

**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: 7-28-23 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 574972

APPROVAL DATE: 8/11/2023 **PERMIT: CONSTRUCTION**

A

PROPERTY ADDRESS: 16467 Frederick Road

SUBDIVISION: Stanley Miller Property LOT: 13 TAX ID: \_\_\_\_\_

CONTRACTOR: Lancaster Builders EMAIL: \_\_\_\_\_

CONTRACTOR ADDRESS: 3120 Old Leonard Pike, Middlebrook, MD 21769 PHONE: 301-371-9101

PROPERTY OWNER: Jason Shadid and Debora Trotter EMAIL: \_\_\_\_\_

OWNER ADDRESS: 5925 Northern Court PHONE: 410-493-1782

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Babylon Vault Co.

PUMP MODEL: \_\_\_\_\_ PUMP SIZE \_\_\_\_\_ PUMP TANK CAPACITY: \_\_\_\_\_

DISTRIBUTION SYSTEM:  GRAVITY  PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>173.61</u>	INLET DEPTH: <u>X</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5.5</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:		

ISSUED BY: Dana Bernard ISSUE DATE: 7-25-23 EXPIRATION DATE: 7-28-24

- 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 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 \_\_\_\_\_
- 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.**

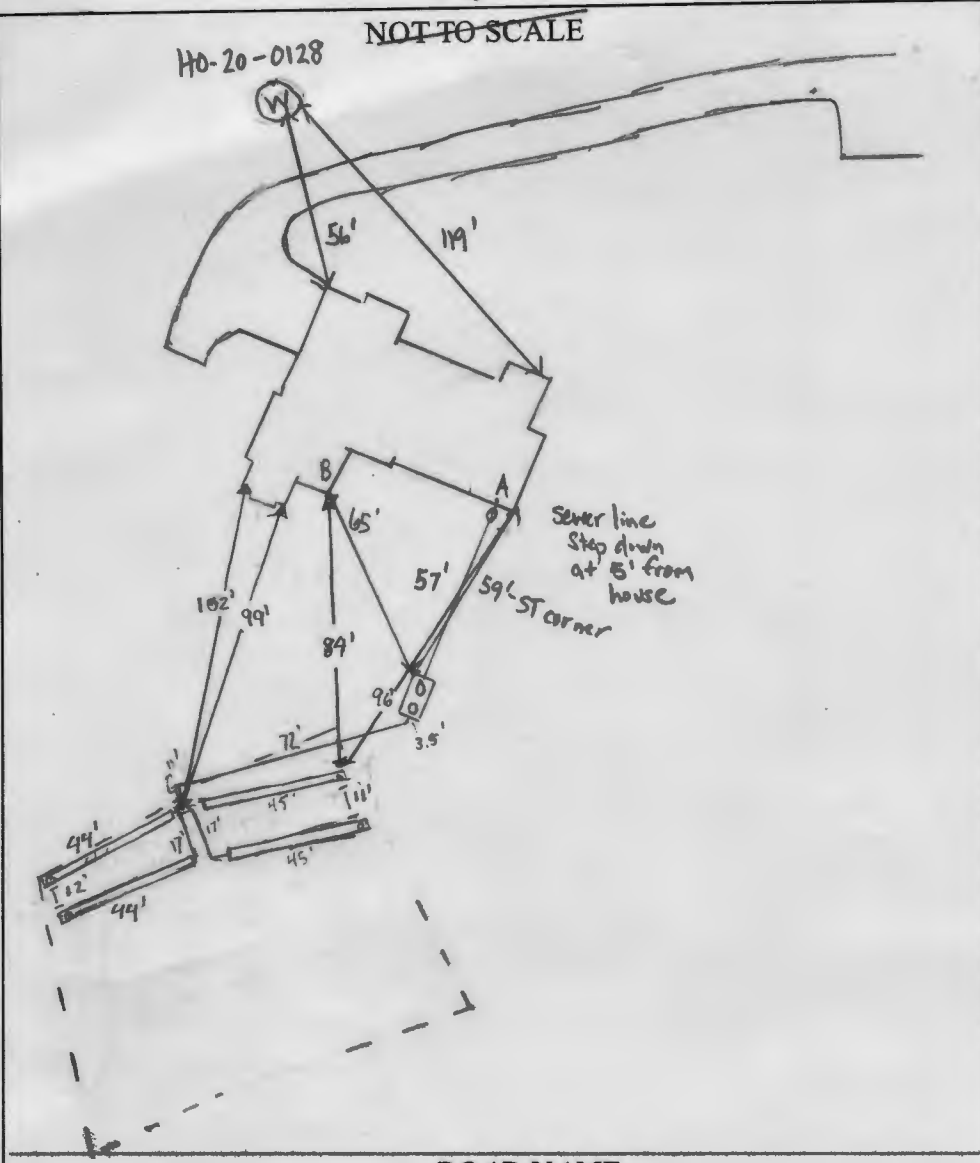
**PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.**

**CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

1" ≈ 60"

NOT TO SCALE

HO-20-0128



ROAD NAME

MDE measured Individual Performing work: Joe Harrison (FE Harrison & Sons)

PRE-CONSTRUCTION:

8/1/2023 - Met w/ Contractor & builder for layout. SDA started, tank & d box started. sewer started out of house. Trench lengths 53'-54'. Upper trench on contour by 2"-3" difference. Lower trenches on contour by 1" difference. Space bet- con trenches 13'-17'. Installer bringing inlet up for safety of workers. OK to start work. Geo well & probe well > 100' from trench & tank. (P)

INSTALLATION:

8/2/2023 - site insp. contractor onsite. sewer line to ST complete, SHC made, septic tank set and baffles in place. bedded w/ 5/8" Stone - ok to continue - (P) 8/3/23 - contractor onsite. line to d box completed and backfilled before inspection. trench distribution pipes not level after measurement w/ transit onsite. trenches also don't seem to be on contour, inlets higher near d box compared to ends, T3 & T4 backfilled before inspection, stone ok and fabric in place on T1 & T2. NO observation ports on any of the trenches, contractor instructed to fix trenches to add observation ports and make distribution pipes level. (P) 8/11/2023 - Installer added stone below pipe, inlet @ 4'-4.5' instead of 6'. Elevation from beginning of trenches to end 4" off. Levelled D-box. OK to backfill (P) BRONK

TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'		8'
NUMBER OF TRENCHES		4
TOTAL LENGTH		178'
ABSORPTION AREA		539 ft <sup>2</sup>
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		yes

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	yes
MANUFACTURER	Babylon
CAPACITY	2000 GAL
SEAM LOC	top
TANK LID DEPTH	12" - 18"
BAFFLES	front 6" / back 4"
BAFFLE FILTER	-
MANHOLE LOC	front / back
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	yes
DATE ON LID	6/20/23
PUMP/SEPTIC TANK LEVEL N/A	
MANUFACTURER	
CAPACITY	GAL
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

FINAL INSPECTOR

S. Page

DATE OF APPROVAL

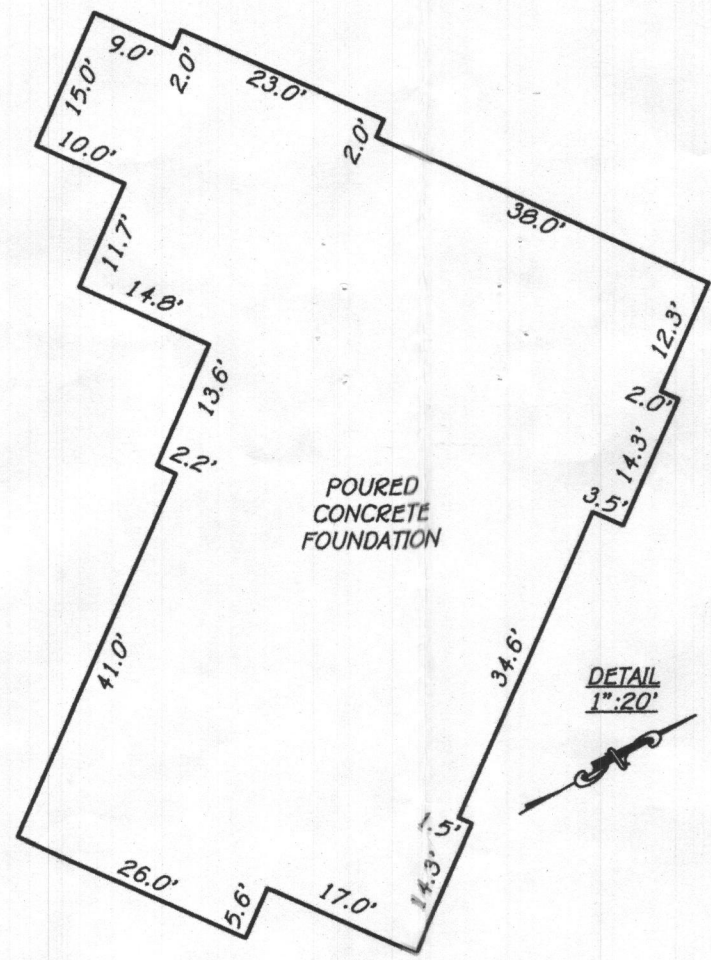
8/11/2023 (P)





**GENERAL NOTES:**

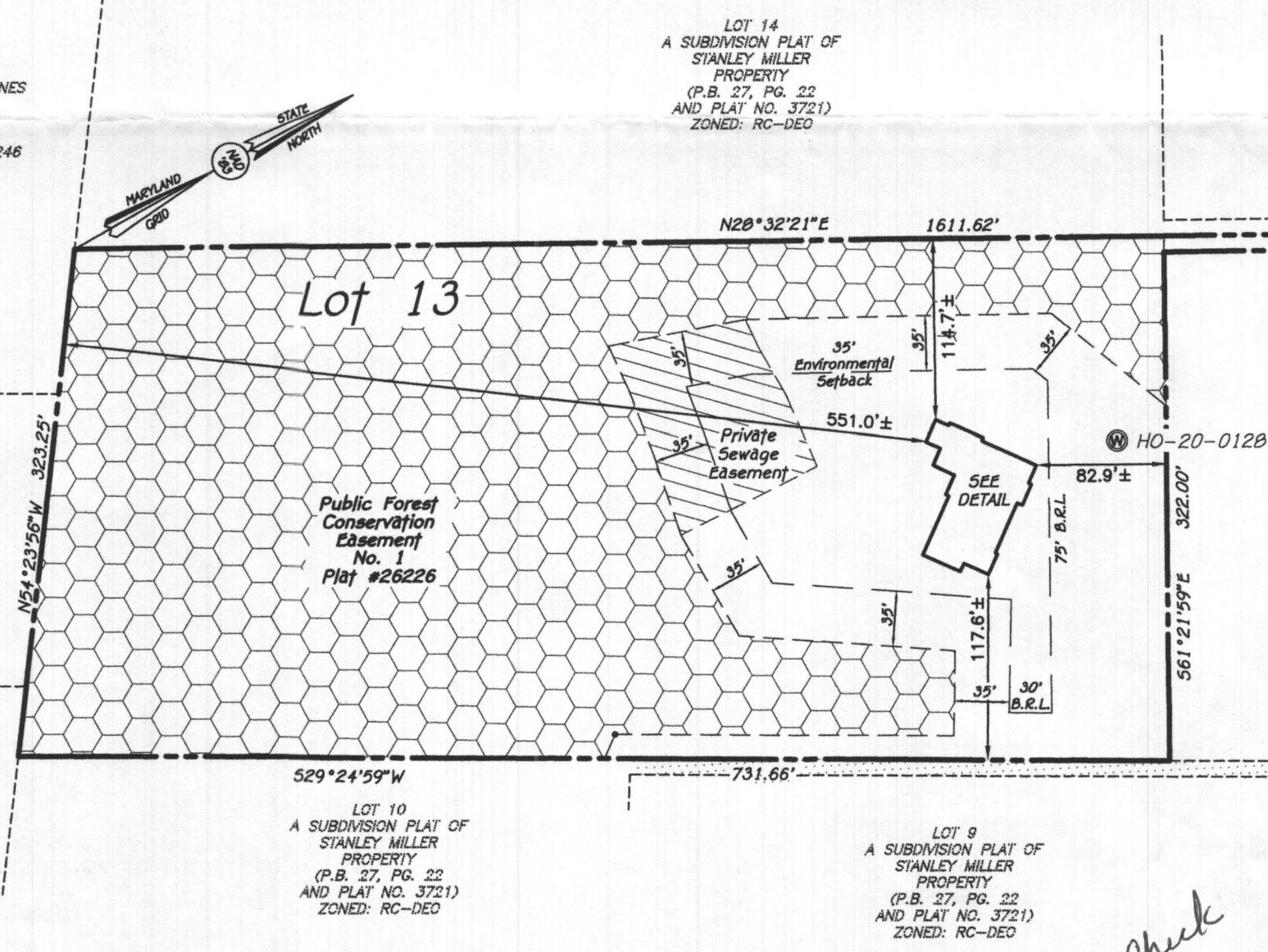
- 1) THIS LOCATION DRAWING IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM INsofar AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR REFINANCING OF THE PROPERTY SHOWN HEREON. UNLESS 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. 24027C00300 EFFECTIVE 11/06/2013.
- 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF PLUS OR MINUS 1'.
- 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-20-0120 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 7/14/2023.
- 7) BUILDING PERMIT # B-22002733



