

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

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

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

P 570181

APPROVAL DATE: 10/15/21 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 15608 LINDEN GROVE LANE, WOODBINE, MD 21797

SUBDIVISION: LINDEN GROVE, PHASE 1 LOT: 22 TAX ID: 04-601901

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): 1500 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: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>172</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>6.5</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4.0</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	SET DISTRIBUTION BOX NEAR BEGINNING OF UPPER TRENCH INSTALL A CLEANOUT IN SHC.	

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

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
diagram

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH INLET BOTTOM

3' 2.5' 6.5'

NUMBER OF TRENCHES 2

TOTAL LENGTH 172'

ABSORPTION AREA 516 sq ft + sidewalk

DISTRIBUTION BOX LEVEL speedy

DISTRIBUTION BOX BAFFLE concrete

DISTRIBUTION BOX PORT PVC

SEPTIC TANK DATA

SEPTIC TANK I LEVEL _____

MANUFACTURER Babylon

CAPACITY 1500 GAL

SEAM LOC top

TANK LID DEPTH 0.5'

BAFFLES inlet + outlet

BAFFLE FILTER -

MANHOLE LOC inlet + outlet

6" PORT LOC -

WATERTIGHT TEST -

SLOTTED yes

DATE ON LID 9-7-21

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:

10/08/2021 LAID OUT 2X 86' TR ON CONTOUR; STRAIGHTENED W/ 6" ELEV. (SB)

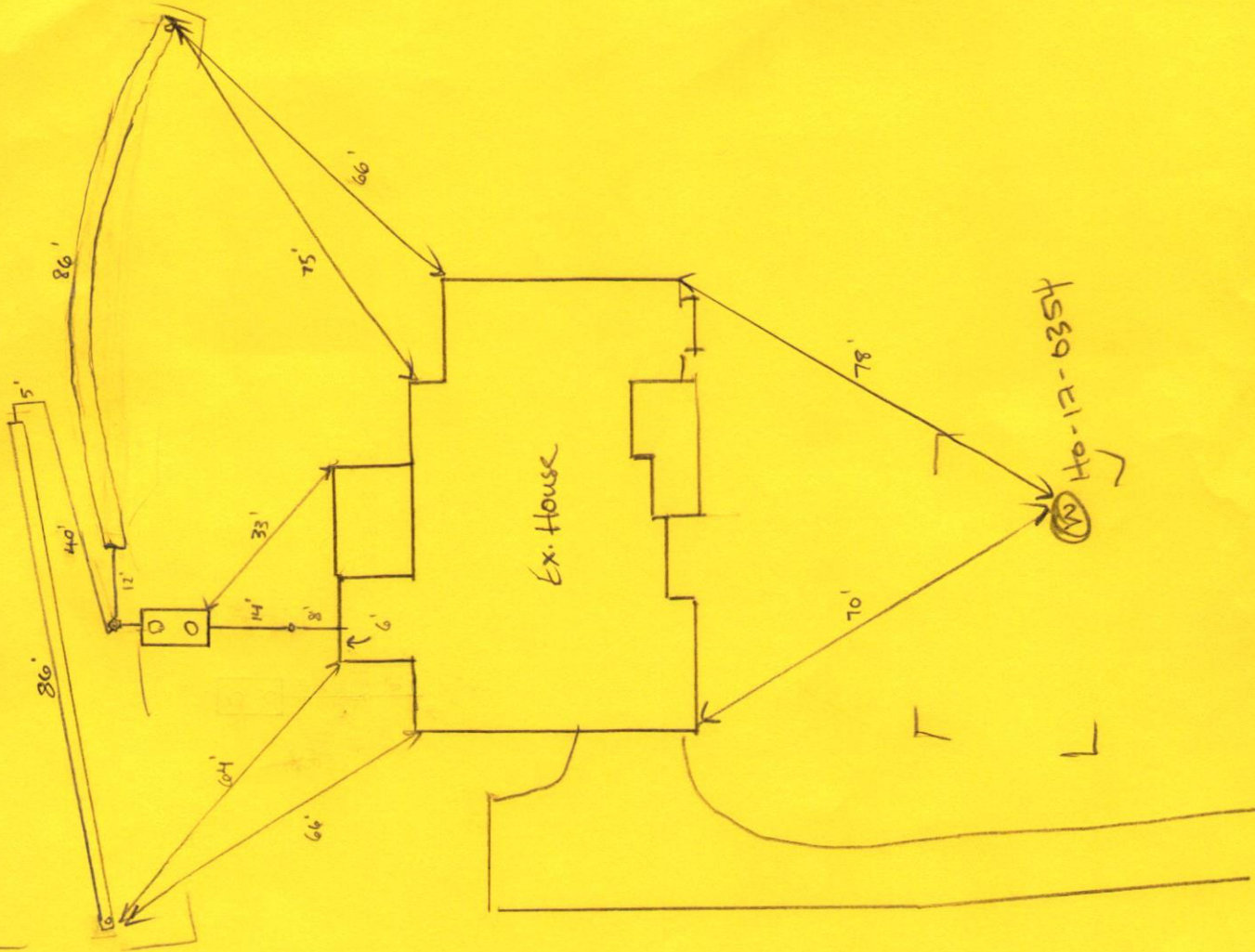
INSTALLATION: 10/15/21 Tank set, d-box set and leveled. 2X 86' trenches installed. (SB)

