



Howard County  
Health Department

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](https://www.facebook.com/hocohealth)

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

RECEIPT DATE: 5-3-22 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 5F1530

APPROVAL DATE: 08/30/2022 **PERMIT: CONSTRUCTION**

A \_\_\_\_\_

PROPERTY ADDRESS: 10512 Pudding Lane

SUBDIVISION: Kings Forest

LOT: 18

TAX ID: \_\_\_\_\_

CONTRACTOR: Chris Enterprises LLC

EMAIL: Sedrick@chrisenterprises.com

CONTRACTOR ADDRESS: P.O. Box 51 Jarrettsville, MD 2084

PHONE: 410-557-2455

CONTRACTOR CERTIFIED FOR BAT INSTALLATION:

☒ MDE

☒ MANUFACTURER:

PROPERTY OWNER: Toll Mid-Atlantic Inc.

EMAIL: SRILEY1@TOLLBROTHERS.COM

OWNER ADDRESS: 7164 COLUMBIA GATEWAY DRIVE SUITE 230

PHONE: 410-872-9105

BAT UNIT MODEL: Norweco Model EP50 PUMP SIZE: EP50 PUMP TANK CAPACITY: 2000

OPERATION & MAINTENANCE AGREEMENT

DATE SIGNED: 7/22/2022

DATE RECORDED: 7/13/2022

DISTRIBUTION SYSTEM: ☐ GRAVITY

☐ PRESSURE DOSED

BEDROOMS: 6

APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED:	<u>236.25</u>	INLET DEPTH:	<u>3</u>
	TRENCH WIDTH:	<u>3</u>	MAXIMUM BOTTOM DEPTH:	<u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES:	<u>10</u>	EFFECTIVE AREA BEGINNING DEPTH:	<u>6</u>
	LOCATION: <b>PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.</b>			
NOTES:				

ISSUED BY: Dana Bernard

ISSUE DATE: 12/13/21

EXPIRATION DATE: 5-3-23  
12/13/22

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 22001956

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.

NOT TO SCALE

SEE ATT

ROAD NAME

**TRENCH/DRAINFIELD DATA**

WIDTH 3' INLET 3' BOTTOM 8'  
NUMBER OF TRENCHES 5  
TOTAL LENGTH 240 F  
ABSORPTION AREA 720 SF + 2' SIDE WALL  
DISTRIBUTION BOX LEVEL PUMP  
DISTRIBUTION BOX BAFFLE \_\_\_\_\_  
DISTRIBUTION BOX PORT YES

**SEPTIC TANK DATA**

SEPTIC TANK 1 LEVEL YES  
MANUFACTURER BACKRIVER  
CAPACITY TNT GAL  
SEAM LOC TOP  
TANK LID DEPTH 4.9'  
BAFFLES BAT  
BAFFLE FILTER BAT  
MANHOLE LOC FRONT/MID/BACK  
6" PORT LOC —  
WATERTIGHT TEST —  
SLOTTED BAT  
DATE ON LID 03/15/2022  
PUMP/SEPTIC TANK LEVEL YES  
MANUFACTURER BACKRIVER  
CAPACITY 2000 GAL  
SEAM LOC TOP  
TANK LID DEPTH 5.5'  
BAFFLES —  
BAFFLE FILTER —  
MANHOLE LOC FRONT/BACK  
6" PORT LOC —  
WATERTIGHT TEST —  
SLOTTED NO  
DATE ON LID 03/12/2022

**PRE-CONSTRUCTION:**

07/26/2022 LAID OUT XS 4/8' TRS ON CONTOUR. SPACED T<sub>3</sub>-T<sub>5</sub> to  
FIT CONTOUR ±6".

