

**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](http://www.hchealth.org)  
 Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)

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

RECEIPT DATE: 7-15 **ONSITE SEWAGE DISPOSAL SYSTEM** P SL 508 B

APPROVAL DATE: 9/21/15 SEC **PERMIT: CONSTRUCTION** A \_\_\_\_\_

PROPERTY ADDRESS: 14715 Lear Court

SUBDIVISION: Warfields II LOT: 36 TAX ID: \_\_\_\_\_

CONTRACTOR: South Carroll Backhoe EMAIL: scbackhoe@comcast.net

CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157 PHONE: 410-596-3618

CONTRACTOR CERTIFIED FOR BAT INSTALLATION:  MDE  MANUFACTURER:

PROPERTY OWNER: NVR Inc. EMAIL: \_\_\_\_\_

OWNER ADDRESS: 9720 Patuxent Woods Drive PHONE: 410-379-5956

BAT UNIT MODEL: HOOT 600 BNR PUMP SIZE: EP0511 PUMP TANK CAPACITY: 750GAL

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: 308-15 DATE RECORDED: 56-15

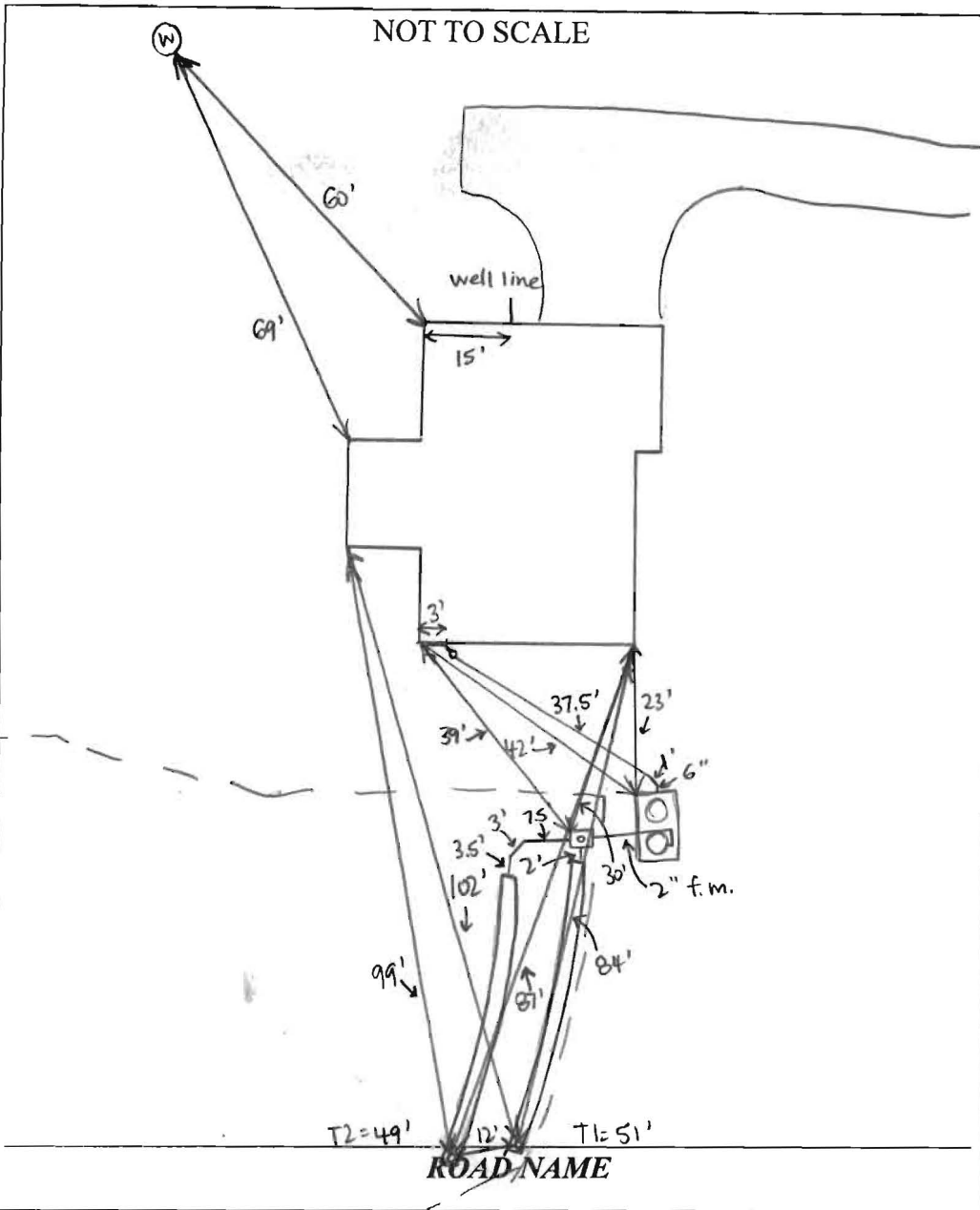
DISTRIBUTION SYSTEM:  GRAVITY  PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>100</u>	INLET DEPTH: <u>3' 3"</u>
	TRENCH WIDTH: <u>3' 2"</u>	MAXIMUM BOTTOM DEPTH: <u>7' 3"</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. <span style="float: right;"><u>61 tons stone</u></span>	
NOTES:	Use 2 50' long trenches.	

