

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: 5-25-21 **ONSITE SEWAGE DISPOSAL SYSTEM** P 569827
 APPROVAL DATE: 8/12/21 **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 15633 LINDEN GROVE LANE, WOODBINE, MD 21797
 SUBDIVISION: LINDEN GROVE, PHASE 1 LOT: 8 TAX ID: 04-601887
 CONTRACTOR: Charvis Enterprises, LLC EMAIL: Sederick@charvisenterprisesllc.com
 CONTRACTOR ADDRESS: 23 East Elkrode St, Bel Air, MD 21014 PHONE: 410-557-2155
 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>119</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>12</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>2.5</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 CLEANOUT IN SHC, AS ILLUSTRATED.	

ISSUED BY: R BRICKER ISSUE DATE: _____ EXPIRATION DATE: 5-25-22

- 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.**

NOT TO SCALE

* see attached diagram

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
<u>3'</u>	<u>2.5</u>	<u>7'</u>
NUMBER OF TRENCHES		<u>2</u>
TOTAL LENGTH		<u>120'</u>
ABSORPTION AREA		<u>360 sq ft + sidewalk</u>
DISTRIBUTION BOX LEVEL		<u>yes</u>
DISTRIBUTION BOX BAFFLE		<u>yes</u>
DISTRIBUTION BOX PORT		<u>yes</u>

SEPTIC TANK DATA

SEPTIC TANK 1 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 8-25-21

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:

8/11/21 Contractor accidentally thought there had been a pre construction meeting for this property and began work. (S)

INSTALLATION:

8/11/21 STC, SL constructed. Tank set. 2x60' trenches constructed. Re-insp for d-box leveling. (S) 8/12/2021 D-box leveled. Leaks from concrete used to seal d-box - leaks fixed. (S)

