



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: 5-16-14 **ONSITE SEWAGE DISPOSAL SYSTEM** P 546304

INSTALLATION APPROVAL DATE: B-26-14 **PERMIT** A _____
Kmw
CONSTRUCTION

PROPERTY ADDRESS: 13589 Mitchells Way

SUBDIVISION: Cloverfield II LOT: 2 TAX ID: 03-353397

CONTRACTOR: WTC Contractors EMAIL: _____

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

PROPERTY OWNER: Spring Mill LLC. EMAIL: _____

OWNER ADDRESS: 8480 Baltimore National Pike, Ellicott City, MD 21041 PHONE: 410-465-4244

BAT UNIT MODEL: ECOPOD N BAT UNIT SIZE: 2000 GAL

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

NUMBER OF BEDROOMS: 4 HOUSE SQ. FT. 2824 APPLICATION RATE: 1.2

DISTRIBUTION SYSTEM: GRAVITY FED LOW PRESSURE DOSED

TRENCHES:	LINEAR FEET REQUIRED: <u>144</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>2</u>	MAXIMUM BOTTOM DEPTH: <u>7</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>8</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5</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 near northwest corner of SDA but not in SDA. Set distribution box near northwest corner of SDA. Install 2 X 72' trenches on contour.	

ISSUED BY: Robert Bricker ISSUE DATE: 5-16-14 EXPIRATION DATE: 5-16-15

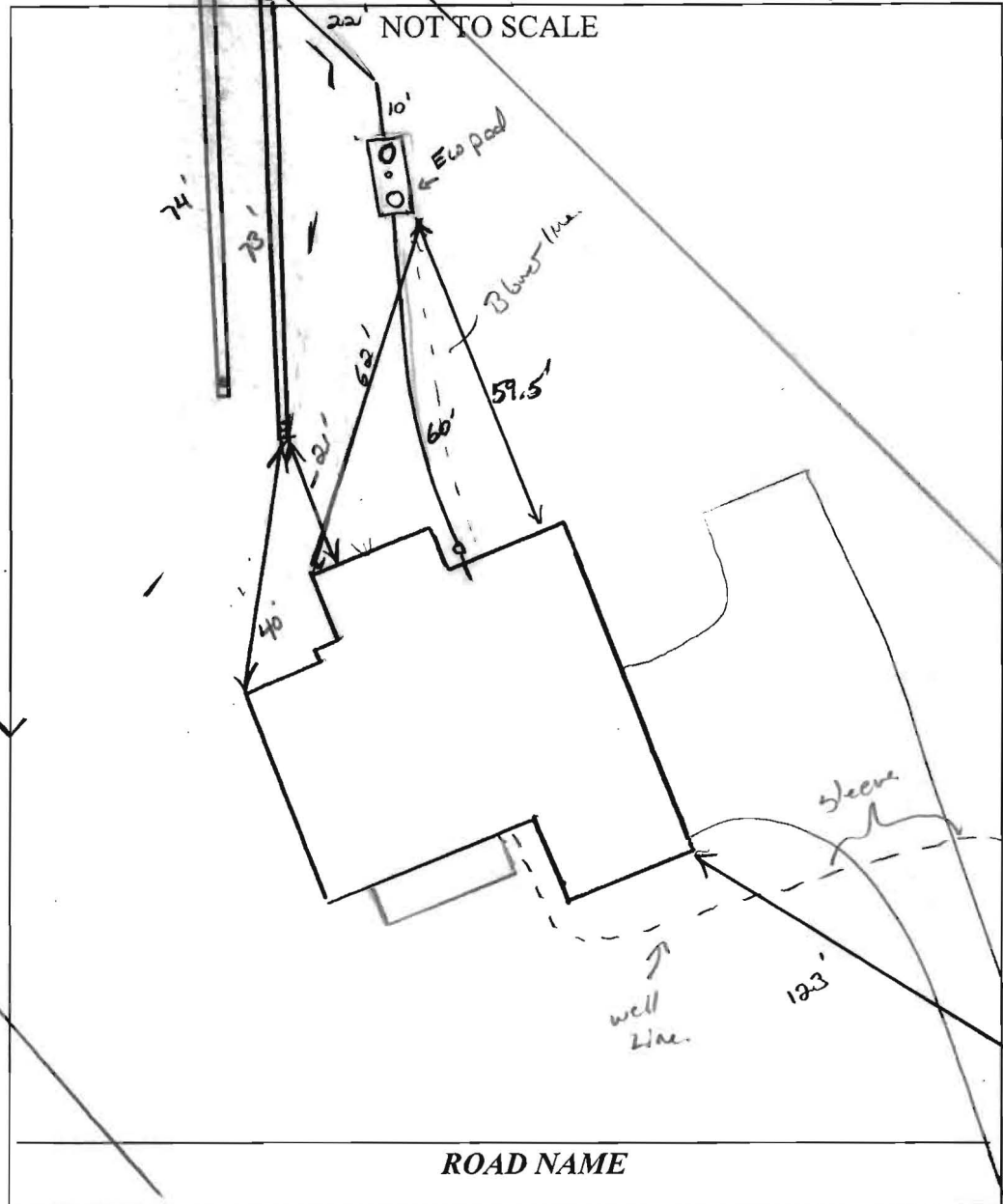
- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET 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.