ISSUED BY: Hank Oswald ISSUE DATE: 7-1-15 EXPIRATION DATE: 7-1-16

- 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  
 ELECTRICAL PERMIT ISSUED E 15003021
- 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.**



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
2'	3'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		100'
ABSORPTION AREA		200' + SIDEWALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		NO
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	YES
MANUFACTURER	MAYER BROS / HOOT
CAPACITY	1500 GAL
SEAM LOC	TOP
TANK LID DEPTH	3'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	NO
DATE ON LID	-
<b>PUMP/SEPTIC TANK LEVEL</b>	
MANUFACTURER	_____
CAPACITY	_____ GAL
SEAM LOC	_____
TANK LID DEPTH	_____
BAFFLES	_____
BAFFLE FILTER	_____
MANHOLE LOC	_____
6" PORT LOC	_____
WATERTIGHT TEST	_____
SLOTTED	_____
DATE ON LID	_____

**PRE-CONSTRUCTION:**

8/25/15 Met Dominic from South Carroll for layout. Tank stake and all SDA stakes present. Laid out 2 x 50' trenches on contour at upper portion of the SDA. Trenches pushed to western edge of SDA to make room for D-box. (SC)

**INSTALLATION:** 8/28/15 Tank installed and pipe laid from house to tank - need house connection. Digging T2 during site visit - 49', 8' deep. Using transit while digging. (SC)

9/3/15 T1 finished + left open, 2.5' to stone. Need house connection and BAT startup certification. (SC) 9/18/15 House connection made - images sent from Matt with NV Homes. Hoot startup with Mike Sample. No power to system - electrician called to fix. (SC) 9/21/15 BAT startup certification received. (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 9/21/15

Lot 36 14715 Leocourt

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

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: NVR  
Reference/Control #: 174

LR - Surcharge  
1x 40.00 40.00

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

Grantor/Grantee Name: NVR  
Reference/Control #: 175

LR - Surcharge  
1x 40.00 40.00

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

Grantor/Grantee Name: NVR  
Reference/Control #: 176

LR - Surcharge  
1x 40.00 40.00

=====  
SubTotal: 180.00  
Total: 180.00

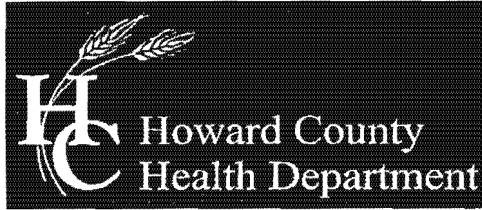
=====  
REV-Check-BOA 180.00  
Number : 4323

05/06/2015 11:17 CC13-DS  
#4206145 /1246/109

\*\*\*\*\* DUPLICATE #001 \*\*\*\*\*

05/06/2015 11:19 CC13-DS  
~ Thank you for visiting us today ~

Lot 36



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TDD 410-313-2323 | Toll Free 1-866-313-6300

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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 29 day of March, among \_\_\_\_\_  
NVR, Inc., 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  
14715 Lear Ct., Glenela, Md 21737, in the 5th 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 15635 Folio 249.

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. The pre-treatment device being installed is HOOT 600 GPD BNR.

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.

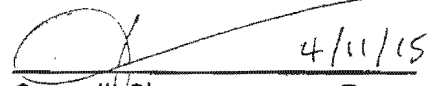
H. This agreement contains the entire agreement and understanding between the County and the Owner. There are no additional terms other than as contained in this agreement. This agreement may not be modified, except in writing signed by each of the parties or by their authorized representatives.

I. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.

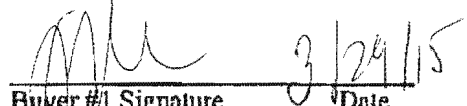
J. Owner acknowledges and agrees that interior renovations to increase the number of bedrooms or an increase in living space shall not be permitted without approval from the County.

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

  
Howard County Health Department

 4/11/15  
Owner #1 Signature      V.P. Date  
Timothy Naughton      NVR Inc.

Owner #1 Print Name

 3/29/15  
Buyer #1 Signature      Date  
Rashid Bajwa

Buyer #1 Print Name

  
Owner #2 Signature      Date

Owner #2 Print Name

Buyer #2 Signature      Date

Buyer #2 Print Name

Lot 36



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

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050  
250

WHEREAS, Owner is the owner or contract owner of a parcel of land located at 14715 Lear Ct., Glenelg, Md 21737, in the 5th 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 15635 Folio 249.

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. The pre-treatment device being installed is Hoot 600 GPD BNR.

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

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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.

Michael J. Davis 4/6/15  
Howard County Health Department

Timothy Naughton 4/11/15  
Owner #1 Signature V.P. Date  
NVR Inc.

Owner #1 Print Name

Rashid Bajwa 3/29/15  
Buyer #1 Signature Date

Buyer #1 Print Name

4/11/15  
Owner #2 Signature Date

Owner #2 Print Name

Buyer #2 Signature Date

Buyer #2 Print Name

JW R-8/2014

Print Date: 3/25/2015

LR - Recording Fee (No Taxes)  
Grantor/Grantee Name: NVR  
Reference/Control #: 175  
LR - Surcharge 40.00  
SubTotal: 60.00  
Total: 190.00  
05/06/2015 11:18 CC13-05  
#4206145 CC0503 -  
Howard Co  
Columbia/CC05.03.07 -  
Register 07

# Letter of Satisfaction

## Hoot System Installation

Address of Property: 14715 Lear Ct.  
Glennelg, MD. 21737

Date of Final Inspection: 9/18/15

Installer: South Carroll Backhoe Service

Hoot Technician/Inspector: Mike Sample

I hereby certify that the Hoot system installed at the property listed above has been installed according to proper Hoot installation practices. I have also verified the startup of the system and it is in proper working order.

