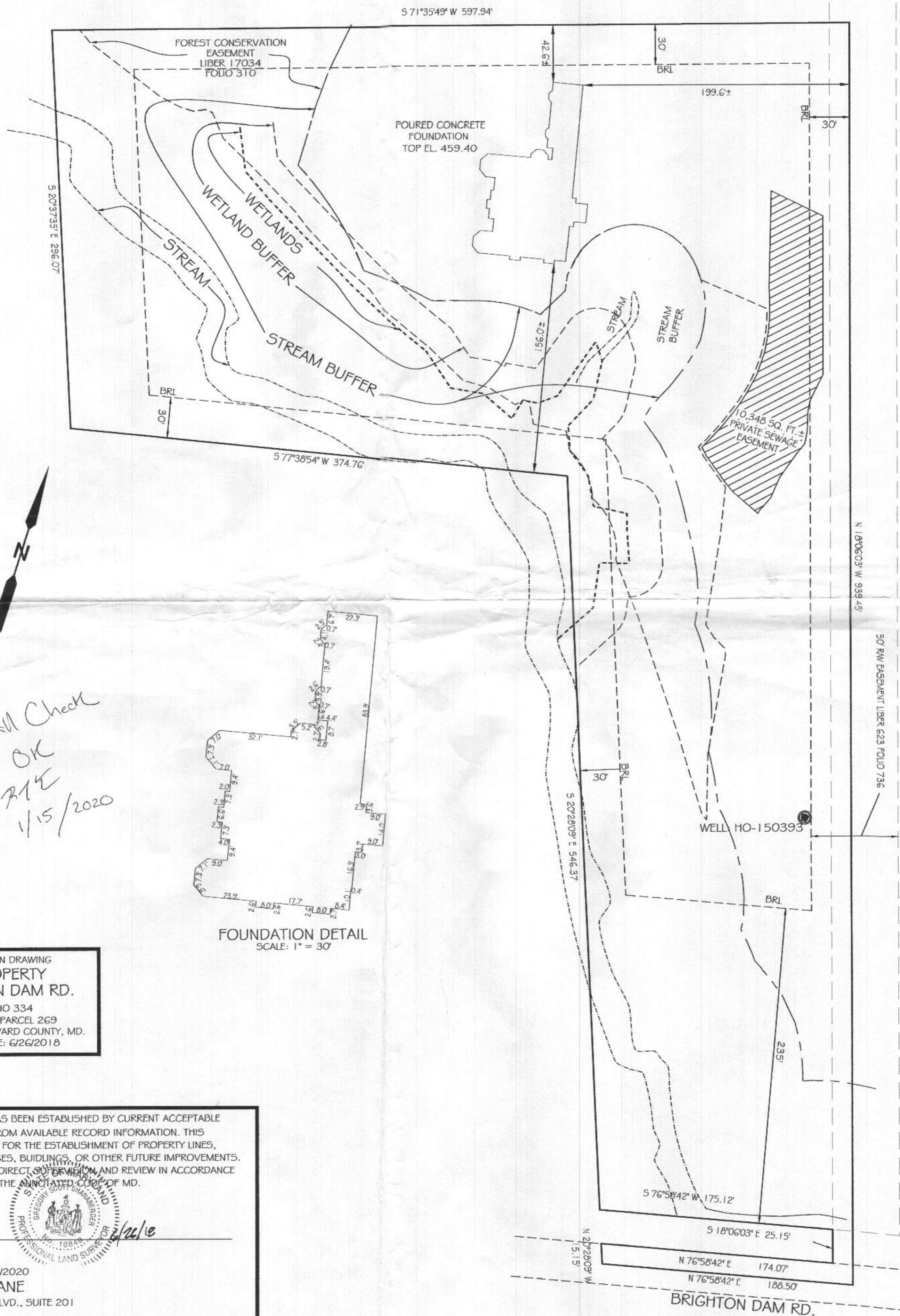
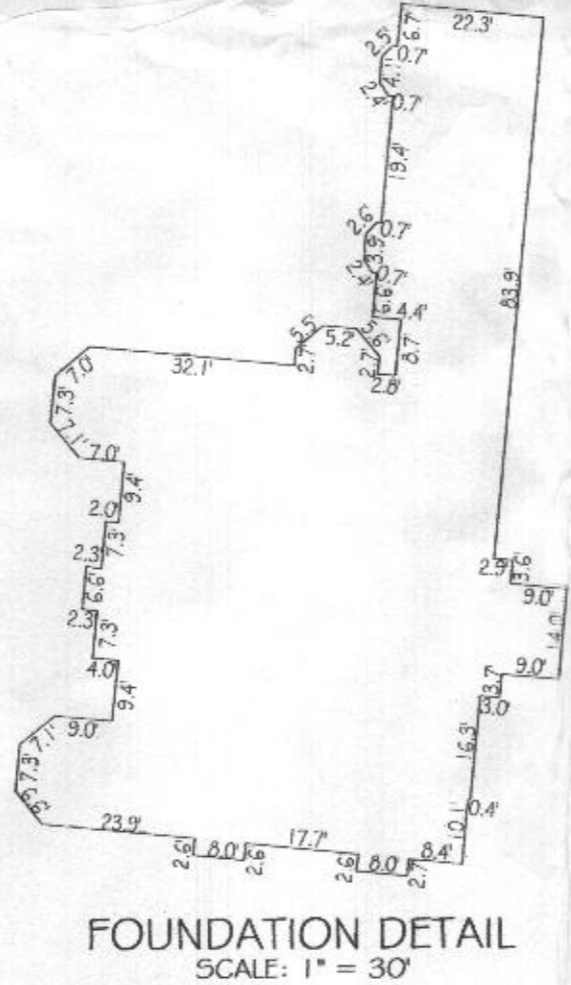


NOTES:

1. ACCURACY OF BUILDING MEASUREMENTS: 0.1'
2. ACCURACY OF SETBACK DIMENSIONS: 0.1'
3. SETBACKS SHOWN ARE FROM FOUNDATION TO PROPERTY LINE.
4. ACCURACY OF ELEVATIONS: 0.1'
5. THE PROPERTY SHOWN HEREON LIES IN ZONE "X" AS SHOWN ON FLOOD INSURANCE RATE MAP NO. 24027C0130D DATED: 11/06/2013.
6. BEARINGS AND DISTANCES SHOWN HEREON ARE FROM A BOUNDARY SURVEY BY SHANABERGER & LANE.



