



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: 12-13-22 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 572721

APPROVAL DATE: 3/20/2023 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 8236 White Pine Court

SUBDIVISION: Fulton Hill

LOT: 5

TAX ID: _____

CONTRACTOR: Freedom Septic

EMAIL: Kristy@freedomseptic.com

CONTRACTOR ADDRESS: 2809 Liberty Road

PHONE: _____

PROPERTY OWNER: Matthew Aloth

EMAIL: _____

OWNER ADDRESS: 4904 Valley View Overlook, Ellicott City, MD 21042

PHONE: 410-980-9868

SEPTIC TANK SIZE (GALLONS): 2000

TANK MANUFACTURER: Babylon

PUMP MODEL: _____

PUMP SIZE _____

PUMP TANK CAPACITY: _____

DISTRIBUTION SYSTEM: ☒ GRAVITY

☐

PRESSURE DOSED

BEDROOMS: 6

APPLICATION RATE: _____

TRENCHES:	LINEAR FEET REQUIRED: <u>104'</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>11</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:		

ISSUED BY: Hank Oswald

ISSUE DATE: 12/13/2022 EXPIRATION DATE: 12/13/2023

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

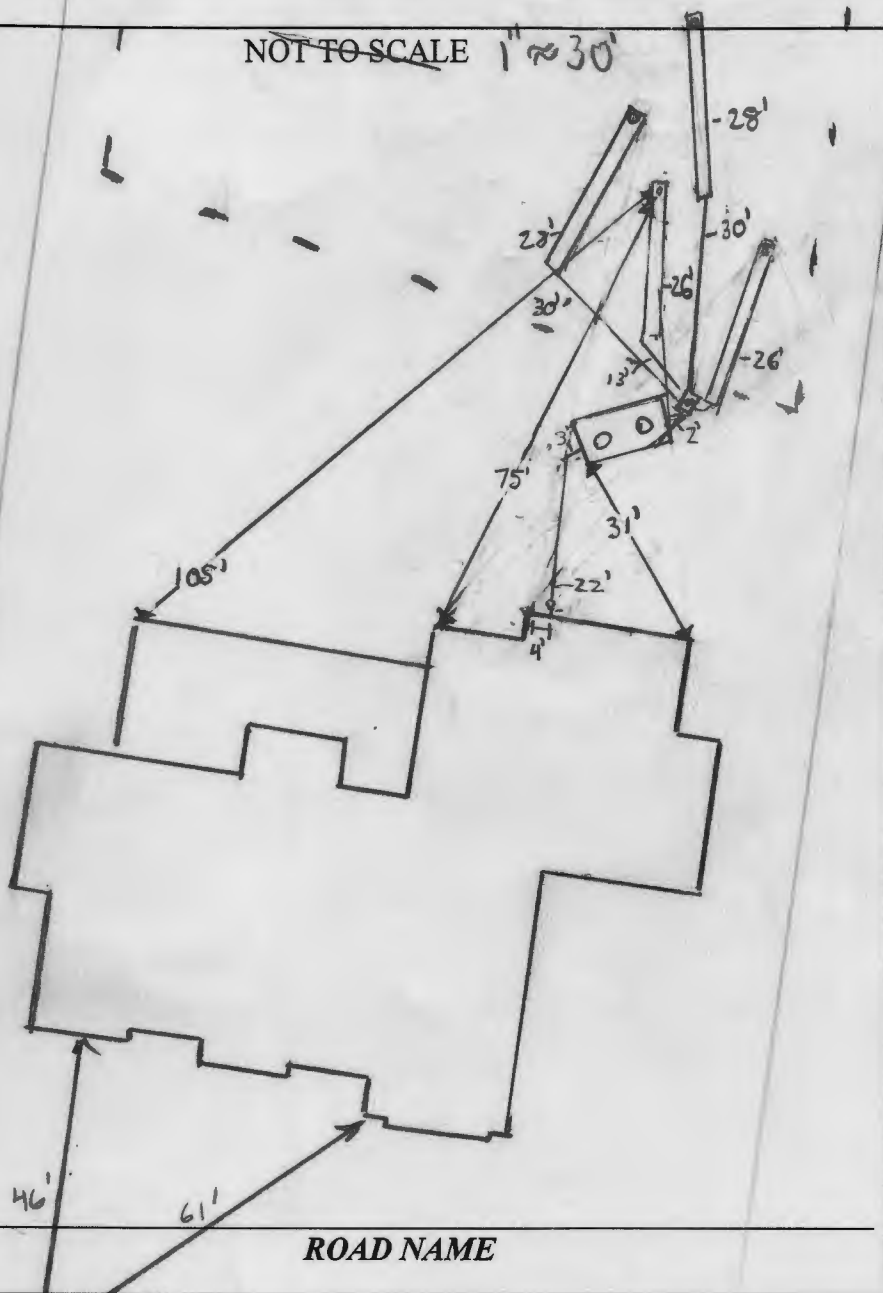
NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