Sincerely,

H. Michael Dager  
Name of Inspector  
Mayer Bros., Inc.

PH: 410-796-1434

FX: 410-796-1438

**WBE**  
**NPCA Certified Plant**

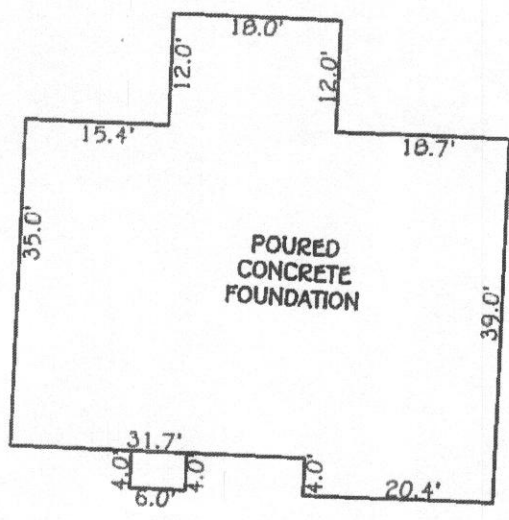
mayerbro@connext.net  
www.mayerbrosprecast.com

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Grease Interceptors, Grease Solutions, Aerobic Treatment Units, Septic Tanks, Holding Tanks, Storm Water Structures, Hydroceptors,  
Bench Barrier, Water Meter Vaults, Sectional Valve Vaults, Top Slabs, Curb Heads, Curb Bumpers, PermEntry Basement Entries,  
Scapewel Window Wells, Custom Precast Products

**GENERAL NOTES:**

- 1) THIS LOCATION DRAWING IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM INsofar AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR REFINANCING OF THE PROPERTY SHOWN HEREON. UNLESS INDICATED AS BEING A BOUNDARY SURVEY, THIS LOCATION DRAWING IS NOT INTENDED FOR USE IN THE ESTABLISHMENT OF PROPERTY LINES AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATIONS OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE IMPROVEMENTS. AS A RESULT, THIS LOCATION DRAWING DOES NOT PROVIDE FOR ACCURATE IDENTIFICATION OF PROPERTY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING FOR RE-FINANCING.
  - 2) SUBJECT PROPERTY IS SHOWN IN ZONE C ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL No. 2400440020-B EFFECTIVE DEC. 4, 1986.
  - 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF PLUS OR MINUS 1'(\*).
  - 4) NO TITLE REPORT FURNISHED. SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND CONDITIONS OF RECORD.
  - 5) THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-95-1548) HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.
  - 6) PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 339, EXPIRATION DATE 10/04/2016.
- 1) BUILDING PERMIT #B-15001553



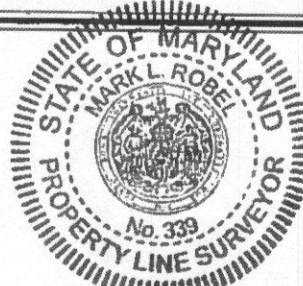
DETAIL:  
1"=20'

7/1/15  
Wall check  
approved  
-KMD

#14715 LEAR COURT  
B.R.L.= BUILDING RESTRICTION LINE  
TOP OF FOUNDATION ELEV.= 516.4'±

LOT 36  
THE WARFIELDS II  
SECTION TWO  
LOTS 6 THRU 68  
CEMETERY OPEN SPACE LOT 69  
AND BUILDABLE PRESERVATION  
PARCEL "A" & NON-BUILDABLE  
PRESERVATION PARCEL "B" THRU "I"  
FIFTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
PLAT #20247-20254

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLCOTT CITY, MARYLAND 21042  
(410) 461 - 2855

