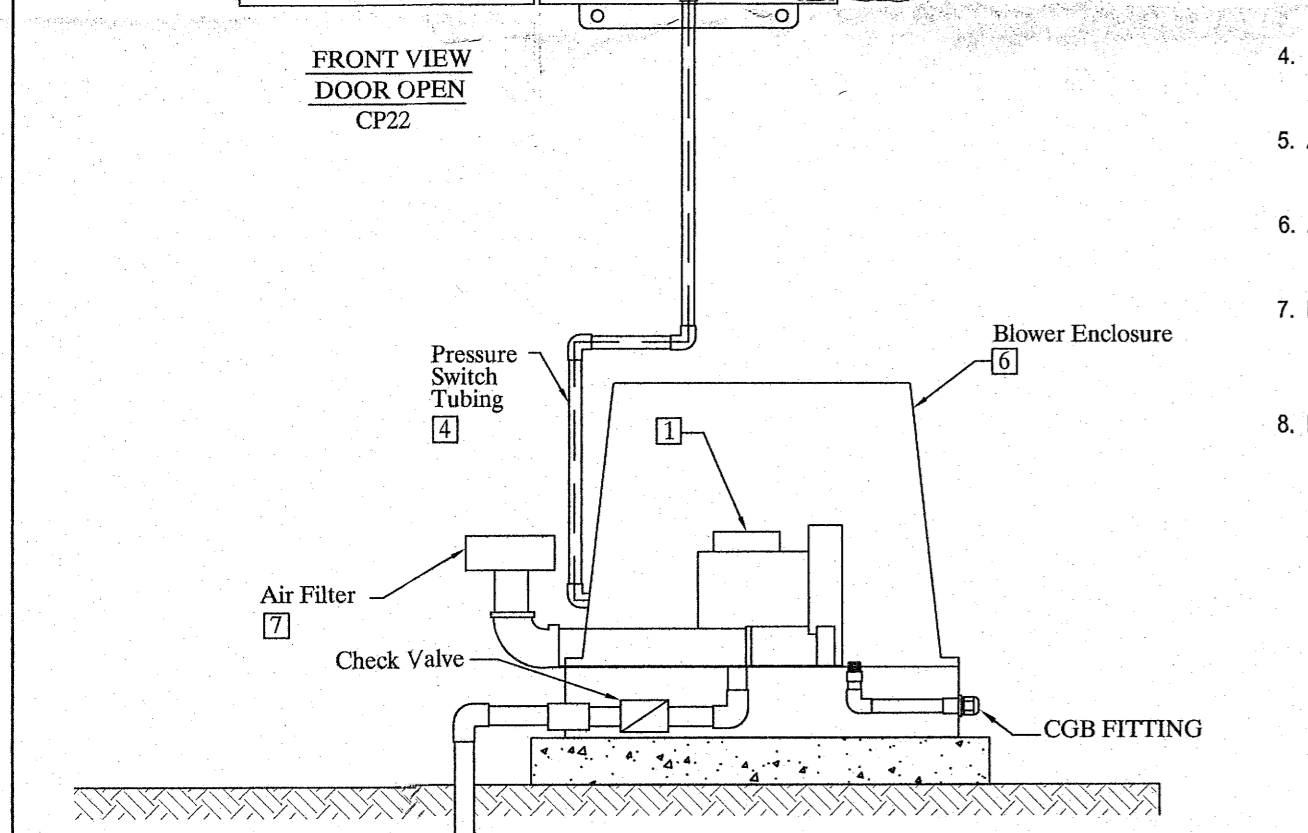
SOIL CLASSIFICATION -
 PROPERTY LINE -
 APPROVED PERC. TEST -



Delta Environmental
 Pentair Water



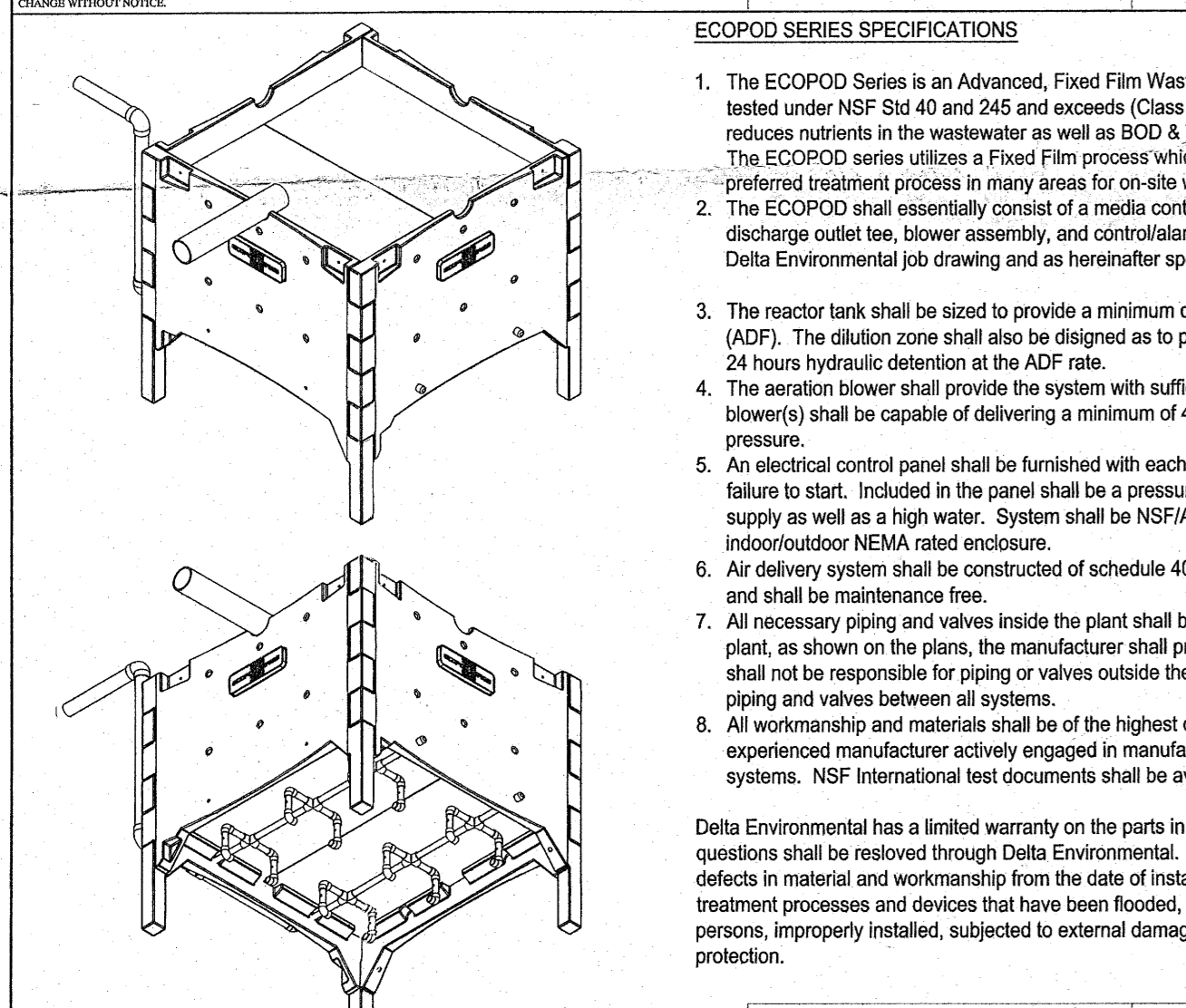
- NOTES:**
- Blower Model K03
 - Setting High Level Pressure Switch
 Bring plant to operating water level with compressor turned on. Using properly sized screw driver, turn high level alarm adjustment screw clockwise until alarm occurs. Once alarm occurs, turn the screw counter-clockwise until alarm stops.
 Setting Low Level Pressure Switch
 Factory set
 - All of Delta's control panels are manufactured to UL508A requirements. All enclosures are NEMA rated.
 - Pressure switch tubing is used for high and low level pressure detection.
 - All piping from the blower to the ECOPOD to be 2" sch. 40 PVC pipe.
 - All blowers are housed in a polyethylene enclosure supplied with necessary piping for installation.
 - Inlet Filters must be mounted on outside of enclosure. Filters not mounted on outside could contribute to blower malfunction and void manufacturer's warranty.
 - Filter elements must be non-paper type.



