

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: 5/31/23 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 514144

APPROVAL DATE: 6/6/2023 **PERMIT: New CONSTRUCTION**

A _____

PROPERTY ADDRESS: 1939 Route 92

SUBDIVISION: Slack Property LOT: 3B TAX ID: _____

CONTRACTOR: Same Creek EMAIL: _____

CONTRACTOR ADDRESS: _____ PHONE: _____

PROPERTY OWNER: Viking Development Corp EMAIL: _____

OWNER ADDRESS: 815 Windriver Dr. Sykesville PHONE: 410-977-2182

SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: MBI

PUMP MODEL: _____ PUMP SIZE: _____ PUMP TANK CAPACITY: _____

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: 0.6

TRENCHES:	LINEAR FEET REQUIRED: <u>168'</u>	INLET DEPTH: <u>4'</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'</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	<u>Install 2 trenches at 84'</u>	

ISSUED BY: Henry Oswald ISSUE DATE: 5/31/23 EXPIRATION DATE: 6/1/24

- 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 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

See separate sheet for As-built

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	4'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		177
ABSORPTION AREA		531 Ft ²
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		yes

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	yes
MANUFACTURER	Babylon
CAPACITY	1500 GAL
SEAM LOC	top
TANK LID DEPTH	0.5
BAFFLES	6" Front & 4" back
BAFFLE FILTER	—
MANHOLE LOC	front & back
6" PORT LOC	—
WATERTIGHT TEST	—
SLOTTED	yes
DATE ON LID	4/17/2023

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	—

PRE-CONSTRUCTION:

4/2/2023 SDA staked, shot elevations, contour, mound trucks up towards top part of SDA to avoid large trees. Tank location OK. (KMD)

INSTALLATION:

6/15/2023 - Tank set, baffles not installed yet. House to tank has been dug, but pipe not laid. Tank to 1st trench dug, pipe not laid. Inlet @ upper trench 4' per plan. same OK. upper trench @ 85. installer not backfilling 2nd work, respect for filter on upper trench, entire lower trench, pipe @ front & back line, + D-box. (C)
6/16/2023 - sewer hasn't come out of house yet. Pipe used is SCHED 40. respect for c/a near foundation. Tank set, 6" front & 4" back baffles, saw slots = 3' cover on tanks. c/a installed @ backline every 75'. D-box set, levers used to level D-box. trenches not same length, one @ 92' & one @ 85'. Space between trenches 13'. saw obs ports @ end of trenches. gave OK to backfill all work (C)

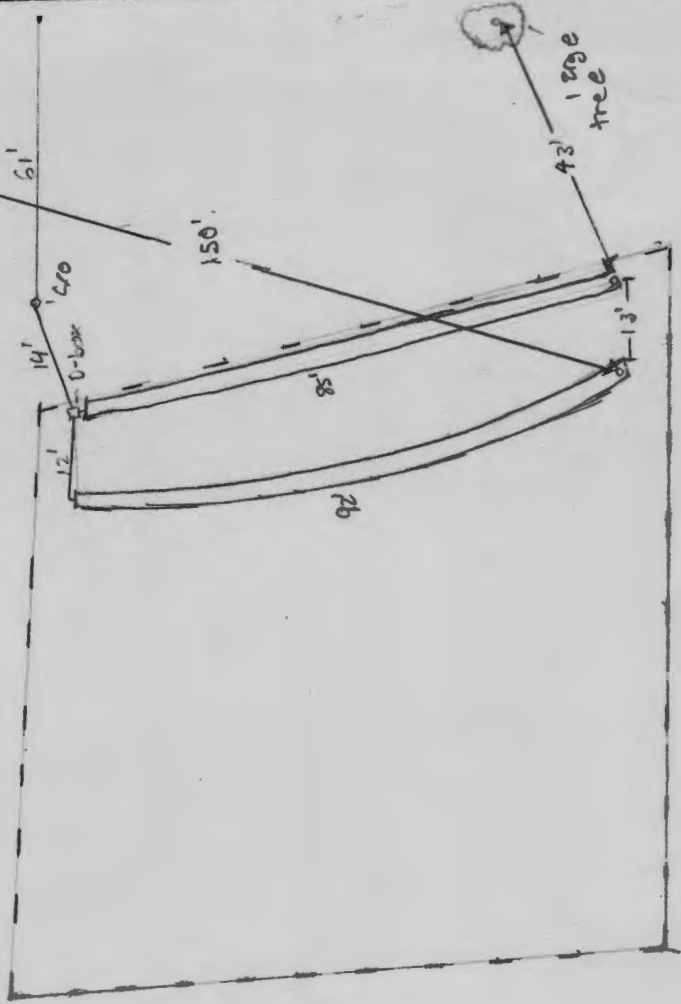
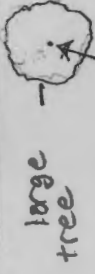
FINAL INSPECTOR

