

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: 12/23/21 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 5/20890

APPROVAL DATE: 2/16/22 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 1414 HERITAGE RIDGE ROAD, WOODBINE, MD 21797

SUBDIVISION: LINDEN GROVE, PHASE 2 LOT: 39 TAX ID: 04-603261

CONTRACTOR: CHAVIS ENTERPRISES & SEPTIC SERVICES, LLC EMAIL: Ryan@chavisenterprises.com

CONTRACTOR ADDRESS: 23 EAST ELLENDALE, BELL AIR, MD 21014 PHONE: (410)838-3007

PROPERTY OWNER: TOLL MID-ATLANTIC LP COMPANY, INC EMAIL: nbrandenburg@tollbrothers.com

OWNER ADDRESS: 250 GIBRALTER ROAD, HORSHAM, PA 19044 PHONE: (410)381-3271

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Back River Pre-Cast, LLC

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

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>135</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>13</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 ONE CLEANOUT IN SHC, NEAR FOUNDATION. SET DISTRIBUTION BOX CLOSER TO TRENCHES THAN ILLUSTRATED.	

ISSUED BY: R BRICKER ISSUE DATE: 12/23/21 EXPIRATION DATE: 12/23/22

- 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 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

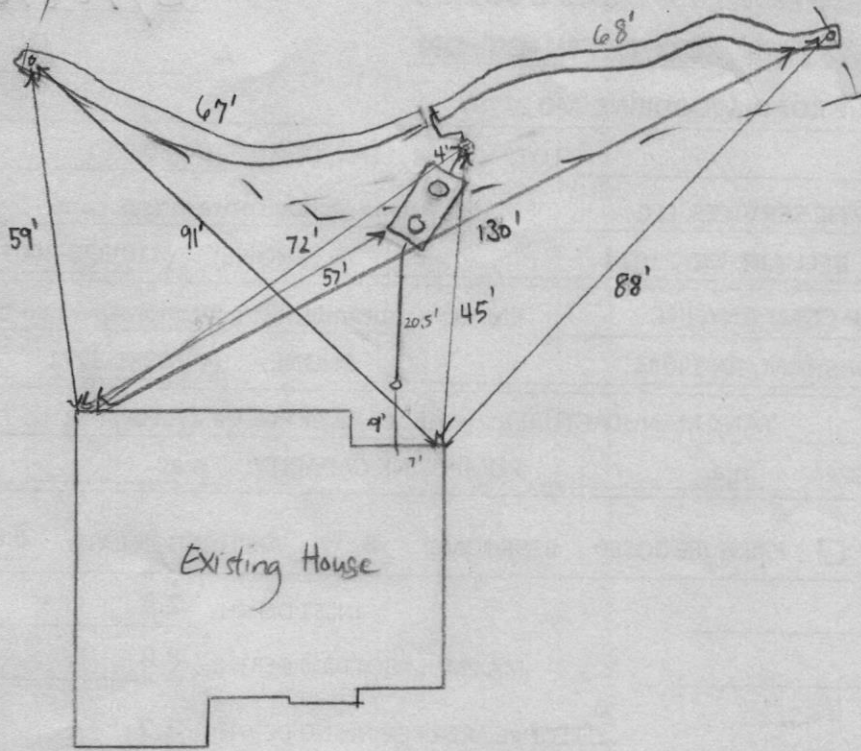
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

1414 Heritage Ridge Rd

NOT TO SCALE 1" ≈ 30'



Existing House

W

H0-20-0032

ROAD NAME
Heritage Ridge Rd

TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	2.5'	8'
NUMBER OF TRENCHES		2'
TOTAL LENGTH		135'
ABSORPTION AREA		405 sqft + side wall
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		yes

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	yes
MANUFACTURER	Babylon
CAPACITY	2000 GAL
SEAM LOC	top
TANK LID DEPTH	2' - 0.5'
BAFFLES	inlet + outlet
BAFFLE FILTER	-
MANHOLE LOC	inlet + outlet
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	yes
DATE ON LID	1-4-22

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	

PRE-CONSTRUCTION:

2/10/22 2x68' trenches were staked out on contour according to plan. Could not find stub out. Fall not confirmed. (ST) 2/14/22 SHC coming out above footer (below door). Plenty of fall. (SD)

INSTALLATION:

2/15/22 SHC, SL installed. Tank set and dbox set. One trench constructed. (ST) 2/16/22 - second trench completed, stone looks good, geotextile fabric in place, 2.5' inlet for 67' trench, dbox levelers look good, ok to backfill. (RR)



FINAL INSPECTOR

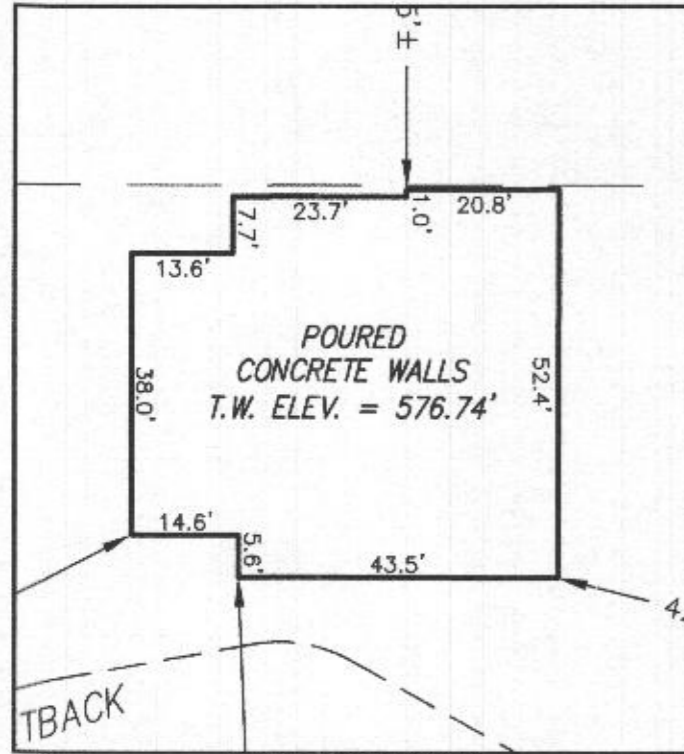
R. Reppert

DATE OF APPROVAL

2/16/22

LEGEND:

- BRL BUILDING RESTRICTION LINE
- ⊙ WELL LOCATION
- T.W. TOP OF WALL
- ELEV. ELEVATION
-  SEWAGE DISPOSAL AREA
-  WELL BOX AREA

