



Howard County
Health Department

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: 3/26/20 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 567360

APPROVAL DATE: 04/15/2020 **PERMIT: CONSTRUCTION**

A

PROPERTY ADDRESS: 1735 Underwood Road

SUBDIVISION: Willow Brooke

LOT: 4

TAX ID: _____

CONTRACTOR: Bill Ingram/ Farm and Home Excavating

EMAIL: _____

CONTRACTOR ADDRESS: 901 Driver Road, Marriottsville, MD 21104

PHONE: 410-984-0189

PROPERTY OWNER: WILLIAM & TARA WHITEMAN

EMAIL: _____

OWNER ADDRESS: 2722 TURF VALLEY GOLD ROAD #764

PHONE: 973-903-3258

SEPTIC TANK SIZE (GALLONS): 1500

TANK MANUFACTURER: Babylon, Inc.

PUMP MODEL: _____

PUMP SIZE _____

PUMP TANK CAPACITY: _____

DISTRIBUTION SYSTEM: ☒ GRAVITY

☐ PRESSURE DOSED

BEDROOMS: 6

APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>175</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Four trenches @ 44 feet long.	

ISSUED BY: Dana Bernard

ISSUE DATE: 3/27/20

EXPIRATION DATE: 3/26/21

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.

279189279189

NOT TO SCALE

(W) Ho-17-0358

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	3'	8'
NUMBER OF TRENCHES		4
TOTAL LENGTH		186 F
ABSORPTION AREA		558 SF + SIDE WALL
DISTRIBUTION BOX LEVEL		SPEED
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

PRE-CONSTRUCTION:**SEPTIC TANK DATA**

SEPTIC TANK 1 LEVEL

MANUFACTURER BABYLON

CAPACITY 1500 GAL

SEAM LOC TOP

TANK LID DEPTH 1'

BAFFLES YES

BAFFLE FILTER NO

MANHOLE LOC FRONT/BACK

6" PORT LOC -

WATERTIGHT TEST -

SLOTTED YES

DATE ON LID 02/10/2020

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 _____

04/06/2020 CONFIRMED CONTOUR ON 4X 44' TRENCHES. PLUMBING NOT DONE ON HOUSE. MIGHT NOT MAKE INLET ON FAR TRENCHES TO D BOX. KEEP AS HIGH AS POSSIBLE. CALL IF PROBLEM. (C)