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 1" = 30'



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3	1.5-2.5	8
NUMBER OF TRENCHES		4
TOTAL LENGTH		108
ABSORPTION AREA		324 ft ²
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		yes

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	yes
MANUFACTURER	B2bylon
CAPACITY	2000 GAL
SEAM LOC	Top
TANK LID DEPTH	2' - 1.5'
BAFFLES	6" front & 4" back
BAFFLE FILTER	
MANHOLE LOC	Front & back
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	yes
DATE ON LID	1/23/2023

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:

HO-18-0166

2/28/2023 Onsite for pre-construction. SPA staked. Tank location staked. Elevation confirmed in field. OK to install system per plan. (K)

INSTALLATION: 3/2/2023 - Saw connection from tank to house. 45° bend used closer to tank. SCH 40 pipe used. Baffles not seen, installer waiting for rim to plow to set a bar & install baffles. 17' Fall from house achieved. (P)

3/20/2023 - 1, & 1/2 had been undercut due to constraints of site. Started digging 1/4, put fill on septic area for 1/2 & 1. Installer undercut the amount of height of both trenches. Both inlets about 1' shallower. 1/4 & 1/2 inlet @ 2.5 per plan. Installer stated he used laser during excavation of trench. O-box has baffles & was leveled. Saw tank baffles & slot. 1/2 had been completely backfilled for machinery to maneuver area, told installer to let Health Department know beforehand if he needed to backfill. (P)

