

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

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 DATE: 9-17-21 ONSITE SEWAGE DISPOSAL SYSTEM P 570152

APPROVAL DATE: 06/28/2022 PERMIT: CONSTRUCTION A

PROPERTY ADDRESS: 12457 Kondrup Dr. Fulton, MD 20759

SUBDIVISION: Beaufort Estates LOT: 19 TAX ID: 1405431158

CONTRACTOR: Hatfields EMAIL:

CONTRACTOR ADDRESS: PHONE:

CONTRACTOR CERTIFIED FOR BAT INSTALLATION: [X] MDE [X] MANUFACTURER: Norweco

PROPERTY OWNER: Donald & Cathy Heald EMAIL:

OWNER ADDRESS: 102 Steeplewood Dr. PHONE:

BAT UNIT MODEL: TNT500 PUMP SIZE: 0.5hp PUMP TANK CAPACITY: 2000

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: 6/4/2021 DATE RECORDED: 7/20/2021

DISTRIBUTION SYSTEM: [X] GRAVITY [ ] PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: 0.8

Table with trench specifications: LINEAR FEET REQUIRED: 86, TRENCH WIDTH: 3, MINIMUM SPACE BETWEEN TRENCHES: 11, INLET DEPTH: 4, MAXIMUM BOTTOM DEPTH: 8, EFFECTIVE AREA BEGINNING DEPTH: 4

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 Freeman ISSUE DATE: 9-23-21 EXPIRATION DATE: 9-17-22

- 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 DOWNGRADE 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
[X] ELECTRICAL PERMIT ISSUED E E21005024
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	INLET	BOTTOM
3'	4'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		86 F
ABSORPTION AREA		258 SF + 4' SIDE WALL
DISTRIBUTION BOX LEVEL		PUMP
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	NORWECO BACKRIVER
CAPACITY	TNTL 1500 GAL
SEAM LOC	TOP
TANK LID DEPTH	3'
BAFFLES	BAT
BAFFLE FILTER	BAT
MANHOLE LOC	FRONT/MID/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	BAT
DATE ON LID	10/20/2021
PUMP/SEPTIC TANK LEVEL	YES
MANUFACTURER	TRAFFIC B BABYLON
CAPACITY	1500 GAL
SEAM LOC	TOP
TANK LID DEPTH	3'-4'
BAFFLES	-
BAFFLE FILTER	-
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	-
DATE ON LID	10/14/2021

PRE-CONSTRUCTION:

11/02/2021 CONFIRMED CONTOUR AND SPEC AT TRENCHES. SHOT ELEV FOR SHC TO BAT; 4.3' COVER PROJECTED ON TANK. P

INSTALLATION: 11/17/2021 INSTALLED BAT NORWECO; PUMP TANK TO BE DELIVERED (PM) PUMP TANK SET. 11/18/2021 INSTALLED 2x 43' TRS; INSTALLED FORCE MAIN SL ON FILL - DIG TO VIRGIN + BED IN STONE. P 11/19/2021 SHC INSTALLED. OK TO BACKFILL P 11/22/2021 INSTALLED SEWER LINE P 06/28/2022 P/A ABS ALARM FUNCTIONS, PUMP FUNCTIONS. ELECTRICAL IS ON SUB PANEL INSTALL PRIOR TO 30" MEMO FOR MDE. P

FINAL INSPECTOR

*[Handwritten Signature]*

DATE OF APPROVAL

06/28/2022





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

**NORWECO CERTIFICATION**

PROPERTY OWNER: CATHY HEALD	INSTALLATION COMPANY: HATFIELD'S
ADDRESS: 12457 KONDRUP DR.	CERTIFIED INSTALLER: TODD TRACEY
CITY, ZIPCODE & COUNTY: FULTON, 20759, HOWARD	PERMIT#
SIZE OF SYSTEM INSTALLED:	DATE INSTALLED: 11-17-21
600 GPD CONCRETE	START-UP DATE: 06-30-22
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: 48"	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): 36"	VENTED LID(S) ON AERATION CHAMBER(S): YES
FEMALE PLUG(S) WIRED TO UF WIRE: YES	ANY GROUND SETTLING AROUND TANK: NO
CONDUIT(S) ENTERING AERATION RISER MADE WITH A WATERTIGHT CONNECTION: YES	
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.

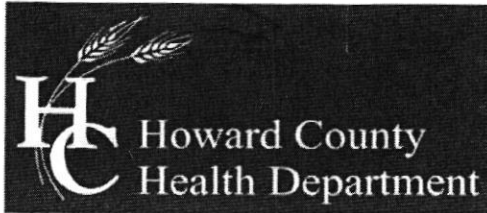
Matthew Geckle

June 30,2022

Signature of BRP Representative

Vice-President

Date



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Twitter: HowardCoHealthDep

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APPLICATION FOR VARIANCE
TO COMAR ONSITE WATER/SEWER FOR MDE APPROVAL

Date Submitted
12457 Kondrup Dr. Fulton, MD 20759

Property Address
Beaufort Estates
Subdivision 19 Lot 00045 Tax Map 0006 Grid 0014 Parcel 1405431158 Tax Account #

Provide a brief site history including previously submitted and active plans with the Health Department or the County (subdivision plans, perc test applications, Building Permit applications):
On-Site Sewage Dipsosal System Plan has been submitted for approval.

In the area below, list the specific section of the Code of Maryland Regulations (COMAR) to which a variance is being requested and provide a brief summary of the regulation and an explanation of why the variance is being requested (Attach a separate sheet if necessary).