PROPERTY OF MERHLYN PICKETT BARNES AND WILLIAM E. BARNES (L. 10528, F. 628) TAX MAP 7, PARCEL 246 ZONED: RC-DEO

AGRICULTURAL PRESERVATION SUBDIVISION PLAT SECTION 1, LOT 1 PICKETT FARM (PLAT NO. 6615) ZONED: RC-DEO

PROPERTY OF ROBERT B. BELL (L. 17839, F. 498) TAX MAP 7, PARCEL 223 ZONED: RC-DEO



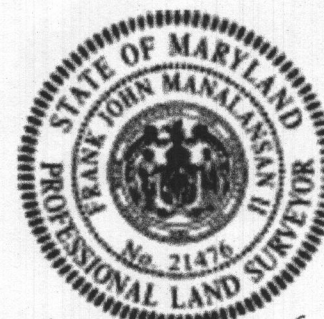
**Legend**

- Existing Private Ingress And Egress Easement For Use-In-Common (L. 771, F. 363)
- Public Forest Conservation Easement (Retention)
- Private Sewage Easement

*Well Check OK DB 7-24-23*

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELLCOTT CITY, MARYLAND 21042  
 (410) 461 - 2895

#16467 FREDERICK ROAD  
 B.R.L. = BUILDING RESTRICTION LINE  
 TOP FOUNDATION ELEVATION = 694.3'



*Frank John Manlove* 5/16/23  
 PROFESSIONAL LAND SURVEYOR DATE  
 LIC. #21476

**HOUSE LOCATION DRAWING**

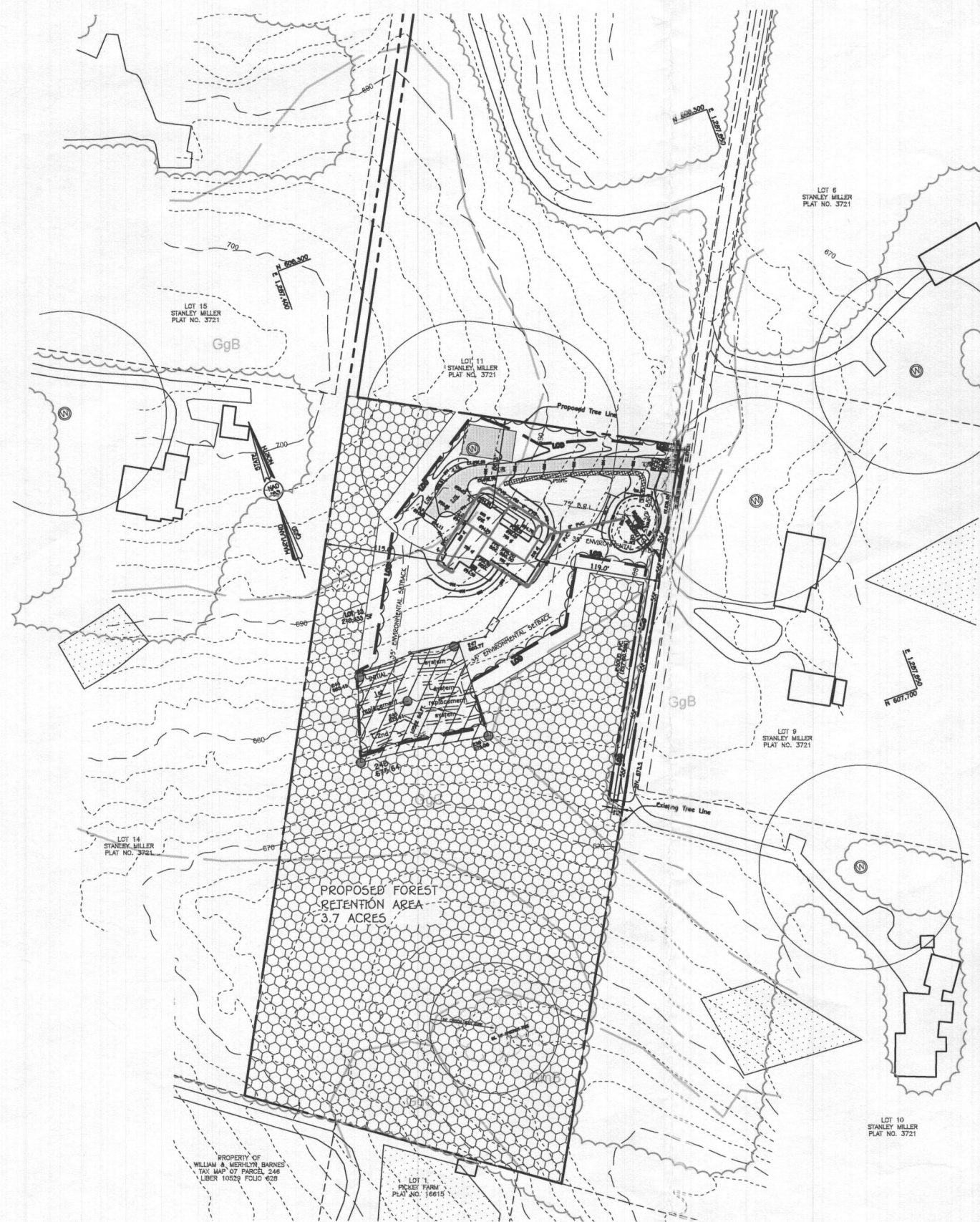
FOUNDATION LOCATION: 4/26/23  
 FINAL LOCATION:  
 BOUNDARY SURVEY:

SCALE: 1"=100'  
 DATE: 4/27/23  
 DRAWN BY: WAS  
 CHECKED BY: FMI  
 PROJECT No.: 12033-6003

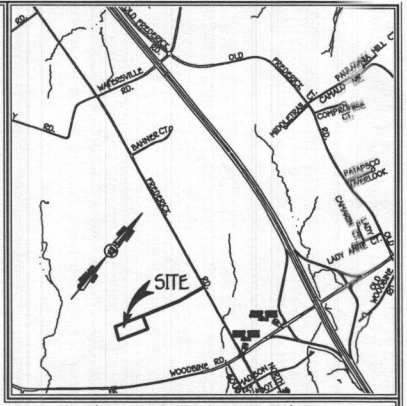
**STANLEY MILLER PROPERTY**

LOT 13  
 ZONED: RC-DEO  
 TAX MAP: 7, GRID: 10, PARCEL: 467  
 FOURTH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND  
 PLAT NOS. 26225 THRU 26226

B22002733



LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
- - -	PROPOSED CONTOUR 2' INTERVAL
---	EXISTING TREES
---	PROPOSED TREE LINE
457.70	SPOT ELEVATION
SSP-50F	SUPER SILT FENCE
---	LIMITS OF DISTURBANCE
---	DEMOTES DRAINAGE DISPOSAL AREA
---	DRAINAGE DITCH
---	SUBMITTED CONSTRUCTION ORDINANCE (COO)



Howard County ADC, Map Map #4691, Grid F7  
**VICINITY MAP**  
 SCALE: 1" = 1200'

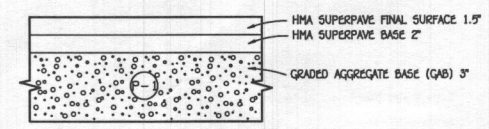
**GENERAL NOTES**

- SUBJECT PROPERTY ZONED: RC-06D
- TOTAL AREA OF PROPERTY: 5.70 AC.
- ONE SINGLE FAMILY HOUSE IS PROPOSED FOR THIS LOT.
- SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT REVIEW.
- LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
- CONTRACTOR/BUILDER TO VERIFY ELEVATIONS IN THE FIELD BEFORE BEGINNING ANY CONSTRUCTION.
- TOPOGRAPHIC INFORMATION IS BASED ON DIGITAL HOWARD COUNTY AERIAL ALONG WITH FIELD RUN TOPOGRAPHY BY FISHER, COLLINS & CARTER, INC., SEPTEMBER, 2021.
- NO UTILITIES CURRENTLY EXIST ON THE PROPERTY.
- DRAINAGE DITCHES SHALL BE CONSTRUCTED AT THE PLOT PLAN.
- STORMWATER MANAGEMENT IS IN ACCORDANCE WITH THE F.D.E. STORM WATER DESIGN MANUAL, VOLUMES 1 & 2, REVISED 2009. WE ARE PROVIDING STORM WATER MANAGEMENT BY THE USE OF 1 MICRO-BIORETENTION (M-6) DEVICE. ALL ARE TO BE MAINTAINED BY THE HOMEOWNER.
- WATER WILL BE PROVIDED BY PRIVATE ON-SITE WELLS. SEWER WILL BE PROVIDED BY PRIVATE SEPTIC SYSTEM.
- SOILS SHOWN HEREON ARE BASED ON NCS 2012 SOIL SURVEY.
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE REPAIRED AT THE DEVELOPER'S EXPENSE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- A DECLARATION OF INTENT HAS BEEN PROVIDED TO COMPLY WITH THE FOREST CONSERVATION REQUIREMENTS.
- REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS SHALL OCCUR AT THE SUBDIVISION PLAN/PLAN AND/OR SITE DEVELOPMENT PLAN STAGES AND/OR RED-LINE REVISION PROCESS.
- THE DESIGN MANUAL WAIVER FOR SECTIONS 8.5, TO ALLOW A USE-IN-COMMON DRIVEWAY WIDTH TO BE REDUCED FROM 16' TO 14' WAS APPROVED UNDER THE CONDITION OF INSTALLING A TURN AROUND AREA PER THE DEPARTMENT OF FIRE AND RESCUE SERVICES DEPICTION ON THE ATTACHED EXHIBIT THAT IF ANY USE-IN-COMMON ACCESS EASEMENT AGREEMENT DOES NOT INCLUDE LOT 13, THEN IT BE AMENDED TO INCLUDE LOT 13, AND IF NO USE-IN-COMMON AGREEMENT EXISTS THEN ONE IS EXECUTED TO INCLUDE LOT 13.
- APPROVAL OF THIS ECP DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED SUBDIVISION PLAN/PLAN AND/OR SITE DEVELOPMENT PLAN AND/OR RED-LINE REVISION PLAN. REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS SHALL OCCUR AT THE SUBDIVISION PLAN/PLAN AND/OR SITE DEVELOPMENT PLAN STAGES AND/OR RED-LINE REVISION PROCESS. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED REVIEW COMMENTS (INCLUDING COMMENTS THAT MAY ALTER THE OVERALL SITE DESIGN) AS THIS PROJECT PROGRESSES THROUGH THE PLAN REVIEW PROCESS.

