

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

P **557480**
 A _____

RECEIPT DATE: 12/4/15 **ONSITE SEWAGE DISPOSAL SYSTEM**
 APPROVAL DATE: 4/12/2016 **PERMIT: CONSTRUCTION**
 PROPERTY ADDRESS: 13590 Mitchells Way

SUBDIVISION: Cloverfield II LOT: 14 TAX ID: _____
 CONTRACTOR: WTC Contractors EMAIL: _____
 CONTRACTOR ADDRESS: 3033 Salem Bottom Road, Westminster, MD 21157 PHONE: 443-458-7024

CONTRACTOR CERTIFIED FOR BAT INSTALLATION: MDE MANUFACTURER:

PROPERTY OWNER: Spring Mill LLC EMAIL: rmoxley@sdcgrou.com
 OWNER ADDRESS: 8480 Baltimore National Pike, Ellicott City, 21041 P.O. Box 417 PHONE: 410-465-4244

BAT UNIT MODEL: Norweco TNTLP-600 PUMP SIZE: 0.3hp PUMP TANK CAPACITY: 1500

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: _____ DATE RECORDED: _____

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: 1.2 **0.8**

TRENCHES:	LINEAR FEET REQUIRED: <u>126</u> <u>165'</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</u> <u>2'</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u> <u>9'</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.**

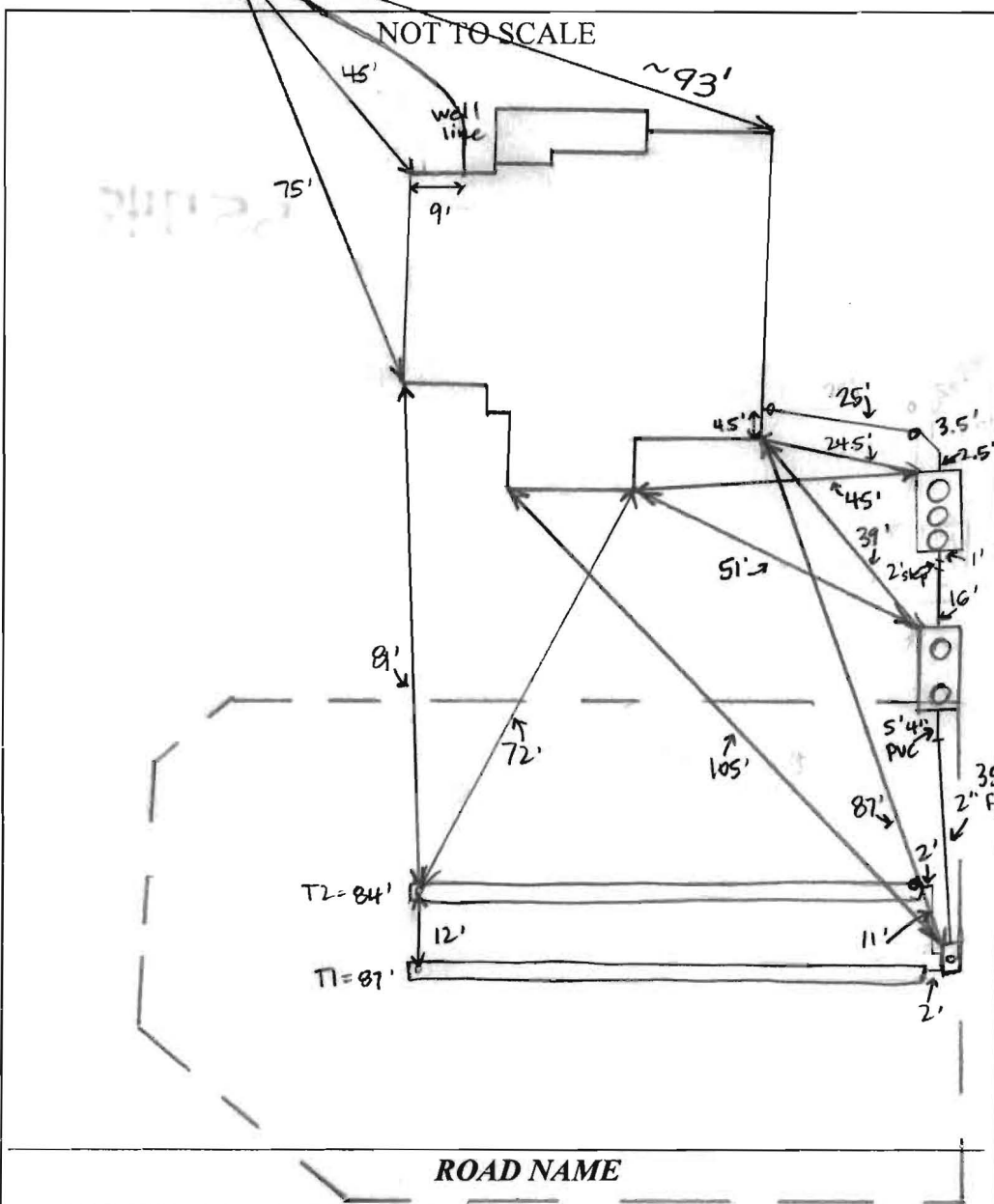
NOTES: Install cleanout near foundation. Remove planted maple trees from SDA.
2 x 83' trenches

ISSUED BY: Robert Bricker ISSUE DATE: 12/4/15 EXPIRATION DATE: 12/4/16

- 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 DOWNGRADE FROM ANY WATER WELL**
- NOTE: **MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS**
- NOTE: **AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM**
 ELECTRICAL PERMIT ISSUED E _____
- 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.