S. Price

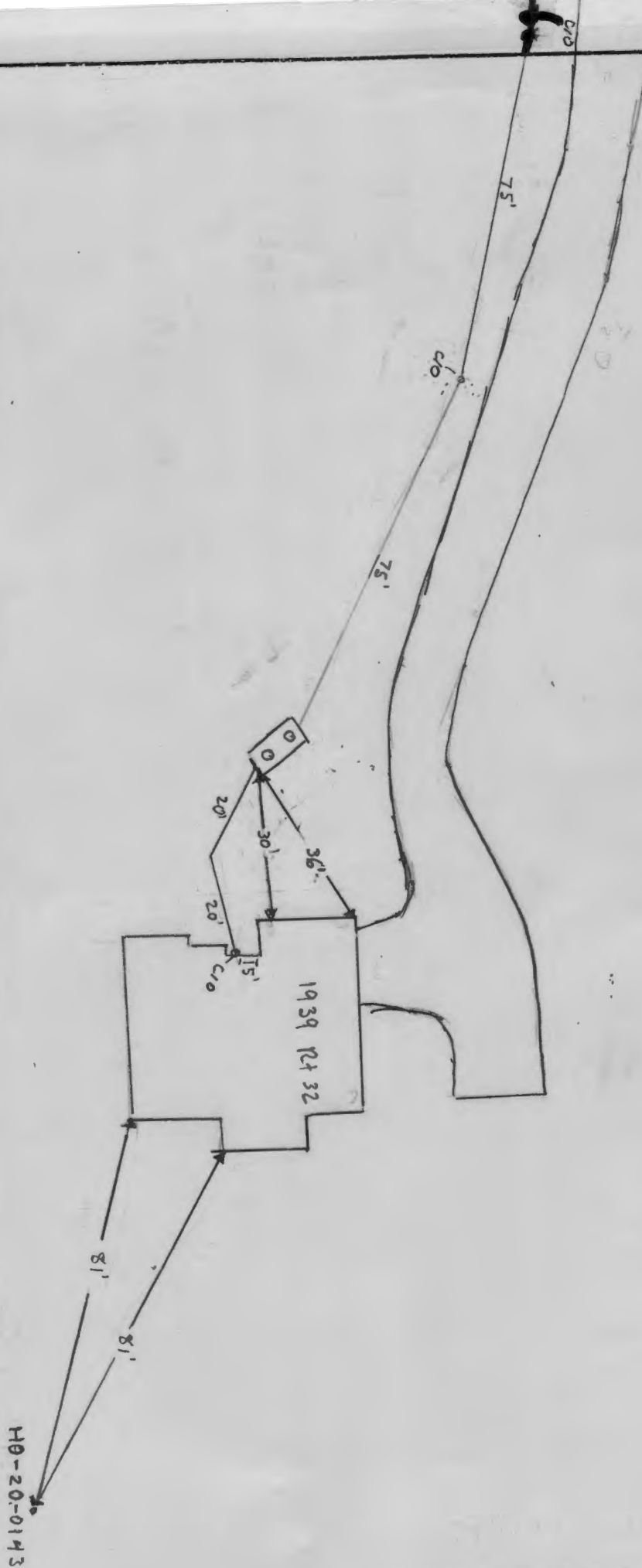
DATE OF APPROVAL

6/16/2023

NOT TO SCALE 1" ≈ 30'



NOT TO SCALE 1" ≈ 30'



Project:

Slack Property

Cogo File: G:\Survey\03462g

Volume: EXT06

Modified: 2021-11-22 02:04:52 pm By: ebp

Range: Selected

Printed: 2021-11-22 02:05:08 pm By: ebp

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P 410-848-4060
410-876-6040
F 410-848-8818

GRADESHEET

!! Units: US Feet !!

GS Name	Station Dsn Name	So Information Stk Name	Grade Elev	ID ID	Cut	Fill
-EC10	TR1	I.PinTR1 10	605.1954 605.2020	PtCk	0.0067	
-EC11		I.PinTR1 11	605.2070	PtCO		
-EC12		Stake Driveway for Clearing "Slack Property"	0.0000			
-EC13	3+50.0000 CL	Os5'EdgeDw 13	592.66	0.0000 591.9476	Fg. Ed. Dwy BoS	0.71
-EC14	3+00.0000 CL	Os5'EdgeDw 14	590.16	0.0000 589.4997	Fg. Ed. Dwy BoS	0.66
-EC15	2+50.0000 CL	Os5'EdgeDw 15	587.66	0.0000 584.4573	Fg. Ed. Dwy BoS	3.20
-EC16	4+00.0000 CL	Os5'EdgeDw 16	595.16	0.0000 595.5832	Fg. Ed. Dwy BoS	0.42
-EC17	4+33.2710 CL	Os5'EdgeDw 17	596.74	0.0000 596.7636	Fg. Ed. Dwy BoS	0.02
-EC18	S09	CorSepArea 18	0.0000 591.0160	BoS		
-EC19	0+20.0000 PP	EdgeSepAreaOs20'Cor 19	0.0000 585.5464	BoS		
-EC20	4+55.0000 CL	Os5'EdgeDw 20	597.65	0.0000 598.5574	Fg. Ed. Dwy BoS	0.91
-EC21	4+76.0560 CL	Os5'EdgeDw 21	598.73	0.0000 599.5075	Fg. Ed. Dwy BoS	0.78
-EC22	5+19.5000 CL	Os5'EdgeDw 22	600.92	0.0000 601.9885	Fg. Ed. Dwy BoS	1.07
-EC23	5+63.3720 CL	Os5'EdgeDw 23	603.11	0.0000 604.4867	Fg. Ed. Dwy BoS	1.38
-EC24	WW1	Well 24	0.0000 606.1124	BoS		
-EC25	CP1	I.PinCP1 25	608.3967 608.4373	PtCk	0.0106	
-EC26		I.PinCP1 26	608.4070	PtCO		
-EC27	1+52.0000 PP	Stake 27	0.0000 605.6008	PLS1		
-EC28	1+66.5000 PP	Stake 28	0.0000 603.7031	PLS1		
-EC29	2+00.0000 CL	Os5'EdgeDw 29	585.16	0.0000 583.1246	Fg. Ed. Dwy BoS	2.04
-EC30	1+51.5000 CL	Os5'EdgeDw 30	582.73	0.0000 582.5577	Fg. Ed. Dwy BoS	0.17
-EC31	0+94.6130 CL	Os5'EdgeDw 31	579.89	0.0000 578.7743	Fg. Ed. Dwy BoS	1.12

