



**Howard County
Health Department**

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

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

RECEIPT DATE: 9-30-21 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 570179

APPROVAL DATE: 12/20/2021 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 15628 LINDEN GROVE LANE, WOODBINE, MD 21797

SUBDIVISION: LINDEN GROVE, PHASE 1 LOT: 18 TAX ID: 04-601897

CONTRACTOR: CHAVIS ENTERPRISES & SEPTIC SERVICES, LLC EMAIL: ryan@chavisenterprisesllc.com

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

PROPERTY OWNER: TOLL MID-ATLANTIC LP COMPANY, INC EMAIL: Sriley1@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: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>142</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>12</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3.5</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	INSTALL UPPER TRENCH (TRENCH T1) AND COVER IT PRIOR TO DIGGING SEPTIC TANK LOCATION. ASSURE THAT THERE IS AT LEAST 5 FEET FROM TRENCH WALL TO SEPTIC TANK EXCAVATION INSTALL 2 CLEANOUTS IN SHC.	

ISSUED BY: R BRICKER ISSUE DATE: 10-7-21 EXPIRATION DATE: 9-30-22

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 DOWNGRADE 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 attached

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3	2.5	8
NUMBER OF TRENCHES		2
TOTAL LENGTH		144
ABSORPTION AREA		432' x 45' SIDE WALL
DISTRIBUTION BOX LEVEL		SPEED
DISTRIBUTION BOX BAFFLE		cone
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL yes
 MANUFACTURER Babylon
 CAPACITY 2000 GAL
 SEAM LOC top
 TANK LID DEPTH 0.5-1'
 BAFFLES YES
 BAFFLE FILTER _____
 MANHOLE LOC inlet & outlet
 6" PORT LOC _____
 WATERTIGHT TEST _____
 SLOTTED yes
 DATE ON LID 11-9-21

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:

12/14/21 2x72' trenches were staked out on contour according to plan. (SD)

INSTALLATION: 12/16/21 Plumber stubbed out SHC 6" below where it was planned. Septic contractor therefore set tank lower than trench inlet. Contractor and builder decided SHC and tank will be raised, w/ tank rebedded in #2 stone (SD)
 12/17/21 Tank raised and SH raised. D-box set. Re insp for SHC. (SD) 12/20/2021
 TRENCHES INSTALLED; SHC COMPLETE. LEVELED D BOX w/ SPEED LEVELS (SD)

FINAL INSPECTOR

DATE OF APPROVAL

12/20/2021

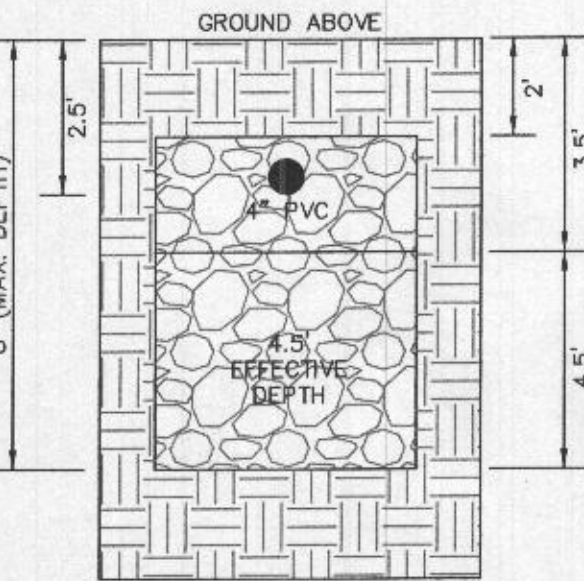
HOUSE OPTIONS:

- HOUSE TYPE: PARKHURST (MODERN FARMHOUSE)
- TWO CAR SIDE ENTRY GARAGE
 - FINISHED LOWER LEVEL
 - DAYLIGHT BASEMENT
 - MULTI-GENERATIONAL SUITE ADDITION
 - OPTIONAL DROP ZONE
 - LUXURY OUTDOOR LIVING SPACE
 - BEDROOM FOR FINISHED LOWER LEVEL
 - OPTIONAL BATH FOR FINISHED LOWER LEVEL
 - WET BAR FOR FINISHED LOWER LEVEL
 - MEDIA ROOM FOR FINISHED LOWER LEVEL
 - DOUBLE WIDE DRIVEWAY TAIL
 - FINISHED AREA UNDER THE MULTI GEN SUITE