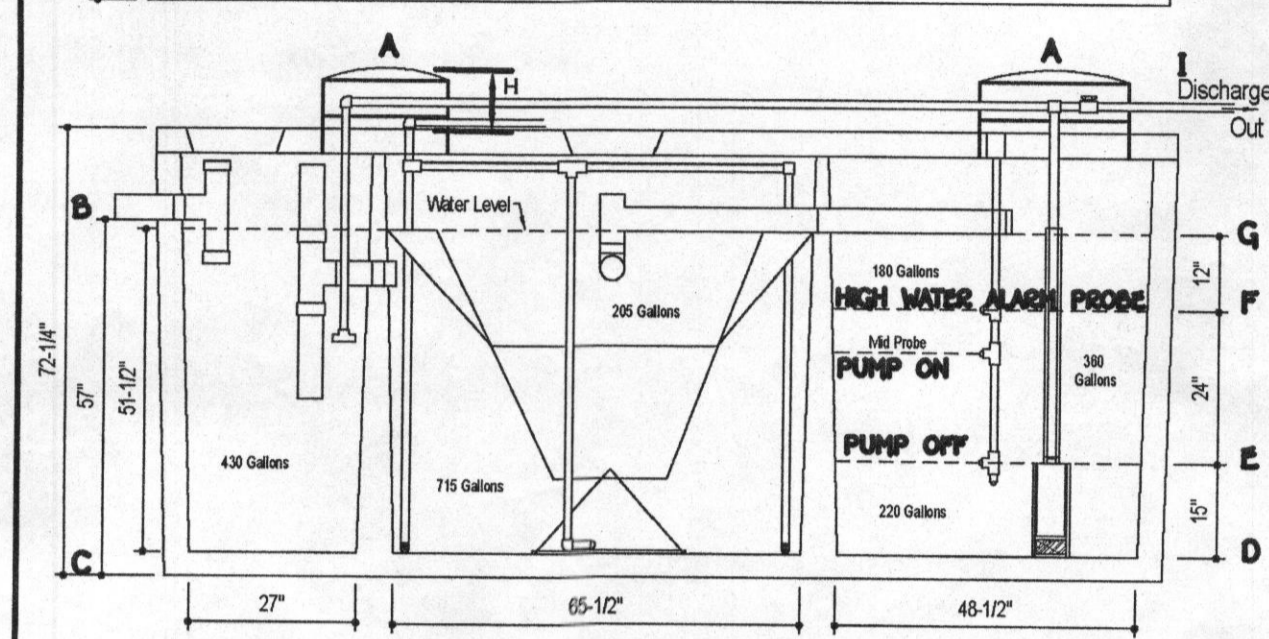
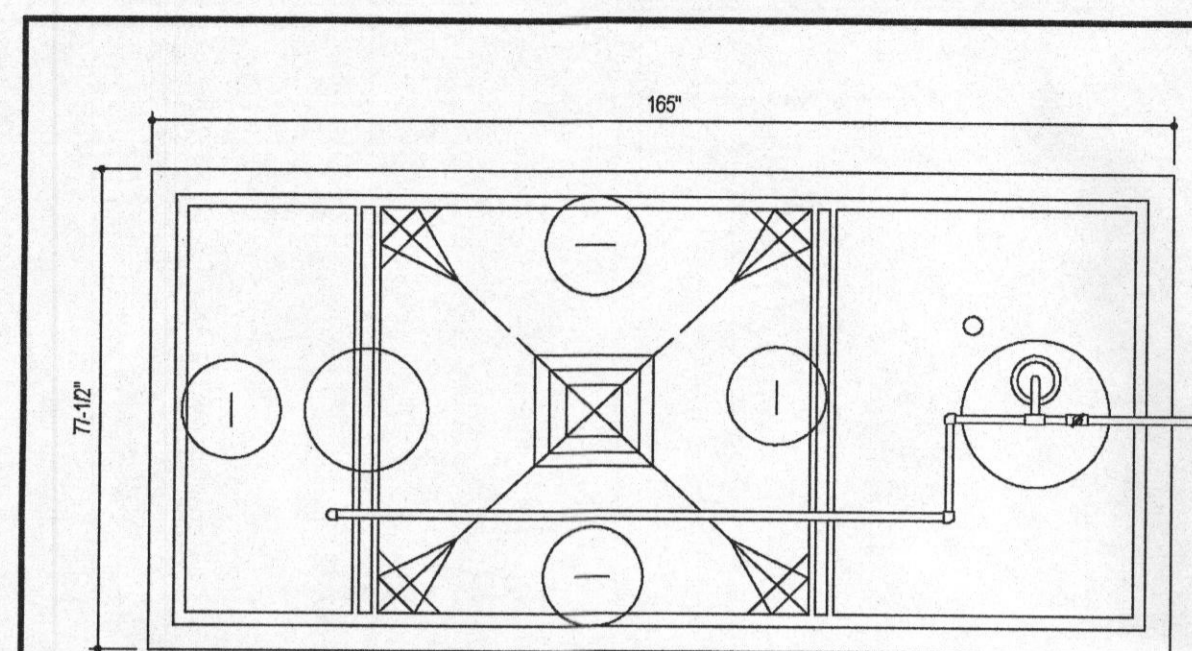


*Mark L. Robel* 6/23/15  
PROPERTY LINE SURVEYOR DATE  
REG. #339

**HOUSE LOCATION  
DRAWING**

FOUNDATION LOCATION: 6/18/15  
FINAL LOCATION: \_\_\_\_\_  
BOUNDARY SURVEY: \_\_\_\_\_

SCALE: 1"=50'  
DATE: 6/23/15  
DRAWN BY: GAD  
CHECKED BY: MLR  
PROJECT No.: 05100-6001



**DESIGN DATA & GENERAL NOTES**  
 1) Concrete strength F<sub>c</sub> = 4000 p.s.i. @ 28 days. Density = 150 pcf.  
 2) Concrete - Portland Type III per ASTM C 150-02.  
 3) Admixtures & plasticizers per ASTM C 494-02 & C 494-02.  
 4) Reinforcing per ASTM A618, Min. 1/4" cover.

**Mayer Brothers, Inc.**  
 6204 Race Road  
 Beltsville, Maryland 21075  
 Tel: 410.796.1434  
 Fax: 410.796.1438  
 www.mayerbrothers.com

