

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: 1/13/15 **ONSITE SEWAGE DISPOSAL SYSTEM** P 555705

INSTALLATION APPROVAL DATE: 6/22/2015 **PERMIT** A _____

CONSTRUCTION

PROPERTY ADDRESS: 2520 Goose Chase Way

SUBDIVISION: Cloverfield II LOT: 5 TAX ID: _____

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: _____

BAT UNIT MODEL: Ecopod E60N PUMP SIZE: _____ PUMP TANK CAPACITY: _____

DISTRIBUTION SYSTEM: GRAVITY LOW PRESSURE DOSED NUMBER OF BEDROOMS: _____

TRENCHES:	LINEAR FEET REQUIRED: 30 <u>113'</u>	INLET DEPTH: <u>3'</u>
	TRENCH WIDTH: <u>2'</u>	MAXIMUM BOTTOM DEPTH: <u>7'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10'</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:	<u>2x57' Trenches</u>	

ISSUED BY: Jeff Williams ISSUE DATE: 1/13/15 EXPIRATION DATE: 1/13/16

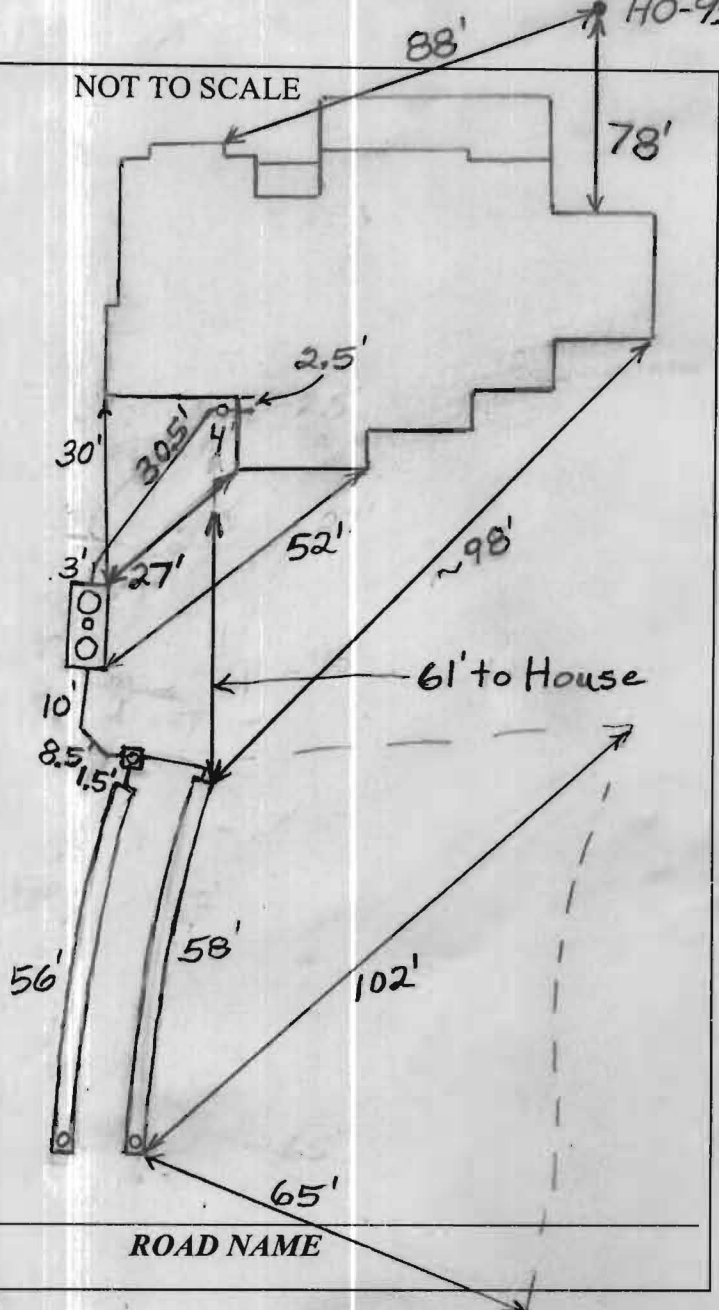
- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION**
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING**
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.**
- 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**
- 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
2'	3'	7'
NUMBER OF TRENCHES		2
TOTAL LENGTH		114'
ABSORPTION AREA		456
DISTRIBUTION BOX LEVEL		Levelers
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		Yes

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	Yes
MANUFACTURER	Babylon
CAPACITY	2000 EcoPod GAL
SEAM LOC	Top
TANK LID DEPTH	0.5'-1.5'
BAFFLES	Front
BAFFLE FILTER	N/A
MANHOLE LOC	Front + Rear
6" PORT LOC	Middle
WATERTIGHT TEST	No
SLOTTED	N/A
DATE ON LID	1/2/2015
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:

2/10/2015 Trenches laid out in highest approximate area of the septic easement. Tank location is staked. (BB)

INSTALLATION: 2/12/2015 Follow up not called in. System finished except for start-up approval of BAT unit from EcoPod inspector. (BB)

3/10/2015 Revisited site to check measurements. Need start-up approval from EcoPod inspector. (BB)

6/22/2015 Received approval from EcoPod representative. (BB)

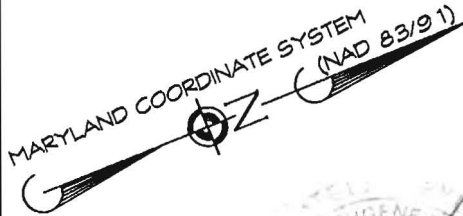
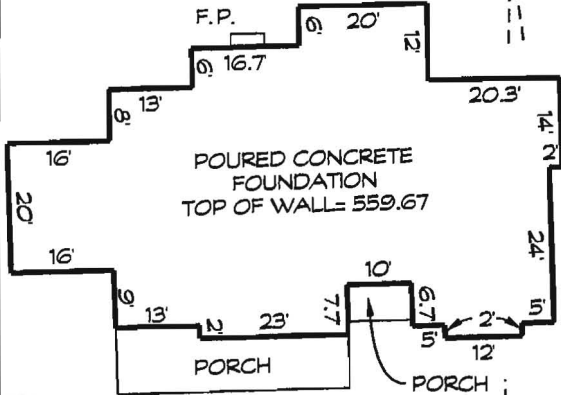
FINAL INSPECTOR B. Baker DATE OF APPROVAL 6/22/2015

CURVE DATA

NUMBER	RADIUS	ARC	DELTA	TAN	CHORD BRG.	DIST
C3	420.00	53.50	07°17'55"	26.79	N 26°22'21" E	53.47

LINE DATA

NUMBER	BEARING	DISTANCE
L4	S 67°43'24" W	7.07'
L5	N 67°16'36" W	7.00'
L6	S 22°43'24" W	9.01'



LEGEND:

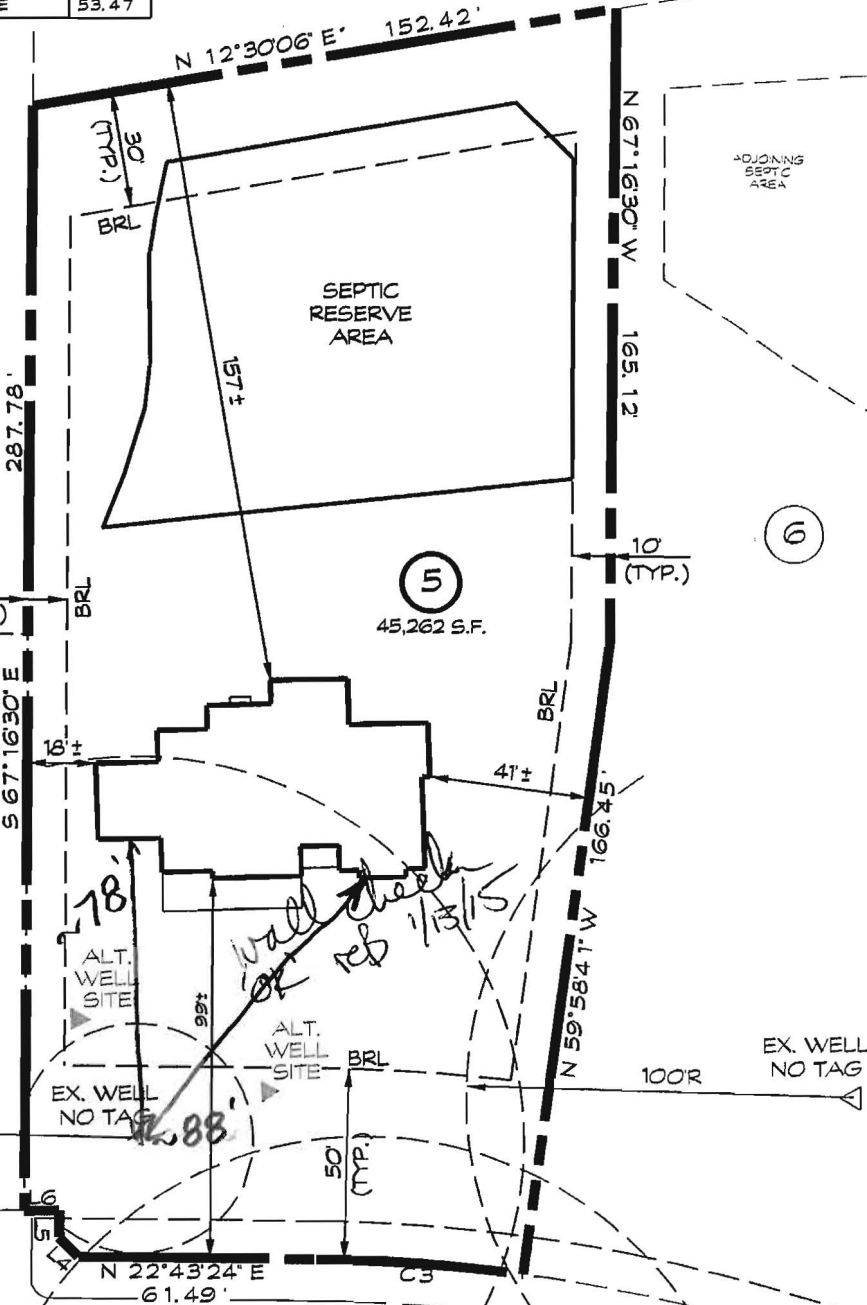
- ▲ EX. WELL
- ⊙ PERC TEST LOCATION

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

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: 11/20/14
Dennis E. Meckley Property Line Surveyor No. 10844
License expires March 29, 2016

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)



FOUNDATION CERTIFICATION
LOT 5
2520 GOOSE CHASE WAY
CLOVERFIELD

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



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

DRAWN BY:	MNM
DESIGN BY:	
REVIEW BY:	DEM
DATE:	11/12/14
SCALE:	1" = 50'
JOB NO:	2013039
SHEET:	1 OF 1

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

PHONE:
410-848-0393

FAX:
410-848-3551

Burial Vaults - Septic Tanks

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>12/15/15</u>	Serial Number: <u>E100N-60062CA</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:

SYSTEM OWNER:

INSTALLATION LOCATION:

2500 Goose Chase Way
West Friendship, MD 21794

DISTRIBUTOR:

Babylon Vault Company Inc.
925 Wakefield Valley Rd.
New Windsor, MD 21776

INSTALLER:

WJC Contractors
3033 Salem Bottom Rd.
Westminster, MD 21157

SERVICE COMPANY:

Babylon Vault Co. Inc.
Service Operators License Number: _____

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

Witness:

e3 Environmental LLC

302 715-0706 www.e3onsite.com

ECOPOD-N Completion Statement

Installation Information

Owners Name	Catonville Homes LLC	# of Bedrooms / GPD	600
Street	2520 Goose Chase Way	Repair	<input type="checkbox"/>
City	West Friendship	New Construction	<input checked="" type="checkbox"/>
State	MD		
Zip	21794		

Installation Company

Company	WTC Contractors	Installed Date	2/15/15
Certified Installer		Startup Date	6/18/15
Street	3033 Salem Bottom Rd.		
City	Westminster		
State	MD		
Zip	21157		

ECOPOD-N

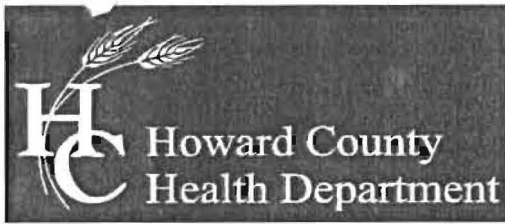
Model #	Serial #
E50 <input type="checkbox"/>	
E60 <input checked="" type="checkbox"/>	ELCON-62262 CA
E75 <input type="checkbox"/>	
E100 <input type="checkbox"/>	
E150 <input type="checkbox"/>	

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.
 Signature Steven R Koontz
 Printed Name Steven R Koontz

Date 6/18/15



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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 2520 Goose Chase Way, W. Friendship, MD 21794 (Lot 5), 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 00664.

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.

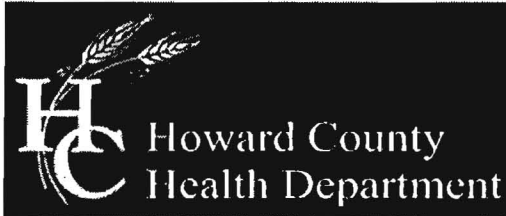
IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.

Spring Hill LLC
[Signature] 10/4/13
Owner James K. Moxley, III Date

Owner Date

[Signature] 11/4/2013
Howard County Health Department

LR - Agreement Recording Fee 20.00
Grantor/Grantee Name: HCHD
Reference/Control #: 173
LR - Agreement Surcharge 40.00
LR - Additional Recording Fee 0.00
- linked 0.00
SubTotal: 60.00
Total: 900.00
#2168213-36 02:53 CC13-CH
11/04/2013
#2168213 CC0503 - Howard Co
Columbia/CC05.03.03 - Register
03 495



Bureau of Environmental Health
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A/P

TP# 21
 Br Org 1m 0-16"
 Reddish SILT 16"-30"
 LT TAN SAND (FINE) 30"-12'

TP 24
 Br Org 1m 0-16"
 Red/Br SILT 16"-3'
 Rock Fraggs 30-40%
 TAN SAND (FINE) 3'-10'
 Rock Fraggs 30-40%
 REFUSAL @ 10'

LOT # 5

TP 25
 Br Org 1m 0-16"
 Red SILT 16"-30'
 LT TAN SAND (FINE) 30"-12'

TP # 22
 Br Org 1m 0-16"
 Red/Br SILT 16"-3'
 TAN SAND (FINE) 3'-11'
 Rock From 3'-11'
 30-40% HAND BOTTOM

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
10/27/04	# 21	5' / 12'	9:34	9:38	9:43	5 min	P
	# 22	11'	VISUAL				F
	# 23	13'	VISUAL				P
	# 24	10'	VISUAL				F
	# 25	3' / 12'	9:24	9:26:20	9:29	2:40 min.	P
	# 25A	3' / 13'	10:54:30	10:59	11:06	7 min	P

TP # 23
 Br Org 1m 0-16"
 Br TAN SILT 16"-2'-6"
 LT TAN SAND (FINE)
 Rock Fraggs 10-20% @ 2'5"

TP 25A
 Br Org 1m 0-16"
 Red/Br SILT 16"-3'
 TAN SAND (FINE) 3'-13'
 REPLACEMENT TEST PIT.