Table with 2 columns: Regulation Section, Summary and Explanation. Row 1: 1. COMAR 26.04.02.05.B.(2) Proposed septic system is directly upgrade of HO-94-3599 & HO-94-0468

Donald L. Hall
Property Owner's Signature

Health Department Use Only

Reviewed by R. Freeman HCHD Staff Date
Recommendation: [X] Recommended [ ] Not Recommended
HCHD Supervisor Date 6/21/21
Comments/Conditions: - BAT

DocuSigned by: Steven R. Krieg LEHS REHS/RS
Approved by: MDE Representative Date 6/30/2021



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

**OPERATION AND MAINTENANCE AGREEMENT  
FOR AN ON-SITE SEWAGE DISPOSAL SYSTEM  
HAVING AN ADVANCED PRE-TREATMENT SYSTEM**

LR - Agreement	
Recording Fee	20.00
Name: heald	
Ref: 47	
LF - Agreement	
Swcharges	40.00
SubTotal:	60.00
Total:	60.00

THIS AGREEMENT is made this 4th day of June 2021, among DONALD & CATHY HEALD, 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 12457 KONDRUP DRIVE, in the 5TH 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 # 45, Block # 0006, Parcel # 0006, Reference # 19798 / 220 and Tax Account # 431158 ("the Property")

07/20/2021 10:22  
#15211306 CC0503 -  
Howard Co Ellicott  
By/CC05.03.11 -  
Register 11

20  
40  
M

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 HOOT SYSTEM H-600A.

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

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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.

*Michael J. Davis 7/9/2021*  
Howard County Health Department

*Donald L. Heald* 6/4/21  
Owner #1 Signature Date

**Donald Heald**  
Owner #1 Print Name

*Cathy Heald* 6/4/21  
Owner #2 Signature Date

**Cathy Heald**  
Owner #2 Print Name

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

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

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

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

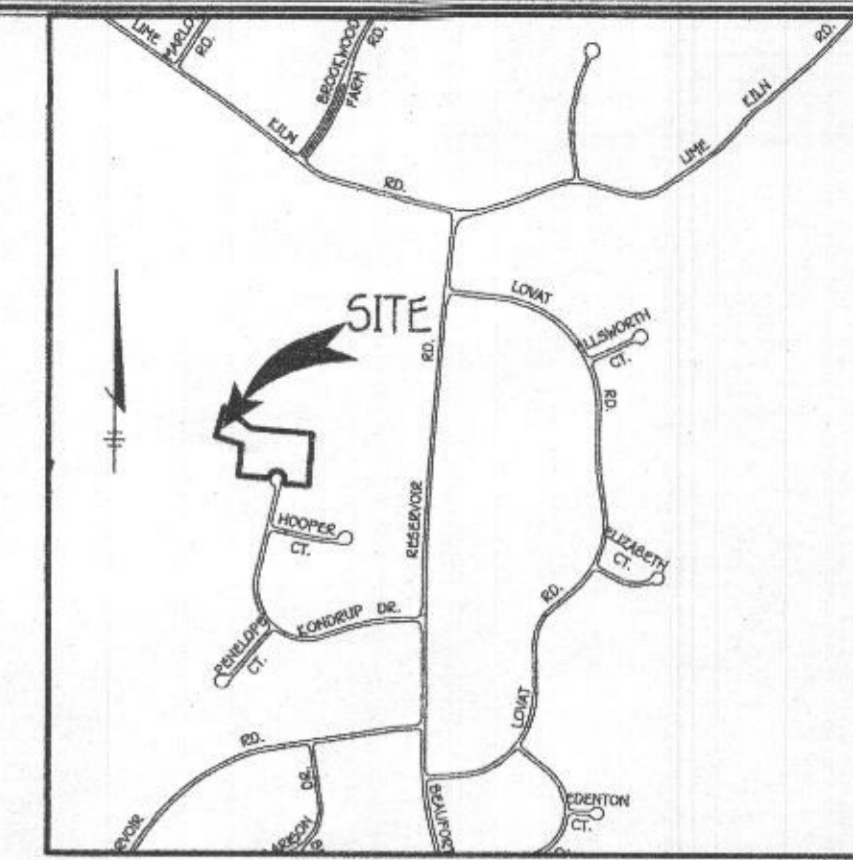
**SOILS LEGEND**

SOIL	NAME	CLASS	'K' VALUE
GnB	Glenville-Balle silt loams, 0 to 8 percent slopes	C	.49
MaC	Manor loam, 8 to 15 percent slopes	B	.32
MaD	Manor loam, 15 to 25 percent slopes	B	.32

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 EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
4. THE WELLS HO-94-0468 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
5. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
6. WELLS HO-94-0468 MUST PASS YIELD TESTING PRIOR TO BUILDING PERMIT APPROVAL.

**BAT 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 COVER OVER THE BAT SHALL BE 3 FEET.
3. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
4. THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
5. 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.
6. ANY ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
7. THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.
8. SURFACE RUNOFF SHALL BE DIRECTED AROUND THE BAT TANK.



Howard County ADC, Map Map #16, Grid D7  
**VICINITY MAP**  
SCALE: 1" = 1200'

**INITIAL SYSTEM**

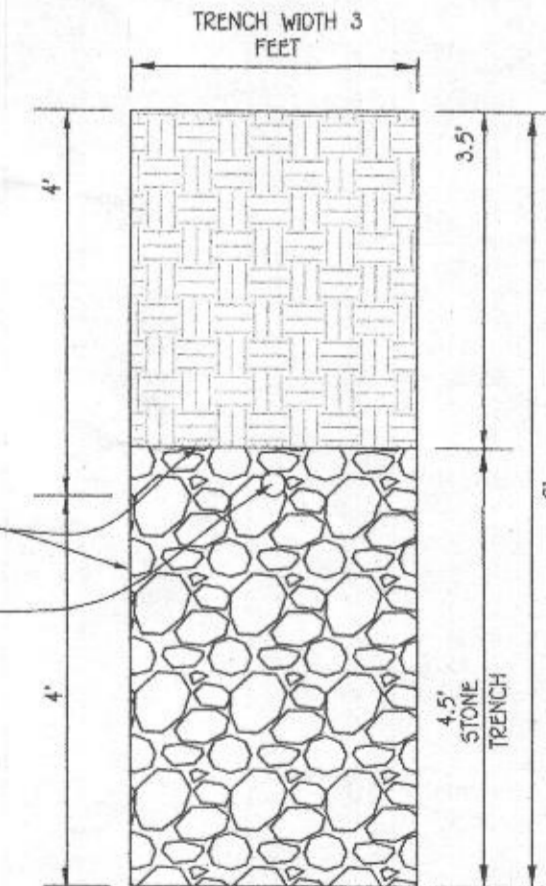
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS  
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD  
APPLICATION RATE = 1.2  
EFFECTIVE SIDEWALL BEGINS AT 4 FEET  
TRENCH DEPTH = 8 FEET  
TRENCH WIDTH (W) = 3 FEET  
EFFECTIVE DEPTH (D) = 4 FEET  
SF OF DRAINFIELD = 750 GPD / 1.2 = 625 SF  
COEFFICIENT OF REDUCTION OF TRENCH LENGTH =  $(W+2)/(W+1+2D) = (3+2)/(3+1+(2x4)) = 0.41$   
TRENCH LENGTH = 208.33 SF x 0.41 = 85.42 FEET  
(USE 2 TRENCHES AT 42.71 L.F.)  
TRENCH SPACING = 2D+W = ((2x4) + 3) = 11' USE 11'