**600 GPD BNR SYSTEM  
 H-600 BNR**  
 with 750 GALLON PUMP CHAMBER

Div. No. Hoot Form #1 No Scale March 18, 2009

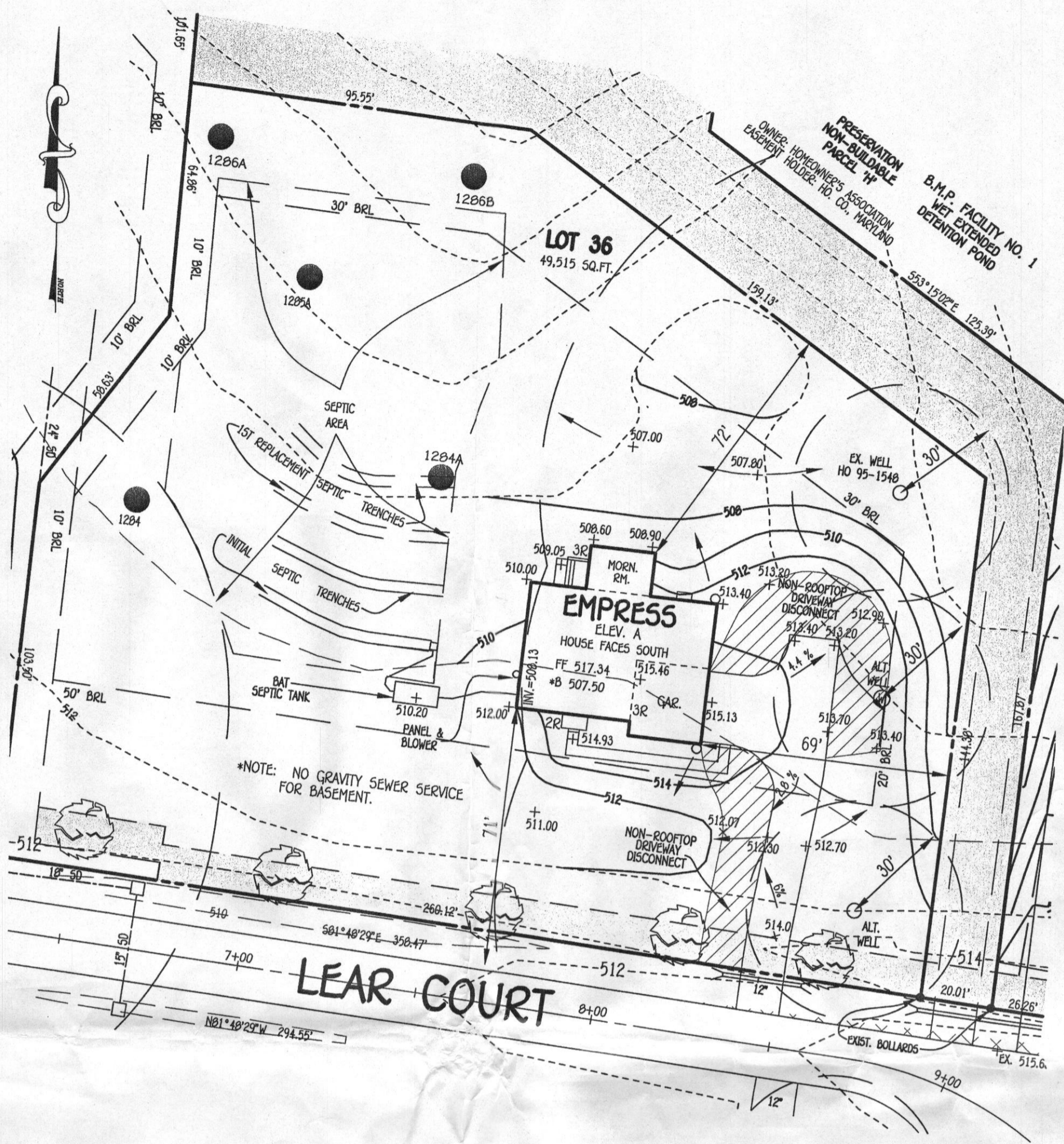
**SEPTIC SYSTEM ELEVATIONS**  
 A = 510.20  
 B = 507.66 (INV. INTO TANK)  
 C = 502.91  
 D = 503.24  
 E = 504.49  
 F = 506.49  
 G = 507.49  
 H = 1.27' (7" MIN.)  
 I = 509.15 (INV. OUT OF TANK)

FFE = 517.34  
 BSE = 507.50  
 INV. OUT OF HOUSE = 508.13  
 INV. INTO DISTRIBUTION BOX = 506.70  
 TOP OF TANK = 508.93  
 DOSE VOLUME = 50 GAL  
 TIME PER DOSE = 2 MIN

**NOTE:**  
 THE PROPOSED HOUSE IS TO HAVE 4 BEDROOMS, HOWEVER IT IS DESIGNED FOR 5 BEDROOMS.

**BAT NOTE:**

- ANY CHANGE TO THE CONDITIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REDUCED SITE PLAN (1" = 30') IS REQUIRED.
- THE MAXIMUM COVER OVER THE BAT FOR THE MANUFACTURER'S SPECIFICATION IS 3 FEET. IF COVER EXCEEDS 1 FT. THEN A TRENCH EXCAVATION SHALL BE REQUIRED.
- THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON THE MANUFACTURER'S SPECIFICATIONS.
- THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
- THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
- WITHIN ONE MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE HEALTH DEPARTMENT OF THE JURISDICTION IN A MANNER ACCEPTABLE TO HIM, 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 WAIVER HAS BEEN COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND ACCORDING TO THE LATEST RECORDS OF HOWARD COUNTY, LIBER 14780, FOLIO 067.
- THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP COORDINATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.
- SURFACE RUNOFF SHALL BE DIRECTED AROUND THE BAT TANK.
- IF HIGH WATER ALARM PROBE, PUMP WILL HAVE CONTINUOUS OPERATION UNTIL LEVEL GOES SIGNIFICANTLY PROBE.
- IF WATER LEVEL RISES ABOVE THE ALARM PROBE, AN AUDIBLE AND VISUAL ALARM WILL SOUND. SEE MANUFACTURER SPEC FOR ADDITIONAL INFORMATION.
- ALARM TO BE WIRED TO A CIRCUIT SEPARATE FROM THE PUMP CIRCUIT.



