

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	PT DATE: STILL ONSITE SEWAGE DISPOSAL	SYSTEM P 570108					
APPROVAL DATE: 10/07/2021 OF PERMIT: CONSTRUCTION A							
PROPERTY A	() ()						
SUBDIVISION	ON: Rover Mill Estates	OT: 3 TAX ID:					
CONTRACTO	TOR: WTC Contractors	EMAIL:					
CONTRACTOR	OR ADDRESS: 333 Salem Botter B. Nestrice	De 1 2157 PHONE: 410-458-703					
PROPERTY O	OWNER: Security Development LLC	EMAIL:					
OWNER ADDR	DRESS: 8480 Baltimore National Pike, Ellicott City, MD 210	PHONE: 410-465-4244					
SEPTIC TANK S	K SIZE (GALLONS): 1500 TANK MANUFACTU	IRER: Mayer Bros					
PUMP MODEL	DEL: PUMP SIZE	PUMP TANK CAPACITY:					
DISTRIBUTIO	TION SYSTEM: GRAVITY PRESSURE DOSED E	BEDROOMS: 5 APPLICATION RATE: 1.2					
	LINEAR FEET REQUIRED: 148 INLET DEPTH: 3						
TRENCHES:	NCHES: TRENCH WIDTH: 3 MAXIMUM BOTTOM DEPTH: 6						
	MINIMUM SPACE BETWEEN TRENCHES: 10 EFFECTIVE AREA BEGINNING DEPTH: 4.5						
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:	3-18-21 EXPIRATION DATE: 8-16-22					
NOTE: CON	ONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION	PRIOR TO BEGINNING ANY INSTALLATION					
	ONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL						
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 21002823							
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.

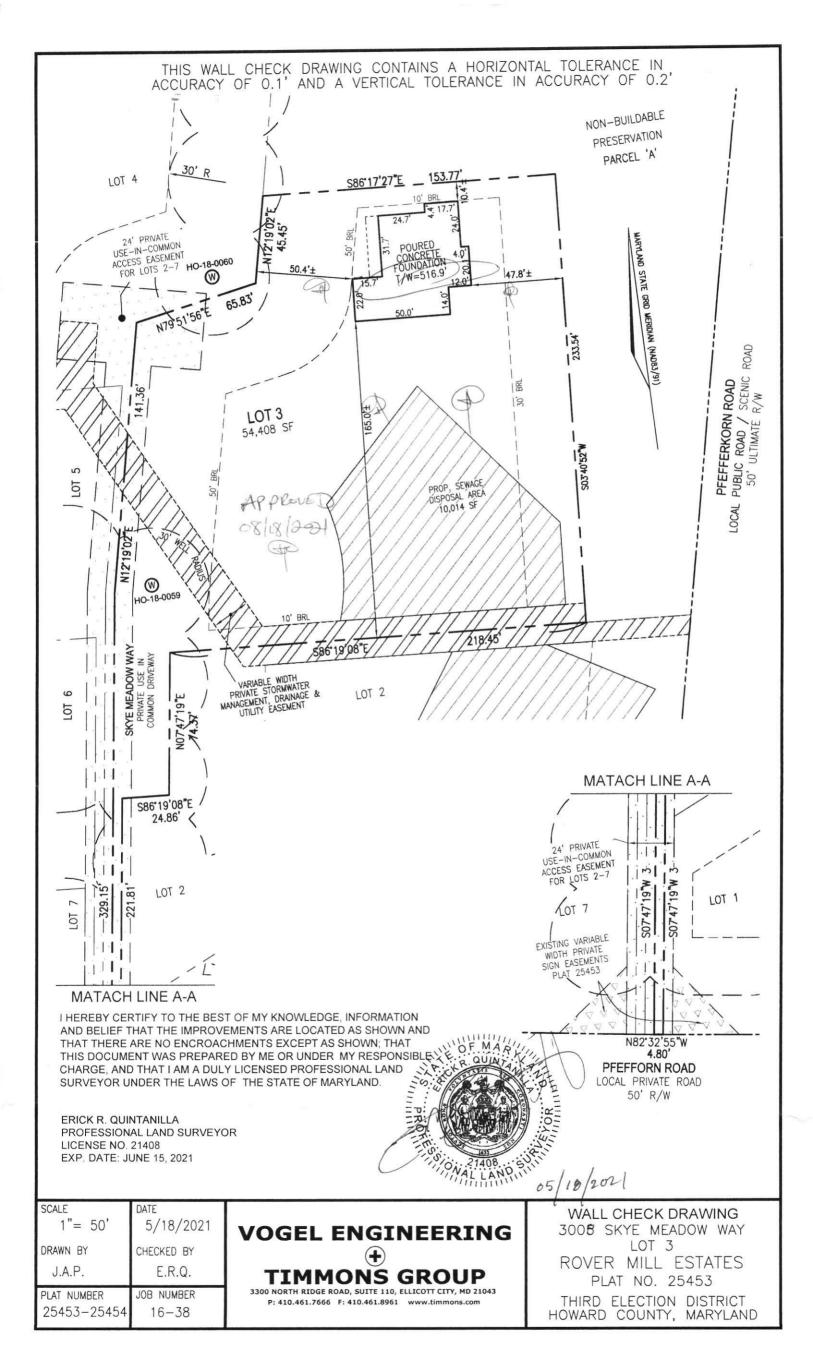
PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.
CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