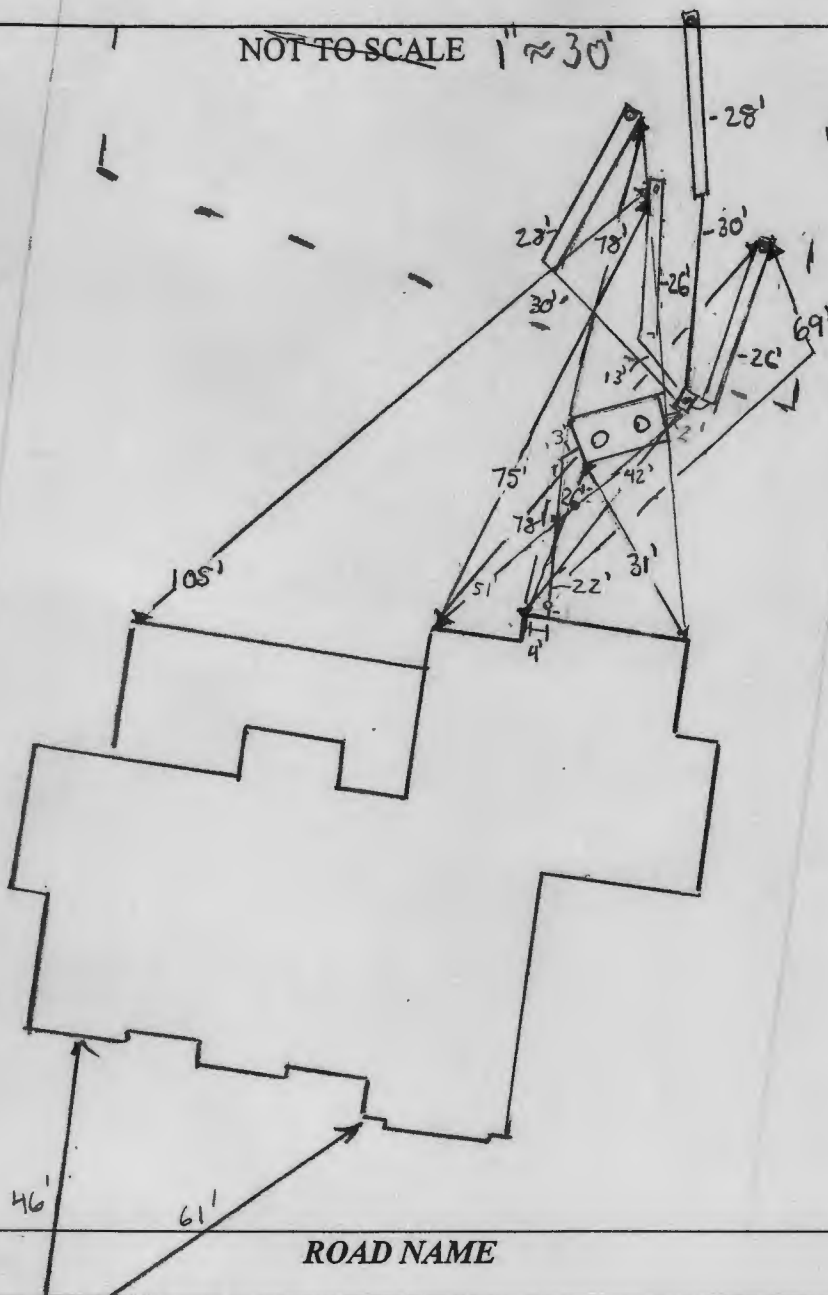
FINAL INSPECTOR

Shepura Page

DATE OF APPROVAL

3/20/2023

NOT TO SCALE 1" = 30'



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3	1.5-2.5	8
NUMBER OF TRENCHES		4
TOTAL LENGTH		108
ABSORPTION AREA		324 ft ²
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		yes

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	yes
MANUFACTURER	Babylon
CAPACITY	2000 GAL
SEAM LOC	top
TANK LID DEPTH	2'-1.5'
BAFFLES	6" front & 4" back
BAFFLE FILTER	
MANHOLE LOC	front & back
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	yes
DATE ON LID	1/23/2023
PUMP/SEPTIC TANK LEVEL	N/A
MANUFACTURER	
CAPACITY	GAL
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

PRE-CONSTRUCTION:

HO-18-0166

2/28/2023 for SPA staked. tank location staked. Flow lines marked in field. DO to install system per plan.