REMARKS * NOTE: SRA TO BE REVISED - TP 25A IS SUBSTITUTE FOR FAILED T.P.

SANITARIAN R. Sheehy BACKHOE AEC OTHERS _____

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

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

Williams, Jeffrey

From: Williams, Jeffrey
Sent: Friday, October 10, 2014 12:28 PM
To: 'Rob Scranton'
Cc: Linda D. Alexander (lalexander@clsi-civileng.com); Dennis Meckley (dmeckley@clsi-civileng.com); Chip Bean; Pam Walter
Subject: RE: Cloverfield II Lot 5
Attachments: O&M agreement_revised 8.8.14.pdf

We received a revised BAT plan on 9/29. We approved that on 10/8. What I don't see in the file is a copy of floorplans. I know Dana asked for them on 9/19/14. I haven't had a chance to meet with Dana since 10/8 to ask if she had received those in an email. If you would like to forward them to me, that is fine.

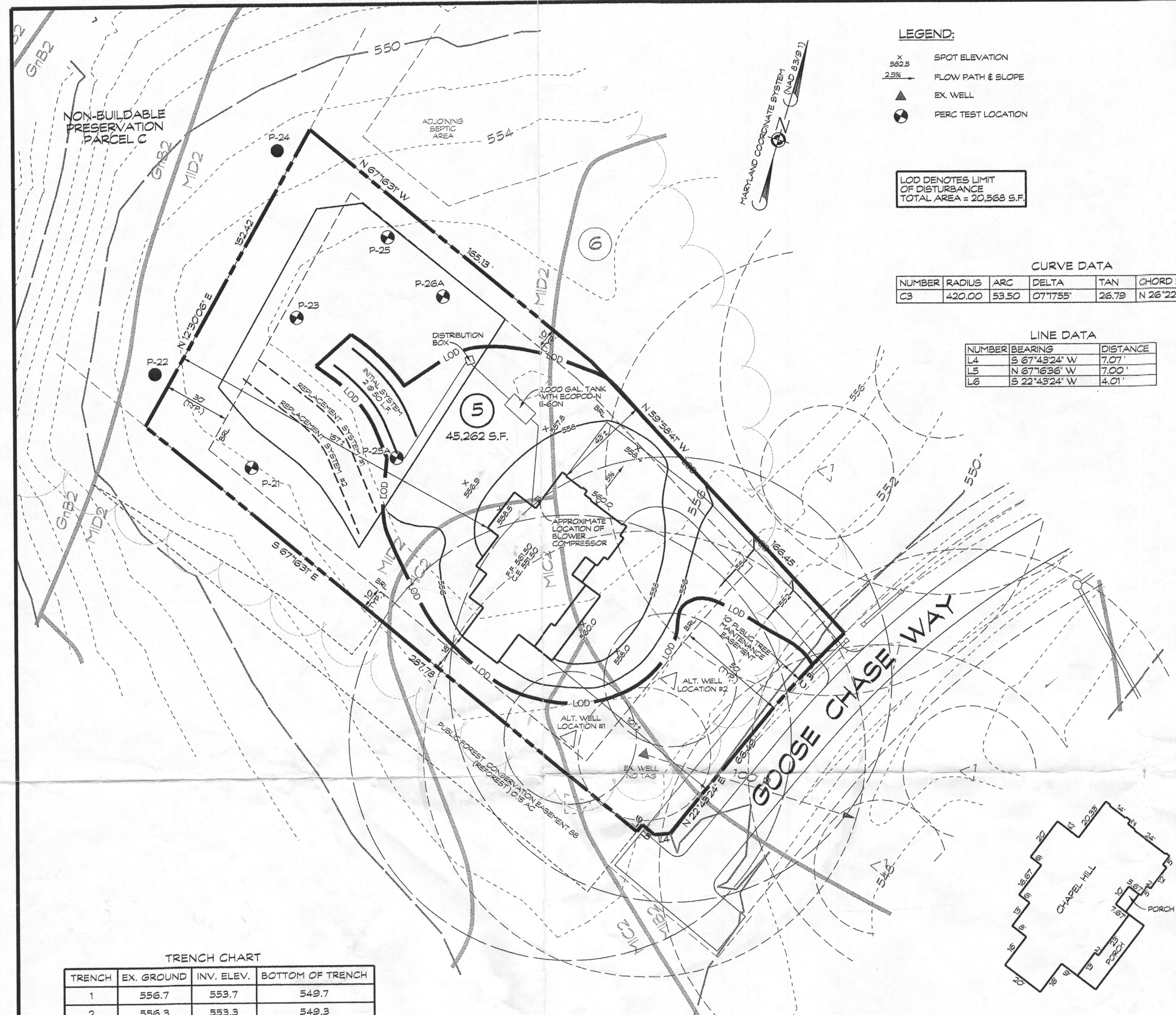
Also, I am attaching a copy of an updated O&M agreement. Based on builder feedback, we have added a line for a buyer's signature. This property had an agreement signed last year, so we will just ask for the new agreement to be filled out, signed by both the builder and buyer and returned to us prior to septic permit issuance. No need to record the modified agreement as long as the original was recorded (I have signed copy, but not a recorded copy of the old one). If you have proof of recordation of the older one, please forward that to me as well. Thanks
Jeff

From: Rob Scranton [<mailto:rscranton@catonsvillehomes.com>]
Sent: Friday, October 10, 2014 11:55 AM
To: Williams, Jeffrey
Cc: Linda D. Alexander (lalexander@clsi-civileng.com); Dennis Meckley (dmeckley@clsi-civileng.com); Chip Bean; Pam Walter
Subject: Cloverfield II Lot 5

Jeff,

Can you tell us what the hold up is on Cloverfield II Lot 5 permit is?
We responded to all of the comments some time ago!