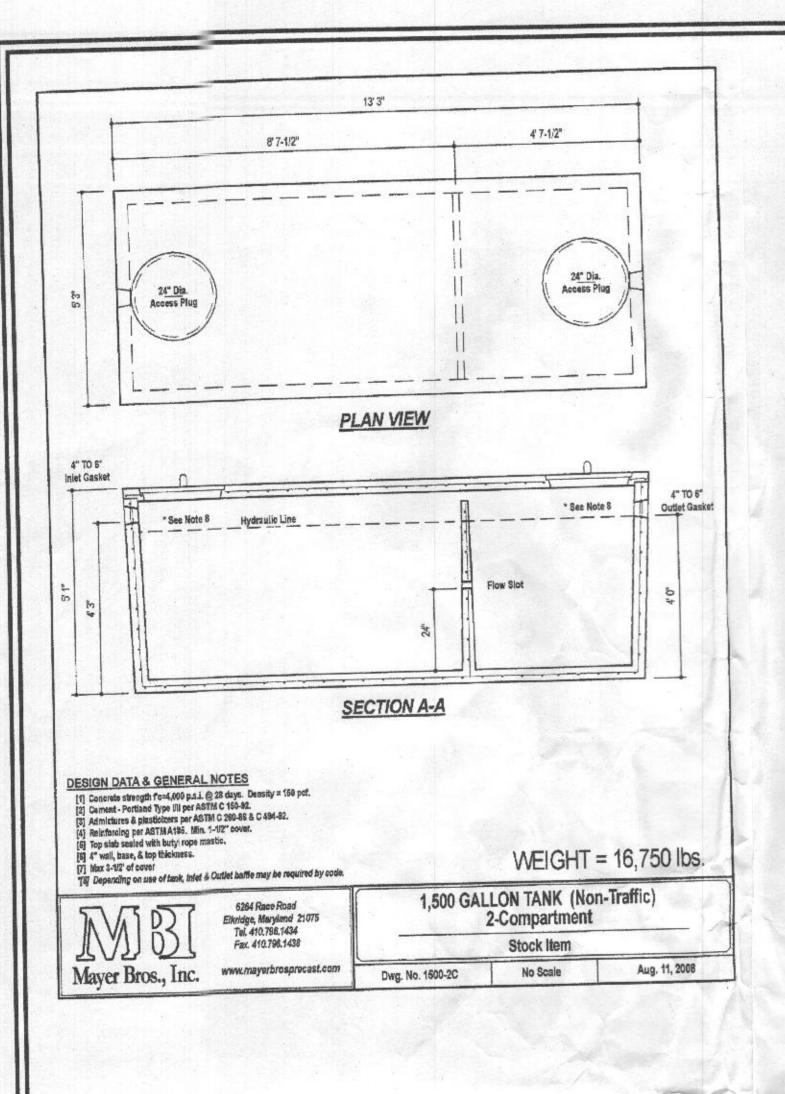
NOT TO SCALE	TRENCH/DRAINFIELD DATA WIDTH INLET BOTTOM
	NUMBER OF TRENCHES 2
	TOTAL LENGTH _150 F
	ABSORPTION AREA 450 37 + 35=
	DISTRIBUTION BOX LEVEL PORTE
	DISTRIBUTION BOX BAFFLE
	DISTRIBUTION BOX PORT
	SEPTIC TANK DATA
	SEPTIC TANK 1 LEVEL
	MANUFACTURER Babylon
SEE ATTACHED ASBUILT	CAPACITY 1500 GAL SEAM LOC 150
SEE ATTACTION	TANK LID DEPTH 2'
	BAFFLES inlet + outlet
Ae BIMIT	BAFFLE FILTER
1121000	MANHOLE LOC PRONT BACK
	6" PORT LOC
	WATERTIGHT TEST
	SLOTTED (15
	DATE ON LID 8-3-21
	PUMP/SEPTIC TANK LEVEL
	MANUFACTURER Babylon
	CAPACITY 1500 GAL
	SEAM LOC 160 TANK LID DEPTH 2'
	BAFFLES
	BAFFLE FILTER
	MANHOLE LOC FRONT BACK
	6" PORT LOC
	WATERTIGHT TEST
DO AD MANE	SLOTTED <u>NO</u> DATE ON LID <u>7-4-21</u>
ROAD NAME	DATE ON LID
PRE-CONSTRUCTION: 9/10/21 Laid out 2×74' trenches on contour,	moved downhill to stan
on contour in field. (St)	7
7. 9	
INSTALLATION: 9/14/21 8L constructed and tanks set.	(3)
09/15/2021 FORCE MAIN COMPLETED, TRENCHES com	PLETE; D BOX SET.
USED (NA	7
plot for functions ALARM functions; home	WDON opvente bronkers
MARKED IN PANOT DE	<u> </u>
	-
TO No.	WW 14/12/100/100
FINAL INSPECTOR DATE OF APPR	OVAL 10/07/004

