



**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: 1/27/18

**ONSITE SEWAGE DISPOSAL SYSTEM**

P 560579

APPROVAL DATE: 5/22/17 **SEC**

**PERMIT: CONSTRUCTION**

A

PROPERTY ADDRESS: 12348 Howard Lodge Drive

SUBDIVISION: Donald Weisensel

LOT: 7D

TAX ID: 03-298477

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: Earl And Susan Clime

EMAIL: sueclime@gmail.com

OWNER ADDRESS: 6519 Barley Corn Row, Columbia, MD 21044

PHONE: 410-302-4058

BAT UNIT MODEL: Norweco TNTLP 500

PUMP SIZE: 0.75

PUMP TANK CAPACITY: 1500

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: 1/27/17

DATE RECORDED: 1/27/17

DISTRIBUTION SYSTEM:  GRAVITY

PRESSURE DOSED

BEDROOMS: 4

APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>114</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>5.5</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:		

ISSUED BY: Robert Bricker

ISSUE DATE: 1/27/17

EXPIRATION DATE: 1/27/18

- 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 1700661
- 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.**



17348 HOWARD LODGE Rd.  
SYKESVILLE, MD.

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

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

-----  
ement Recording Fee  
1x 20.00 20.00

Name: c:ime  
Ref: 42

LR - Agreement Surcharge  
1x 40.00 0.00

-----  
SubTotal: 60.00  
Total: 60.00  
-----

CRD-Credit 60.00  
Credit Card Confirmation : 258369

01/27/2017 09:58 CC13-LH  
#7686616 /1247/109

~ Thank you for visiting us today ~



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

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 27th day of January, 2017, among Ed T. Clouse, Susan F. Clouse, 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 12348 Howard Lake Dr, in the 03 Election District of Howard County, Maryland, and the deed and subdivision plat of the property is recorded among the Land Records of Howard County, Maryland, Tax Map # 0069, Block #, Parcel # 0306, Deed Reference # 16956 and Tax Account # 298174 ("the Property").

WHEREAS, The Property 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 NARWECO TNT-500.

NOW, THEREFORE, the parties hereto agree as follows:

A. Owner hereby grants to the County the right to enter upon the Property at any reasonable time with prior notice 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.

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 Property 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 Property that the system shall require maintenance or other attention. Upon taking title to the Property, 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.

Bert Ryan 1/27/2017  
Howard County Health Department

Earl T. Clin 1/25/17  
Owner #1 Signature                      Date

EARL T. CLINE 1/25/17  
Owner #1 Print Name

Susan E. Cline 1/25/17  
Owner #2 Signature                      Date

Susan E. Cline  
Owner #2 Print Name

\_\_\_\_\_  
Buyer #1 Signature                      Date

\_\_\_\_\_  
Buyer #2 Signature                      Date

\_\_\_\_\_  
Buyer #1 Print Name

\_\_\_\_\_  
Buyer #2 Print Name

# Back River Pre-Cast, LLC

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

## Letter of Certification

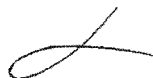
This is to certify that the Norweco Singulair TNT 600 GPD Septic Tank installed at 12348 Howard Lodge Rd., Sykesville, MD 21784 March 13, 2017 was installed according to the manufacture's specifications.

Installer: Mark Seal

Property Owner: Earl Clime

Permit #

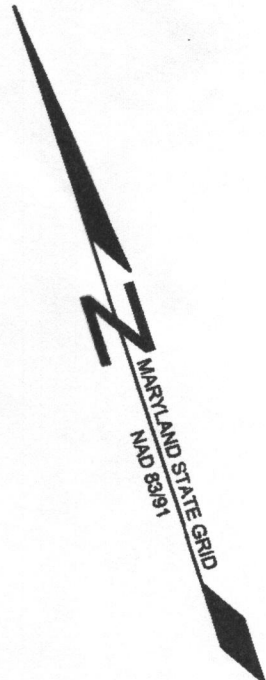
**THIS CERTIFICATION IS FOR INSTALLATION ONLY. THE 5-YEAR OPERATIONS & MAINTENANCE AGREEMENT FROM DATE OF INSTALLATION WILL ONLY GO INTO EFFECT AFTER BACK RIVER PRE-CAST, LLC RECEIVES FINAL AND FULL PAYMENT FOR THE SYSTEM.**