10-95-1345



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
2'	3'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		171'
ABSORPTION AREA		353' + SIDEWALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		ELBOW
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	YES
MANUFACTURER	BACKRIVER / NORWECO
CAPACITY	1300 GAL
SEAM LOC	TDP
TANK LID DEPTH	1-2'
BAFFLES	NO
BAFFLE FILTER	NONE
MANHOLE LOC	FRONT, MID, REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	NO
DATE ON LID	10/9/15
PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	BACKRIVER
CAPACITY	1500 GAL
SEAM LOC	TDP
TANK LID DEPTH	1'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT - REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	NO
DATE ON LID	10-13-15

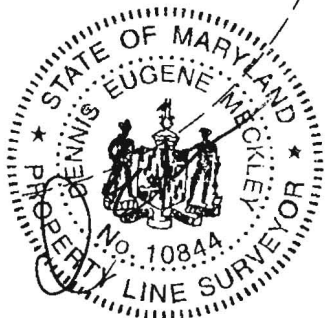
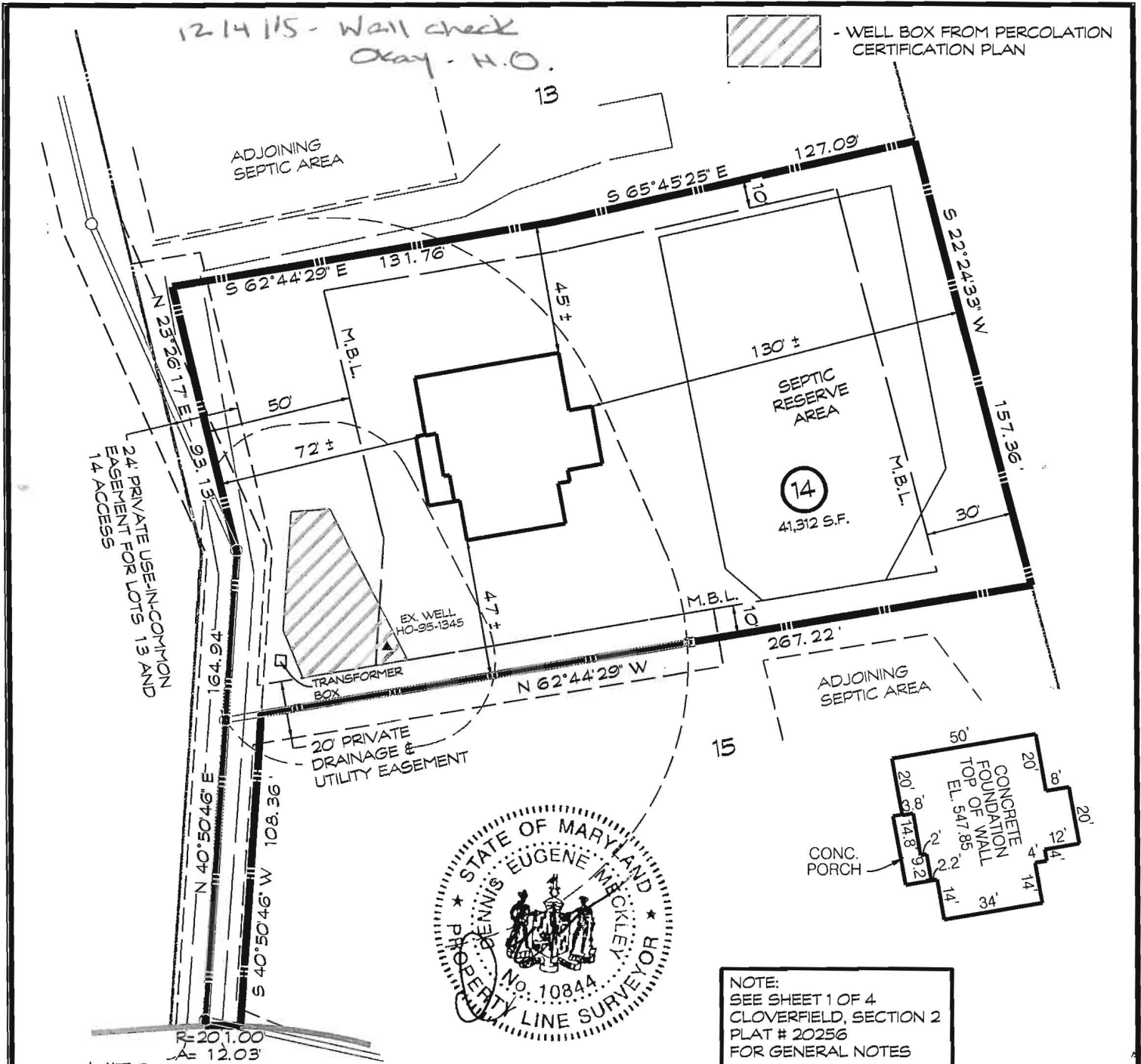
PRE-CONSTRUCTION:

12/4/15 Met WTC on site for layout. Rick Scranton from Catonsville Homes also on site. Tank and SDA stakes present. Woods at the top of SDA - put initial system in area of first replacement on BAT plan. Still enough area in top part of SDA for a replacement even with a 2BR addition. Move BAT + pump tanks away from current flow of surface water, ~ 5' out for each tank, WTC will fill in channel. (S)

INSTALLATION:

12/7/15 BAT tank set. Digging hole for pump tank. House connection made. Outlet end of BAT backfilled with stone. On site while pump tank was set - no visible cracks on sides or bottom. (S) 12/8/15 Trenches complete. T1 left open at ends, T2 left open. 2.5-3' to stone, 2' wide Swale between BAT and pump tank filled in with dirt. Need BAT startup certification - pump and alarm test. (S) 12/11/15 BAT startup certification received. (S) 4/12/2016 Pump and alarm working. (BB)

FINAL INSPECTOR B. Baker DATE OF APPROVAL 4/12/2016



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

MITCHELL'S WAY

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: *Eugene Meckley* Date: *12/3/15*
Dennis E. Meckley Property Line Surveyor No. 10844
License expires March 29, 2016

A licensed Maryland Surveyor either personally prepared this Foundation Certification, 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 14
13590 MITCHELLS WAY
CLOVERFIELD
SECTION II

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

	DRAWN BY:	KMB
	DESIGN BY:	
	REVIEW BY:	DEM
	DATE:	09-09-15
	SCALE:	1" = 50'
	JOB NO:	2013039
SHEET:	1 OF 1	

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

Back River Pre-Cast, LLC

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

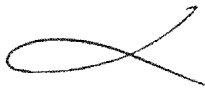
Letter of Certification

This is to certify that the Norweco Singulair TNT 600 GPD Septic Tank installed at 13590 Mitchells Way, West Friendship, MD 21794 December 07, 2015 was installed according to the manufacture's specifications.