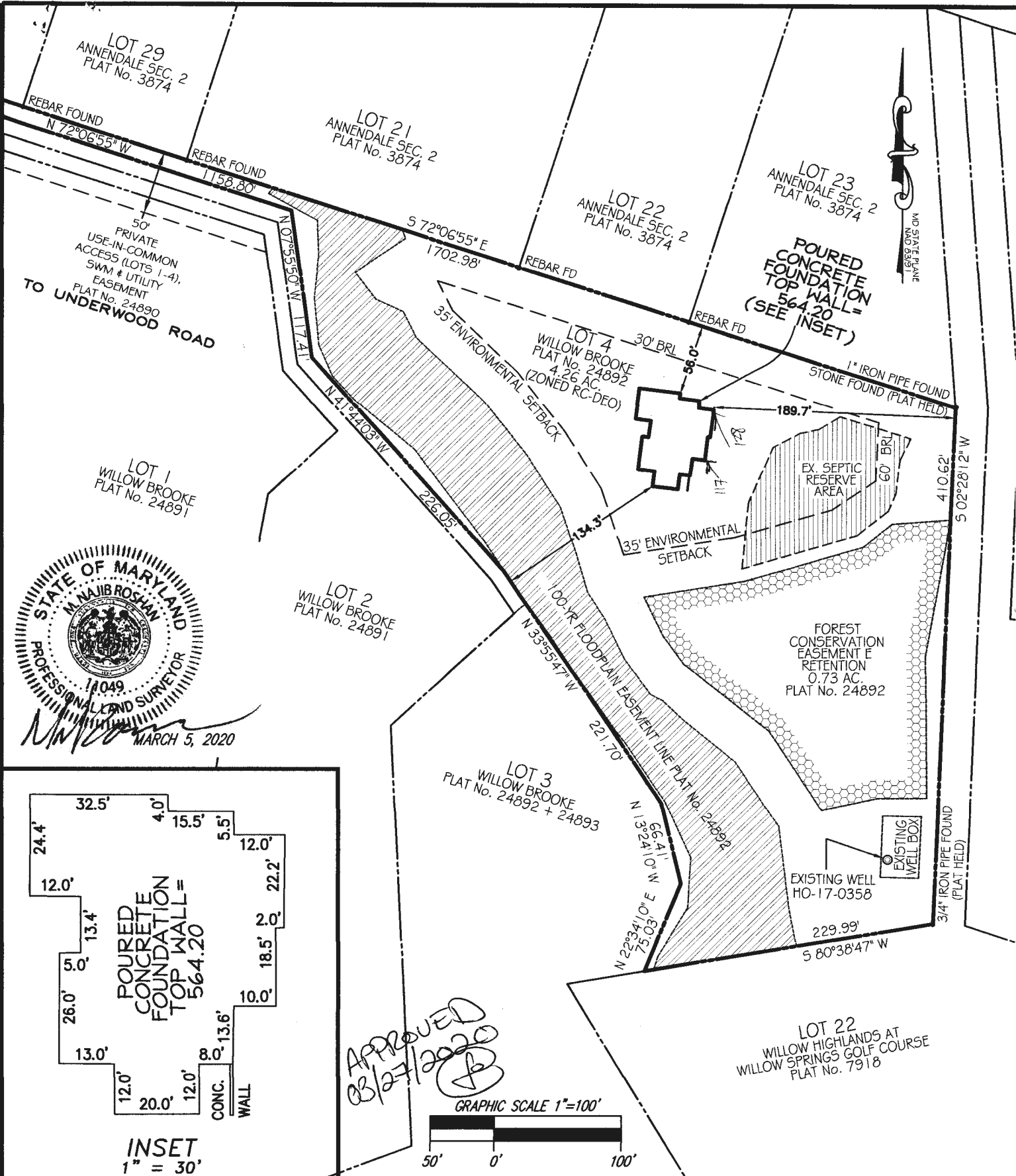
* COVID-19 OUTBREAK

INSTALLATION: 04/12/2020 2 TRENCH COMPLETE. OK TO BACKFILL VISUAL ON 90% COMPLETION OF TRENCH. (C) 04/15/2020 TRENCHES COMPLETE. D BOX LEVELLED W/ SPEED LEVELS. OK TO BACKFILL (+)

FINAL INSPECTOR

DATE OF APPROVAL

04/15/2020



WALL CHECK SURVEY
WILLOW BROOKE
LOT 4
 PLAT No. 24889-24893
 1735 UNDERWOOD ROAD,
 SYKESVILLE, MD 21784
 TAX MAP 9, GRID 21, PARCEL 328
 3RD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

DESIGNED BY: NJ
 CHECKED BY: WR
 SCALE: 1" = 100'
 DATE: MARCH 2, 2020
 PROJECT No. 3557
 SHEET: 1 OF 1

PREPARED BY: 

NJR & ASSOCIATES, LLC.
LAND SURVEYING AND PLANNING
 2770 STATE ROUTE 32
 WEST FRIENDSHIP, MD 21794
 TEL: (240) 508-3200

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

MEMORANDUM

TO: NJR & Associates
2770 Route 32
West Friendship, MD 21794

FROM: Hank Oswald, L.E.H.S.
Well & Septic Program

RE: OSDS Plan
Willow Brooke, Lot 4

Date: December 18, 2019

The following comment pertains to the review of the OSDS Plan for **Willow Brooke, Lot 4**:

- 1.) Show trenches on contour.