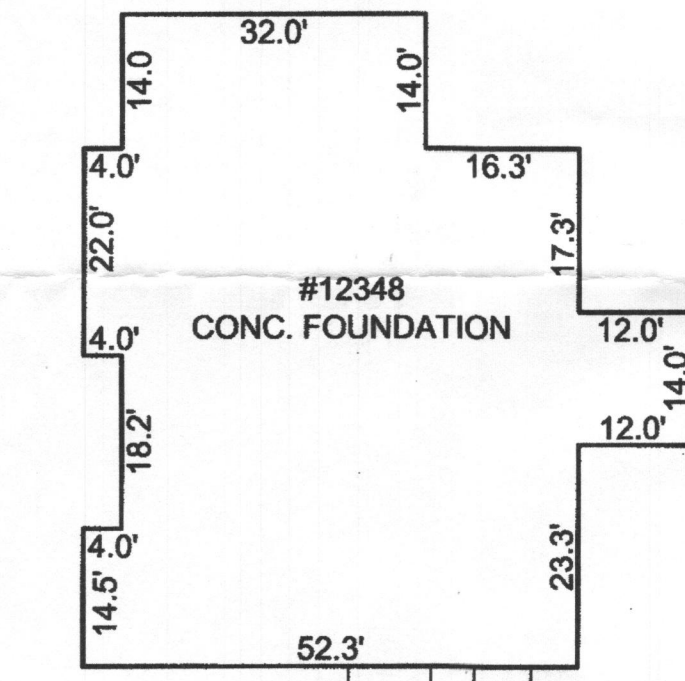
---

MATTHEW GECKLE

Vice-President



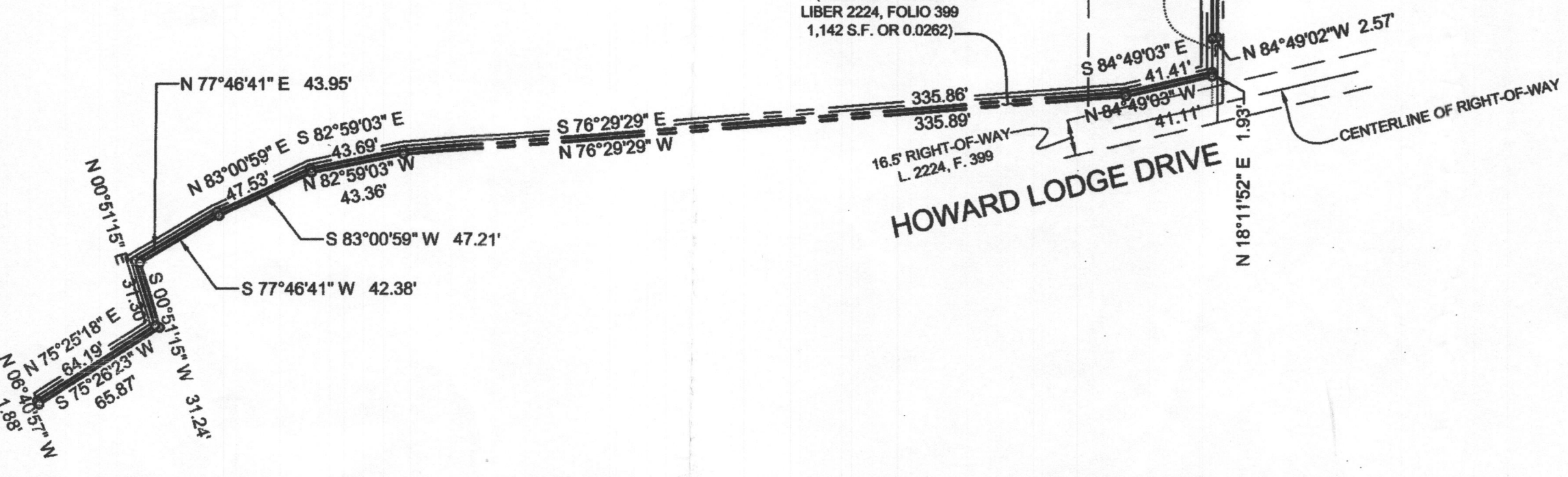
WELL NO.:  
81-1116



AREAWAY  
CHIMNEY

**DETAIL**  
SCALE: 1"=20'

(SECOND PARCEL  
LIBER 2224, FOLIO 399  
1,142 S.F. OR 0.0262)

