

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

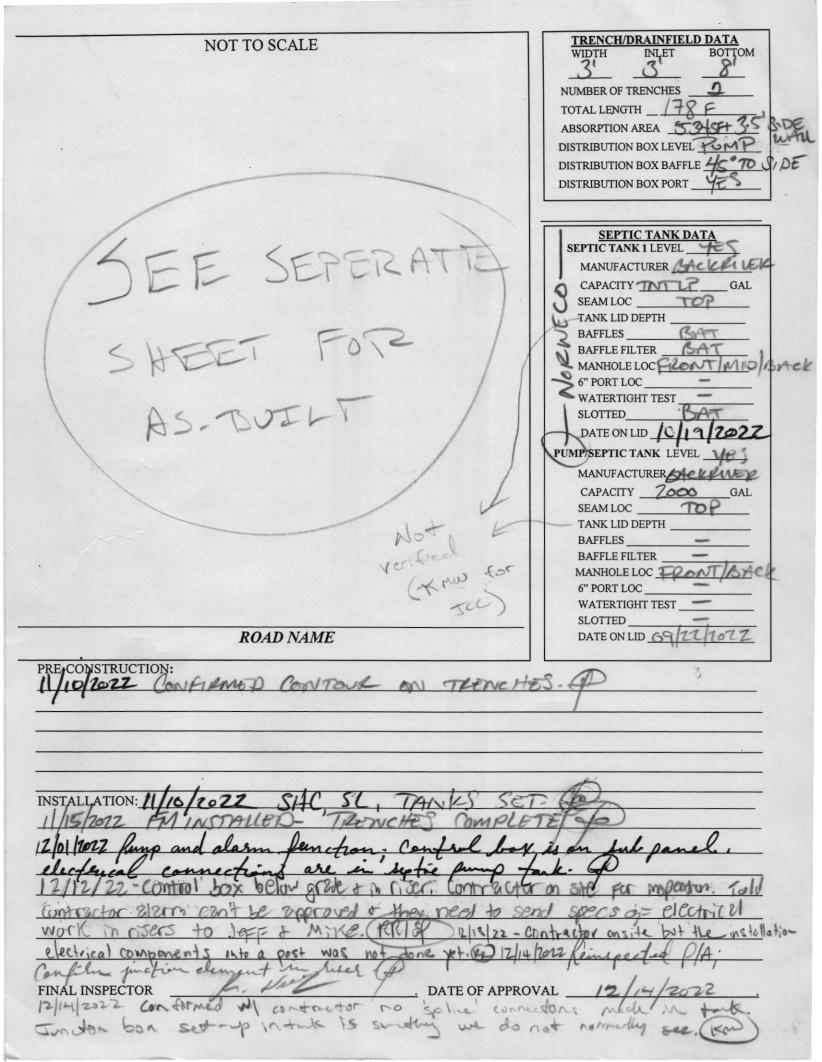
Facebook: www.facebook.com/hocohealth

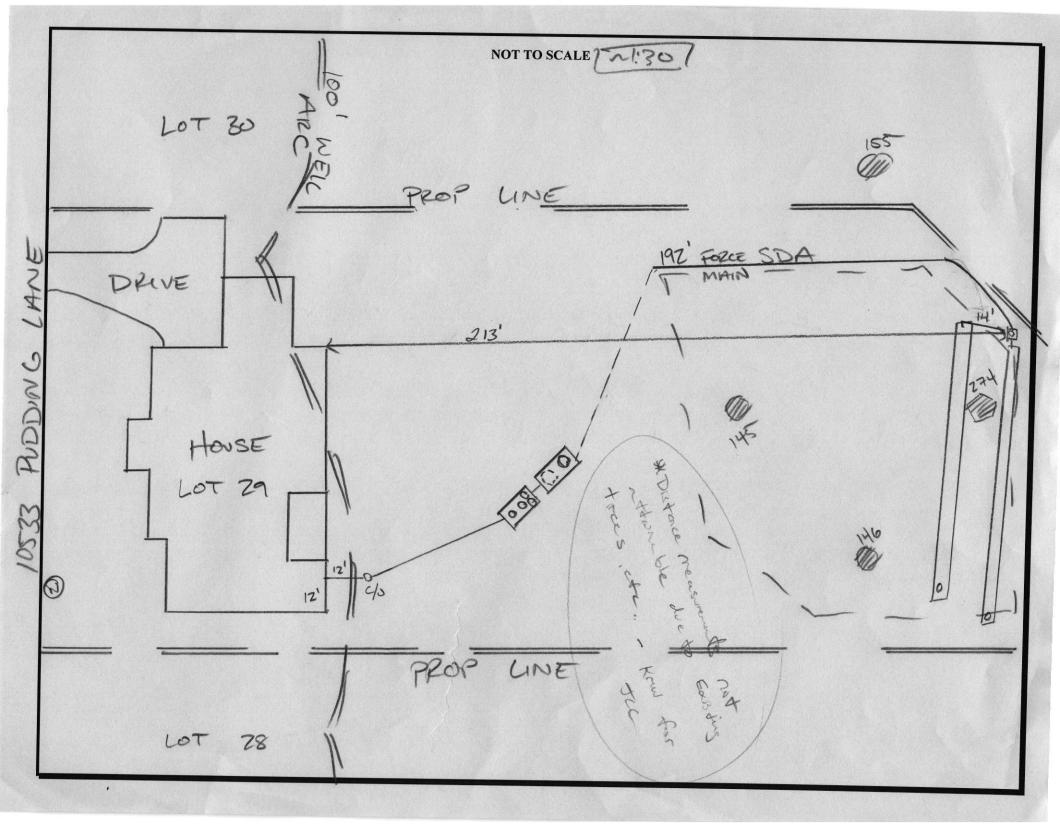
RECEIPT I		aura J. Rossman, M.D., Healt ITE SEWAGE DISPOSA	h Officer AL SYSTEM	P 542466		
APPROVAL I	DATE: 12/14/2012 KMPE	RMIT: CONST	<u> </u>	A		
PROPERTY A	DDRESS: 1053 Pudding I	Lane				
SUBDIVISION	: Kings Forest		LOT: 29 TAX	ID:		
CONTRACTO	R: Fooles Sentic	Aleen INC.	EMAIL: Kima	orlesing and		
CONTRACTOR	ADDRESS: 50 Object	JRD Spesville, M	D 21484 PH	IONE: 410-495-50-70		
CONTRACT	OR CERTIFIED FOR BAT INSTALL	ATION: MDE	MANUFACTURER:	Normes		
PROPERTY OWNER: Toll Brothers EMAIL: Sriley1@tollbrothers.com						
OWNER ADDRESS: 6731 Columbia Gateway Drive, Suite 120 PHONE: (410) 872-9105						
BAT UNIT MO	ODEL: Norweco	PUMP SIZE: M:EP50	PUMP TANK CAPACIT	TY: 2000 Gallon		
OPERATION &	MAINTENANCE AGREEMENT	DATE SIGNED: 1 2022	DATE RECORDE	D: 1/2022		
DISTRIBUTIO	N SYSTEM: GRAVITY	☐ PRESSURE DOSED	BEDROOMS: 6	APPLICATION RATE: 1.2		
	LINEAR FEET REQUIRED:	177.50	INLET D	EPTH: 3 ′		
TRENCHES:	TRENCH WIDTH:	3'	MAXIMUM BOTTOM D	EPTH: 8'		
	MINIMUM SPACE BETWEEN TRENCHES:	10' FFFF	CTIVE AREA REGINNING D	EPTH: 4'.5"		
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED					
NOTES:	*****Electrical Peri	mit Needed*****				
ISSUED BY:	Dana Bernard	ISSUE DATE:	11-3-12 EXPIRAT	ION DATE: 16-21-23		
NOTE: CON	TRACTOR MUST SCHEDULE A PI	RE-CONSTRUCTION INSPECTION	PRIOR TO BEGINNING AN	NY 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 2200 4904 E 2200 4697						
NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES						
NOTE: MDE	DURING BAT INSTALLATION. OTE: 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					

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.







BACK RIVER PRE-CAST, LLC PO BOX 329 GLYNDON, MD 21071 PH# 410-833-3394

NORWECO CERTIFICATION

PROPERTY OWNER: TOLL MID-ATLANTIC	INSTALLATION COMPANY: FOGLES SEPTIC			
ADDRESS: 10533 PUDDING LANE	CERTIFIED INSTALLER: JAMIE DEAVERS			
CITY, ZIPCODE & COUNTY: ELLICOTT CITY, 21042, HOWARD	PERMIT#			
SIZE OF SYSTEM INSTALLED:	DATE INSTALLED: 11-10-22			
750 GPD CONCRETE	START-UP DATE: 12-10-22			
NUMBER OF BEDROOMS:	DATE OF FINAL INSPECTION:			
TYPE OF INSTALLATION: NEW	DATE OF ELECTRICAL INSPECTION:			
ELECTRICAL WIRING PER ELECTRICAL INSTRUCTIONS: YES	TANK LEVEL: YES			
HT. OF CONTROL PANEL ABOVE FINAL GRADE: 24"	BURIAL DEPTH OF TANK: 22"			
SYSTEM WIRED ON A 15-AMP DEDICATED CIRCUIT WITH STD. BREAKER: YES	RISERS 4" - 6" ABOVE GRADE: YES			
LENGTH(S) OF UF WIRE PAST LAST AERATION RISER(S): 30"	VENTED LID(S) ON AERATION CHAMBER(S): YES			
FEMALE PLUG(S) WIRED TO UF WIRE: YES	ANY GROUND SETTLING AROUND TANK:			
CONDUIT(S) ENTERING AERATION RISER MADE WITH A WATERTIGHT CONNECTION: YES	NO			
ISTHE INSIDE OF THE CONDUIT ENTERING THE CONTROL PANEL(S) AND AERATION RISER(S) SEALED WITH DUCT SEAL: YES				

ON 2ND PAGE MAKE A ROUGH SKETCH OF THE HOUSE, WHERE THE SYSTEM IS LOCATED, WHERE THE CONTROL PANEL IS LOCATED, WHERE THE FRONT OF THE IS AND DIRECTIONS TO THE PROPERTY.

