

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

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

RECEIPT DATE: 10-11-22 **ONSITE SEWAGE DISPOSAL SYSTEM** P 572196

APPROVAL DATE: 5/15/2023 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 2248 HOWARD ROAD, DAYTON, MD 21036

SUBDIVISION: STUDDARD PROPERTY LOT: 2 TAX ID: 05-593797

CONTRACTOR: Fogles Septic Clean Tnc EMAIL: _____

CONTRACTOR ADDRESS: 580 Obercht Rd, Sykesville, MD 21784 PHONE: 410-795-5670

PROPERTY OWNER: ALFRED and JANE EZEKWESILI EMAIL: _____

OWNER ADDRESS: 2627 TOBY LANE, ELLICOTT CITY, MD 21042 PHONE: _____

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: MAYER BROS., INC.

PUMP MODEL: n.a. PUMP SIZE n.a. PUMP TANK CAPACITY: n.a.

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>168</u>	INLET DEPTH: <u>3.0</u>
	TRENCH WIDTH: <u>2</u>	MAXIMUM BOTTOM DEPTH: <u>6.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3.0</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	INSTALL AT LEAST TWO CLEANOUTS IN SHC.	

ISSUED BY: R BRICKER ISSUE DATE: 10-21-22 EXPIRATION DATE: 10-11-23

- 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 n.a.
- 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

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
2'	3'	6"
NUMBER OF TRENCHES		4
TOTAL LENGTH		168' F
ABSORPTION AREA		504/SF + 3' SIDE WALL
DISTRIBUTION BOX LEVEL		SPEED
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 2'
 BAFFLES YES
 BAFFLE FILTER -
 MANHOLE LOC FRONT/BACK
 6" PORT LOC -
 WATERTIGHT TEST -
 SLOTTED YES
 DATE ON LID 09/14/2022

PUMP/SEPTIC TANK LEVEL

MANUFACTURER _____
 CAPACITY _____ GAL
 SEAM LOC _____
 TANK LID DEPTH _____
 BAFFLES _____
 BAFFLE FILTER _____
 MANHOLE LOC _____
 6" PORT LOC _____
 WATERTIGHT TEST _____
 SLOTTED _____
 DATE ON LID _____

ROAD NAME

PRE-CONSTRUCTION:

11/04/2022 LAID OUT 4X 42' TRENCHES. *(Signature)*

INSTALLATION:

11/09/2022 SL, TANK D BOX AND TRENCHES COMPLETE; D BOX LEVELED W/ SPEED LEVELS. *(Signature)*

* NEED SHC * ϕ @ 75' RUN

See supplemental pictures from site

FINAL INSPECTOR

Jack Libovst

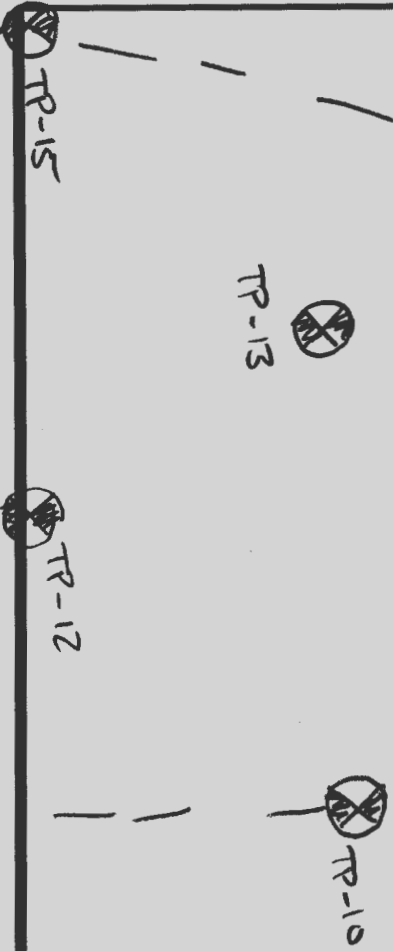
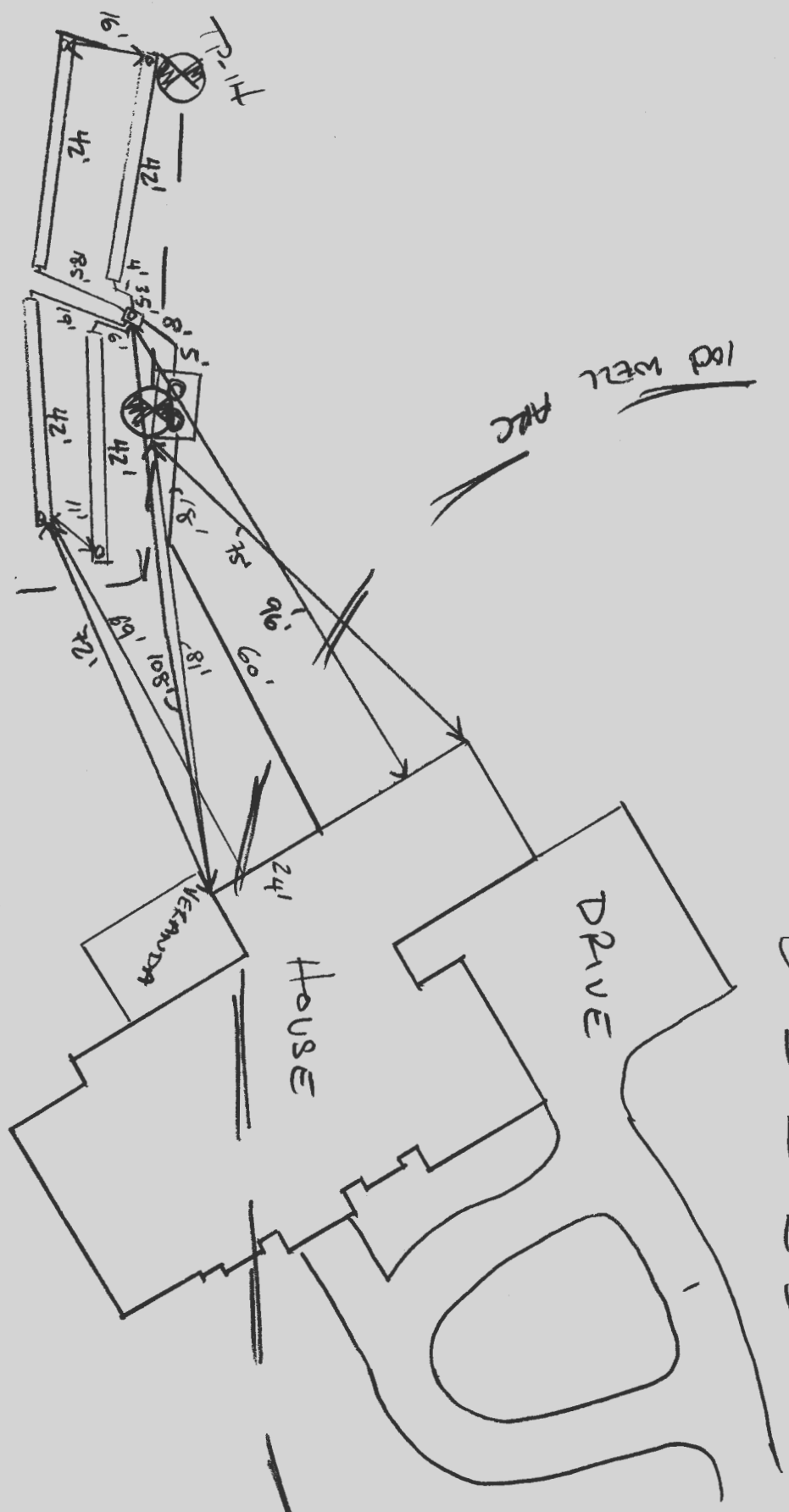
DATE OF APPROVAL

5/15/23

NOT TO SCALE
1/30

HO-95-7202

100' WELL PERC



GENERAL NOTES:

1. THE EXISTING TOPOGRAPHY SHOWN HEREON IS TAKEN FROM HOWARD COUNTY GIS, AND IS VERIFIED TO ACCURATELY REPRESENT THE SUBJECT PROPERTY.
2. ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
3. EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN USING ALL REASONABLE EFFORTS.
4. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
5. 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.
6. THE MAXIMUM EARTH COVER OVER THE TANK IS THREE FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.

SYSTEM CALCULATIONS:

INITIAL SYSTEM:

6 BEDROOMS AT 900gpd / 1.2 ABSORPTION RATE = 750 SQ. FT.
 750 SQ. FT. / 2 (TRENCH WIDTH) x 44 (SIDEWALL REDUCTION) = 165 LINEAR FEET
 168 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE INITIAL SYSTEM.
 (4 TRENCHES OF 42 FEET IN LENGTH)

FIRST REPLACEMENT SYSTEM:

6 BEDROOMS AT 900gpd / 1.2 ABSORPTION RATE = 750 SQ. FT.
 750 SQ. FT. / 3 (TRENCH WIDTH) x 42 (SIDEWALL REDUCTION) = 105 LINEAR FEET
 106 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE FIRST REPLACEMENT SYSTEM.
 (2 TRENCHES OF 53 FEET IN LENGTH)

SECOND REPLACEMENT SYSTEM:

6 BEDROOMS AT 900gpd / 1.2 ABSORPTION RATE = 750 SQ. FT.
 750 SQ. FT. / 3 (TRENCH WIDTH) x 38 (SIDEWALL REDUCTION) = 95 LINEAR FEET
 96 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE SECOND REPLACEMENT SYSTEM.
 (2 TRENCHES OF 48 FEET IN LENGTH)