Installer: Walter Coon

Property Owner: Catonsville Homes, LLC

Permit #



MATTHEW GECKLE

Vice-President



Bureau of Environmental Health

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

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

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

THIS AGREEMENT is made this 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 13590 Mitchells Way, W. Friendship, MD 21794 (Lot 14), 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 Mill LLC
James R. Moxley, III 10/4/13
Owner James R. Moxley, III Date

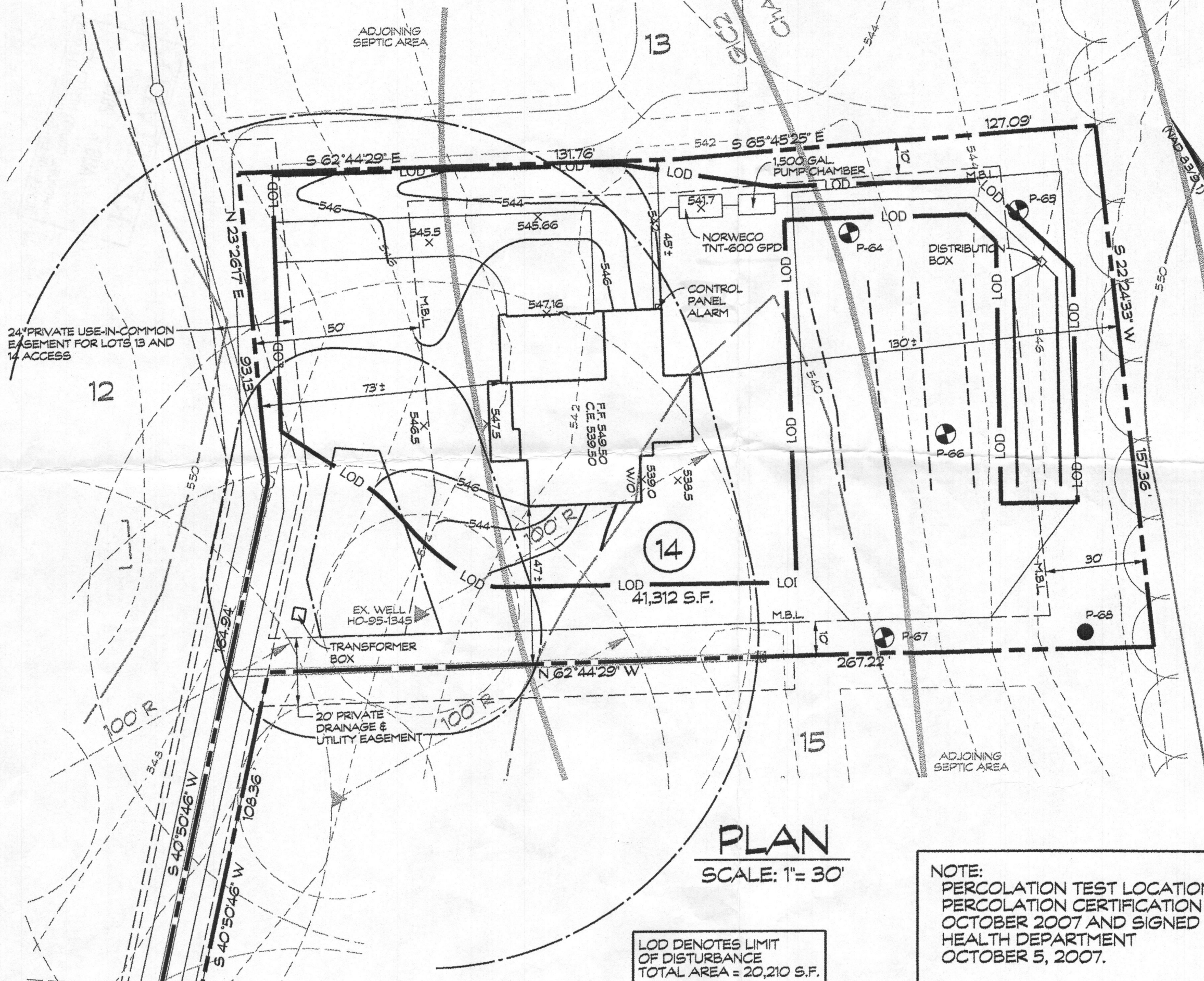
Owner Date

Bert Rifson 11/4/2013
Howard County Health Department

LR - Agreement Recording Fee 20.00
Grantor/Grantee Name: HCHD
Reference/Control #: 189
LR - Agreement Surcharge 40.00
LR - Additional Recording Fee 0.00
- linked
Subtotal: 60.00
Total: 902.00
#2168213-16 02:53 CC13-CH
11/04/2013
#2168213 CC0503 - Howard Co
Columbia/CC05.03.03 - Register
03 495

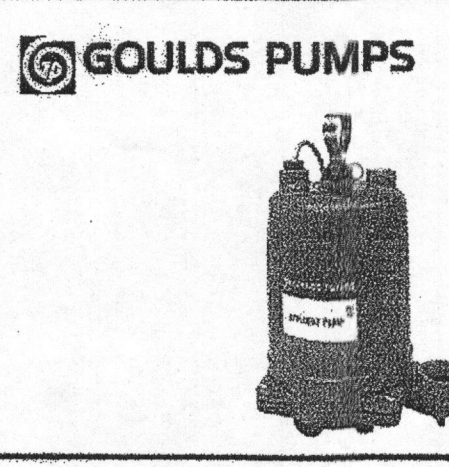
NUMBER	RADIUS	ARC	DELTA	TAN	CHORD BRG.	DIST
C13	201.00	12.03	03°25'41"	6.01	N 52°46'08" W	12.02

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



LOD DENOTES LIMIT OF DISTURBANCE TOTAL AREA = 20,210 S.F.