3/4

Project: Slack Property

Cogo File: G:\Survey\03462g

Volume: EXT08

Modified: 2021-11-22 02:04:52 pm By: ebp

Range: Selected

Printed: 2021-11-22 02:05:08 pm By: ebp

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P 410-848-4060
410-876-6040
F 410-848-8818

GRADESHEET

!! Units: US Feet !!

GS Name	Station Dsn Name	So Information Stk Name	Grade ID Elev ID	Cut	Fill
-EC32	0+68.5850 CL	Os5'EdgeDw 32	0.0000 576.4921	BoS	
-EC33	0+47.6660 CL	Os5'EdgeDw 33	0.0000 574.8924	BoS	
-EC34	0+20.0000 CL	Os5'EdgeDw 34	0.0000 571.3793	BoS	
-EC35	SD1	EndPipe 35	0.0000 568.5005	BoS	
-EC37	SD2	BeginPipe 37	0.0000 567.4984	BoS	
-EC38	0+00.0000 PP	CtrDitch 38	0.0000 566.2405	MIS	
-EC39	0+25.0000 PP	CtrDitch 39	0.0000 567.7577	MIS	
-EC40		GuyWire 40	567.8244	UPGe	
-EC41	TR3	I.PinTR3 41	572.6989 572.7370	PtCk	0.0361
-EC42		I.PinTR3 42	572.7306	PtCO	
CP2		Nail CP2	585.7392	TSe	
CP3		Nail CP3	601.6971	TSe	
CP4		Nail CP4	572.4070	TSe	