Rob Scranton
Catonsville Homes LLC
11175 Stratfield Court
Marriottsville, MD 21104



LEGEND:

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

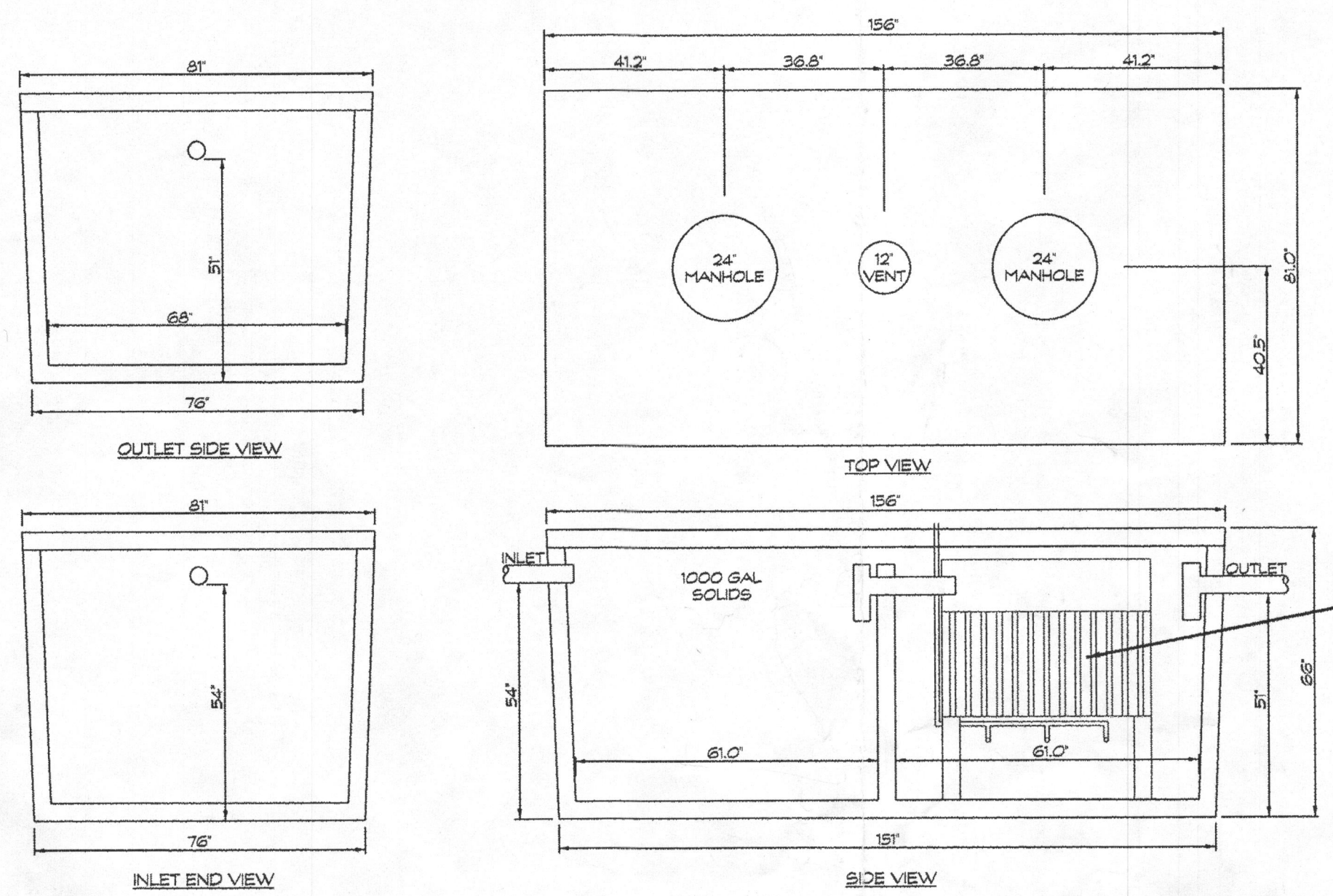
LOD DENOTES LIMIT OF DISTURBANCE TOTAL AREA = 20,568 S.F.

CURVE DATA

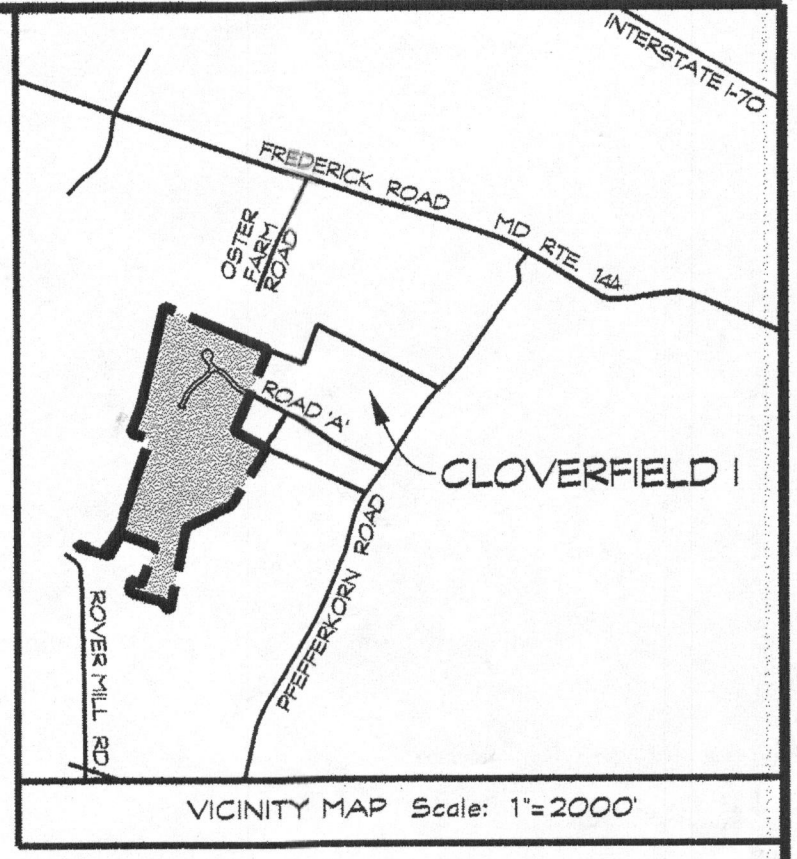
NUMBER	RADIUS	ARC	DELTA	TAN	CHORD BRG.	DIST
C3	420.00	53.50	07°17'55"	26.79	N 26°22'21" E	53.47

LINE DATA

NUMBER	BEARING	DISTANCE
L4	S 67°45'24" W	7.07'
L5	N 67°16'56" W	7.00'
L6	S 22°43'24" W	4.01'



BAT TANK DETAIL
 VAULT SPECIFICATIONS PROVIDED BY BABYLON VAULT COMPANY
 SCALE 3/8" = 1'



CONTRACTOR TO INSTALL ECOPOD-N SERIES SEWAGE TREATMENT PLANT IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS

E60

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: 3,239 S.F.
 PROPOSED NUMBER OF BEDROOMS = 4
 AVERAGE PERCOLATION TEST TIME = < 5 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 L.F. OF TRENCH
 250 L.F. x 0.36 = 142.5 L.F. OF TRENCH = 90 L.F.
 USE 2 - 50 L.F. OF TRENCH FOR INITIAL SYSTEM
 USE 1 - 90 L.F. OF TRENCH FOR EACH REPLACEMENT SYSTEM