**1ST REPLACEMENT SYSTEM**

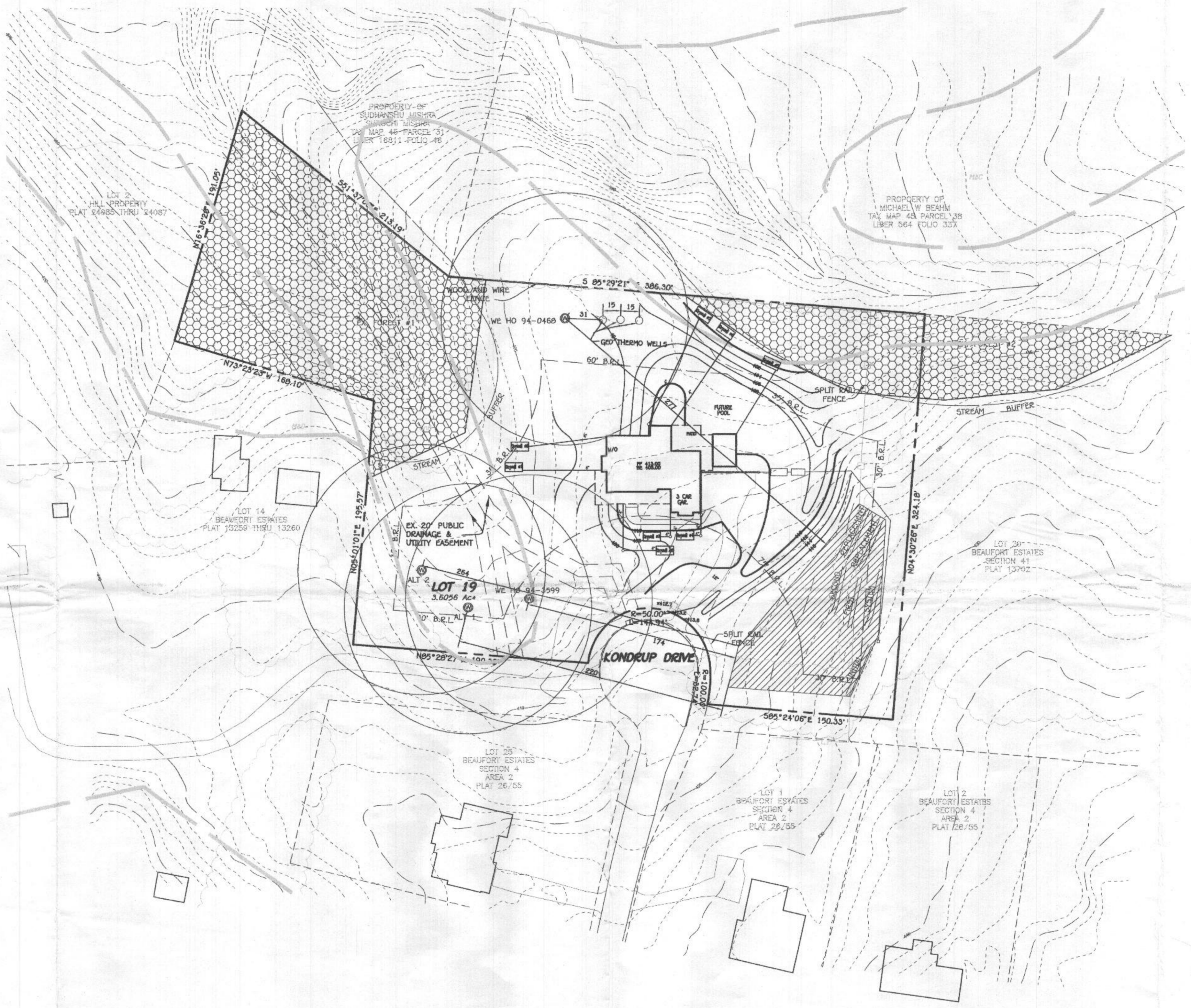
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS  
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD  
APPLICATION RATE = 1.2  
EFFECTIVE SIDEWALL BEGINS AT 4 FEET  
TRENCH DEPTH = 8 FEET  
TRENCH WIDTH (W) = 3 FEET  
EFFECTIVE DEPTH (D) = 4 FEET  
SF OF DRAINFIELD = 750 GPD / 1.2 = 625 SF  
COEFFICIENT OF REDUCTION OF TRENCH LENGTH =  $(W+2)/(W+1+2D) = (3+2)/(3+1+(2x4)) = 0.41$   
TRENCH LENGTH = 208.33 SF x 0.41 = 85.42 FEET  
(USE 2 TRENCHES AT 42.71 L.F.)  
TRENCH SPACING = 2D+W = ((2x4) + 3) = 11' USE 11'

**2ND REPLACEMENT SYSTEM**

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS  
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD  
APPLICATION RATE = 1.2  
EFFECTIVE SIDEWALL BEGINS AT 4 FEET  
TRENCH DEPTH = 8 FEET  
TRENCH WIDTH (W) = 3 FEET  
EFFECTIVE DEPTH (D) = 4 FEET  
SF OF DRAINFIELD = 750 GPD / 1.2 = 625 SF  
COEFFICIENT OF REDUCTION OF TRENCH LENGTH =  $(W+2)/(W+1+2D) = (3+2)/(3+1+(2x4)) = 0.41$   
TRENCH LENGTH = 208.33 SF x 0.41 = 85.42 FEET  
(USE 2 TRENCHES AT 42.71 L.F.)  
TRENCH SPACING = 2D+W = ((2x4) + 3) = 11' USE 11'