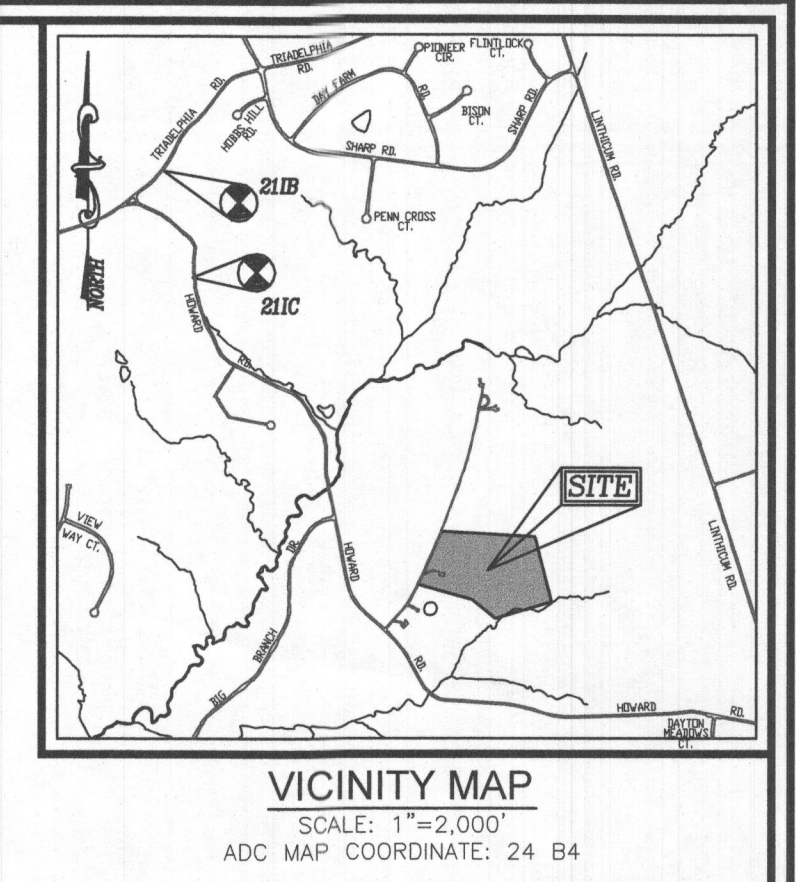
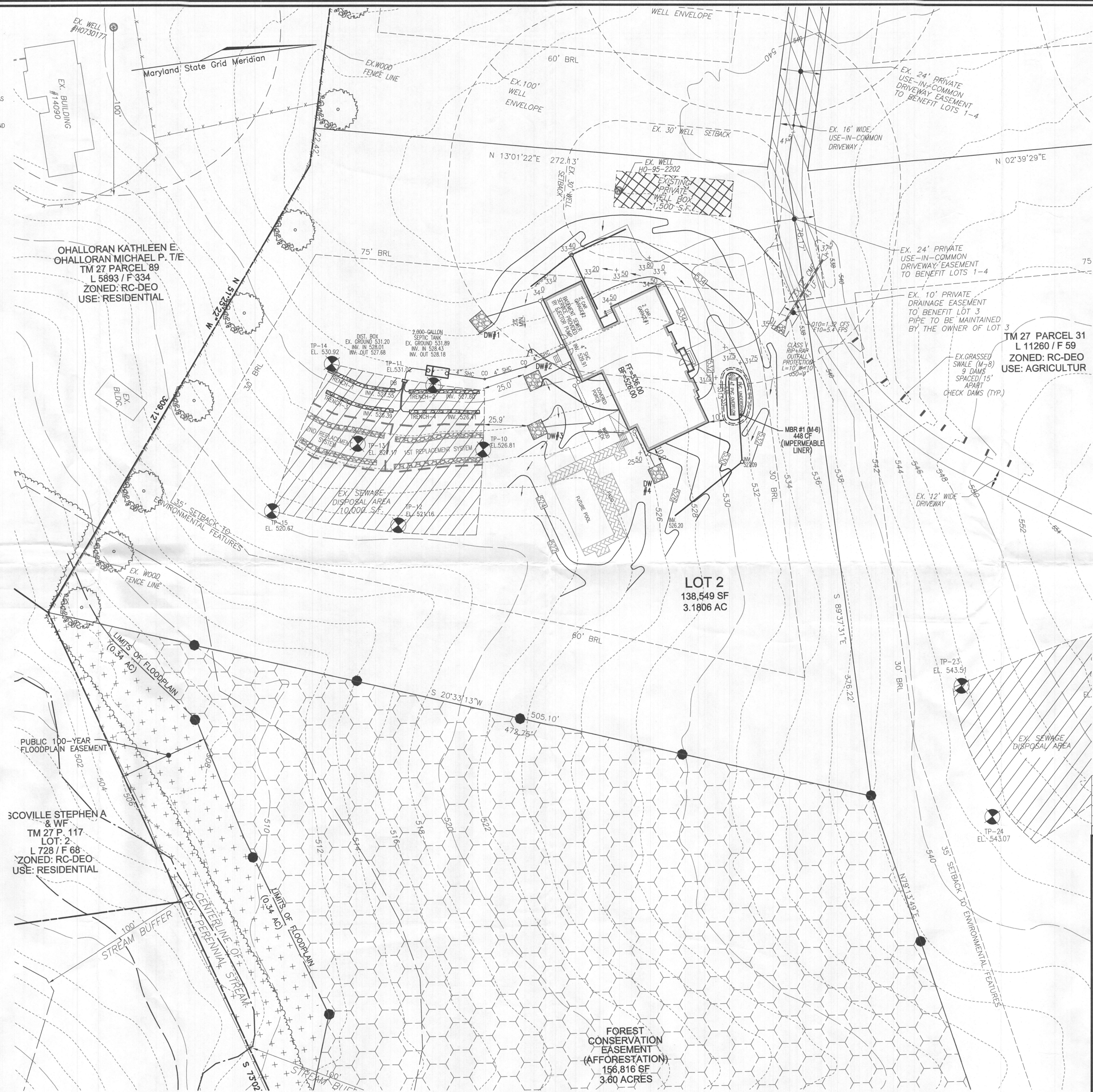
INITIAL SYSTEM TRENCH INFO