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

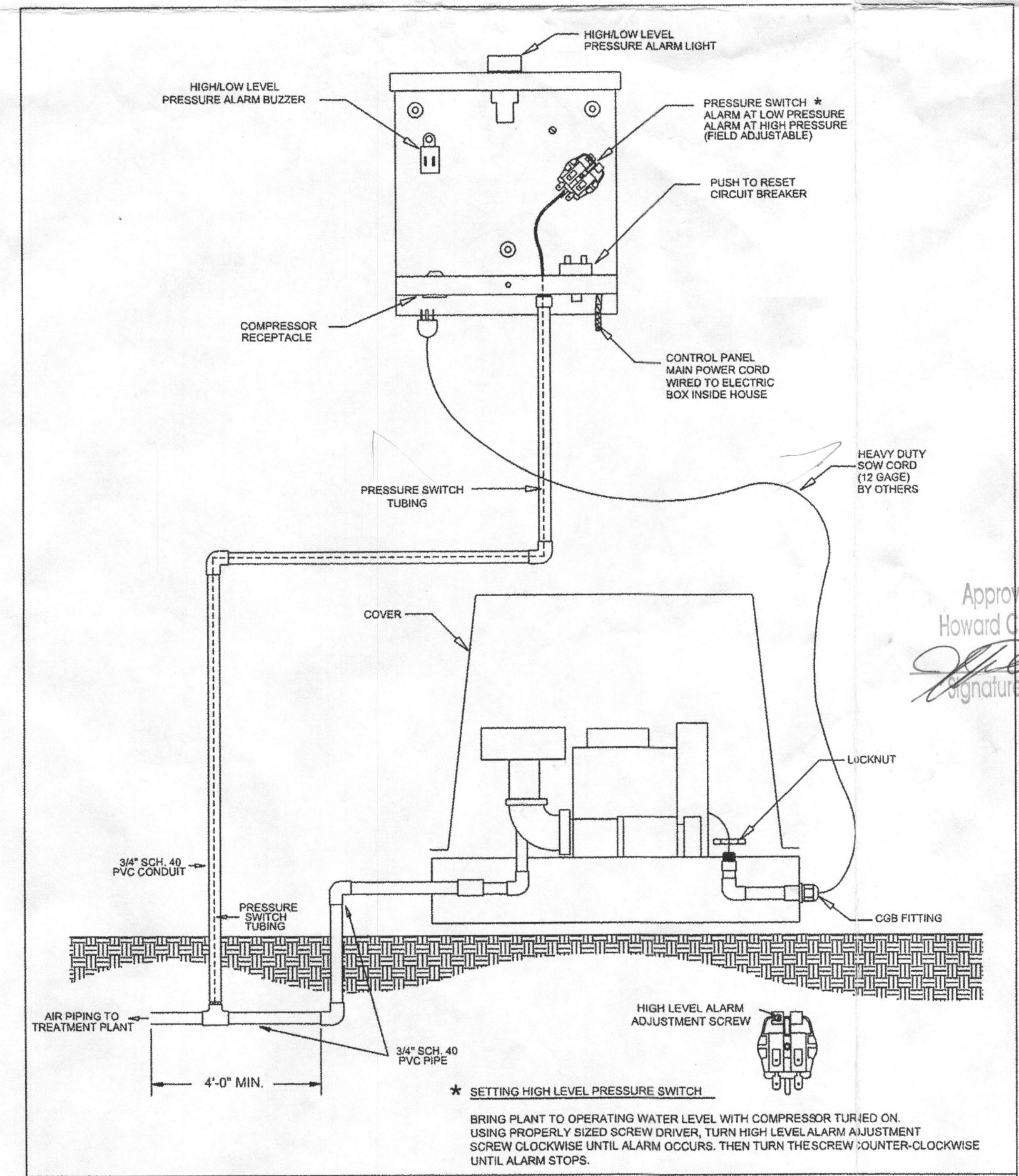
Approved Septic System Plan
 Howard County Health Department
 Signature: [Signature]
 Date: 10/14/14

SITE PLAN AND PLOT PLAN FOR BAT INSTALLATION
 SPRING MILL LLC
 2520 GOOSE CHASE WAY
 TAX ACCOUNT NO.: 353427
 LOT 5
CLOVERFIELD- SECTION II
 3RD ELECTION DISTRICT · HOWARD COUNTY, MD.
 TAX MAP: 15 BLOCK: 7 PARCEL: 119



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

Linda D. Alexander
 Qualified Professional



CONTROL PANEL CONNECTIONS USING REGENERATIVE SERIES COMPRESSORS

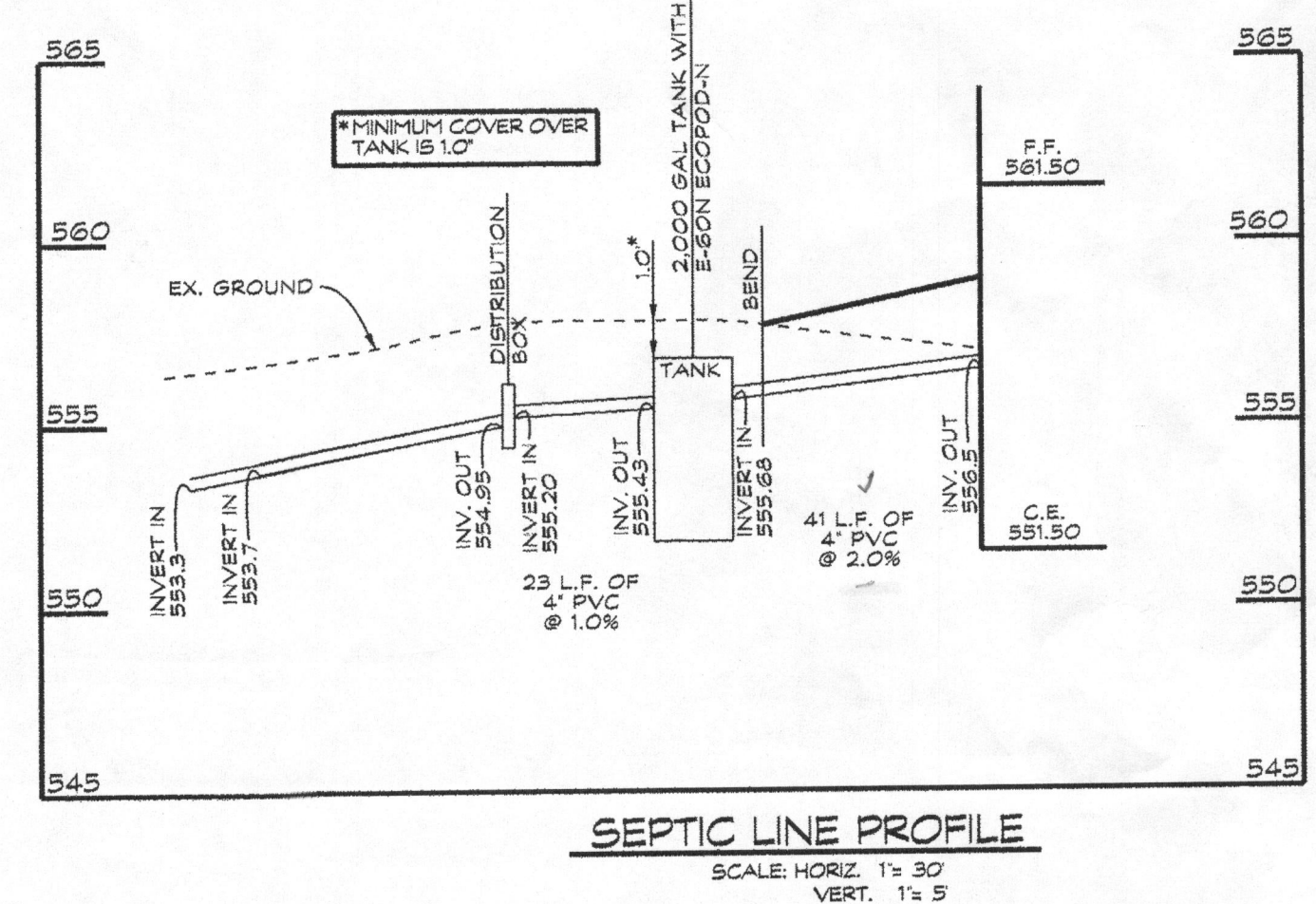
DWN BY: C.RACHAL	DATE: 05/18/09	SCALE: N.T.S.	DWG. NO.: CP Con Regen
------------------	----------------	---------------	------------------------