**INITIAL TRENCH DETAIL**



**PLAN**

SCALE: 1" = 50'

**LEGEND**

SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 2' INTERVAL
---	EXISTING TREES
▲457.70	SPOT ELEVATION
-SF - SF	SILT FENCE
---	LIMITS OF DISTURBANCE
---	DENOTES 15% - 24.9% SLOPES
---	DENOTES SEWAGE DISPOSAL AREA

NOTE: NO GRAVITY SEWER SERVICE FOR LOT 19



**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. 20748, EXPIRATION DATE: 02/22/2023.

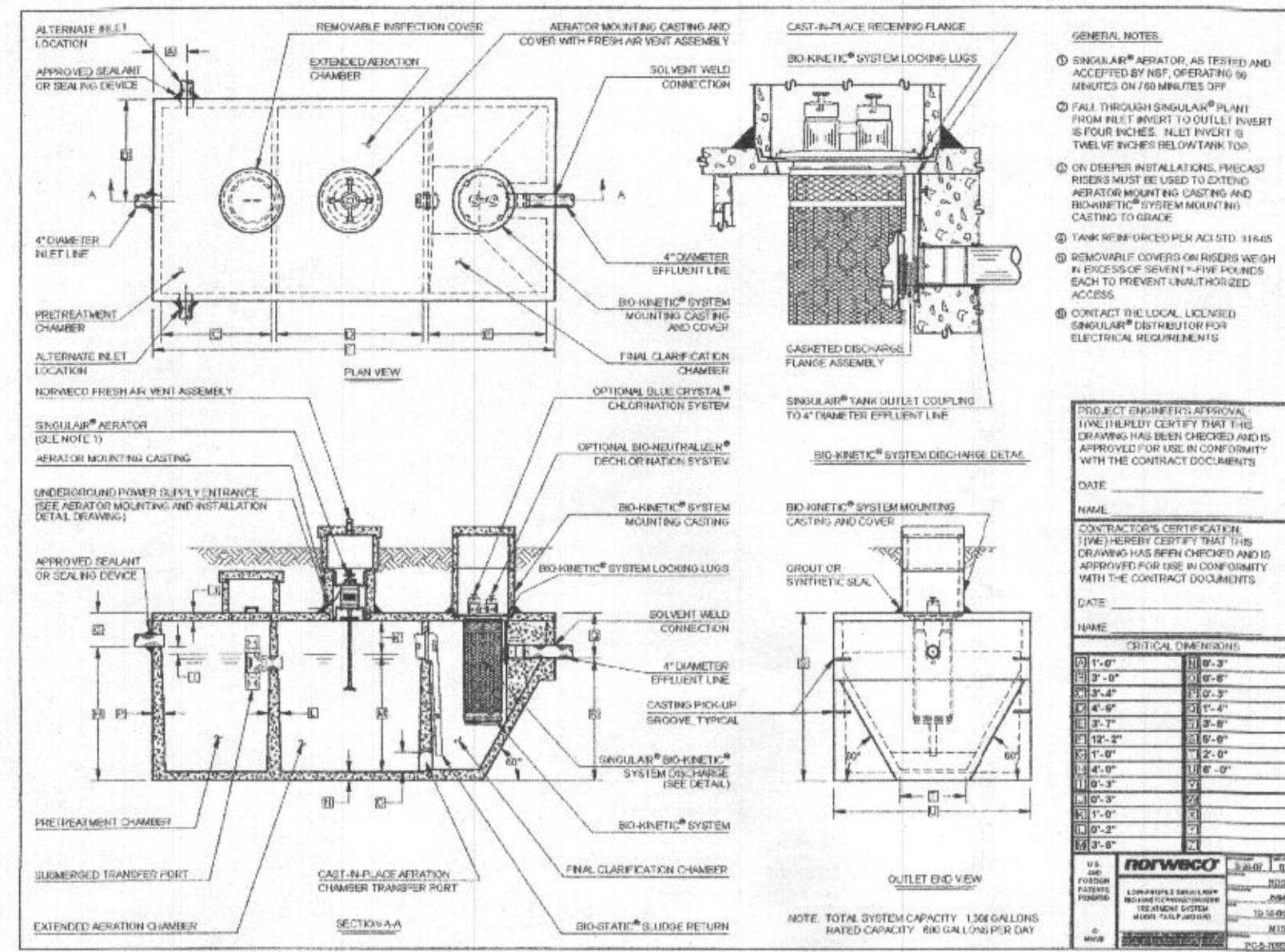
*Alfred M. Vitarelli*  
Signature Of Professional Engineer  
10/1/21  
DATE

Approved Septic System Plan  
Howard County Health Department  
*Robert J. ...*  
Signature Date