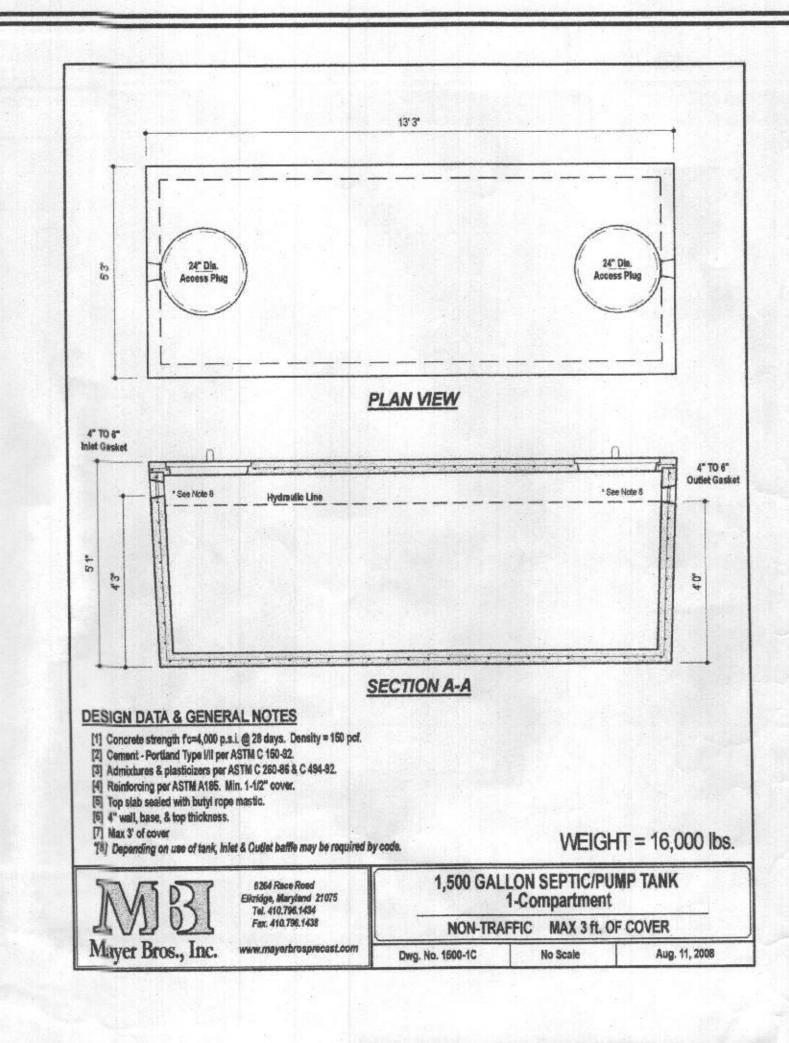
Howard County Health Department

Bureau of Environmental Health, Columbia, MD 21045 - 410-313-1771

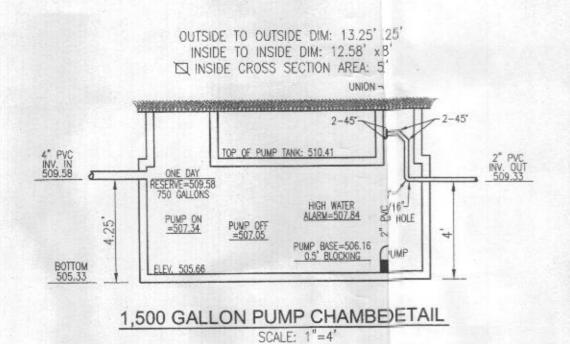
SEWAG	SE DISPOSAL PERMIT	NO. A	P-510108
	NTIAL PERMIT	COMMERCIAL FOR COMMER	to the second
PERMITEE: LOCATION:	**POST THIS CARD WHERE STOP ALL CONSTRUCTION ON SEW	E IT CAN BE SEEN F	ROM ROAD**
	DISPOSAL SYSTEM AND CONTACT DEPARTMENT BEFORE CONTINUIN		Date
COMMENTS	WORK IS SATISFACTORY, OK TO CONTINUE	Inspector	Date
	FINAL INSPECTION MADE, OK TO COVER ALL WORK	Inspector	Date







GROUND ELEV: 513.32 (© HIGHEST) TOP OF TANK: 510.76 INTO TRENCHES STA: 0+10 STA: 0+10 INV. 509.55 INV. 509.44 SEPTIC SYSTEM PROFILE SCALE : HORIZONTAL - 1"=50" VERTICAL - 1"=5"



Wastewater

APPLICATIONS

SPECIFICATIONS

• Temperature:

Discharge size: 2' NPT

· Capacities: up to 140 GPM

• Total heads: up to 128 feet TDH

voltage, phase and RPM's available.

Class B insulation on ⅓ - 1½ HP models.

Built-in overload with automatic reset.

Class F insulation on 2 HP models.

Single phase (60 Hz):

Specifically designed for the following uses:

Solids handling capabilities: ¾" maximum

104°F (40°C) continuous, 140°F (60°C) intermittent.

See order numbers on reverse side for specific HP,

Fully submerged in high-grade turbine oil for lubri-cation and efficient heat transfer.

Capacitor start motors for maximum starting torque.

FLOW: 30 GPM H=20.13' USE GOULDS W#83 (OR EQUIVALENT)

Hospitals, Industry, Effluent Systems

· Homes, Farms, Trailer Courts, Motels, Schools,

• 11/2 HP and larger units have bare lead cord ends.

Class 10 overload protection must be provided in

. STOW power cords all have bare lead cord ends.