BLOWER DETAIL:

DELTA ENVIRONMENTAL PRODUCTS
 P. O. BOX 969 DENHAM SPRINGS, LA 70727

TRENCH CHART

TRENCH	EX. GROUND	INV. ELEV.	BOTTOM OF TRENCH
1	556.7	553.7	549.7
2	556.3	553.3	549.3



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 MANUFACTURER'S 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.
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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 MANUFACTURER'S SPECIFICATIONS.



LEGEND:
 x 892.5 SPOT ELEVATION
 25% FLOW PATH & SLOPE
 ▲ EX. WELL
 ● PERC TEST LOCATION

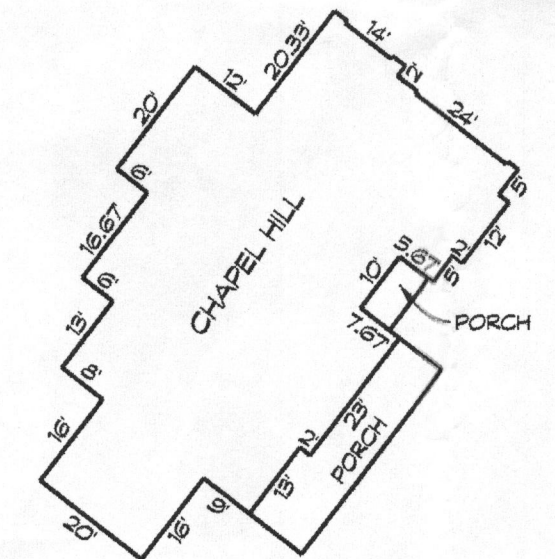
LOD DENOTES LIMIT OF DISTURBANCE
 TOTAL AREA = 20,568 S.F.

CURVE DATA

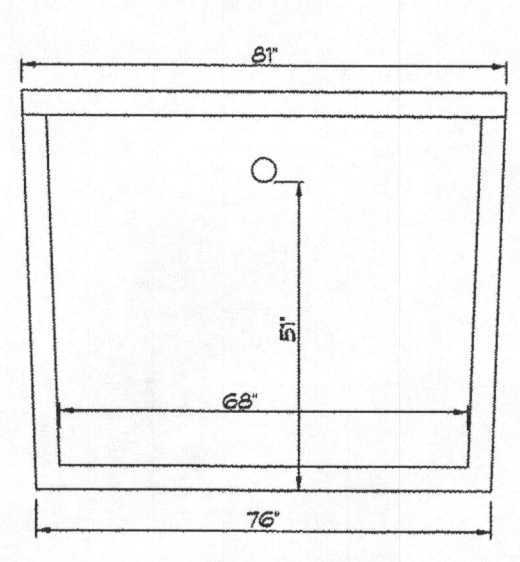
NUMBER	RADIUS	ARC	DELTA	TAN	CHORD BRG.	DIST
C3	420.00	53.50	071735°	26.79	N 26°22'21" E	53.47

LINE DATA

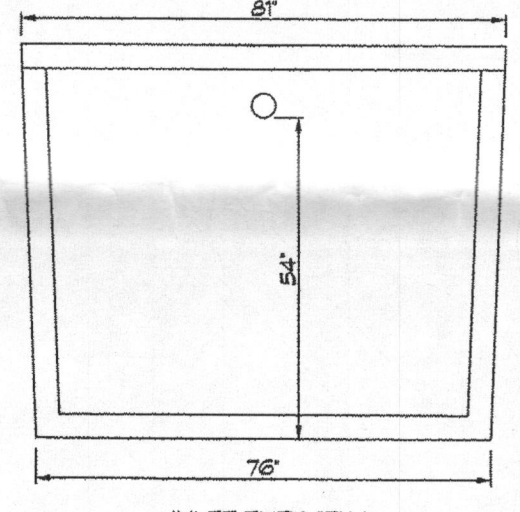
NUMBER	BEARING	DISTANCE
L4	S 67°43'24" W	7.07'
L5	N 67°16'36" W	7.00'
L6	S 22°43'24" W	4.01'



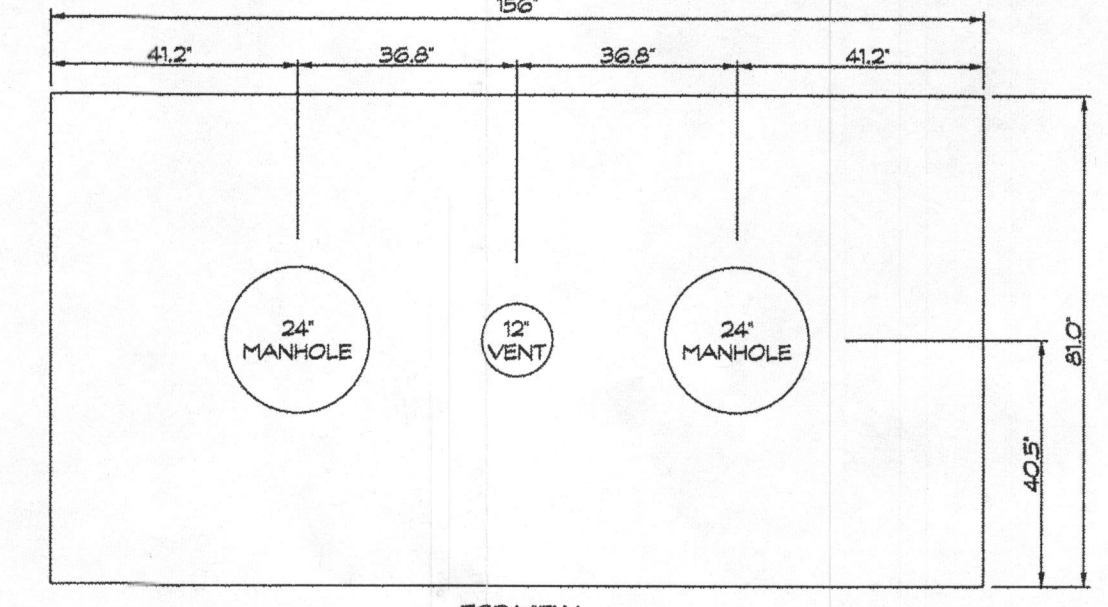
HOUSE PLAN
 SCALE: 1/8" = 3'-0"



