

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: 5/24/22 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 571564

APPROVAL DATE: 6/21/22 **PERMIT: CONSTRUCTION**

A

PROPERTY ADDRESS: 1437 HERITAGE RIDGE ROAD, WOODBINE, MD 21797

SUBDIVISION: LINDEN GROVE, PHASE 2

LOT: 29

TAX ID:

04-603251

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: 5

APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>104</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5.0</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 ONE CLEANOUT IN SHC.	

ISSUED BY: R BRICKER

ISSUE DATE: 5/25/22

EXPIRATION DATE: 5/25/23

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

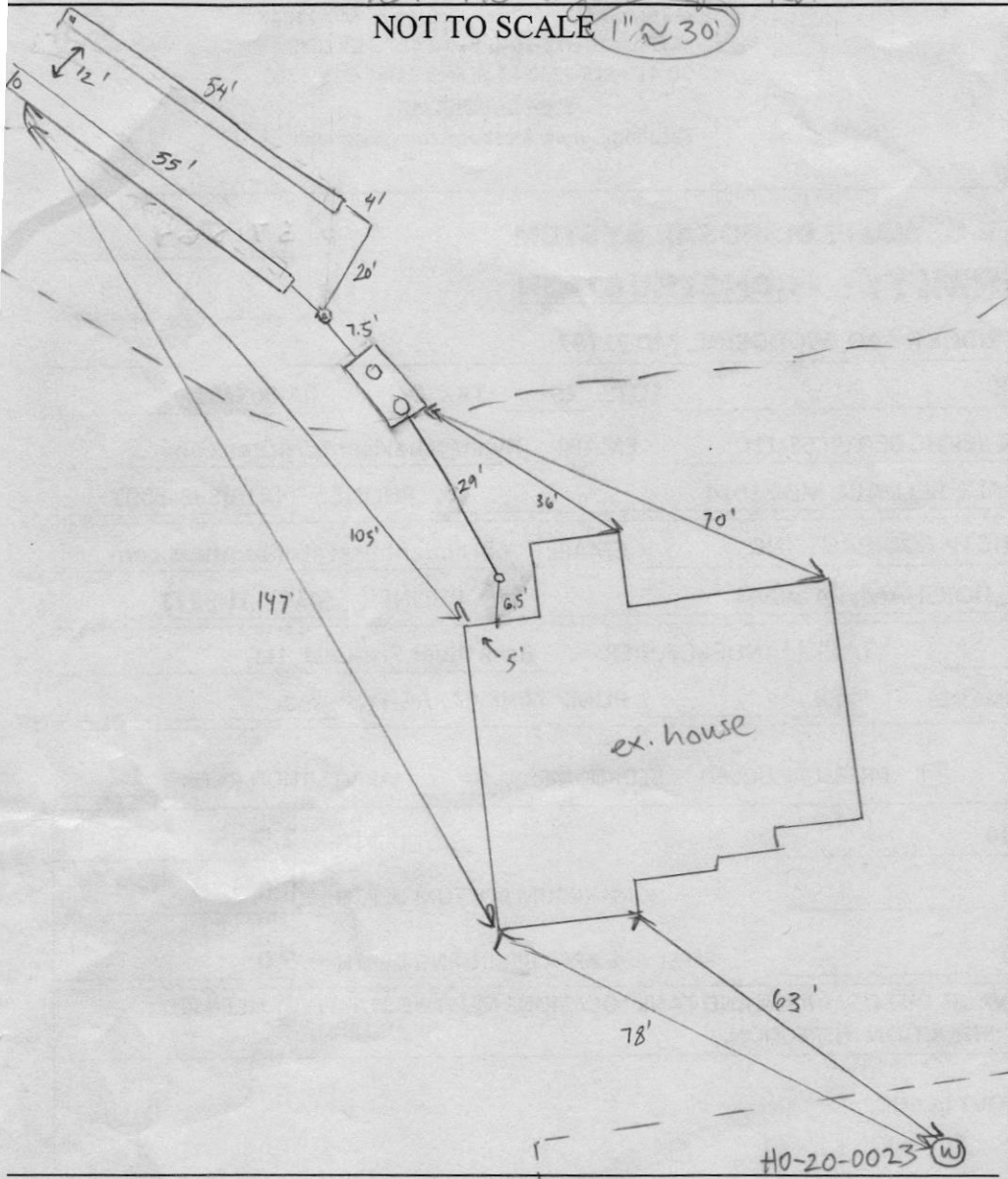
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

1437 Heritage Ridge Rd

NOT TO SCALE 1" ≈ 30'



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	25'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		109'
ABSORPTION AREA		327 sq ft + sidewalk
DISTRIBUTION BOX LEVEL		Speedy
DISTRIBUTION BOX BAFFLE		cement
DISTRIBUTION BOX PORT		PVC

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL yes
 MANUFACTURER Babylon
 CAPACITY 2000 GAL
 SEAM LOC top
 TANK LID DEPTH 2.5'
 BAFFLES inlet + outlet
 BAFFLE FILTER -
 MANHOLE LOC inlet + outlet
 6" PORT LOC -
 WATERTIGHT TEST -
 SLOTTED yes
 DATE ON LID 4-19-22

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 _____

ROAD NAME

Heritage Ridge Rd

PRE-CONSTRUCTION:

6/8/22 2x55' trenches staked out on contour according to plan (S)

INSTALLATION: 6/17/22 ST constructed, tank and d-box set. 1x54' trench complete. Re-insp for baffles. (S) 6/21/22 Baffles installed, d-box leveled and 2nd trench complete. (S)

FINAL INSPECTOR

Devan Thomas

DATE OF APPROVAL

6/21/22

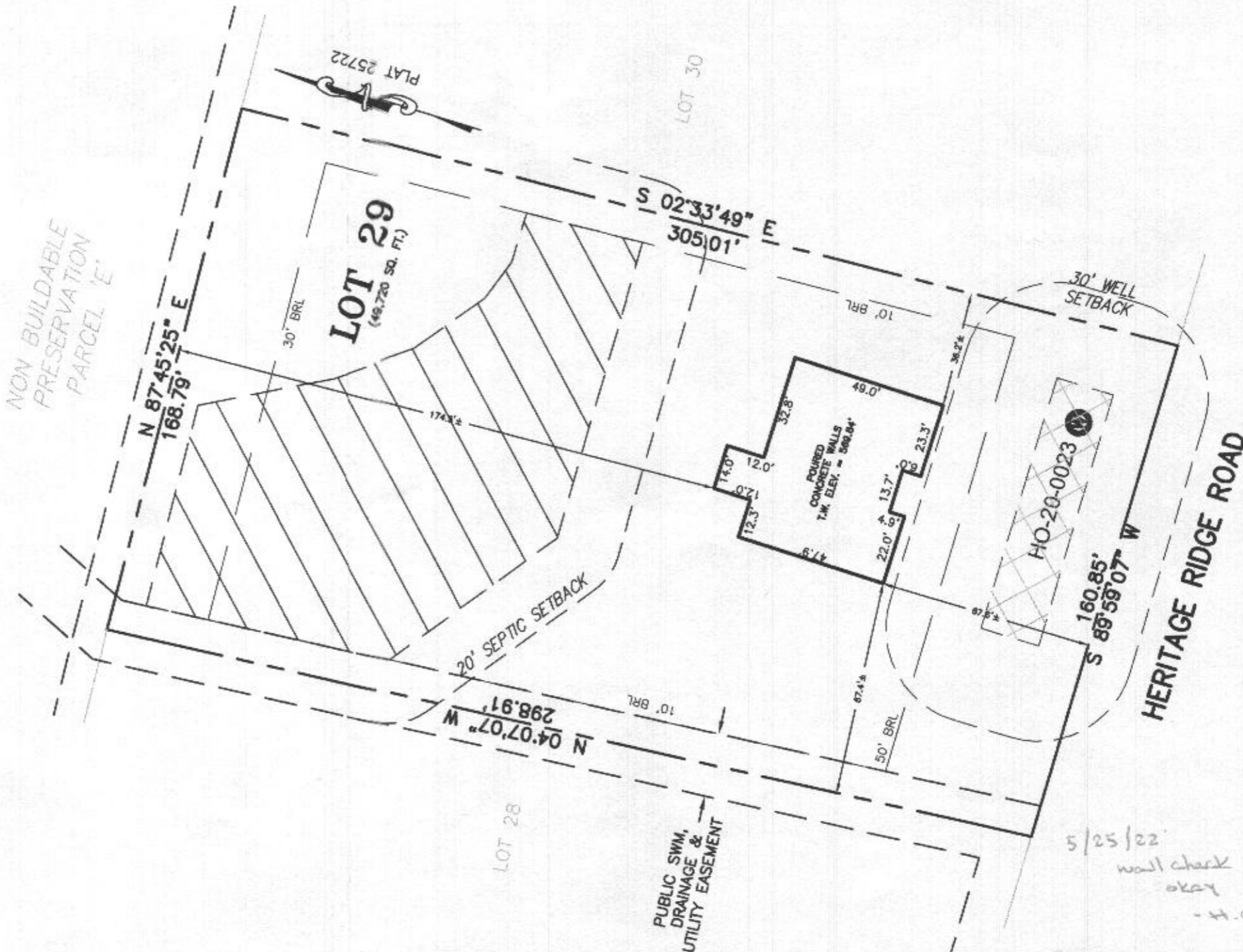
LEGEND:
 BRL BUILDING RESTRICTION LINE
 T.W. TOP OF WALL
 ELEV. ELEVATION



HOUSE ENLARGEMENT
NOT TO SCALE

WELL NUMBER: HO-20-0023
ADDRESS: 1437 HERITAGE RIDGE ROAD
 WOODBINE, MD 21797
PERMIT NO.: B21002810

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



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 03/29/22
 MD. LIC NO. DATE

WALLCHECK
 LOT 29
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: 03/29/2022 SCALE: 1" = 40' FILE: WC LOT 29
 CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.

