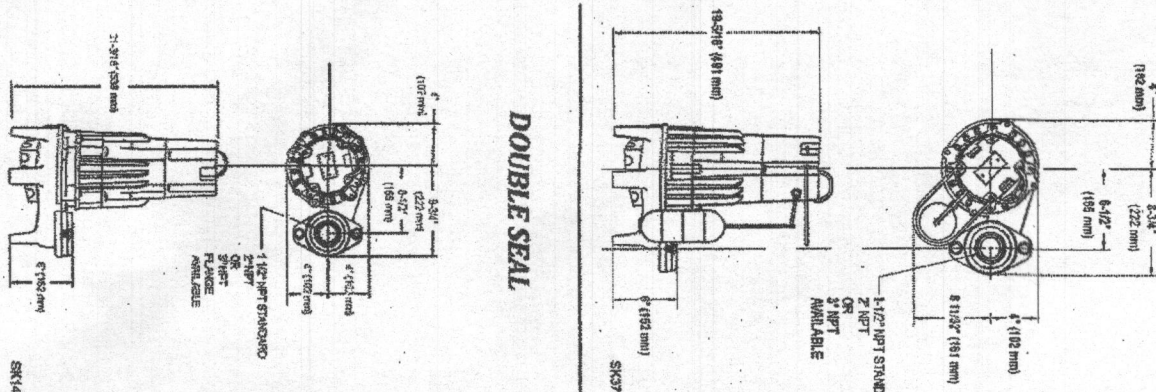


SINGLE SEAL

*Single models are built with a carbon steel motor shaft, and double seal models are built with a stainless steel motor shaft.