TRENCH	TRENCH LENGTH	INTO	INFO	BOTTOM	OF	EXISTING
1	42'	527.55	524.55	530.55		530.55
2	42'	527.60	524.60	530.60		530.60
3	42'	526.39	523.39	529.39		529.39
4	42'	526.41	523.41	529.41		529.41

WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN ON THIS PLAN (H0-95-2202) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN

THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS 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 AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.



BENCHMARKS
 HOWARD COUNTY BENCHMARK 211B (CONC. MON.)
 N 579255.46 E 1308799.16
 *LOCATED 4.3' BACK FROM THE EDGE OF PAVEMENT, NORTHEAST OF THE INTERSECTION OF HOWARD ROAD AND TRADDELPHIA ROAD.
 HOWARD COUNTY BENCHMARK 211C (CONC. MON.)
 N 578150.48 E 1309107.30
 *LOCATED 2.2' BACK FROM EDGE OF PAVEMENT, SOUTH SIDE OF HOWARD ROAD.

LEGEND:

	PROPERTY LINE
	ADJACENT PROPERTY LINE
	EXISTING EDGE OF PAVING
	EXISTING STREAM
	EXISTING STREAM BUFFER
	EXISTING TREELINE
	PUBLIC 100-YEAR FLOODPLAIN EASEMENT
	PUBLIC FOREST CONSERVATION EASEMENT (AFFORESTATION)
	EXISTING METAL FENCE
	EXISTING 10' CONTOUR
	EXISTING 2' CONTOUR
	PROPOSED 10' CONTOUR
	PROPOSED 2' CONTOUR
	APPROVED SEWAGE DISPOSAL AREA
	APPROVED WELL AREA
	EXISTING WELL LOCATION
	PASSED PERC. TEST

Approved Septic System Plan
 Howard County Health Department
 2000-gallon septic tank
 to gravity drain field
 for 6-bedroom residence
 Jonathan Studdard
 12/30/2021
 Signature Date
OWNER/DEVELOPER
 JONATHAN STUDDARD
 AMY B. STUDDARD
 14118 HOWARD ROAD
 DAYTON, MD, 21036
 443-364-8075

NO.	REVISION	DATE

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
EZEKWESILI RESIDENCE
 LOT 2
 14128 HOWARD ROAD
 DAYTON, MD 21036
 TAX MAP 27 BLOCK 6
 5TH ELECTION DISTRICT
 DPZ REF'S: ECP-11-005, WP-10-016
 PARCEL 31, ZONED RC-DEO
 HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING

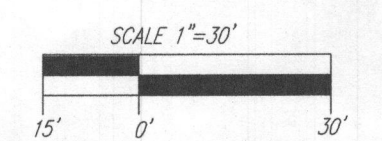
TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