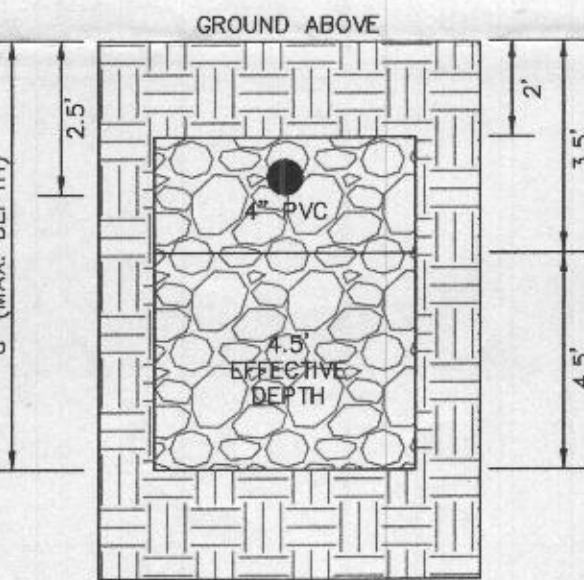
- OPTION No. 012
- OPTION No. 013
- OPTION No. 018
- OPTION No. 263073
- OPTION No. 263081
- OPTION No. 263165
- OPTION No. 263216
- OPTION No. 383
- OPTION No. 561
- OPTION No. 562
- OPTION No. 851
- OPTION No. 90018009

LEGEND:

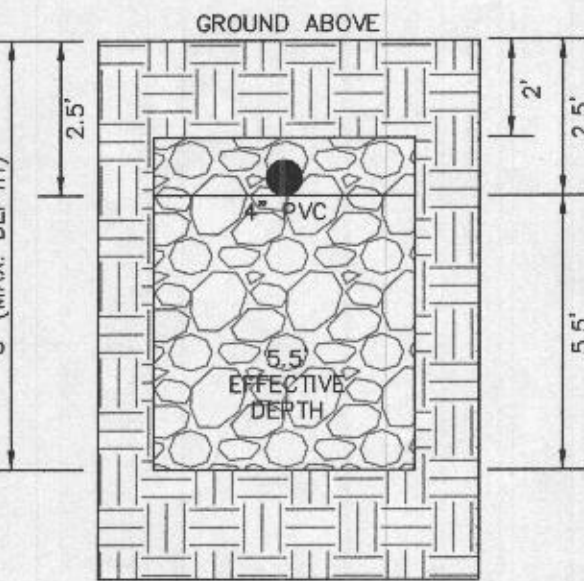
- BRL BUILDING RESTRICTION LINE
- WELL LOCATION
- T.W. TOP OF WALL
- G.F. GARAGE FLOOR
- B.F. BASEMENT FLOOR
- PASSED PERC LOCATION
- FAILED PERC LOCATION
- ▨ SEPTIC RESERVE AREA
- ▨ WELL BOX AREA
- PROPOSED TREE
- PROPOSED TREE