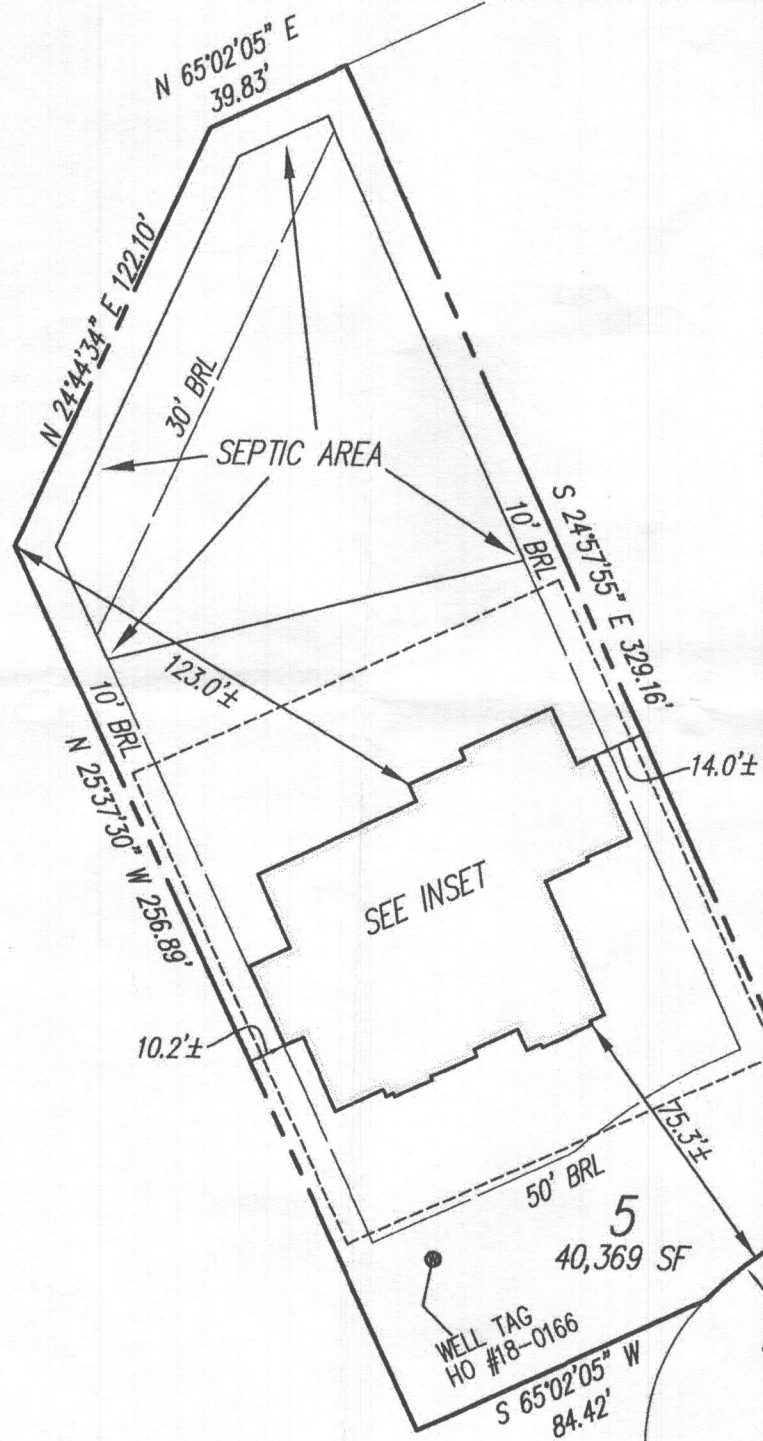
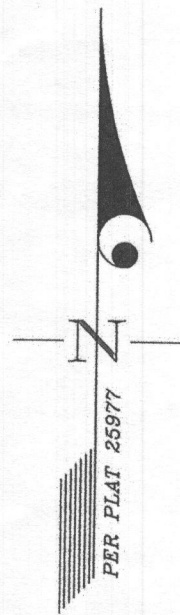
INSTALLATION: 3/2/2023 - saw connection from tank to house. 45° bend used closer to tank. SCH 40 pipe used. Baffles not seen, installer waiting for rain to pass to set a box & install baffles. 17' Fall from house achieved. (SP)

3/20/2023 - 1₁ & 1₂ had been undercut due to constraints of site. started digging 1₁, put fill on septic area for 1₂ & 1₃. Installer undercut the amount of height of both trenches. Both inlets about 1' shallower. 1₁ & 1₂ inlet @ 2.5 per plan. Installer stated he used laser during excavation of trench. 0-box has baffles & was leveled. Saw tank baffles & slot. 1₂ had been completely backfilled for machinery to maneuver area, told installer to let Health Department know beforehand if he needed to backfill. (SP)

FINAL INSPECTOR Shepsura Page DATE OF APPROVAL 3/20/2023

S:\Survey Drawings\WALLCHECK\FULTON HILL-21096\WCK\21096WCK-5.dwg, 12/5/2022 9:56:24 AM, billk, 1:1

BUILDABLE
PRESERVATION
PARCEL 'A'




Wall Check
OK
12-14-22

WHITE PINE COURT
(LOCAL PUBLIC ROAD) (50' R/W)

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY TO:
'CAIRN HOMES.'

THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF,
THE POSITION OF THIS BUILDING FOUNDATION
HAS BEEN ESTABLISHED BY ACCEPTED FIELD PRACTICES.

 12/5/2022
For Gutschick, Little and Weber, P.A. :
Thomas C. O'Connor, Jr.,
Professional Land Surveyor, No. 10954 (EXP. DATE: 07/03/2024)

THIS WALLCHECK IS VALID ONLY WITH AN ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE ABOVE SURVEYOR.

NOTES:

THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT.
THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS-OF-WAY, 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.

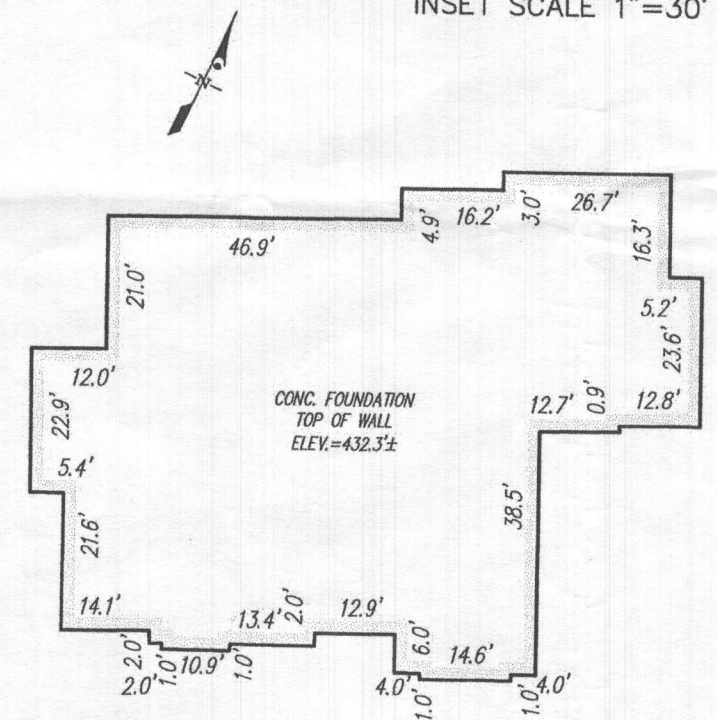
THIS IS NOT A "LOCATION DRAWING" AND IS NOT TO BE USED FOR
SETTLEMENT PURPOSES.

THE PROPERTY SHOWN HEREON LIES WITHIN ZONE X (AREAS DETERMINED TO BE OUTSIDE
THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON THE F.E.M.A. FLOOD INSURANCE
RATE MAP, MAP NUMBER 24027C0145D, EFFECTIVE DATE NOVEMBER 6, 2013.

BUILDING SETBACKS (B.R.L.'S) SHOWN HEREON PER PLAT 25977.

SETBACK DISTANCES SHOWN HEREON ARE TO THE OUTERMOST FACE OF THE FOUNDATION
WALLS AND HAVE AN ACCURACY OF $\pm 0.1'$ FOOT.

INSET SCALE 1"=30'



WALLCHECK
(SPECIAL PURPOSE SURVEY)

FULTON HILL

LOT 5
8236 WHITE PINE COURT

HOWARD COUNTY, MARYLAND

DATE OF LATEST FIELD WORK: 12/02/2022

G.L.W. FILE No. 21096

REFERENCE : PLAT No.: 25977

SCALE: 1"=50'