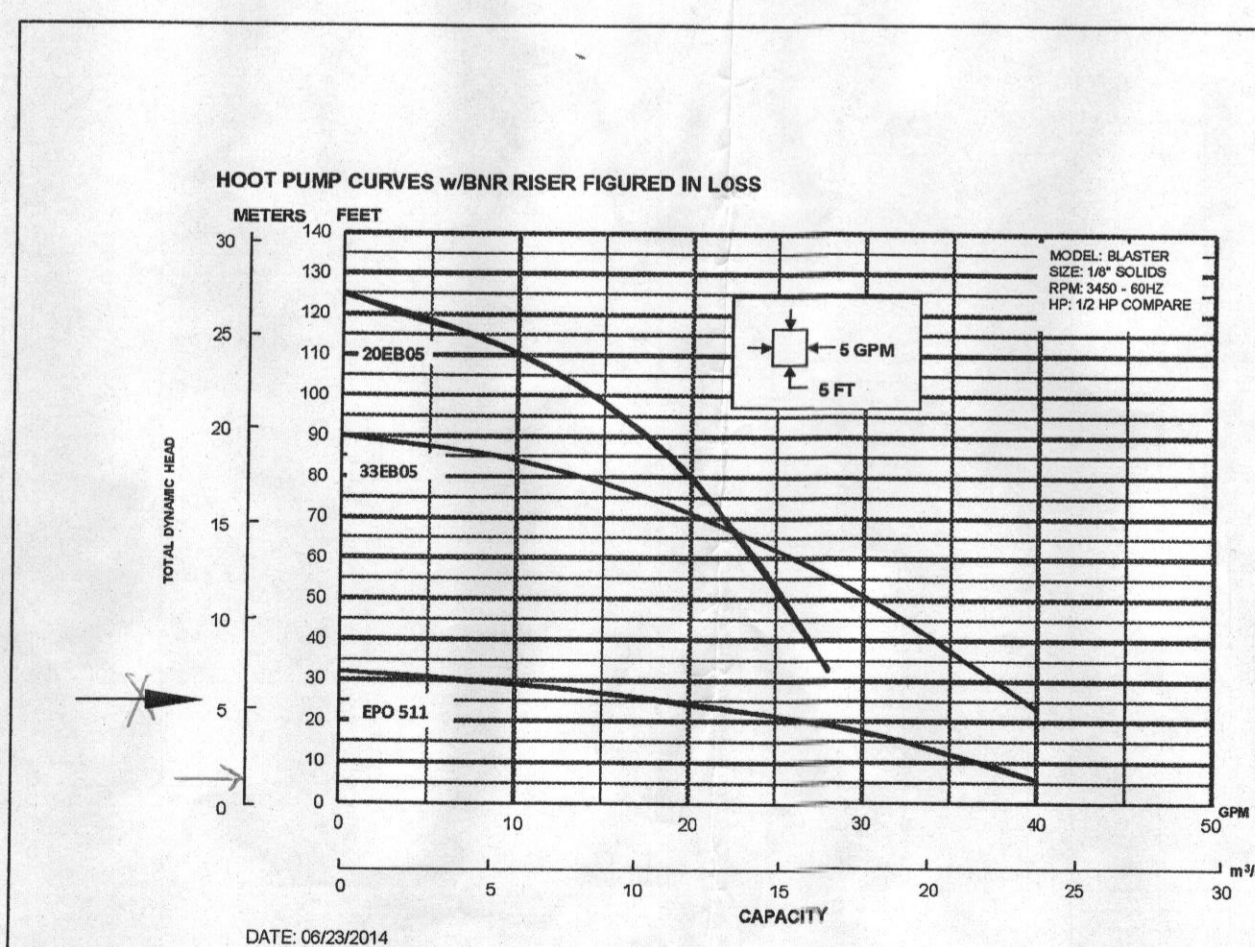
**PLAN**  
 SCALE: 1" = 30'

**SEWAGE DISPOSAL SYSTEM DATA (PERMIT 4 BEDROOMS, DESIGN 5 BEDROOMS)**

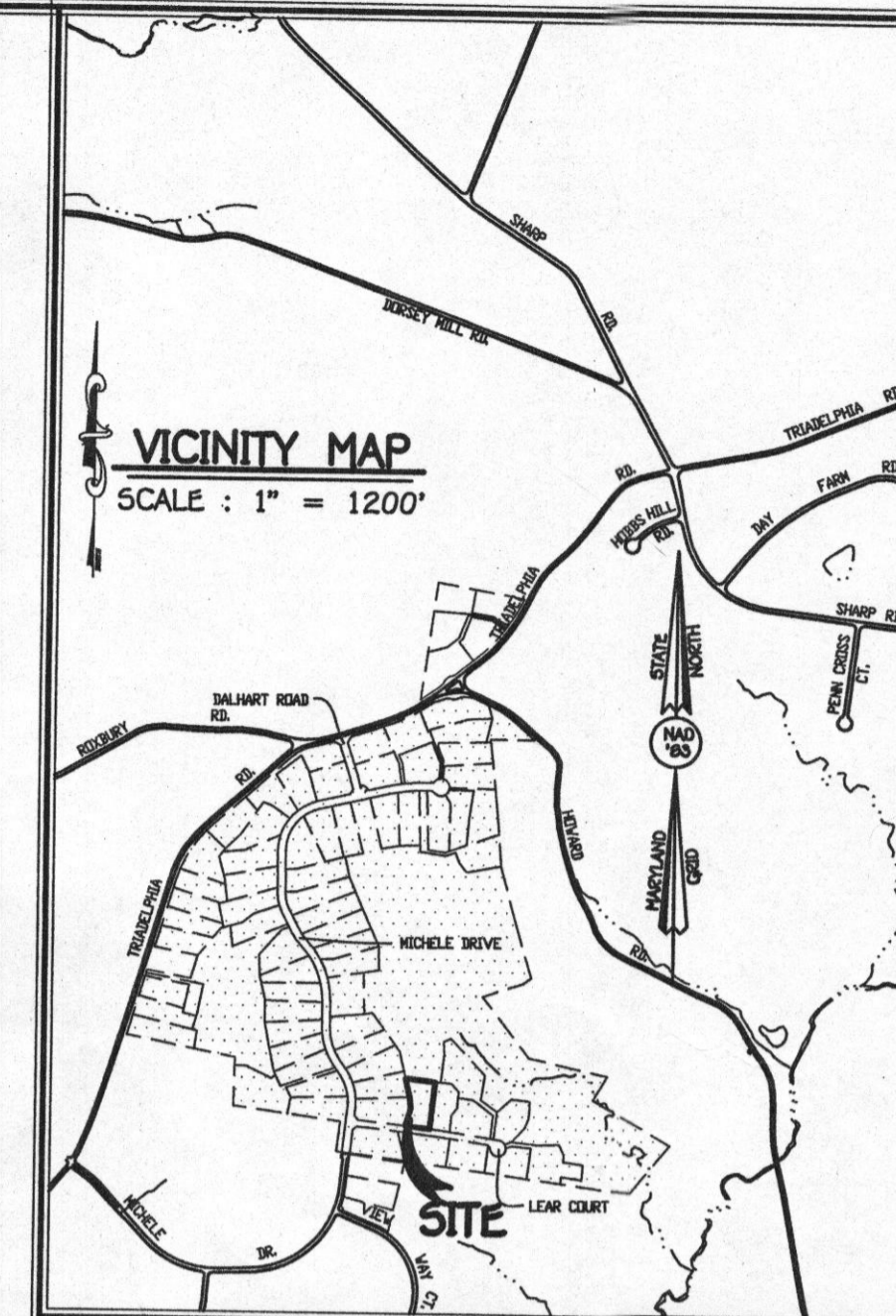
- PROP. INVERT AT FOUNDATION WALL: 483.90
- HOOT 600 BNR (750 GAL. PUMP CHAMBER) (MAX. NO. BEDRMS.=5)  
 EX. GRADE OVER TANK: 509.80  
 PROP. GRADE OVER TANK: 510.20  
 INVERT INTO TANK: 507.66 INVERT (DISCHARGE ELEV.) OUT TANK: 509.15
  - DISTRIBUTION BOX:  
 EX. GRADE: 509.7  
 PROP. GRADE OVER TANK: 510.20  
 INVERT IN: 506.70
  - TRENCH DESIGN:  
 (5 BDRM X 150 GPD/BDRM= 750 GPD)  
 750 / 1.2 APP. RATE = 625 SF  
 USE 3" WIDE TRENCH AND 10' MIN. SPACING BETWEEN TRENCH EDGES.  
 625 SF / 3" WIDTH = 208.33 LF. X 0.42 = 87.5 LF. MIN. TRENCH  
 USE 2- 50' LONG TRENCHES = 100 LF.