E100NCA BLOWER/ CP DETAIL

OWN: D. WRIGHT DATE: 06/22/10 SCALE: N.T.S. DWG. NO.: E100NCA BLOWER/ CP DETAIL REV: 2 PAGE: 2 OF 3

Delta Environmental
 Pentair Water

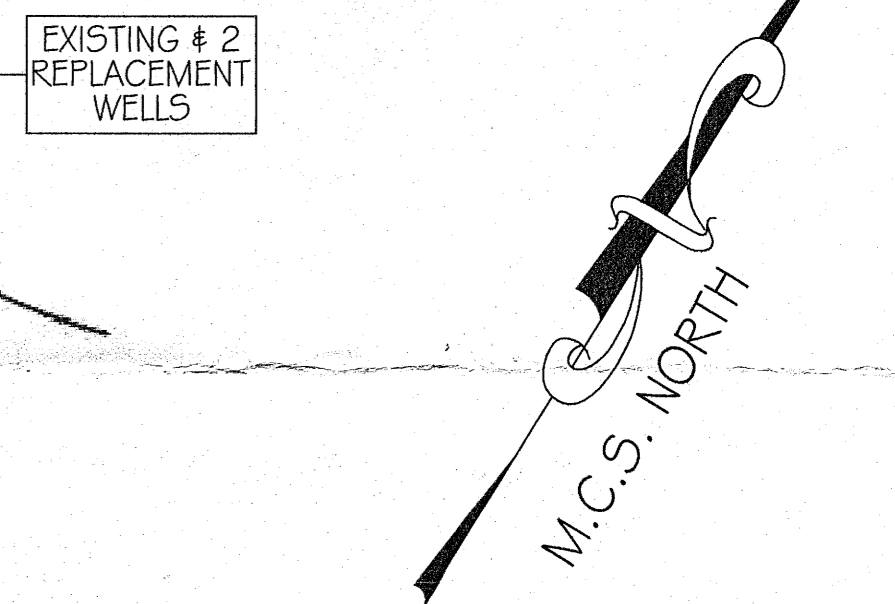
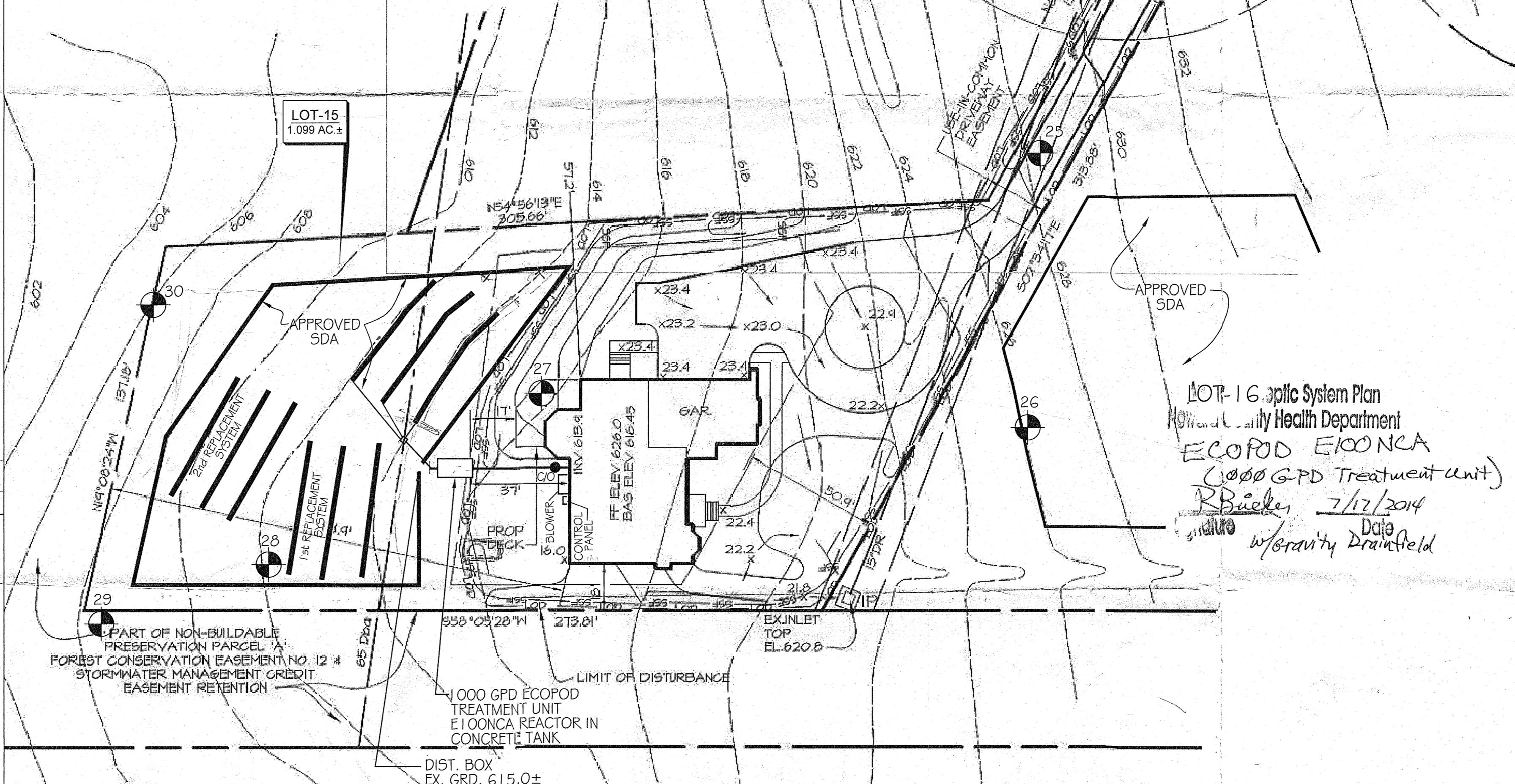