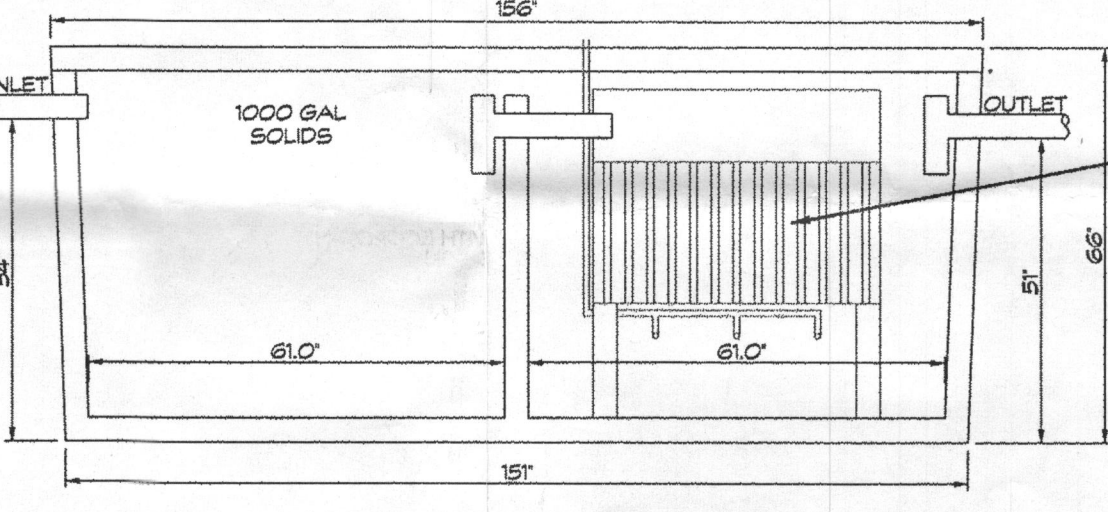
OUTLET SIDE VIEW



INLET END VIEW



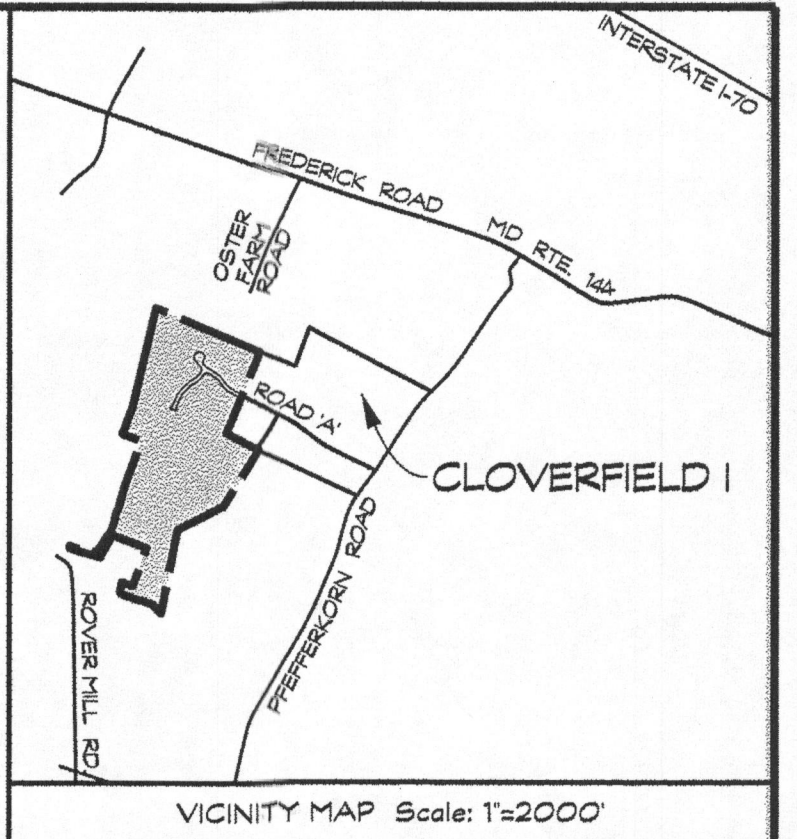
TOP VIEW



SIDE VIEW

BAT TANK DETAIL
 VAULT SPECIFICATIONS PROVIDED BY BABYLON VAULT COMPANY
 SCALE: 3/8" = 1'

NOTE:
 ECOPOD-N SERIES MANUFACTURED BY DELTA ENVIRONMENTAL PRODUCTS



VICINITY MAP Scale: 1"=2000'

CONTRACTOR TO INSTALL ECOPOD-N SERIES ECOP-N TREATMENT PLANT IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS

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: 3,239 S.F.
 PROPOSED NUMBER OF BEDROOMS = 4
 AVERAGE PERCOLATION TEST TIME = < 5 MIN.
 APPLICATION RATE = 1.2 GPD/SQ. FT.
 DESIGN FLOW: 150 GALS x 4 BEDROOMS = 600 GAL/DAY
 600 GAL/DAY / 1.2 GAL / DAY/SQ. FT. = 500 SQ. FT.
 500 SQ. FT. / 2 FT. = 250 L.F. OF TRENCH
 250 L.F. x 0.36 = 142.5 L.F. OF TRENCH = 90 L.F.
 USE 2 - 50 L.F. OF TRENCH FOR INITIAL SYSTEM
 USE 1 - 90 L.F. OF TRENCH FOR EACH REPLACEMENT 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

SITE PLAN AND PLOT PLAN FOR BAT INSTALLATION
 SPRING MILL LLC
 2520 GOOSE CHASE WAY
 TAX ACCOUNT NO.: 353427
 LOT 5
CLOVERFIELD- SECTION II
 3RD ELECTION DISTRICT * HOWARD COUNTY, MD.
 TAX MAP: 15 BLOCK: 7 PARCEL: 119