FINAL INSPECTOR

Susan Thomas

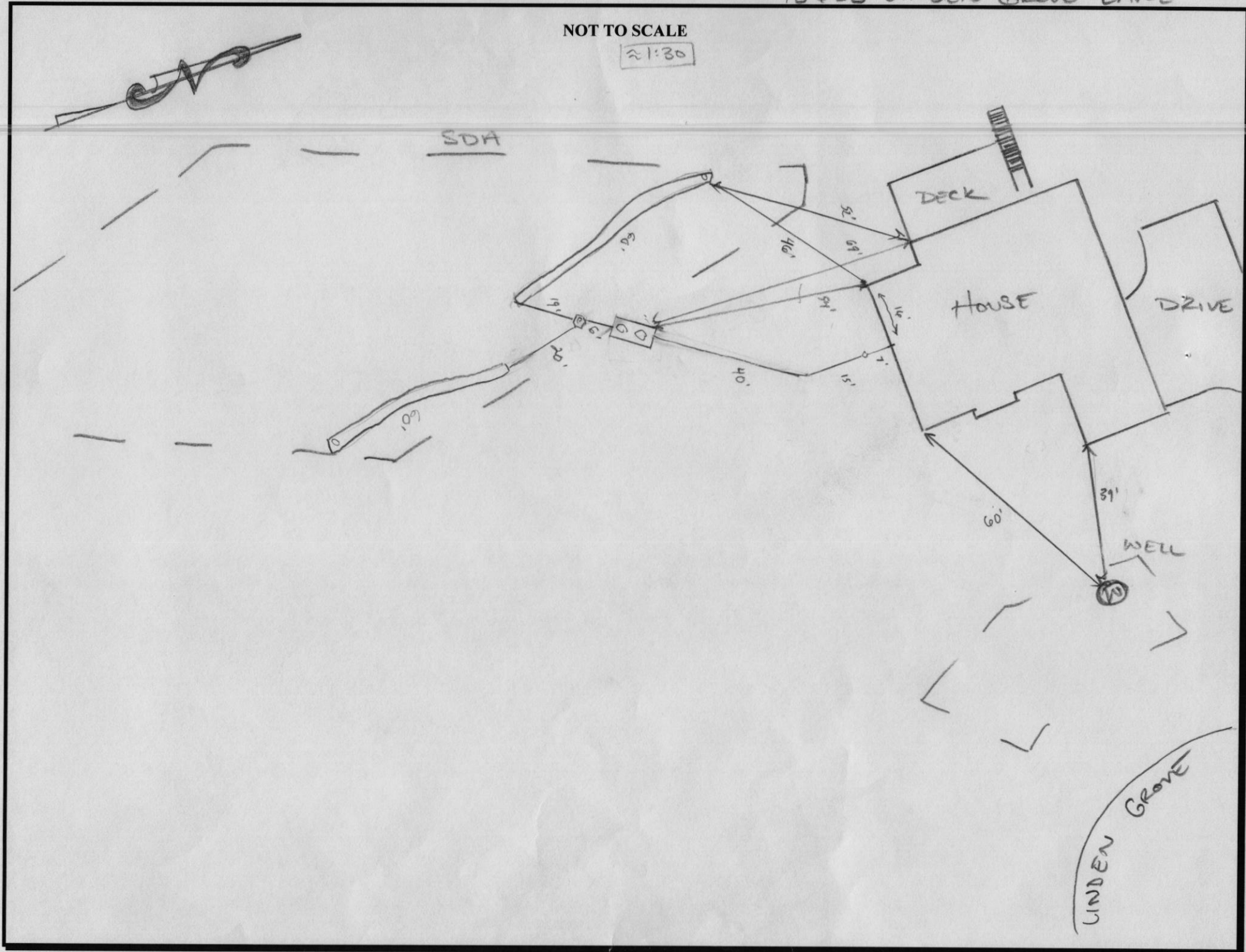
DATE OF APPROVAL

8/12/21

15633 LINDEN GROVE LANE

NOT TO SCALE

≈ 1:30



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.

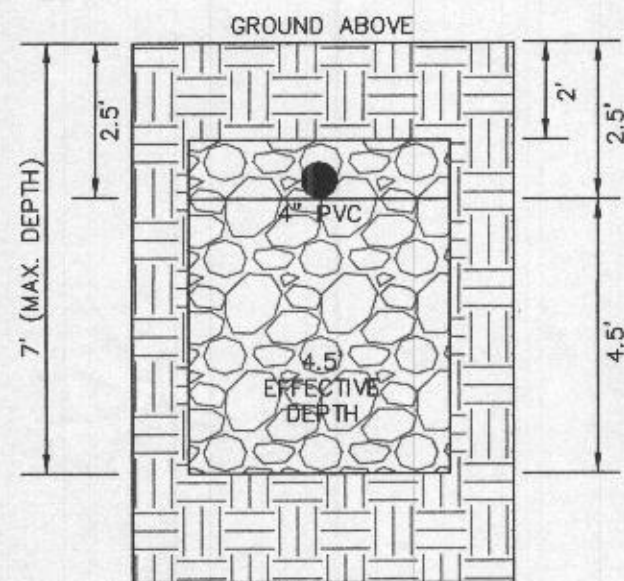
HOUSE OPTIONS:

- HOUSE TYPE: DUMONT (TRADITIONAL)
- THREE CAR SIDE ENTRY GARAGE CONFIGURATION
 - WALK-OUT BASEMENT
 - ADD 1' TO FOUNDATION WALLS
 - WALK-OUT LUXURY COVERED DECK
 - DOUBLE WIDE DRIVEWAY TAIL
 - OPTION 030 ADDITIONAL WALK IN CLOSET
 - THREE PIECE ROUGH IN TO BE LOCATED IN THE LOWER LEVEL
 - WET BAR ROUGH IN TO BE LOCATED IN THE LOWER LEVEL

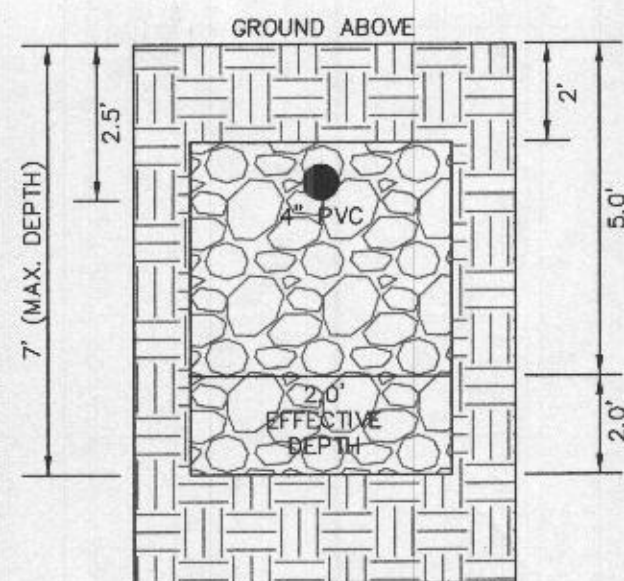
- OPTION No. 001
- OPTION No. 017
- OPTION No. 070
- OPTION No. 263169
- OPTION No. 851
- OPTION No. 90000012
- OPTION No. 90008013
- OPTION No. 90008014

INITIAL TRENCH DATA:

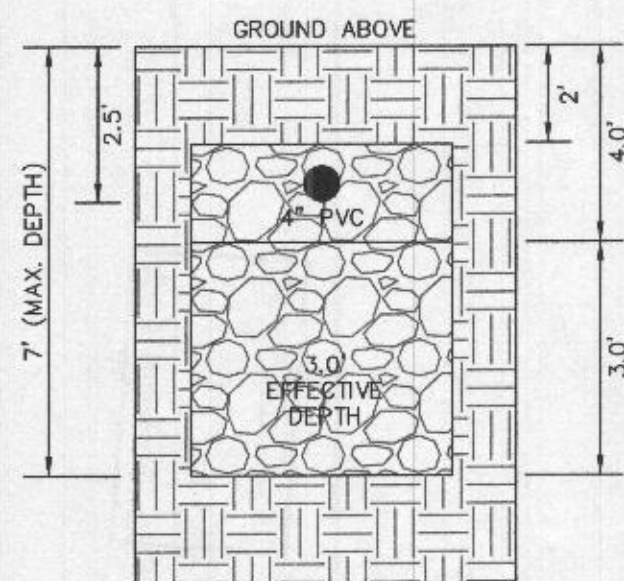
- BOTTOM MAX. DEPTH (7.0')
- TRENCH 1 (T1): 59.50 L.F.**
GROUND ABOVE = 546.7'
INV. IN = 544.20'
BOTTOM TRENCH = 539.7'
- TRENCH 2 (T2): 59.50 L.F.**