- ECOPOD SERIES SPECIFICATIONS**
- The ECOPOD Series is an Advanced, Fixed Film Wastewater Treatment device from 500 to 1500 GPD. It has been tested under NSF Std 40 and 245 and exceeds (Class 1) requirements for effluent quality. The ECOPOD significantly reduces nutrients in the wastewater as well as BOD & TSS and offers nitrification and de-nitrification in a single tank. The ECOPOD series utilizes a Fixed Film process which is characteristically stable, reliable, and sturdy. Fixed Film is a preferred treatment process in many areas for on-site wastewater treatment systems.
 - The ECOPOD shall essentially consist of a media container, engineered media, air diffusion system, specially designed discharge outlet tee, blower assembly, and control alarm panel. Additional features and accessories are as shown on the Delta Environmental job drawing and as hereinafter specified and described.
 - The reactor tank shall be sized to provide a minimum of 33.6 hours of hydraulic detention time at the average daily flow (ADF). The dilution zone shall also be designed as to provide optimum liquid-solid separation and shall be sized to provide 24 hours hydraulic detention at the ADF rate.
 - The aeration blower shall provide the system with sufficient capacity to furnish the treatment units air requirements. The blower(s) shall be capable of delivering a minimum of 4,850 cubic feet per pound of BOD5 influent at required discharge pressure.
 - An electrical control panel shall be furnished with each compressor that will protect the compressor from overload and failure to start. Included in the panel shall be a pressure switch alarm system that will sound an alarm upon loss of air supply as well as a high water. System shall be NSF/ANSI International certified utilizing UL rated components in an indoor/outdoor NEMA rated enclosure.
 - Air delivery system shall be constructed of schedule 40 PVC pipe. Patented air ports shall be designed for non-clogging and shall be maintenance free.
 - All necessary piping and valves inside the plant shall be PVC and provided by the manufacturer. At the exterior wall of the plant, as shown on the plans, the manufacturer shall provide properly sized inlet and outlet connections. The manufacturer shall not be responsible for piping or valves outside the plant. Contractor or owner shall be responsible for necessary piping and valves between all systems.
 - All workmanship and materials shall be of the highest quality. The waste treatment plant shall be the product of an experienced manufacturer actively engaged in manufacturing and research and development of sewage treatment systems. NSF International test documents shall be available upon request of the engineer.
- Delta Environmental has a limited warranty on the parts in each treatment system for a period of (2) years. All warranty questions shall be resolved through Delta Environmental. The warranty on the treatment device is that the device is free from defects in material and workmanship from the date of installation treating household wastewater. The warranty does not cover treatment processes and devices that have been flooded, by external means, or that have been disassembled by unauthorized persons, improperly installed, subjected to external damage or damaged due to altered or improper wiring of overload protection.