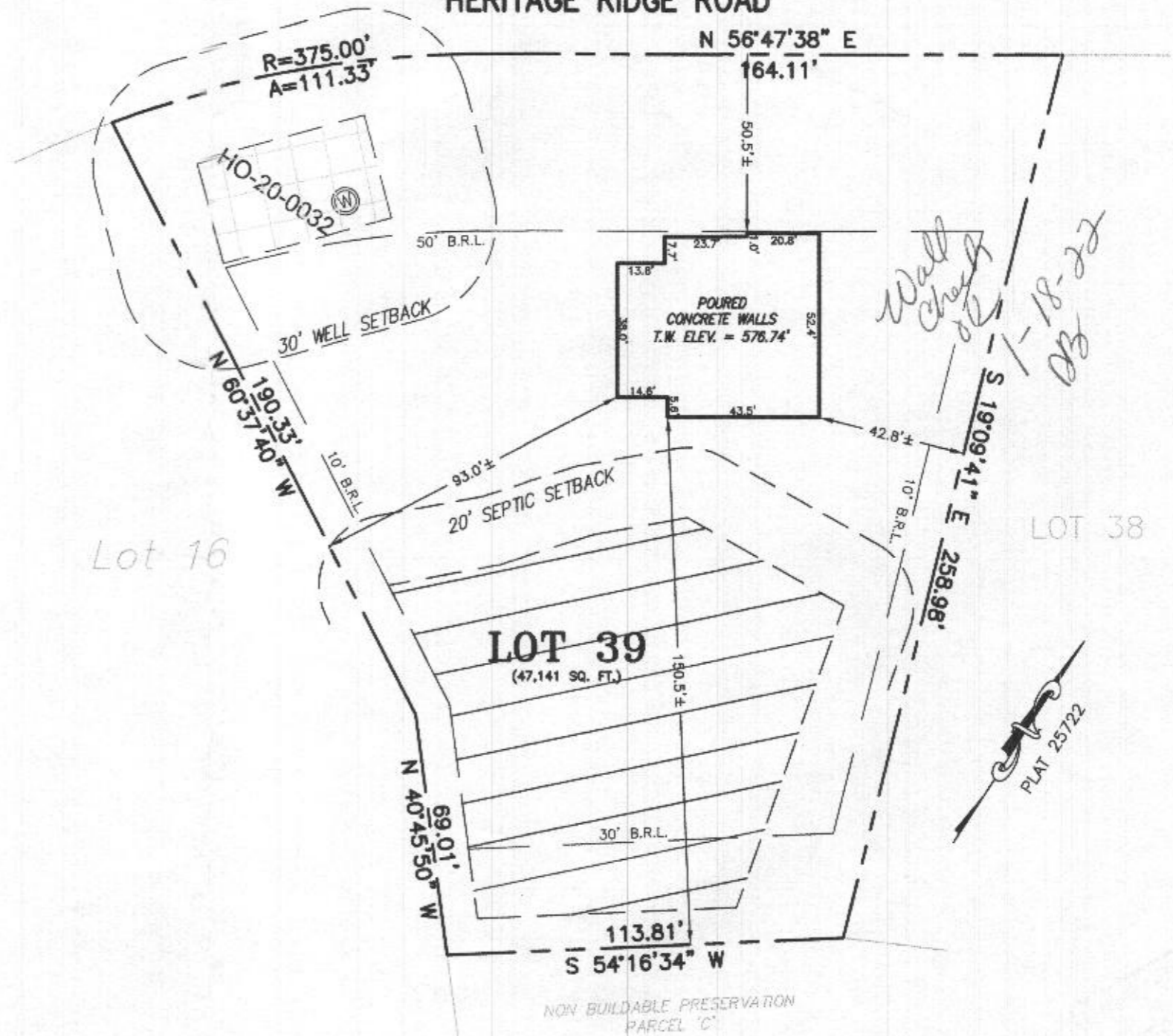


HOUSE ENLARGEMENT
NOT TO SCALE

WELL NUMBER: HO-20-0032
 ADDRESS: 1414 HERITAGE RIDGE ROAD
 WOODBINE, MD 21797
 PERMIT NO: B21002654

BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPEMENT PLAN
 SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.

HERITAGE RIDGE ROAD



SURVEYOR'S CERTIFICATE

THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHT-OF-WAYS, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED HEREON. BEARINGS AND DISTANCES OF THE PROPERTY BOUNDARY LINES SHOWN HEREON ARE PER AVAILABLE RECORDS AND HAVE NOT BEEN FIELD VERIFIED.

THIS IS NOT A "LOCATION DRAWING" AND IS NOT TO BE USED FOR SETTLEMENT PURPOSES.

SIGNATURE: *Michael Joe Boyce* 21328 12/14/21
 MD. LIC NO. DATE

WALLCHECK
 LOT 39
LINDEN GROVE
 LIBER 15899, FOLIO 246
 PLAT NO. 25722
 ELECTION DISTRICT No. 4
 HOWARD COUNTY, MARYLAND

ESE CONSULTANTS

ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL

ESE Consultants, Inc.
 6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046
 T: 410-872-9105

DATE: 12/14/2021 SCALE: 1" = 40' FILE: WC LOT 39
 CHK'D: M.J.B. JOB NO: 4683 DRAWN: R.C.K.

HOUSE OPTIONS:

HOUSE TYPE: DUMONT (CRAFTSMAN)

- TWO CAR SIDE ENTRY GARAGE
- FINISHED LOWER LEVEL
- WALK-OUT BASEMENT
- ADDITIONAL WALK-IN CLOSET
- ADD 1" TO HEIGHT OF BASEMENT FOUND. WALLS
- OPTIONAL DROP ZONE
- OUTDOOR LIVING DECK - WALK-OUT
- ADDITIONAL BATH FOR FINISHED LOWER LEVEL
- WET BAR ROUGH-IN IN BASEMENT

- OPTION No. 012
- OPTION No. 013
- OPTION No. 017
- OPTION No. 030
- OPTION No. 070
- OPTION No. 263081
- OPTION No. 263169
- OPTION No. 383
- OPTION No. 90039003

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. 21328, EXPIRATION DATE 1/8/23.