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

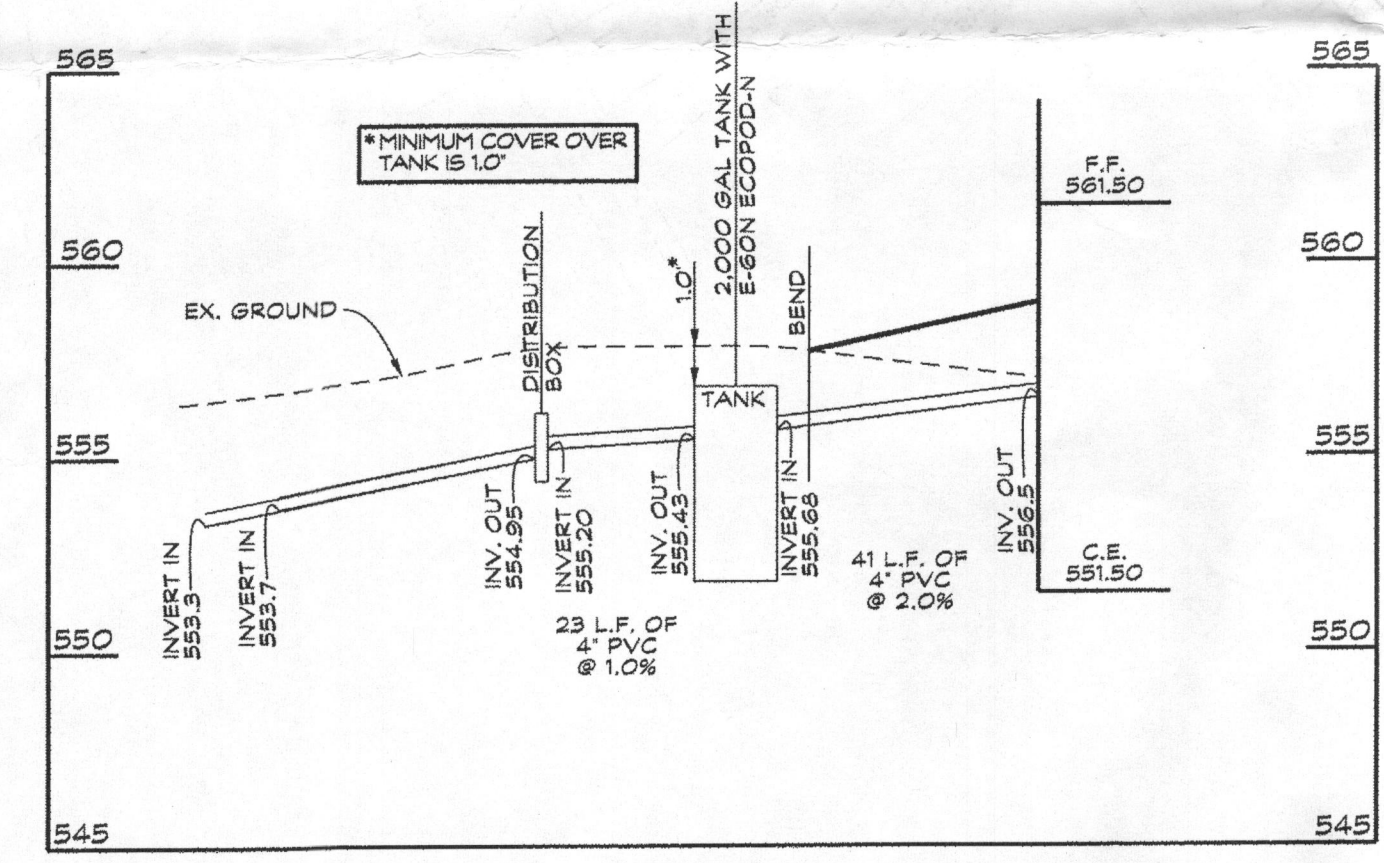
Date	Revisions	Drawn By: BHM
8/21/14	REVISED SEPTIC TANK & DISTRIBUTION BOX LOCATION	Designed By: LDA
8/25/14	REVISED SEPTIC TANK LOCATION	Reviewed By: LDA
		Date: 8/12/14
		Scale: 1" = 30'
		Job No.: 2013039
		Sheet: 1 OF 1

TRENCH CHART

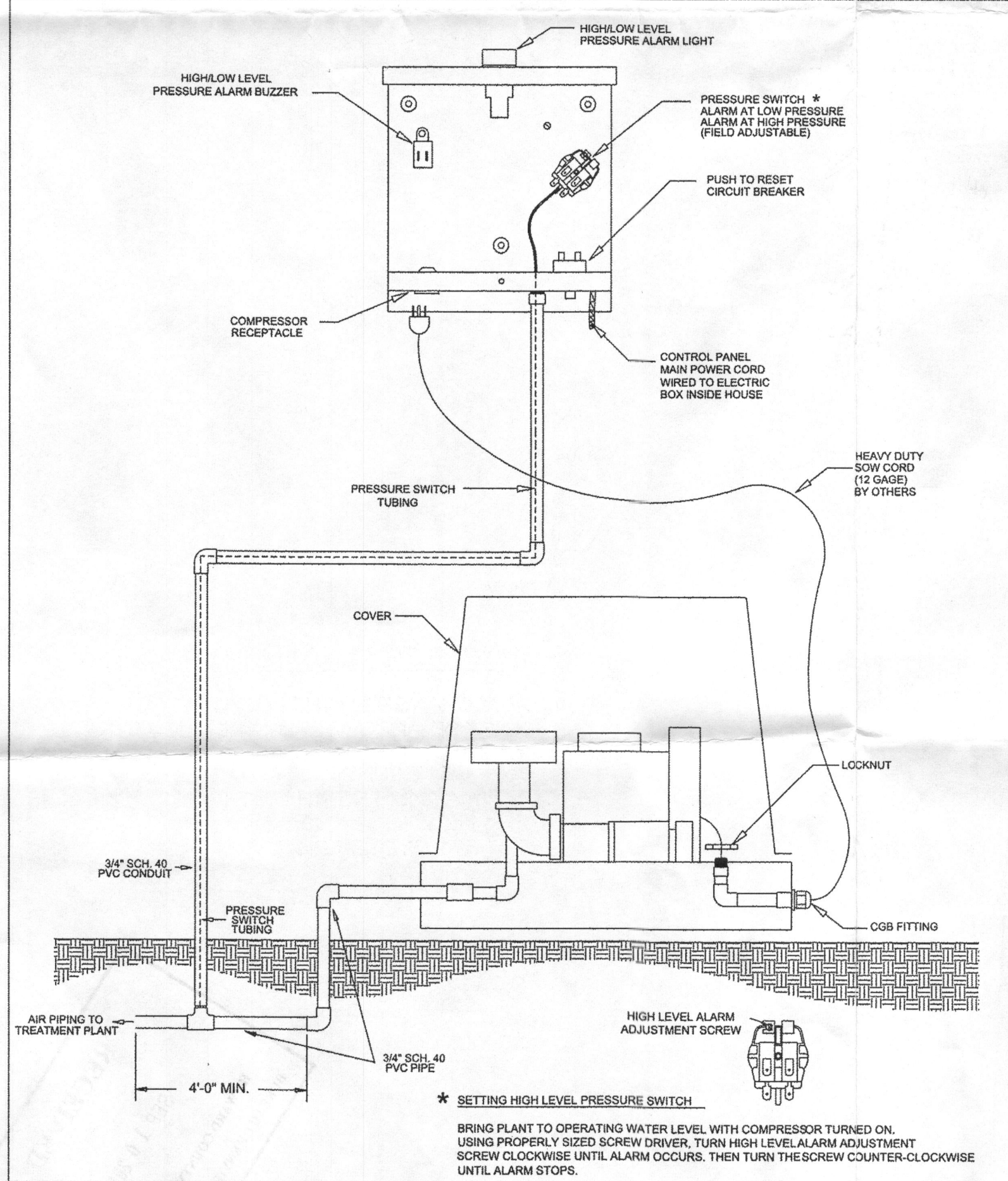
TRENCH	EX. GROUND	INV. ELEV.	BOTTOM OF TRENCH
1	556.7	553.7	549.7
2	556.3	553.3	549.3

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.
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SEPTIC LINE PROFILE
 SCALE: HORIZ. 1/8" = 30'
 VERT. 1/8" = 5'



CONTROL PANEL CONNECTIONS USING REGENERATIVE SERIES COMPRESSORS

DWN BY: C. RACHAL DATE: 05/18/09 SCALE: N.T.S. DWG. NO.: CP Con Regen

BLOWER DETAIL:

DELTA ENVIRONMENTAL PRODUCTS
 P. O. BOX 969 DENHAM SPRINGS, LA 70727