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



Submersible Effluent Pump
WE Series
 PROSURANCE AVAILABLE FOR RESIDENTIAL APPLICATIONS.

APPLICATIONS
 Specifically designed for the following uses:
 • Homes
 • Farms
 • Trailer courts
 • Schools
 • Hospitals
 • Industry
 • Effluent systems

SPECIFICATIONS
Pump
 • Solids handling capabilities: 1/2" maximum.
 • Discharge size: 2" NPT.
 • Capacities: up to 140 GPM.
 • Total heads: up to 128 feet TDH.
 • Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.
 • See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

FEATURES
 • Impeller: Cast iron, semi-open, non-clog with pump-out vortex for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.
 • Casing: Cast iron volute type for maximum efficiency. 2" NPT discharge.
 • Mechanical Seal: SILICON CARBIDE VS. SILICON CARBIDE sealing faces. Stainless steel metal parts, BUNA-N elastomers.

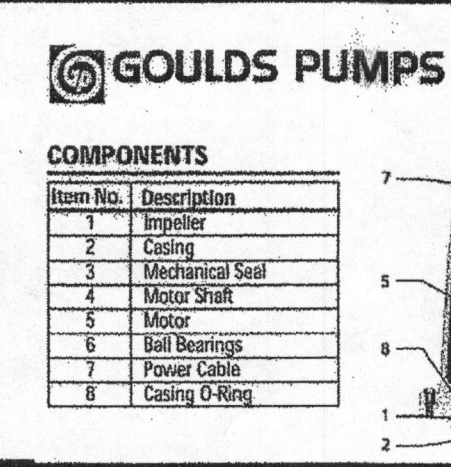
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APPLICATIONS
 • Shaft: Corrosion-resistant, stainless steel. Threaded design. Locknut on all models to guard against component damage on accidental reverse rotation.
 • Fasteners: 300 series stainless steel.
 • Capable of running dry without damage to components.
 • Designed for continuous operation when fully submerged.

MOTORS
 • Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.
 • Class B insulation on 1/2-1 1/2 HP models.
 • Class F insulation on 2 HP models.

FEATURES
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www.goulds.com



Submersible Effluent Pump
WE Series
 PROSURANCE AVAILABLE FOR RESIDENTIAL APPLICATIONS.

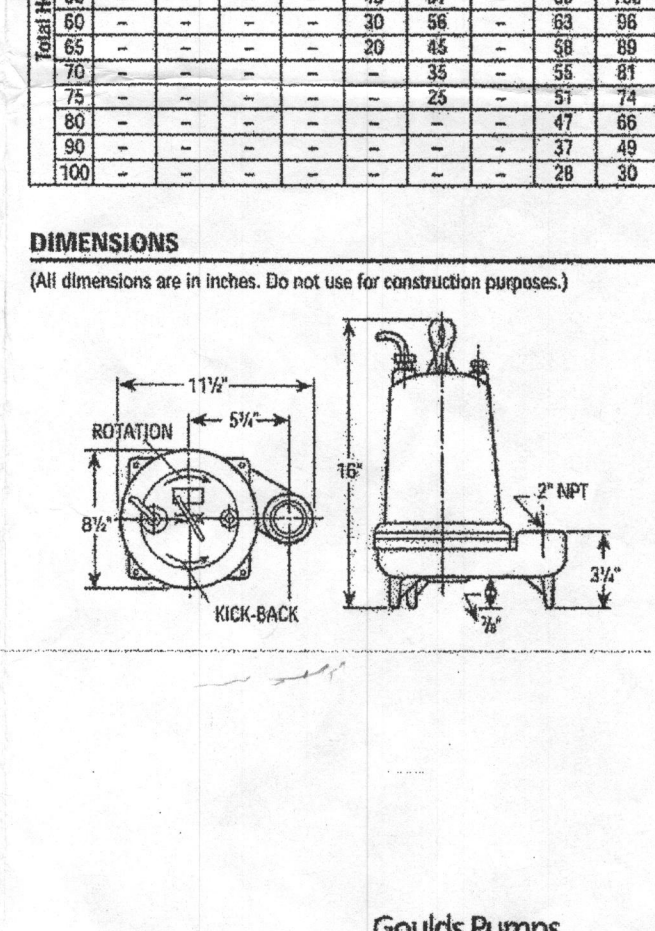
COMPONENTS
 Item No. Description
 1 Impeller
 2 Casing
 3 Mechanical Seal
 4 Motor Shaft
 5 Motor
 6 Ball Bearings
 7 Power Cable
 8 Casing O-Ring