DIRECTIONS CAN START A FEW STREETS AWAY

EXAMPLE: RT. X LEFT ONTO XX STREET RIGHT ONTO PRIVATE DRIVEWAY 5TH HOUSE OF THE LEFT.

I certify that the Norweco Singulair TNT Wastewater Treatment System was installed according to the manufacture's specifications.

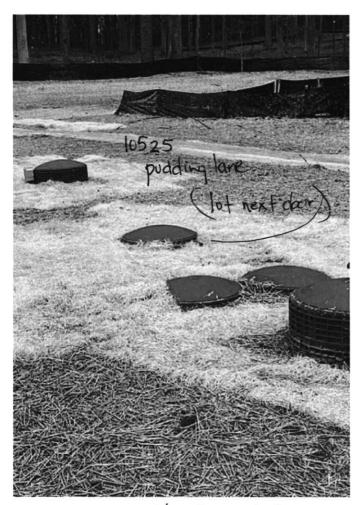
Matthew Geckle

December 10,2022

Signature of BRP Representative

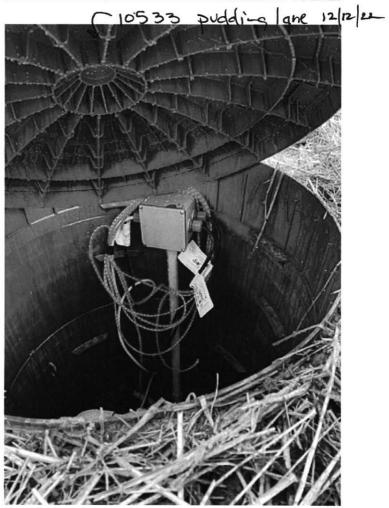
Vice-President

Date









Bernard, Dana

From:

Bernard, Dana

Sent:

Friday, October 21, 2022 10:43 AM

To:

jnmengineeringllc@gmail.com

Subject:

10533 Pudding Lane

Good Morning Jim,

We need an O and M agreement for 10533 Pudding Lane before we can issue a permit.

Thanks

Dana Bernard, LEHS
Environmental Health Specialist II
Howard County Health Department
Well and Septic Program
8930 Stanford Blvd. Columbia, MD 21045
410-313-2775 office
www.hchealth.org

Social Media: @hocohealth



Clerk of the Circuit Cou

Howard County

9250 Judicial Way, Ellicott City, MD 21043 410-313-2111

LR - Agreement Recording Fee 20.00

Name: patel Ref: 10

LR - Agreement Surcharge 40.00

60.00 SubTotal: 60.00 Total:

60.00 CRD-Credit Sredit Card Confirmation: 043744



Bureau of Environmental Health 8930 Stanford Blvd | Columbia, MD 21045 410.313.2640 - Voice/Relay 410.313.2648 - Fax 1.866.313.6300 - Toll Free

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 day of october, among by a 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 10533 Poly Love , in the 10530 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 # 23 , Block # 23 , Parcel # 148 , Deed Reference # 25764-68 and Tax Account # 603434 ("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 November 24, 2016. The pre-treatment device being installed is Notice TNT/P-7506PD
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 this agreement on the date indicated above.

Howard County Health Department		
10/25/22		
Owner #1 Signature Date	Owner#2 Signature	Date
BijAL PATEL		
Owner #1 Print Name	Owner #2 Print Name	
Buyer #1 Signature Date	Buyer #2 Signature	Date
Buyer #1 Print Name	Buyer #2 Print Name	

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/23.

LEGEND:

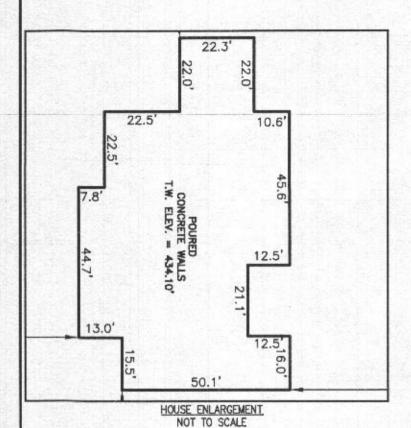
BUILDING RESTRICTION LINE

WELL LOCATION TOP OF WALL

SE

SEPTIC DISPOSAL AREA

WELL BOX AREA

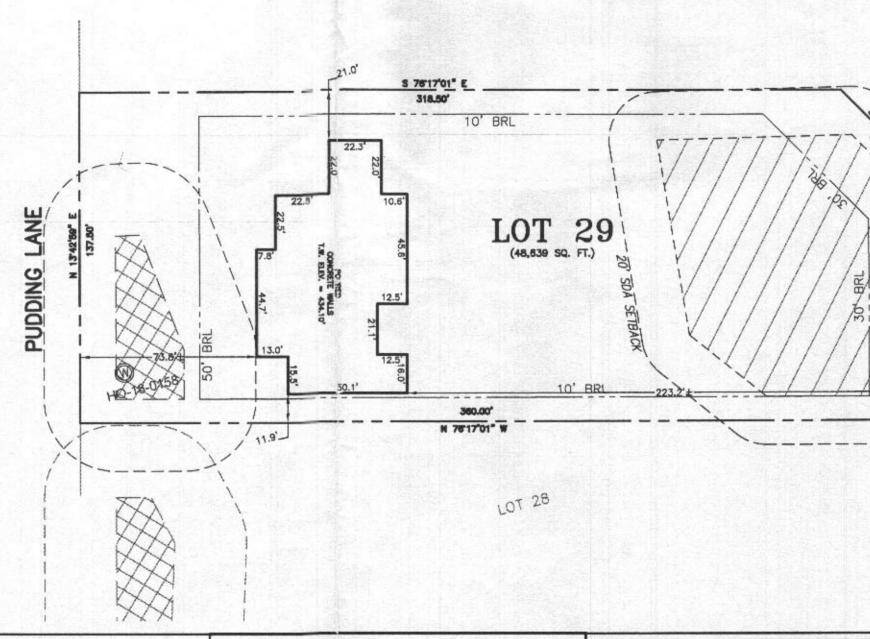


ADDRESS: 10533 PUDDING LANE ELLICOTT CITY, MD 21042

WELL NUMBER: HO-18-0158

PERMIT NO. 822000592

BUILDING SETBACKS (B.R.L's) SHOWN HEREON PER SITE DEVELOPEMENT PLAN SETBACK DISTANCES SHOWN HEREON AS " \pm " HAVE AN ACCURACY OF \pm 0.1' FOOT.





SURVEYOR'S CERTIFICATE

THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHT-OF-WAYS, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED HEREON. BEARINGS AND DISTANCES OF THE PROPERTY BOUNDARY LINES SHOWN HEREON ARE PER AVAILABLE RECORDS AND HAVE NOT BEEN FIELD VERIFIED.

THIS IS NOT A "LOCATION DRAWING" AND IS NOT TO BE USED FOR SETTLEMENT PURPOSES.

MAL Jav 3 -21328 8/20/22 SIGNATURE: MICHAEL JOE BOYCE MD. LIC NO. DATE WALLCHECK LOT 29 KINGS FOREST

PLAT NO. 25767
2nd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

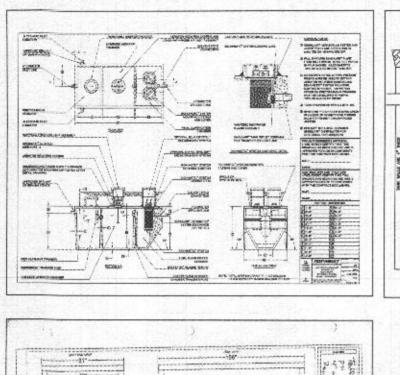
ESE CONSULTANTS

engineering · Planning · Surveying · Environmental

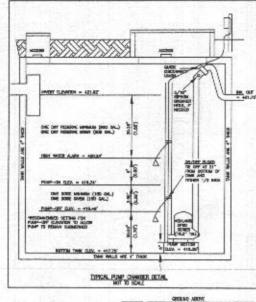
ESE Consultants, Inc.

6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046 T: 410-872-9105

DATE: 08/20/2022 CHK'D: M.J.B. SCALE: 1"= 40" JOB NO: 3502 FILE: 3502 WC Lot 29 DRAWN: V.X.P.

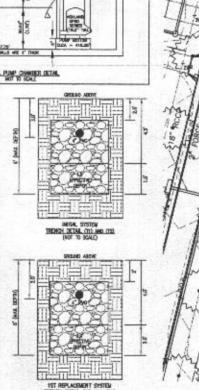


PUMP TANK DETAIL



SOTTOM WAY, DEPTH (N) 9950H 1 (TT): 58.75 LF. ORDING: ABOVE = 430.40° 50°, 76 = 500.47° BOTTON: TROUGH = 430.40°

1 - 43.30 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00





BUILDE OFFICIAL

SOUR TOTAL EXCOUNT MATTER

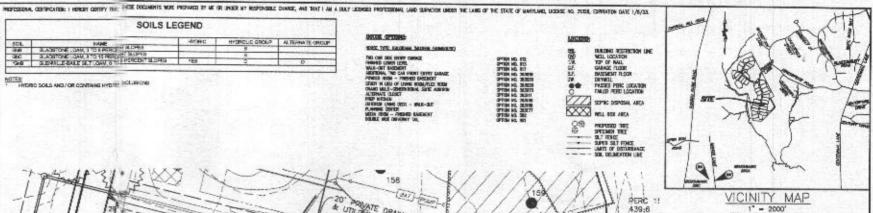
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188