FINAL INSPECTOR Dwan Thomas . DATE OF APPROVAL 10/15/21

15608 Linden Grove Ln

~1:30

NOT TO SCALE



LINDEN GROVE

HOUSE OPTIONS:

- HOUSE TYPE: RENWICK (MODERN FARMHOUSE)
- 2 CAR SIDE ENTRY GARAGE
 - WALK-OUT BASEMENT
 - GRAND MULTI-GENERATIONAL SUITE ADDITION
 - PREP KITCHEN
 - WALK-OUT LUXURY COVERED DECK
 - DOUBLE WIDE DRIVEWAY TAIL
 - ADDITIONAL SINGLE WINDOW
 - INSTALL WET BAR LOCATED IN LOWER LEVEL

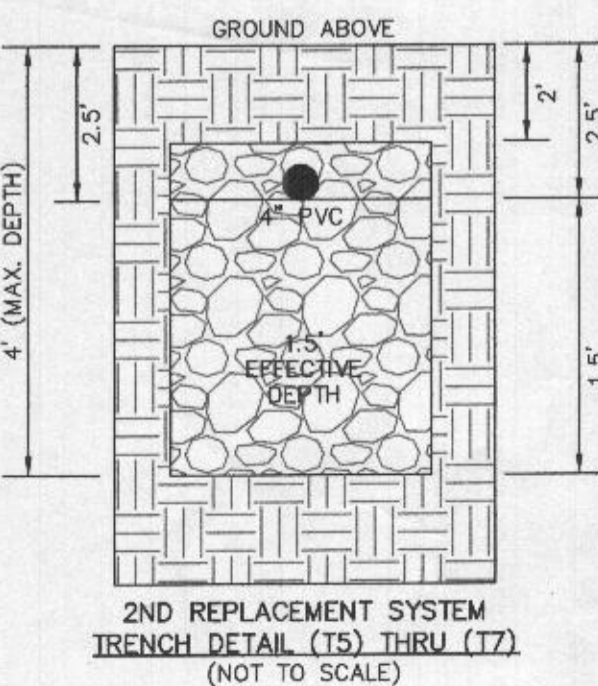
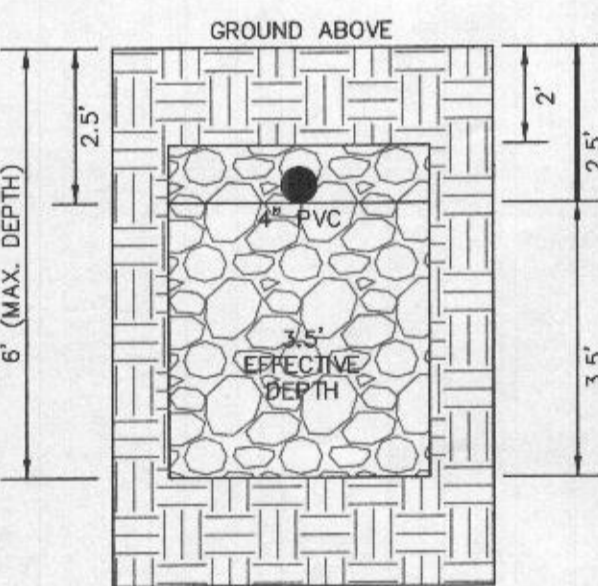