*Wall Check
OK
RLE
1/15/2020*



FOUNDATION LOCATION DRAWING
KURICHH PROPERTY
 12942 BRIGHTON DAM RD.
 LIBER 15560, FOLIO 334
 TAX MAP 34 GRID 10 PARCEL 269
 5th ELECTION DISTRICT HOWARD COUNTY, MD.
 SCALE: 1"=100' DATE: 6/26/2018

THE INFORMATION SHOWN HAS BEEN ESTABLISHED BY CURRENT ACCEPTABLE SURVEY PROCEDURES AND FROM AVAILABLE RECORD INFORMATION. THIS DRAWING IS NOT TO BE USED FOR THE ESTABLISHMENT OF PROPERTY LINES, LOCATION OF FENCES, GARAGES, BUILDINGS, OR OTHER FUTURE IMPROVEMENTS. IT WAS PREPARED UNDER MY DIRECT SUPERVISION AND REVIEW IN ACCORDANCE WITH SFC. 09.13.06.06. OF THE ANNOTATED CODE OF MD.

Scott Shanaberger
 G. SCOTT SHANABERGER
 PROFESSIONAL L.S. 10849
 LICENSE EXPIRATION DATE 4/2/2020
SHANABERGER & LANE
 8726 TOWN AND COUNTRY BLVD., SUITE 201
 ELLICOTT CITY, MD. 21043
 (410)461-9563 FAX: (410)461-9693



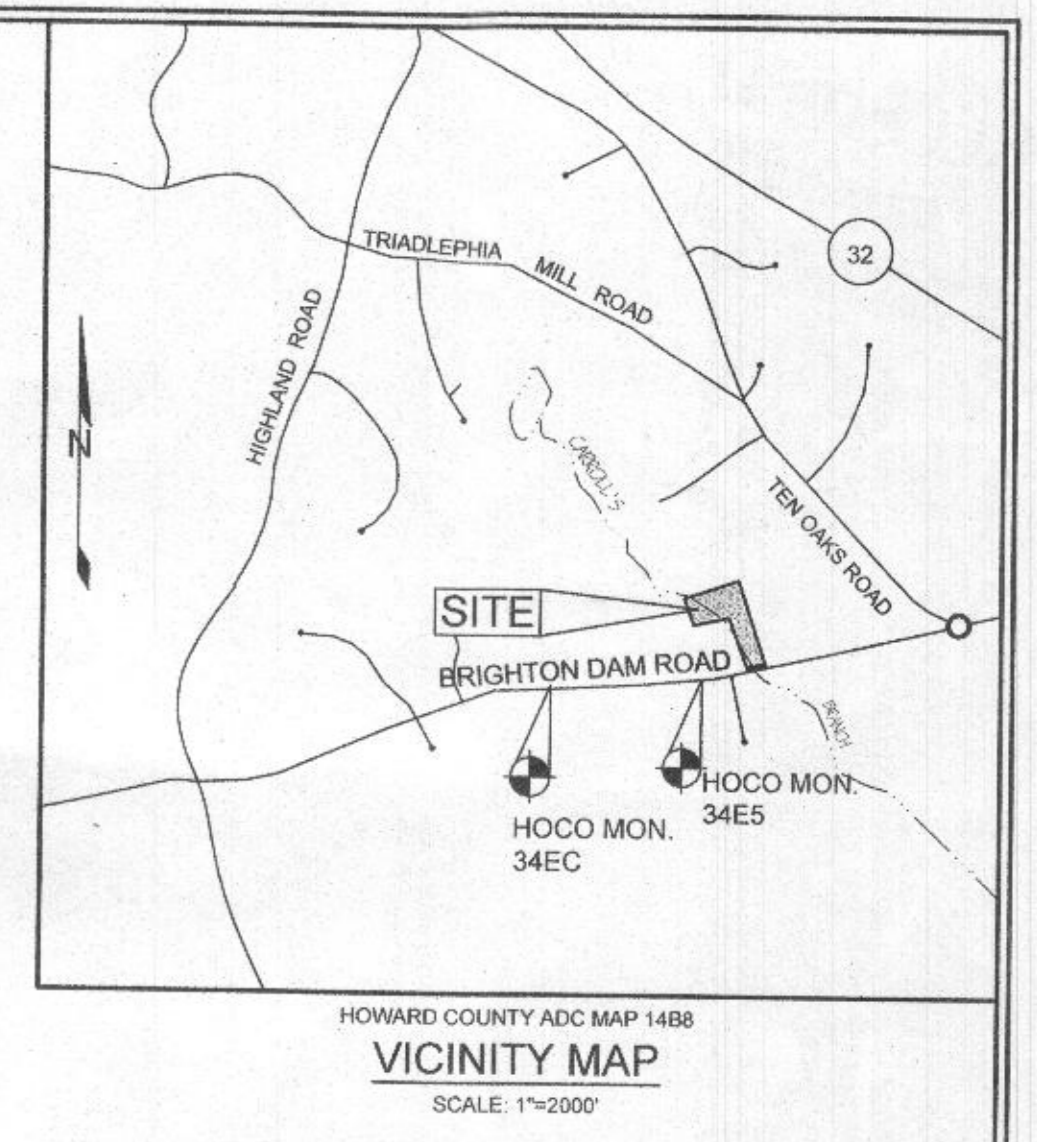
N 560,675
E 1,322,375

N 560,675
E 1,322,350

N 559,950
E 1,322,375

LEGEND

- EXISTING CONTOUR
- EXISTING TREELINE
- PROPOSED TRIELINE
- PROPOSED SPOT ELEVATION
- EX. APPROXIMATE WELL LOCATION
- SOIL BOUNDARY
- HYDROLOGIC SOIL GROUP 'B'
- HYDROLOGIC SOIL GROUP 'C'
- HYDROLOGIC SOIL GROUP 'D'
- PROPOSED WELL LOCATION
- EX. PERENNIAL STREAM
- EX. INTERMITTENT STREAM
- EX. WETLAND BUFFER
- PROPOSED DRY-WELL
- SPECIMEN TREES
- PASSED PERCOLATION TEST LOCATION



BENCHMARKS				
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
34E5	559,538.08	1,322,535.82	490.445	7.2' NORTHWEST FROM VERIZON BOX, 11.5' SOUTH OF CENTER OF BRIGHTON DAM RD.
34EC	559,469.75	1,320,470.71	496.454	5.5' NORTH FROM EDGE OF BRIGHTON DAM RD, 0.45 MILES EAST OF HOWARD RD.