WS-SP-APP-22-00133



HOUSE OPTIONS:

HOUSE TYPE: RENWICK (MODERN FARMHOUSE)

TWO CAR SIDE ENTRY GARAGE
WALK-OUT BASEMENT
PREP KITCHEN

OPTION No. 012
OPTION No. 017
OPTION No. 263158

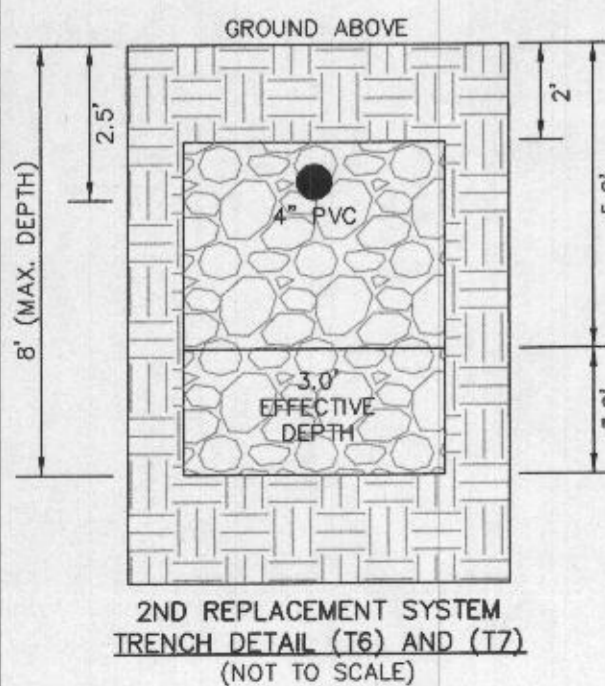
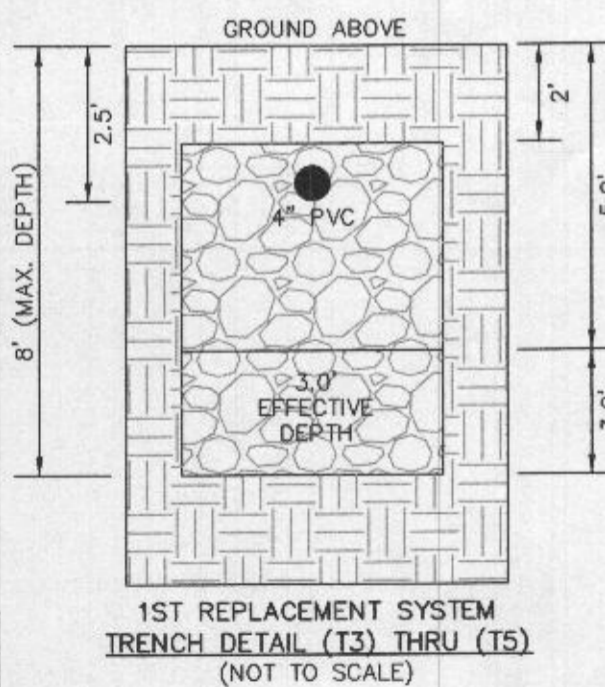
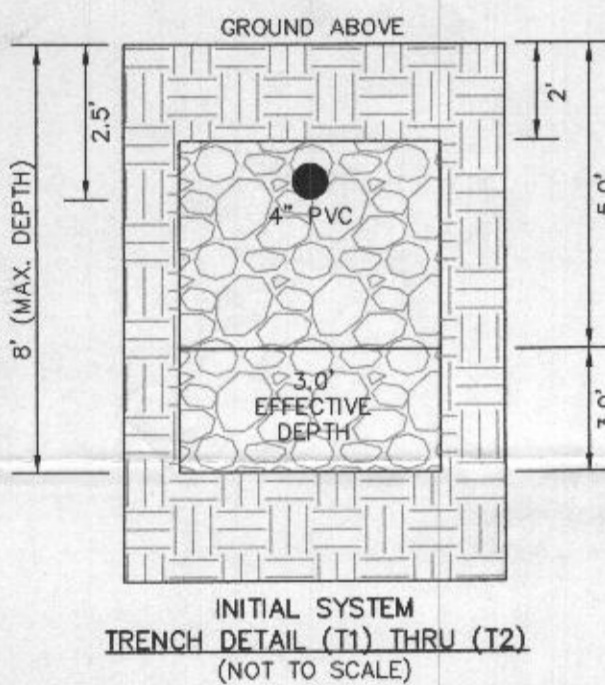
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/23.

INITIAL TRENCH DATA:

BOTTOM MAX. DEPTH (8.0')

TRENCH 1 (T1): 52.09 LF.
GROUND ABOVE = 557.81'
INV. IN = 555.31'
BOTTOM TRENCH = 549.81'

TRENCH 2 (T2): 52.09 LF.
GROUND ABOVE = 557.00'
INV. IN = 554.50'
BOTTOM TRENCH = 549.00'



GENERAL NOTES:

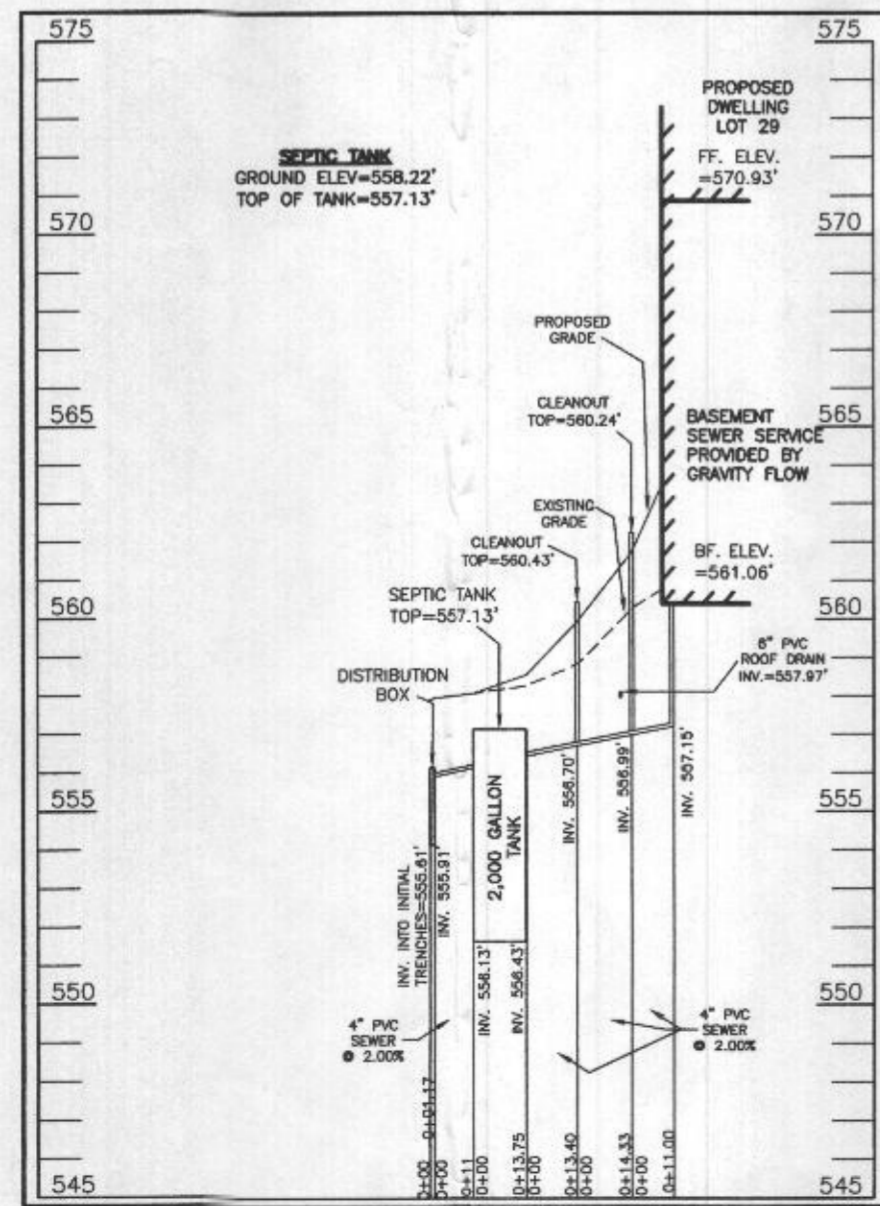
- THESE AREAS DESIGNATE A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION 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' FOOT.
- 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.