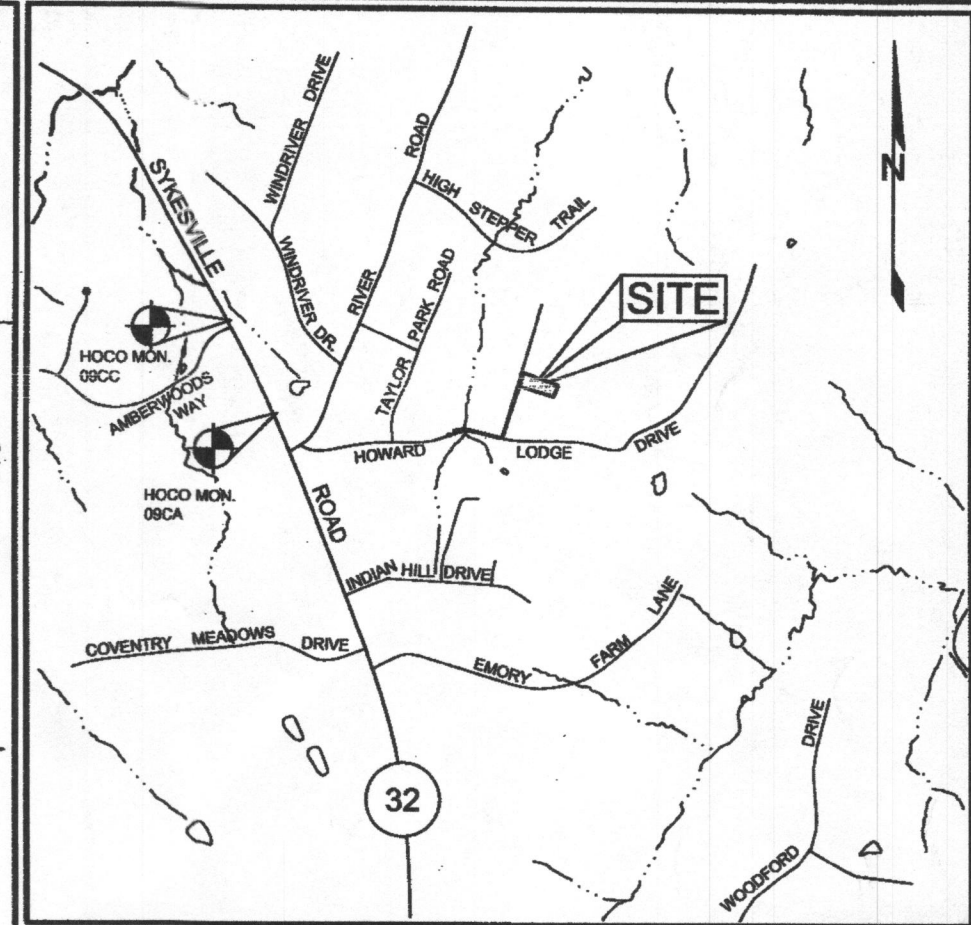


LOT 6-A  
N/F VALERIE ESHLEMAN  
& TIMOTHY ESHLEMAN  
L. 5322, F. 270

LOT 6-B  
N/F  
CHARLES K. CLOPEIN JR.  
& ELLEN V. CLOPEIN  
L. 1174, F. 604

PART OF  
LOT 7-D  
54,724 S.F. OR  
1.2563 AC.±  
FIRST PARCEL  
LIBER 2224, FOLIO 399

LOT 7-C  
N/F  
CHARLES K. CLOPEIN JR.  
& ELLEN V. CLOPEIN  
L. 1986, F. 506



**VICINITY MAP**  
SCALE: 1"=2000'

Wall Check  
OK 1/27/17 RAE

WALL CHECK: 12-13-2016  
TOP OF WALL ELEV. = 539.0'

**GENERAL NOTES**

1. THIS PLAT IS A BENEFIT TO THE CONSUMER ONLY INsofar AS IT IS REQUIRED BY A LENDER OR A TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH CONTEMPLATED TRANSFER, FINANCING OR REFINANCING PURPOSES. THIS PLAT IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATION OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE STRUCTURES. THIS PLAT DOES NOT PROVIDE FOR THE ACCURATE IDENTIFICATION OF PROPERTY BOUNDARY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR FOR SECURING FINANCING OR REFINANCING.
2. THE +/- SETBACK ACCURACY IS 1 FOOT.
3. THIS PLAN OR PLAT IS NOT INTENDED TO SHOW ALL MATTERS RELATED TO THE PROPERTY SHOWN HEREON.
4. B.R.L. = BUILDING RESTRICTION LINE BASED ON APPROVED PLOT PLAN.

AS-CONSTRUCTED SURVEY  
12348 HOWARD LODGE DRIVE  
PART OF LOT 7-D  
**CLIME PROPERTY**

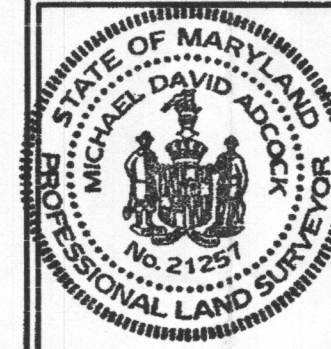
TAX MAP 9 GRID 12  
3RD ELECTION DISTRICT

PARCEL 306  
HOWARD COUNTY, MARYLAND

THIS LOT DOES NOT APPEAR TO LIE WITHIN THE 100 YEAR FLOOD PLAIN AS SHOWN ON THE F.E.M.A. FLOOD HAZARD MAP 24027C-0055-D AS REVISED NOVEMBER 06, 2013.

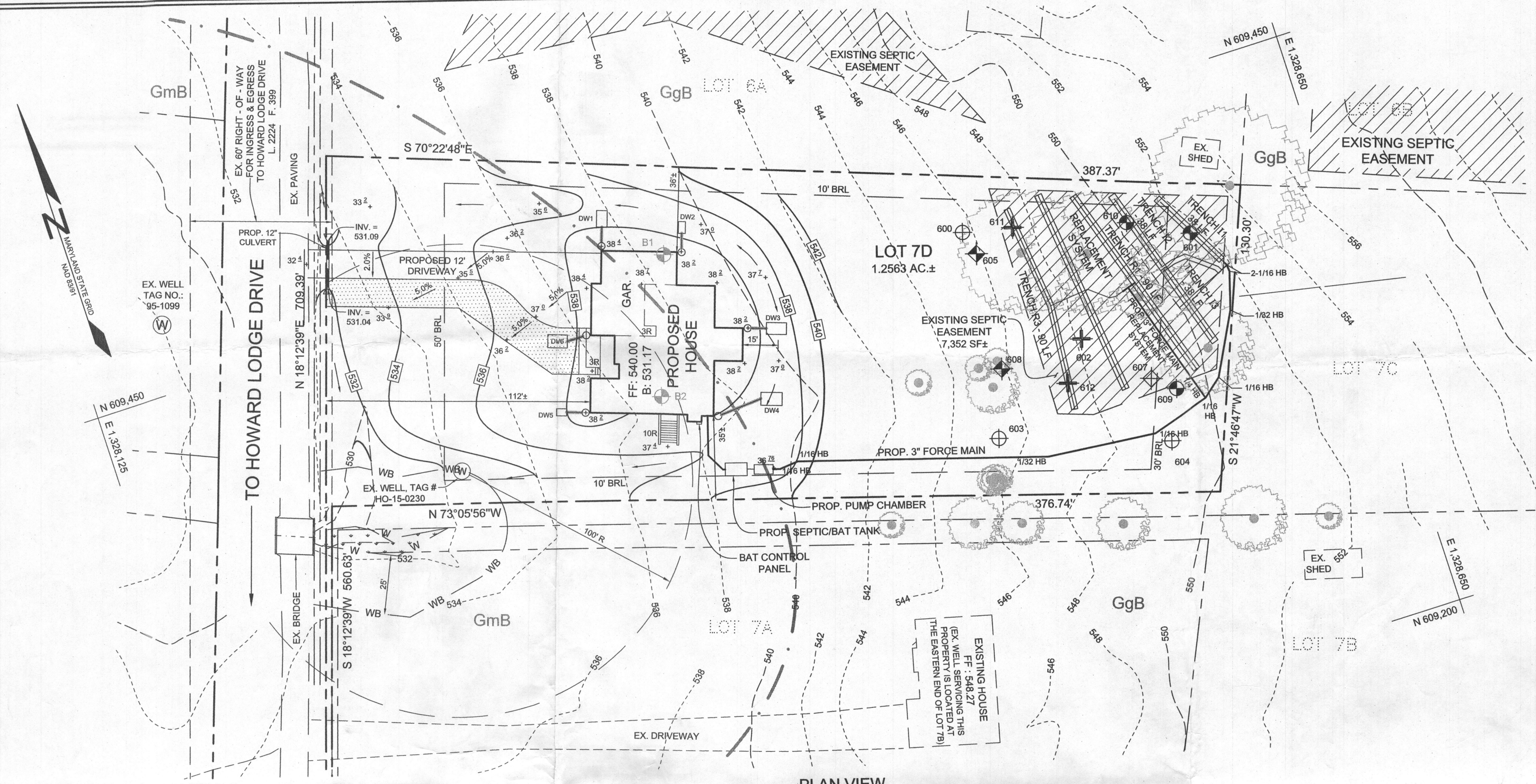
I HEREBY CERTIFY THAT I WAS IN RESPONSIBLE CHARGE OVER THE PREPARATION OF THIS PLAN AND THE SURVEY WORK REFLECTED IN IT, IS IN COMPLIANCE WITH REQUIREMENTS SET FORTH IN THE CODE OF MARYLAND TITLE 9, SUBTITLE 13, CHAPTER 06, REGULATION 12, AND THE POSITION OF EXISTING IMPROVEMENTS AS SHOWN HEREON, ARE CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Michael D. Adcock*  
MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR  
NO. 21257, EXPIRATION DATE: 06-16-2017