SOILS LEGEND				
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR	
GgB	GLENELO LOAM, 3-8% SLOPES	C	0.28	
GgC	GLADSTONE LOAM, 8-15% SLOPES	B	0.28	
GnB	DALE SILT LOAM, 0-3% SLOPES	C	0.37	
GbB	GLENNVILLE BAILE SILT LOAMS, 0-3% SLOPES	C	0.43	
Ha	HATBORO-CORDORUS SILT LOAM, 0-3% SLOPES	D	0.37	

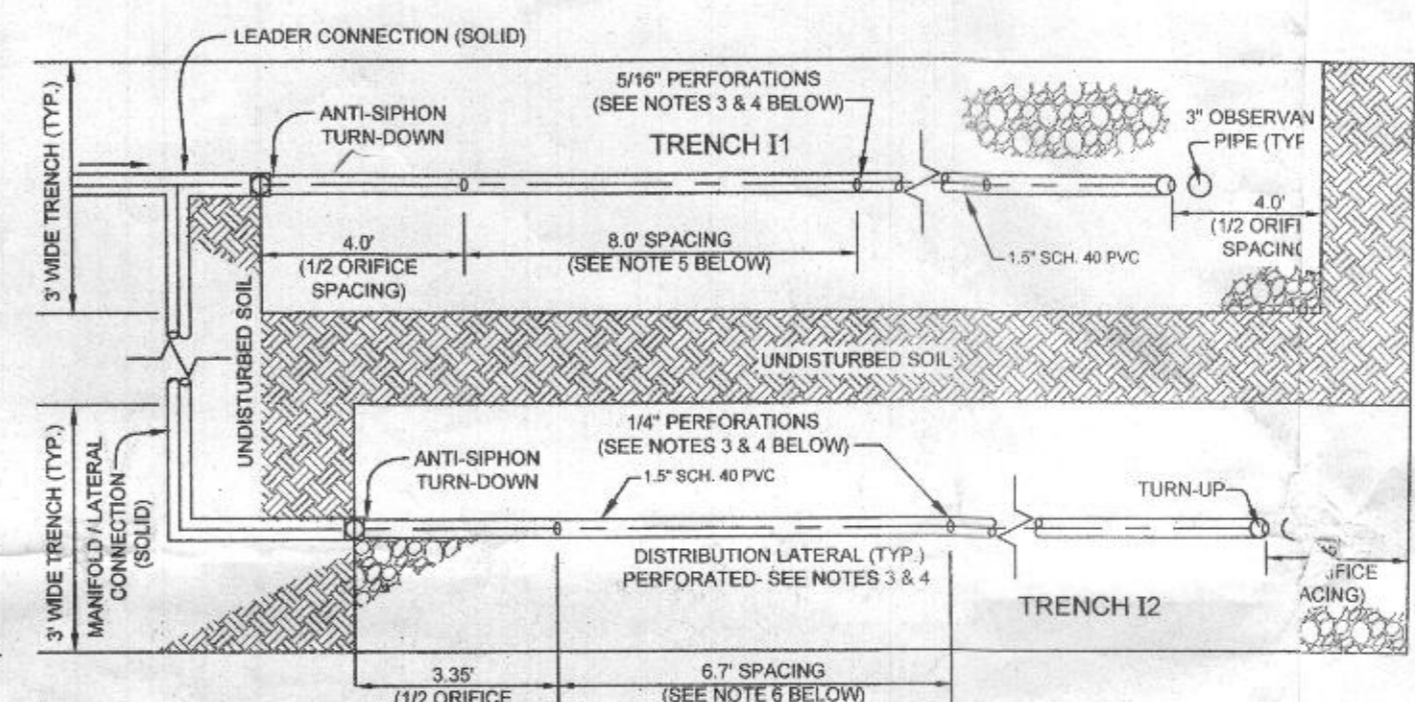
NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY, SOIL GRID 7, SUB-GRID 292.
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

GENERAL NOTES

- SUBJECT PROPERTY ZONED RR-DEO PER 02/02/04 COMPREHENSIVE ZONING PLAN.
- TOTAL AREA OF PROPERTY = 7.0 AC ±.
- PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE.
- THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SF 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 KURICHH PROPERTY WAS FIELD SURVEYED BY SHANBERGER & LANE, INC. IN AUGUST 2014. OFFSITE TOPOGRAPHY SHOWN HEREON IS HOWARD COUNTY AERIAL TOPOGRAPHY FLOWN IN 2004.
- PROPERTY ADDRESS: 12942 BRIGHTON DAM ROAD, CLARKSVILLE 21029
- REFERENCES: LIBER 15560, FOLIO 334
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS HAVE BEEN LOCATED USING AVAILABLE RECORD DRAWINGS OR HAVE BEEN FIELD LOCATED.
- LIMIT OF DISTURBANCE: 48,170 SQ. FT.