Approved Septic System Plan  
 Howard County Health Department  
*D. Bernard*  
 Signature 7-25-22  
 Date

**DAILY STABILIZATION NOTE**

ALL DISTURBED AREAS NOT DIRECTED TO A SEDIMENT CONTROL DEVICE SHALL BE STABILIZED AT THE END OF EACH WORKDAY. THE CONTRACTOR SHALL NOT DISTURB AN AREA GREATER THAN THAT WHICH CAN BE STABILIZED AT THE END OF EACH WORKDAY IN SUCH AREAS.

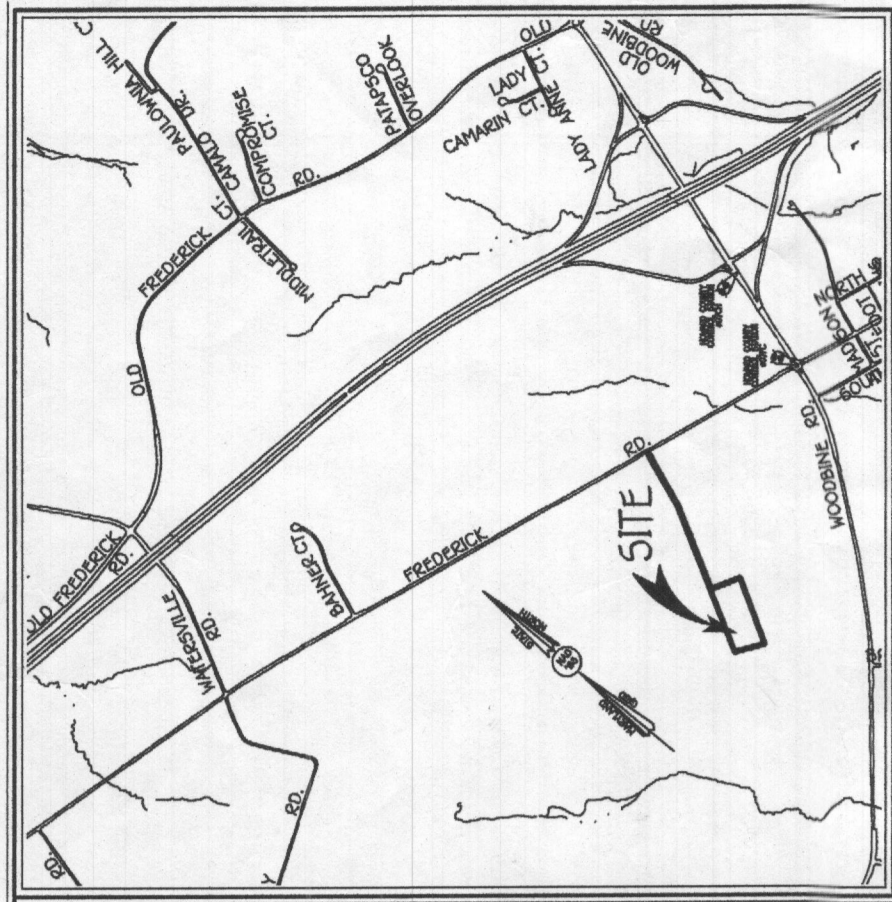


**P-1 PAVING SECTION**  
 NOT TO SCALE

**PLOT PLAN**  
**Stanley Miller Property**  
 SECTION ONE  
 LOT 13  
 16467 Frederick Road  
 TAX MAP NO.: 07 PARCEL NO.: 467 GRID NO.: 10  
 FOURTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND  
 SCALE: 1"=60' DATE: JUNE 3, 2022  
 SHEET 1 OF 1

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 SALTSTONE NATIONAL PIKE  
 ELKLOFT CITY, MARYLAND 21042  
 (410) 461-2000