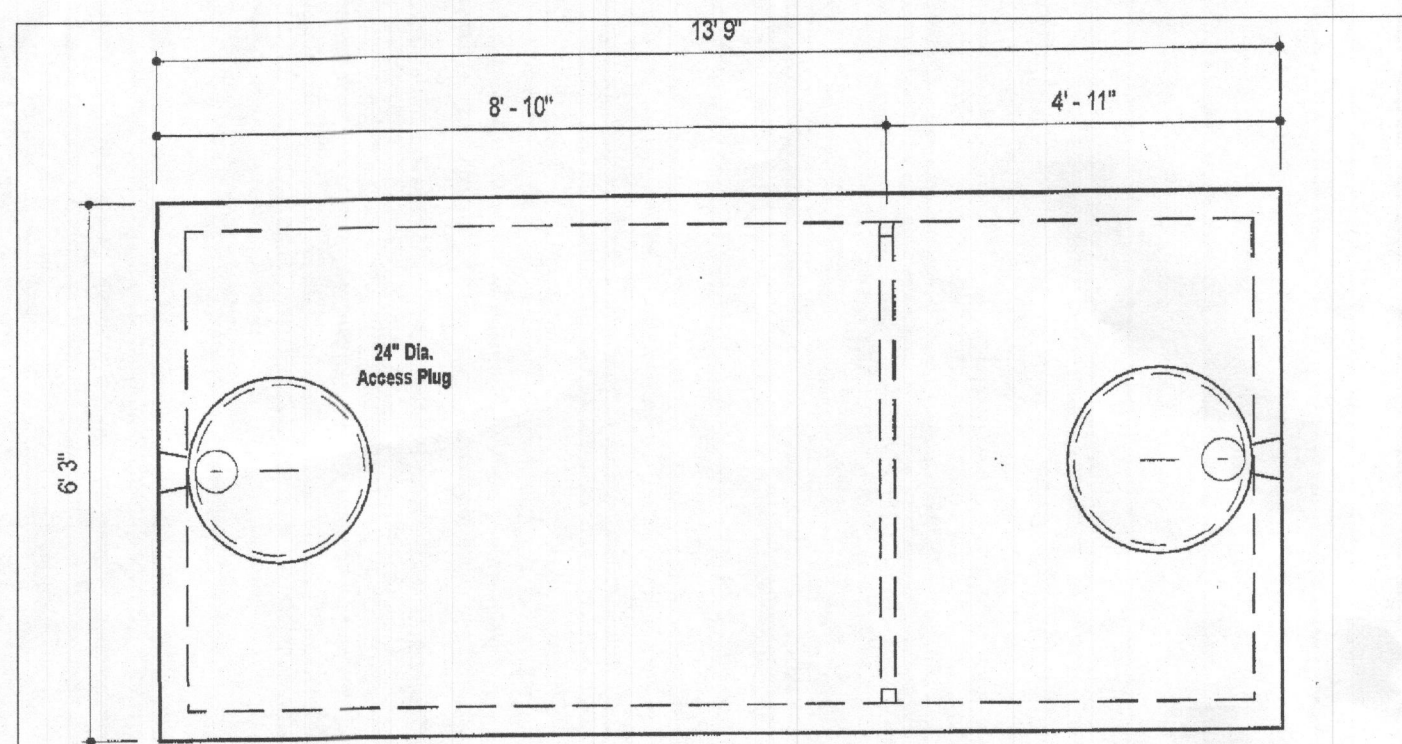
DESIGN BY: RHY
 DRAWN BY: KG
 CHECKED BY: RHY
 DATE: DECEMBER 2021
 SCALE: AS SHOWN
 W.O. NO.: 08-50

PROFESSIONAL CERTIFICATE
 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. 21438 EXPIRATION DATE 12-16-2022

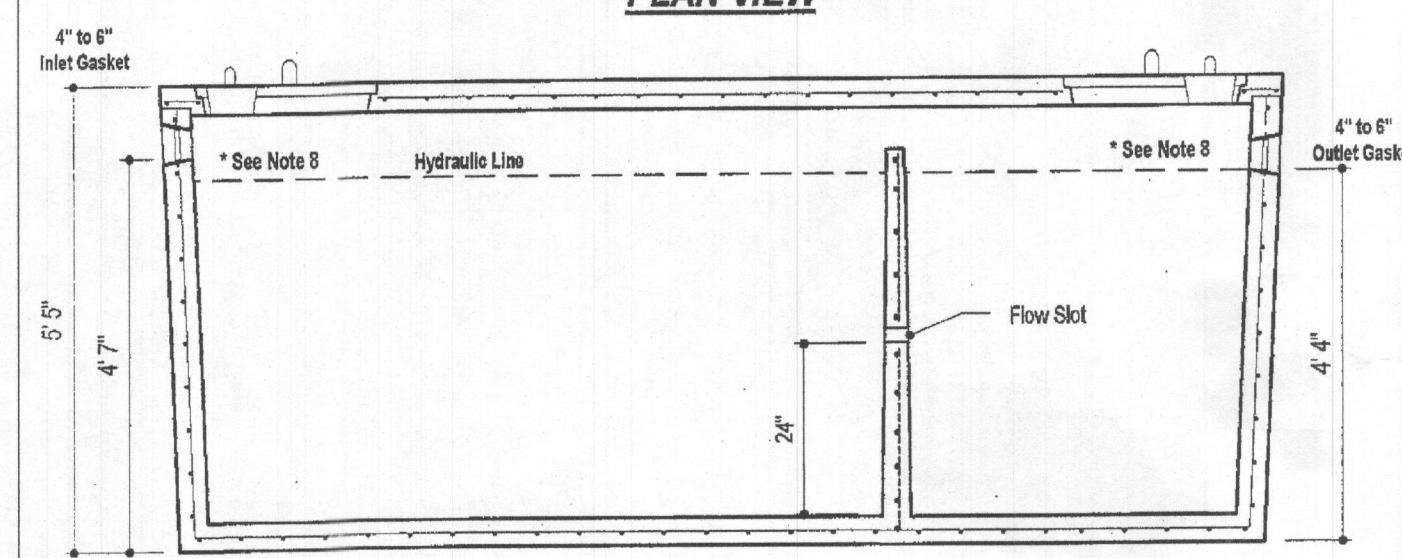
1 SHEET OF 2

OSDS PLAN VIEW
 SCALE: 1"=30'