LOT 23
ANNENDALE SEC. 2
PLAT No. 3874

LOT 22
ANNENDALE SEC. 2
PLAT No. 3874

1-1/2" TALL REBAR FD

EX. WOOD SHED

EX. WOOD SHED

EX. WIRE FENCE

EX. REBAR FD

EX. SPLIT RAIL FENCE

EX. GATE

EX. SPLIT RAIL FENCE

PROP. ASPHALT DRIVEWAY

PROP. STOCKPILE

PROP. 2-STORY HOUSE WITH BASEMENT
FF=568.9
BF=558.9

PROP. PORCH

PROP. CONC. WALK

GgB
BaA

35' ENVIRONMENTAL SETBACK

35' ENVIRONMENTAL SETBACK

PROP. WATER TAP

EX. EDGE OF WOODS

PROP. 1ST REPLACEMENT SYSTEM

PROP. DISTRIBUTION INV.=557.0

PROP. 1,500 GAL. SEPTIC TANK
INV. IN=557.4
INV. OUT=557.1

PROP. 4" @ 2% SLOPE

PROP. INITIAL TRENCH-1

PROP. INITIAL TRENCH-2

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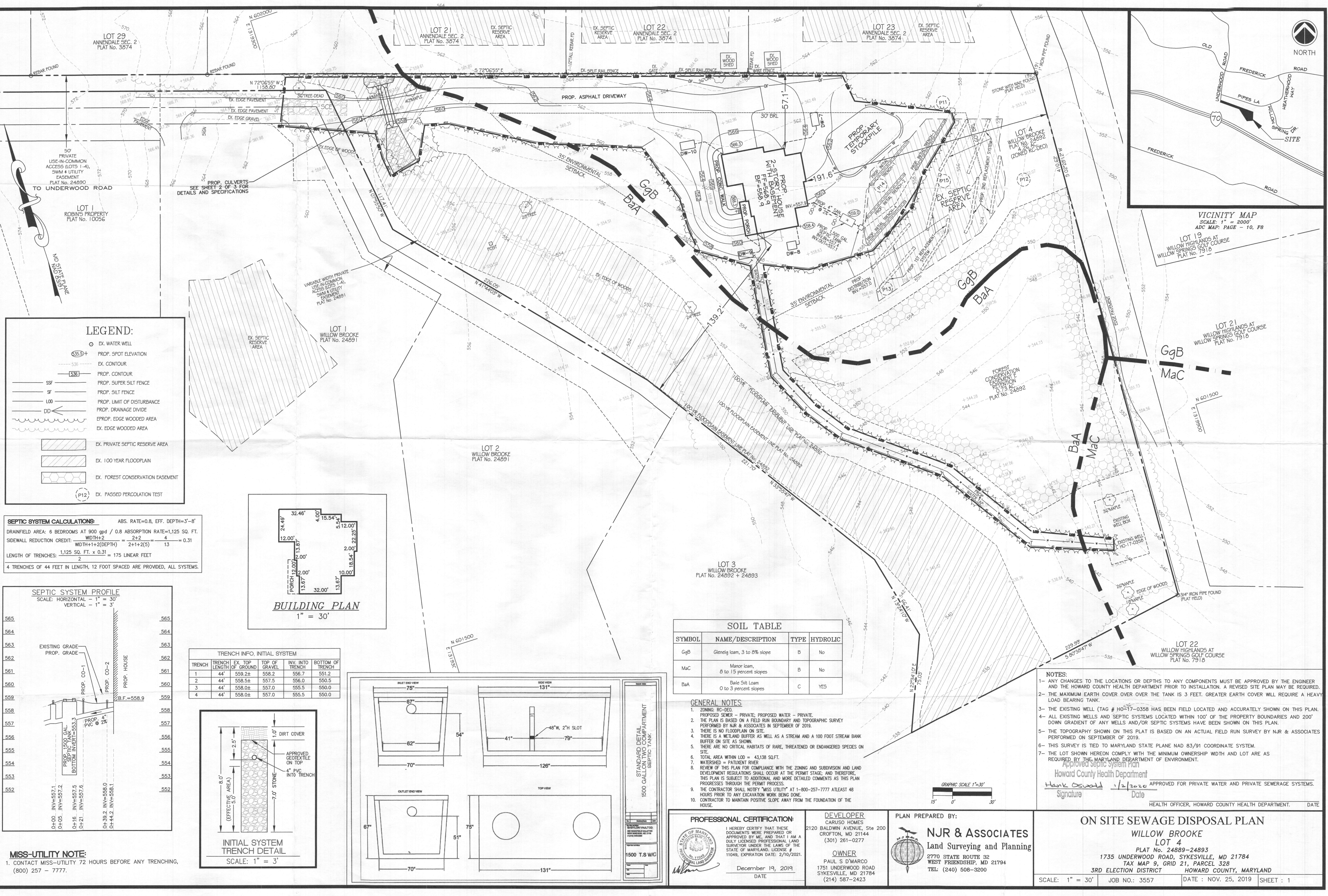
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LEGEND:

- EX. WATER WELL
- PROP. SPOT ELEVATION
- EX. CONTOUR
- PROP. CONTOUR
- SSF PROP. SUPER SILT FENCE
- SF PROP. SILT FENCE
- LDD PROP. LIMIT OF DISTURBANCE
- DD PROP. DRAINAGE DIVIDE
- EP/PROP. EDGE WOODED AREA
- EX. EDGE WOODED AREA
- EX. PRIVATE SEPTIC RESERVE AREA
- EX. 100 YEAR FLOODPLAIN
- EX. FOREST CONSERVATION EASEMENT
- (P12) EX. PASSED PERCOLATION TEST

SEPTIC SYSTEM CALCULATIONS:

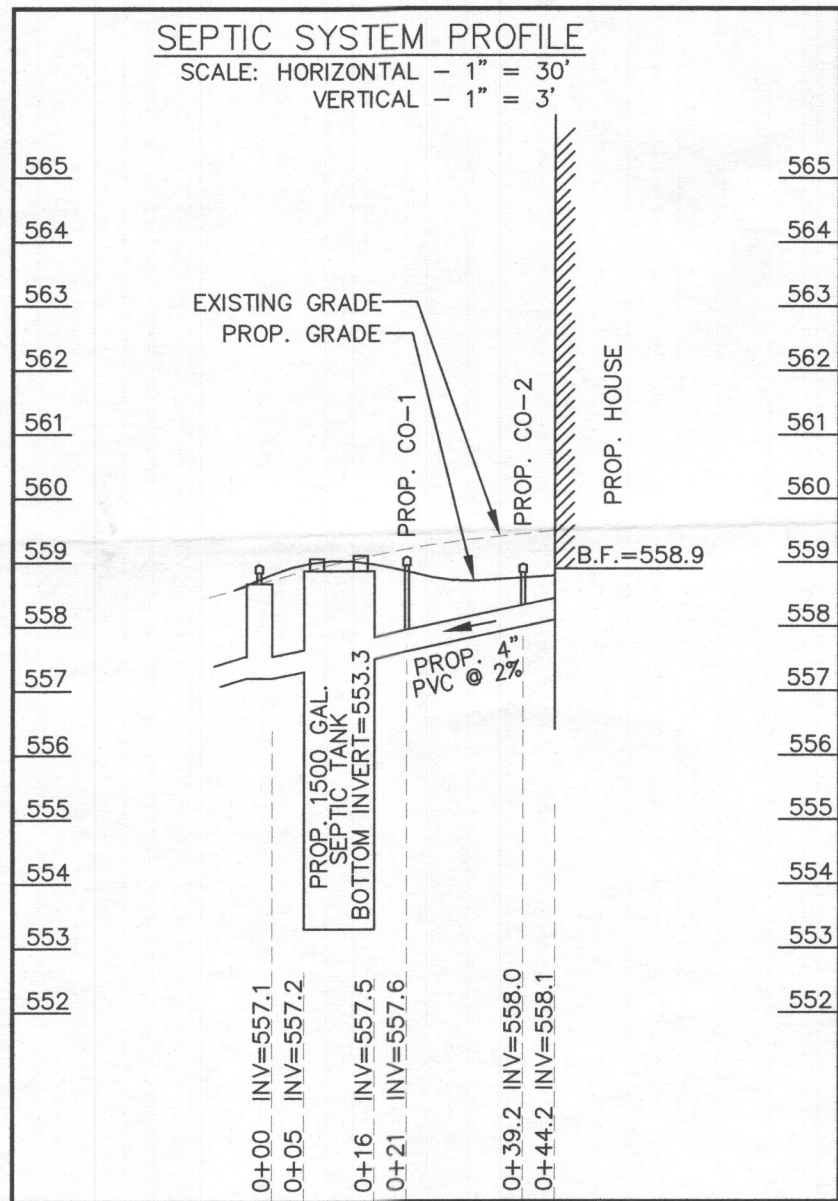
ABS. RATE=0.8, EFF. DEPTH=3'-8"