1" = 30'



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
2'	4'	7'
NUMBER OF TRENCHES		2
TOTAL LENGTH _____		
ABSORPTION AREA _____		
DISTRIBUTION BOX LEVEL <u>levelers</u>		
DISTRIBUTION BOX BAFFLE <u>Yes</u>		
DISTRIBUTION BOX PORT <u>Yes</u>		

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	<u>Yes</u>
MANUFACTURER	<u>Babylon</u>
CAPACITY	<u>Europod</u> GAL
SEAM LOC	<u>Top</u>
TANK LID DEPTH	<u>2'</u>
BAFFLES	<u>Yes</u>
BAFFLE FILTER	<u>-</u>
MANHOLE LOC	<u>Front/Rear</u>
6" PORT LOC	<u>Under</u>
WATERTIGHT TEST	<u>-</u>
SLOTTED	<u>Yes</u>
DATE ON LID	_____
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	<u>HO-95-1333</u>

PRE-CONSTRUCTION:

6/3/14 Contractor arrived 30 mins late. BAT tank staked w/ 10' offset. looks good. Elevations shot for trenches. Contractor runs pretty much to plan. Install 2x22' trenches per BAT plan. Call for insp (KW)

INSTALLATION:

6/6/14 BAT unit set per layout/BAT plan. Lower being installed. SHC made. OK to continue (KW) 6/9/14 Trenches complete. D box leveled. Need Air line for blower + BAT start-up prior to final approval (KW) 6/10/14 Blower line installed. Need BAT startup (KW)

FINAL INSPECTOR [Signature] DATE OF APPROVAL 8/26/14



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>ECOPRO</u>	Model Number: <u>ECOPRO 60</u>
Purchase Date: <u>8/19/14</u>	Serial Number: <u>E60N03190CA</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 there after..
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 there after.
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 rest 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:

Catonsville Homes

INSTALLATION LOCATION:

13589 Mitchells Way
WEST FRIENDSHIP MD
21794

DISTRIBUTOR:

Babylon Vault Co

INSTALLER:

WTC Cont
3033 Salem Bottom Rd
WESTMINSTER MD 21157

SERVICE COMPANY:

Babylon Vault Co
Service Operators License Number: Steven Krentz G.M.

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	Catoxville Homes	# of Bedrooms / GPD	600
Street	13589 13589 Mitchells Way	Repair	<input type="checkbox"/>
City	West Friendship	New Construction	<input checked="" type="checkbox"/>
State	MD		
Zip	21794		

Installation Company

Company	WTC Cont	Installed Date	1/1
Certified Installer	Walter Coon Jr	Startup Date	8/19/14
Street	3033 Salem Bottom Rd		
City	WESTMINSTER		
State	MD		
Zip	21157		

ECOPOD-N

Model #		Serial #
E50	<input type="checkbox"/>	
E60	<input checked="" type="checkbox"/>	ECO N 02140 CA
E75	<input type="checkbox"/>	
E100	<input type="checkbox"/>	
E150	<input type="checkbox"/>	

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 Co Date 8/19/14
 Signature Steven R Kocate
 Printed Name Steven R Kocate



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 7178 Columbia Gateway Drive, Columbia, MD 21046-2147
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 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

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

THIS AGREEMENT is made this 4 day of October 2013, among Spring Mill 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 13589 Mitchells Way, W. Friendship, MD 21794 (Lot 2), in the 03 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 11285 Folio 00864.