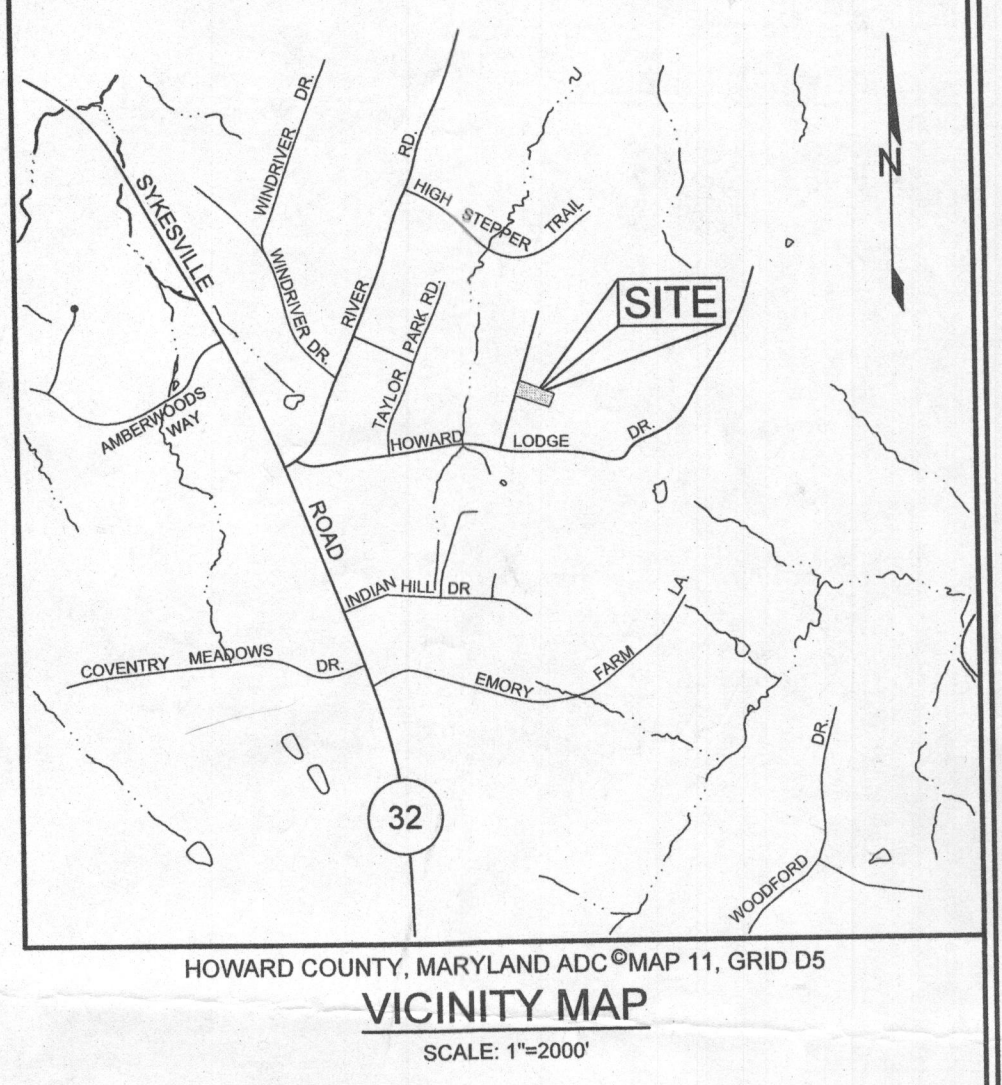
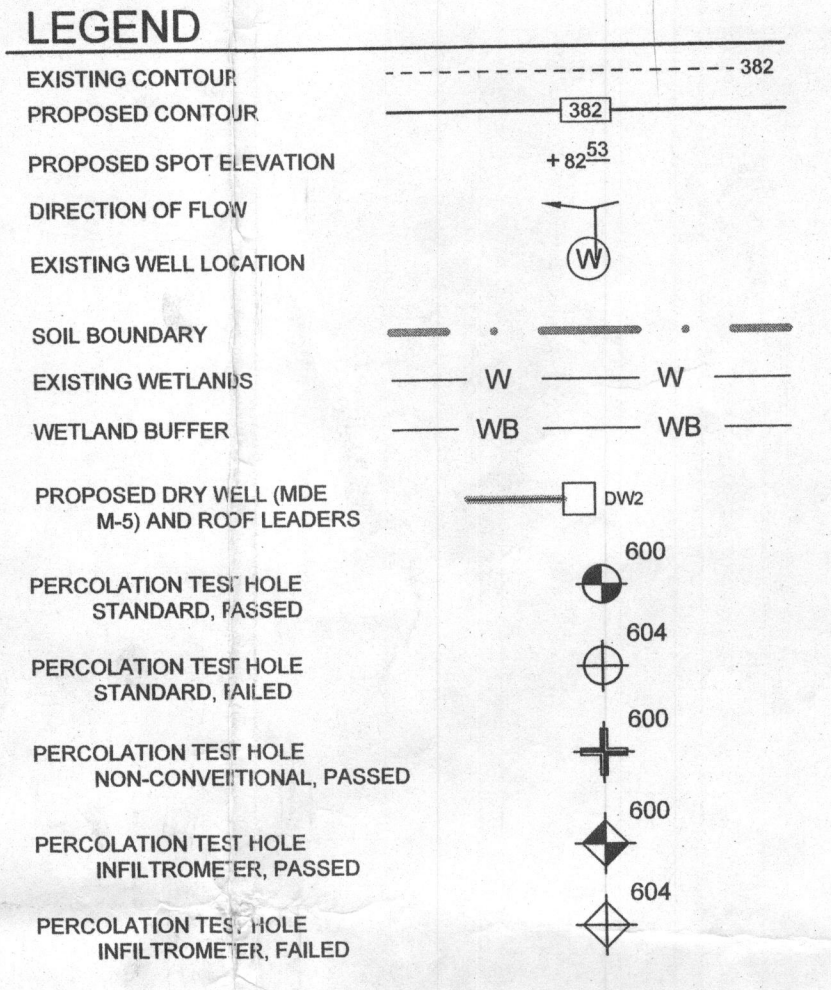