DRAINFIELD AREA: 6 BEDROOMS AT 900 gpd / 0.8 ABSORPTION RATE=1,125 SQ. FT.

SIDEWALL REDUCTION CREDIT: $\frac{WIDTH+2}{2+1+2(5)} = \frac{4}{13} = 0.31$

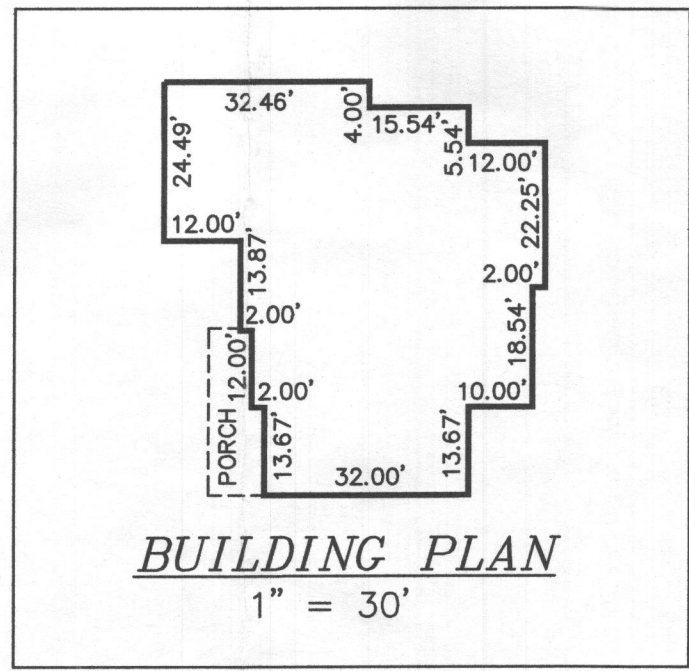
LENGTH OF TRENCHES: $\frac{1,125 \text{ SQ. FT.} \times 0.31}{2} = 175 \text{ LINEAR FEET}$