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



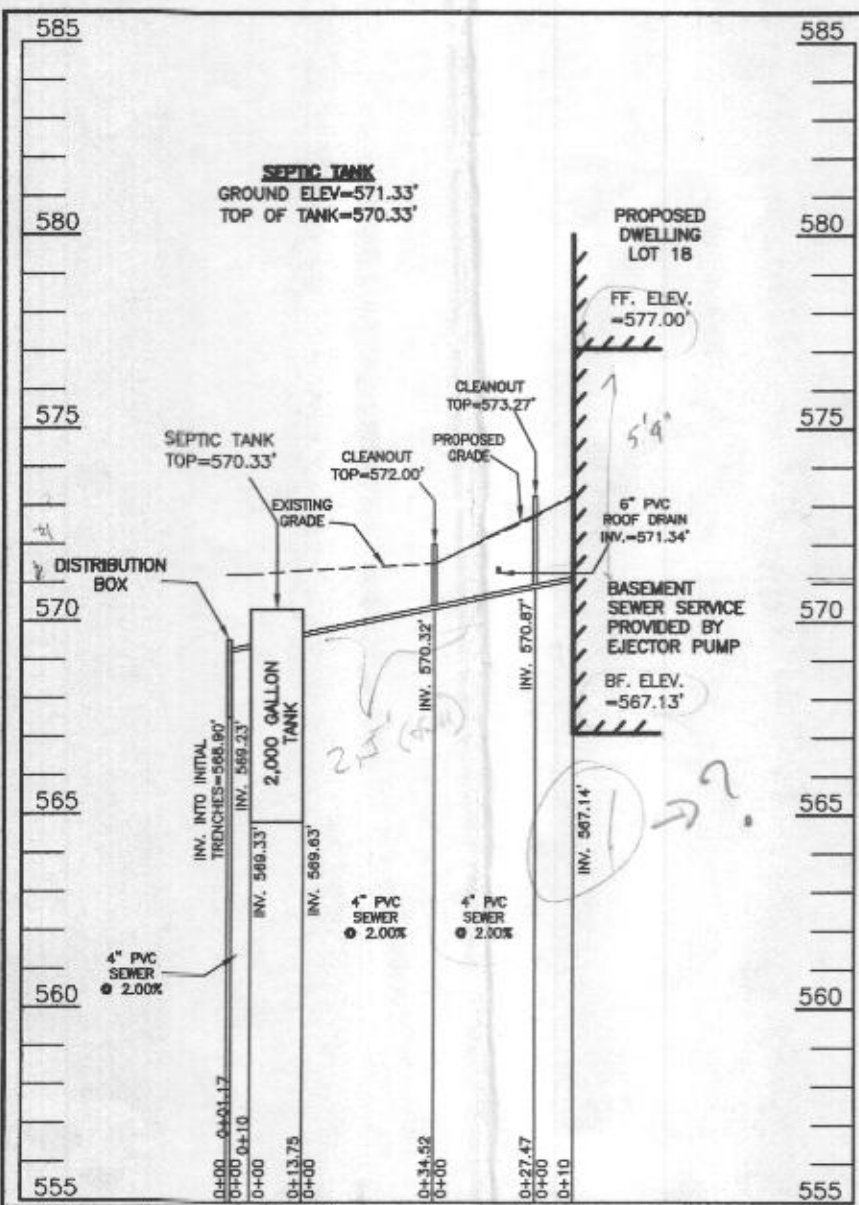
1ST REPLACEMENT SYSTEM TRENCH DETAIL (T3) AND (T4) (NOT TO SCALE)



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

INITIAL TRENCH DATA

- BOTTOM MAX. DEPTH (8')
- TRENCH 1 (T1): 71.25' L.F.
GROUND ABOVE = 570.75'
INV. IN = 568.25'
BOTTOM TRENCH = 562.75'
- TRENCH 2 (T2): 71.25' L.F.
GROUND ABOVE = 569.53'
INV. IN = 567.03'
BOTTOM TRENCH = 561.53'