- 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



SEWAGE DISPOSAL SYSTEM DATA (5 BDRM):

- PROPOSED INVERT AT FOUNDATION WALL: 557.15'
- EX. GRADE OVER TANK: 558.17'
PROPOSED GRADE OVER TANK: 558.22'
INVERT IN: 556.43' INVERT OUT: 556.13'
 - DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 557.93'
PROPOSED GRADE OVER TANK: 557.93'
INVERT IN: 555.91' INVERT OUT: 555.61'
 - INITIAL TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)
750 GPD + 1.2 APP. RATE = 625.00 SF
USE 3' WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
625.00 SF + 3' WIDTH = 208.33 LF x 0.50 (SIDEWALL REDUCTION) = 104.17 LF MIN.
USE 2 52.25' LONG TRENCHES = 104.50 LF
 - 1ST REPLACEMENT TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)
750 GPD + 0.8 APP. RATE = 937.50 SF
USE 3' WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
937.50 SF + 3' WIDTH = 312.50 LF x 0.50 (SIDEWALL REDUCTION) = 156.25 LF MIN.
USE 3 52.25' LONG TRENCHES = 156.75 LF
 - 2ND REPLACEMENT TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)
750 GPD + 0.8 APP. RATE = 937.50 SF
USE 3' WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
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937.50 SF + 3' WIDTH = 312.50 LF x 0.50 (SIDEWALL REDUCTION) = 156.25 LF MIN.
USE 2 78.25' LONG TRENCHES = 156.50 LF



SOILS LEGEND

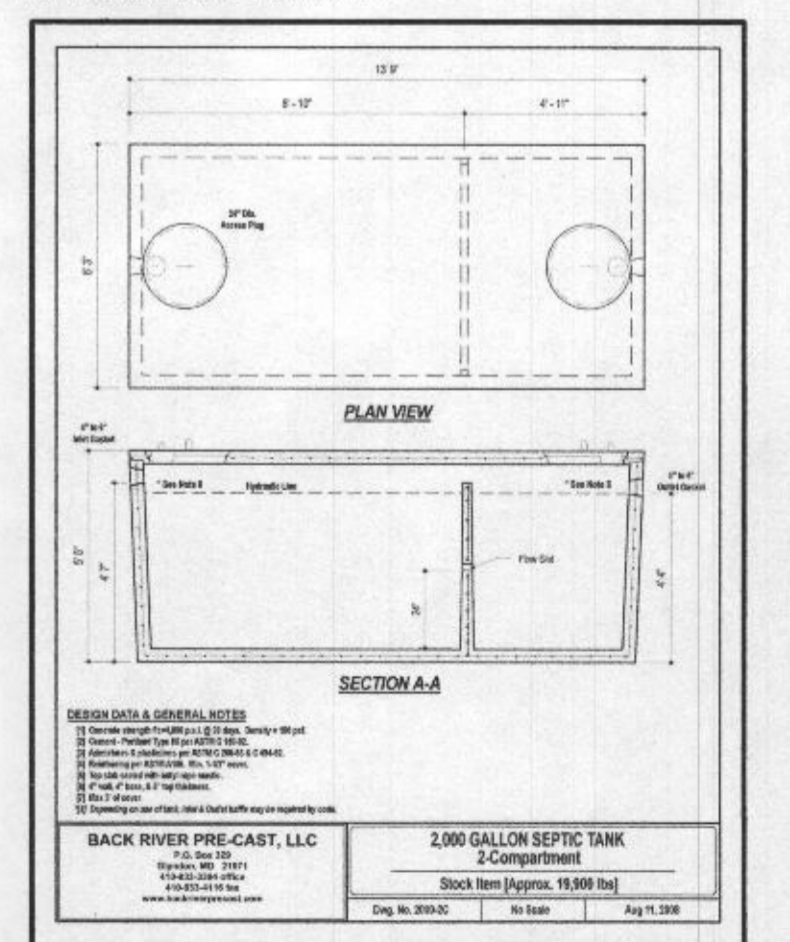
SOIL	NAME	CLASS	Kw
BrD	BRINKLOW CHANNERY LOAM, 15 TO 25 PERCENT SLOPES	B	.20
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	.20
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	.20
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	.20
*GmA	GLENNVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES	C	.37
*GmB	GLENNVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	.37
*GmC	GLENNVILLE-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 29 (TAG NO. HO-20-0023) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 29
LINDEN GROVE
LIBER 15899, FOLIO 246
PLAT NO. 25722
ELECTION DISTRICT No. 4
HOWARD COUNTY, MARYLAND
ADDRESS: 1437 HERITAGE RIDGE ROAD
WOODBINE, MARYLAND 21797



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DATE: 03/14/2021 SCALE: 1"= 30' FILE: OSDS LOT 29_rev1
CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P./R.C.K.

HOUSE OPTIONS:

HOUSE TYPE: RENWICK (MODERN FARMHOUSE)

TWO CAR SIDE ENTRY GARAGE
WALK-OUT BASEMENT
PREP KITCHEN

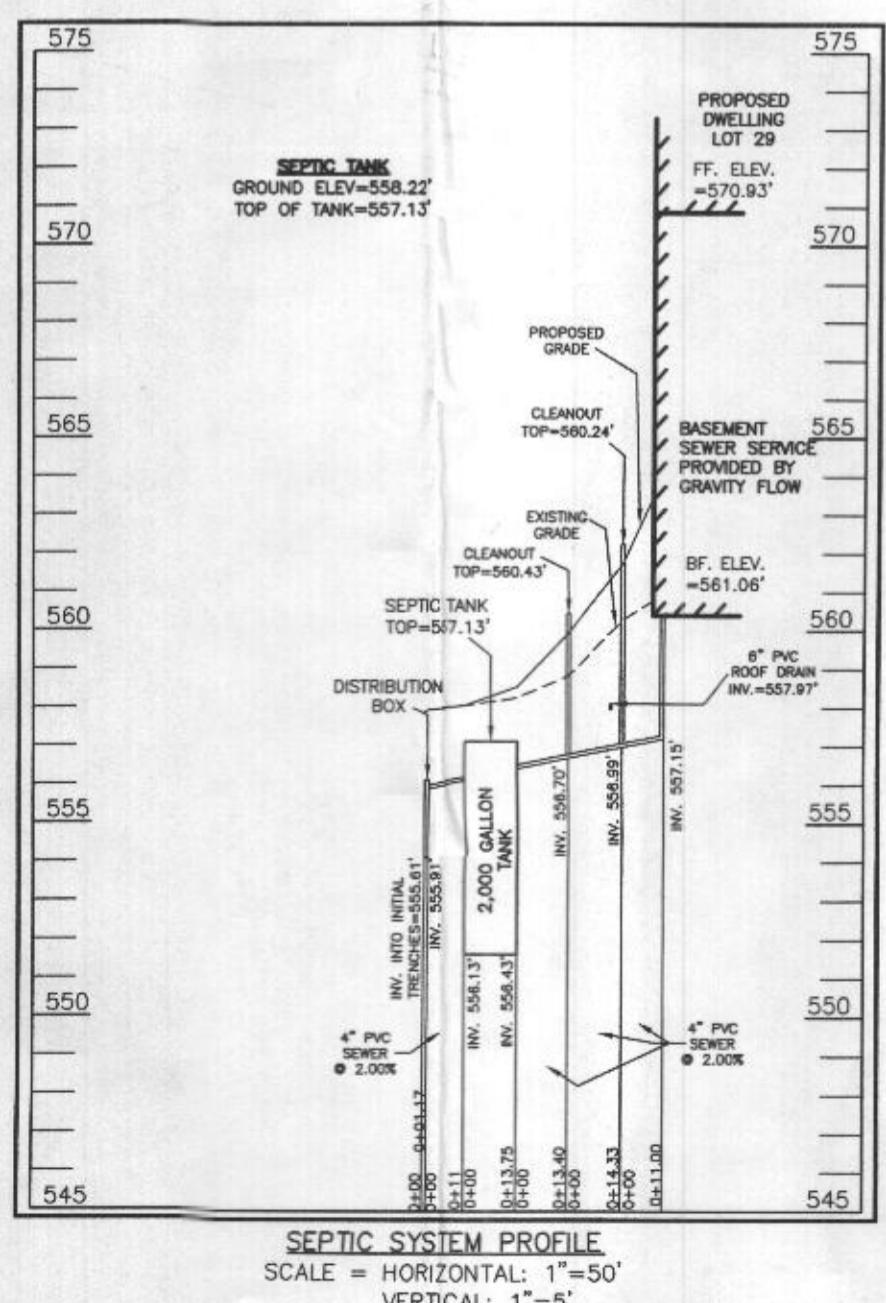
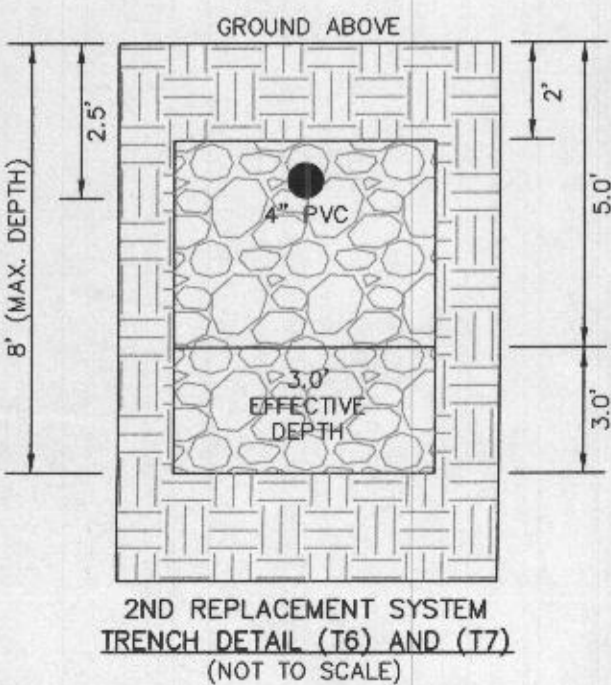
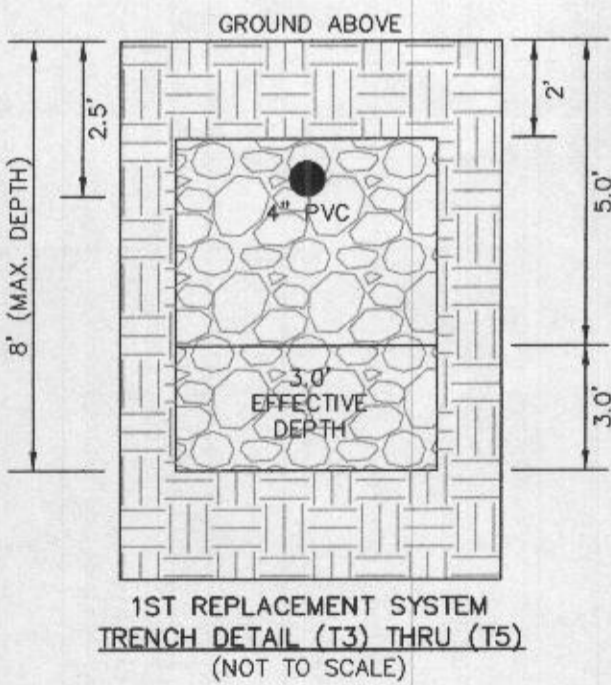
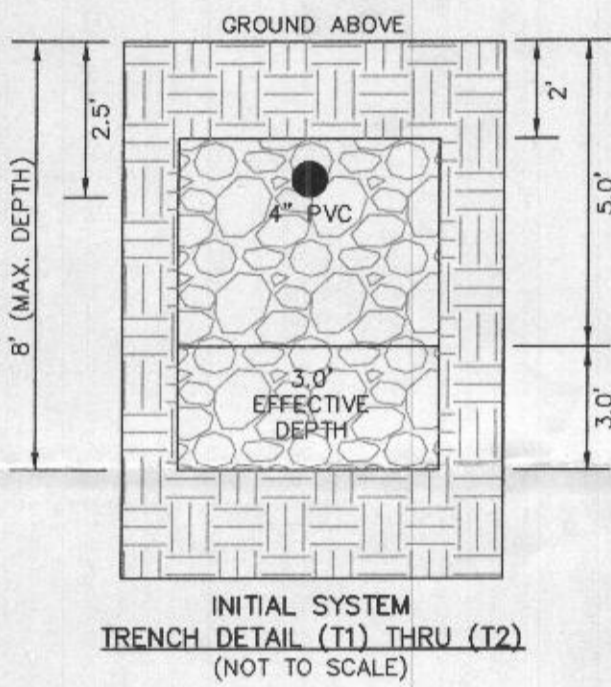
OPTION No. 012
OPTION No. 017
OPTION No. 263158