MODELS

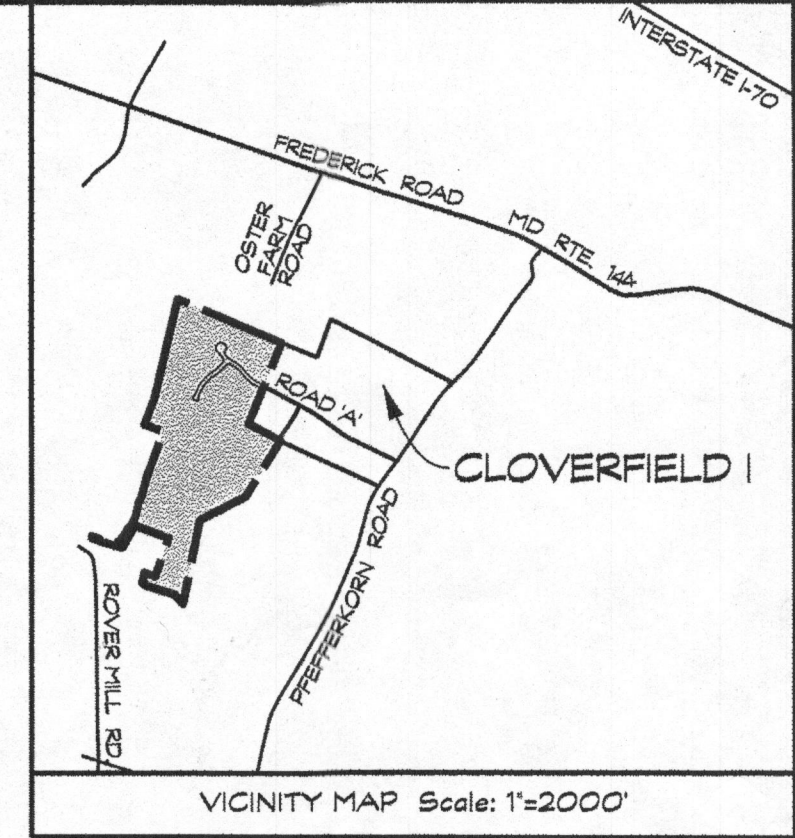
Order No.	HP	Volts	Phase	Max. Amp.	RPM	Solids	WT. (lbs.)
WE03TL	1/2	115	1	10.7	1750	58	
WE03TL	1/2	230	1	5.4	1750	58	
WE03TL	1/2	115	3	10.7	1750	58	
WE03TL	1/2	230	3	5.4	1750	58	
WE03TL	1/2	115	1	14.5	1750	58	
WE03TL	1/2	230	1	7.3	1750	58	
WE03TL	1/2	115	3	14.5	1750	58	
WE03TL	1/2	230	3	7.3	1750	58	
WE03TL	1/2	115	1	11.0	1750	58	
WE03TL	1/2	230	1	5.5	1750	58	
WE03TL	1/2	115	3	11.0	1750	58	
WE03TL	1/2	230	3	5.5	1750	58	
WE03TL	1/2	115	1	15.7	1750	58	
WE03TL	1/2	230	1	7.9	1750	58	
WE03TL	1/2	115	3	15.7	1750	58	
WE03TL	1/2	230	3	7.9	1750	58	
WE03TL	1/2	115	1	18.0	1750	58	
WE03TL	1/2	230	1	9.0	1750	58	
WE03TL	1/2	115	3	18.0	1750	58	
WE03TL	1/2	230	3	9.0	1750	58	
WE03TL	1/2	115	1	22.2	1750	58	
WE03TL	1/2	230	1	11.1	1750	58	
WE03TL	1/2	115	3	22.2	1750	58	
WE03TL	1/2	230	3	11.1	1750	58	
WE03TL	1/2	115	1	27.7	1750	58	
WE03TL	1/2	230	1	13.9	1750	58	
WE03TL	1/2	115	3	27.7	1750	58	
WE03TL	1/2	230	3	13.9	1750	58	
WE03TL	1/2	115	1	33.3	1750	58	
WE03TL	1/2	230	1	16.7	1750	58	
WE03TL	1/2	115	3	33.3	1750	58	
WE03TL	1/2	230	3	16.7	1750	58	
WE03TL	1/2	115	1	38.9	1750	58	
WE03TL	1/2	230	1	19.5	1750	58	
WE03TL	1/2	115	3	38.9	1750	58	
WE03TL	1/2	230	3	19.5	1750	58	
WE03TL	1/2	115	1	44.4	1750	58	
WE03TL	1/2	230	1	22.2	1750	58	
WE03TL	1/2	115	3	44.4	1750	58	
WE03TL	1/2	230	3	22.2	1750	58	
WE03TL	1/2	115	1	50.0	1750	58	
WE03TL	1/2	230	1	25.0	1750	58	
WE03TL	1/2	115	3	50.0	1750	58	
WE03TL	1/2	230	3	25.0	1750	58	
WE03TL	1/2	115	1	55.6	1750	58	
WE03TL	1/2	230	1	27.8	1750	58	
WE03TL	1/2	115	3	55.6	1750	58	
WE03TL	1/2	230	3	27.8	1750	58	
WE03TL	1/2	115	1	61.1	1750	58	
WE03TL	1/2	230	1	30.6	1750	58	
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WE03TL	1/2	115	1	66.7	1750	58	
WE03TL	1/2	230	1	33.3	1750	58	
WE03TL	1/2	115	3	66.7	1750	58	
WE03TL	1/2	230	3	33.3	1750	58	
WE03TL	1/2	115	1	72.2	1750	58	
WE03TL	1/2	230	1	36.1	1750	58	
WE03TL	1/2	115	3	72.2	1750	58	
WE03TL	1/2	230	3	36.1	1750	58	
WE03TL	1/2	115	1	77.8	1750	58	
WE03TL	1/2	230	1	38.9	1750	58	
WE03TL	1/2	115	3	77.8	1750	58	
WE03TL	1/2	230	3	38.9	1750	58	
WE03TL	1/2	115	1	83.3	1750	58	
WE03TL	1/2	230	1	41.7	1750	58	
WE03TL	1/2	115	3	83.3	1750	58	
WE03TL	1/2	230	3	41.7	1750	58	
WE03TL	1/2	115	1	88.9	1750	58	
WE03TL	1/2	230	1	44.4	1750	58	
WE03TL	1/2	115	3	88.9	1750	58	
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WE03TL	1/2	115	1	94.4	1750	58	
WE03TL	1/2	230	1	47.2	1750	58	
WE03TL	1/2	115	3	94.4	1750	58	
WE03TL	1/2	230	3	47.2	1750	58	
WE03TL	1/2	115	1	100.0	1750	58	
WE03TL	1/2	230	1	50.0	1750	58	
WE03TL	1/2	115	3	100.0	1750	58	
WE03TL	1/2	230	3	50.0	1750	58	