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.

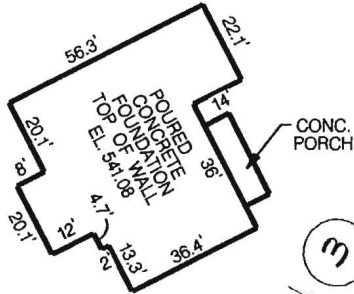
Spring Milk LLC
J.R. Maxley III 10/4/13
Owner James R. Maxley, III Date

Owner Date

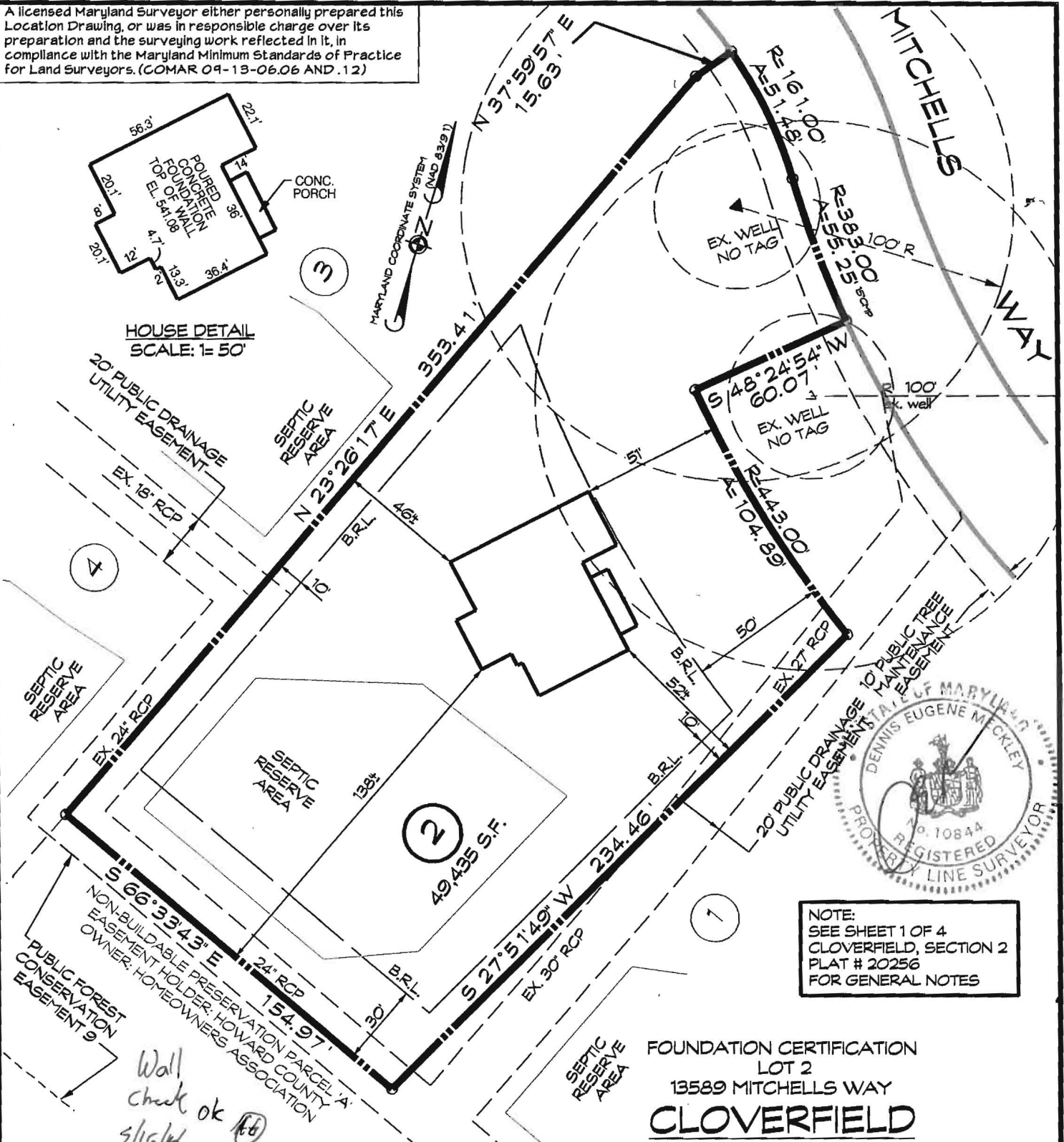
Beet Nifon 11/4/2013
Howard County Health Department