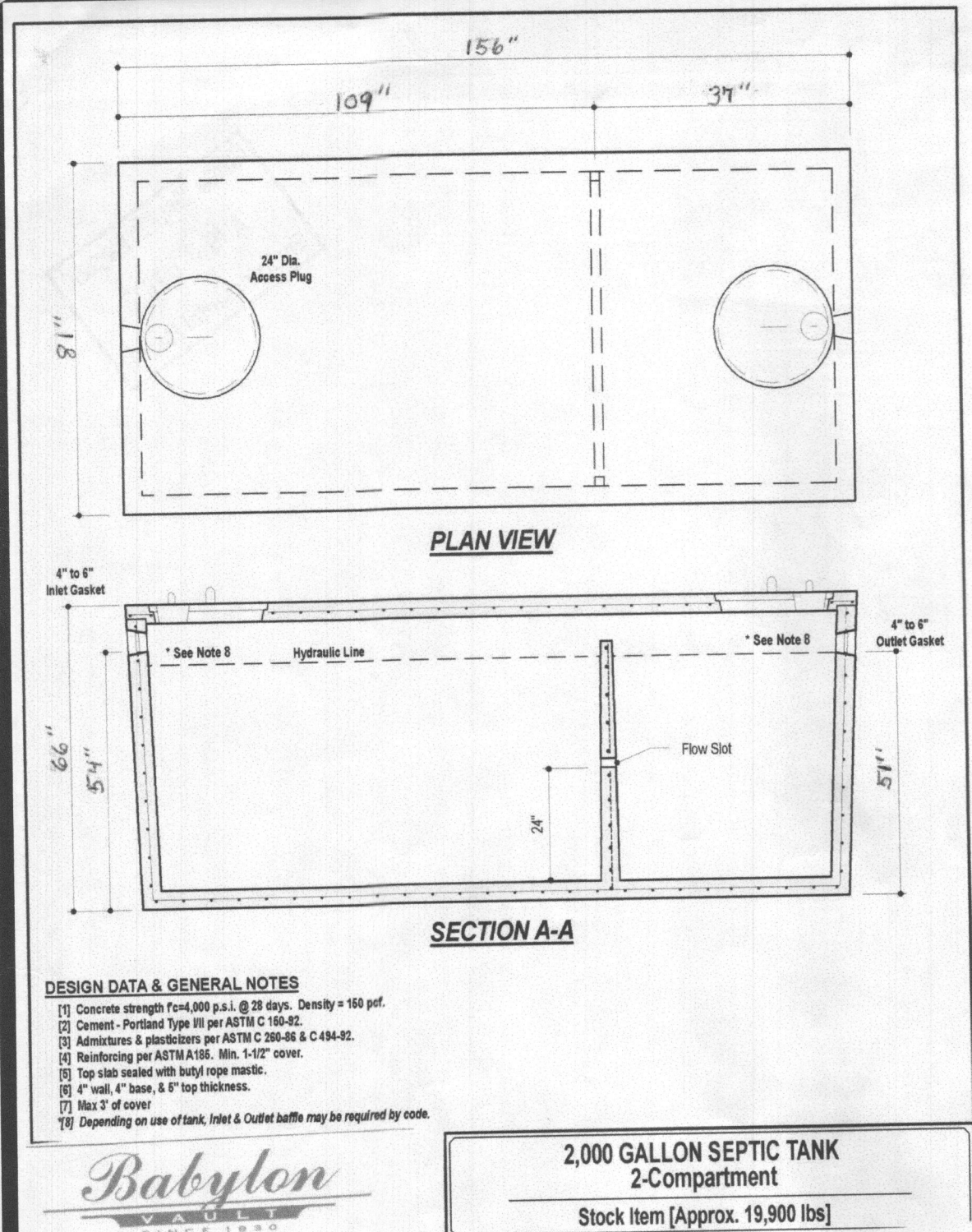
DES.
DRN. WDK
CHK.