Designed for Continuous Operation: Pump ratings are within the motor manufacturer's recommended

Bearings: Upper and lower heavy duty ball bearing

• Power Cable: Severe duty rated, oil and water resis-

· O-ring: Assures positive sealing against contami-

Tested to UL 778 and CSA 22.2 108 Standards By Canadian Standards Association File #LR38549

tant. Epoxy seal on motor end provides secondary

moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Option-

working limits, can be operated continuously with-

Three phase (60 Hz):

separately ordered starter unit.

out damage when fully submerged.

al lengths are available.

nants and oil leakage.

AGENCY LISTINGS

NO. BEDROOMS = 5 DESIGN FLOW = 5(150 GPD) = 750 GPDDOSE: 1/6 DESIGN FLOW = 125 GPD 125 GALLONS/7.48 FT³/GAL, = 16.71 FT³ 16.71 FT³/57.62 SF = 0.29' ONE DAY RESERVE: 750 GALLONS/7.48 $FT^3/GAL = 100.27 FT^3 + 100.27 FT^3/57.62 SF = 1.74 FT$ TDH (FRICTION + STATIC) FRICTION FITTINGS: UNION: 1x2 = 2 45' ELBOW (H+V): 12x8 = 96 90" ELBOW: 1x7 = 7 FITTING EQ. LENGTH: 105.0 LF PIPE LENGTH: 187.8 LF TOTAL LENGTH: 292.8 LF FRICTION LOSS (30 GPM): (1.54)(292.8)/100 = 4.51

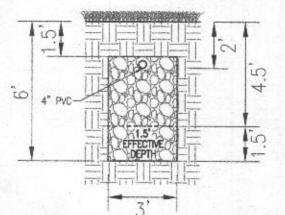
STATIC: 522.67-507.05 (PUMP OFF) = 15.62'

TDH: 15.62+4.51 = 20.13' USE COULDS WEO'S (OR EQUIVALENT)

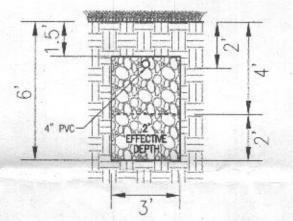
Goulds Water Technolog . SJTOW or STOW severe duty oil and water resistant power cords. • 1/2 - 1 HP models have NEMA three prong grounding

> **INITIAL SYSTEM** TRENCH DETAIL

> > NOT TO SCALE



FIRST REPLACEMENT SYSTEM TRENCH DETAIL NOT TO SCALE



SECOND REPLACEMENT SYSTEM TRENCH DETAIL NOT TO SCALE

OWNER
SECURITY DEVELOPMENT, LLC
8480 BALTIMORE NATIONAL PIKE, SUITE 415
ELLICOTT CITY, MD 21043
(410) 465-4244

BUILDER
CATONSVILLE HOMES
11175 STRATFIELD COURT
MARRIOTTSVILLE, MD 21104
(410) 489-7800

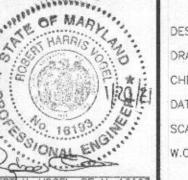
ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