LR - Agreement Recording Fee 20.00
Grantor/Grantee Name: HCHD
Reference/Control #: 176
LR - Agreement Surcharge 40.00
LR - (Additional) Recording Fee 0.00
- linked
SubTotal: 60.00
Total: 900.00
#2168213-61 02:53 CC13-CH
11/04/2013
#2168213 CC0503 - Howard Co
Columbiana/CC05.03.03 - Register
03 495

A licensed Maryland Surveyor either personally prepared this Location Drawing, or was in responsible charge of its preparation and the surveying work reflected in it, in compliance with the Maryland Minimum Standards of Practice for Land Surveyors. (COMAR 09-13-06.06 AND .12)



HOUSE DETAIL
SCALE: 1= 50'



NOTE:
SEE SHEET 1 OF 4
CLOVERFIELD, SECTION 2
PLAT # 20256
FOR GENERAL NOTES



FOUNDATION CERTIFICATION
LOT 2
13589 MITCHELLS WAY
CLOVERFIELD

SECTION II
3RD ELECTION DISTRICT • HOWARD COUNTY, MD.
TAX MAP: 15 BLOCK: 7 PARCEL: 119
RECORDED PLAT NO. 20257

I hereby certify that I have surveyed the property shown hereon for the sole purpose of locating the improvements. This plan is a benefit to the customer only in so far as it is required by a lender or a title insurance company or its agent in connection with contemplated transfer, financing or refinancing. It is not to be relied upon for the establishment of boundary, easement or right-of-way lines for any reason, such as the location of fences, garages, buildings, or other existing or future improvements. Offsets of buildings to property lines are to the nearest foot (1') unless otherwise noted.

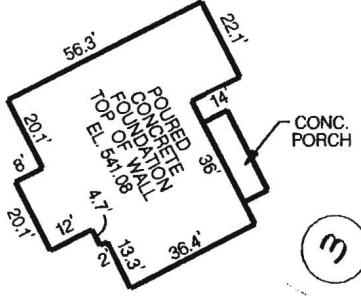
By: *Dennis E. Meckley* Date: *3/04/14*
Dennis E. Meckley Property Line Surveyor No. 10844
License expires March 29, 2016