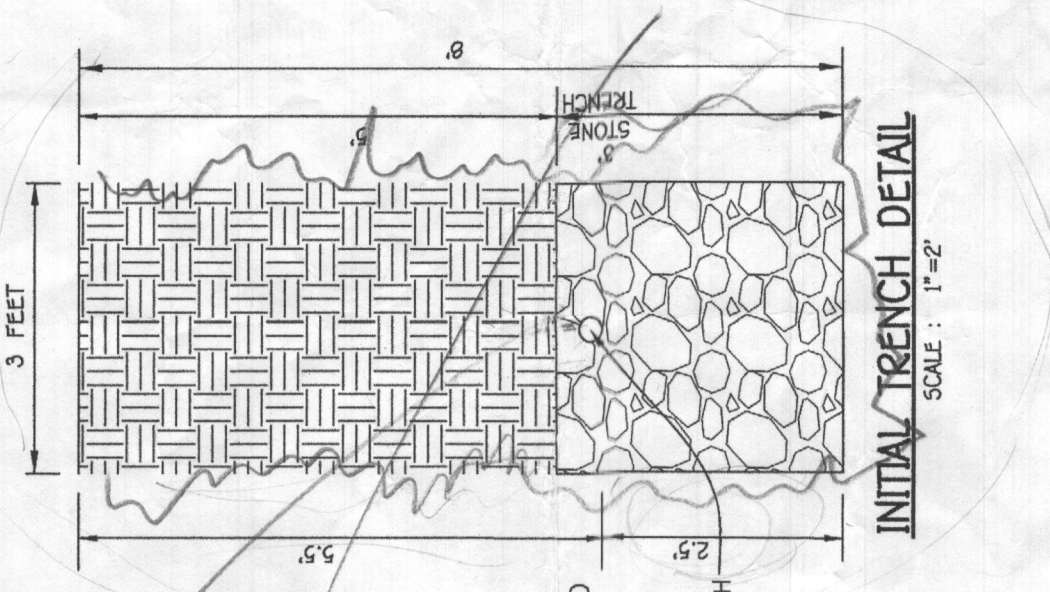
**OWNER**  
 JASON J SHAHID  
 DEBORAH D TROTTER  
 5929 NORTHERN COURT  
 ELK RIDGE, MD 21075  
 410-493-1782



**VICINITY MAP**  
SCALE: 1" = 1200'

TRENCH DATA:

TRENCH 1:	EX. GROUND ABOVE = 683.77
	INV. IN = 678.27
TRENCH 2:	EX. GROUND ABOVE = 683.77
	INV. IN = 678.27
TRENCH 3:	EX. GROUND ABOVE = 682.3
	INV. IN = 676.8
TRENCH 4:	EX. GROUND ABOVE = 682.3
	INV. IN = 676.8



**INITIAL SYSTEM**  
SEWAGE DISPOSAL SYSTEM DATA - DESIGN FOR 5 BEDROOMS  
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD  
APPLICATION RATE = 0.8  
EFFECTIVE SIDEWALL BEGINS AT 5.5 FEET  
TRENCH DEPTH (W) = 3 FEET  
TRENCH WIDTH (W) = 3 FEET  
SF OF DRAINFIELD (D) = 750 GPD / 0.8 = 937.5 SF  
COEFFICIENT OF REDUCTION OF TRENCH LENGTH =  $(W+2)/(W+1+2D) = (3+2)/(3+1+(2*3)) = 0.556$   
TRENCH LENGTH = 312.50 SF X 0.556 = 173.61 FEET  
(USE 4 TRENCHES AT 43.40 L.F.)  
TRENCH SPACING = 20+W = ((2\*2.5) + 3) = 8' USE 10'