GROUND ABOVE = 545.7'
INV. IN = 543.20'
BOTTOM TRENCH = 538.7'



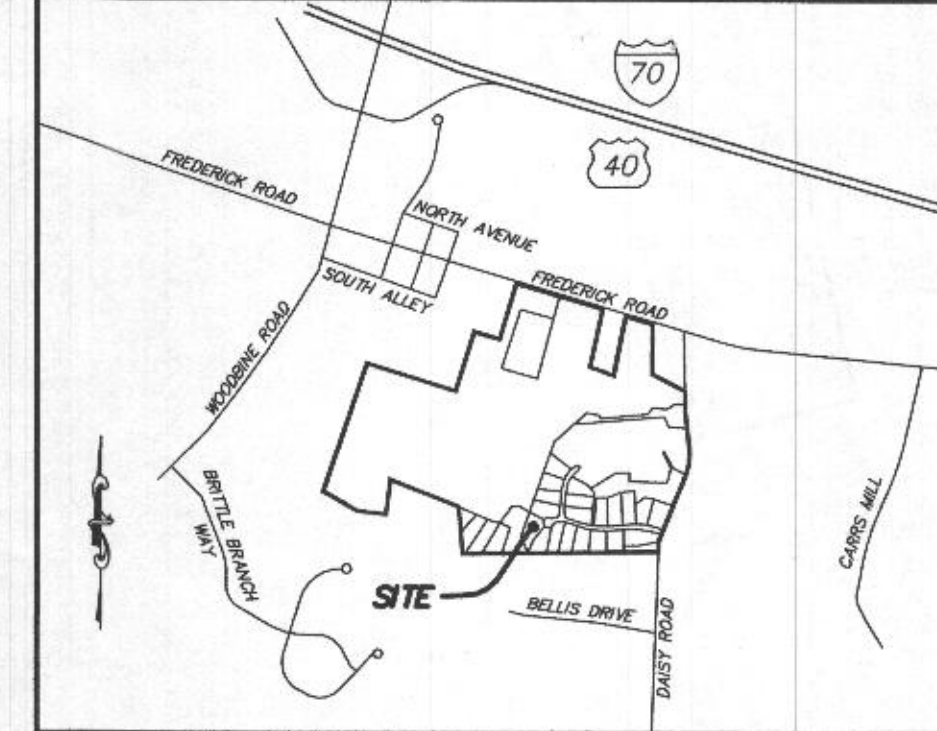
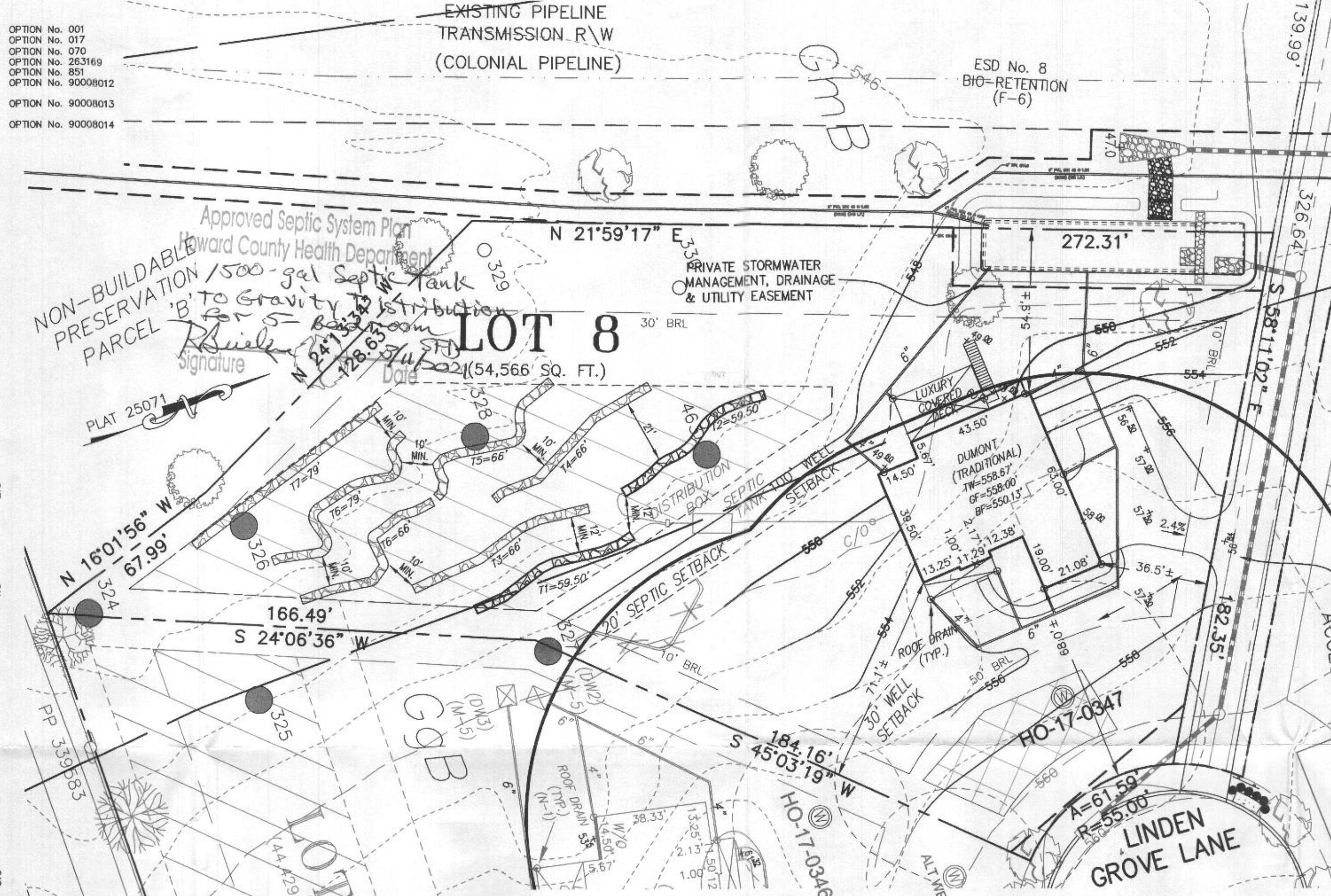
INITIAL SYSTEM TRENCH DETAIL (T1) AND (T2) (NOT TO SCALE)