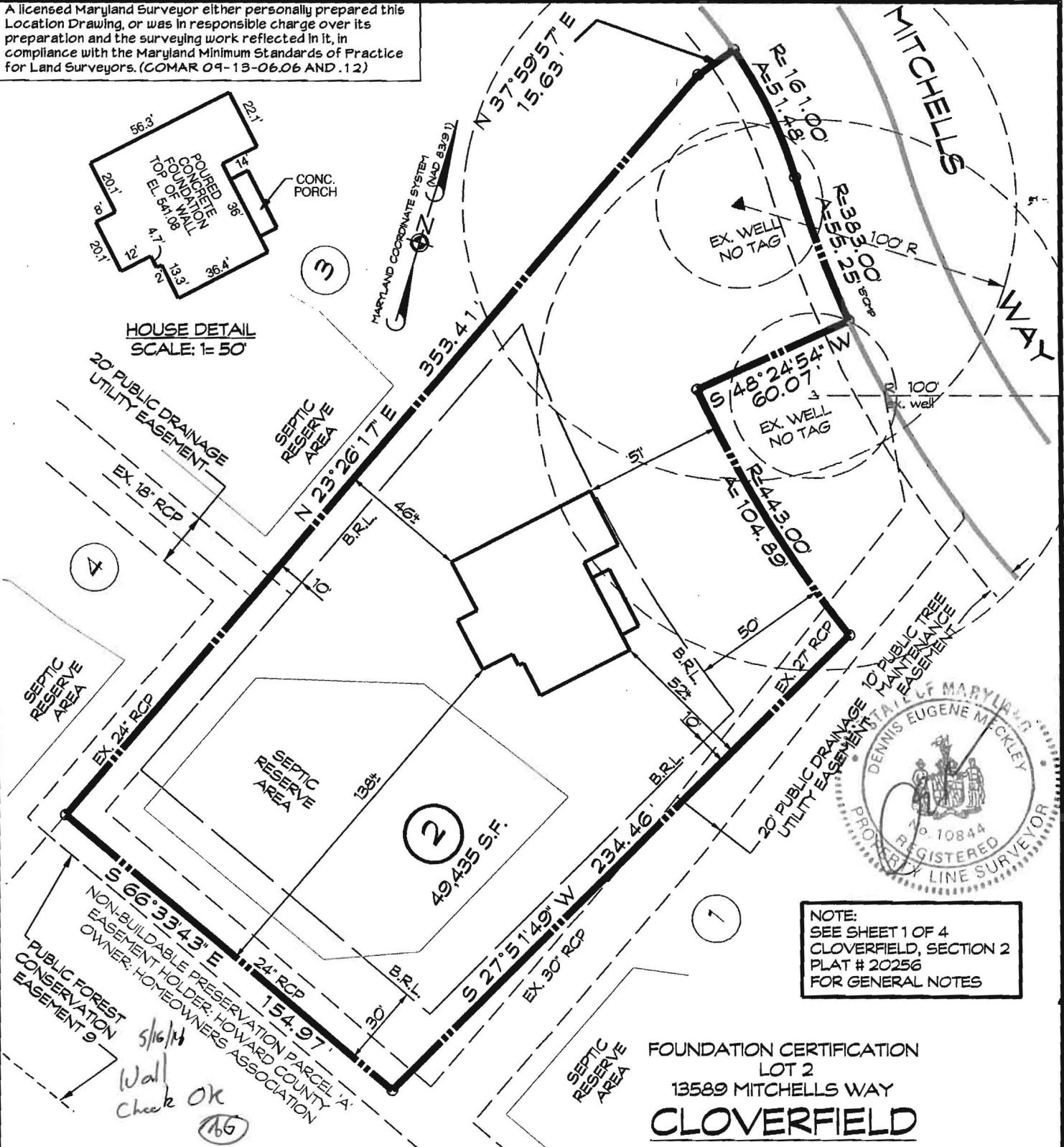
439 East Main Street Westminster, MD 21157-5539
(410) 848-1790 FAX (410) 848-1791

DRAWN BY:	KMB
DESIGN BY:	
REVIEW BY:	DEM
DATE:	02-26-14
SCALE:	1" = 50'
JOB NO:	2013039
SHEET:	1 OF 1

A licensed Maryland Surveyor either personally prepared this Location Drawing, or was in responsible charge over its preparation and the surveying work reflected in it, in compliance with the Maryland Minimum Standards of Practice for Land Surveyors. (COMAR 09-13-06.06 AND .12)



HOUSE DETAIL
SCALE: 1"=50'



NOTE:
SEE SHEET 1 OF 4
CLOVERFIELD, SECTION 2
PLAT # 20256
FOR GENERAL NOTES

FOUNDATION CERTIFICATION
LOT 2
13589 MITCHELLS WAY
CLOVERFIELD

SECTION II
3RD ELECTION DISTRICT • HOWARD COUNTY, MD.
TAX MAP: 15 BLOCK: 7 PARCEL: 119
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By: *Dennis E. Meckley* Date: *3/04/14*
Dennis E. Meckley Property Line Surveyor No. 10844
License expires March 24, 2016