INITIAL TRENCH DATA

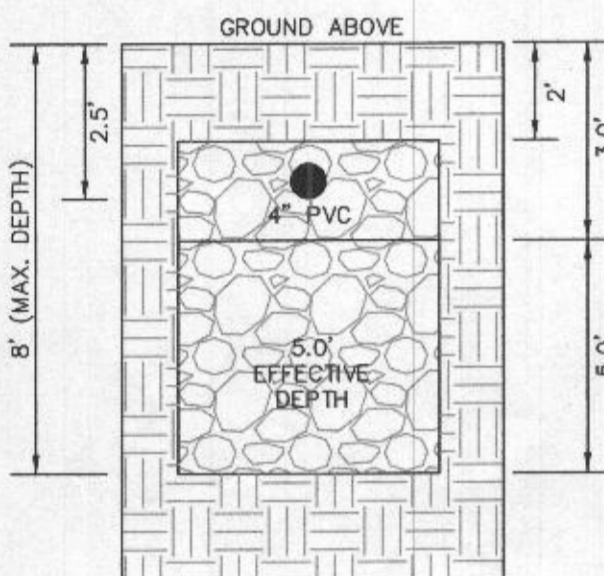
BOTTOM MAX. DEPTH (8.0')

TRENCH 1 (T1): 67.50 L.F.

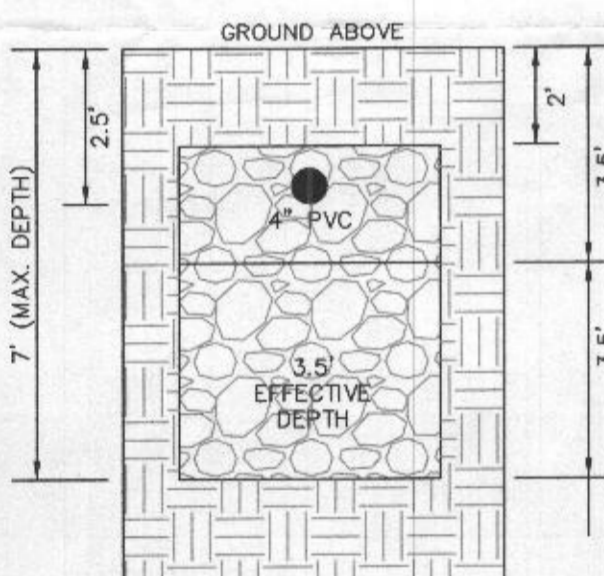
GROUND ABOVE = 565.54'
INV. IN = 563.04'
BOTTOM TRENCH = 557.5'

TRENCH 2 (T2): 67.50 L.F.

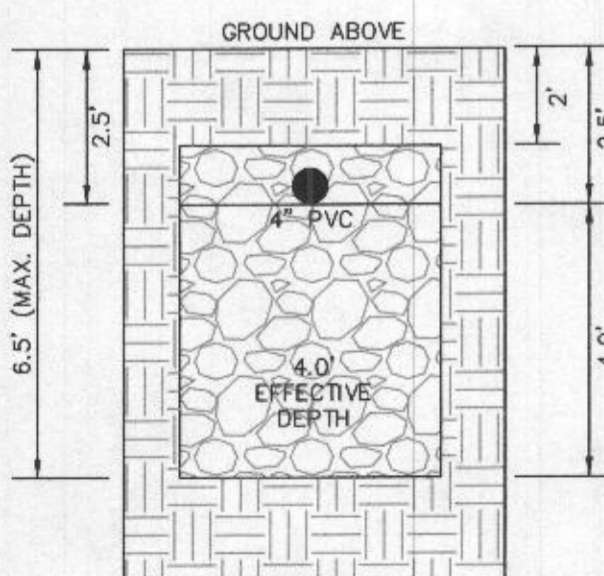
GROUND ABOVE = 565.54'
INV. IN = 563.04'
BOTTOM TRENCH = 557.5'