INITIAL TRENCH DATA:

BOTTOM MAX. DEPTH (8.0')

TRENCH 1 (T1): 52.09 L.F.
GROUND ABOVE = 557.81'
INV. IN = 555.31'
BOTTOM TRENCH = 549.81'

TRENCH 2 (T2): 52.09 L.F.
GROUND ABOVE = 557.00'
INV. IN = 554.50'
BOTTOM TRENCH = 549.00'



- LEGEND:**
- BRL BUILDING RESTRICTION LINE
 - WELL LOCATION
 - T.W. TOP OF WALL
 - G.F. GARAGE FLOOR
 - B.F. BASEMENT FLOOR
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 - SEWAGE DISPOSAL AREA
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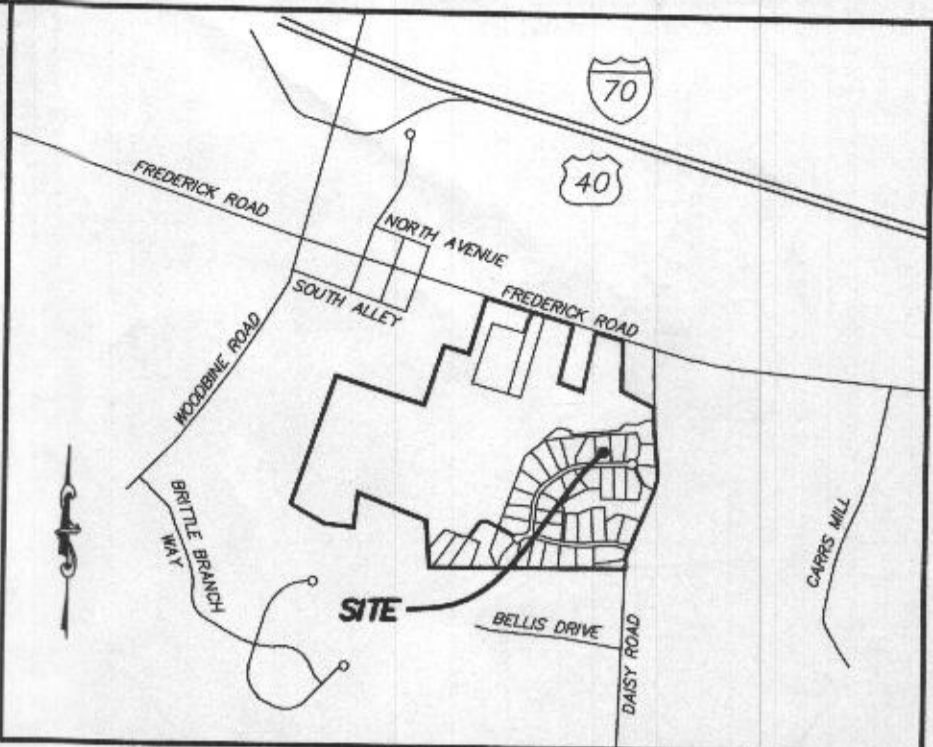
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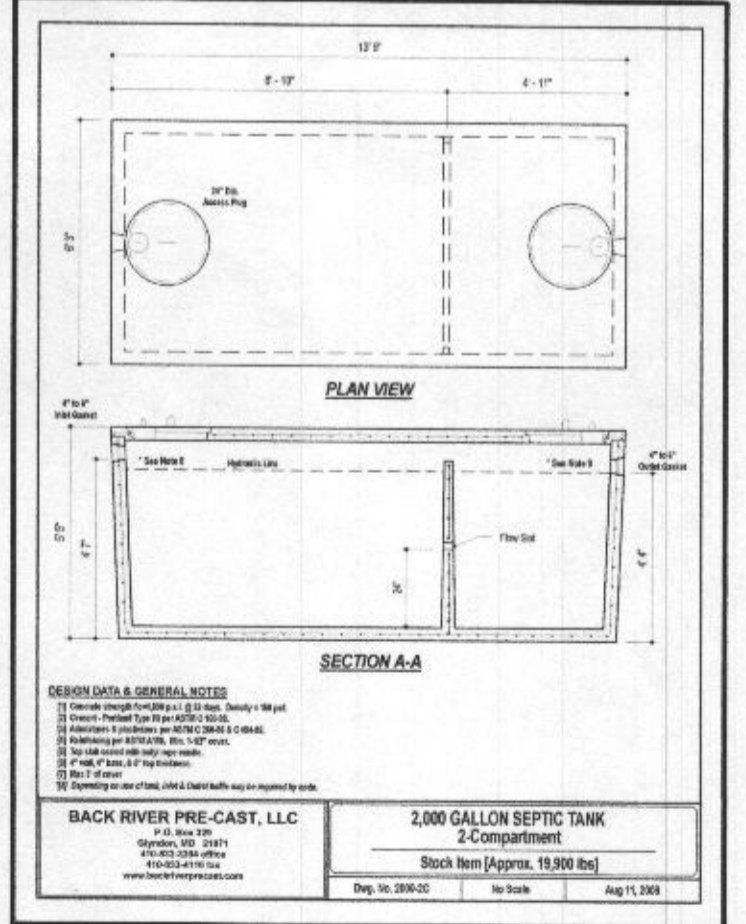
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LIBER 15899, FOLIO 246
PLAT NO. 25722
ELECTION DISTRICT No. 4
HOWARD COUNTY, MARYLAND
ADDRESS: 1437 HERITAGE RIDGE ROAD
WOODBINE, MARYLAND 21797



VICINITY MAP
1" = 1000'

GENERAL NOTES:

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DATE: 03/14/2021 SCALE: 1" = 30' FILE: OSDS LOT 29_rev1
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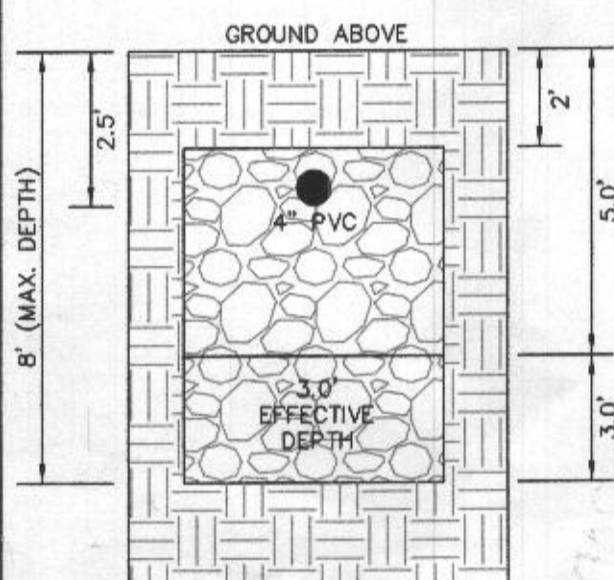
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 PREP KITCHEN