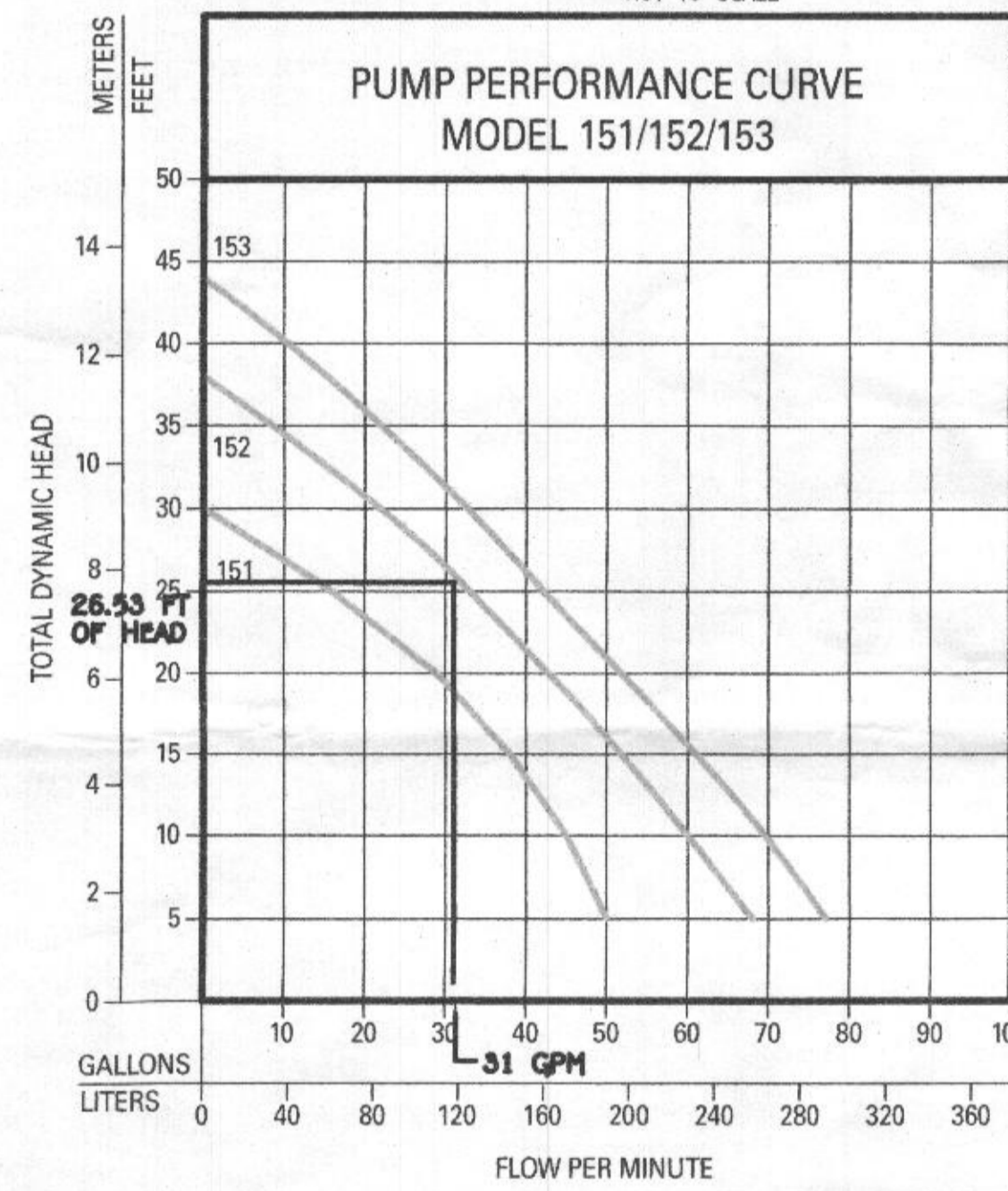
**OWNER**  
DONALD & CATHY HEALD  
102 STEEPLEWOOD DR  
EXTON PA 19341

**BAT SITE PLAN  
INSTALLATION SITE PLAN  
BEAUFORT ESTATES**

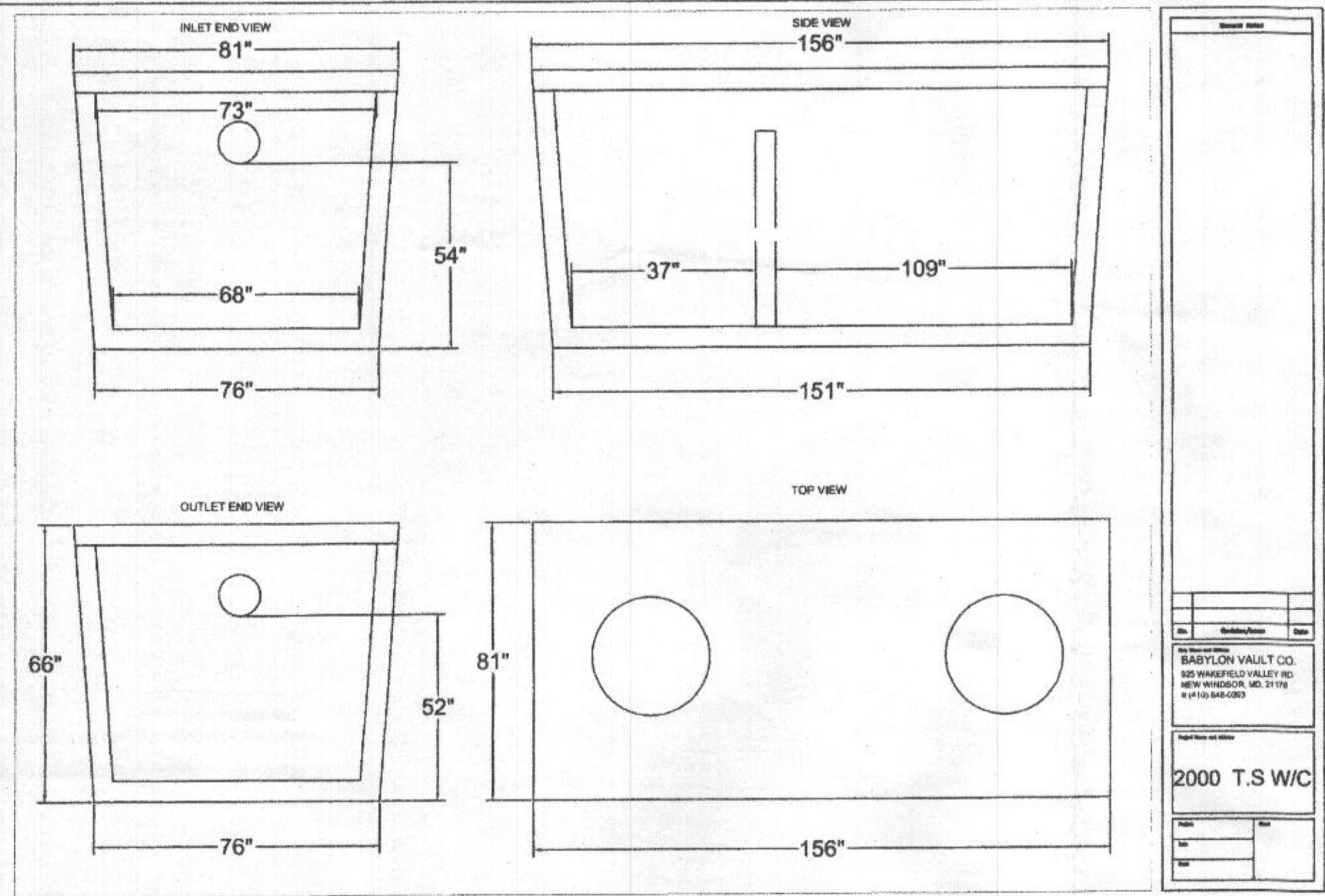
**LOT 19**  
SECTION ONE  
ZONED RS-DEO  
TAX MAP No. 45 GRID No. 6 PARCEL No. 14  
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE 1"=50' DATE: SEPTEMBER 29, 2021  
SHEET: 1 OF 2