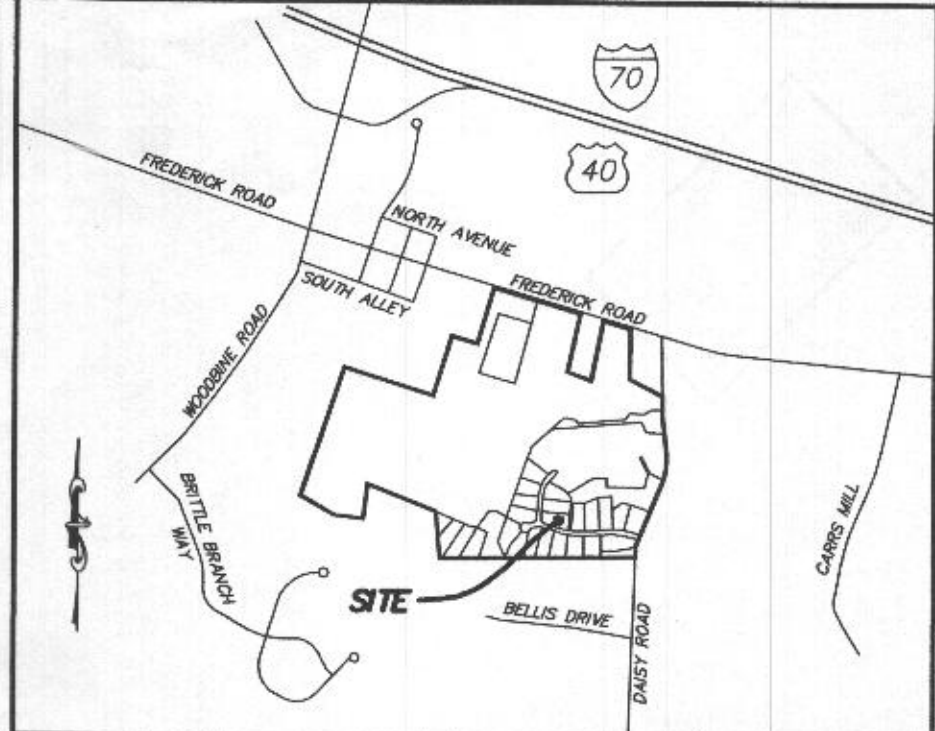
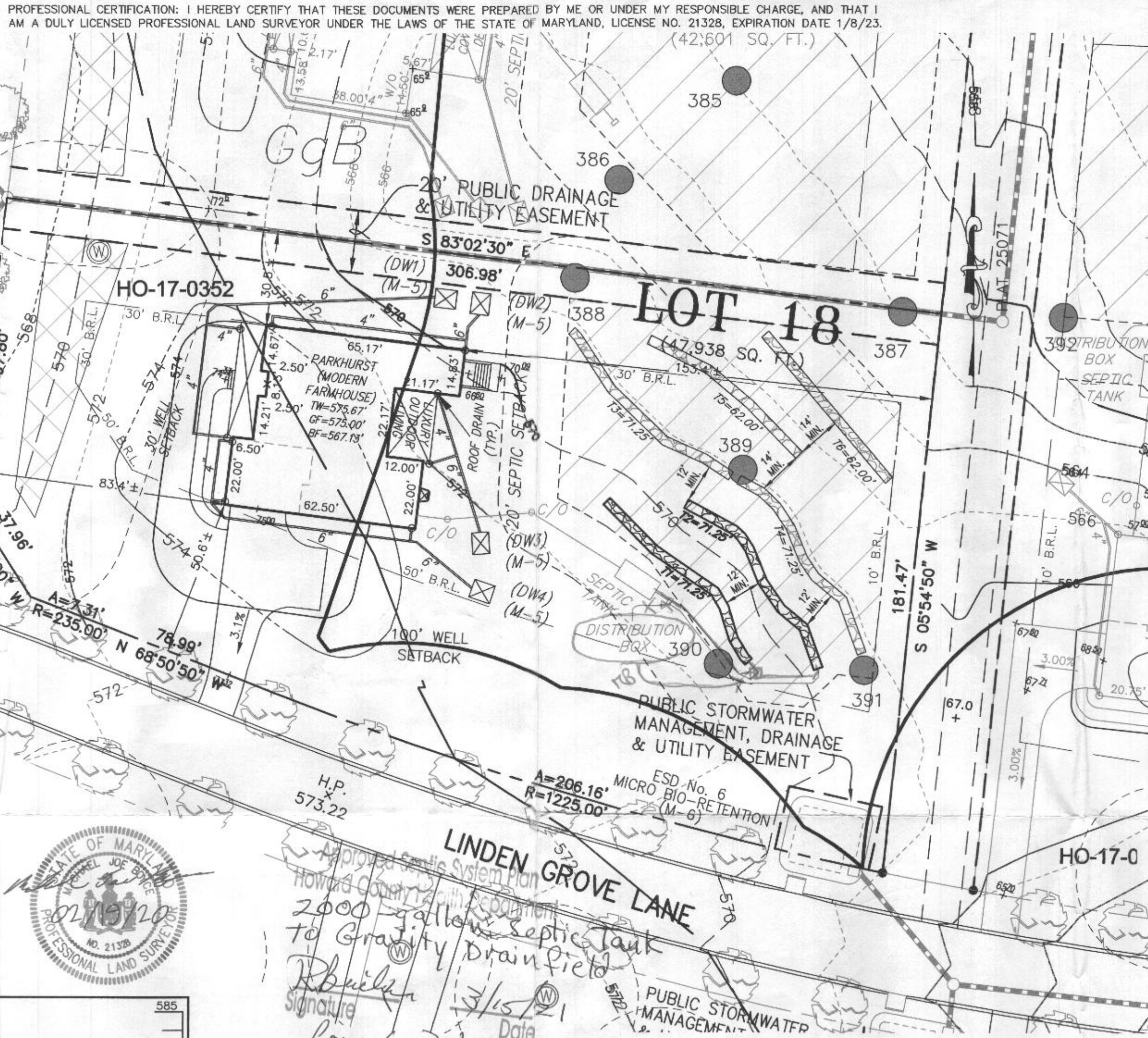
SEPTIC SYSTEM PROFILE
SCALE = HORIZONTAL: 1"=50'
VERTICAL: 1"=5'