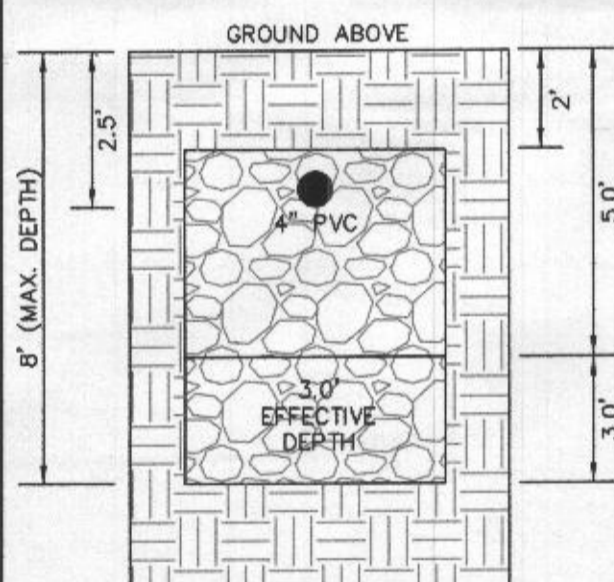
OPTION No. 012
 OPTION No. 017
 OPTION No. 263156

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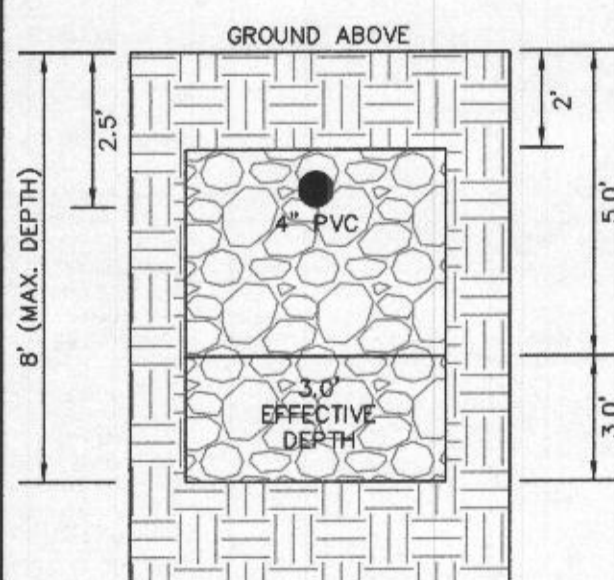
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 GROUND ABOVE = 556.80'
 INV. IN = 554.30'
 BOTTOM TRENCH = 548.80'



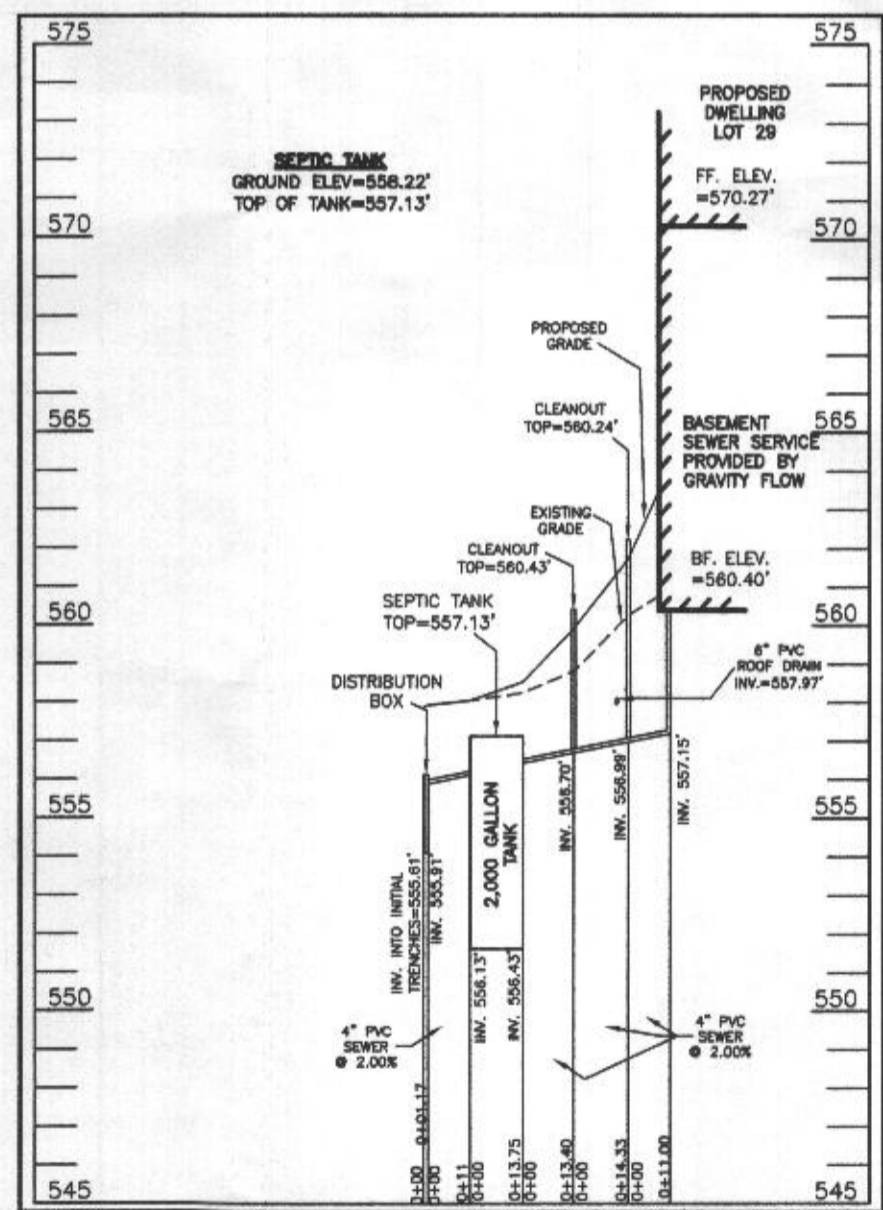
INITIAL SYSTEM
 TRENCH DETAIL (T1) THRU (T2)
 (NOT TO SCALE)



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



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



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

- LEGEND:**
- BRL BUILDING RESTRICTION LINE
 - WELL LOCATION
 - T.W. TOP OF WALL
 - G.F. GARAGE FLOOR
 - B.F. BASEMENT FLOOR
 - PASSSED PERC LOCATION
 - FAILED PERC LOCATION
 - SEWAGE DISPOSAL AREA
 - WELL BOX AREA
 - PROPOSED TREE
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SEWAGE DISPOSAL SYSTEM DATA (5 BDRM)

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- EX. GRADE OVER TANK: 558.17'
 PROPOSED GRADE OVER TANK: 558.22'
 INVERT IN: 556.43' INVERT OUT: 556.13'
 - DISTRIBUTION BOX
 EXISTING GRADE OVER TANK: 557.93'
 PROPOSED GRADE OVER TANK: 557.93'
 INVERT IN: 555.91' INVERT OUT: 555.61'
 - INITIAL TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)
 750 GPD + 1.2 APP. RATE = 825.00 SF
 USE 3" WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
 10' MIN. SPACING BETWEEN TRENCH EDGES
 625.00 SF + 3' WIDTH = 208.33 LF x 0.50 (SIDEWALL REDUCION) = 104.17 LF MIN.
USE 2 52.09' LONG TRENCHES = 104.17 LF
 - 1ST REPLACEMENT TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)
 750 GPD + 0.8 APP. RATE = 937.50 SF
 USE 3" WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
 13' MIN. SPACING BETWEEN TRENCH EDGES
 937.50 SF + 3' WIDTH = 312.50 LF x 0.50 (SIDEWALL REDUCION) = 156.25 LF MIN.
USE 2 78.13' LONG TRENCHES = 156.25 LF
 - 2ND REPLACEMENT TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)
 750 GPD + 0.8 APP. RATE = 937.50 SF
 USE 3" WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
 12' MIN. SPACING BETWEEN TRENCH EDGES
 937.50 SF + 3' WIDTH = 312.50 LF x 0.50 (SIDEWALL REDUCION) = 156.25 LF MIN.
USE 2 78.13' LONG TRENCHES = 156.25 LF