439 East Main Street Westminster, MD 21157-5539
(410) 848-1790 FAX (410) 848-1791

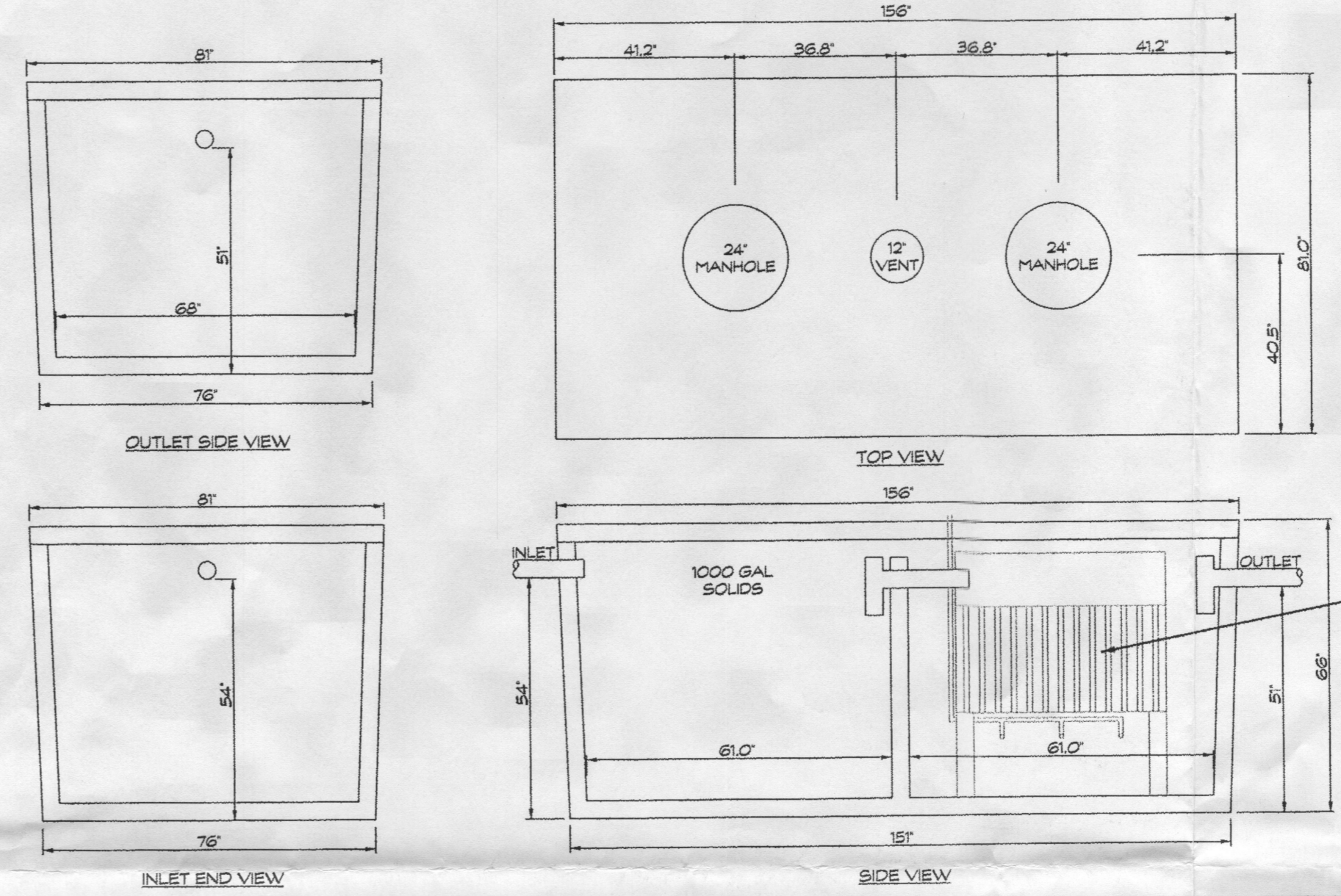