DRS & Associates

52 Winters Street Westminster, MD 21157

410-848-4060 410-876-6040 F 410-848-8818

Gradesheet Abbreviations

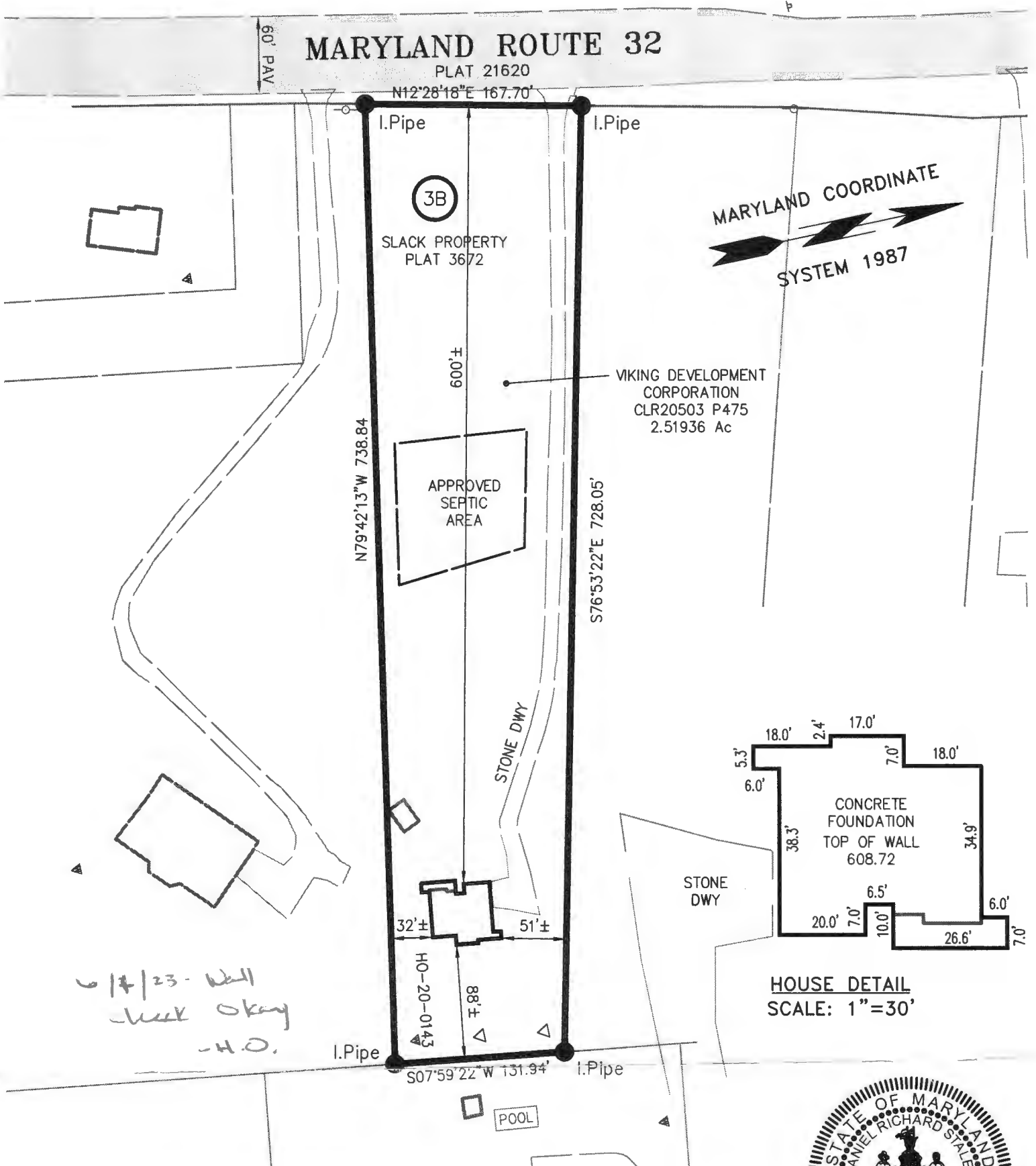
B	Basement floor elevation	N	North
BC	Building Corner	NAD	North America Datum
Beg	Begin	NAVD	North America Vertical Datum
BL	Base Line	NDC	Nose Down Curb
BoC	Back of Curb	Os	Offset
BoD	Bottom of Duct bank	PC	Point of Curve
BoS	Bottom of Stake	PCSI	Property Corner Stake layout
Bot	Bottom	PGL	Profile Grade Line
BoT	Bottom of Trench	PL	Property Line
BoW	Bottom of Wall	PLSI	Property Line Stake layout
C-D-S	Cul-De-Sac	PT	Point of Tangent
CL	CenterLine or CLass	PtCk	Point Check
CO	CleanOut	PtCo	Point Control
Cor	Corner	PVC	Point of Vertical Curve
Ctr	Center	PVI	Point of Vertical Intersection
Dia	Diameter	PVT	Point of Vertical Tangent
Dwy	Driveway	R	Right or Radius
E	East	RP	Radius Point
EL	Elevation	S	South
EoP	Edge of Paving	SC	Sewer Connection
ESE	Emergency Spillway Elevation	SD	Storm Drain
Ex	Existing	SS	Sanitary Sewer
F	First floor elevation	SSMe	Sanitary Sewer Manhole existing
FCE	Forest Conservation Easement	Stk	Stake
FG	Finished Grade	TCB	Top Constructed Berm
FL	Flow Line	TCD	Top Constructed Dam
FoC	Face of Curb	ToB	Top of Berm or Bank
FoW	Face of Wall	ToC	Top of Curb
G	Garage floor elevation	ToD	Top of Dam
Gar	Garage	Toe	Toe
Gd	Ground	ToF	Top of Footer
GR	Guard Rail	ToG	Top of Grate
GWw	Grass Waterway	Top	Top
HC	House Corner	ToR	Top of Rim
HDPE	High Density PolyEthylene	ToS	Top of Stake
HP	High Point	ToW	Top of Wall
Hse	House	U-I-C	Use-In-Common
Hub	Hub	W	West
IDE	Invert Ditch Elevation	WC	Water Connection
Inv	Invert	WL	WaterLine
L	Left	WQB	Water Quality Basin
LoD	Limits of Disturbance	WQS	Water Quality Swale
LP	Low Point	WQT	Water Quality Trench
		WRPE	Water Resource Protection Easement

LEGEND

- ▽ EXISTING WELL
- ▽ PROPOSED WELL



DRS ASSOCIATES
LAND DESIGN CONSULTANTS



This is to certify that I have surveyed the property shown hereon, known as, the Viking Development Corporation, located at 1939 Route 32 in the 3rd Election District of Howard County, Maryland for the purpose of locating the improvements only, and that the improvements are located (±1) as shown hereon, and are not in a flood prone or flood hazardous area.



Daniel R. Staley 2023-05-31
Daniel R. Staley L.S. 10735 Date

09 23 299
Map Block Parcel

1"=100'
Scale

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

MEMORANDUM

TO: Alexander's Well Drilling
Attn: Randall Alexander

FROM: **Joseph Cabahug**
Licensed Environmental Health Specialist **001997**
Howard County Health Department
Well & Septic Program

RE: Well Permit – 1939 Route 32

DATE: December 2nd, 2021

As of the time of this letter, the site was not cleared of trees and debris in order to inspect the well box stakes or staked well location. It is unknown whether or not the stakes remain in the field indicating drilling site.

Call for inspection 2 days prior so we can confirm stake location.