**Adcock & Associates · LLC**  
Engineers · Surveyors · Planners  
3300 North Ridge Road, Suite 160  
Ellicott City, Maryland 21043  
Phone: 443.325.7682 Fax: 443.325.7685  
Email: mike@saaland.com

REFERENCE:	L. 2224, F. 399
DATE:	DECEMBER 20, 2016
SCALE:	1"=50'
FILE NO.:	14-040



PLAN VIEW  
SCALE: 1"=30'



GENERAL NOTES

- SUBJECT PROPERTY ZONED RR-DEO PER 10/06/13 COMPREHENSIVE ZONING PLAN.
- TOTAL AREA OF PROPERTY IS 1.25 AC±.
- PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE.
- THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
- THE BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY ADCKOCK & ASSOCIATES, LLC IN MAY 2015.
- THE TOPOGRAPHY SHOWN HEREON WAS FIELD RUN BY ADCKOCK & ASSOCIATES, IN MAY 2015.
- PROPERTY ADDRESS: 12348 HOWARD LODGE DRIVE
- REFERENCES: LIBER 2224, FOLIO 389
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- THE MARYLAND DEPARTMENT OF THE ENVIRONMENT HAS APPROVED A VARIANCE TO ALLOW THE WELL ON THE SUBJECT PROPERTY, (TAX MAP 9) PARCEL 306, LOT 7D, TO BE DOWNGRADIENT FROM THE SEWAGE DISPOSAL AREAS ON PARCEL 306, LOTS 7D, 6A, AND 6B, AND SEVERAL OTHER LOTS WITHIN A 17.21-ACRE AREA, PURSUANT TO THE FOLLOWING CONDITIONS:
  - A BEST AVAILABLE TECHNOLOGY UNIT FOR REDUCTION OF NITRATE RELEASED FROM THE WASTEWATER EFFLUENT MUST BE INCLUDED IN THE SEPTIC SYSTEM INSTALLATION ON LOT 7D.
  - THE WELL TO BE INSTALLED ON PARCEL 306, LOT 7D MUST HAVE A STEEL CASING THAT EXTENDS TO A 50 FEET DEPTH OR TEN FEET INTO COMPETENT BEDROCK, WHICHEVER IS DEEPER.
  - ALL WASTEWATER DISTRIBUTION SYSTEMS TO BE INSTALLED ON PARCEL 306, LOT 7D MUST BE DESIGNED FOR PRESSURIZED DISTRIBUTION AND INSTALLED AS LOW-PRESSURE DISTRIBUTION OR EQUIVALENT.
- THIS PROJECT IS EXEMPT FROM THE FOREST CONSERVATION ACT SINCE IT IS A SINGLE LOT CLEARING LESS THAN 20,000SF OF FOREST.
- A WETLAND AND STREAM STUDY WAS PERFORMED BY ECO-SCIENCE PROFESSIONALS IN AUGUST 2016. NO WETLANDS OR STREAMS WERE FOUND ON THE PROPERTY. A SMALL WETLAND AREA IS LOCATED ADJACENT TO THE PROPERTY ON LOT 7A. A 25' WETLAND BUFFER HAS BEEN SHOWN AROUND THIS ON THE PLAN.
- LIMIT OF DISTURBANCE: 35,481 SF± OR 0.8145 AC±
- A GRADING PLAN HAS BEEN APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT, GP-17-015.

SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	0.20
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	0.37

- NOTES:
- SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY.
  - HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

Approved Septic System Plan  
Howard County Health Department  
NORWECO THT 5000 w/1500-gal Pump Tank  
3 Gals/hr WS-10-RHF Pump or equivalent

Signature: [Handwritten Signature]  
Date: 1/24/2017

OWNER/DEVELOPER

EARL AND SUSAN CLIME  
6519 BARLEY CORN ROW  
COLUMBIA, MD 21044  
410-302-4055

BAT INSTALLATION PLAN

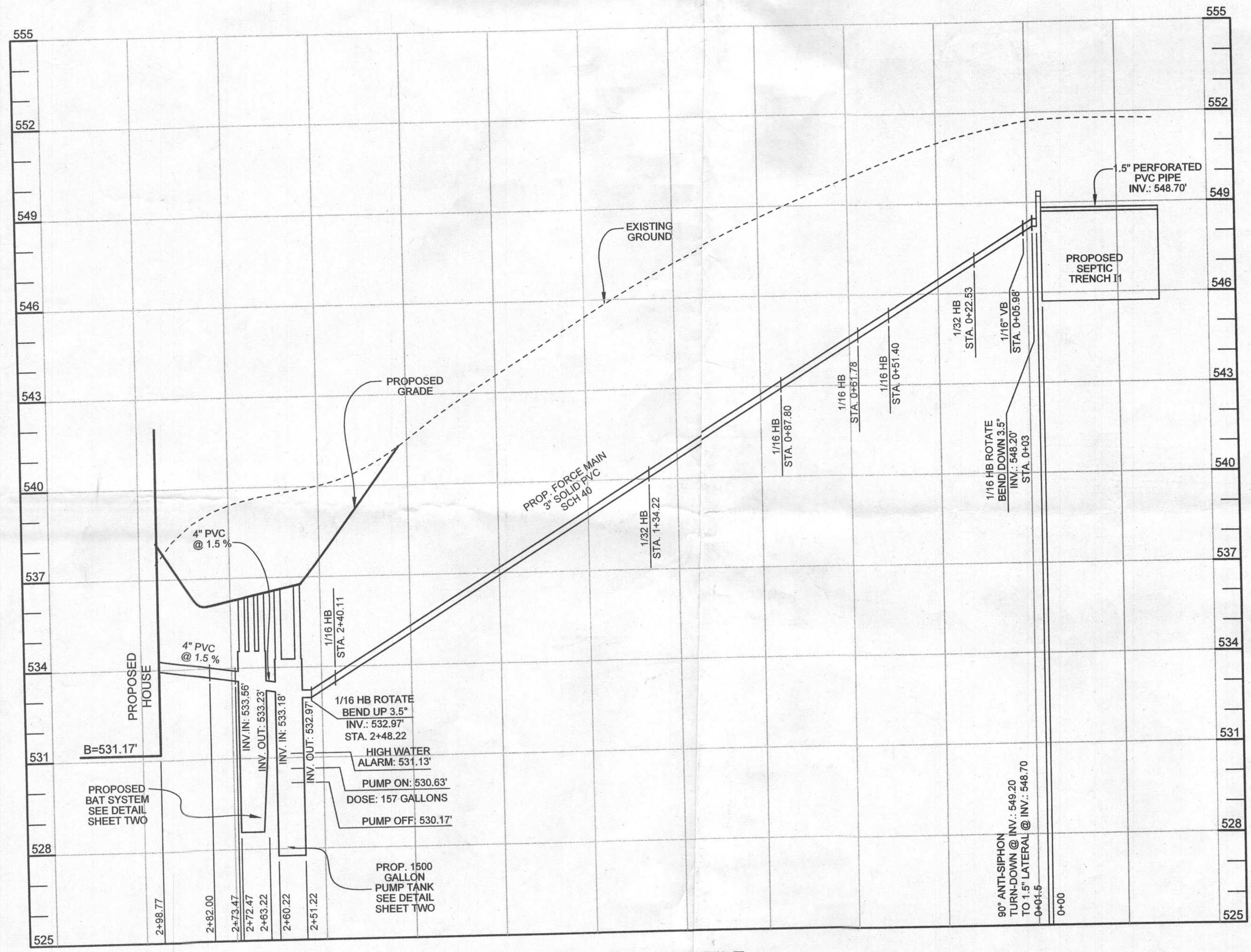
CLIME PROPERTY  