SOILS LEGEND

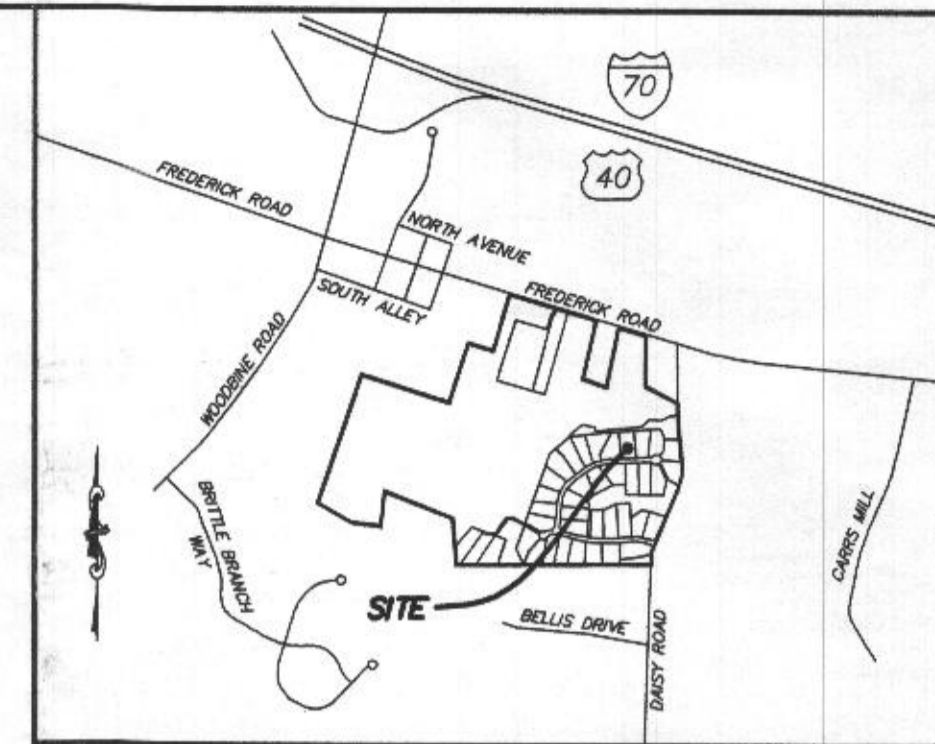
SOIL	NAME	CLASS	Kw
BrD	BRINKLOW CHANNERY LOAM, 15 TO 25 PERCENT SLOPES	B	.20
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	.20
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	.20
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	.20
*GmA	GLENVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES	C	.37
*GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	.37
*GmC	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 29 (TAG NO. HO-20-0023) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

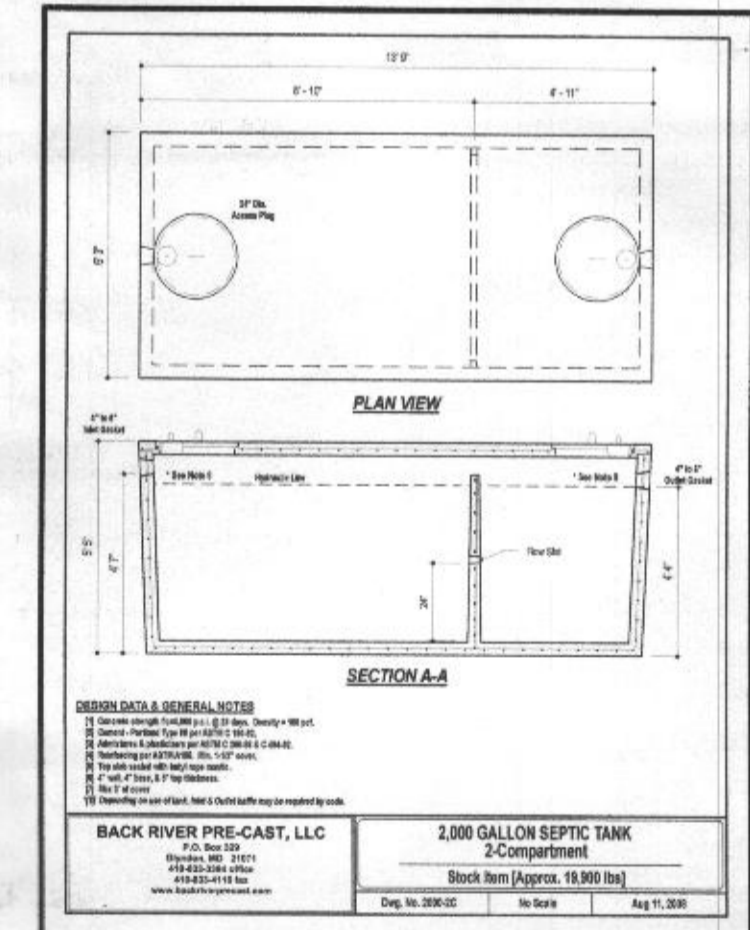
ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 29
LINDEN GROVE
 LIBER 15899, FOLIO 246
 PLAT NO. 25722
 ELECTION DISTRICT No. 4
 HOWARD COUNTY, MARYLAND
 ADDRESS: 1437 HERITAGE RIDGE ROAD
 WOODBINE, MARYLAND 21797



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' FOOT.
- 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.



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 ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL

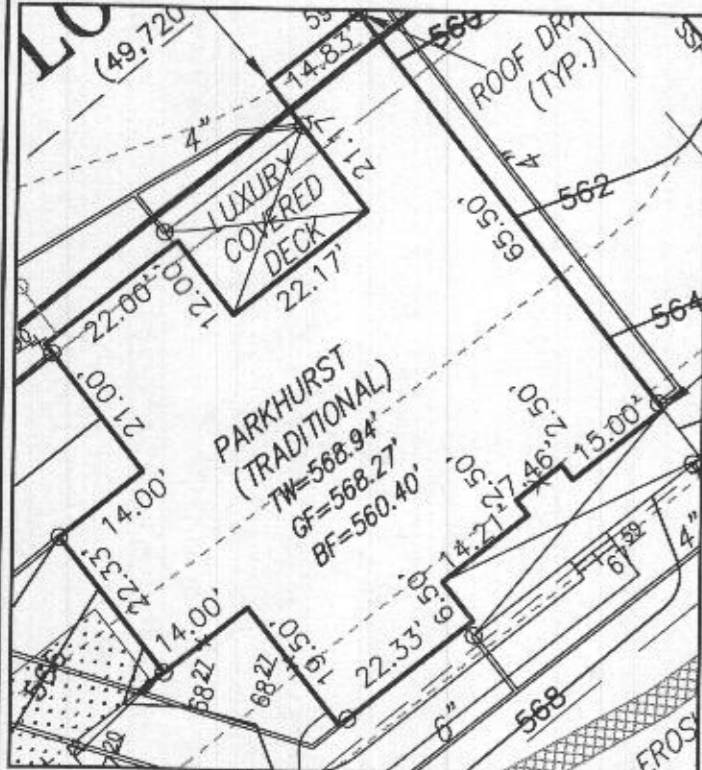
ESE Consultants, Inc.
 6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046
 T: 410-872-9105

DATE: 03/14/2021 SCALE: 1"=30' FILE: OSDS LOT 29
 CHK'D: M.J.S. JOB NO: 4683 DRAWN: V.K.P.

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.

- 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
 - SILT FENCE
 - SUPER SILT FENCE
 - SCE STONE CONSTRUCTION ENTRANCE
 - ▨ SEWAGE DISPOSAL AREA
 - ▩ WELL BOX AREA
 - PROPOSED TREE
 - PROPOSED TREE
 - PROPOSED TREE

NOTE:
TOTAL LIMITS OF DISTURBANCE (LOD) = 31,457 SQ. FT.



HOUSE ENLARGEMENT
NOT TO SCALE

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



HOUSE TYPE: PARKHURST (TRADITIONAL)

TWO CAR SIDE ENTRY GARAGE	OPTION No. 012
FINISHED LOWER LEVEL	OPTION No. 013
WALK-OUT BASEMENT	OPTION No. 017
ADDITIONAL BATH FINISHED LOWER LEVEL	OPTION No. 383
MULTI-GENERATIONAL SUITE ADDITION	OPTION No. 263073
ADDITIONAL ONE CAR FRONT ENTRY GARAGE - 14'	OPTION No. 263102
LUXURY WALK-OUT COVERED DECK	OPTION No. 263169