SEWAGE DISPOSAL SYSTEM DATA (6 BDRM)

- PROPOSED INVERT AT FOUNDATION WALL: XXX.XX'
- 1. EX. GRADE OVER TANK: 571.33'
PROPOSED GRADE OVER TANK: 571.33'
INVERT IN: 569.63' INVERT OUT: 569.33'
- 2. DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 571.22'
PROPOSED GRADE OVER TANK: 571.22'
INVERT IN: 569.23' INVERT OUT: 568.90'
- 3. 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
12' MIN. SPACING BETWEEN TRENCH EDGES
1,125 SF ÷ 3' WIDTH = 375 LF x 0.38 (SIDEWALL REDUCTION) = 142.50 LF MIN.
USE 2 71.25' LONG TRENCHES = 142.50 LF
- 4. 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 66" GRAVEL BELOW PIPE
1,125 SF ÷ 3' WIDTH = 375 LF x 0.38 (SIDEWALL REDUCTION) = 142.50 LF MIN.
USE 2 71.25' LONG TRENCHES = 142.50 LF
- 5. 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 66" GRAVEL BELOW PIPE
14' MIN. SPACING BETWEEN TRENCH EDGES
1,125 SF ÷ 3' WIDTH = 375 LF x 0.33 (SIDEWALL REDUCTION) = 123.75 LF MIN.
USE 2 62' LONG TRENCH = 124 LF

*Applied Septic System Plan
Howard County Health Department
2000-gallon septic tank
to Gravity Drainfield
R. Builders
Signature
Date 3/15/21
for 6-Bed room SFD*



GENERAL NOTES:

1. 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.
2. 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.
3. ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
4. BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.
5. 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.
6. THE MAXIMUM EARTH COVER OVER THE TANK IS THREE (3) FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
7. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
8. THE EXISTING TOPOGRAPHY SHOWN HEREON IS FROM HOWARD COUNTY GIS, 2' CONTOUR INTERVAL AND FIELD VERIFIED BY FISHER, COLLINS AND CARTER, INC.

SOILS LEGEND

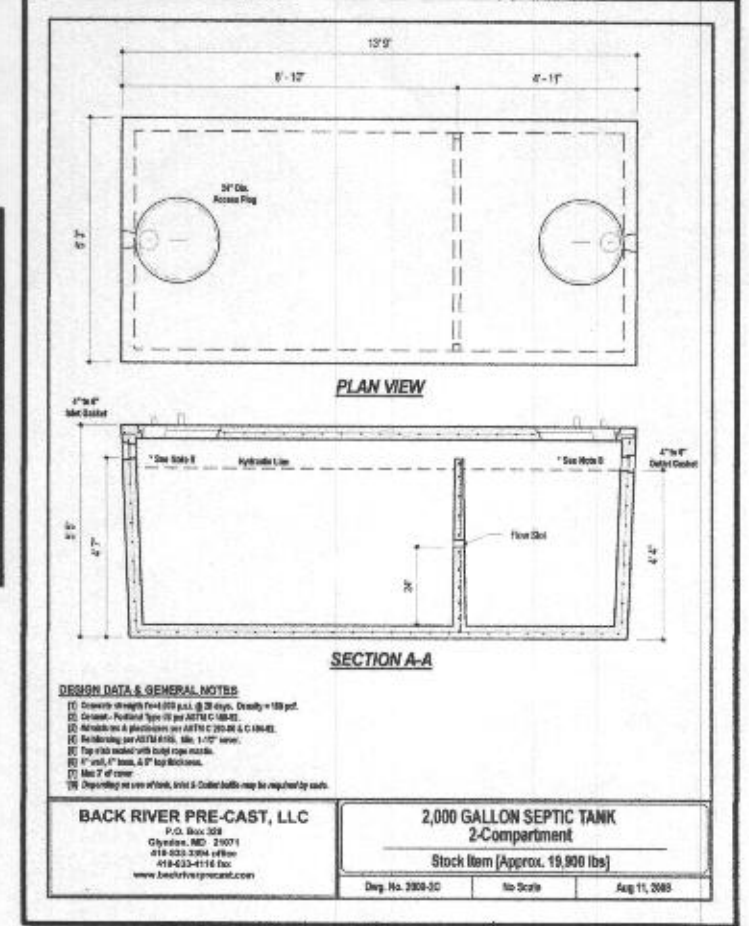
SOIL	NAME	CLASS	Kw
BrD	BRINKLOW CHANNERY LOAM, 15 TO 25 PERCENT SLOPES	B	.20
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	.20
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	.20
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	.20
*GmA	GLENVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES	C	.37
*GmB	GLENVILLE SILT LOAM, 3 TO 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 18 (TAG NO. HO-17-0352) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 18
LINDEN GROVE
LIBER 19209, FOLIO 403
PLAT NO. 25071
ELECTION DISTRICT No. 4
HOWARD COUNTY, MARYLAND
ADDRESS: 15628 LINDEN GROVE LANE
WOODBINE, MARYLAND 21797