LOT 7D, 12348 HOWARD LODGE DRIVE  
ZONED RR-DEO

TAX MAP 9 GRID 12  
3RD ELECTION DISTRICT  
PARCEL 306  
HOWARD COUNTY, MARYLAND

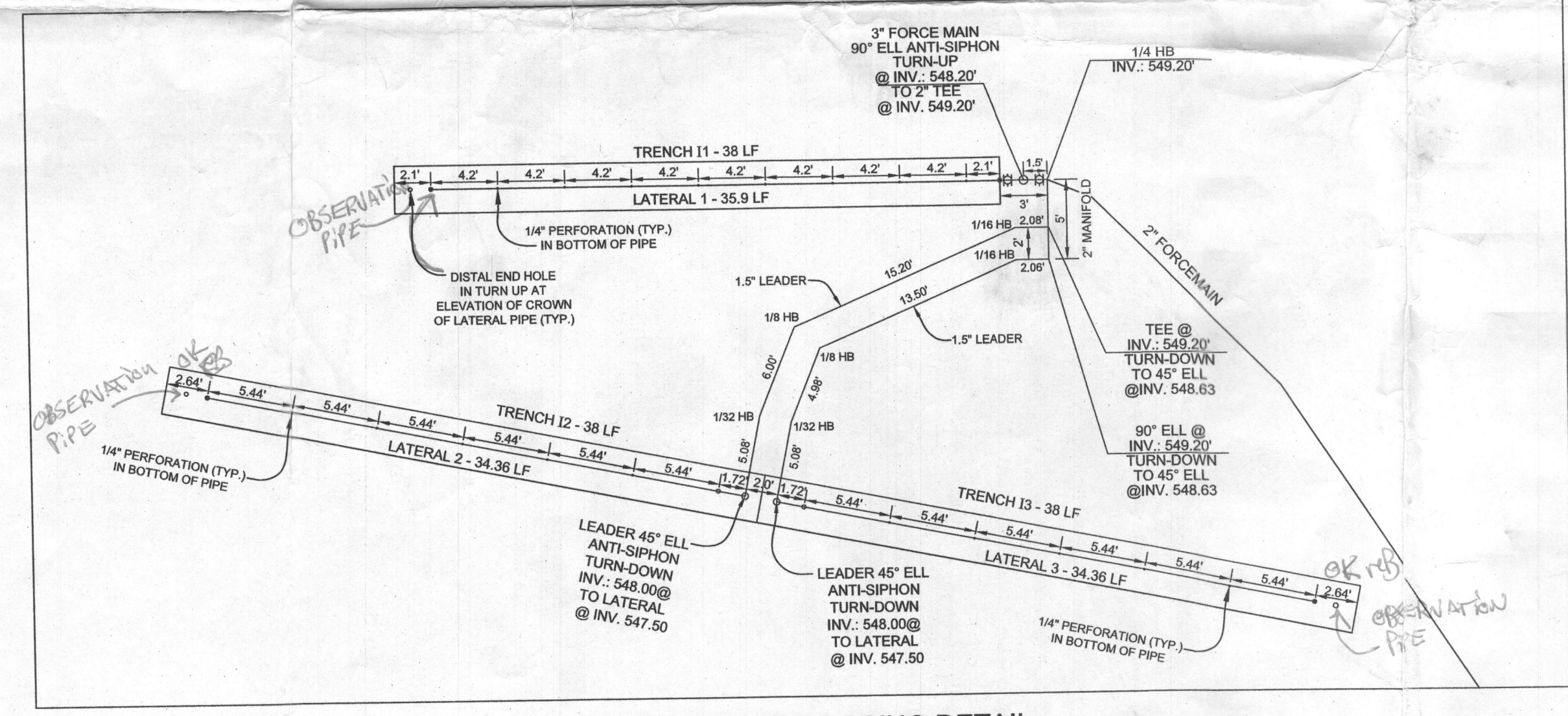
**SILL ENGINEERING GROUP, LLC**  
11130 Dovedale Court, Suite 200  
Marriottsville, Maryland 21104  
Phone: 443.325.5076  
Fax: 410.696.2022  
Email: info@sillengineering.com  
Civil Engineering for Land Development

DESIGN BY: PS  
DRAWN BY: PS/AEA  
CHECKED BY: PS  
SCALE: AS SHOWN  
DATE: JANUARY 19, 2016  
PROJECT #: 16-026  
SHEET #: 1 of 2

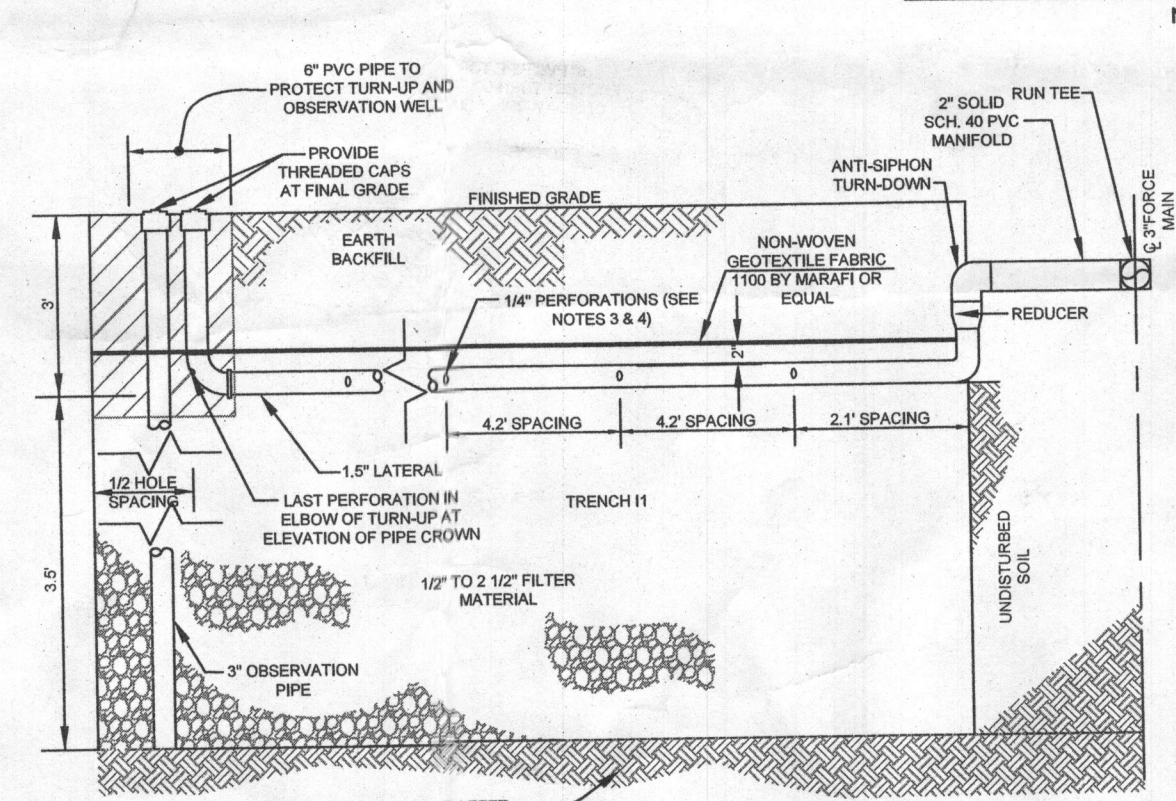
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 30265, EXPIRATION DATE: JUNE 30, 2017