PLAN VIEW

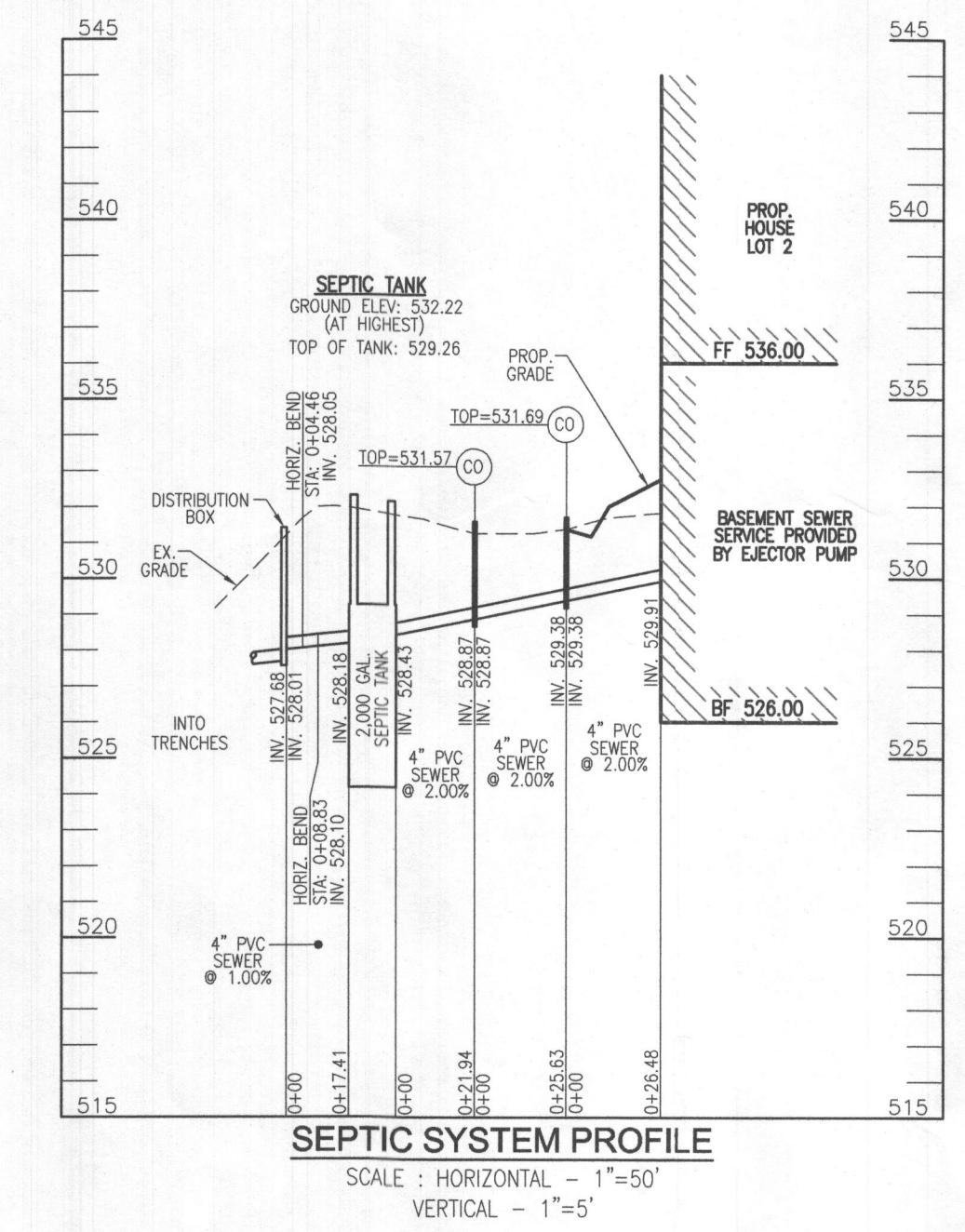


SECTION A-A

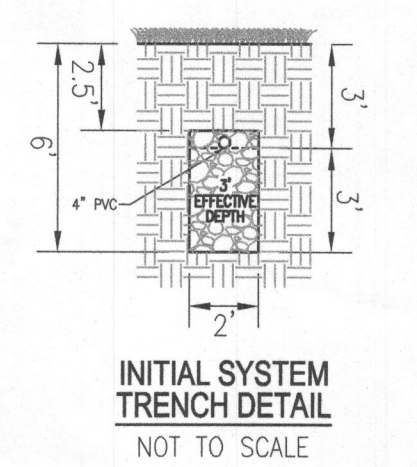
- DESIGN DATA & GENERAL NOTES**
- (1) Concrete strength Fc=4,000 p.s.i. @ 28 days. Density = 150 pcf.
 - (2) Cement - Portland Type III per ASTM C-150-82.
 - (3) Admixtures & plasticizers per ASTM C-260-86 & C-494-82.
 - (4) Reinforcing per ASTM A618. Min. 1/4" cover.
 - (5) Top slab sealed with butyl rope mastic.
 - (6) 4" wall, 4" base, & 6" top thickness.
 - (7) Min. 3" of cover.
 - (8) Depending on use of tank, Inlet & Outlet baffles may be required by code.