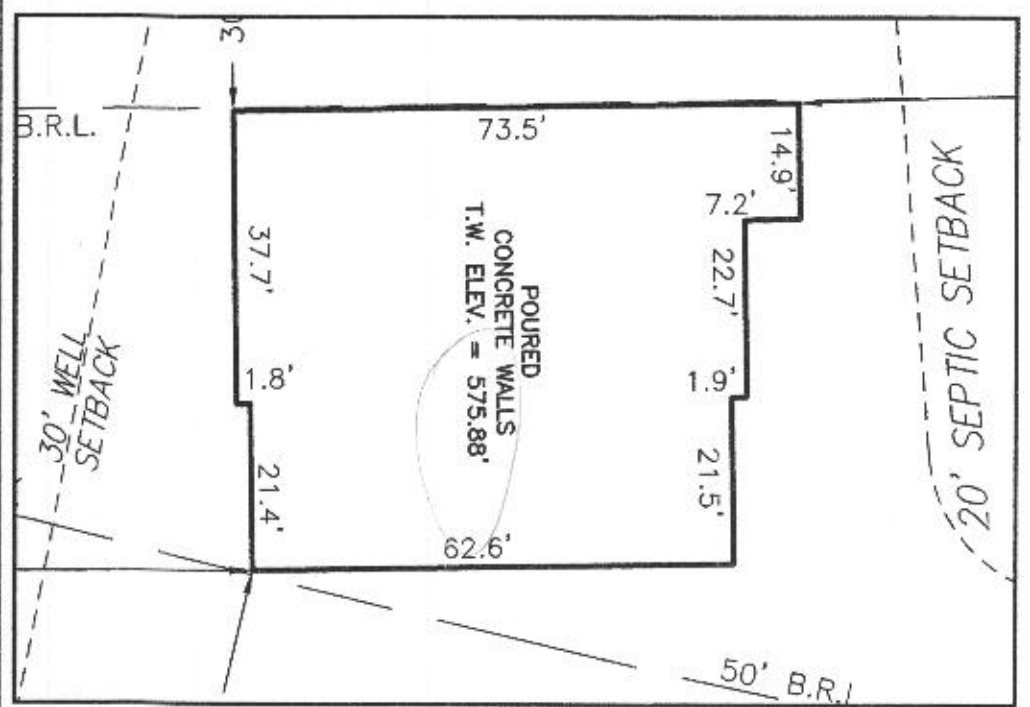


ESE CONSULTANTS
ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL

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

DATE: 02/17/2020 SCALE: 1"= 30' FILE: OSDS LOT 18
CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.