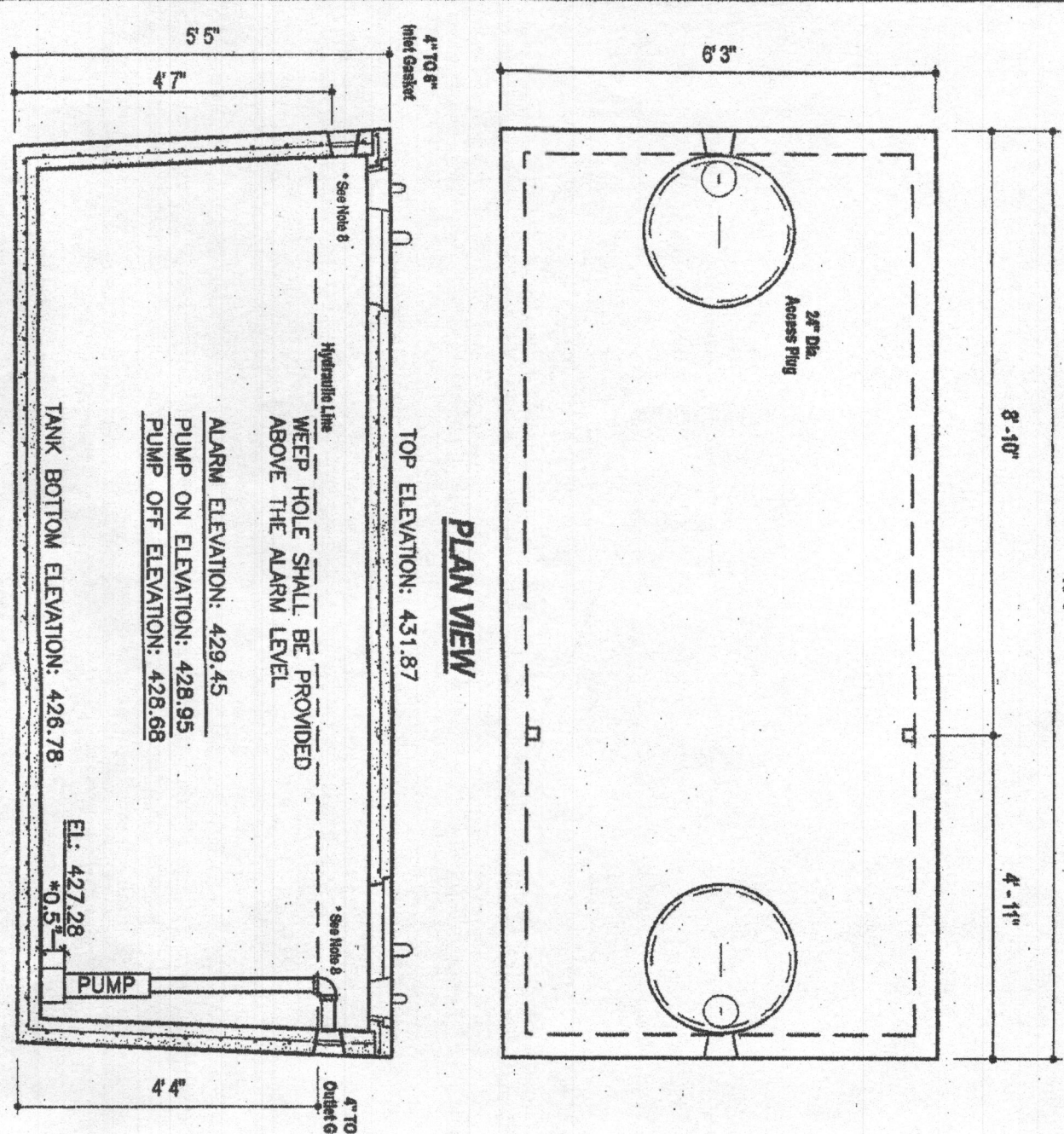
19 Cane Run Road

[illegible]

1. Integral float operated mechanical switch, no external control required.
2. For automatic use single piggyback variable level float switch or double piggyback variable level float switch. Refer to FM047.
3. For automatic use single piggyback variable level float switch or double piggyback variable level float switch. Refer to FM047.
4. See FM1228 for correct model of simplex control panel.
5. See FM0712 for correct model of duplex control panel.

CAUTION
All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All electrical and safety codes should be followed including the most recent American National Standards Code (NEC) and the Department Safety and Health Act (OSHA).

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502-738-2731 • 800-828-7887 • 3643 Cane Run Road | Louisville, KY 40211-1861 | www.zoellner.com

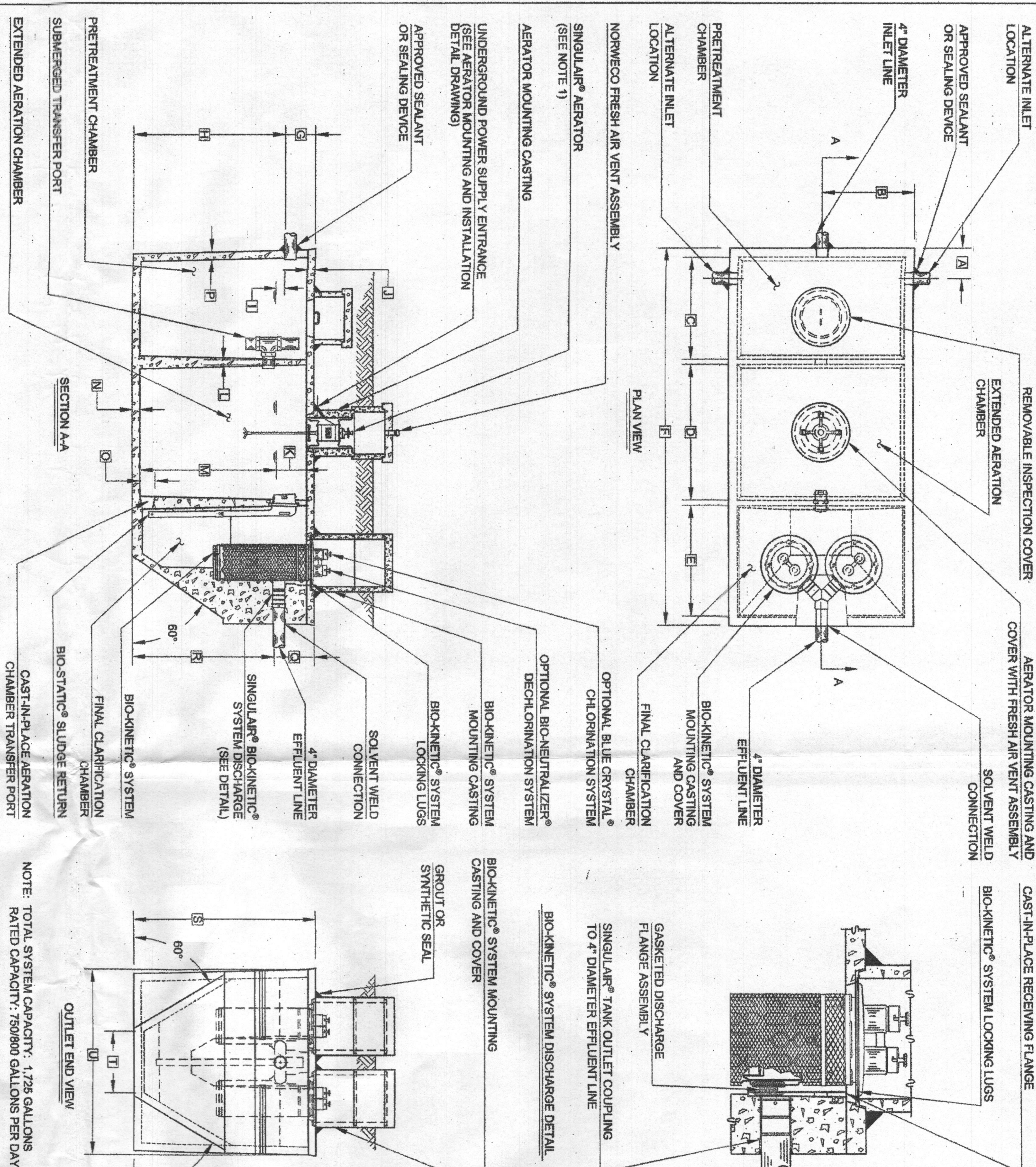
[illegible]