For questions, call (410) 313 – 2643

MARYLAND ROUTE 32
PLAT 21620



4 BEDROOM: 100 GPD 1500 Gallon Top Seam, 2 Compartment Septic Tank

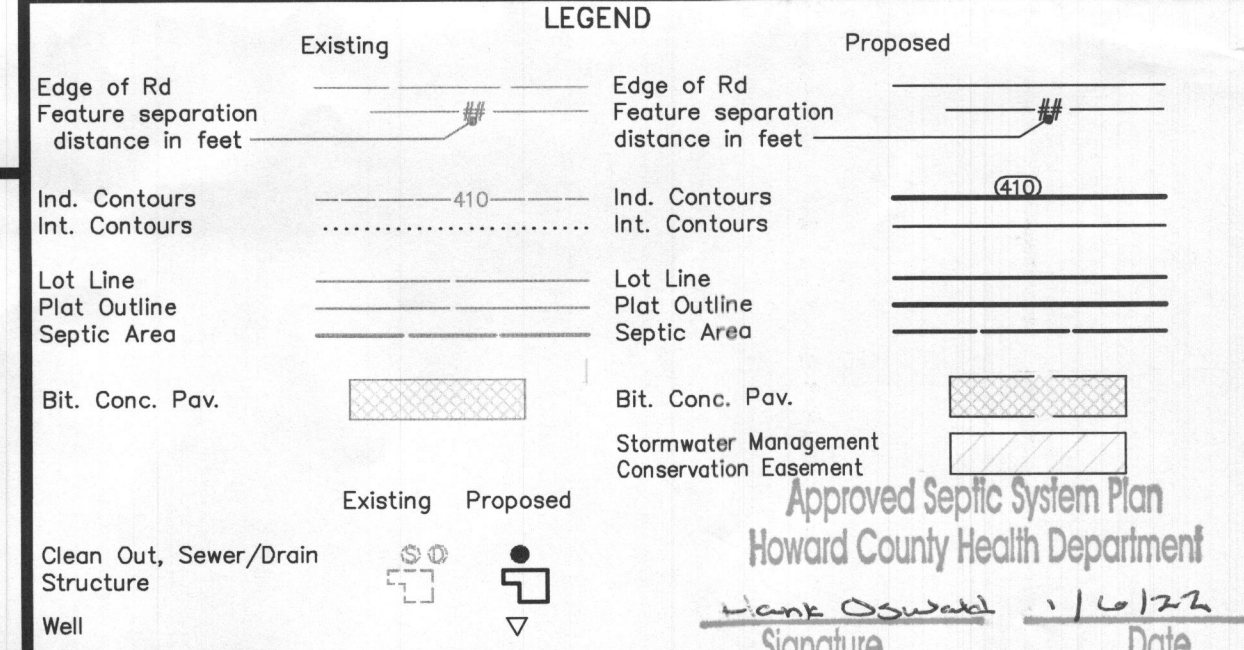
INITIAL SYSTEM:
Loading Rate: 0.6 GPD per Square Foot
Effective Area Depth: 5.0' to 8.0'
3' Wide Trench
Deep Trench: 2 Lines @ 84.00'
13' C-C

FIRST REPLACEMENT SYSTEM:
Loading Rate: 0.8 GPD per Square Foot
Effective Area Depth: 6.0' to 8.0'
3' Wide Trench
Deep Trench: 2 Lines @ 79.00'
13' C-C

SECOND REPLACEMENT SYSTEM:
Loading Rate: 0.8 GPD per Square Foot
Effective Area Depth: 5.0' to 8.0'
3' Wide Trench
Deep Trench: 2 Lines @ 63.00'
13' C-C

VICINITY MAP SCALE: 1"=2000'

- GENERAL NOTES**
- Current Title Reference:
Owner: Viking Development Corporation
Deed Reference: County Land Record 20503 Page 475
Date: 2021-February-11
Grantor: United States Of America
 - Subject Property Zoned: RR-DEO.
 - Total area of property: 109743.41 sq.ft.
 - Septic assessment subject to Howard County Health Department review.
 - Length of trench to be determined at time of septic permit issuance.
 - Contractor/Builder to verify elevation in the field before beginning any construction.
 - National Flood Insurance Rate: MAP 240270055D NO 100yr Flood Plain
 - The topography shown hereon was taken from data by Howard County and based on Bare Earth LIDAR Data U.S. Feet supplemented with field run data by DRS & Associates and is verified to accurately represent the relative changes on the subject property by DRS & Associates.
 - No wetlands currently exist on the property.
 - For driveway entrance detail refer to Howard County Design Manual Volume IV Standard Detail R6.06.
 - This area designates a private sewage area as required by the Maryland Department of the Environment for individual sewage disposal. For lots created prior to March of 1972 it provides at least enough area to accommodate an initial and two replacement septic systems as required by the Howard County Health Department. Improvements of any nature in this area are restricted until public sewerage is available. This area 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.
 - The lot shown hereon complies with the minimum ownership width and lot area as required by the Maryland State Department of the Environment.
 - Existing wells and/or sewerage easements within 100 feet of the property have been shown from the best available information.
 - The existing well shown on this plan identified with the attached well tag number "HO-20-0143" has been field located by DRS & Associates professional land surveyor and is accurately shown.
 - All house sites shown comply with minimum building restriction regulations.
 - 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.
 - Any changes to a private sewage easement shall require a Revised Percolation Certification Plan.
 - The well must pass potability tests and receive an I.C.O.P. certificate prior to Use & Occupancy.
 - Well must be drilled and completion report approved prior to Health Department approval of the building permit.
 - OSDS Plan showing 3 systems of proposed # of bedrooms must be submitted and approved prior to Health Department approval of the building permit.
 - 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.
 - The maximum earth cover over the tank is 3 feet. Greater earth cover will require a heavy load bearing tank.