PERFORMANCE RATINGS (gallons per minute)

Order No.	1/2"	3/4"	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/2"	3"
1750	1750	1750	3500	3500	3500	3500	3500	3500	3500
8	88	88	88	88	88	88	88	88	88
10	70	63	70	50	50	50	50	50	50
15	50	50	70	50	50	50	50	50	50
20	27	35	60	63	69	123	49	90	136
25	25	25	48	76	94	117	46	87	133
30	45	45	35	67	89	110	40	83	130
35	40	40	20	57	82	103	35	80	126
40	40	40	15	48	74	85	30	77	121
45	45	45	15	48	74	85	30	77	121
50	50	50	25	53	77	70	110	110	110
55	55	55	25	53	77	70	110	110	110
60	60	60	25	53	77	70	110	110	110
65	65	65	25	53	77	70	110	110	110
70	70	70	25	53	77	70	110	110	110
75	75	75	25	53	77	70	110	110	110
80	80	80	25	53	77	70	110	110	110
85	85	85	25	53	77	70	110	110	110
90	90	90	25	53	77	70	110	110	110
95	95	95	25	53	77	70	110	110	110
100	100	100	25	53	77	70	110	110	110



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SEPTIC TANK NOTES

- SINGULAR® AERATOR, AS TESTED AND ACCEPTED BY NSF, OPERATING 60 MINUTES ON / 60 MINUTES OFF.
- FALL THROUGH SINGULAR® PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TWELVE INCHES BELOW TANK TOP.
- ON DEEPER INSTALLATIONS, PRECAST RISERS MUST BE USED TO EXTEND AERATOR MOUNTING CASTINGS AND BIO-KINETIC® SYSTEM MOUNTING CASTING TO GRADE.
- TANK REINFORCED PER ACI STD. 318-05.
- REMOVABLE COVERS ON RISERS WEIGH IN EXCESS OF SEVENTY-FIVE POUNDS EACH TO PREVENT UNAUTHORIZED ACCESS.
- CONTACT THE LOCAL LICENSED SINGULAR® DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS.

NOTE: PUMP CHAMBER SIZE AND FLOATS BASED ON GOULDS WE SERIES SUBMERSIBLE PUMP. IF A PUMP SUBSTITUTION OCCURS, CHAMBER SIZE AND FLOATS WILL NEED TO BE RECALCULATED TO ENSURE THAT PUMP IS COVERED.

PUMP/SYSTEM DESIGN:
 1. DESIGN FLOW: 600 GPD
 2. DESIGN HEAD: STATIC HEAD, 543.9 - 534.15 = 9.75
 FRICTION HEAD: 4.5' BEND = 6'
 87' OF 3" PVC = 8.7'
 6" x 87' = 9.3'
 9.3 X 1.05/100 = 1.00
 TOTAL HEAD: 9.75 + 1.00 = 10.75 @ 30 GPM

CAST-IN-PLACE RECEIVING FLANGE
 1. 1/8" DESIGN FLOW: 100 GAL. MINIMUM DOSE
 2. MINIMUM DOSE CALCULATIONS:
 93' OF 3" PVC X 36.4/100 = 35.71
 126' OF 4" PVC X 66.1/100 = 83.29
 TOTAL DOSE = 119.0

PUMP SYSTEM
 1. USE MINIMUM DOSE: 120 GAL.
 2. PUMP CHAMBER CAPACITY: DOSES: 120 GPD
 ONE DAY STORAGE CAPACITY: 720 GPD
 TOTAL STORAGE: 120 GPD