MB 6841 Ross Road
Elkhart, Indiana 29075
Tel. 410.726.4564
Fax 410.726.5488
www.mayrpbros.com

4,000 GALLON SELF-LOADING 1-COMPARTMENT

Stock then (Approx. 19,000 lbs)

Dwg. No. 2006-1C	No scale	Aug 4, 2008
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- ① SINGLE-UP AERATOR, AS TESTED AND ACCEPTED BY NFM.
- ② FALL THROUGH SINGLE-UP PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TWELVE INCHES BELOW TANK TOP.
- ③ ON DEEPER INSTALLATIONS, PRECAST RISERS MUST BE USED TO EXTEND EXISTING RISERS TO THE TOP OF THE BLANKETING SYSTEM, MOUNTING CASTING TO RIGID INSPECTION COVER ON PRETREATMENT CHAMBER MUST BE DEVELOPED TO WITHIN TWELVE INCHES OF GRADE.
- ④ TANK REINFORCED TO AAS STD. 318.
- ⑤ REMOVE ALL EXCESSIVE RISERS, IN EXCESS OF SEVENTY-FIVE POUNDS EACH TO PREVENT UNAUTHORIZED ACCESS.

⑥ CONTACT THE LOCAL, LICENSED SINGULAR® DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS.

CONTRACTOR'S CERTIFICATION:
I (WE) HEREBY CERTIFY THAT THIS
DRAWING HAS BEEN CHECKED AND IS
APPROVED FOR USE IN CONFORMITY
WITH THE CONTRACT DOCUMENTS.

DATE: _____
NAME: _____

CRITICAL DIMENSIONS

A	1'-0"	N	0'-3"
B	3'-0"	O	0'-6"
C	3'-4"	P	0'-3"
C	4'-5"	C	4'-4"

E	3'-7"	R	4'-8"
F	12'-2"	S	6'-0"
G	1'-0"	T	2'-0"

I	0°-3"	N	
J	0°-3"	M	
K	1°-0"	X	

M	4'-6"	ZI	
U.S. AND FOREIGN	norweco®	Model No.	No.
		Drawing #	N

DATE	4-25-20	PC-5-71
TIME	N	
LOCATION	MODEL 980L P-750GPD	
DESCRIPTION	WASTEWATER TREATMENT SYSTEM	
STATUS	PENDING	

NOTE:
RATED CAPACITY: 750 GALLONS
DAY PER MANUFACTURER.