WELL NUMBER: HO-20-0023

ADDRESS: 1437 HERITAGE RIDGE ROAD
WOODBINE, MD 21797

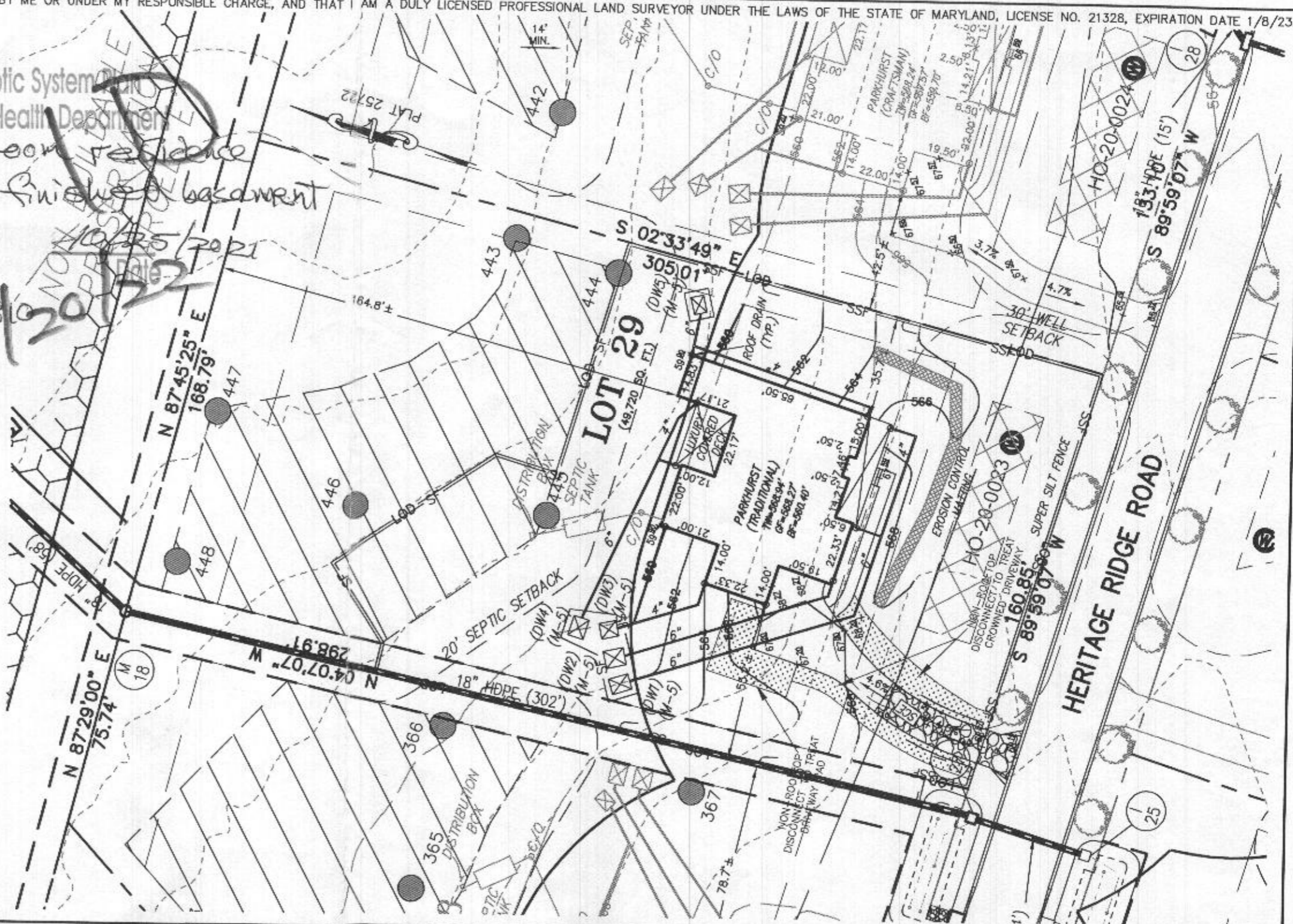
PLOT PLAN
LOT 29
LINDEN GROVE
LIBER 15899, FOLIO 246
PLAT NO. 25722
ELECTION DISTRICT No. 4
HOWARD COUNTY, MARYLAND

ESE CONSULTANTS
ENGINEERING • PLANNING • SURVEYING • ENVIRONMENT

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

DATE: 07/16/2021 SCALE: 1" = 40' FILE: PP LOT 29 PARKHURST TRADITIONAL
CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.

Approved Septic System
Howard County Health Department
5-bedroom residence
w/ bath in finished basement
Bridle
Signature
Date: 10/25/2021
B2100 2810
S/20/22



HOUSE OPTIONS:

HOUSE TYPE: PARKHURST (FAIRVIEW)

- TWO CAR SIDE ENTRY GARAGE
- FINISHED LOWER LEVEL
- WALK-OUT BASEMENT
- POWDER ROOM IN FINISHED LOWER LEVEL
- GRAND MULTI-GENERATIONAL SUIT ADDITION
- ADDITIONAL ONE CAR FRONT ENTRY GARAGE - 14'
- LUXURY WALK-OUT COVERED DECK

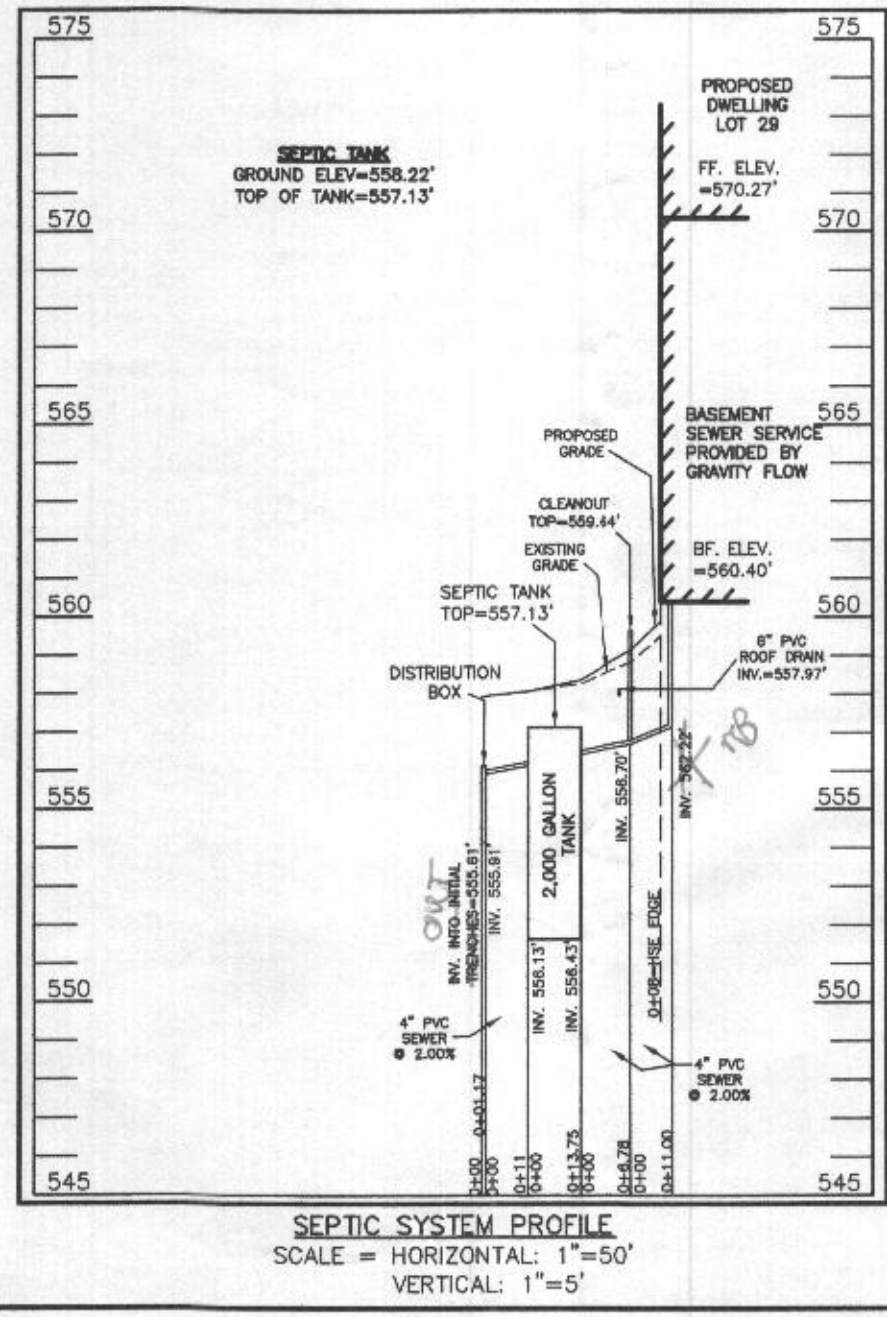
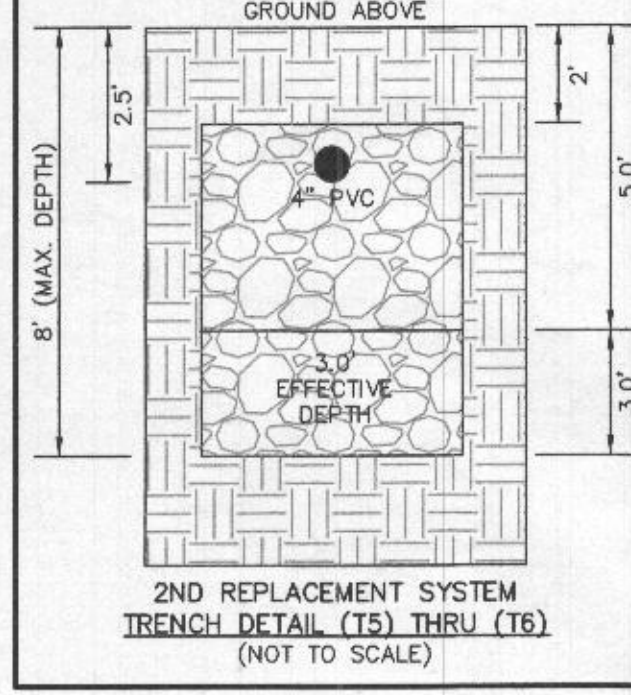
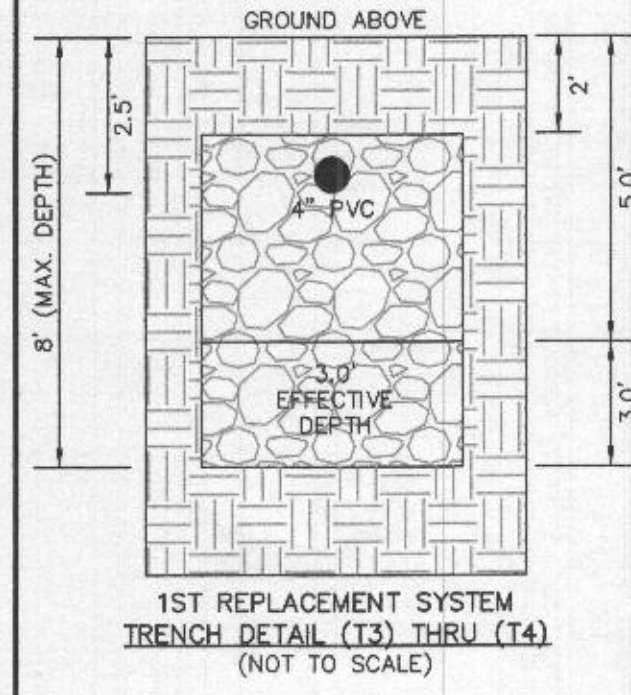
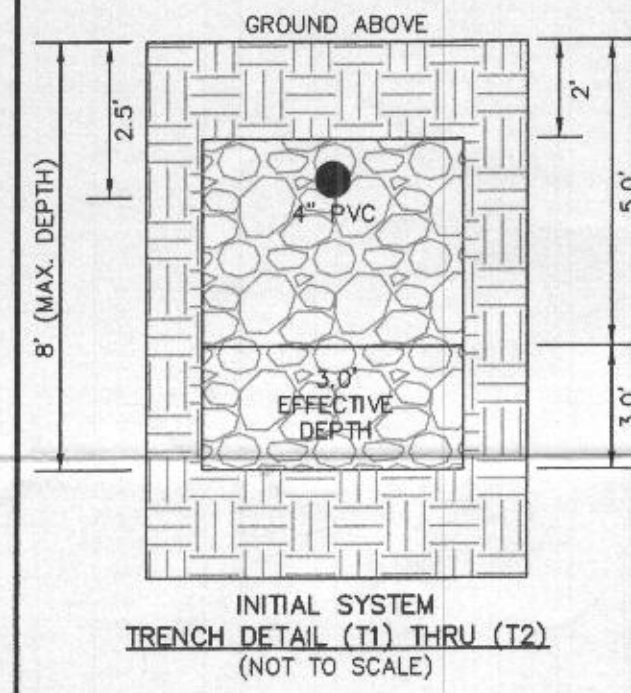
- OPTION No. 012
- OPTION No. 013
- OPTION No. 017
- OPTION No. 263036
- OPTION No. 263075
- OPTION No. 263102
- OPTION No. 263169