BAT NOTES

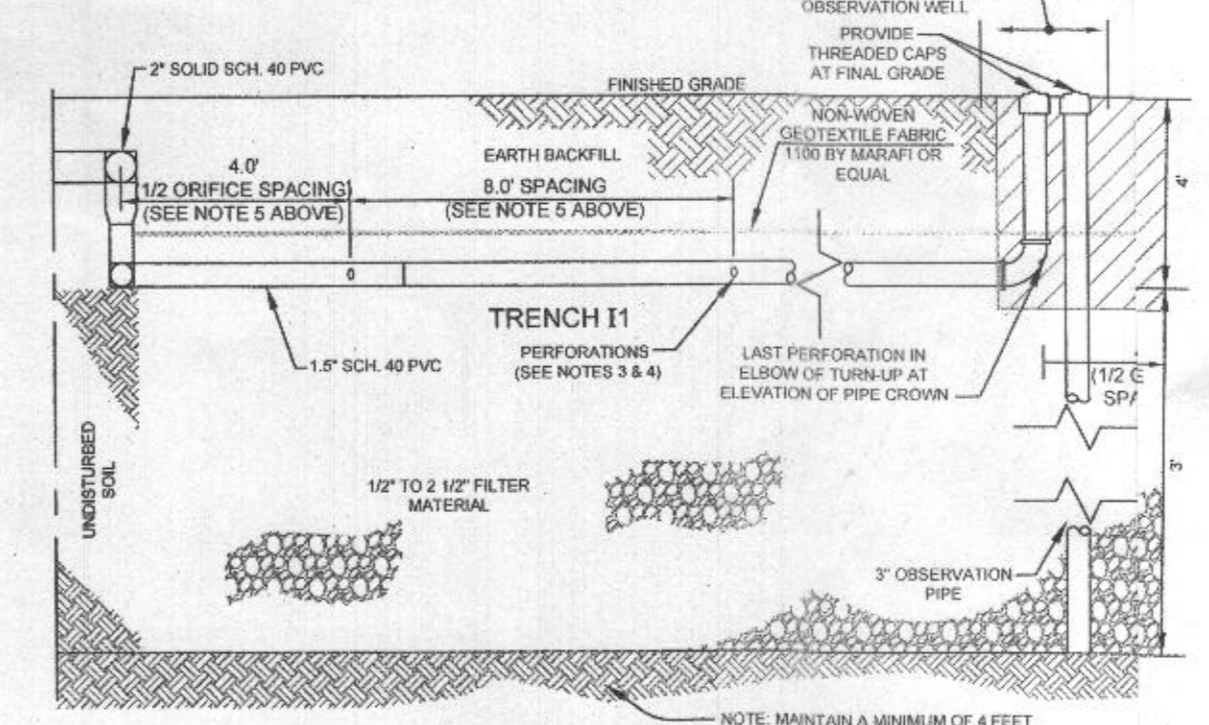
- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 5 FEET. THE BLOWER MAY NOT BE LOCATED MORE THAN 50 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 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.
- ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OF HOWARD COUNTY.
- THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.
- DOSE TO BE 125 GALLONS ON A PUMP RUN TIME OF 3.8 MINUTES.
- PUMP TO BE A MYERS MW501P SERIES OR EQUIVALENT, MODEL MW501P WITH TETHERED AUTOMATIC SWITCHES AND A 115 VOLT POWER REQUIREMENT IS RECOMMENDED.
- BAT SYSTEM TO BE A NORWECO SINGULAR MODEL TMTL-P-500 OR EQUIVALENT.



- NOTES:
 1. CONTRACTOR TO BUILD / INSTALL 3" WIDE DISPOSAL TRENCHES.
 2. DISTRIBUTION LATERALS TO BE INSTALLED ON LEVEL GRADE, BOTTOM OF TRENCH TO BE EXCAVATED ON LEVEL GRADE.
 3. CONTRACTOR TO DRILL ORIFICES IN DISTRIBUTION LATERALS AS SHOWN, INSTALL PIPE ORIFICE DOWNWARD.
 4. THE LAST HOLE IN THE LATERALS MUST BE LOCATED AT THE CROWN OF THE INVERT.
 5. PERFORATION SPACING IS FOR TRENCH 11. SEE LOW PRESSURE DOSING DETAIL (THIS SHEET) FOR SPACING OF RENCHES.
 6. PERFORATION SPACING SHOWN IS FOR TRENCH 12. SEE LOW PRESSURE DOSING DETAIL (THIS SHEET) FOR SPACING OF RENCHES.

DOSING FIELD TRENCH DETAIL

NOT TO SCALE
The terms 'orifice' and 'perforation' are interchangeable.



DISTRIBUTION LATERAL PROFILE DOSING FIELD

NOT TO SCALE

SEPTIC SYSTEM TRENCH DESIGN SPECIFICATIONS

- INITIAL SYSTEM:
 - APPLICATION RATE: 0.8
 - EFFECTIVE AREA BEGINNING DEPTH: 4'
 - BOTTOM MAXIMUM DEPTH: 7'
- REPLACEMENT SYSTEM 1:
 - APPLICATION RATE: 0.8
 - EFFECTIVE AREA BEGINNING DEPTH: 3'
 - BOTTOM MAXIMUM DEPTH: 7'
- DESIGN FLOW:
 - 5 BEDROOMS AT 150 GPD
 - 5X150 GPD = 750 GPD
- SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:
 - DESIGN FLOW (750 GPD) / APPLICATION RATE (0.8) = 937.5 SF
- SIDEWALL REDUCTION CREDIT:
 - TRENCH WIDTH (W) = 3'
 - TRENCH EFFECTIVE DEPTH (D) = 3'
 - (W+2) / (W+2D) X 100 = 0.500%
- LINEAR LENGTH OF TRENCH REQUIRED:
 - DRAIN FIELD SQUARE FOOTAGE (937.5) X SIDEWALL REDUCTION CREDIT (0.5%) / TRENCH WIDTH (3') = 156.25' USE 160'
- LINEAR LENGTH OF TRENCH PROVIDED = 160'
- FOUR TRENCHES @ 40 LF
- EXISTING GRADE:
 - TRENCH 11: 467.0'
 - TRENCH 12: 465.3'
 - TRENCH 13: 463.0'
 - TRENCH 14: 460.0'
 - TRENCH 11: 463.0'
 - TRENCH 12: 461.3'
 - TRENCH 13: 459.0'
 - TRENCH 14: 456.0'
- INVERT:
 - TRENCH 11: 457.5'
 - TRENCH 12: 456.0'
 - TRENCH 13: 454.0'
 - TRENCH 14: 451.0'
 - TRENCH 11: 454.5'
 - TRENCH 12: 453.0'
 - TRENCH 13: 451.0'



PARCEL 269
7.0086 ACRES

PLAN VIEW
SCALE: 1"=50'