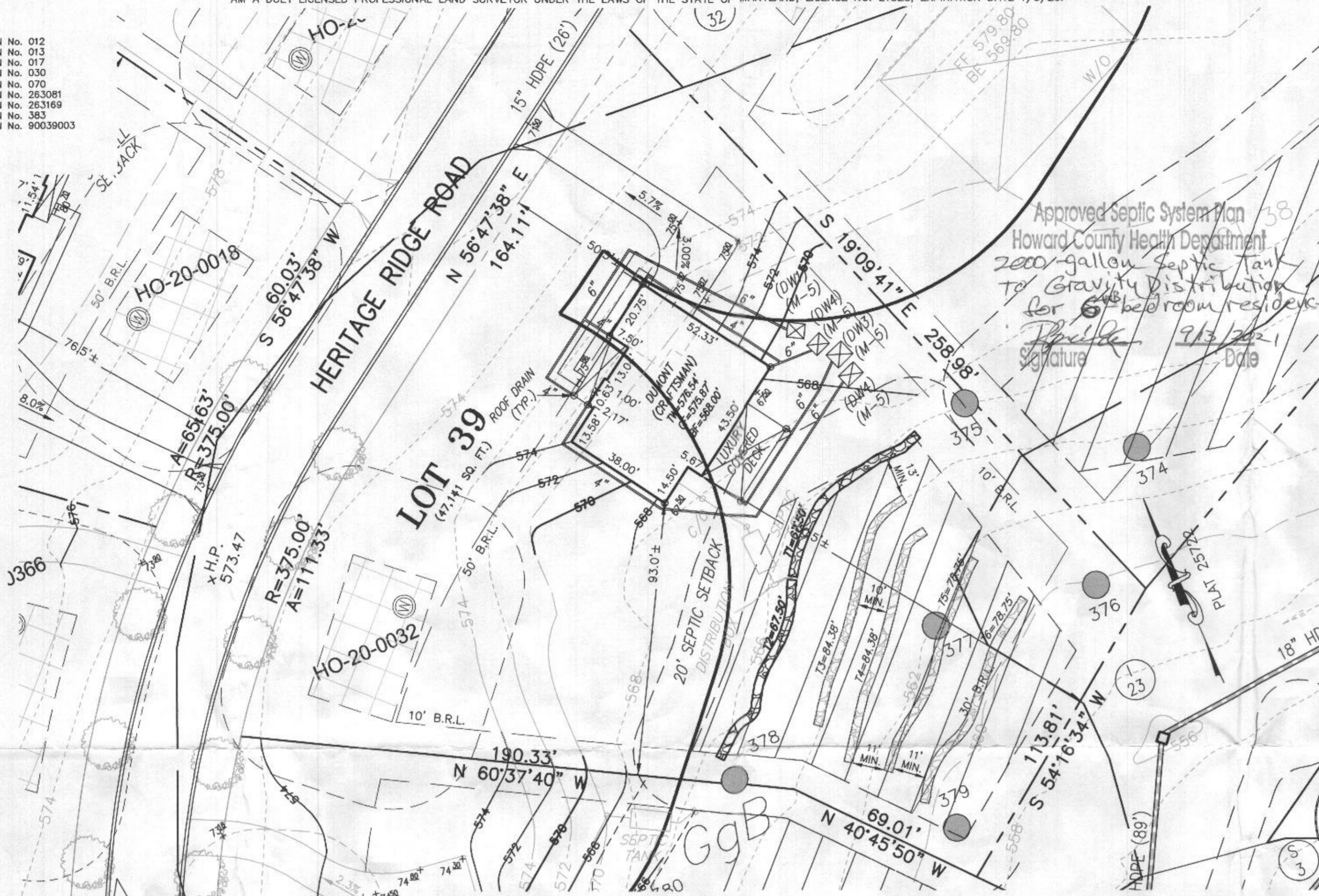
INITIAL SYSTEM TRENCH DETAIL (T1) AND (T2) (NOT TO SCALE)