MBI
 Masonry Block Inc.
 6264 Race Road
 Elkridge, Maryland 21075
 Tel: 410.796.6584
 Fax: 410.796.1438
 www.masonblock.com

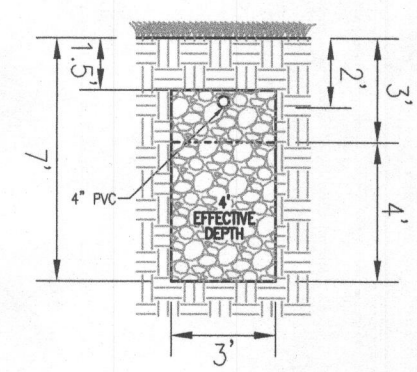
**2,000 GALLON SEPTIC TANK
 2-Compartment**
 Stock Item [Approx. 19,900 lbs]



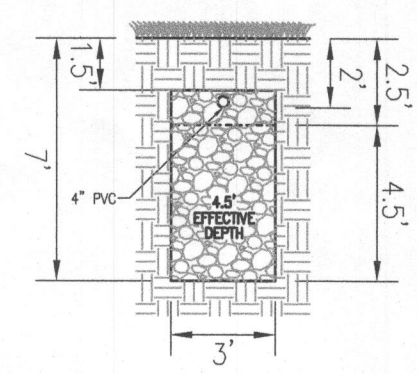
SEPTIC SYSTEM PROFILE
 SCALE: HORIZONTAL - 1"=50'
 VERTICAL - 1"=5'



INITIAL SYSTEM TRENCH DETAIL
 NOT TO SCALE



FIRST REPLACEMENT SYSTEM TRENCH DETAIL
 NOT TO SCALE



SECOND REPLACEMENT SYSTEM TRENCH DETAIL
 NOT TO SCALE

Plan
 2000-gallon 2-compartment
 to Gravity Drainfield
 for 6-bed room residence
 Signature: *R. Studdard* Date: 12/30/2021
 OWNER/DEVELOPER
 JONATHAN STUDDARD
 AMY B. STUDDARD
 14118 HOWARD ROAD
 DAYTON, MD, 21036
 443-364-8075

NO.	REVISION	DATE

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

EZEKWESILI RESIDENCE
 LOT 2
 14128 HOWARD ROAD
 DAYTON, MD 21036

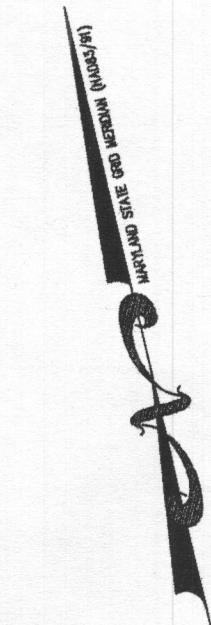
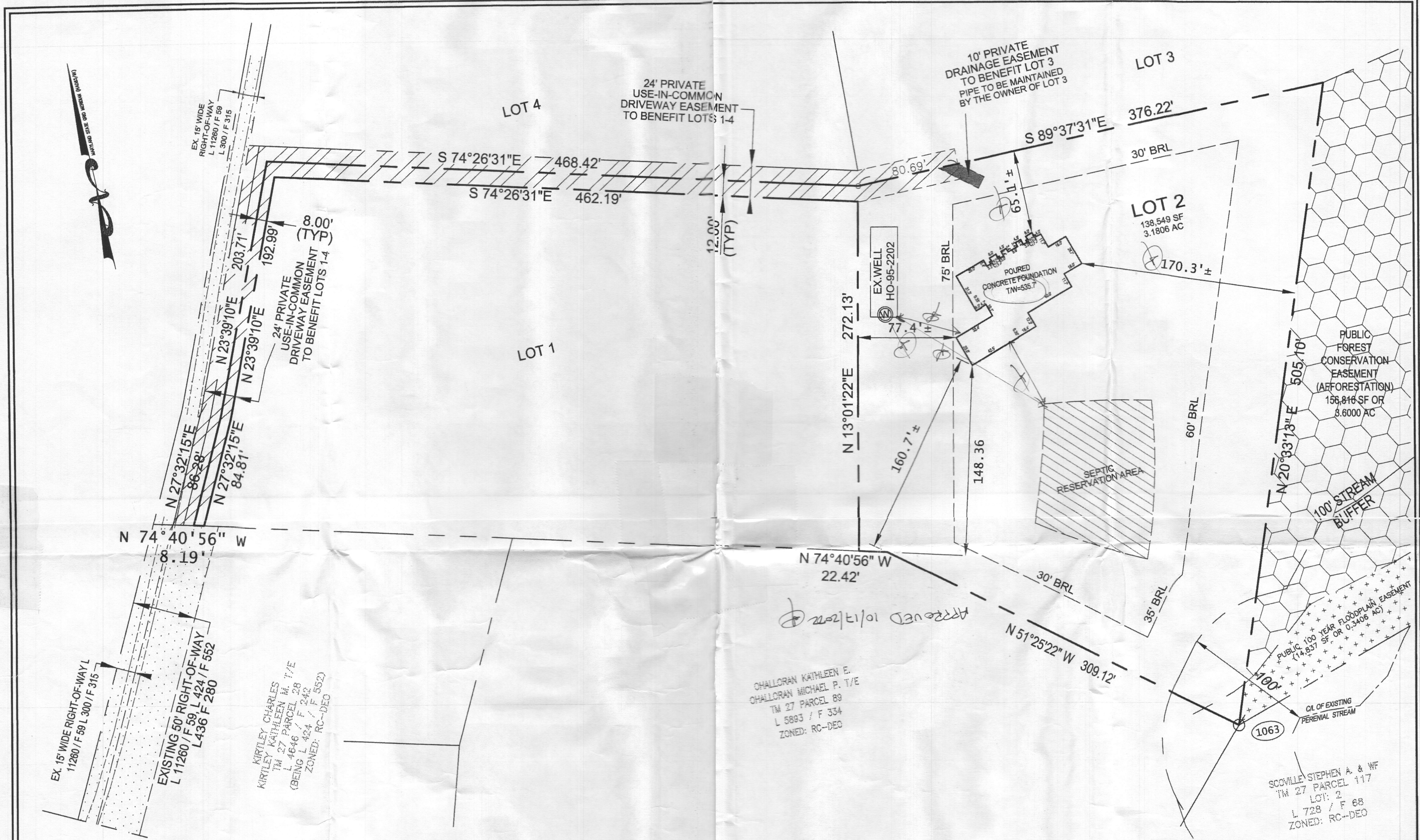
TAX MAP 27 BLOCK 6
 5TH ELECTION DISTRICT
 DPZ REF'S: ECP-11-005, WP-10-016