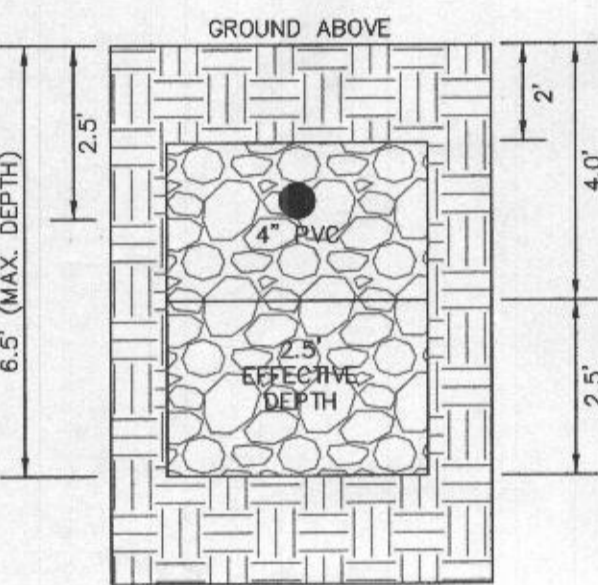
- OPTION No. 012
- OPTION No. 017
- OPTION No. 263075
- OPTION No. 263158
- OPTION No. 263169
- OPTION No. 851
- OPTION No. 187
- OPTION No. 90022004

INITIAL TRENCH DATA:

- BOTTOM MAX. DEPTH (6.5')**
- TRENCH 1 (T1): 86.00 L.F.**
GROUND ABOVE = 544.9'
INV. IN = 542.4'
BOTTOM TRENCH = 538.4'
- TRENCH 2 (T2): 86.00 L.F.**
GROUND ABOVE = 544.2'
INV. IN = 541.7'
BOTTOM TRENCH = 537.7'

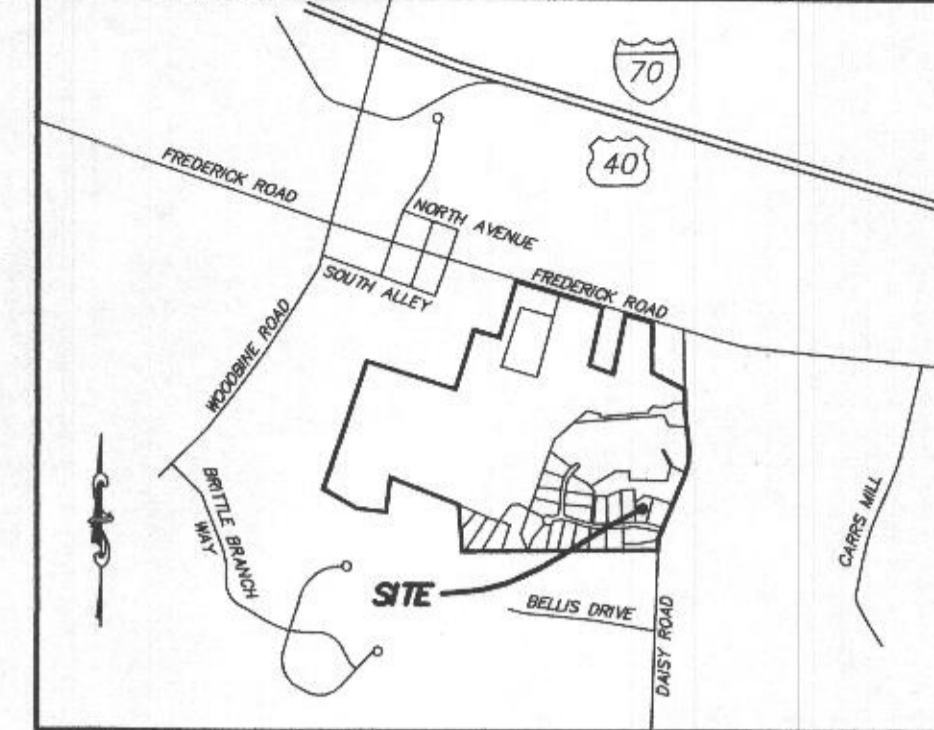
LEGEND:

- 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
- ▨ SEPTIC RESERVE AREA
- WELL BOX AREA
- PROPOSED TREE
- PROPOSED TREE
- PROPOSED TREE



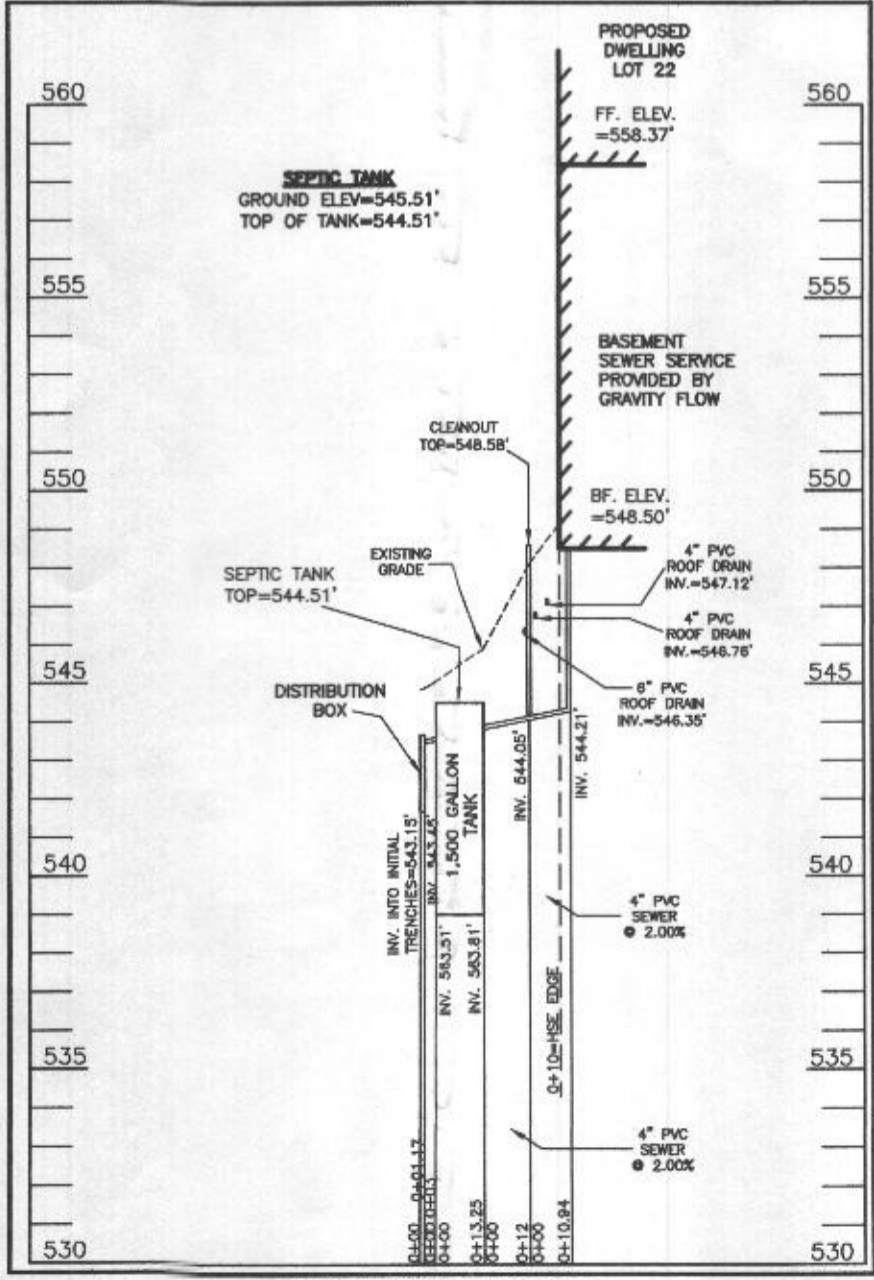
Approved Septic System Plan
Howard County Health Department
1500 gal Septic tanks, WELL
to Gravity Drainage BACK
for 5 Bedroom STD
5/6/21
Signature