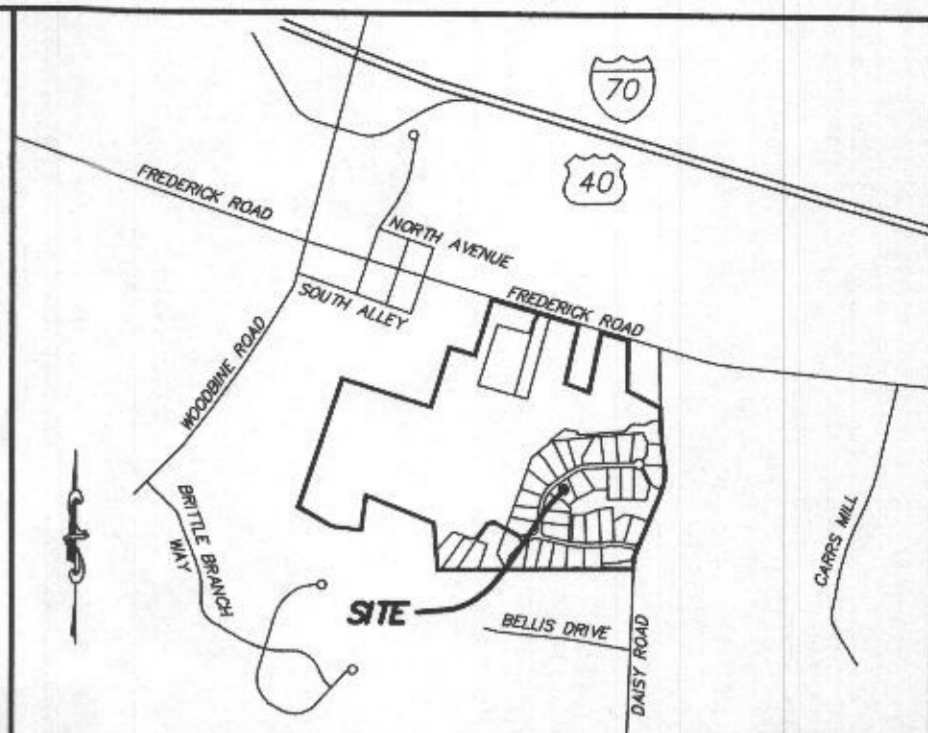
1ST REPLACEMENT SYSTEM TRENCH DETAIL (T3) AND (T4) (NOT TO SCALE)



2ND REPLACEMENT SYSTEM TRENCH DETAIL (T5) AND (T6) (NOT TO SCALE)



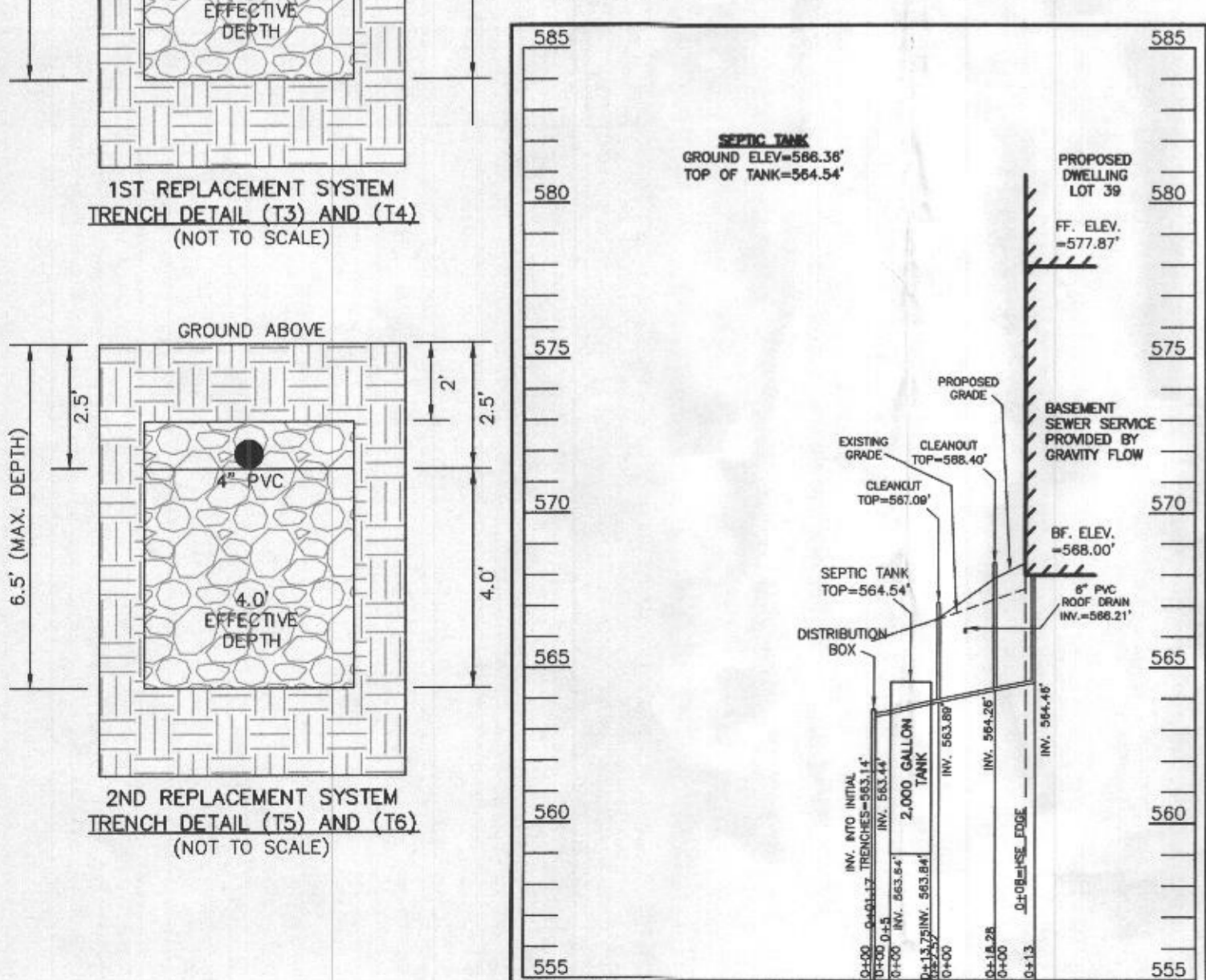
Approved Septic System Plan
Howard County Health Department
2000-gallon Septic Tank
To Gravity Distribution
for 6 bedroom residence
Signature: [Signature]
Date: 9/13/2021