PARCEL 31, ZONED RC-DEO
 HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
 +
TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7656 F: 410.461.8961 www.timmons.com

	DESIGN BY: RHV	PROFESSIONAL CERTIFICATE 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. 21438 EXPIRATION DATE: 12-16-2022
	DRAWN BY: KG	
	CHECKED BY: RHV	
	DATE: DECEMBER 2021	
	SCALE: AS SHOWN	
W.O. NO.: 08-50	2 OF 2	

ROBERT S. VOGEL, PE No. 16193



EX. 15' WIDE RIGHT-OF-WAY L 11280 / F 59 L 300 / F 315

EXISTING 50' RIGHT-OF-WAY L 11260 / F 59 L 424 / F 552 L 436 F 280

KIRLEY CHARLES
TM 27 PARCEL 28
L 4646 / F 242
ZONED: RC-DEC

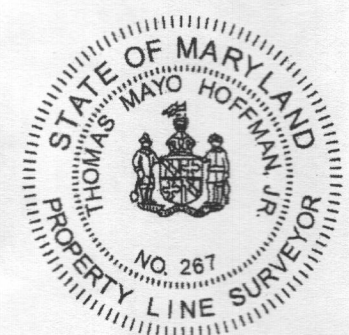
CHALLORAN KATHLEEN E.
CHALLORAN MICHAEL P. T/E
TM 27 PARCEL 89
L 5893 / F 334
ZONED: RC-DEC

SCOVILLE STEPHEN A. & WF
TM 27 PARCEL 117
LOT: 2
L 728 / F 68
ZONED: RC-DEC

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THAT THE IMPROVEMENTS ARE LOCATED AS SHOWN AND THAT THERE ARE NO ENCROACHMENTS EXCEPT AS SHOWN, THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND.

Thomas M. Hoffman Jr.
THOMAS M. HOFFMAN JR.,
PROPERTY LINE SURVEYOR
LICENSE NO. 267
EXP. DATE: JULY 28, 2024

10/4/22
DATE



THIS WALL CHECK DRAWING CONTAINS A HORIZONTAL TOLERANCE IN ACCURACY OF 0.1' AND A VERTICAL TOLERANCE IN ACCURACY OF 0.2'

VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELICOTT CITY, MD 21043
P: 410-461-7666 F: 410-461-8961 www.timmons.com

WALL CHECK DRAWING	
14128 HOWARD ROAD	
LOT 2	
STUDDARD PROPERTY	
PLAT NO. 21838	
TAX MAP 27, GRID 6, PARCEL 31	
FIFTH ELECTION DISTRICT	HOWARD COUNTY, MARYLAND
SCALE: 1" = 50'	MARCH 4, 2022
GRAPHIC SCALE	
1 INCH = 50 FEET	
DRAWN BY: B.D.A.	W.O. NO.: 08-50.00
CHECKED BY: T.M.H.	
SHEET	
1 of 1	