ROVER MILL ESTATES - LOT 3 3008 SKYE MEADOW WAY WEST FRIENDSHIP, MD 21794

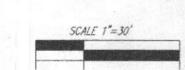
PARCEL: 169 TAX MAP: 15 GRID: 14 3RD ELECTION DISTRICT

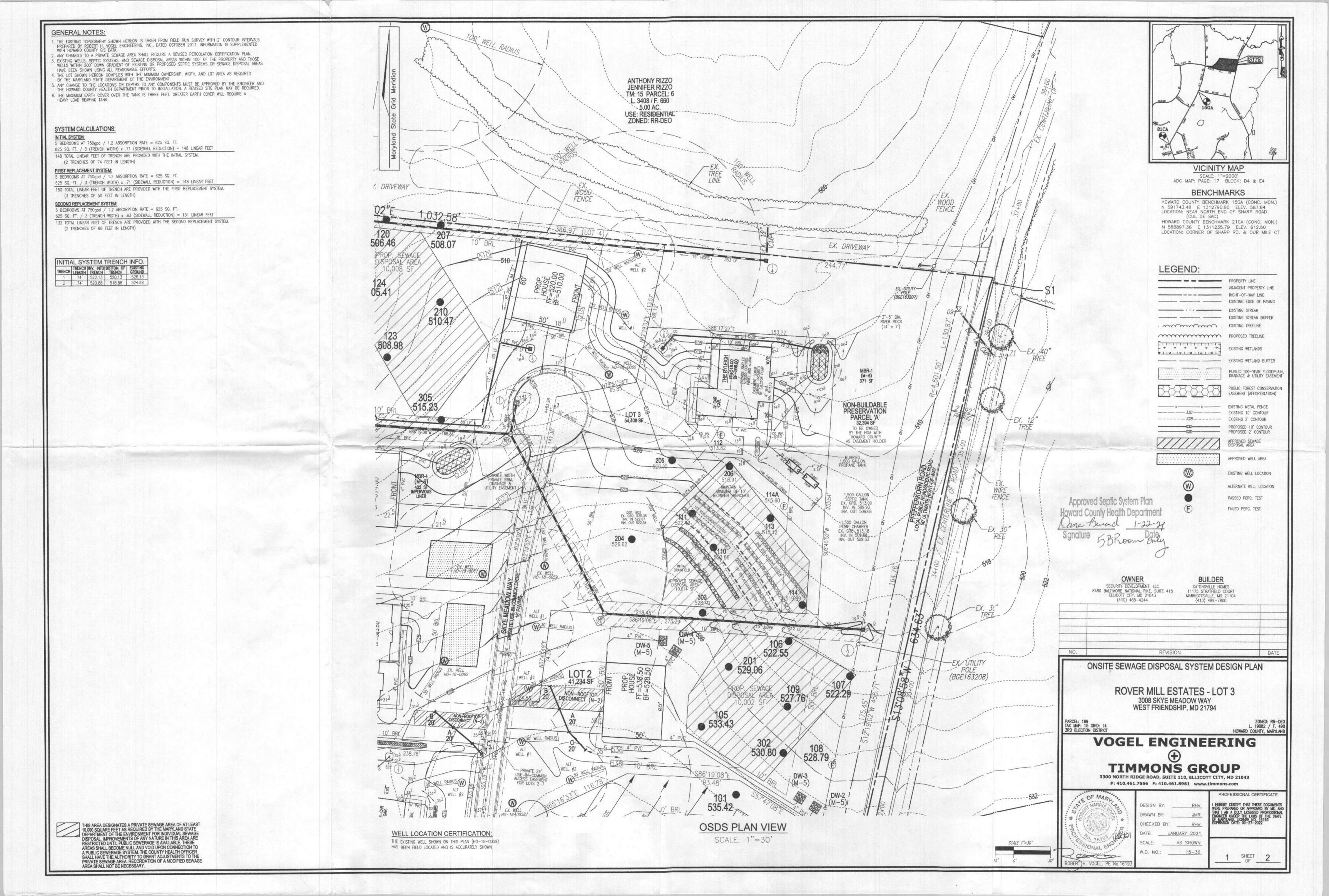
ZONED: RR-DEO L. 19082 / F. 490 HOWARD COUNTY, MARYLAND **VOGEL ENGINEERING**

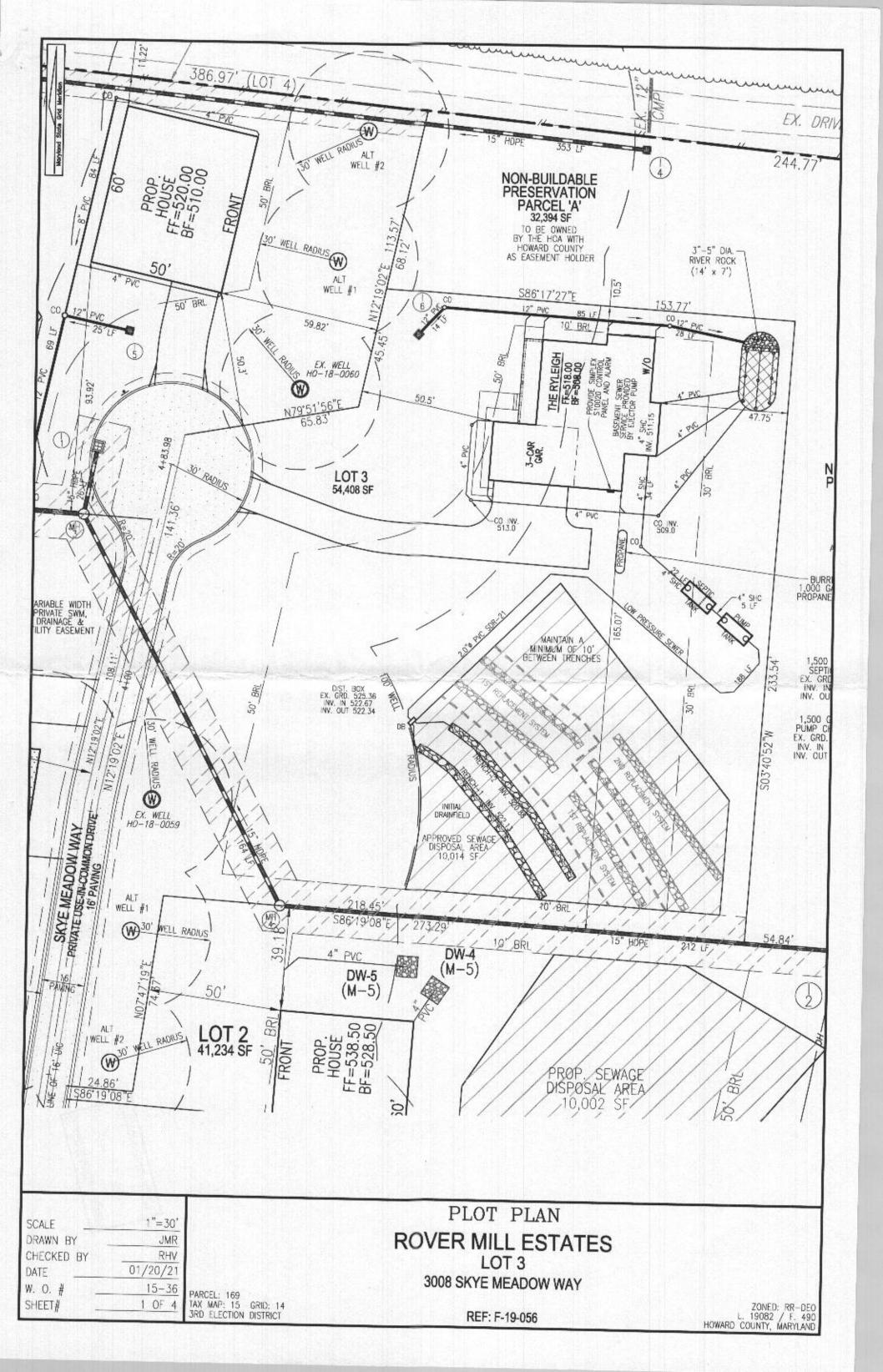
TIMMONS GROUP



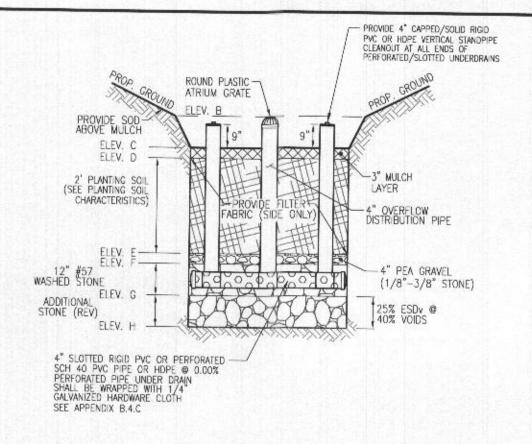
CHECKED BY: RHV DATE: JANUARY 2021 AS SHOWN PROFESSIONAL CERTIFICATE 2 SHEET OF

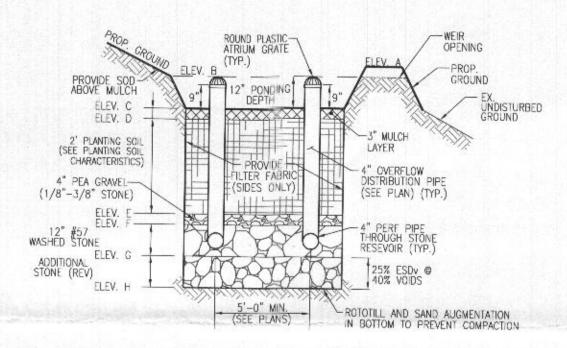












MICRO-BIORETENTION

(MBR-1)

W/ WEIR ONLY NOT TO SCALE

		MIC	RO-BIO	RETEN	TION F.	ACILITY	Y ELEV	ATIONS	(M-6)	of the last	5.5
FACILITY	A	В	С	D	E	F	G	н	WER ELEV.	UNDERDRAIN	FACILITY
MBR-1	506.30	506.00	505.00	504.75	502.75	502.42	501.42	500.59	506.00	501.75	371 SF

OPERATION AND MAINTENANCE SCHEDULE FOR (M-6) MICROBIORETENTION AREAS

1. ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASHOUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING, PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING, ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL VOL. II, TABLE A 4.1 AND 2.

2. SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL, THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, TREATMENT OF ALL DISEASED TREES AND SHRUBS AND REPLACEMENT OF ALL DEFICIENT STAKES AND WIRES. OF ALL DEFICIENT STAKES AND WIRES. 3. MULCH SHALL BE INSPECTED EACH SPRING, REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS.

4. SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.

MICROBIORETENTION NOTES:

ONLY THE SIDES OF MICROBIORETENTION ARE TO BE WRAPPED IN FILTER FABRIC. FILTER FABRIC BETWEEN LAYER OR AT THE BOTTOM OF THE MICROBIORETINTION WILL CAUSE THE MBR TO FAIL, AND THERFORE SHALL NOT BE INSTALLED.

2. WRAP THE PERFORATED MBR UNDERDRAIN PIPE WITH 1/4" MESH (4x4) OR SMALLER

GALVANIZED HARDWARE CLOTH.

3. PROVIDE 5' MINIMUM SPACING BETWEEN UNDER DRAIN AND PERFERATED PIPE THROUGH STONE RESIVOIR OR SPACE PIPE EQUALLY ACROSS BOTTOM FOR SMALL BIOS. (SEE PLANS)

PARCEL: 169

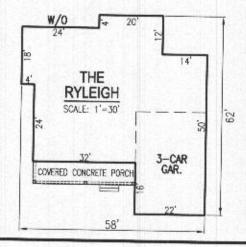
TAX MAP: 15

3RD ELECTION DISTRICT

GRID: 14

MBR-1

D.A.=20,589 SF IMP=5,145 I=25 Rv=0.05+(0.009)(25)=.28 ESDv=(20,589)(1.0)(0.28)/12=480 CF (MIN.) AREA ABOVE MULCH=(480 CF)(0.75)=360 SF (MIN.) AREA PROVIDED 371 SF ESDv PROVIDED 371 SF/.75 = 495 CF



00415	1"=30'			
SCALE	1 = 30			
DRAWN BY	JMR			
CHECKED BY	RHV			
DATE	01/20/21			
W. O. #	15-36			
SHEET#	3 OF 4			

PLOT PLAN **ROVER MILL ESTATES** LOT 3

3008 SKYE MEADOW WAY

REF: F-19-056

ZONED: RR-DEO L. 19082 / F. 490 HOWARD COUNTY, MARYLAND