SITE PLAN FOR BAT INSTALLATION
KURICHH PROPERTY
 PARCEL 269

TAX MAP 34 GRID 10
 5TH ELECTION DISTRICT

PARCEL 269
 HOWARD COUNTY, MARYLAND

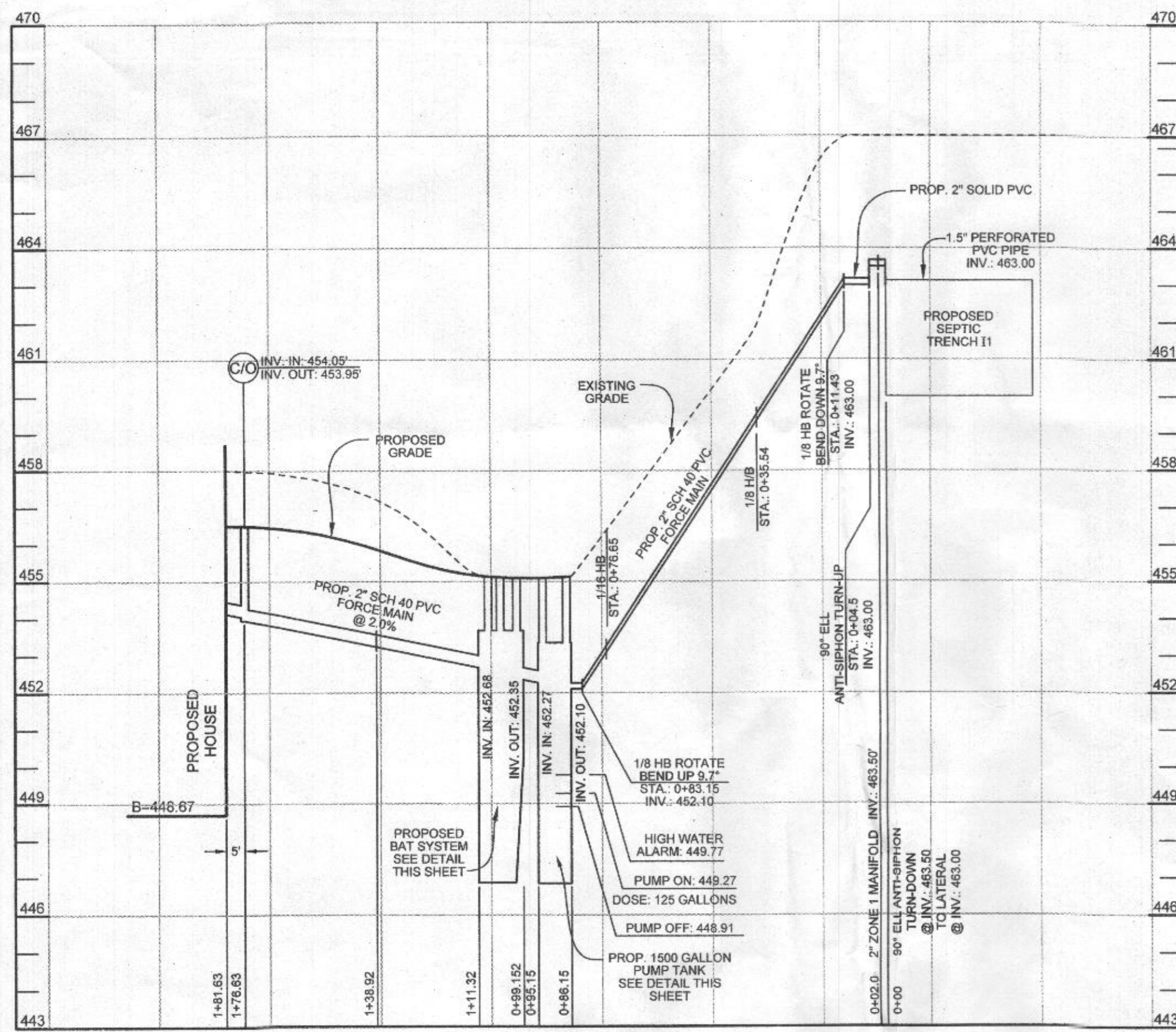
DESIGN BY: PS
 DRAWN BY: K2/AEA
 CHECKED BY: PS
 DATE: AS SHOWN
 SCALE: JANUARY 10, 2017
 PROJECT #: 15-006
 SHEET #: 1 of 2

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

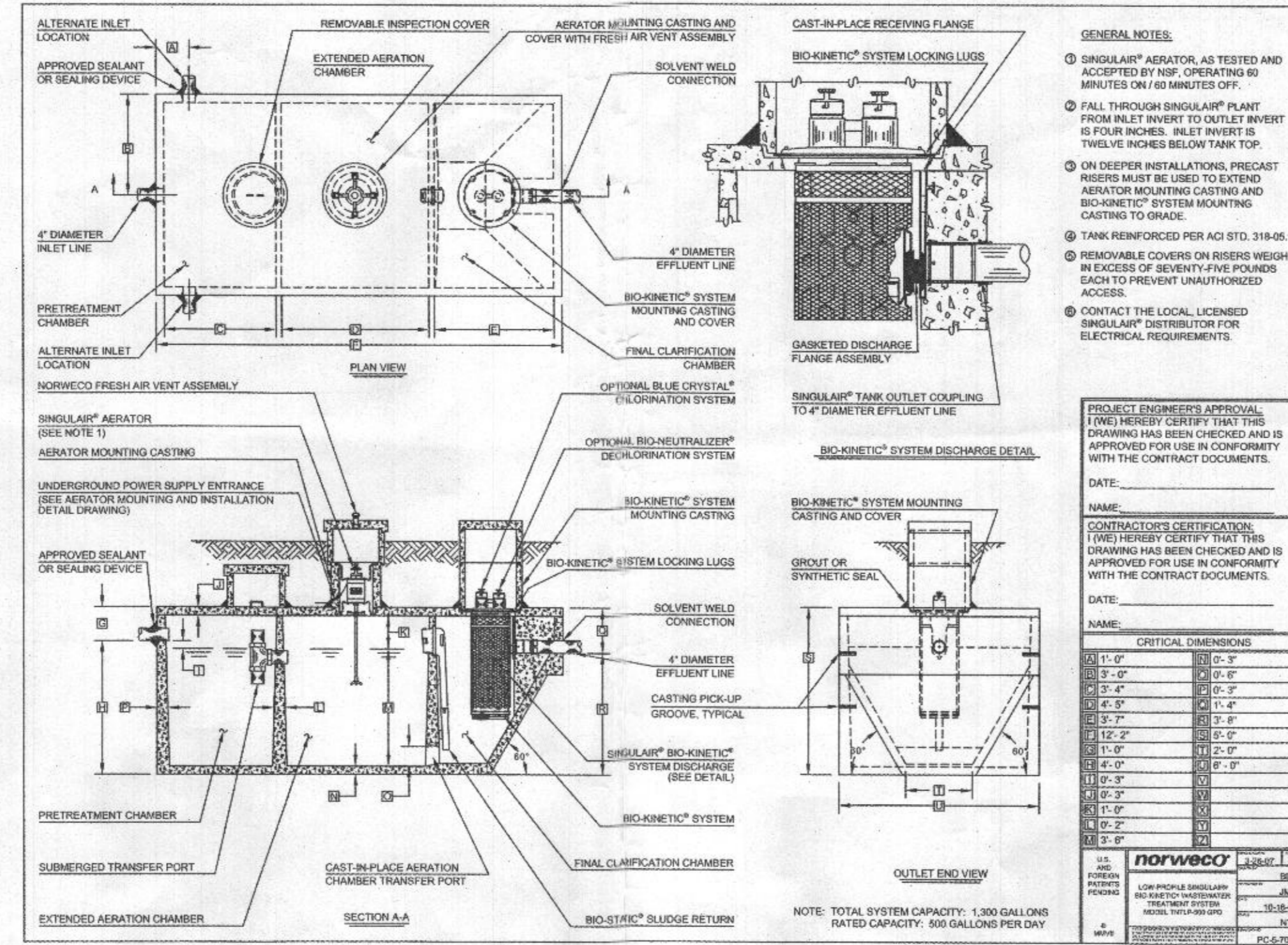
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 30025, EXPIRATION DATE: JUNE 20, 2017.