VICINITY MAP
1" = 1000'

GENERAL NOTES:

- THESE AREAS DESIGNATE A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS UNTO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
- 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.
- ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FEET.
- ANY CHANGES 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 THREE (3) FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- THE EXISTING TOPOGRAPHY SHOWN HEREON IS FROM HOWARD COUNTY GIS, 2' CONTOUR INTERVAL AND FIELD VERIFIED BY FISHER, COLLINS AND CARTER, INC.



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

- LEGEND:**
- BRL BUILDING RESTRICTION LINE
 - W WELL LOCATION
 - T.W. TOP OF WALL
 - G.F. GARAGE FLOOR
 - B.F. BASEMENT FLOOR
 - PASSED PERC LOCATION
 - FAILED PERC LOCATION
 - SEWAGE DISPOSAL AREA
 - WELL BOX AREA
 - PROPOSED TREE
 - PROPOSED TREE
 - PROPOSED TREE

SEWAGE DISPOSAL SYSTEM DATA (6 BDRM)

- PROPOSED INVERT AT FOUNDATION WALL: 565.04'
- EX. GRADE OVER TANK: 566.36'
PROPOSED GRADE OVER TANK: 566.36'
INVERT IN: 563.84' INVERT OUT: 563.84'
 - DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 565.88'
PROPOSED GRADE OVER TANK: 565.88'
INVERT IN: 563.44' INVERT OUT: X563.14'
 - INITIAL TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD ÷ 0.8 APP. RATE = 1,125 SF
USE 3' WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
13' MIN. SPACING BETWEEN TRENCH EDGES
1,125 SF ÷ 3' WIDTH = 375 LF x 0.36 (SIDEWALL REDUCION) = 135 LF MIN.
USE 2 67.50' LONG TRENCHES = 135 LF
 - 1ST REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD ÷ 0.8 APP. RATE = 1,125 SF
USE 3' WIDE TRENCH WITH 60" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
1,125 SF ÷ 3' WIDTH = 375 LF x 0.45 (SIDEWALL REDUCION) = 168.75 LF MIN.
USE 2 84.38' LONG TRENCHES = 168.75 LF
 - 2ND REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD ÷ 0.8 APP. RATE = 1,125 SF
USE 3' WIDE TRENCH WITH 48" GRAVEL BELOW PIPE
11' MIN. SPACING BETWEEN TRENCH EDGES
1,125 SF ÷ 3' WIDTH = 375 LF x 0.42 (SIDEWALL REDUCION) = 157.50 LF MIN.
USE 2 78.75' LONG TRENCH = 157.50 LF