NOTES:
HYDRO SOLS AND/OR CONTAINS HYDRO ROLLINGS

HYDRIC HYDROLIC GROUP ALTERNATE GROUP

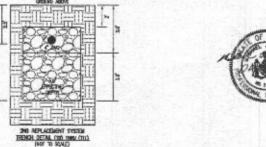


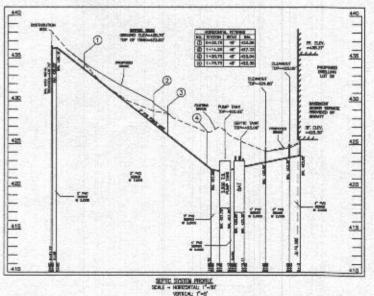
VICINITY MAP 1" = 2000' TAX MAP 28, GRID 02

N: 574,525,138, E: 1,343,533,620, E: 423,532 N: 374,323,134, □ 1,334,112,295, □□ 468,785'
N: 372,323,559, □ 1,334,112,295, □□ 468,785'

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- DISTRIBUTED STATE STATUS, AND STATE STATUS AREA WHEN YOU'D' THE PROPERTY AND THOSE WELLS WITHOUGH SHOWN CONTROL OF CONTROL OF PROPURED STATUS SYSTEMS OR SEAMED SPACES, AREAS HAVE REEN SHOWN.
- ANT CHANGES TO A PROMIE SERVICE AREA SHALL REQUIRE A REVISED PERCEATION CORRESPONDED PLAN.
- ANY CHANGES TO THE LOCATIONS OR COPYNS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEEN AND THE HOWARD CODATY HEALTH COPYNTHISM PRIOR TO INSTALLATION, A REVISED SITE PLAN MAY BE RECURRED.
- THE MAXIMAN CAPTRICENCE THEN THE TAKE IS THREE (II) THEY, DREATER EASTH COVER MALL PEDITOR & HEAVY LIVE READING THREE.
- THE LUT SHOWN HEREON CONFLET WITH THE WIRMAN OWNERS IP, WILTH, AND LET WIEA AS RELIABED BY THE WANTLAND STATE DEPARTMENT OF THE
- THE EXCEPTION TOPOGRAPHY SHATIN HERETON IS TROM HOWARD COUNTY SE, 2' CONTOUR MICHAEL, AND FIELD VERFEID BY SENDALMIK CHRISTOPHIC, INC., IN FEDERALLY 2014.





SERECE DISPOSAL SYSTEM BATA (6 BORM)

- PROPOSED SMEET AT FOLKBANDIN SALL; 40142' 1. DI, CRIME DWG: DWG: 422.70' PROPOSED DANCE OVER DWG: 425.70' SMEET SE: 421.30' MWRT GUT; 431.90'
- 2. DISTRIBUTION BOX
 DISTRIC SPACE OVER TANK: 438.10'
 PROPOSED SPACE OVER TANK: 438.10'
 RHOY R: 438.10' MYST QUI: 438.20'
- 1 MINU, TREMON (CERNI (S. 80% » 166 GPC/EDMI = 500 DPC) 500 GPC + 12 MP, 1415 = 710 S 100 SF 900 TREMON WITH ST 20MM, INCIDIS PRO-15 MM, SPACING SERVENT WITHOUT EXCES 700 SF \$ 5" SWITH 200 SF 6.07" (SOCIEMAL RESIDENCE) = 177.56 LF MM, UNIX 2 MENTE LIMIT WITHOUT = 177.30 LF
- 4. IST PERMACEIENT TEREOR (CERNO 1) 1894 x 200 cm/dona = 100 cm/d
 200 cm + 0.0 cm/d = 1,025 5°
 102 of the tereor with of 2004, tereor state
 15° km. 344000 cereor tereor cereor
 15° km. 344000 cereor
 15° km. 34400 cereor
 15°
- 5. 360 SEPLACHENT TREMEN CENTR IS BOTH x 150 GPC/EDTM = 560 GPC)

 800 GPG + 0.3 4PF, NOTE = 1.025 SP

 600 GPG + 0.3 4PF, NOTE = 1.025 SP

 600 GPG + 0.5 4PF, NOTE = 1.025 SP

 600 GPG + 0.5 4PF, NOTE = 1.025 SP

 1.025 SP 37 MSTR = 3.75 UF x 0.36 (SEGNAL PRIORITIO) = 167.20 UF MBL

 1.025 SP 37 MSTR = 3.75 UF x 0.36 (SEGNAL PRIORITIO) = 167.20 UF MBL

 1.025 SP 10 MSTR = 3.75 UF x 0.36 (SEGNAL PRIORITIO) = 167.20 UF MBL

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 1.025 SP 37 MSTR = 3.05 UF x 0.36