1ST REPLACEMENT SYSTEM TRENCH DETAIL (T3) THRU (T6) (NOT TO SCALE)



2ND REPLACEMENT SYSTEM TRENCH DETAIL (T7) AND (T8) (NOT TO SCALE)



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.

- 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



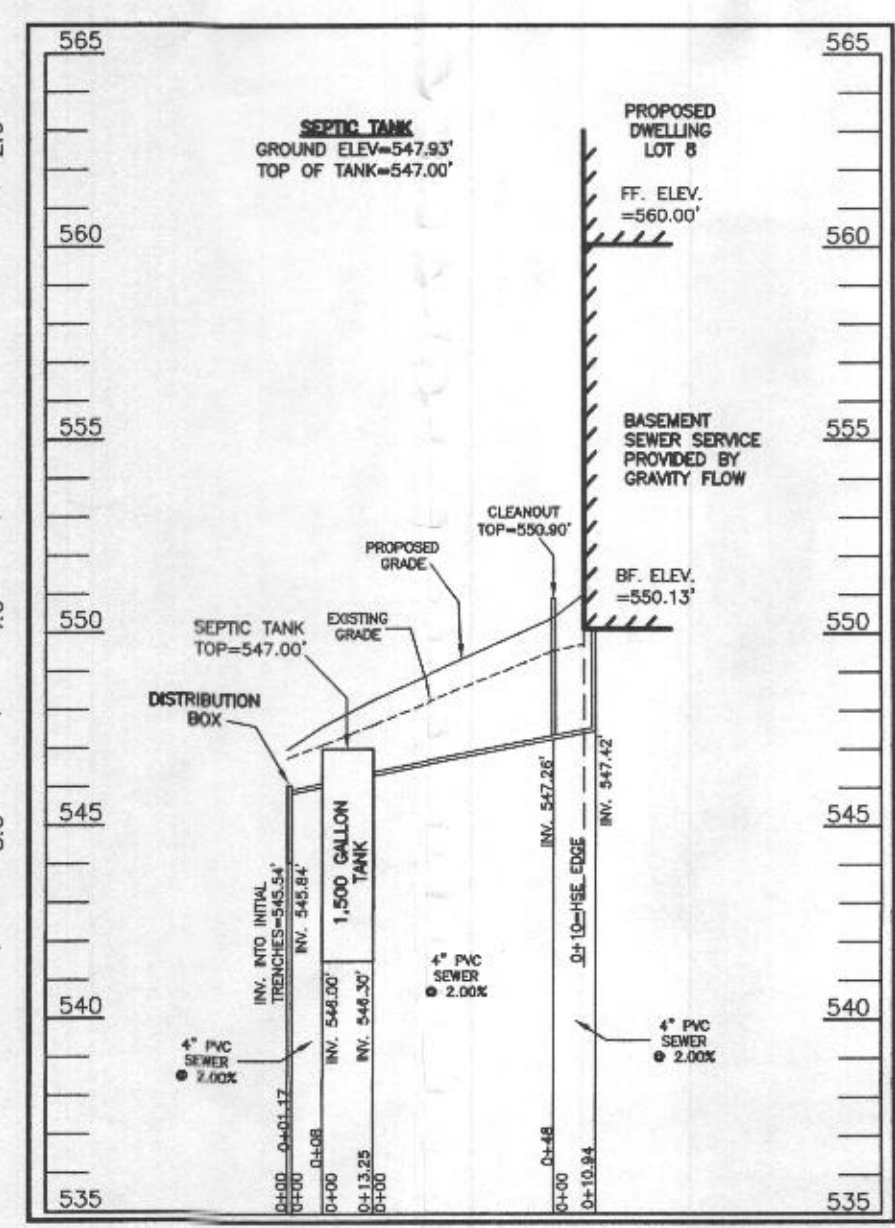
SOILS LEGEND

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

SEWAGE DISPOSAL SYSTEM DATA (5 BDRM)

- PROPOSED INVERT AT FOUNDATION WALL: 547.42'
- EX. GRADE OVER TANK: 547.37'
PROPOSED GRADE OVER TANK: 547.93'
INVERT IN: 546.30' INVERT OUT: 546.00'
 - DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 546.79'
PROPOSED GRADE OVER TANK: 547.03'
INVERT IN: 545.84' INVERT OUT: 545.54'
 - 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 54" GRAVEL BELOW PIPE
12' MIN. SPACING BETWEEN TRENCH EDGES
937.50 SF ÷ 3' WIDTH = 312.50 LF x 0.38 (SIDEWALL REDUCTION) = 118.75 LF MIN.
USE 2 59.50' LONG TRENCHES = 119 LF
 - 1ST REPLACEMENT TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)
750 GPD ÷ 0.6 APP. RATE = 1,250 SF
USE 3' WIDE TRENCH WITH 54" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
1,250 SF ÷ 3' WIDTH = 417 LF x 0.63 (SIDEWALL REDUCTION) = 262.50 LF MIN.
USE 4 66' LONG TRENCHES = 264 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 54" 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 2 79' LONG TRENCHES = 158 LF

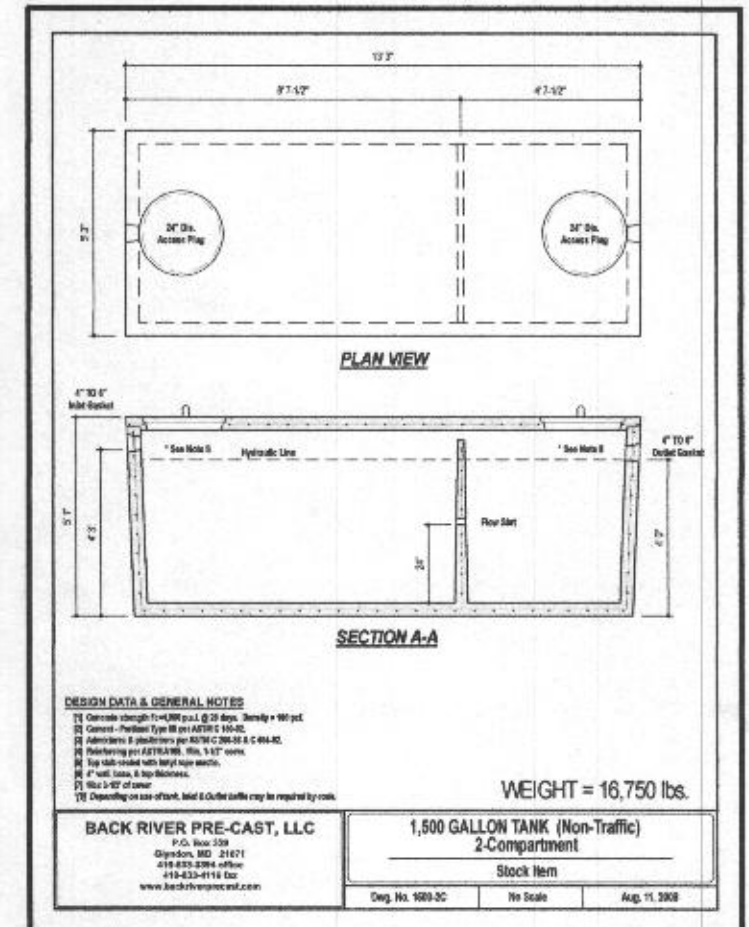


SEPTIC SYSTEM PROFILE
SCALE = HORIZONTAL: 1"=50'
VERTICAL: 1"=5'

WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR LOT 8 (TAG NO. HO-17-0347) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
LOT 8
LINDEN GROVE
LIBER 15899, FOLIO 246
PLAT NO. 25071
ELECTION DISTRICT No. 4
HOWARD COUNTY, MARYLAND
ADDRESS: 15633 LINDEN GROVE LANE
WOODBINE, MARYLAND 21797



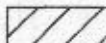
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7164 Columbia Gateway Drive • Suite 230 • Columbia, MD 21046
T: 410-872-9105

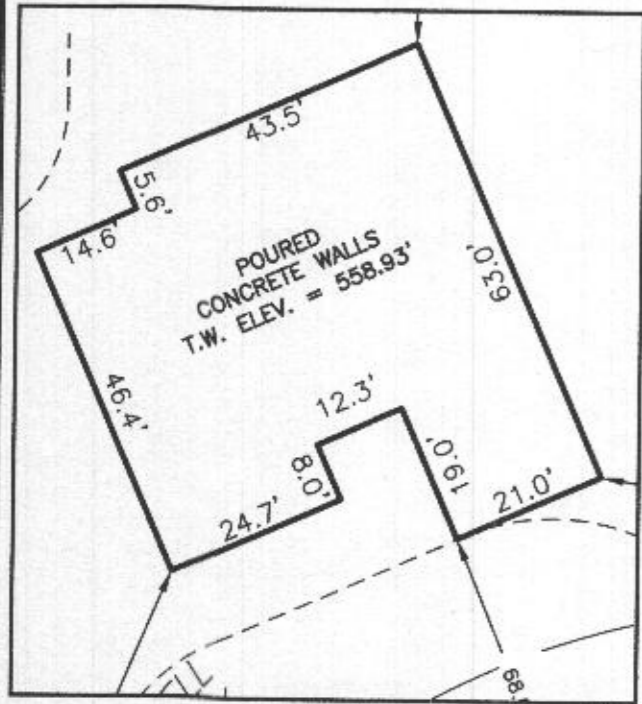
DATE: 02/08/2021 SCALE: 1" = 30' FILE: OSDS LOT 8
CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A FULLY 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. PROPOSED TOP OF WALL
- ELEV. ELEVATION

 SEPTIC RESERVE AREA



HOUSE ENLARGEMENT
NOT TO SCALE

WELL NUMBER: HO-17-0347
 ADDRESS: 15633 LINDEN GROVE LANE
 WOODBINE, MD 21797
 PERMIT No.: B21000405

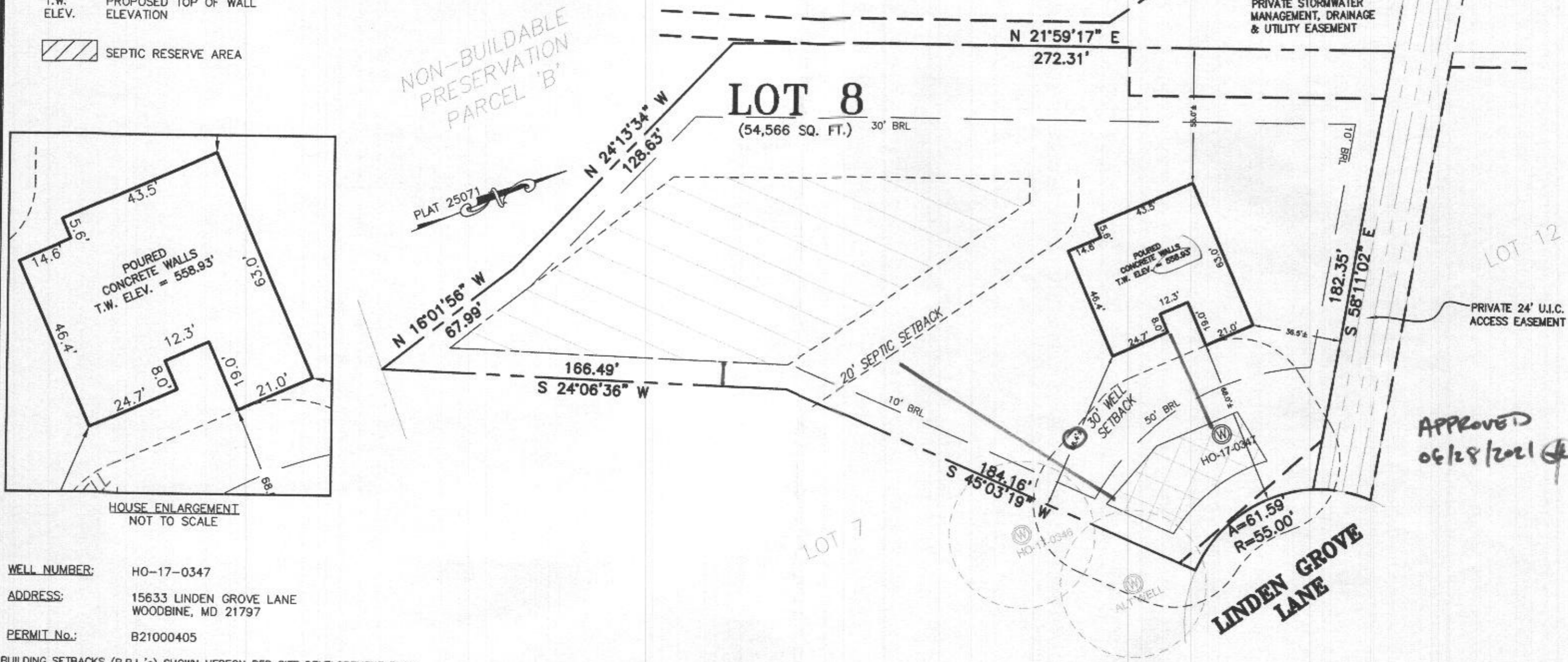
BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPEMENT PLAN
 SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.