SOILS LEGEND

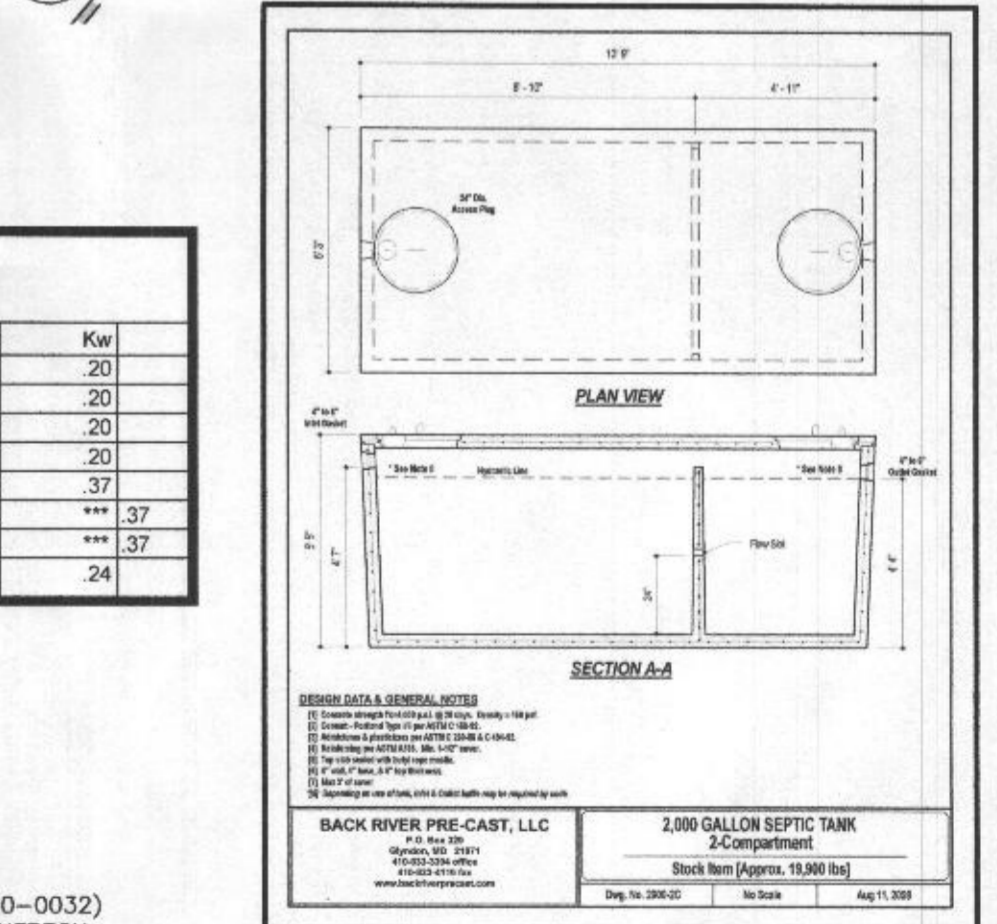
SOIL	NAME	CLASS	Kw
BrD	BRINKLOW CHANNERY LOAM, 15 TO 25 PERCENT SLOPES	B	.20
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	.20
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	.20
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	.20
*GmA	GLENVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES	C	.37
*GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	***.37
*GnB	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	***.37
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	.24

- NOTES:**
- * HYDRIC SOILS AND / OR CONTAINS HYDRIC INCLUSIONS
 - ** MAY CONTAIN HYDRIC INCLUSIONS
 - *** DENOTES ERODIBLE SOILS

WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR LOT 39 (TAG NO. HO-20-0032) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 39
LINDEN GROVE
LIBER 15899, FOLIO 246
PLAT NO. 25722
ELECTION DISTRICT No. 4
HOWARD COUNTY, MARYLAND
ADDRESS: 1414 HERITAGE RIDGE ROAD
WOODBINE, MARYLAND 21797



2,000 GALLON SEPTIC TANK
2-Compartment
Stock Item (Approx. 13,500 lbs)
Eng. No. 258-02 No Scale Aug 11, 2021

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ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL
ESE Consultants, Inc.
7164 Columbia Gateway Drive • Suite 230 • Columbia, MD 21046
T: 410-872-9105

DATE: 07/11/2021 SCALE: 1"= 30' FILE: OSDS LOT 39_rev1
CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.