**TRENCH DATA:**

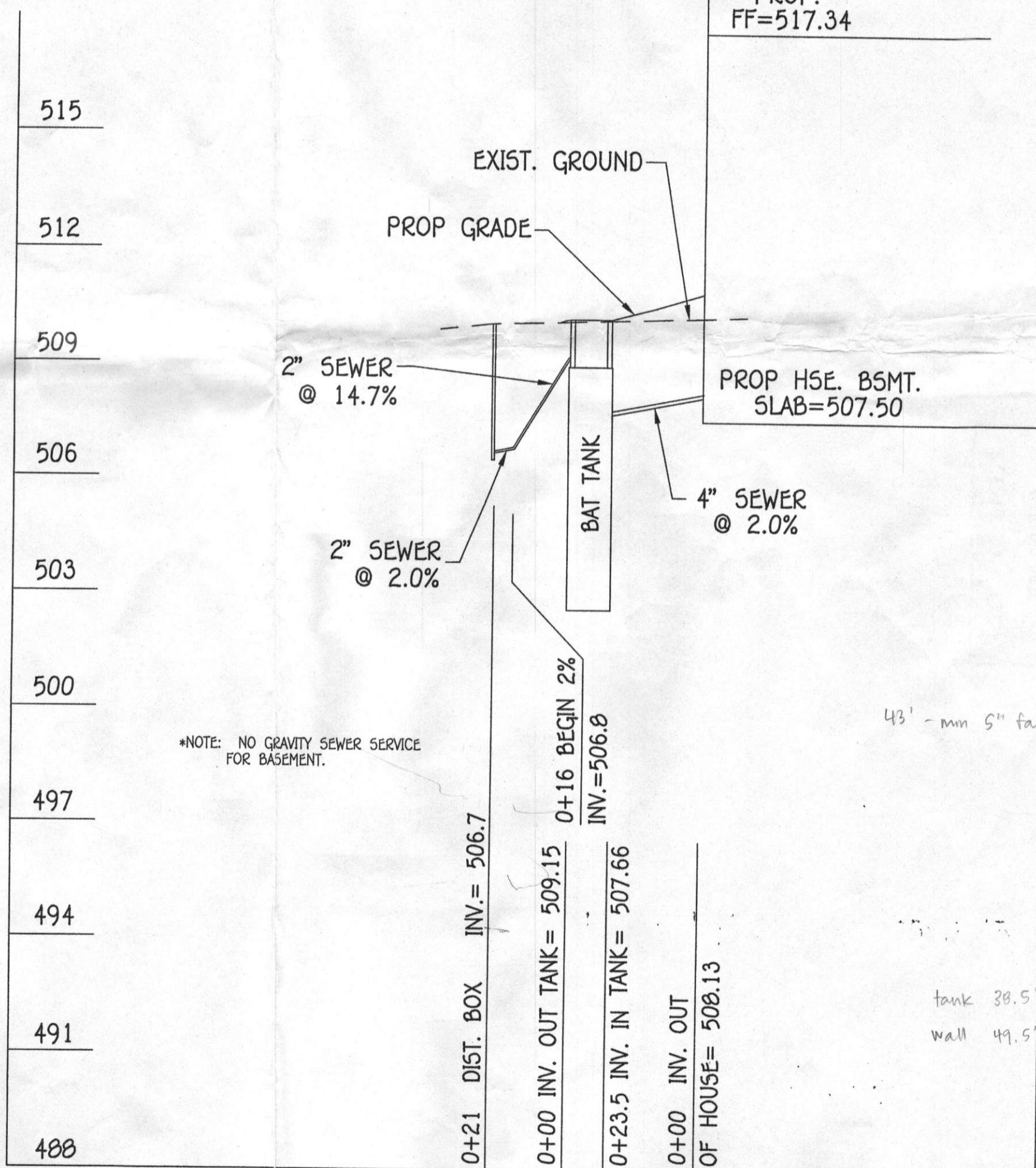
- TRENCH 1:  
 EX. GROUND ABOVE = 509.70  
 INV. IN = 506.60  
 BOTTOM TRENCH = 502.70
- TRENCH 2:  
 EX. GROUND ABOVE = 509.10  
 INV. IN = 506.10  
 BOTTOM TRENCH = 502.10
- REPLACEMENT TRENCH 3:  
 EX. GROUND ABOVE = 509.70  
 INV. IN = 506.60  
 BOTTOM TRENCH = 502.70
- TRENCH 4:  
 EX. GROUND ABOVE = 509.10  
 INV. IN = 506.10  
 BOTTOM TRENCH = 502.10