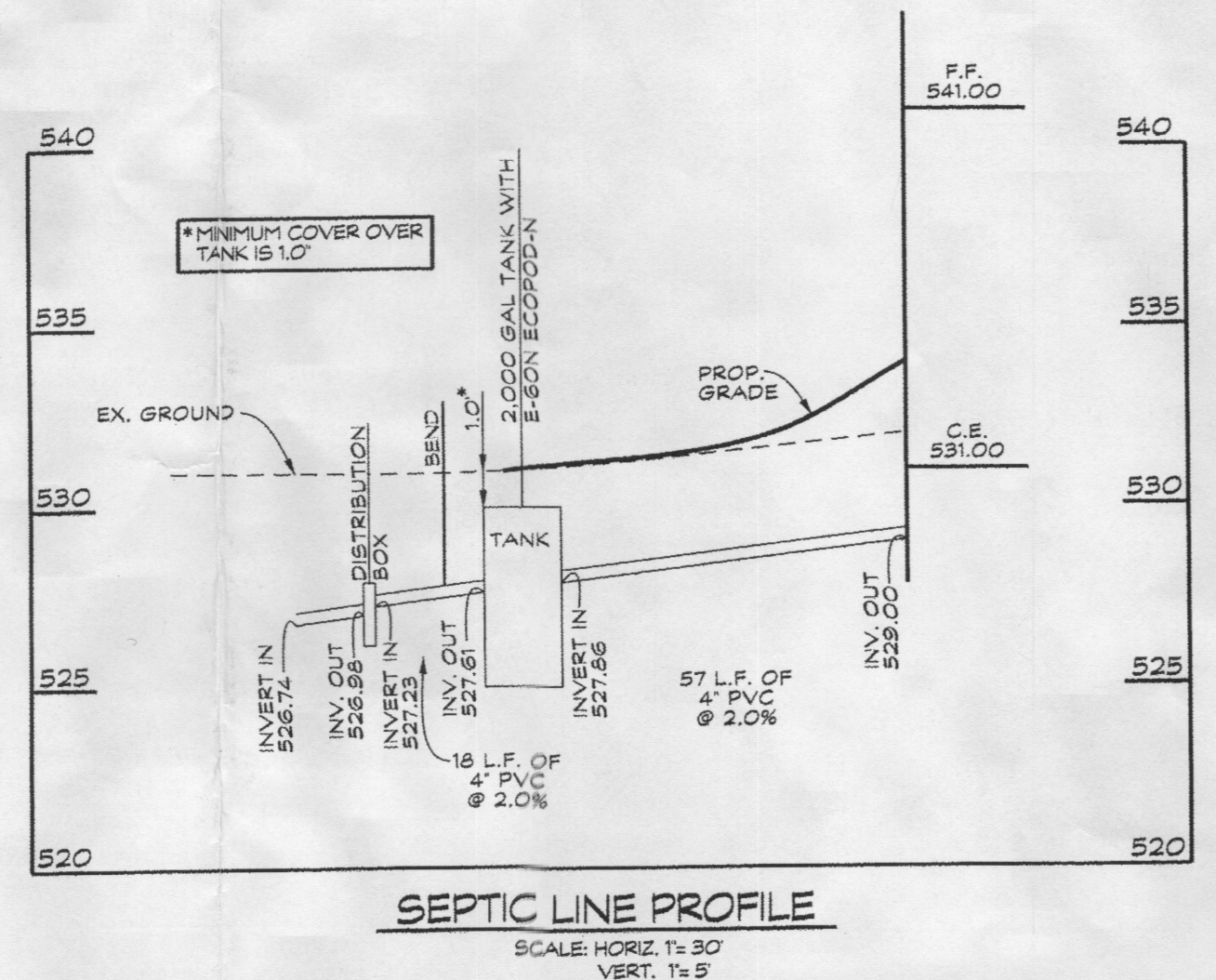
DRAWN BY:	KMB
DESIGN BY:	
REVIEW BY:	DEM
DATE:	02-26-14
SCALE:	1" = 50'
JOB NO:	2013039
SHEET:	1 OF 1