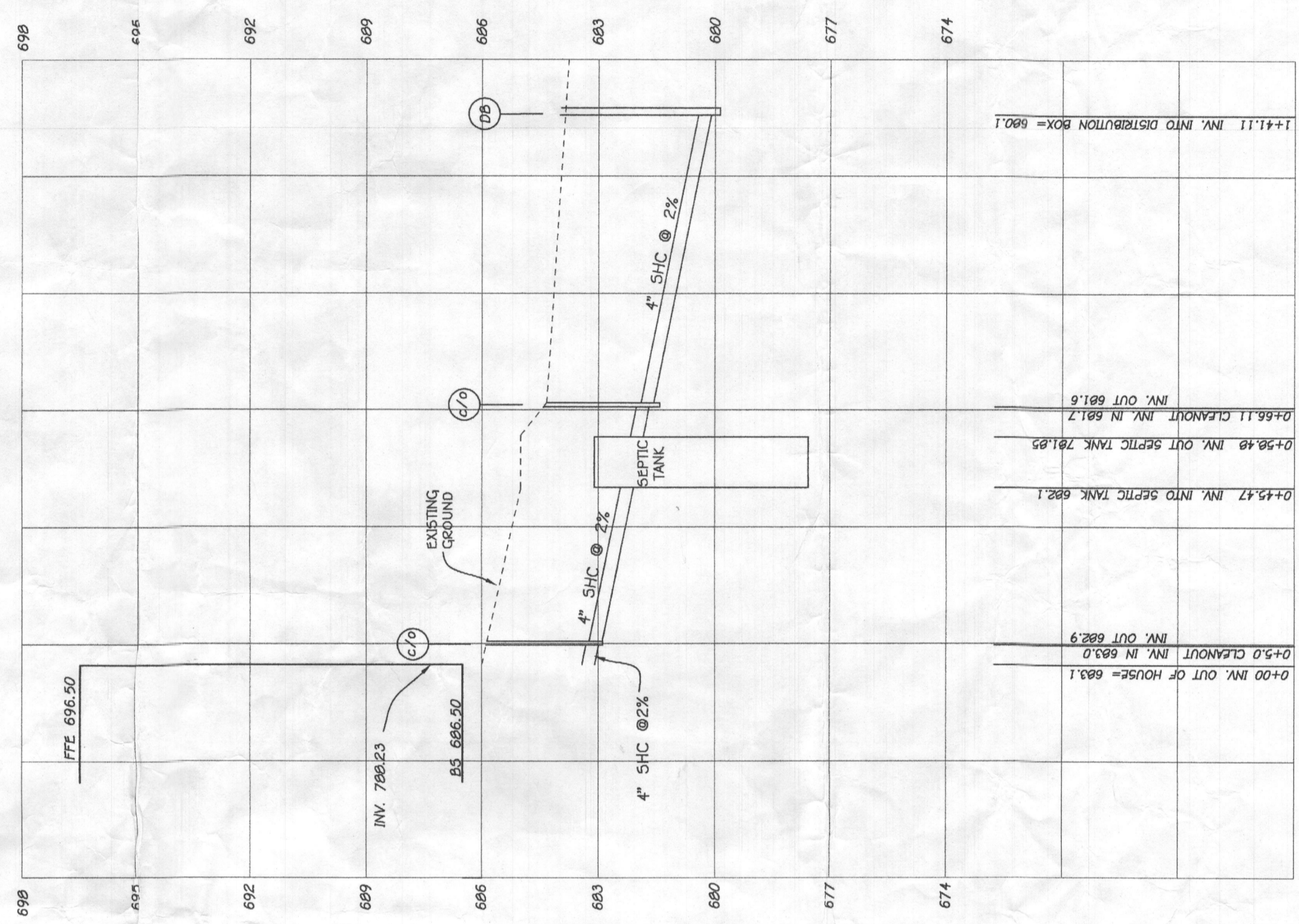
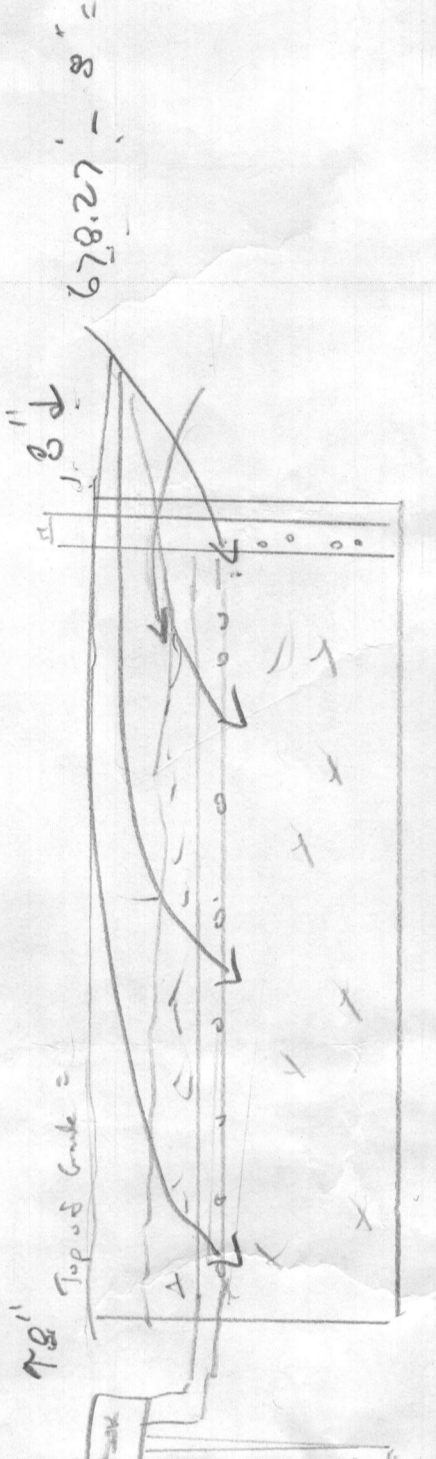
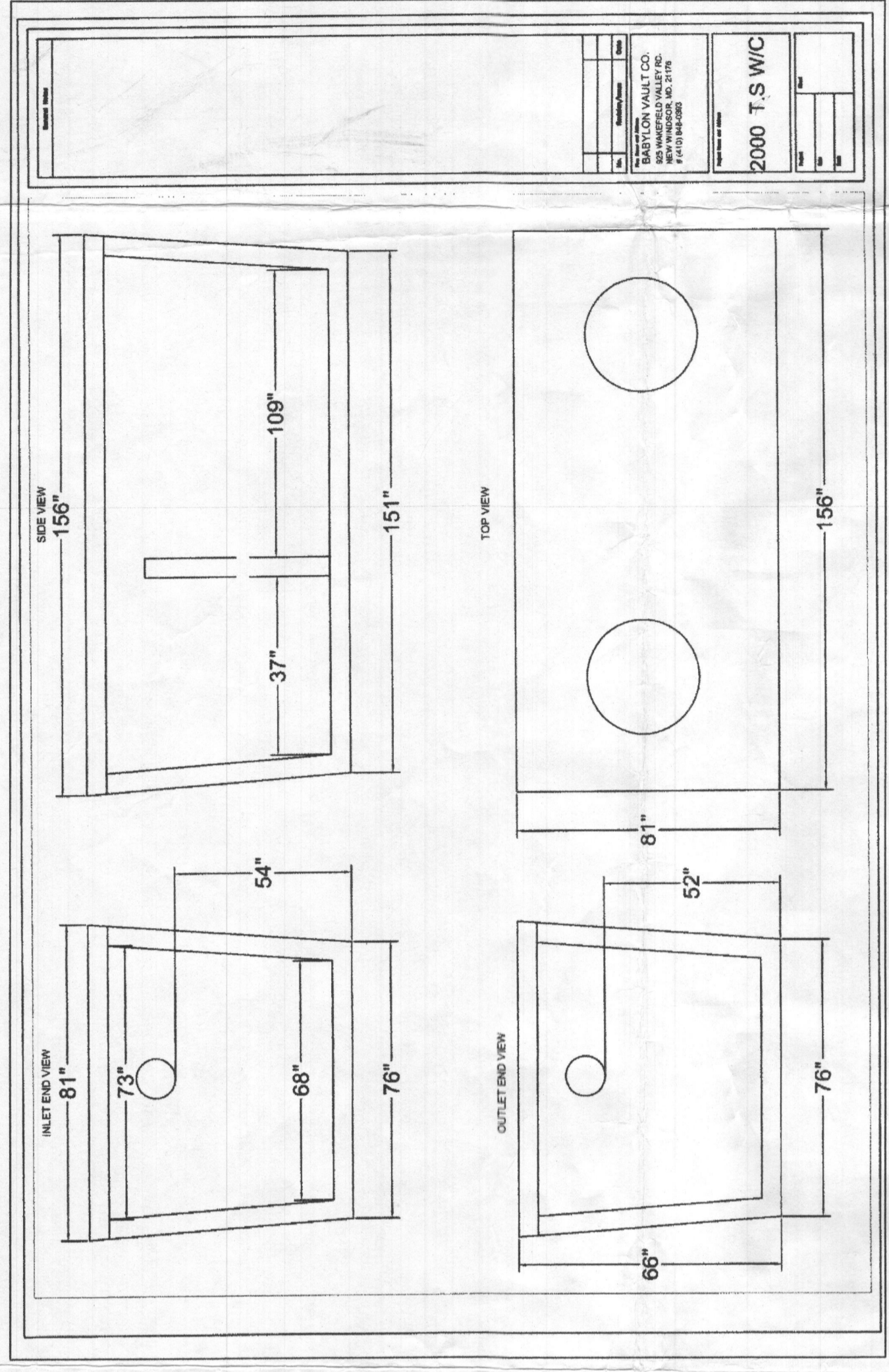
**1ST REPLACEMENT SYSTEM**  
SEWAGE DISPOSAL SYSTEM DATA - DESIGN FOR 5 BEDROOMS  
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD  
APPLICATION RATE = 0.8  
EFFECTIVE SIDEWALL BEGINS AT 5.5 FEET  
TRENCH DEPTH (W) = 3 FEET  
TRENCH WIDTH (W) = 3 FEET  
SF OF DRAINFIELD (D) = 750 GPD / 0.8 = 937.5 SF  
COEFFICIENT OF REDUCTION OF TRENCH LENGTH =  $(W+2)/(W+1+2D) = (3+2)/(3+1+(2*3)) = 0.556$   
TRENCH LENGTH = 312.50 SF X 0.556 = 173.61 FEET  
(USE 4 TRENCHES AT 43.40 L.F.)  
TRENCH SPACING = 20+W = ((2\*2.5) + 3) = 8' USE 10'