SEE MANUFACTURER SPECIFICATIONS FOR DETAILS. WWW.NORMECO.COM

THE DETAILS SHOWN HEREON ARE

CONTRACTOR TO VERIFY THAT
MANUFACTURER MAY DIFFER
PROVIDED BY NORWECO, ACTU
ON TYPICAL MANUFACTURES DRAM

COMMISSION ARE IN COMPLIANCE WITH
HEALTH DEPARTMENT REQUIREMENTS

Professional Certification. I hereby certify
I was prepared or approved by me, and that
professional engineer under the laws of the
license No. 45577. Expiration Date: 06-01-



PROFESSIONAL ENGINEER
No. 435577

--	--

WATER PROPERTY
LOT 3

14176 TRIADELPHIA MILL ROAD
TAX MAP: 27 - GRID: 24 - PARCEL: 68
ZONED: RR-DEO RURAL RESIDENTIAL
SECTION DISTRICT NO. 5 - HOWARD COUNTY, MD

SEPTEMBER 2017	PROJECT NO.
----------------	-------------

NONE	SHEET <u>2</u>
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GENERAL NOTES

1. THE LOT SHOW HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE "HARWARD STATE DEPARTMENT OF THE ENVIRONMENT."
2. THE NAME OF THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 S.F. AS REQUIRED BY THE "HARWARD STATE DEPARTMENT OF THE ENVIRONMENT." THE AREA IS TO BE USED FOR THE DISPOSAL, IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THE COUNTY HEALTH OFFICER SHALL HAVE THE RIGHT TO INSPECT AND APPROVE ANY SUCH IMPROVEMENTS. THE PRIVATE SEWAGE DISPOSAL, RECOGNITION OF A MODIFIED SEWAGE TREATMENT PLANT SHALL NOT BE REQUIRED.
3. TOPOGRAPHY SHOWN WITHIN THE LOT LIMIT OF DISTURBANCE IS BASED ON HOWARD COUNTY GIS, 2 FOOT CONTOURS, AND VERIFIED WITH FIELD RUN TOPOGRAPHY BY BENCHMARK ENGINEERING, INC., IN JULY, 2017.
4. TO THE BEST OF OUR KNOWLEDGE, ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELL AND/OR SEPTIC HAVE BEEN SHOWN.
5. ANY CHANGES TO A PRIVATE SEWAGE TREATMENT SHALL REQUIRE A REVERSED REGISTRATION CERTIFICATION PLAN, STORMWATER MANAGEMENT FOR THIS LOT COMPLIES WITH THE "HARWARD DEPARTMENT OF THE ENVIRONMENT, STORMWATER MANAGEMENT ACT OF 2007" AND THE "HOWARD COUNTY DESIGN MANUAL, VOLUME 1, CHAPTER 5," AND MINIMUM 10% PERCENTILES. THEY ARE PRIVATELY OWNED AND PRIVATELY MAINTAINED.
6. A RECOGNITION OF SEPTIC TRENCHES ARE IDENTIFIED AS FOLLOWS:
A. FEET OF POSEB) SHALL BE IDENTIFIED WITH 1922
7. A PORTION OF POSEB) SHALL BE IDENTIFIED WITH 1922
8. PROPERTY ACREAGE: (LOT 3) 3.59 AC., ZONED RR-DCO.
9. PROPOSED LIMIT OF DISTURBANCE: 330 AC.
10. PREPARED STATE DEPARTMENT OF THE ENVIRONMENT, CONDUCTED BY BENCHMARK ENGINEERING, INC., IN FEBRUARY, 2017, AND IS PROVIDED AS PART OF THE SUBMITTED ENVIRONMENTAL CONCEPT PLAN SUBMISSION.
11. SPECIMEN TREES HAVE BEEN FIELD IDENTIFIED BY BENCHMARK ENGINEERING, INC. AND ARE DEPICTED ON THIS PLAN.
12. THE EXISTING WELL SHOWN (756 #40-17-0198) SHOWN ON THIS PLAN HAS BEEN FIELD IDENTIFIED BY BENCHMARK ENGINEERING, INC. DECEMBER, 2017 AND IS ACCURATELY SHOWN.
13. EXIST LENGTH OF SEPTIC TRENCHES IS TO BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
14. ANY CHANGES TO THE LOCATION 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.
15. THE MAXIMUM EARTH COVER OVER THE SEPTIC TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.

REQUIRED 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 SHALL BE PER THE MANUFACTURER'S SPECIFICATION.
3. THE BLOWER MAY NOT BE LOCATED FURTHER FROM THE TANK THAN THE MANUFACTURER'S SPECIFICATIONS.
4. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
5. THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
6. WITHIN ONE MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE MARYLAND DEPARTMENT OF THE ENVIRONMENT AND GENERAL SERVICES (DENV) THE ADDRESS AND DATE OF COMPLETION OF THE BAT INSTALLATION AND THE TYPE OF BAT INSTALLED.
7. ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
8. AN AGREEMENT AND WARRANT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OF HOWARD COUNTY.
9. THE HEALTH DEPARTMENT REQUIRES CERTIFICATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.