DATE: 06/23/2014



PROP. FF=517.34



\*NOTE: NO GRAVITY SEWER SERVICE FOR BASEMENT.

tank 38.5' + 12" + 6" = 55.5'  
 wall 49.5'

**ITT GOULDS PUMPS Wastewater**

**APPLICATIONS**  
 Specifically designed for the following uses:  
 • Effluent systems  
 • Homes  
 • Farms  
 • Heavy duty sump  
 • Water transfer  
 • Dewatering

**SPECIFICATIONS**  
 • Solids handling capability: 1/2" maximum.  
 • Capacities: up to 60 GPM.  
 • Total heads: up to 31 feet.  
 • Discharge size: 1 1/2" NPT.  
 • Mechanical seal: carbon-rotary/ceramic-stationary, BUNA-N elastomers.  
 • Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.  
 • Fasteners: 300 series stainless steel.  
 • Capable of running dry without damage to components.

**Motor:**  
 • EP04 Single phase: 0.4 HP, 115 or 230 V, 60 Hz, 1550 RPM, built in overload with automatic reset.  
 • EP05 Single phase: 0.5 HP, 115 V or 230V, 60 Hz, 1550 RPM, built in overload with automatic reset.  
 • Power cord: 10 foot standard length, 16GS SJTW with three prong grounding plug. Optional 20 foot length, 16GS SJTW with three prong grounding plug (standard on EP05).  
 • Fully submerged in high grade turbine oil for lubrication and efficient heat transfer.

**Available for automatic and manual operation. Automatic models include Mechanical Float Switch assembled and preset at the factory.**

**PERFORMANCE RATINGS**

Total Head (ft. of water)	Gallons Per Minute (GPM)	EP04	EP05
5	53	-	-
10	46	62	-
15	36	55	-
20	21	46	-
25	0	33	-
30	-	11	-

**COMPONENTS**

Item No.	Description
1	Impeller
2	Shaft
3	Pump Casting
4	Mechanical Seal
5	Ball Bearings
6	Oil Ring
7	Power Cord
8	Oil Filled Motor
9	Motor Housing/ Motor Assembly
10	Motor Cover

**MODEL INFORMATION**

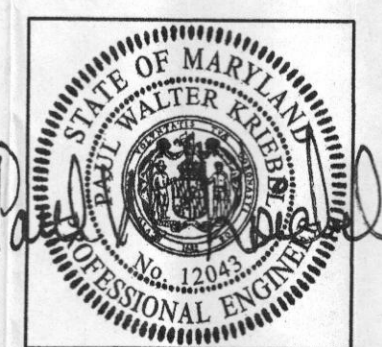
Order No.	HP	Volts	Amps	Minimum Circuit Breaker	Phase	Head Switch Style	Cord Length	Discharge Connection	Minimum On Level	Minimum Off Level	Minimum Basin Diameter	Maximum Solids Size	Shipping Weight (Lbs.)
EP0411						Plug / No Switch	10'	1 1/2"	Manual	Manual	15"		20/9.1
EP0411A	115	12	20			Plugback / Wide-Angle	10'	1 1/2"	Manual	Manual	15"		21/9.5
EP0411F	115	13	20			Plugback / Wide-Angle	20'	1 1/2"	Manual	Manual	15"		20/9.1
EP0411AC	230	6	10			Plugback / Wide-Angle	20'	1 1/2"	Manual	Manual	15"		21/9.5
EP0412	230	6	10			Plug / No Switch	10'	1 1/2"	Manual	Manual	15"		20/9.1
EP0412F	230	6	10			Plug / No Switch	20'	1 1/2"	Manual	Manual	15"		20/9.1
EP0511F	115	13	20			Plug / No Switch	20'	1 1/2"	Manual	Manual	15"		22/10
EP0511AC	230	6.5	10			Plugback / Wide-Angle	20'	1 1/2"	Manual	Manual	15"		23/10.4
EP0512F	230	6.5	10			Plug / No Switch	20'	1 1/2"	Manual	Manual	15"		22/10

**WELL CERTIFICATION:**  
 THE EXISTING WELL, TAG NO. HO-95-1550, HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.

**PROFESSIONAL CERTIFICATION**

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 12043, EXPIRATION DATE: 7/16/16.

Paul W. Kriebel 05-26-15 DATE



**SITE PLAN FOR BAT INSTALLATION  
 THE WARFIELDS II**

14715 LEAR COURT  
 LOT 36  
 SECTION TWO  
 ZONED: RC-DEO

TAX MAP NO.: 27 GRID NO.: 5 PARCEL NO.: 114  
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS NOTED DATE: MAY 26, 2015

Approved Septic System Plan  
 Howard County Health Department  
 Mark Oswald 6/24/15  
 Signature Date