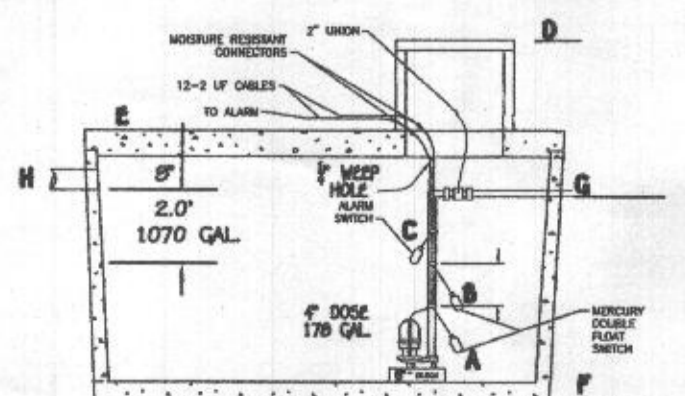
**PUMP TANK DETAIL**  
NOT TO SCALE



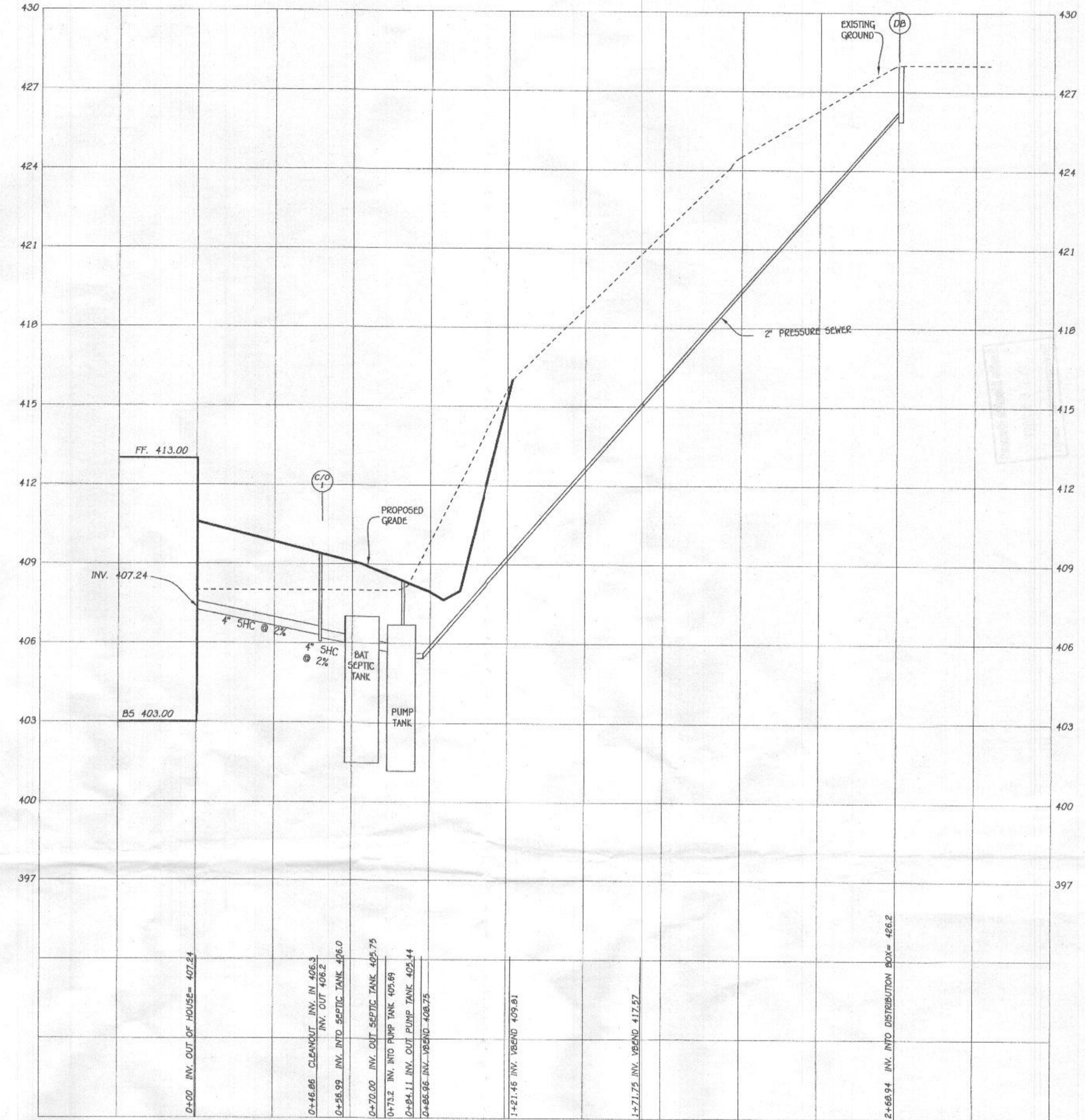
NOTE: SEPTIC SYSTEM ALARM WILL BE ON A CIRCUIT SEPARATE FROM ANY OTHER SEPTIC SYSTEM COMPONENTS OR ALARMS.