12942 Brighton Dam Rd.
 System Plan
 Approved by Health Department
 NORWECO TN-500 with
 1500-gallon Pump and
 Myers MW501P to LPD
 Fiberglass 1/17/2017
 Signature: SK RB Date: 1/17/2017

OWNER/ELOPER
 MR. RAKURICHH
 26 BIRN CT
 BURTONSVILLE/MD 20866
 (301) 8 (FAX)



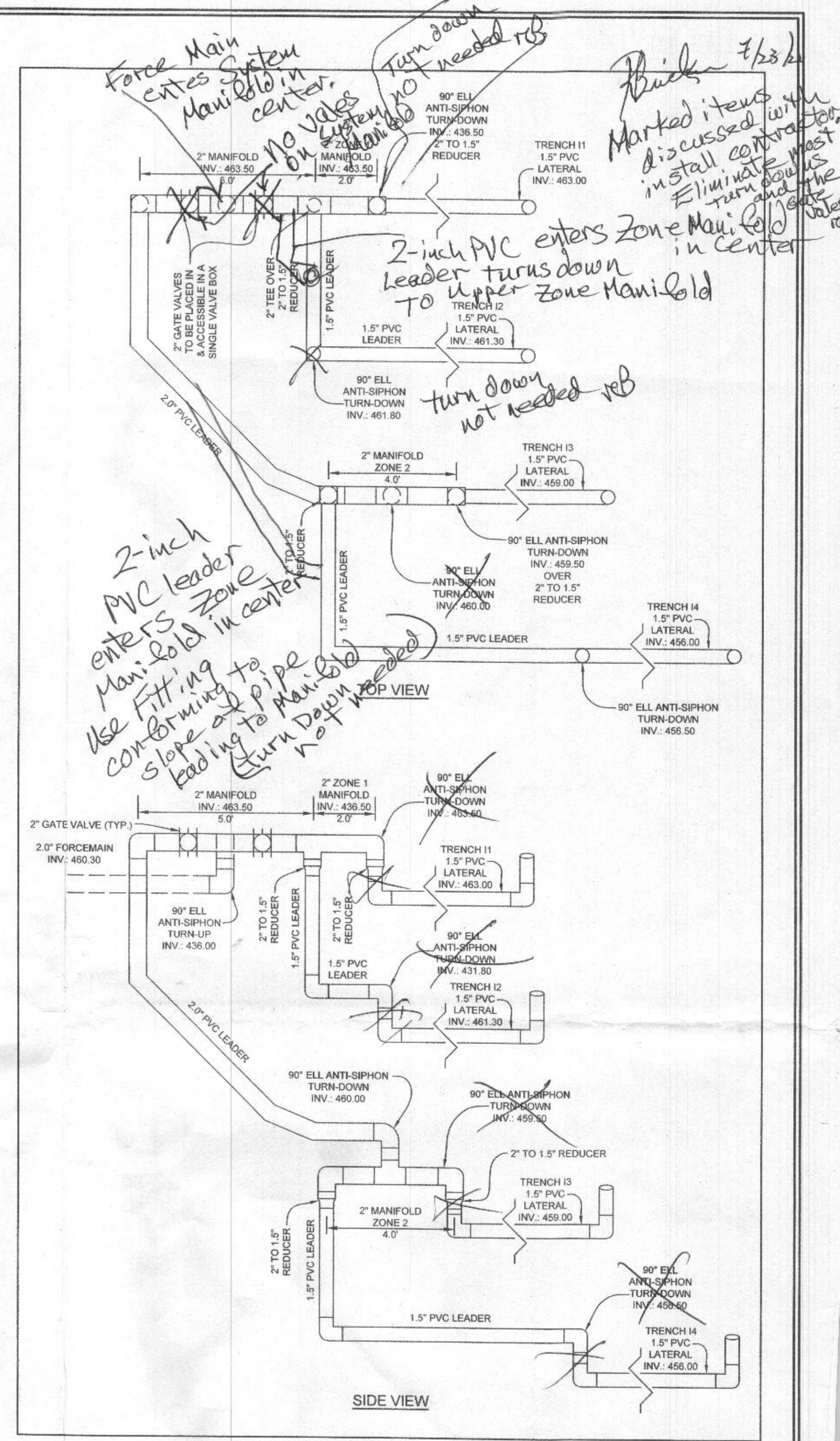
BAT SYSTEM PROFILE
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=3'