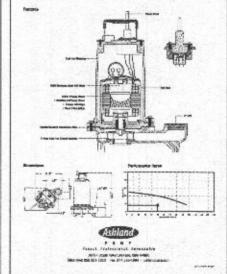
SITE PLAN FOR BAT INSTALLATION LOT 29 KINGS FOREST

UBER 11372, FOLIO 431 PLAT NO. 19791 ELECTION DISTRICT No. 2 HOWARD COUNTY, MARYLAND ADDRESS: 10533 PUDDING LANE SLLICOTT CITY, MARYLAND 21042

· PLANNING · SURVEYERS · SNYS **ESE Consultents, Inc.** y Orive - Suite 120 - Colu T: 410-872-9105

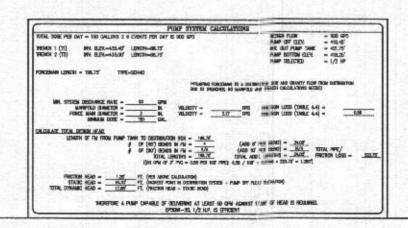
GATE: GE/20/200 FILE: BAT LOT 29 OWER MAN DRIVEN COX

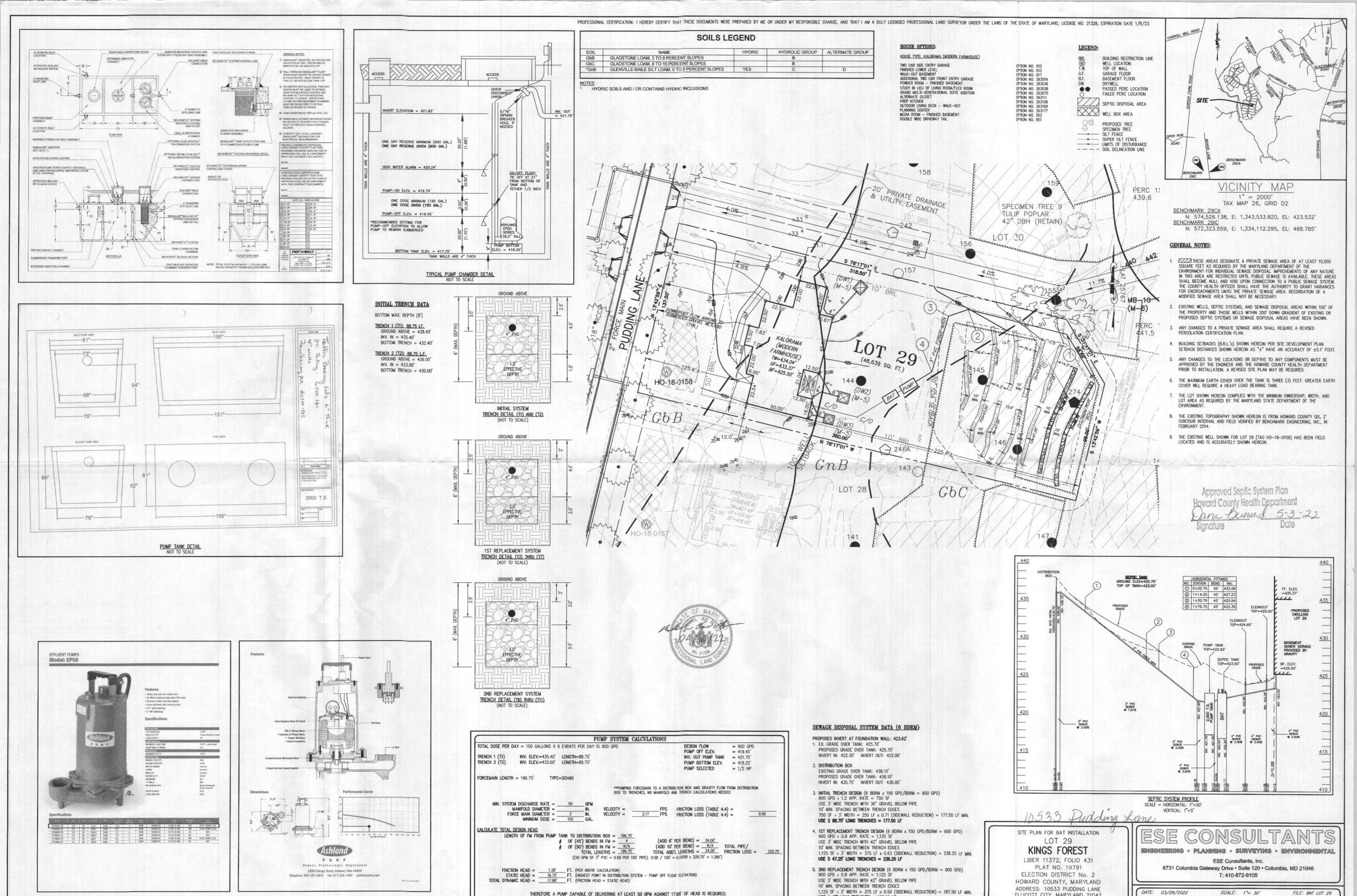




- 100 X E-00.000

8000 T.S





THEREFORE A PUMP CAPABLE OF DELIVERING AT LEAST 50 GPM AGAINST 17.98' OF HEAD IS REQUIRED.