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.

 21328 5/13/21
 SIGNATURE: MICHAEL JOE BOYCE MD. LIC NO. DATE



APPROVED
06/28/2021

WALLCHECK
 LOT 8
LINDEN GROVE
 LIBER 1619, FOLIO 341
 PLAT NO. 25071
 ELECTION DISTRICT No. 4
 HOWARD COUNTY, MARYLAND

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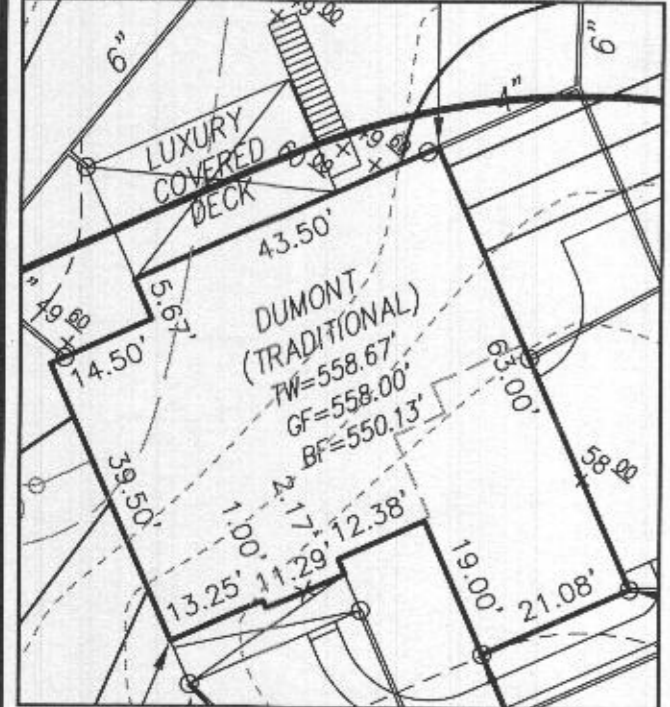
DATE: 05/13/2021 SCALE: 1" = 40' FILE: 4683 WC LOT 8
 CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.