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.



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.



SEWAGE DISPOSAL SYSTEM DATA (5 BDRM):

- PROPOSED INVERT AT FOUNDATION WALL: 544.41'
1. EX. GRADE OVER TANK: 545.51'
PROPOSED GRADE OVER TANK: 545.51'
INVERT IN: 543.81' INVERT OUT: 543.51'
2. DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 545.27'
PROPOSED GRADE OVER TANK: 545.27'
INVERT IN: 543.41' INVERT OUT: 543.11'
3. INITIAL TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)
750 GPD ÷ 0.8 APP. RATE = 937.50 SF
USE 3' WIDE TRENCH WITH 48" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
937.50 SF ÷ 3' WIDTH = 312.50 LF x 0.55 (SIDEWALL REDUCION) = 171.88 LF MIN.
USE 2 86' LONG TRENCHES = 172 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 42" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
937.50 SF ÷ 3' WIDTH = 312.50 LF x 0.45 (SIDEWALL REDUCION) = 140.63 LF MIN.
USE 2 70.50' LONG TRENCHES = 141 LF
5. 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 18" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
937.50 SF ÷ 3' WIDTH = 312.50 LF x 0.71 (SIDEWALL REDUCION) = 221.88 LF MIN.
USE 3 74' LONG TRENCH = 222 LF

SOILS LEGEND

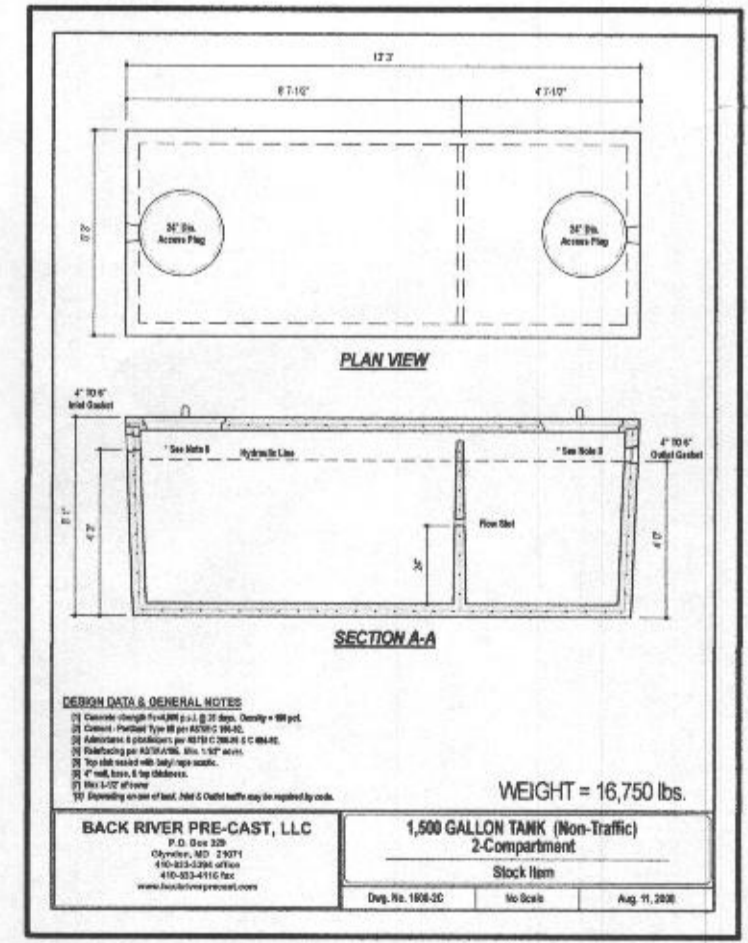
SOIL	NAME	CLASS	Kw
BrD	BRINKLOW CHANNERY LOAM, 15 TO 25 PERCENT SLOPES	B	20
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	20
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	20
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	20
*GmA	GLENVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES	C	.37
*GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT 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 22 (TAG NO. HO-17-0354) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 22
LINDEN GROVE
LIBER 15899, FOLIO 246
PLAT NO. 25070
ELECTION DISTRICT No. 4
HOWARD COUNTY, MARYLAND
ADDRESS: 15608 LINDEN GROVE LANE
WOODBINE, MARYLAND 21797