**2ND REPLACEMENT SYSTEM**  
SEWAGE DISPOSAL SYSTEM DATA - DESIGN FOR 5 BEDROOMS  
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD  
APPLICATION RATE = 0.8  
EFFECTIVE SIDEWALL BEGINS AT 5.5 FEET  
TRENCH DEPTH (W) = 3 FEET  
TRENCH WIDTH (W) = 3 FEET  
SF OF DRAINFIELD (D) = 750 GPD / 0.8 = 937.5 SF  
COEFFICIENT OF REDUCTION OF TRENCH LENGTH =  $(W+2)/(W+1+2D) = (3+2)/(3+1+(2*3)) = 0.556$   
TRENCH LENGTH = 312.50 SF X 0.556 = 173.61 FEET  
(USE 4 TRENCHES AT 43.40 L.F.)  
TRENCH SPACING = 20+W = ((2\*2.5) + 3) = 8' USE 10'

Approved Septic System Plan  
Howard County Health Department  
Signature: *[Signature]*  
Date: 4/23/22

**SEPTIC SYSTEM  
INSTALLATION SITE PLAN**  
SECTION ONE  
**Stanley Miller Property**  
LOT 13

16467 Frederick Rd  
TAX MAP NO.: 07 PARCEL NO.: 467 GRID NO.: 10  
FOURTH ELECTORAL DISTRICT, HOWARD COUNTY, MARYLAND  
SCALE: 1" = 60'  
DATE: MARCH 29, 2021  
SHEET 1 OF 1



**SEPTIC PROFILE**  
SCALE: 1" = 30'



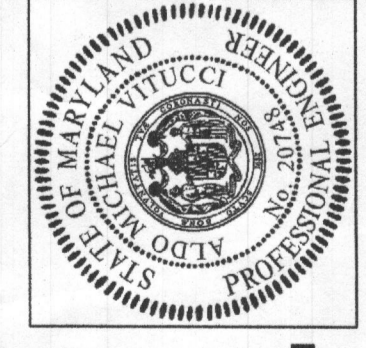
- FFE 696.50
- BSE 686.50
- INV. OUT OF HOUSE = 683.1
- PROP. GROUND AT CLEANOUT #1 = 686
- INV. INTO CLEANOUT = 683.0
- INV. OUT OF CLEANOUT = 682.9
- EX. GROUND AT SEPTIC TANK = 684
- TOP OF SEPTIC TANK = 683.1
- INV. INTO SEPTIC TANK = 682.1
- PROP. GROUND AT CLEANOUT #2 = 683.77
- INV. INTO CLEANOUT = 681.7
- INV. OUT OF CLEANOUT = 681.6
- EX. GROUND AT DISTRIBUTION BOX = 380.1
- INV. INTO DISTRIBUTION BOX = 380.1
- INV. OUT OF DISTRIBUTION BOX = 680

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 EXPOSED COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE PERMITS.
3. THE WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 4. 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.

**PROFESSIONAL CERTIFICATION**

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AS A LICENSED PROFESSIONAL ENGINEER UNDER THE JURISDICTION OF THE BOARD OF PROFESSIONAL ENGINEERS OF THE STATE OF MARYLAND. LICENSE NO. 20746, EXPIRATION DATE: 02/22/2023.

*[Signature]*  
DATE: 4/23/22  
Signature of Professional Engineer



**FISHER, COLLINS & CARTELL, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
1400 N. W. 20th St., Suite 200, Fort Lauderdale, FL 33304  
TEL: 954.575.1100 FAX: 954.575.1101