4 TRENCHES OF 44 FEET IN LENGTH, 12 FOOT SPACED ARE PROVIDED, ALL SYSTEMS.

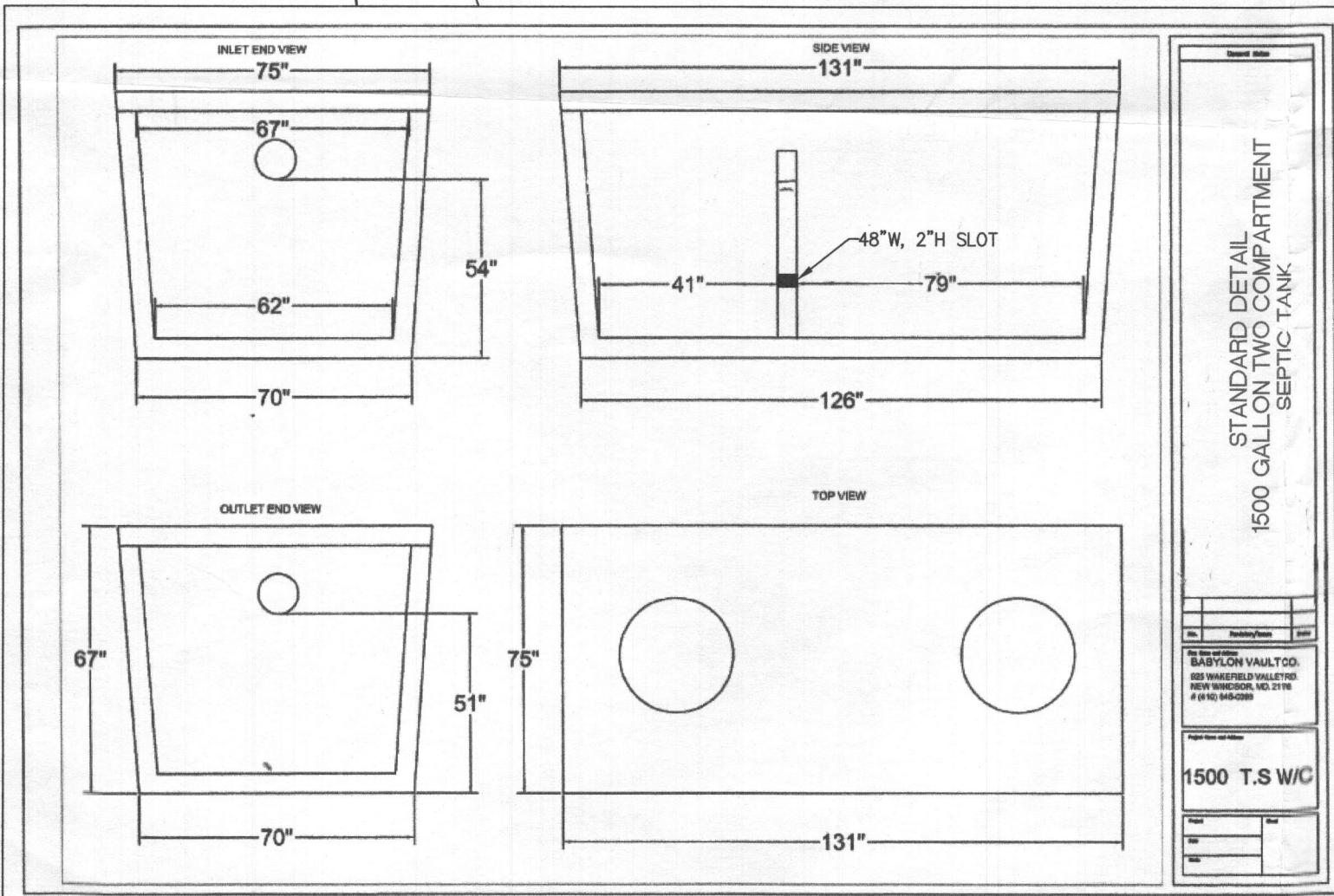
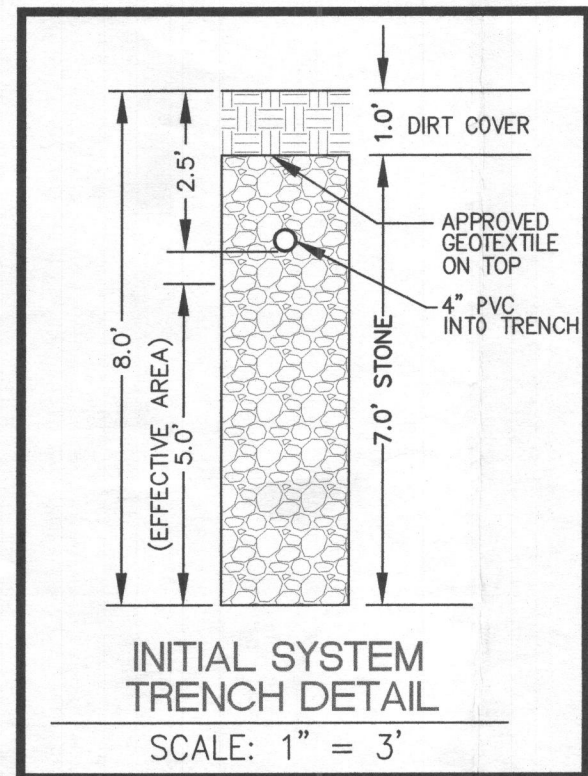


MISS-UTILITY NOTE:

1. CONTACT MISS-UTILITY 72 HOURS BEFORE ANY TRENCHING.
(800) 257 - 7777.



TRENCH INFO, INITIAL SYSTEM				
TRENCH	TRENCH LENGTH	EX. TOP OF GROUND	TOP OF GRAVEL	INV. INTO TRENCH
1	44'	559.2±	558.2	556.7
2	44'	558.5±	557.5	556.0
3	44'	558.0±	557.0	555.5
4	44'	558.0±	557.0	555.5



SOIL TABLE			
SYMBOL	NAME/DESCRIPTION	TYPE	HYDROLOGIC
GgB	Glenns loam, 3 to 8% slope	B	No
MaC	Manor loam, 8 to 15 percent slopes	B	No
BaA	Baile Silt Loam 0 to 3 percent slopes	C	YES

- GENERAL NOTES**
1. ZONING: RC-DEO.
 2. PROPOSED SEWER - PRIVATE; PROPOSED WATER - PRIVATE.
 3. THE PLAN IS BASED ON A FIELD RUN BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED BY NJR & ASSOCIATES IN SEPTEMBER OF 2019.
 4. THERE IS NO FLOODPLAIN ON SITE.
 5. THERE IS A WETLAND BUFFER AS WELL AS A STREAM AND A 100 FOOT STREAM BANK BUFFER ON SITE AS SHOWN.
 6. THERE ARE NO CRITICAL HABITATS OF RARE, THREATENED OR ENDANGERED SPECIES ON SITE.
 7. TOTAL AREA WITHIN LOD = 43,138 SQ.FT.
 8. WATERSHED = PATUXENT RIVER.
 9. REVIEW OF THIS PLAN FOR COMPLIANCE WITH THE ZONING AND SUBDIVISION AND LAND DEVELOPMENT REGULATIONS SHALL OCCUR AT THE PERMIT STAGE, AND THEREFORE, THIS PLAN IS SUBJECT TO ADDITIONAL AND MORE DETAILED COMMENTS AS THIS PLAN PROGRESSES THROUGH THE PERMIT PROCESS.
 10. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 ATLEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
 11. CONTRACTOR TO MAINTAIN POSITIVE SLOPE AWAY FROM THE FOUNDATION OF THE HOUSE.

PROFESSIONAL CERTIFICATION:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE # 11049, EXPIRATION DATE: 2/10/2021.

December 19, 2019
DATE

DEVELOPER
CARUSO HOMES
2120 BALDWIN AVENUE, Ste 200
CROFTON, MD 21114
(301) 261-0277

OWNER
PAUL S D'MARCO
1751 UNDERWOOD ROAD
SYKESVILLE, MD 21784
(214) 587-2423

PLAN PREPARED BY:

NJR & ASSOCIATES
Land Surveying and Planning
2770 STATE ROUTE 32
WEST FRIENDSHIP, MD 21794
TEL: (240) 508-3200

- NOTES:**
- 1- 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.
 - 2- THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
 - 3- THE EXISTING WELL (TAG # HO-17-0358) HAS BEEN FIELD LOCATED AND ACCURATELY SHOWN ON THIS PLAN.
 - 4- ALL EXISTING WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN ON THIS PLAN.
 - 5- THE TOPOGRAPHY SHOWN ON THIS PLAN IS BASED ON AN ACTUAL FIELD RUN SURVEY BY NJR & ASSOCIATES PERFORMED ON SEPTEMBER OF 2019.
 - 6- THIS SURVEY IS TIED TO MARYLAND STATE PLANE NAD 83/91 COORDINATE SYSTEM.
 - 7- THE LOT SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT ARE AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT.

Howard County Health Department
APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.
Signature: *Hank Oswald* Date: 1/2/2020
HEALTH OFFICER, HOWARD COUNTY HEALTH DEPARTMENT. DATE

ON SITE SEWAGE DISPOSAL PLAN
WILLOW BROOKE
LOT 4
PLAT No. 24889-24893
1735 UNDERWOOD ROAD, SYKESVILLE, MD 21784
TAX MAP 9, GRID 21, PARCEL 328
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE: 1" = 30' JOB NO.: 3557 DATE: NOV. 25, 2019 SHEET: 1