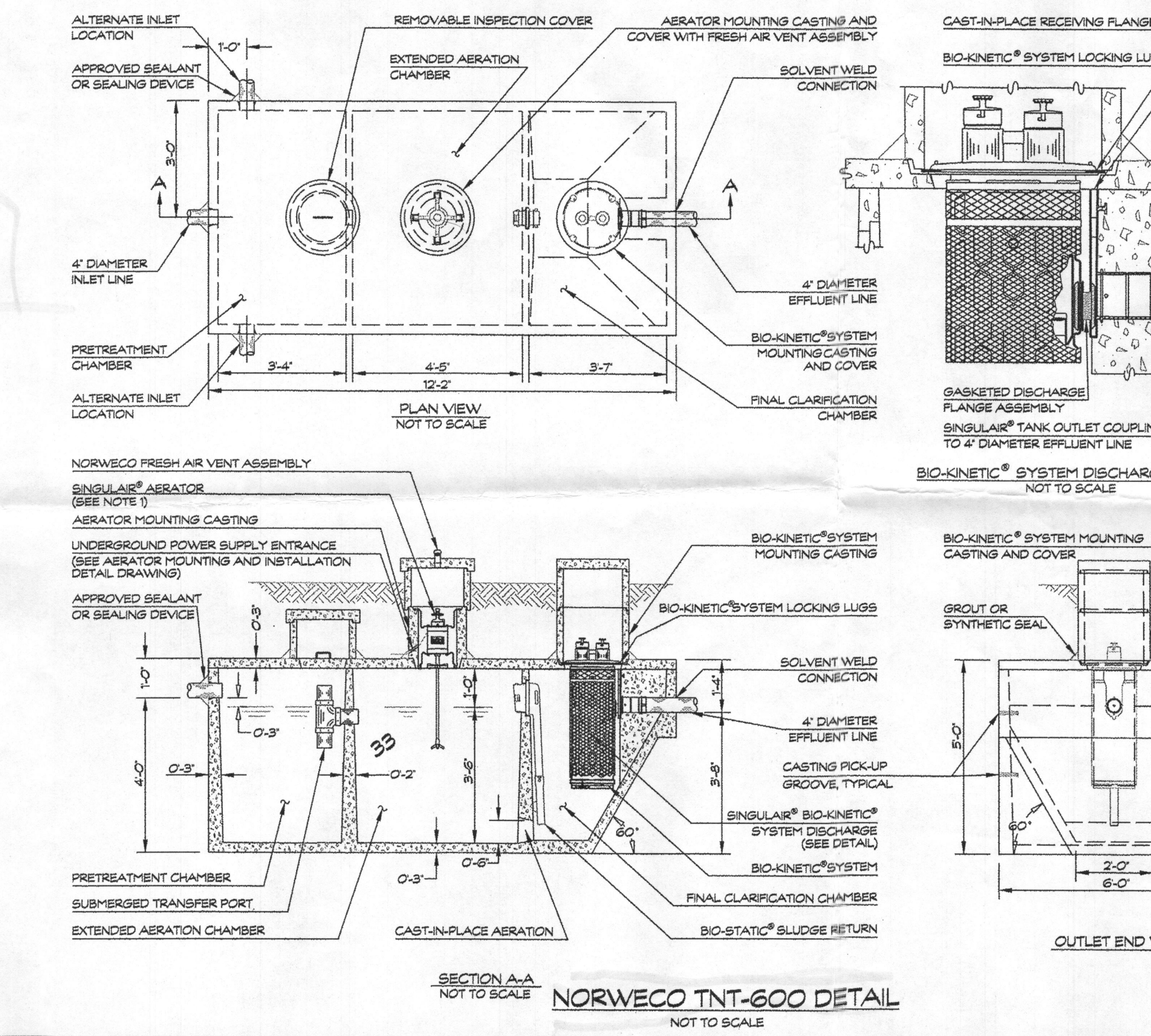
TRENCH CHART

TRENCH	EX. GROUND	INV. ELEV.	BOTTOM OF TRENCH
1	546.6	543.6	538.6
2	545.5	542.5	537.5

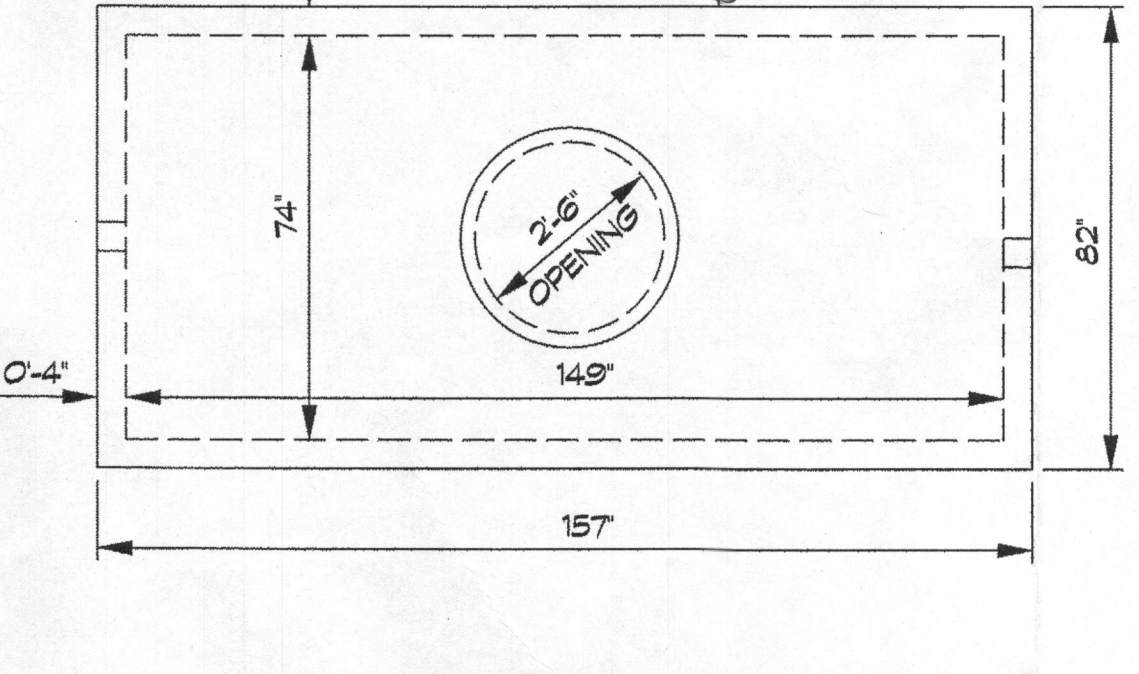
GENERAL NOTES
 1. THE STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED OFF-SITE IN THE TWO MICROPOOL EXTENDED DETENTION FACILITIES AND GRASSED SWALES PER THE RECORDED PLAN NO. 20256.
 2. THERE ARE NO STREAMS, PONDS, FLOODPLAINS, OR WETLANDS ON THIS LOT.
 3. THERE ARE NO 20% OR GREATER SLOPES ON THIS LOT.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

SEPTIC SYSTEM TRENCH DESIGN:
 PROPOSED NUMBER OF BEDROOMS = 4
 AVERAGE PERCOLATION TEST TIME = 7
 APPLICATION RATE = 0.8
 DESIGN FLOW: 150 GALS x 4 BEDROOM = 600 GAL/DAY
 750 SQ. FT. / 0.8 GAL/DAY/SQ. FT. = 750 SQ. FT.
 750 SQ. FT. / 3 FT. = 250 LF. OF TRENCH
 250 LF. x 0.50 = 125 LF. OF TRENCH
 USE 2 - 63 LF. OF TRENCH FOR INITIAL SYSTEM
 USE 2 - 63 LF. OF TRENCH FOR EACH REPLACEMENT SYSTEM

THE EXISTING WELL SHOWN ON THIS PLAN (HC-25-1545) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.