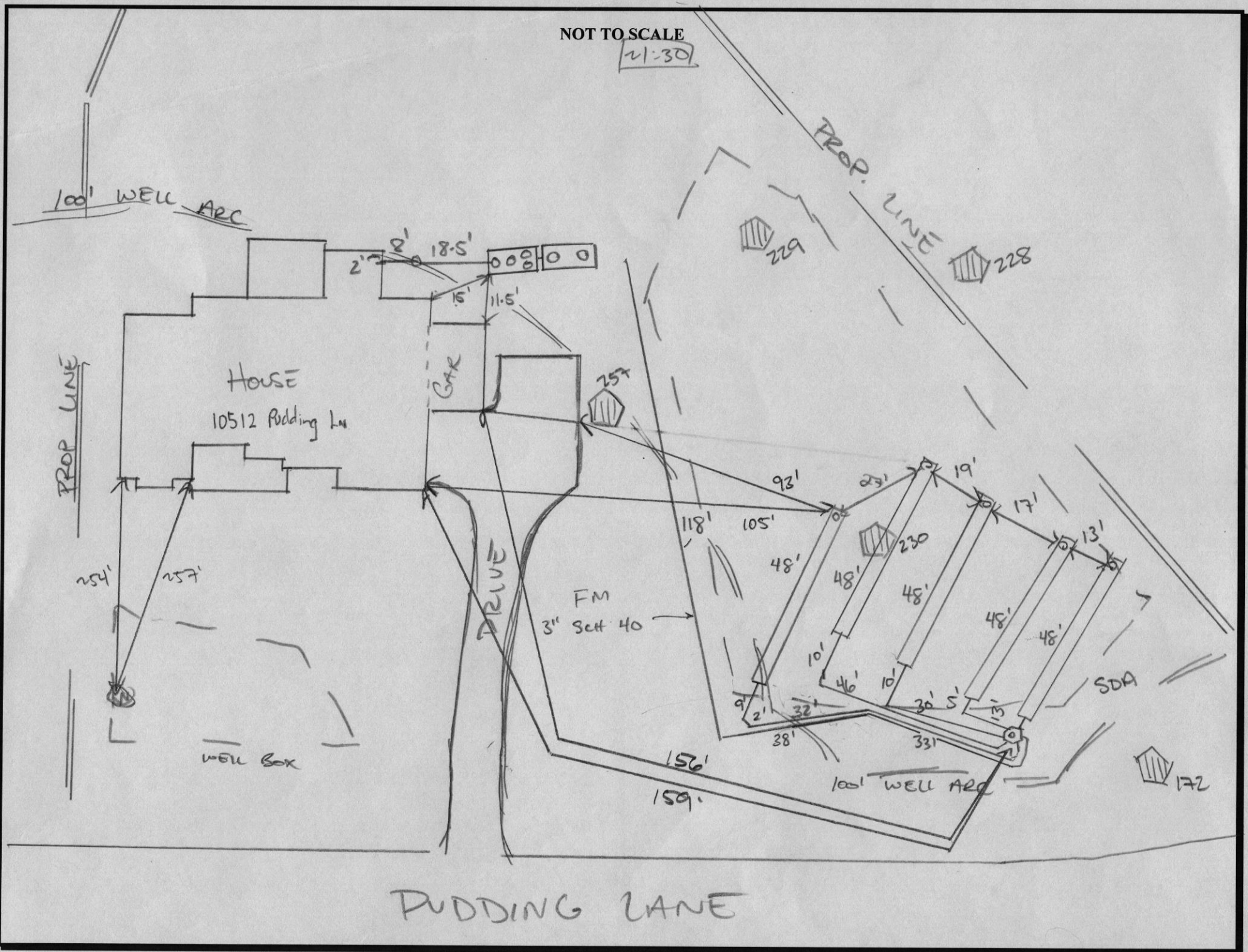
INSTALLATION: 07/26/2022 UPPER 3 TRENCHES INSTALLED. OK TO COVER  
07/27/2022 COMPLETED T<sub>4</sub>. SHC INSTALLED, SL, TANK SET - PIT HAS  
MASSIVE BOULDER NEEDING JACKHAMMER LAST 3' PUMP TANK PITE  
07/28/2022 T<sub>5</sub> INSTALLED 7/29/22 Did not have time for inspection  
08/30/2022 P/A WORKS, ELEC IS ON SUB PANEL IN NICKNICO BOX

FINAL INSPECTOR

DATE OF APPROVAL 08/30/2022

NOT TO SCALE

21:30



NOT TO SCALE

21-30

100' WELL ARC

PROP. LINE

HOUSE

GAR

DRIVE

FM  
3" Sect 40

WELL BOX

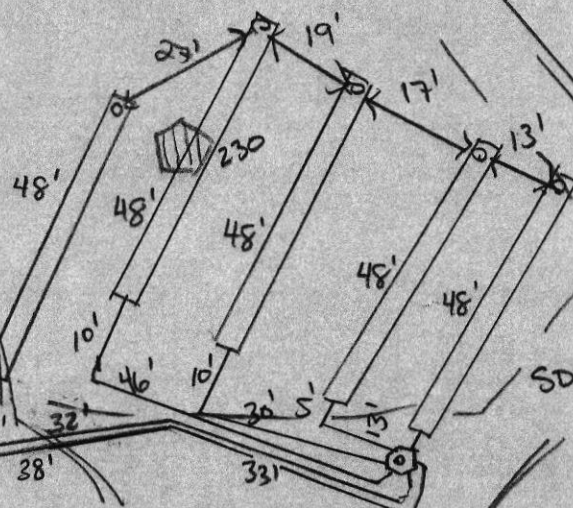
PROP. LINE

229

228

25x

118'



100' WELL ARC

172

PUDDING LANE

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

LR - Agreement Recording Fee  
1x 20.00 20.00

Name: mathur  
Ref: 20

LR - Agreement Surcharge  
1x 40.00 40.00

LR - Agreement Recording Fee  
1x 20.00 20.00

Name: ayele  
Ref: 21

LR - Agreement Surcharge  
1x 40.00 40.00

LR - Agreement Recording Fee  
1x 20.00 20.00

Name: jzang  
Ref: 22

LR - Agreement Surcharge  
1x 40.00 40.00

LR - Agreement Recording Fee  
1x 20.00 20.00

Name: winkles  
Ref: 23

LR - Agreement Surcharge  
1x 40.00 40.00

SubTotal: 240.00  
Total: 240.00

CRD-Credit 240.00  
Credit Card Confirmation : 096178

07/13/2022 12:46 CC13-SB  
#16411057/496/4  
Thank you for visiting us today~

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 5<sup>th</sup> day of July, among GIRDHAR G. MATHUR  
and ANITA MATHUR, 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  
Lot 18 10512 Pudding Lane, in the 3-0 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 # 25674-68 and Tax Account # 603428 ("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