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INITIAL TRENCH DATA:

- BOTTOM MAX. DEPTH (8.0')
- TRENCH 1 (T1): 52.09 L.F.
GROUND ABOVE = 557.81'
INV. IN = 555.31'
BOTTOM TRENCH = 549.81'
- TRENCH 2 (T2): 52.09 L.F.
GROUND ABOVE = 556.80'
INV. IN = 554.30'
BOTTOM TRENCH = 548.80'

Approved Septic System
Howard County Health Department
to Gravity Distribution
for 10/25/2022
Signature



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

SEWAGE DISPOSAL SYSTEM DATA (5 BDRM)

- PROPOSED INVERT AT FOUNDATION WALL: 562.22'
1. EX. GRADE OVER TANK: 558.17'
PROPOSED GRADE OVER TANK: 558.22'
INVERT IN: 556.43' INVERT OUT: 556.13'
 2. DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 557.93'
PROPOSED GRADE OVER TANK: 557.93'
INVERT IN: 555.91' INVERT OUT: 555.61'
 3. INITIAL TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)
750 GPD + 1.2 APP. RATE = 625.00 SF
USE 3' WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
13' MIN. SPACING BETWEEN TRENCH EDGES
625.00 SF x 3' WIDTH = 208.33 LF x 0.50 (SIDEWALL REDUCTION) = 104.17 LF MIN.
USE 2 52.09' LONG TRENCHES = 104.17 LF
 4. 1ST REPLACEMENT TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)
750 GPD + 0.8 APP. RATE = 937.50 SF
USE 3' WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
13' MIN. SPACING BETWEEN TRENCH EDGES
937.50 SF x 3' WIDTH = 312.50 LF x 0.50 (SIDEWALL REDUCTION) = 156.25 LF MIN.
USE 2 78.13' LONG TRENCHES = 156.25 LF
 5. 2ND REPLACEMENT TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)
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SOILS LEGEND

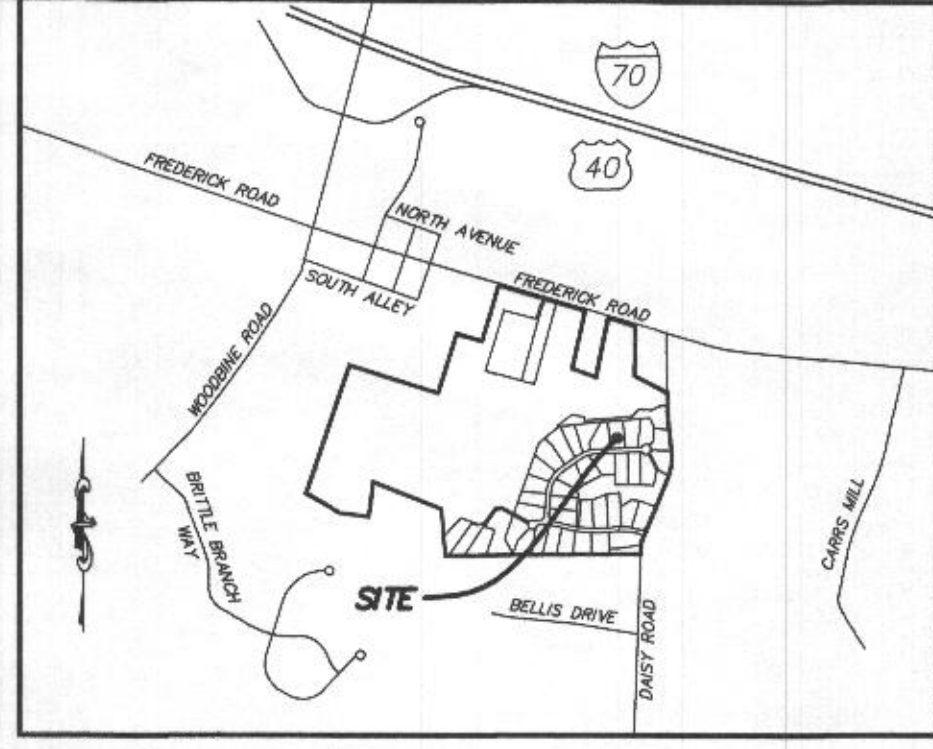
SOIL	NAME	CLASS	Kw
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GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	20
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	20
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	20
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 - **** DENOTES ERODIBLE SOILS

WELL LOCATION CERTIFICATION:

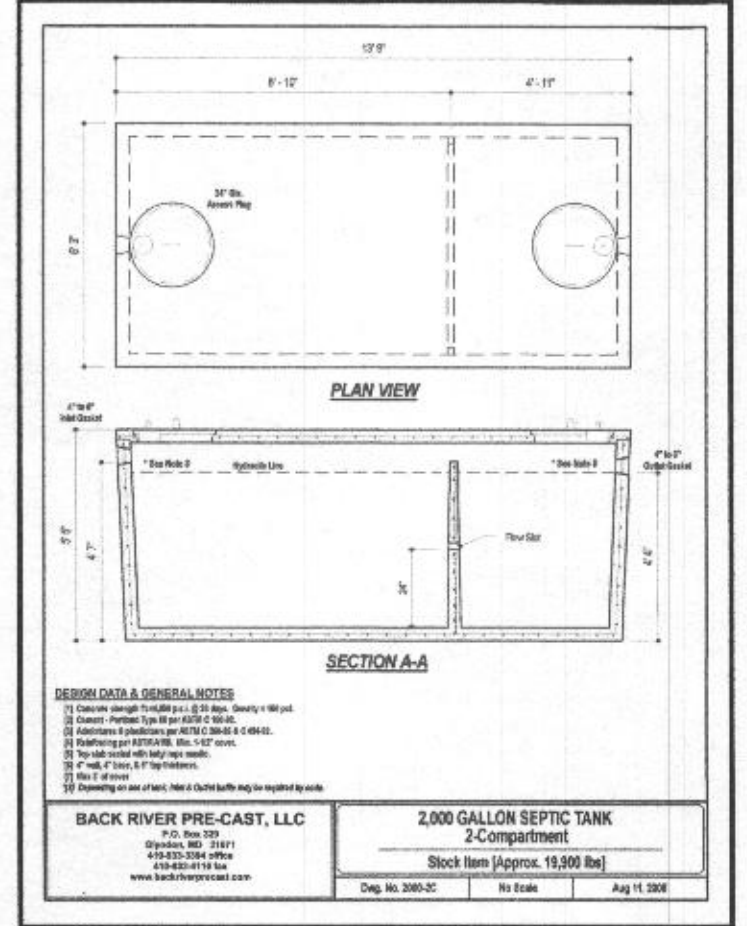
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ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 29
LINDEN GROVE
LIBER 15899, FOLIO 246
PLAT NO. 25722
ELECTION DISTRICT NO. 4
HOWARD COUNTY, MARYLAND
ADDRESS: 1437 HERITAGE RIDGE ROAD
WOODBINE, MARYLAND 21797



GENERAL NOTES:

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8. THE EXISTING TOPOGRAPHY SHOWN HEREON IS FROM HOWARD COUNTY GIS, 2' CONTOUR INTERVAL AND FIELD VERIFIED BY FISHER, COLLINS AND CARTER, INC.



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7164 Columbia Gateway Drive • Suite 230 • Columbia, MD 21046
T: 410-972-9105

DATE: 07/21/2021 SCALE: 1"=30' FILE: OSDS LOT 29
CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.