INITIAL SYSTEM

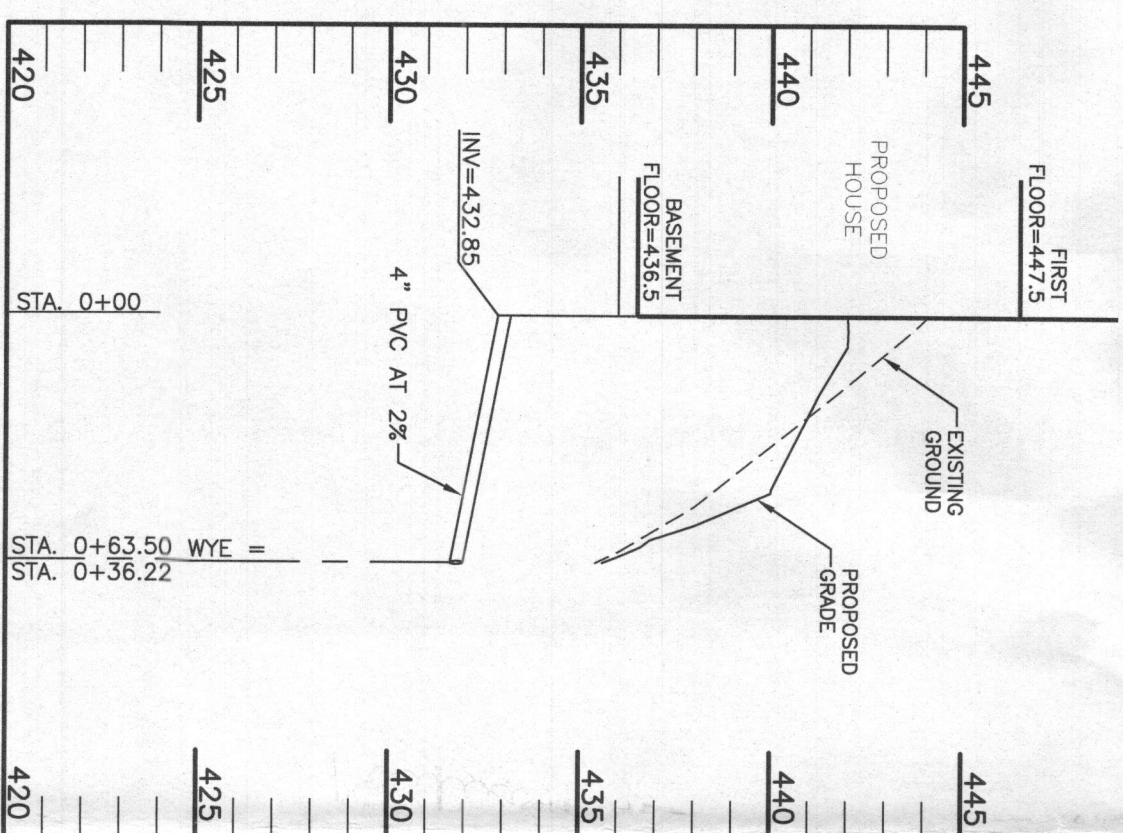
INITIAL SYSTEM			
Number of Bedrooms	6		
Application Rate	1.2	gpd/s/ft	
Effective Area Beginning Depth	2	ft	
Bottom Max Depth	6	ft	
Design Flow	900	gpd	
Drainage Field square footage	750	sf	
Sidewall reduction credit	0.417		
Trench width	3		
Effective Area Depth	4		
Lineal length of trench Required	104	lf	

1st REPLACEMENT SYSTEM

1st REPLACEMENT SYSTEM			
Number of Bedrooms	6		
Application Rate	1.2	gpd/sf	
Effective Area Beginning Depth	2	ft	
Bottom Max Depth	6	ft	
Design Flow	900	gpd	
Drainage Field square footage	750	sf	
Sidewall reduction credit	0.417		
Trench width	3		
Effective Area Depth	4		
Linear length of trench Required	104	ft	