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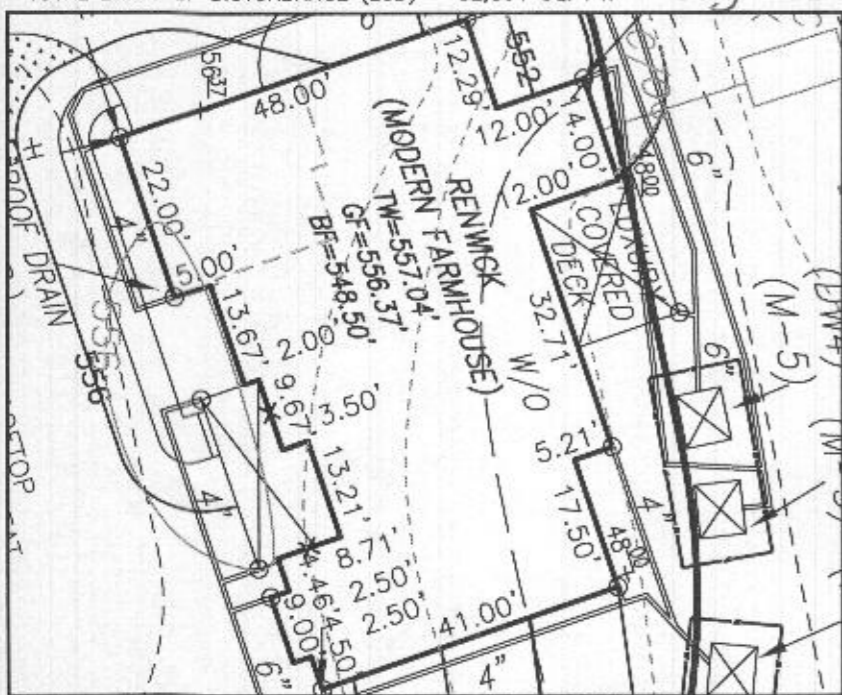
DATE: 02/08/2021 SCALE: 1"=30' FILE: OSDS LOT 22
CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.

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
- 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
- SEPTIC RESERVE AREA
- WELL BOX AREA
- PROPOSED TREE
- PROPOSED TREE
- PROPOSED TREE

NOTE:
TOTAL LIMITS OF DISTURBANCE (LOD) = 32,864 SQ. FT.