SEWAGE DISPOSAL AREA LATERAL / TRENCH SIZING SUMMARY

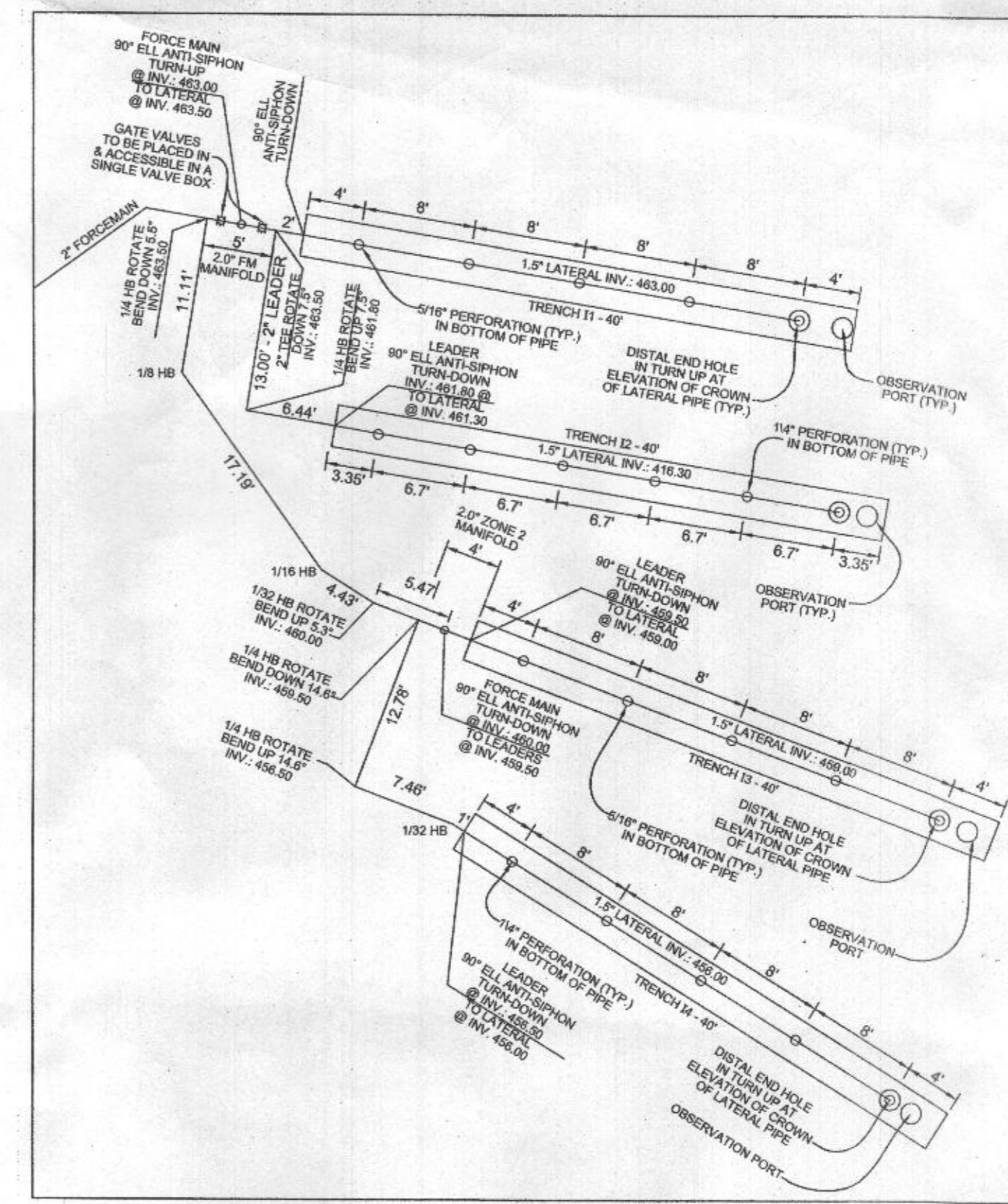
FIELD	LATERAL TRENCH NO.	EX. GROUND ELEV.	INVERT ELEV.	BOTTOM ELEV.	LATERAL LENGTH	HEAD	ORIFICE DIAMETER	ORIFICE FLOW RATE	ORIFICE SPACING	NUMBER OF ORIFICES	TRENCH FLOW RATE (GPM)	ZONE
ZONE 1	11	467.0'	463.0'	460.0'	36'	2.0'	5/16"	1.63	8.0'	5	8.15	1
	12	465.3'	461.3'	458.3'	38.67'	3.2'	1/4"	1.42	6.7'	6	8.52	1
	13	463.0'	459.0'	456.0'	38'	2.0'	5/16"	1.63	8.0'	5	8.25	2
ZONE 2	14	460.0'	456.0'	453.0'	36'	5.0'	1/4"	1.65	8.0'	5	8.25	2

The terms 'orifice', 'perforation', and 'hole' are interchangeable. RB

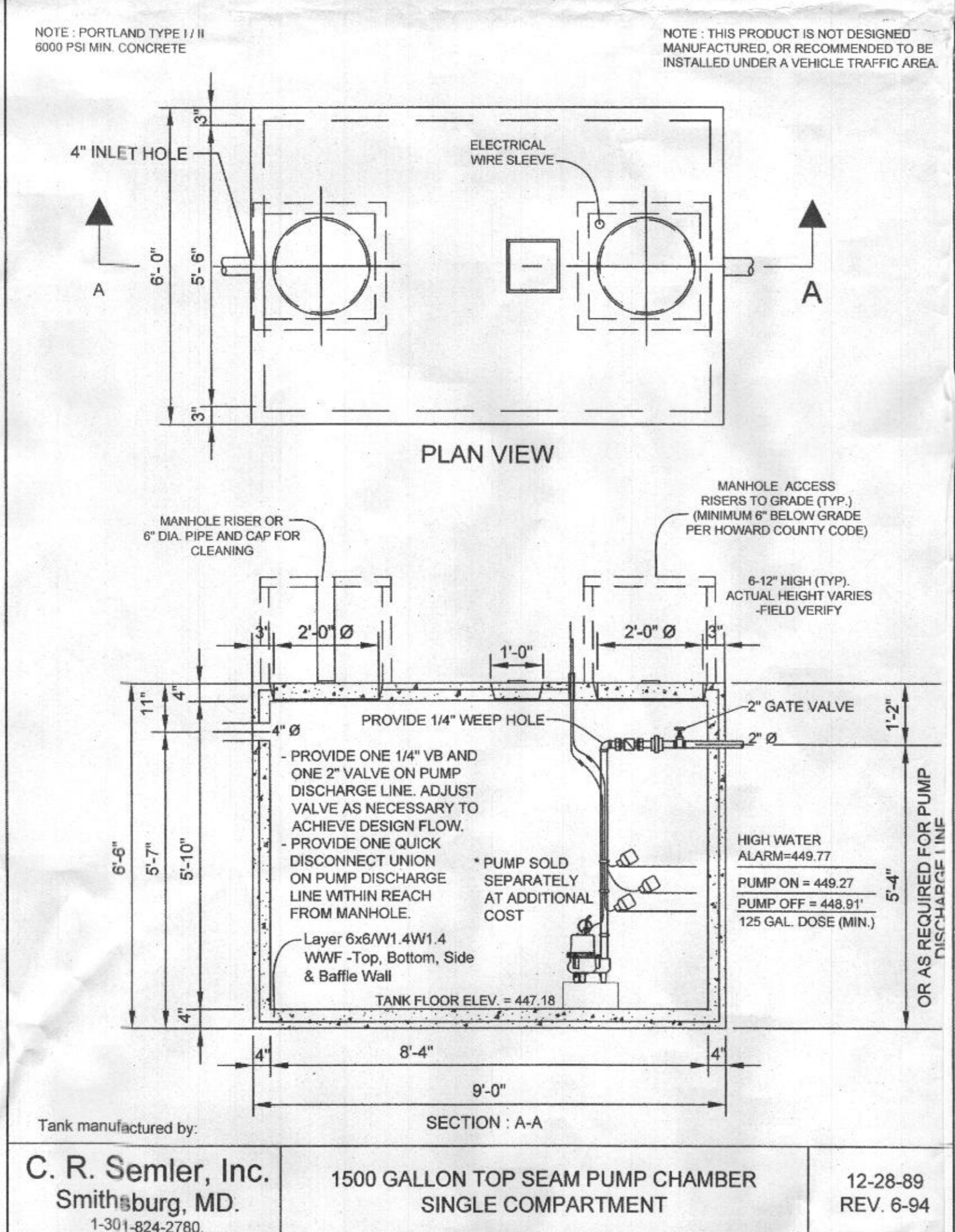


SYSTEM ANTI-SIPHON DETAILS
NOT TO SCALE

12942 Brighton Dam Rd.
Approved Septic System Plan
Howard County Health Department
NORWECO TNTL-500 with
1500-gallon Pump tank and
Myers MW50 Pump to LPD
RB
Signature 1/17/2017
Date