2nd REPLACEMENT SYSTEM

2nd REPLACEMENT SYSTEM			
Number of Bedrooms	6		
Application Rate	1.2	gpd/sf	
Effective Area Beginning Depth	2	ft	
Bottom Max Depth	6	ft	
Design Flow	900	gpd	
Drainage Field square footage	750	sf	
Sidewall reduction credit	0.417		
Trench width	3		
Effective Area Depth	4		
Linear Length of trench Required	104	ft	



LOT 3 SEPTIC PROFILE - HOUSE
SCALE: 1"=50' HORIZ., 1"=5' VERT

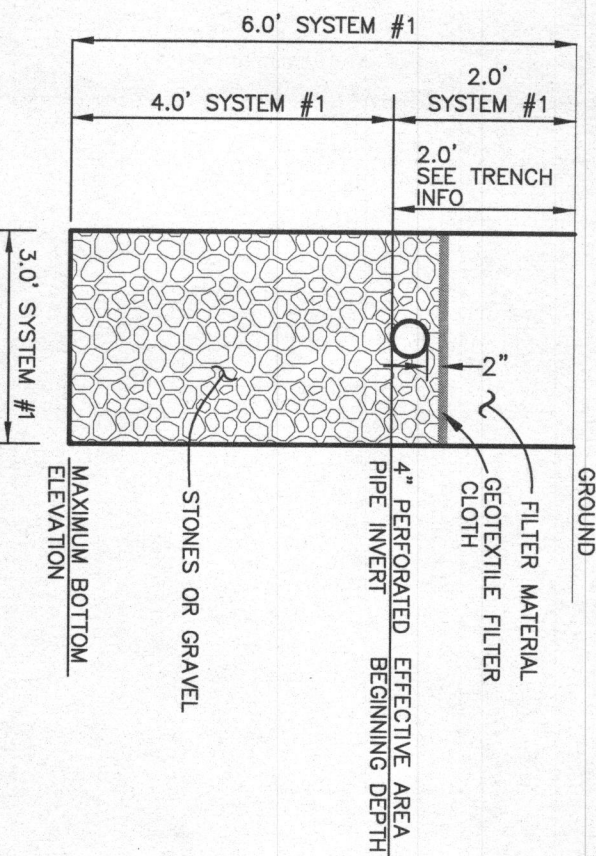
SOILS LEGEND

SOILS LEGEND		
SYMBOL	TYPE	NAME
Ca*	C	COODRUS AND HARBORO SILT LOAM, 0 TO 3 PERCENT SLOPES
		37**
GgC	B	GLENNIE LOAM, 3 TO 8 PERCENT SLOPES
BgC	B	32
		MANOR LOAM, 8 TO 15 PERCENT SLOPES
MO	B	37**
		MANOR LOAM, 15 TO 25 PERCENT SLOPES