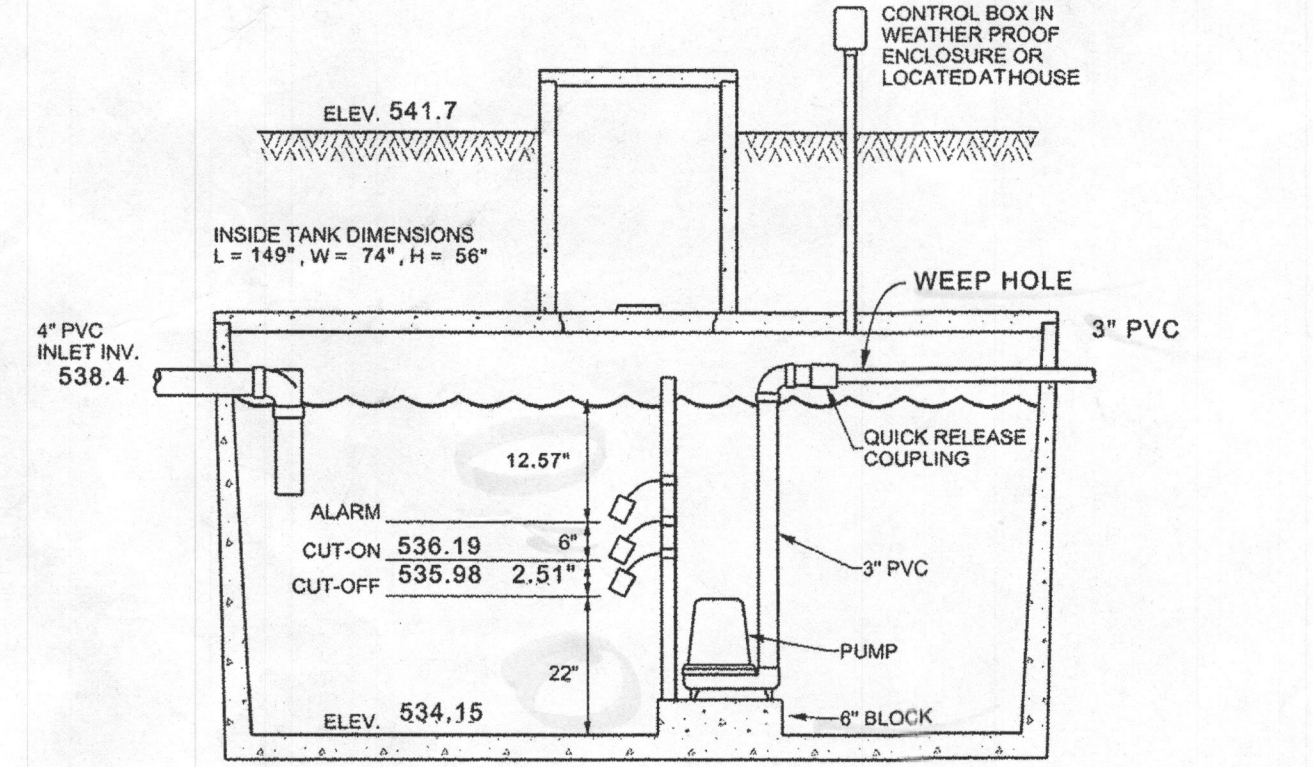


Approved Septic System Plan
 Howard County Health Department
 NORWECO TNTLP-600 GPD
 w/ 1500-gal Pump Tank & Goulds 3885-WE-03L pump or equiv.
 R. Bricker 8/25/2015
 Signature: [Signature] Date: [Date]
 P 1500 3178



SPECIFICATIONS
 • Tank measurements and elevations are based on pump chambers as manufactured by Babylon Vault Co, New Windsor, Maryland (410) 848-0393
 • All piping to be schedule 40 PVC of sizes shown.
 • A submersible pump to remove 30 GPM at 10.75 TDH to be provided. Pump to be a Goulds Model 3885-WE-03L, or equal.
 • Alarm to be located in and outside the house on circuit separate from the pump.

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 8 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.
 10. IF A BUILDING PERMIT IS SUBMITTED ANY TIME IN THE FUTURE, A SEPTIC SYSTEM UPGRADE WILL BE REQUIRED TO FINISH THE AREA CURRENTLY IDENTIFIED AS THE BASEMENT. AT THAT TIME A SEPTIC SYSTEM UPGRADE WILL BE REQUIRED AS FINISHING THE BASEMENT COULD POSSIBLY CREATE A FIFTH BEDROOM PER HOWARD COUNTY CODE 3.80.1(b).



1500 GAL. PUMP CHAMBER
 NOT TO SCALE

SITE PLAN AND PLOT PLAN FOR BAT INSTALLATION
 SPRING MILL LLC
 13590 MITCHELLS WAY
 TAX ACCOUNT NO.: 353524
 LOT 14
CLOVERFIELD- SECTION II
 3RD ELECTION DISTRICT - HOWARD COUNTY, MD.
 TAX MAP: 15 BLOCK 7 PARCEL: 19

Linis D. Alexander
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 (410) 848-1790 FAX (410) 848-1791

Date	Revisions	Drawn By:
7/17/15	REVISED TO ADD NOTE BUILDING PERMIT NOTE PER HEALTH DEPT.	Designed By: LDA
8/17/15	REVISED PER HEALTH DEPT. COMMENTS	Reviewed By: LDA
8/20/15	REVISED PER HEALTH DEPT. COMMENTS	Date: 7/8/15

Scale: 1" = 30'
 Job No.: 2013039
 Sheet: 1 OF 1