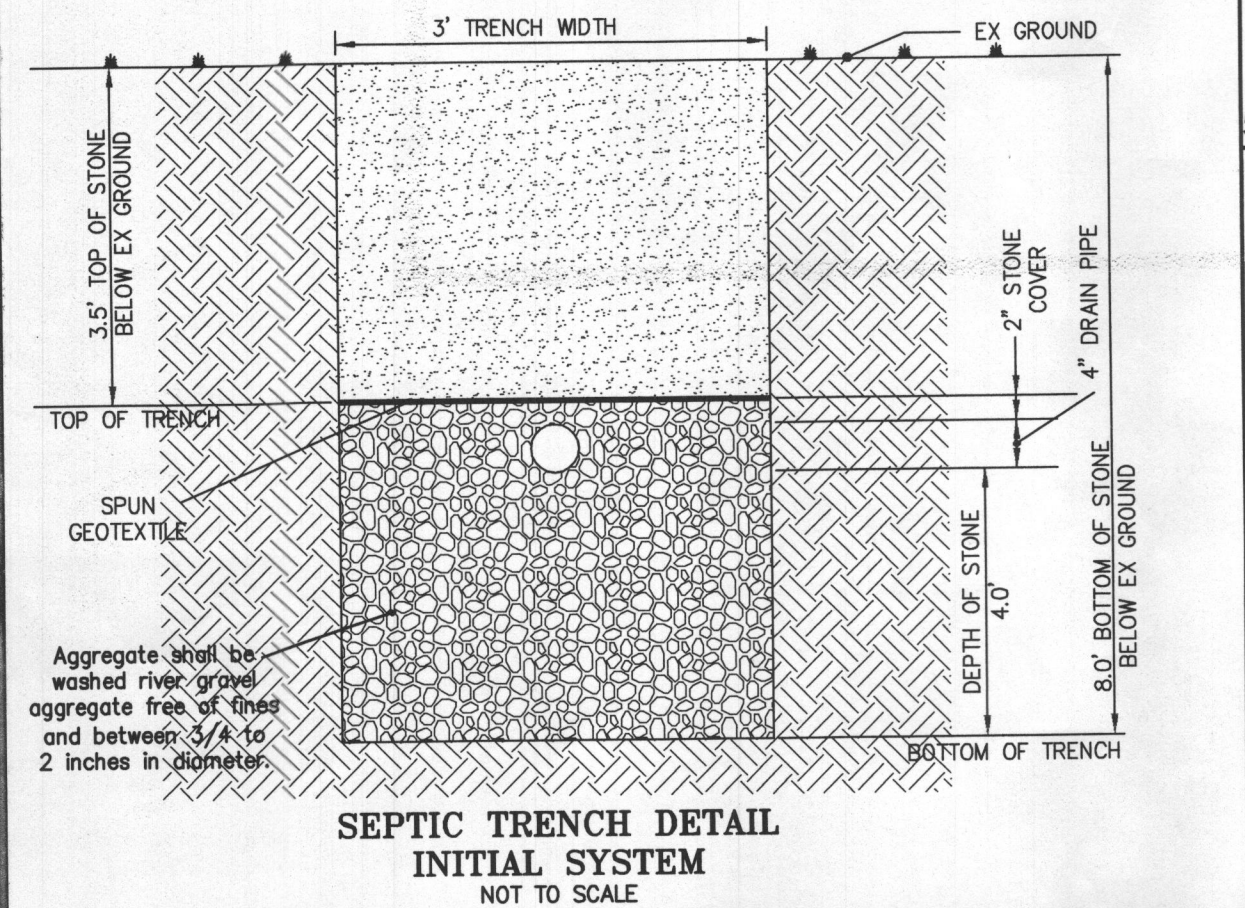


SEPTIC TEST LEGEND

⊙ Deep Trench Perc Pass
⊖ Deep Trench Perc Fail

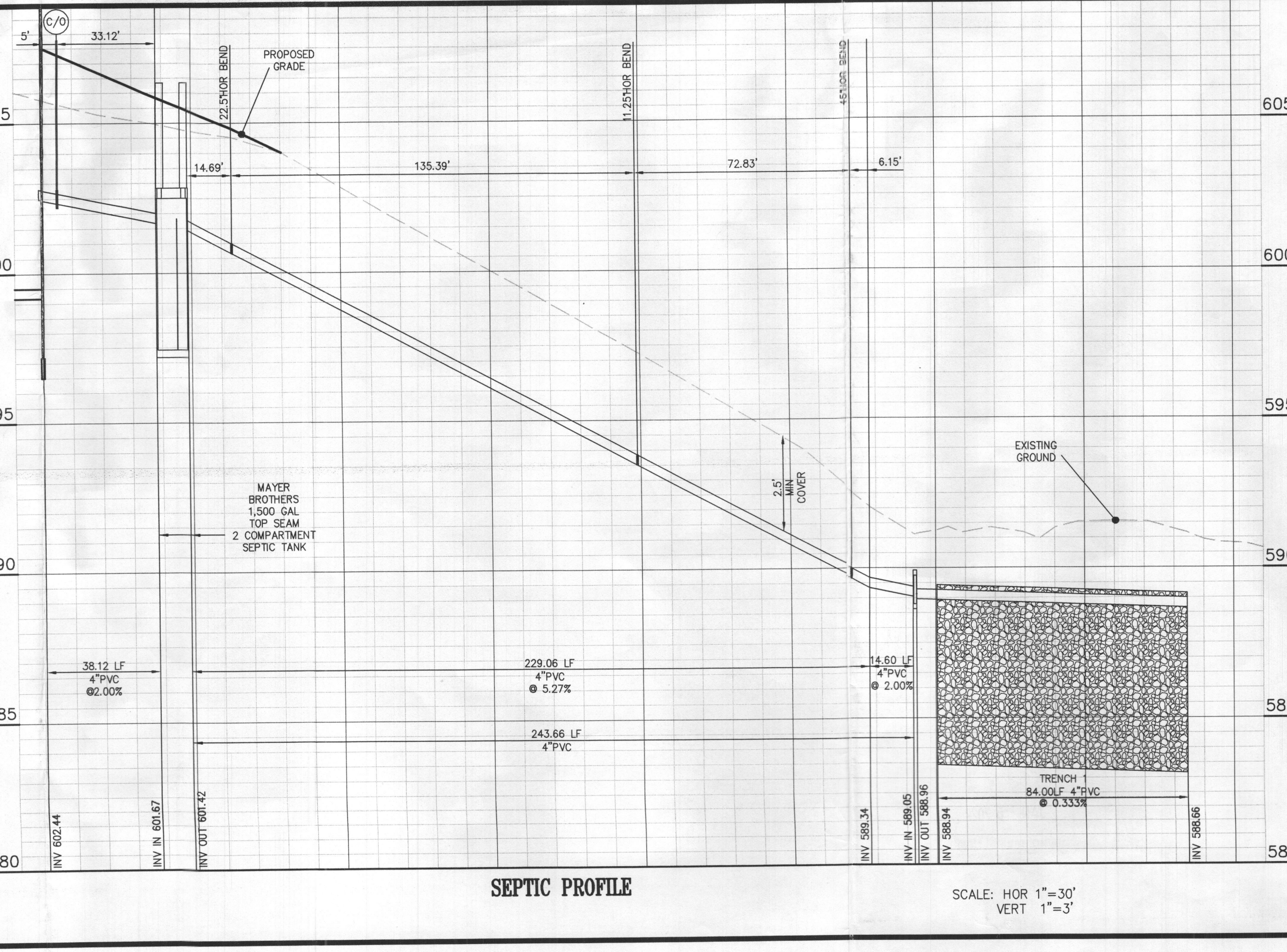
SEPTIC TEST RESULTS

TEST ID	TEST TYPE	TEST COMMENTS	SAN	TEST DATE
1	⊙	8min@5.4', Soils ok to 12'	ho	2021-02-19
2	⊙	15min@6', Soils ok to 12'	ho	2021-02-19
3	⊙	17min@6', Soils ok to 12'	ho	2021-02-19
4	⊙	17min@5.5', Soils ok to 12'	ho	2021-02-19
5	⊙	15min@6.6', Soils ok to 12'	ho	2021-02-19