- PUMP ALARMS / INFORMATION**
- A PUMP OFF : 403.44
  - B PUMP ON : 403.11
  - C HIGH WATER ALARM : 403.94
  - D TOP OF ACCESS COVER : 409.69
  - E TOP OF TANK : 406.69
  - F BOTTOM OF TANK : 400.94
  - G DISCHARGE OUT OF TANK : 405.44
  - H INLET INTO TANK : 405.69



1070 + 300 = 1370 GALLONS EMERGENCY STORAGE.  
NOTE: THIS DETAIL IS TO BE USED FOR FLOAT CONFIGURATION ONLY - SEE DETAIL ABOVE FOR TANK DIMENSIONS AND ACTUAL LOCATION OF ACCESS COVER.



Approved Septic System Plan  
Howard County Health Department  
*[Signature]* 10/1/2021  
Signature Date

2" SCH. 40 PVC = 185 LF  
1 UNION @ 2 EQUIVALENT FEET = 2 LF  
2 1/8" HD @ 4 EQUIVALENT FEET = 8 LF  
TOTAL LINEAR FEET OF 2" SCH. 40 PVC = 295 LF

**DYNAMIC HEAD**  
195 LF X 2.05 FT PER 100 LF OF 2" PIPE = 4.00 FT OF FRICTION HEAD  
VERTICAL FROM PUMP OFF TO HIGH POINT IN PUMP CHAMBER = 2.03 FT OF FRICTION HEAD  
HIGH POINT IN PUMP CHAMBER TO HIGHEST ELEV. OF SYSTEM = 20.5 FT (PUMP OUT IS THE HIGHEST POINT)  
TOTAL DYNAMIC HEAD = 26.53 FT

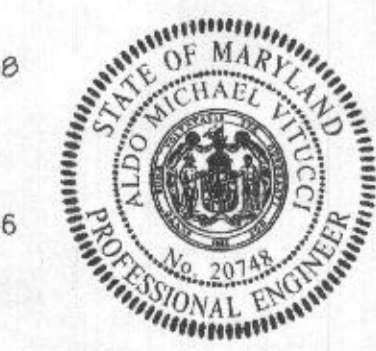
1/6" DESIGN FLOW (750/6=125) PLUS VOLUME OF 2" PIPE (30 GALLONS)  
USE 150 GALLON DOSE (125 GALLON MINIMUM)  
(RUN TIME = 5.7 MIN (31 GPM X 5 = 175 GALLON DOSE))

PUMP NEEDS TO HANDLE 31 GPM AT 26.53 FT OF HEAD  
USE 0.5 HP (ZOELLER MODEL 152 PUMP)

**TRENCH DATA:**

TRENCH 1:  
EX. GROUND ABOVE = 430  
INV. IN = 434  
BOTTOM TRENCH = 430

TRENCH 2:  
EX. GROUND ABOVE = 436  
INV. IN = 432  
BOTTOM TRENCH = 428



**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. 20748, EXPIRATION DATE: 02/22/2023.  
*[Signature]* 10/1/21  
Signature Of Professional Engineer DATE