WELL NUMBER: HO-17-0354

ADDRESS: 15608 LINDEN GROVE LANE
WOODBINE, MD 21797

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: RENWICK (MODERN FARMHOUSE)

- 2 CAR SIDE ENTRY GARAGE
- WALK-OUT BASEMENT
- GRAND MULTI-GENERATIONAL SUITE ADDITION
- PREP KITCHEN
- WALK-OUT LUXURY COVERED DECK
- DOUBLE WIDE DRIVEWAY TAIL
- ADDITIONAL SINGLE WINDOW
- INSTALL WET BAR LOCATED IN LOWER LEVEL

- OPTION No. 012
- OPTION No. 017
- OPTION No. 263075
- OPTION No. 263158
- OPTION No. 263169
- OPTION No. 851
- OPTION No. 187
- OPTION No. 90022004

PLOT PLAN
LOT 22
LINDEN GROVE
LIBER 1619, FOLIO 341
PLAT NO. 25070
ELECTION DISTRICT No. 4
HOWARD COUNTY, MARYLAND

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7164 Columbia Gateway Drive • Suite 230 • Columbia, MD 21046

T: 410-872-9105

DATE: 04/08/2021 SCALE: 1" = 40' FILE: 4683 PP LOT 22 Renwick M.F._rev1
CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.



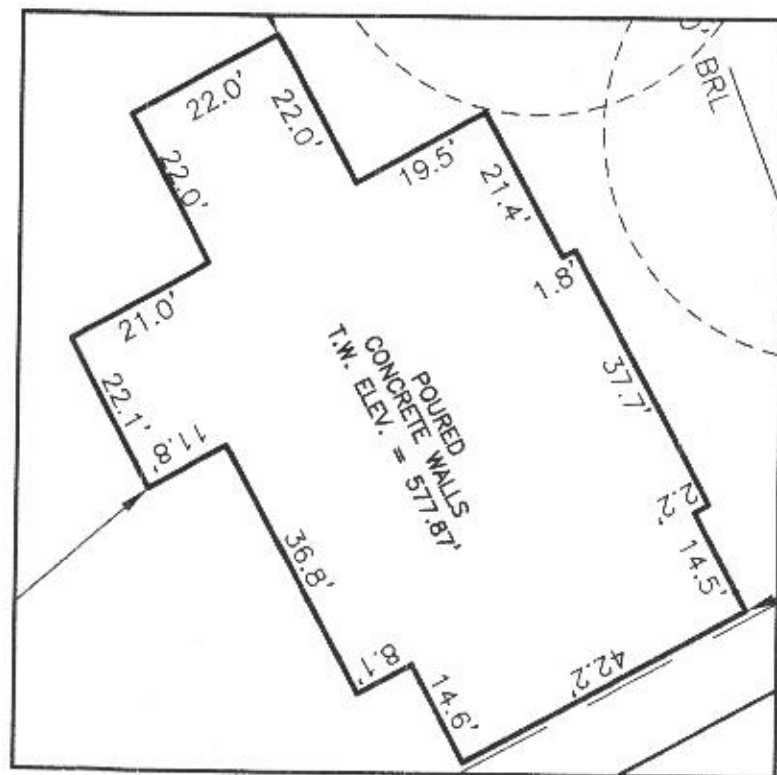
Approved Septic System Plan
Howard County Health Department
5 bedroom SFD
w/ unfinished basement
Bath rough-in not illustrated
egress windows in basement