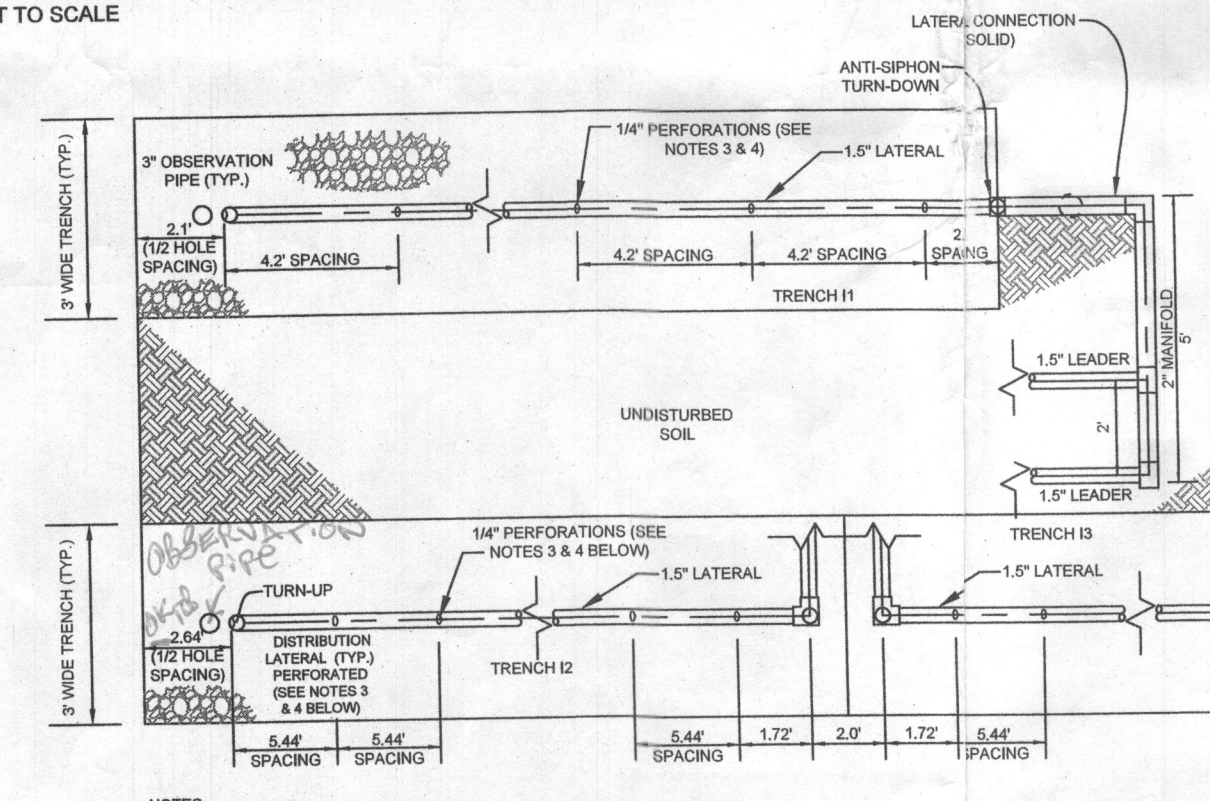
BAT SYSTEM PROFILE  
HORIZONTAL SCALE: 1"=7'  
VERTICAL SCALE: 1"=4'



LOW PRESSURE DOSING DETAIL  
NOT TO SCALE



DISTRIBUTION LATERAL PROFILE DOSING FIELDS  
NOT TO SCALE



DOSING FIELD TRENCH DETAIL  
NOT TO SCALE

- NOTES:
- CONTRACTOR TO BUILD/INSTALL 3" WIDE DISPOSAL TRENCHES.
  - DISTRIBUTION LATERALS TO BE INSTALLED ON LEVEL GRADE. BOTTOM OF TRENCH TO BE EXCAVATION LEVEL GRADE.
  - CONTRACTOR TO DRILL HOLES IN DISTRIBUTION LATERALS AS SHOWN. INSTALL PIPE HOLES DOWNWARD.
  - THE LAST HOLE IN THE LATERALS MUST BE LOCATED AT THE CROWN OF THE INVERT.



**APPLICATIONS**  
Specifically designed for the following uses:  
• Homes • Water transfer  
• Sewage systems • Light industrial  
• Dewatering/Effluent • Commercial applications  
Anywhere waste or drainage must be disposed of quickly, quietly and efficiently.

**SPECIFICATIONS**  
**Pumps**  
• Solids handling capabilities: 2" maximum.  
• Capacities: up to 220 GPM.  
• Total heads: up to 81 feet TDH.  
• Discharge size: 2" NPT threaded companion flange as standard. 3" option available but must be ordered separately. (Order no. A1-3)  
• Temperature: 104°F (40°C) continuous 140°F (60°C) intermittent.

**MOTORS**  
• Fully submerged in high grade turbine oil for lubrication and efficient heat transfer. All ratings are within the working limits of the motor.  
• Class B insulation on 1/2-1 1/2 HP models.  
• Class F insulation on 2 HP models.

**Single phase (60 Hz):**  
• Capacitor start motors for maximum starting torque.  
• Built-in overload with automatic reset.  
• STOW or STOW severe duty oil and water resistant power cords.  
• 1/2 - 1 HP models have NEMA three prong grounding plugs.  
• 1 1/2 HP and larger units have bare lead cord ends.  
• Class 10 overload protection must be provided in separately ordered starter unit.  
• STOW power cords all have bare lead cord ends.  
• Designed for Continuous Operation: Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.  
• Bearings: Upper and lower heavy duty ball bearing construction.  
• Power Cable: Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20' optional lengths are available.  
• Motor Cover O-ring: Assures positive sealing against contaminant and oil leakage.