17001160 TINTIP-7506-PD

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

Girdhar Mathur 6/29/22  
Owner #1 Signature Date

Anita Mathur 6/29/22  
Owner#2 Signature Date

GIRDHAR G. MATHUR  
Owner #1 Print Name

ANITA MATHUR  
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  
PH# 410-833-3394

### NORWECO CERTIFICATION

PROPERTY OWNER: TOLL MID-ATLANTIC	INSTALLATION COMPANY: CHAVIS SEPTIC
ADDRESS: 10512 PUDDING LANE	CERTIFIED INSTALLER: JOSH CHAVIS
CITY, ZIPCODE & COUNTY: ELLICOTT CITY, 21042, HOWARD	PERMIT#
SIZE OF SYSTEM INSTALLED:	DATE INSTALLED: 07-27-22
750 GPD CONCRETE	START-UP DATE: 08-30-22
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: 34"	BURIAL DEPTH OF TANK: 36"
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 2<sup>ND</sup> 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 5<sup>TH</sup> HOUSE OF THE LEFT.

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

Matthew Geckle

August 30, 2022

Signature of BRP Representative

Vice-President

Date

LEGEND:  
BRL BUILDING RESTRICTION LINE  
T.W. TOP OF WALL  
ELEV. ELEVATION



HOUSE ENLARGEMENT  
NOT TO SCALE

WELL NUMBER: HO-18-0168

ADDRESS: 10512 PUDDING LANE  
ELLICOTT CITY, MD 21042

PERMIT NO.: B21004498

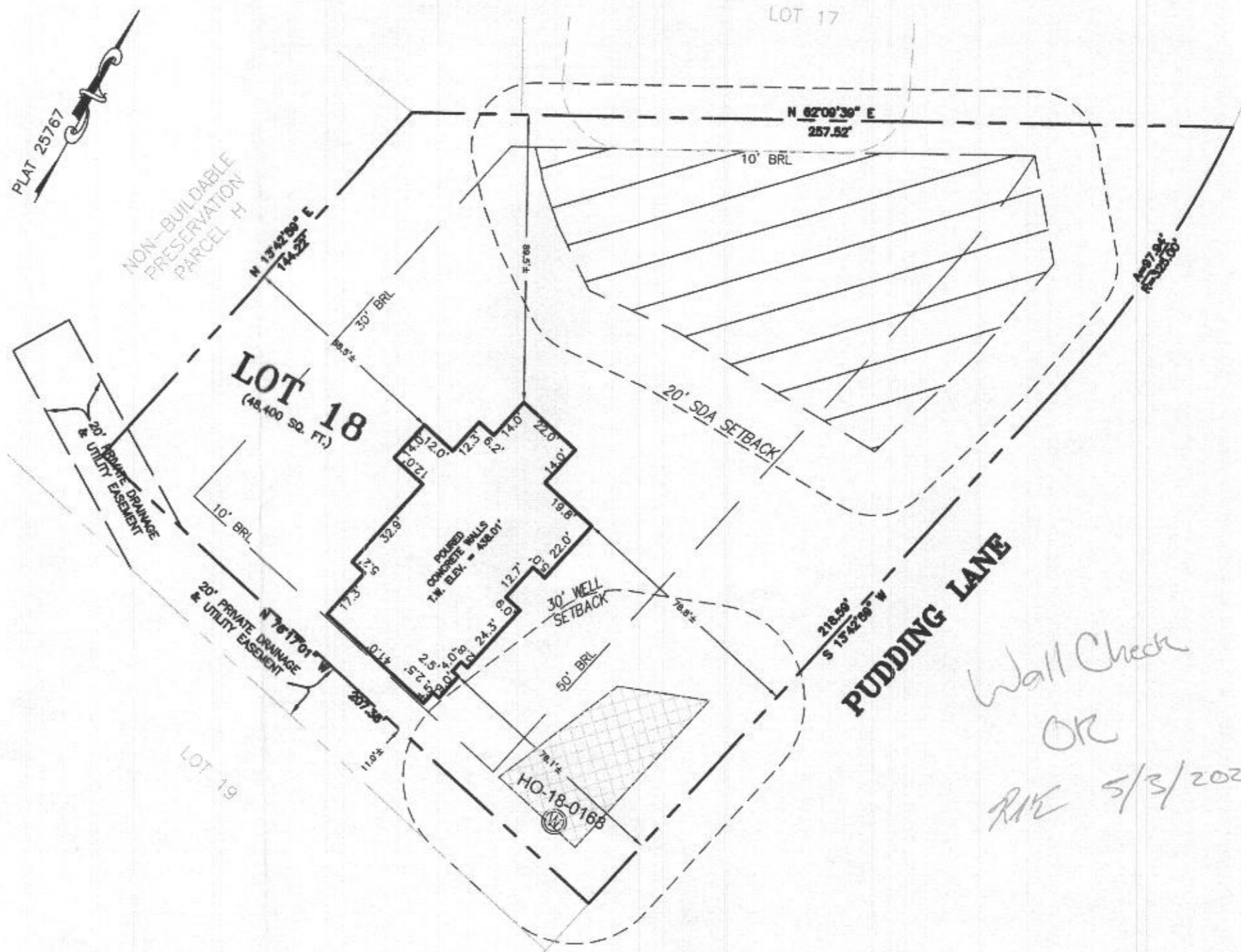
BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPEMENT PLAN  
SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.