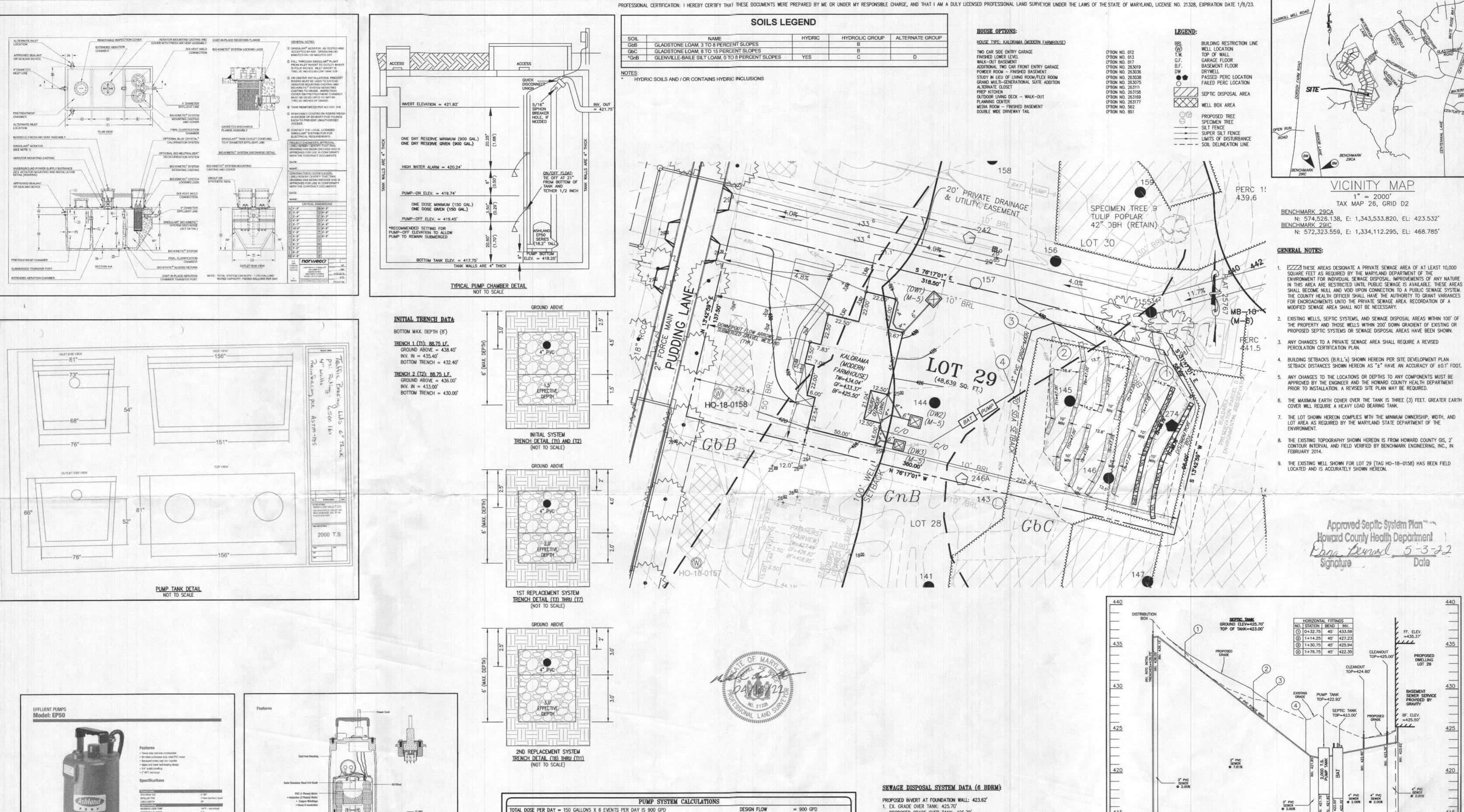
EP50M1-20, 1/2 H.P. IS EFFICIENT

SCALE: 1"= 30' FILE: BAT LOT 29 DRAWN: R.C.K. JOB NO: 3502

ELLICOTT CITY, MARYLAND 21042

CHK'D: M.J.B

USE 4 47' LONG TRENCHES = 188.00 LF



Honest, Professional, Dependable 1899 Cottage Street, Ashland, Ohio 44805 Telephone: 855 281-6830 + Fax: 877 326-1994 + ashlandpump.com