* INDICATES HYDRIC SOILS

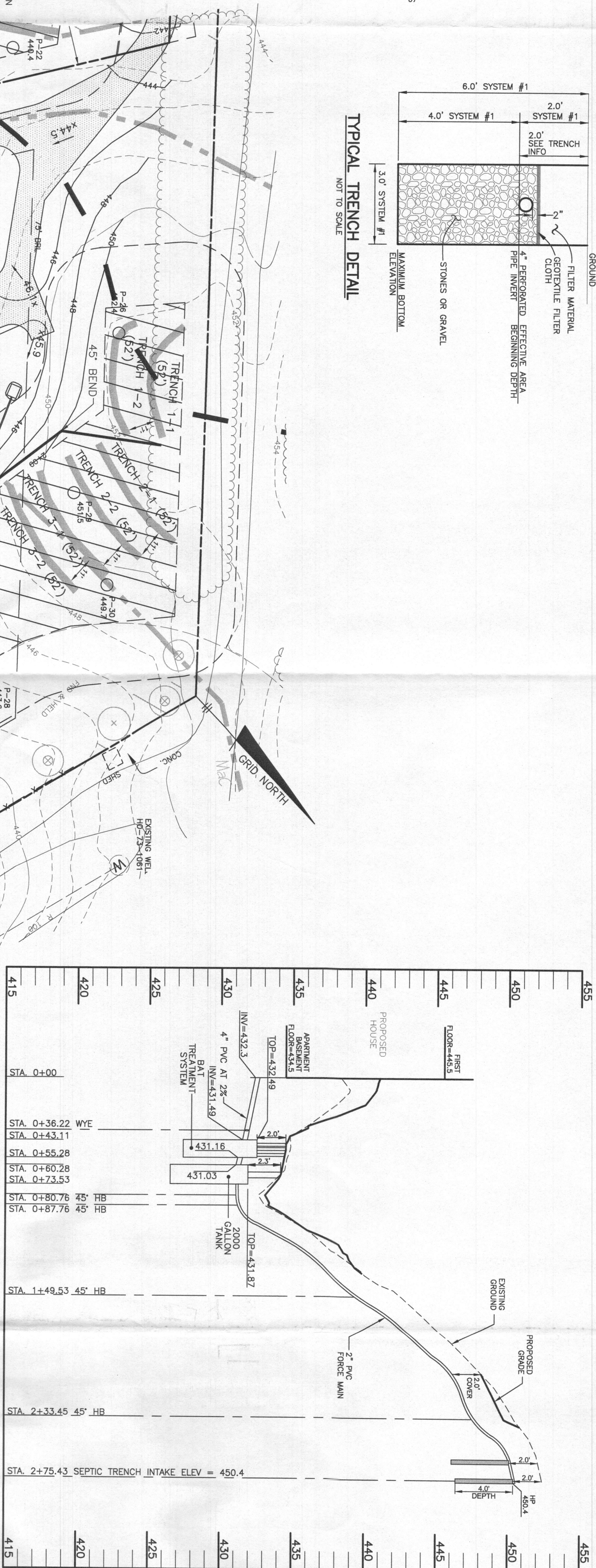
** HIGHLY ERODIBLE, >>0.35, AND/OR 15% OR GREATER SLOPES

PAGE FROM THE NILES WEB SOIL SURVEY, APRIL 2016. PAGE 15



TYPICAL TRENCH DETAIL
NOT TO SCALE

NOT TO SCALE



LEGEND

- SOLS CLASSIFICATION
 SOLS DELINEATION
 EXISTING CONTOURS
 EXISTING WOODS LINE
 EXISTING WELL
 PROPOSED WELL
 PROPOSED PERCOLATION TEST
- 480' ———
 ——— 478' ———
 ~~~~~  
 (W)  
 PROPOSED WELL BOX
- CMB

### FAILING PERCOLATION TEST

### EXISTING STRUCTURE

### PROPOSED STRUCTURE

PROPOSED SEWER DISPOSAL AREA

24.99% SLOPES

LA: 100 15th 1500F-DALL

CONSTRUCTION INSPECTION DIVISION

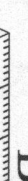
NOTIFY "MISS UTILITY" AT 1-4

THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF ANY WORK.

THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.

REDUNE OK  
12/17/2008 (7)

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. 45577, Expiration Date: 06-08-2018.



**BENCHMARK**  
ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE SUITE 315 • ELLICOTT CITY, MARYLAND 21044  
(717) 410-4653-8105 (717) 410-460-4644  
WWW.BE-CAL.ENGINEERING.COM

PROJECT:

# VAWTER PROPERTY

ELLEN M. VAWTER,  
MICHAEL A. VAWTER,  
NANCY J. VAWTER,  
LAURA J. LEONARD,  
DREW B. LEONARD  
4170 TRIADLEPHIA MILL ROAD  
DAYTON, MARYLAND 21036  
301-706-6044

LOCATION: 14176 TRIADELPHIA MILL ROAD  
TAX MAP: 27 - GRD: 24 - PARCEL: 68  
ZONED: RR-DEO RURAL RESIDENTIAL  
ELECTION DISTRICT NO. 5 - HOWARD COUNTY, MARYLAND

TITLE: SEPTIC SYSTEM DESIGN PLAN

|        |                |             |      |
|--------|----------------|-------------|------|
| DATE:  | DECEMBER, 2017 | PROJECT NO. | 2766 |
| SCALE: | AS SHOWN       | SHEET       | 1    |

|    |          |                                                          |
|----|----------|----------------------------------------------------------|
| NO | DATE     | REVISION                                                 |
| 1  | 11/29/18 | REVISED TO DOCUMENT ADDITIONAL HOUSE CONNECTION AS-BUILT |

DESIGN: ID

DRAFT

|    |       |
|----|-------|
| ON | CHECK |
|----|-------|

|   |       |
|---|-------|
| M | CCALF |
|---|-------|

AC 311013 3A

[illegible]

1