### 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.

SIGNATURE: *Michael Joe Boyce* 21328 03/29/22  
MD. LIC NO. DATE



Wall Check  
OK  
R/E 5/3/2022



WALLCHECK  
LOT 18  
KINGS FOREST  
LIBER 11372, FOLIO 431  
PLAT NO. 25767  
2nd ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

## ESE CONSULTANTS

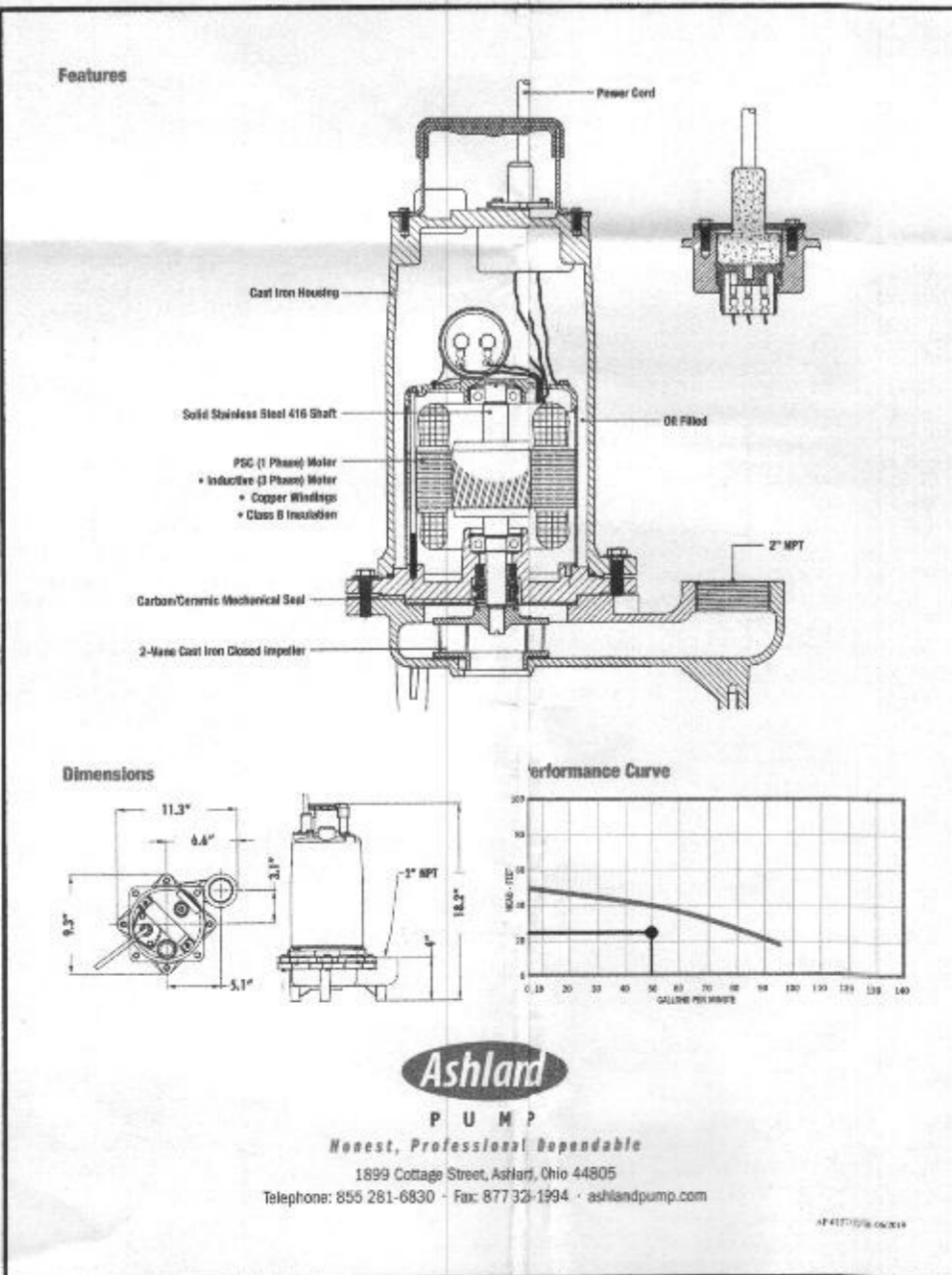
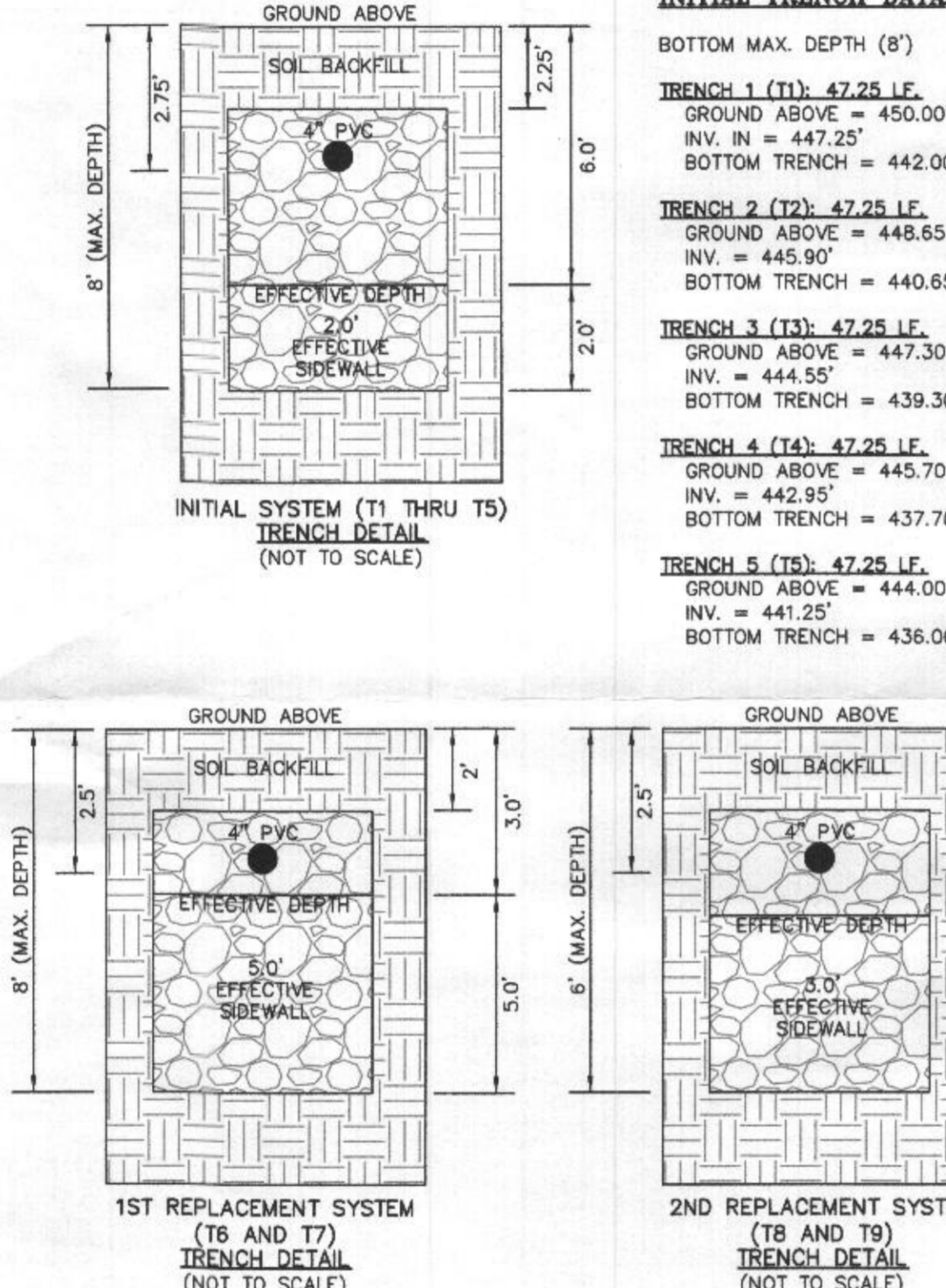
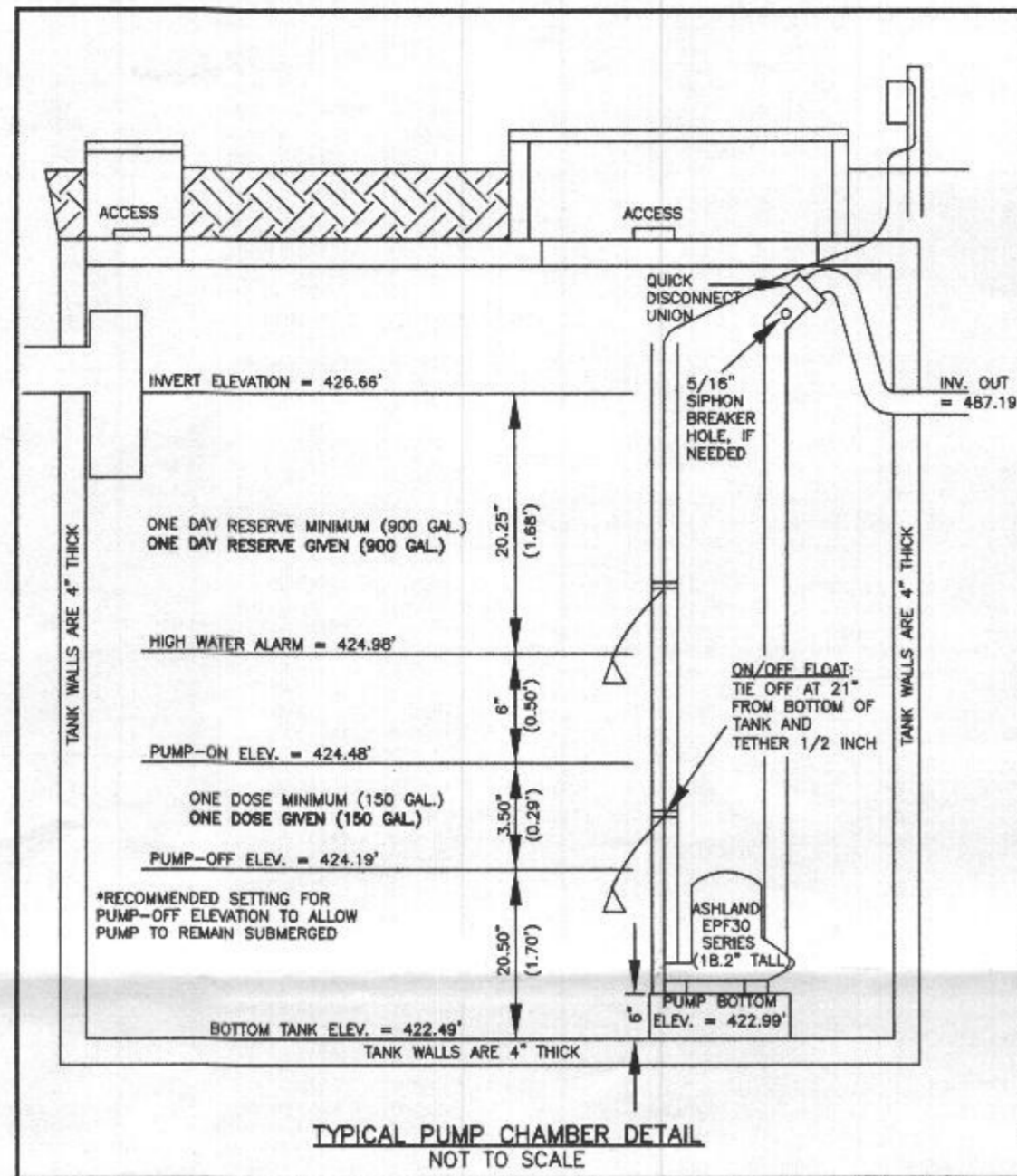
ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL

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

DATE: 03/29/2022  
CHK'D: M.J.B.

SCALE: 1" = 40'  
JOB NO: 3502

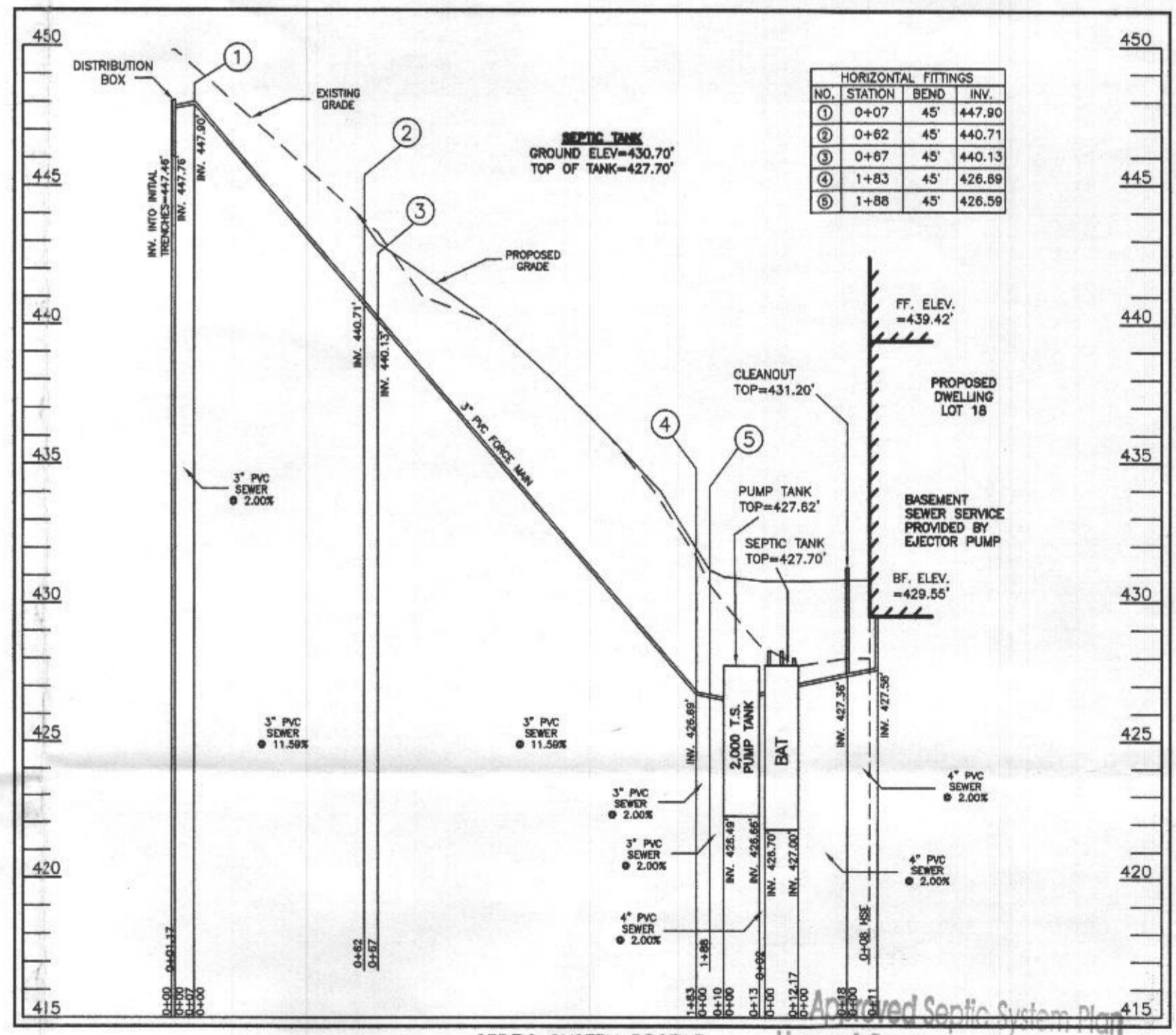
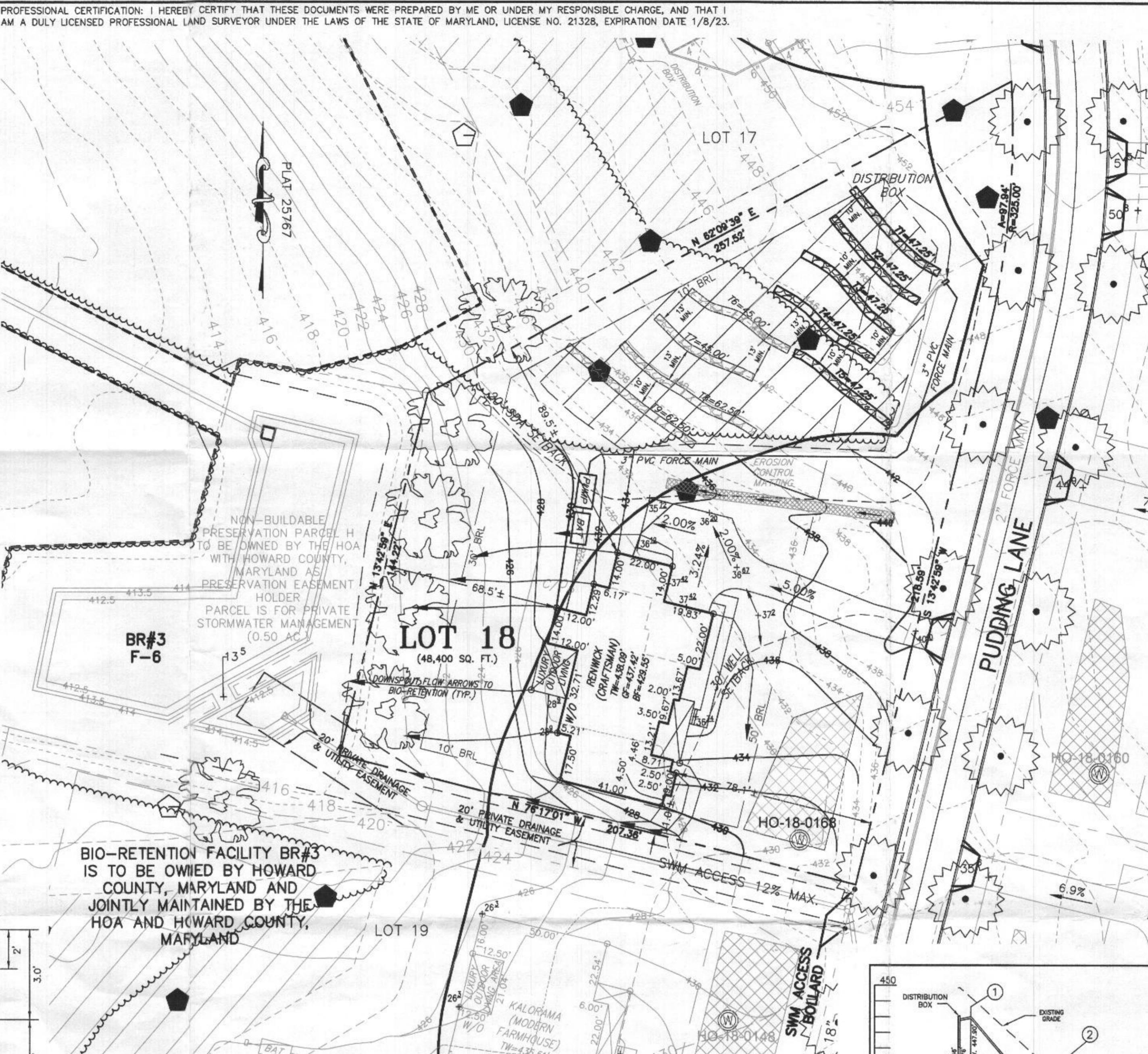
FILE: WC LOT 18  
DRAWN: V.X.P.