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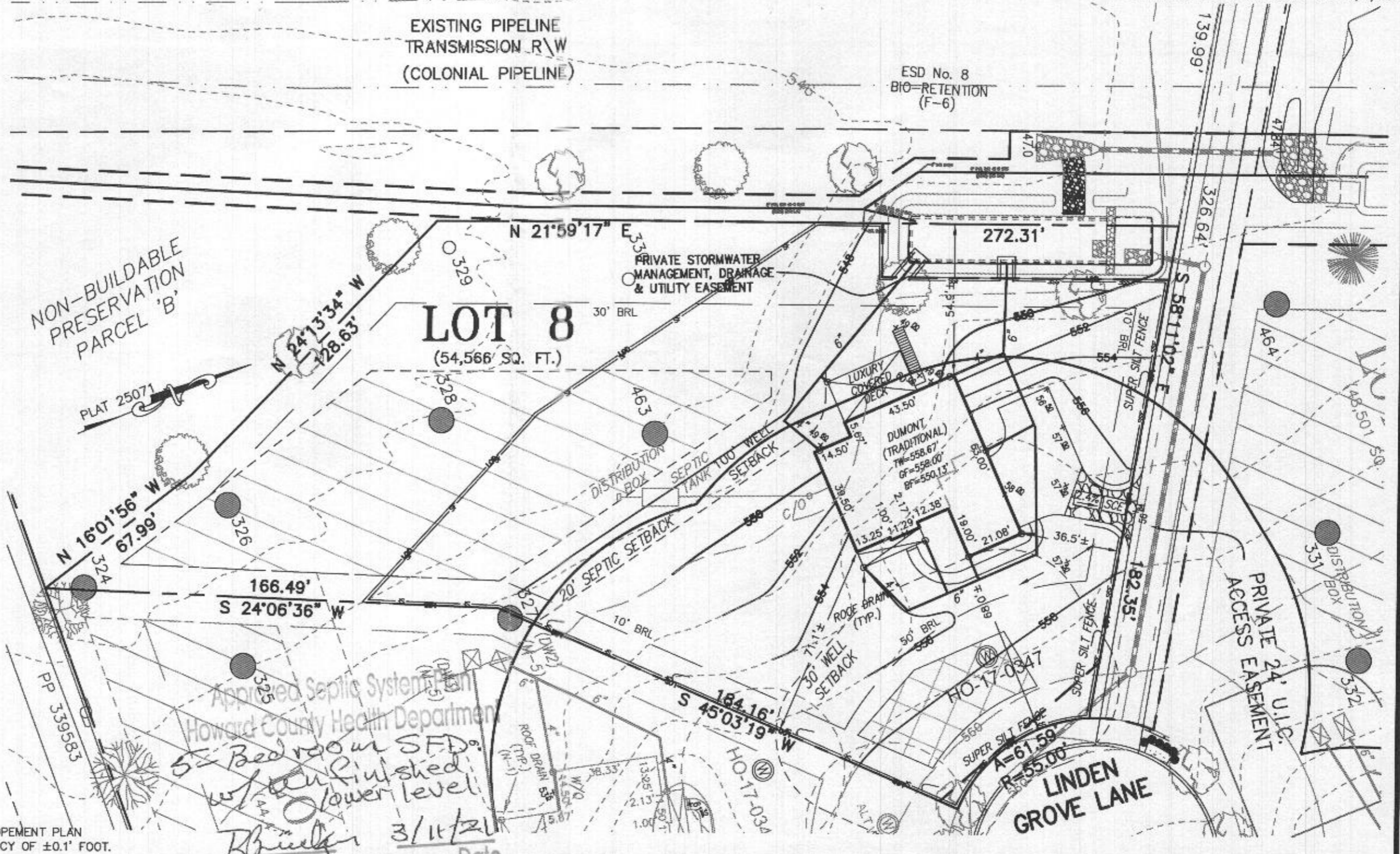
- LEGEND:**
- BRL BUILDING RESTRICTION LINE
 - ⊙ WELL LOCATION
 - T.W. TOP OF WALL
 - G.F. GARAGE FLOOR
 - B.F. BASEMENT FLOOR
 - PASSED PERC LOCATION
 - FAILED PERC LOCATION
 - SILT FENCE
 - SUPER SILT FENCE
 - SCE STONE CONSTRUCTION ENTRANCE
 - ▨ SEPTIC RESERVE AREA
 - ▩ WELL BOX AREA
 - ⊙ PROPOSED TREE
 - PROPOSED TREE
 - PROPOSED TREE

NOTE:
TOTAL LIMITS OF DISTURBANCE (LOD) = 36,746 SQ. FT.



HOUSE ENLARGEMENT
NOT TO SCALE
WELL NUMBER: HO-17-0347
ADDRESS: 15633 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: DUMONT (TRADITIONAL)

THREE CAR SIDE ENTRY GARAGE CONFIGURATION
WALK-OUT BASEMENT
ADD 1' TO FOUNDATION WALLS
WALK-OUT LUXURY COVERED DECK
DOUBLE WIDE DRIVEWAY TAIL
OPTION 030 ADDITIONAL WALK IN CLOSET
THREE PIECE ROUGH IN TO BE LOCATED IN THE LOWER LEVEL
WET BAR ROUGH IN TO BE LOCATED IN THE LOWER LEVEL

Signature: *R. Buckler*
Date: 3/11/21

OPTION No. 001
OPTION No. 017
OPTION No. 070
OPTION No. 263169
OPTION No. 851
OPTION No. 90008012
OPTION No. 90008013
OPTION No. 90008014

PLOT PLAN
LOT 8
LINDEN GROVE
LIBER 1619, FOLIO 341
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: 01/28/2021 SCALE: 1" = 40' FILE: 4683 PP LOT 8 DUMONT TRAD.
CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.