INVERT CHART FOR TRENCHES

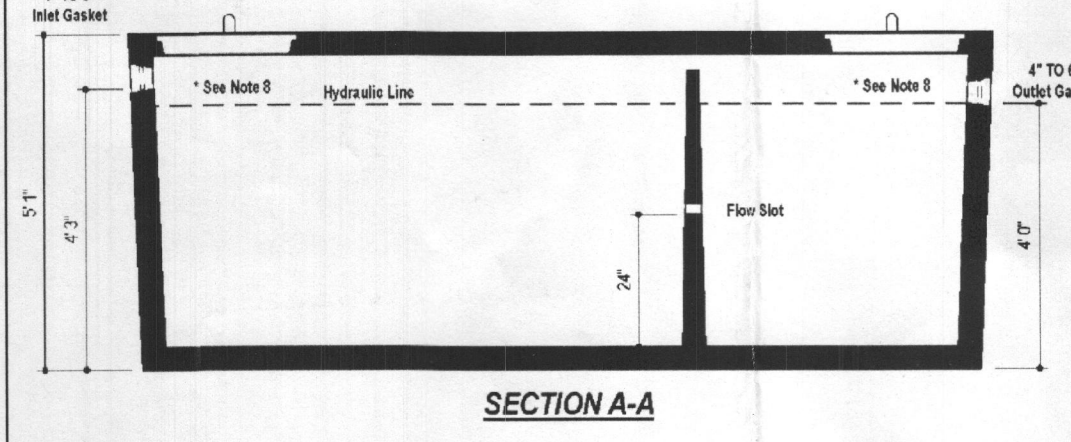
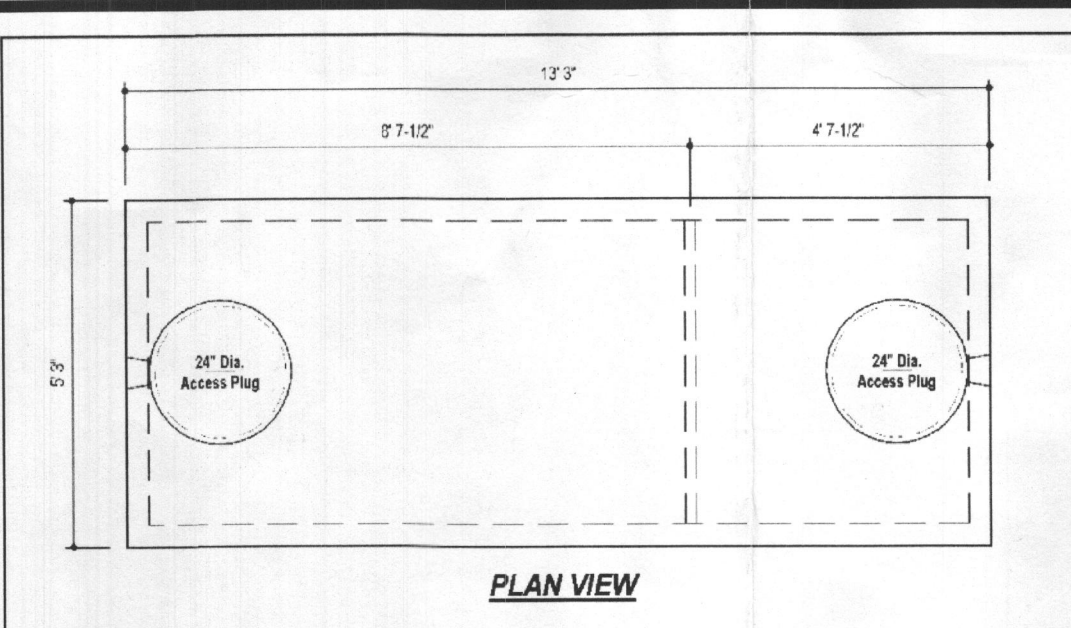
TRENCH NUMBER	BEGINNING EX GRD EL	BEGINNING INV	BEGINNING TRENCH BOT	END EX GRD EL	END INV	END TRENCH BOT
1	591.26	588.94	583.75	591.16	588.66	583.47
2	590.16	588.16	582.16	590.13	587.88	581.88
3	589.08	587.08	581.08	589.06	586.82	580.82
4	588.04	586.04	580.04	588.00	585.78	579.78
5	586.85	584.85	578.85	586.85	584.64	578.64
6	585.73	583.73	577.73	585.73	583.52	577.52



Slack Property

Name	North	East	Bearing	Distance
SLab1	600643.50285	1326454.68853	N 12°28'18"E	167.69733
SLAc6	600807.24305	1326490.90373	S 76°53'22"E	728.04557
SLAc1	600642.10069	1327199.97239	S 75°9'22"W	131.93876
SLAd3	600511.44255	1327181.63427	N 79°42'13"W	738.84372
SLab1	600643.50285	1326454.68853		

Total Area 109743.41 sf 2.51936 acres +/-



DESIGN DATA & GENERAL NOTES

(1) Concrete strength Fcd 4000 p.s.i. @ 28 days. Density = 150 pcf.

(2) Cement - Portland Type III per ASTM C 150-02.

(3) Aggregate & Reinforcing per ASTM C 309 & C 184-02.

(4) Reinforcing per ASTM A 618 - Min. 1/2" cover.

(5) Top slab shall include 1/2" top rebar.

(6) 4" max. base & top thickness.

(7) Min. 1/2" of cover.

(8) Depending on use of tank, 2nd & 3rd outlet baffles may be required by code.

M3 Mayer Bros., Inc. 6304 Floor Road Elkhart, Maryland 21015 Tel: 410.796.1424 Fax: 410.796.1428 www.mayerbrosgroup.com

1,500 GALLON TANK (Non-Traffic) 2-Compartment

Stock Item

Weight = 16,750 lbs.

Eng. No. 1560-20 No Scale Aug 11, 2008

ABBREVIATIONS

B Basement floor elevation or Book
CLR County Land Record
F First floor elevation

G Garage floor elevation
P Plot
PB Plot Book

REVISIONS

REV.No.	DATE	BY	DESCRIPTION
1	2021-10-05	DRS/ebp	Per HCHD 2021-10-05
2	2021-10-28	DRS/ebp	Per HCHD 2021-10-13/HCPZ 2021-10-14
3	2021-11-04	DRS/ebp	Per HCHD 2021-11-03
4	2022-01-04	DRS/ebp	UPDATE NOTES & PLAN WITH EXISTING WELL & TAG NO
5	2022-01-05	DRS/ebp	PER HCHD 2022-01-05

D.R.S. & ASSOCIATES
LAND DESIGN CONSULTANTS
52 WINTERS STREET WESTMINSTER, MARYLAND 21157
410-848-4060 410-876-6040 F. 410-848-8818

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ON SITE SURVEY

Onsite Sewage Disposal System Design Plan
Slack Property
Lot 3B
Route 32
Howard County, Maryland 21784

OWNER
Viking Development Corporation
815 Windriver Dr
Sykesville MD 21784
410-977-2183

MAP 09 BLOOM 23 PARCEL 299
ACCOUNT NUMBER 304191
ZONED RR-DEO COUNTY LAND RECORD 20503 PAGE 475
3RD ELECTION DISTRICT

DATE: 2021-09-23 SHT.NO. : 1 OF 1

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