**HOUSE TYPE: RENWICK (CRAFTSMAN)**

**PUMP SYSTEM CALCULATIONS**

TOTAL DOSE PER DAY = 150 GALLONS X 6 EVENTS PER DAY IS 900 GPD			DESIGN FLOW		= 900 GPD		
			PUMP OFF ELEV.		= 424.19'		
TRENCH 1 (T1)	INV. ELEV.=447.25'	LENGTH=47.25'	INV. OFF PUMP TANK		= 428.49'		
TRENCH 2 (T2)	INV. ELEV.=445.90'	LENGTH=47.25'	PUMP BOTTOM ELEV.		= 422.99'		
TRENCH 3 (T3)	INV. ELEV.=444.55'	LENGTH=47.25'	PUMP SELECTED		= 1.72' HP		
TRENCH 4 (T4)	INV. ELEV.=442.95'	LENGTH=47.25'					
TRENCH 5 (T5)	INV. ELEV.=441.25'	LENGTH=47.25'					
FORCEMAIN LENGTH = 200.00'		TYPE=SCH40					
**PUMPING FORCEMAIN TO A DISTRIBUTION BOX AND GRAVITY FLOW FROM DISTRIBUTION BOX TO TRENCHES, NO MANHOLE AND TRENCH CALCULATIONS NEEDED							
MIN. SYSTEM DISCHARGE RATE		= 50	GPM				
MANHOLE DIAMETER		= 3	IN.				
FORCE MAIN DIAMETER		= 3	IN.				
MINIMUM DOSE		= 150	GAL.				
		VELOCITY =	2.17	FPS			
		VELOCITY =	2.17	FPS			
		FRICTION LOSS (TABLE 4.4)		= 0.58			
		FRICTION LOSS (TABLE 4.4)		= 0.58			
CALCULATE TOTAL DESIGN HEAD							
LENGTH OF FM FROM PUMP TANK TO DISTRIBUTION BOX = 200.00'							
# OF (45') BENDS IN FM =		5		(ADD 6' PER BEND) = 30.00'			
# OF (90°) BENDS IN FM =		N/A		(ADD 10' PER BEND) = N/A			
TOTAL LENGTHS		= 200.00'		TOTAL PIPE/ FRICTION LOSS = 230.00'			
(50 GPM OF 3" PVC = 0.58 PER 100' PIPE); 0.108 / 100' = 0.0058 x 230.0' = 1.33")		TOTAL ADD'L LENGTHS = 30.00'					
		TOTAL PIPE/ FRICTION LOSS = 230.00'					
FRICTION HEAD = 1.33'		FT. (PER ABOVE CALCULATION)					
STATIC HEAD = 23.71'		FT. (HIGHEST POINT IN DISTRIBUTION SYSTEM - PUMP OFF FLOAT ELEVATION)					
TOTAL DYNAMIC HEAD = 25.04'		FT. (FRICTION HEAD + STATIC HEAD)					
THEREFORE A PUMP CAPABLE OF DELIVERING AT LEAST 50 GPM AGAINST 25.04' OF HEAD IS REQUIRED.							
EPF50M1-20, 1/2 HP, IS EFFICIENT							



SEWAGE DISPOSAL SYSTEM DATA (6 BDRM):

PROPOSED INVERT AT FOUNDATION WALL: 427.58'  
1. EX. GRADE OVER TANK: 428.00'  
PROPOSED GRADE OVER TANK: 430.70'  
INVERT IN: 427.00' INVERT OUT: 428.70'

2. DISTRIBUTION BOX  
EXISTING GRADE OVER TANK: 449.80'  
PROPOSED GRADE OVER TANK: 449.80'  
INVERT IN: 447.78' INVERT OUT: 447.48'

3. INITIAL TRENCH DESIGN (6 BORM x 150 GPD/BORM = 900 GPD)  
900 GPD x 0.8 APP. RATE = 720' (SIDEWALL REDUCTION) = 236.25 LF  
USE 3" WIDE TRENCH WITH 63" GRAVEL BELOW PIPE  
10" MIN. SPACING BETWEEN TRENCHES  
720' SP ÷ 3" WTH = 240' (SIDEWALL REDUCTION) = 236.25 LF MIN.  
USE 5 47.25' LONG TRENCHES = 236.25 LF

4. 1ST REPLACEMENT TRENCH DESIGN (6 BORM x 150 GPD/BORM = 900 GPD)  
900 GPD x 1.2 APP. RATE = 750' (SIDEWALL REDUCTION) = 236.25 LF  
USE 3" WIDE TRENCH WITH 68" GRAVEL BELOW PIPE  
13" MIN. SPACING BETWEEN TRENCHES  
750' SP ÷ 3" WTH = 250' LF x 36" (SIDEWALL REDUCTION) = 90.00 LF MIN.  
USE 2 45.00' LONG TRENCHES = 90.00 LF

5. 2ND REPLACEMENT TRENCH DESIGN (6 BORM x 150 GPD/BORM = 900 GPD)  
900 GPD x 1.2 APP. RATE = 750' (SIDEWALL REDUCTION) = 236.25 LF  
USE 3" WIDE TRENCH WITH 68" GRAVEL BELOW PIPE  
10" MIN. SPACING BETWEEN TRENCHES  
750' SP ÷ 3" WTH = 250' LF x 36" (SIDEWALL REDUCTION) = 125.00 LF MIN.  
USE 2 62.50' LONG TRENCHES = 125.00 LF

ALL LOCATION CERTIFICATION:

EXISTING WELL SHOWN FOR LOT 18 (TAG NO. HO-18-0168)  
BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

SITE PLAN FOR BAT INSTALLATION  
LOT 18  
**KINGS FOREST**  
LIBER 11372, FOLIO 431  
PLAT NO. 25767  
ELECTION DISTRICT No. 2  
HOWARD COUNTY, MARYLAND  
ADDRESS: 10512 PUDDING LANE  
ELLCOTT CITY, MARYLAND 21042

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

DATE: 01/18/2022	SCALE: 1"=30'	FILE: BAT LOT 18
CHK'D: M.J.B	JOB NO: 4520	DRAWN: R.C.K