LOW PRESSURE DOSING SYSTEM DETAIL
NOT TO SCALE



Tank manufactured by:
C. R. Semler, Inc.
Smithsburg, MD.
1-301-824-2780

1500 GALLON TOP SEAM PUMP CHAMBER
SINGLE COMPARTMENT

12-28-89
REV. 6-94

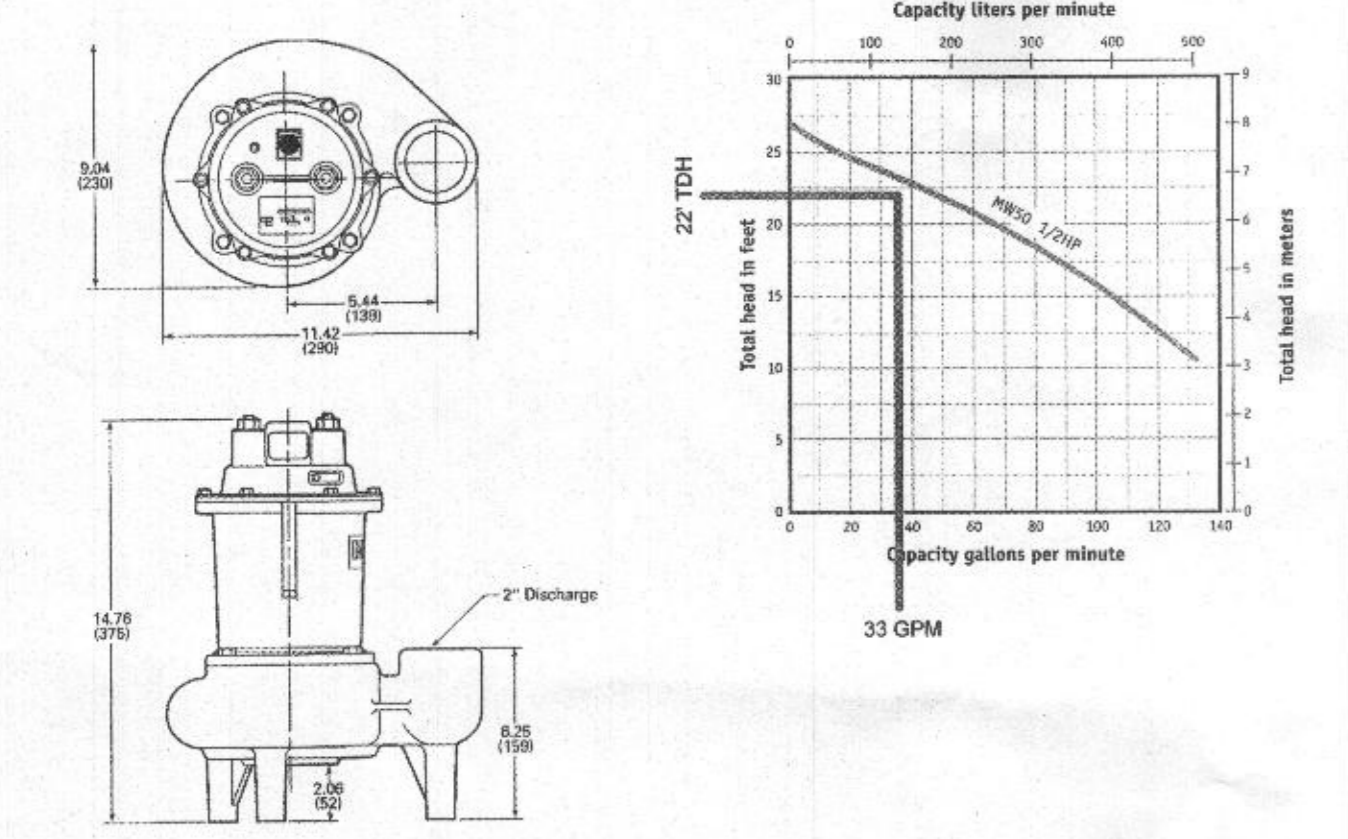
RESIDENTIAL AND LIGHT COMMERCIAL SEWAGE PUMP

MYERS® MW50

ORDERING INFORMATION

Catalog Number	HP	Volts	Phase/Cycles	Amps	Discharge Size	Switch Type	Cord Length	Approx. Wt. Lbs.
MW50-11	1/2	115	1/60	9.0	2"	Manual	20'	42
MW5011P	1/2	115	1/60	9.0	2"	Tethered Automatic*	20'	43
MW50-21	1/2	230	1/60	4.5	2"	Manual	20'	42
MW5021P	1/2	230	1/60	4.5	2"	Tethered Automatic*	20'	43

DIMENSIONS **PUMP PERFORMANCE**



SITE PLAN FOR BAT INSTALLATION
KURICHH PROPERTY
PARCEL 269

TAX MAP 34 GRID 10
5TH ELECTION DISTRICT

PARCEL 269
HOWARD COUNTY, MARYLAND

SILL ENGINEERING GROUP, LLC
11130 Dovedale Court, Suite 200
Marriottsville, Maryland 21104
Phone: 410.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: KZ/AEA
CHECKED BY: PS
SCALE: AS SHOWN
DATE: JANUARY 10, 2017
PROJECT #: 15-006
SHEET #: 2 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. 33205, EXPIRATION DATE: JUNE 20, 2017

OWNER/DEVELOPER
MR. RAJEEV KURICHH
26 BLACKBURN CT
BURTONSVILLE, MARYLAND 20866
(301) 524-4146
(301) 474-6358 (FAX)