**BAT SITE PLAN  
INSTALLATION SITE PLAN  
BEAUFORT ESTATES**

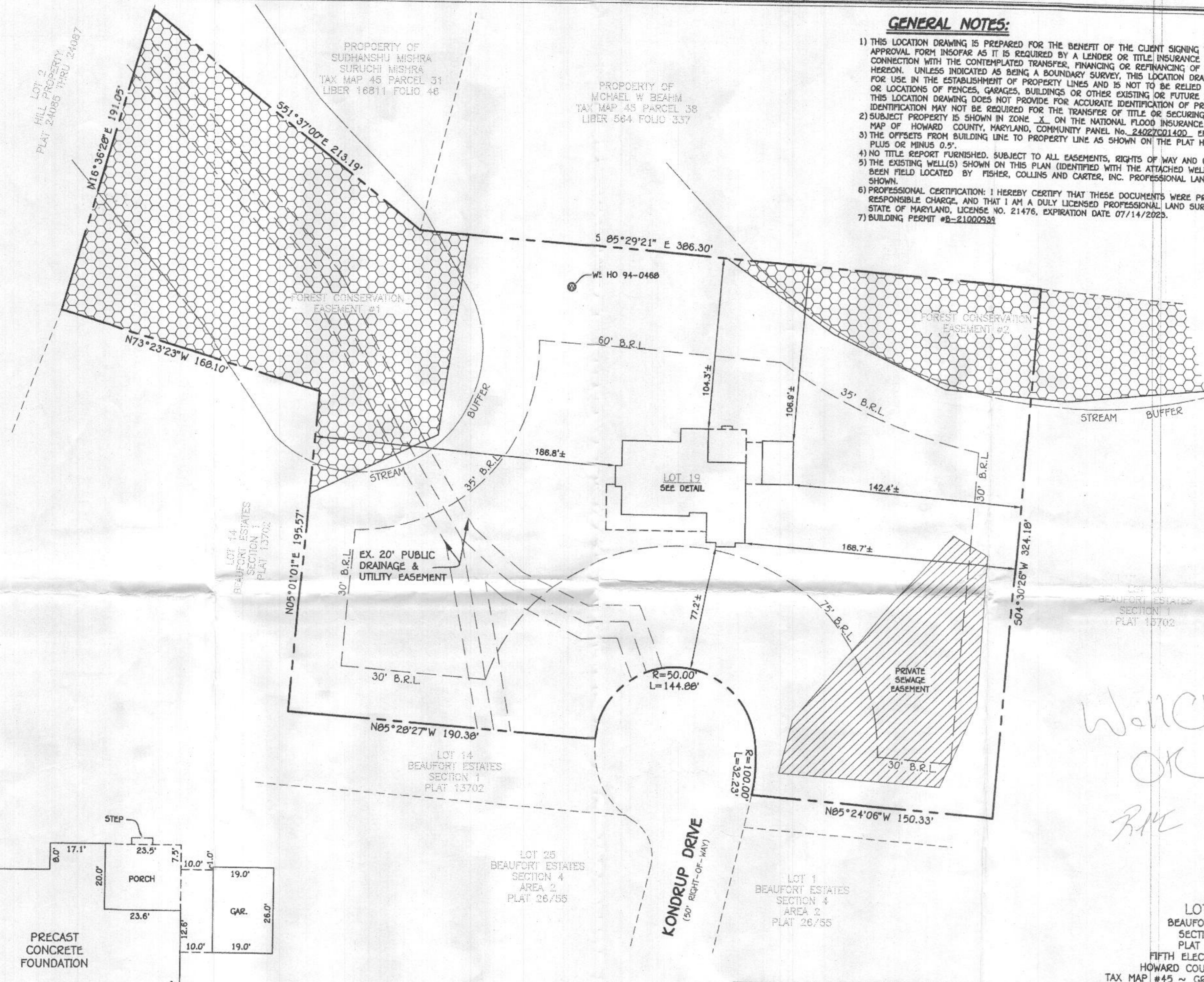
LOT 19  
SECTION ONE  
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5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
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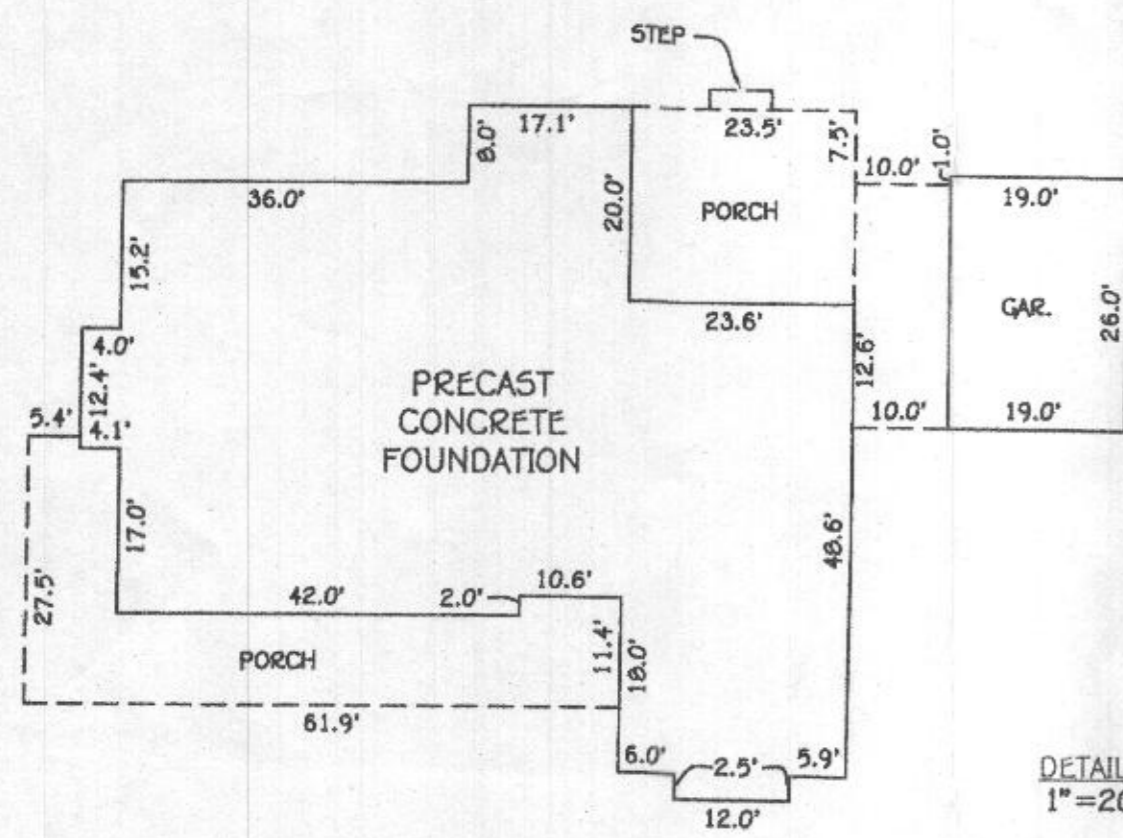


**GENERAL NOTES:**

- 1) THIS LOCATION DRAWING IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM INsofar AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR REFINANCING OF THE PROPERTY SHOWN HEREON. UNLESS INDICATED AS BEING A BOUNDARY SURVEY, THIS LOCATION DRAWING IS NOT INTENDED FOR USE IN THE ESTABLISHMENT OF PROPERTY LINES AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATIONS OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE IMPROVEMENTS. AS A RESULT, THIS LOCATION DRAWING DOES NOT PROVIDE FOR ACCURATE IDENTIFICATION OF PROPERTY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING FOR RE-FINANCING.
- 2) SUBJECT PROPERTY IS SHOWN IN ZONE X ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL No. 24027001400 EFFECTIVE 11/6/2013.
- 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF PLUS OR MINUS 0.5'.
- 4) NO TITLE REPORT FURNISHED. SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND CONDITIONS OF RECORD.
- 5) THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-94-0468 HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.
- 6) 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. 21476, EXPIRATION DATE 07/14/2023.
- 7) BUILDING PERMIT #B-21000933



*Wall Check  
OK  
RMC 9/23/2021*



DETAIL:  
1"=20'

#12457 KONDRUP DRIVE  
B.R.L. = BUILDING RESTRICTION LINE  
TOP OF FOUNDATION ELEVATION = 411.5'

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21042  
(410) 461-2855

Frank John Mauldin II 9/14/21  
PROFESSIONAL LAND SURVEYOR DATE  
REG. #21476

**LOCATION SURVEY**

FOUNDATION LOCATION: 9/28/21  
FINAL LOCATION: \_\_\_\_\_  
BOUNDARY SURVEY: \_\_\_\_\_

SCALE: 1"=40'  
DATE: 9/13/2021  
DRAWN BY: MD  
CHECKED BY: AMS  
PROJECT No.: 20216-6001

LOT 19  
BEAUFORT ESTATE  
SECTION ONE  
PLAT #13702  
FIFTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
TAX MAP #45 ~ GRID #6 ~ PARCEL #14

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PROPERTY OF  
MICHAEL W BEAHM  
TAX MAP 40 PARCEL 38  
LIBER 584 FOLIO 337



LOT 19  
3.6056 Ac±

KONDRUP DRIVE

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