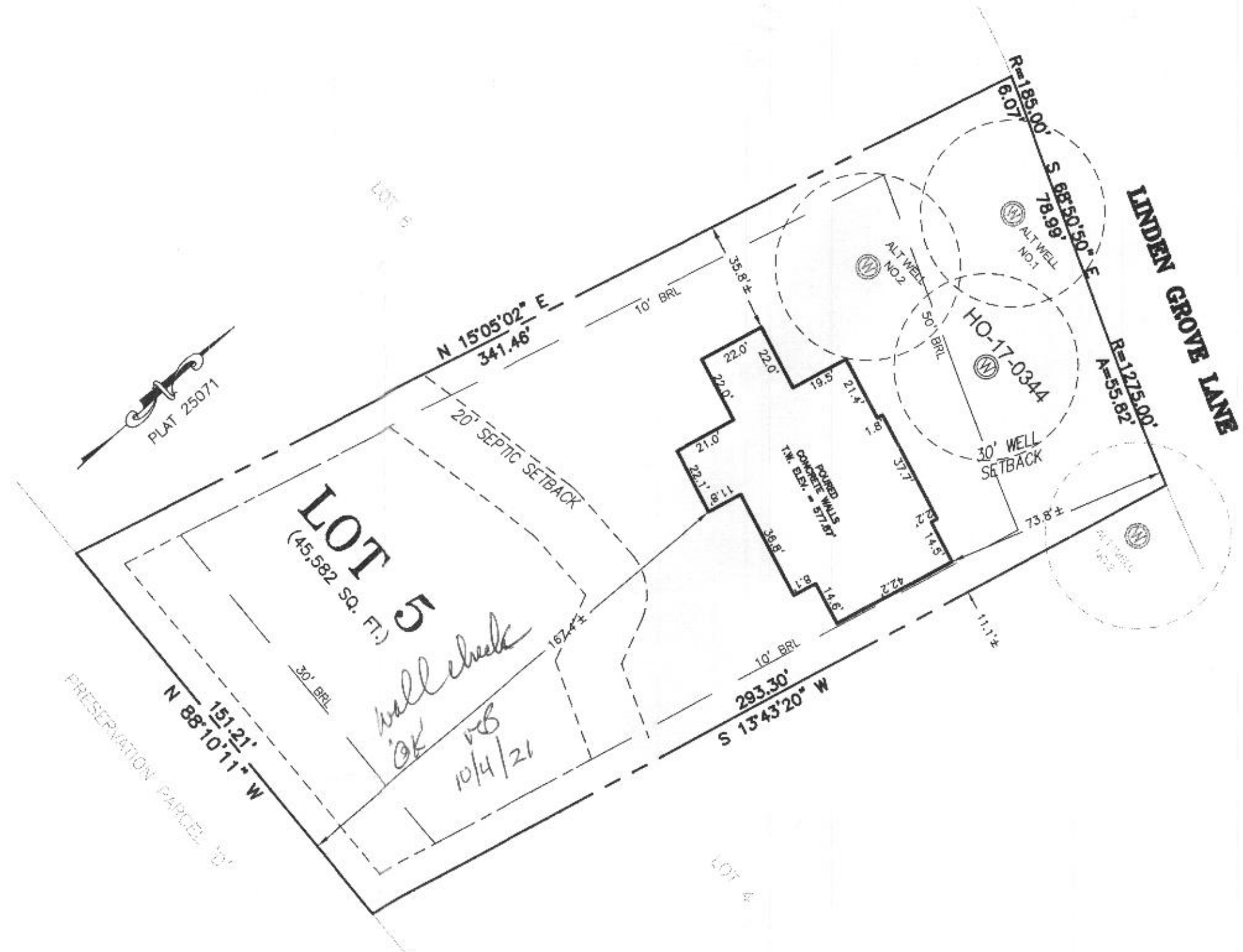
LEGEND:

BRL BUILDING RESTRICTION LINE
 W WELL LOCATION
 T.W. TOP OF WALL
 ELEV. ELEVATION

SEPTIC RESERVE AREA
 WELL BOX AREA



HOUSE ENLARGEMENT
 NOT TO SCALE



WELL NUMBER: HO-17-0344

ADDRESS: 15621 LINDEN GROVE LANE
 WOODBINE, MD 21797

PERMIT NO. B20004569

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 07/24/21
 MD. LIC. NO. DATE

WALLCHECK
 LOT 5
 LINDEN GROVE
 LIBER 15899, FOLIO 246
 PLAT NO. 25071
 ELECTION DISTRICT No. 4
 HOWARD COUNTY, MARYLAND

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

DATE: 07/24/2021 SCALE: 1" = 40' FILE: 4683 WC LOT 5
 CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.