PUNP

PUMP SYSTEM CALCULATIONS TOTAL DOSE PER DAY = 150 GALLONS X 6 EVENTS PER DAY IS 900 GPD PUMP OFF ELEV. = 419.45 INV. ELEV.=435.40' LENGTH=88.75' INV. OUT PUMP TANK = 421.75TRENCH 2 (T2) INV. ELEV.=433.00' LENGTH=88.75' PUMP BOTTOM ELEV. = 418.25' PUMP SELECTED = 1/2 HP FORCEMAIN LENGTH = 196.75' TYPE=SCH40 **PUMPING FORCEMAIN TO A DISTRIBUTION BOX AND GRAVITY FLOW FROM DISTRIBUTION BOX TO TRENCHES, NO MANIFOLD AND TRENCH CALCULATIONS NEEDED MIN. SYSTEM DISCHARGE RATE = _____50 MANIFOLD DIAMETER = FORCE MAIN DIAMETER = 3 IN.
MINIMUM DOSE = 150 GAL. VELOCITY = 2.17 FPS FRICTION LOSS (TABLE 4.4) = CALCULATE TOTAL DESIGN HEAD # OF (45') BENDS IN FM = 4 # OF (90') BENDS IN FM = $\frac{N/A}{196.75'}$ $((50 \text{ GPM OF } 3^{\circ} \text{ PVC} = 0.58 \text{ PER } 100' \text{ PIPE}): 0.58 / 100' = 0.0058 \times 220.75' = 1.280')$ FRICTION HEAD = 1.28' FT. (PER ABOVE CALCULATION)

STATIC HEAD = 16.70' FT. (HIGHEST POINT IN DISTRIBUTION SYSTEM - PUMP OFF FLOAT ELEVATION)

TOTAL DYNAMIC HEAD = 17.96' FT. (FRICTION HEAD + STATIC HEAD) THEREFORE A PUMP CAPABLE OF DELIVERING AT LEAST 50 GPM AGAINST 17.98' OF HEAD IS REQUIRED. EP50M1-20, 1/2 H.P. IS EFFICIENT

PROPOSED INVERT AT FOUNDATION WALL: 423.62' 1. EX. GRADE OVER TANK: 425.70' PROPOSED GRADE OVER TANK: 425.70' INVERT IN: 422.30' INVERT OUT: 422.00'

EXISTING GRADE OVER TANK: 438.10' PROPOSED GRADE OVER TANK: 438.10' INVERT IN: 435.75' INVERT OUT: 436.05'

3. INITIAL TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD) 900 GPD + 1.2 APP. RATE = 750 SF USE 3' WIDE TRENCH WITH 36" GRAVEL BELOW PIPE 10' MIN. SPACING BETWEEN TRENCH EDGES 750 SF ÷ 3' WIDTH = 250 LF x 0.71 (SIDEWALL REDUCTION) = 177.50 LF MIN.

USE 2 88.75' LONG TRENCHES = 177.50 LF 4. 1ST REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD) 900 GPD + 0.8 APP. RATE = 1,125 SF USE 3' WIDE TRENCH WITH 42" GRAVEL BELOW PIPE 10' MIN. SPACING BETWEEN TRENCH EDGES 1,125 SF \div 3' WIDTH = 375 LF \times 0.63 (SIDEWALL REDUCTION) = 236.25 LF MIN. USE 5 47.25' LONG TRENCHES = 236.25 LF

5. 2ND REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD) 900 GPD + 0.8 APP. RATE = 1,125 SF USE 3' WIDE TRENCH WITH 42" GRAVEL BELOW PIPE 10' MIN. SPACING BETWEEN TRENCH EDGES 1,125 SF + 3' WIDTH = 375 LF x 0.50 (SIDEWALL REDUCTION) = 187.50 LF MIN. USE 4 47' LONG TRENCHES = 188.00 LF

STATION BEND INV. 0+32.75 45 433.59 FF. ELEV. 1+14.25 45' 427.23 1111) 1+30.75 45 425.94) 1+76.75 45 422.35 TOP=425.00 TOP=424.60' SEPTIC TANK TOP-423.00' PROPOSED GRADE =425.50" 4" PVC 4" PVC SEWER SEWER 9 2.00%

SEPTIC SYSTEM PROFILE SCALE = HORIZONTAL: 1"=50"

VERTICAL: 1"=5"

10533 Pudding Lane SITE PLAN FOR BAT INSTALLATION

LIBER 11372, FOLIO 431

PLAT NO. 19791

ELECTION DISTRICT No. 2

HOWARD COUNTY, MARYLAND

ADDRESS: 10533 PUDDING LANE

ELLICOTT CITY, MARYLAND 21042

LOT 29 KINGS FOREST

engineering · Planning · Surveying · Environmental ESE Consultants, Inc.

6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046

1" = 2000'TAX MAP 26, GRID D2

T: 410-872-9105 FILE: BAT LOT 29

DATE: 03/28/2022 SCALE: 1"= 30" CHK'D: M.J.B JOB NO: 3502 DRAWN: R.C.K.