PROPERTY OF HOWARD COUNTY HEALTH DEPARTMENT
 RECEIVED
 DEC 8 2 2007

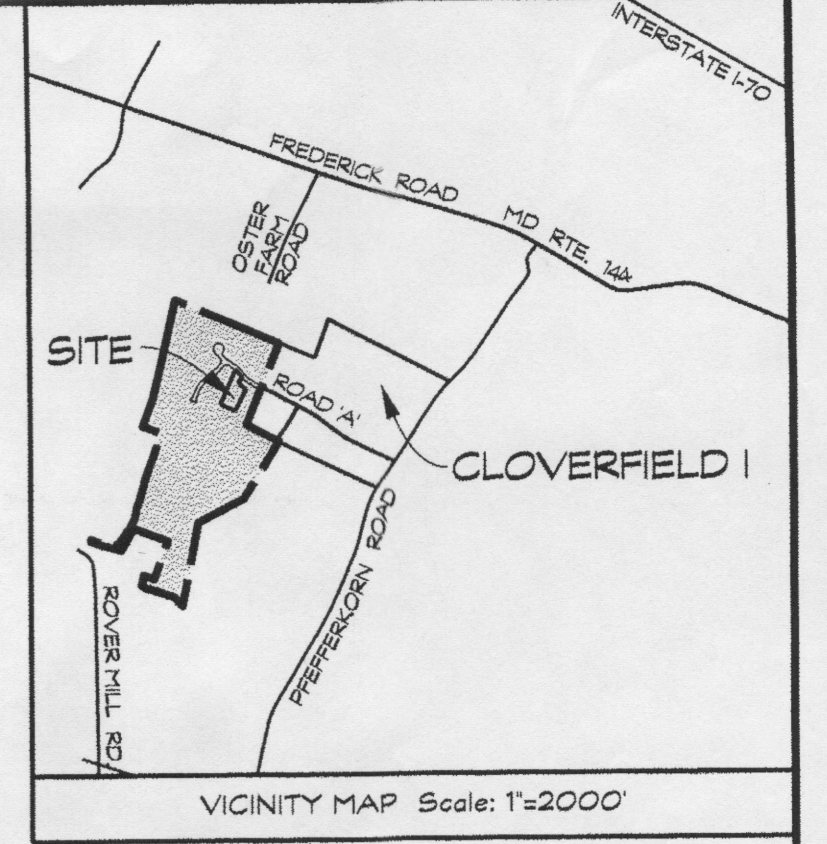


LOD DENOTES LIMIT OF DISTURBANCE
 TOTAL AREA = 25,992 S.F.

LEGEND:
 X SPOT ELEVATION
 2.5% FLOW PATH & SLOPE
 ▲ EX. WELL
 ● PERC TEST LOCATION



NOTE:
 ECOPOD-N SERIES MANUFACTURED BY DELTA ENVIRONMENTAL PRODUCTS



GENERAL NOTES

1. THE STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED OFF-SITE IN THE TWO MICROPOOL EXTENDED DETENTION FACILITIES AND GRASSED SWALES PER THE RECORDED PLAT NO. 20256.
2. THERE ARE NO STREAMS, PONDS, FLOODPLAINS, OR WETLANDS ON THIS LOT.
3. THERE ARE NO 20% OR GREATER SLOPES ON THIS LOT.
4. EXISTING WELL LOCATION IS FIELD LOCATED.

SEPTIC SYSTEM TRENCH DESIGN:

HOUSE SQUARE FOOTAGE: 2,824 S.F.
 PROPOSED NUMBER OF BEDROOMS = 4
 AVERAGE PERCOLATION TEST TIME = 4 MINS.
 APPLICATION RATE = 1.2 GPD/SQ. FT.
 DESIGN FLOW: 150 GALS x 4 BEDROOM = 600 GAL/DAY
 600 GAL/DAY / 1.2 GAL./DAY/SQ. FT. = 500 SQ. FT.
 500 SQ. FT. / 2 FT. = 250 LF. OF TRENCH
 250 L.F. x 0.57 = 142.5 L.F. OF TRENCH = 144 L.F.
 USE 2 - 72 L.F. OF TRENCH FOR EACH SYSTEM

NOTE:
 SEPTIC SYSTEM TRENCH DESIGN PROVIDED BY HOWARD COUNTY HEALTH DEPARTMENT.

NOTE:
 SEPTIC DISPOSAL AREA AND PERCOLATION TEST LOCATIONS ARE FROM REVISED PERCOLATION CERTIFICATION PLAN DATED OCTOBER 2007 AND SIGNED BY HOWARD COUNTY HEALTH DEPARTMENT OCTOBER 5, 2007.

OWNER/DEVELOPER
 SPRING MILL LLC
 P.O. BOX 417
 ELLICOTT CITY, MD 21041

BAT SITE PLAN NOTES

1. 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.
2. THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURERS SPECIFICATION IS 4 FEET.
3. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
4. THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
5. 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.
6. ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
7. AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OR HOWARD COUNTY.
8. THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.
9. THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON MANUFACTURERS SPECIFICATIONS.

SITE PLAN FOR BAT INSTALLATION
 SPRING MILL LLC
 13589 MITCHELL WAY
 TAX ACCOUNT NO.: 353397
 LOT 2
CLOVERFIELD- SECTION II
 3RD ELECTION DISTRICT * HOWARD COUNTY, MD.
 TAX MAP: 15 BLOCK: 7 PARCEL: 119

Engineers • Surveyors
CLSI
 Land Planning & Environmental Consultants
 www.clsi-civileng.com
 439 East Main Street Westminster, MD 21157-5539
 (410) 848-1790 FAX (410) 848-1791

Date	Revisions	Drawn By: BM
		Designed By: LDA
		Reviewed By: LDA
		Date: 11/11/13
		Scale: 1" = 30'
		Job No.: 2013039
		Sheet: 1 OF 1

Health County File No.