- LEGEND:**
- BRL BUILDING RESTRICTION LINE
 - ⊙ WELL LOCATION
 - T.W. TOP OF WALL
 - SEPTIC RESERVE AREA
 - WELL BOX AREA

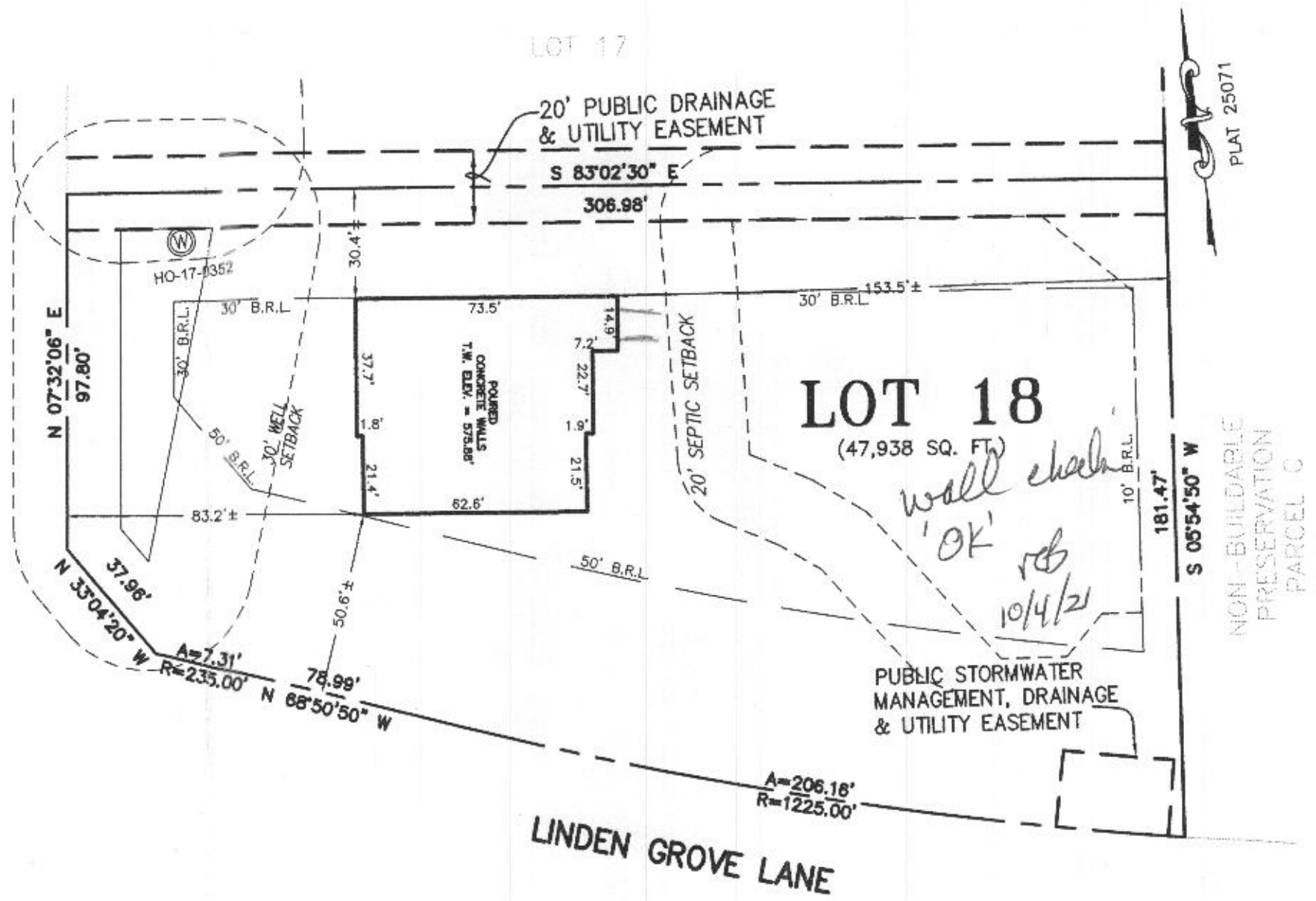


HOUSE ENLARGEMENT
NOT TO SCALE

WELL NUMBER: HO-17-0352
ADDRESS: 15628 LINDEN GROVE LANE
 WOODBINE, MD 21797
PERMIT NO.: B21000664

BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT 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.

Michael Joe Boyce 21328 8/11/21
 SIGNATURE: MICHAEL JOE BOYCE MD. LIC NO. DATE

WALLCHECK
 LOT 18
LINDEN GROVE
 LIBER 1619, FOLIO 341
 PLAT NO. 25071
 ELECTION DISTRICT No. 4
 HOWARD COUNTY, MARYLAND

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

DATE: 08/11/2021 SCALE: 1" = 40' FILE: WC LOT 18
 CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.