E100NCA REACTOR

OWN: D. WRIGHT DATE: 06/22/10 SCALE: N.T.S. DWG. NO.: E100NCA REACTOR REV: 2 PAGE: 3 OF 3

Delta Environmental
 Pentair Water



BUILDING PERMIT# B08000786

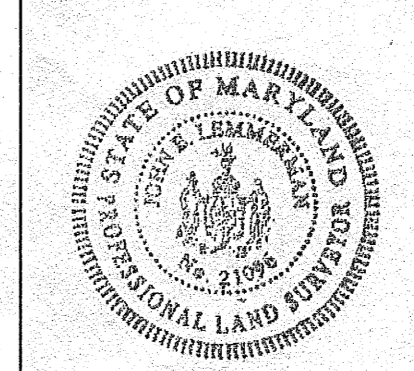
SITE PLAN
 FOR
BAT INSTALLATION
 INDIVIDUAL LOT - RESIDENTIAL
 OF
LOT-15
BUCKSKIN RIDGE
 AS RECORDED ON PLAT C.M.P. NO. 15704
4301 BUCKSKIN WOOD DRIVE
 TAX MAP: 22, GRID: 21, PARCEL: 77
 TAX ID# 05-436184
 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

LOT-16 Septic System Plan
 Howard County Health Department
ECOPOD E100NCA
 (1000 GPD Treatment unit)
 Buckler 7/17/2014
 w/gravity drainfield

- NOTES:**
- ANY CHANGES TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER, DESIGNER 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 SPECIFICATIONS IS 4 FEET.
 - 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 ON 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.
 - FIELD RUN TOPOGRAPHIC SURVEY DONE BY CLARK, FINEBROCK & SACKETT, INC.
 - THE EXISTING WELL SHOWN HEREON THIS PLAN, TAG NO. HO-94-3189 HAS BEEN FIELD LOCATED BY FISHER, COLLINS & GARTER, INC., PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.

REVISIONS	
DATE	REASON
7-3-14	COUNTY COMMENTS

John E. Lemmerman
JOHN E. LEMMERMAN
 REGISTERED PROFESSIONAL LAND SURVEYOR NO. 21096
 EXP. 8-3-15



TITLE REFERENCE	OWNER / DEVELOPER
FELICIA N. BROWN DEAS D. BROWN LIBER 11078, FOLIO 244 FEBRUARY 5, 2008	FELICIA N. BROWN DEAS D. BROWN P.O. BOX 82 GLENELG, MD. 21307D 301-974-2161

RTF
 associates, Inc.
 LAND SURVEYORS
 & PLANNERS

142 EAST MAIN STREET WESTMINSTER, MD 21157
 410-848-2040 FAX# 443-289-8942 410-876-1222
 EMAIL: RTF142@GMAIL.NET WWW.RTFSURVEYING.COM

CHECKED BY: JEL DATE: 6-16-14
 DRAWN BY: NCC DATE: 6-16-14
 SCALE: 1" = 30'

RTF JOB#: 14-62 COUNTY FILE#: SHEET: 1 OF 1