PREPARED FOR:
CAIRN HOMES
10548 GORMAN ROAD
LAUREL, MD
20723

S:\Survey Drawings\WALLCHECK\FULTON HILL-21096\WCK\21096WCK-5.dwg

© GLW 2022

WS-SR-4 PR-22-00303



- SEPTIC TANK CONSTRUCTION AND INSTALLATION NOTES:
- TANK TO BE ASTM C1227-20 AND HOWARD COUNTY CODE COMPLIANT AND INCLUDE A PROPERLY POSITIONED INLET 1-DAPPLE EXTENDED INTO THE TANK AIR SPACE AT LEAST 8-INCHES ABOVE THE LIQUID LEVEL, BUT AT LEAST 1-INCH BELOW THE TOP, CONSTRUCTED OF NOT LESS THAN SCHEDULE 40 PVC.
 - CONCRETE SHALL NOT BE LESS THAN 4-INCHES THICK.
 - PROVIDE ADDITIONAL COATINGS AS MANDATED BY HOWARD COUNTY, MD.
 - SET THE TANKS ON A 6-INCH MINIMUM LEVELING BED OF AASHTO #57 AGGREGATE ON A FIRM SUBGRADE.
 - THE ACCESS COVERS TO BE CHILD PROOF HEAVY DUTY COVERS WITH INTERNAL SAFETY NET OR CATCH AS MANUFACTURED BY SM TECH OR TUF-TITE. TANK AND RISERS TO BE WATERTIGHT AND PASS MANUFACTURERS WATER-TIGHTNESS TEST (VACUUM 2-INCHES HG FOR 60 MIN, 5 PSIG WATER FOR 60 MINUTES, 5 PSIG AIR FOR 15 MINUTES) OR MORE STRINGENT AS REQUIRED. THE LIDS ARE TO BE GAS TIGHT AND TO EXTEND NOT MORE THAN 4-INCHES ABOVE FINISHED GROUND.

GLW PLANNING | ENGINEERING | SURVEYING

3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20866 | GLWPA.COM
PHONE: 301-421-4024 | BALT: 410-880-1820 | DC&VA: 301-989-2524 | FAX: 301-421-4186

DESIGNED BY: mbt
DRAWN BY: klp
CHECKED BY: ckg

DATE: _____ REVISION: _____ BY: _____ APPR: _____

PREPARED FOR: CONTRACT PURCHASER/FUTURE OWNER: CLARENCE AND ELEAZABETH ALOTH 4904 VALLEY VIEW OVERLOOK ELLICOTT CITY, MD 21042

BUILDER: CLARENCE AND ELEAZABETH ALOTH 10548 GORMAN ROAD LAUREL, MD 20723 301-490-5517 STEVE APPLER steve@clairncustomhomes.com

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 128728 EXPIRATION DATE: MAY 26, 2024

8/31/22

ON-SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

FULTON HILL LOT 5 (8236 White Pine Court) PLAT No. 25976-25980

ELECTION DISTRICT No. 5

HOWARD COUNTY, MARYLAND

SCALE: 1" = 30'

DATE: AUG. 2022

TAX MAP - GRID: 46-3

SHEET: 1 OF 1

SDA TRENCH SIZE CALCULATIONS

FULTON HILL Lot 5 (8236 White Pine Court)

System Input Information

Application Rate: 1.2

Effective area beginning depth: 4

Effective area maximum bottom depth: 8

Number of Bedrooms: 6

Design flow at 150 gal./day/bedroom: 900

Absorption Trench Calculations

Drainfield area required: 750

Effluent pipe depth to invert: 2.5

Effective sidewall depth "D": 4

Trench Width "W" (2 or 3 feet): 3

Sidewall Reduction Percent: 41.67%

Linear feet of trench required: 104.17

Trench Layout Information

Approximate length available on contour & not exceeding 100-ft: 100

Number of trenches to use: 4

Min. length linear feet: 26.1

Total (linear feet): 104.4

Minimum Trench Sizing: 11

For trenches with sidewall credit the spacing is 6' for a wide trench and 9' for a 3' wide trench (assured edge to edge).

All trenches utilizing sidewall reduction credit must be spaced a min. of 10' for effective sidewall credit over 3.5'. If >3.5', then spacing formula is 2D+W up to a maximum of 18'.

HOUSE: BSE=423.50±

SEPTIC TANK TOP=419.5±

2,000 GALLON, 2 COMPARTMENT SEPTIC TANK FROM BABYLON VAULT CO.

4" PVC Ø 2.0% DISTRIBUTION BOX (D-BOX)

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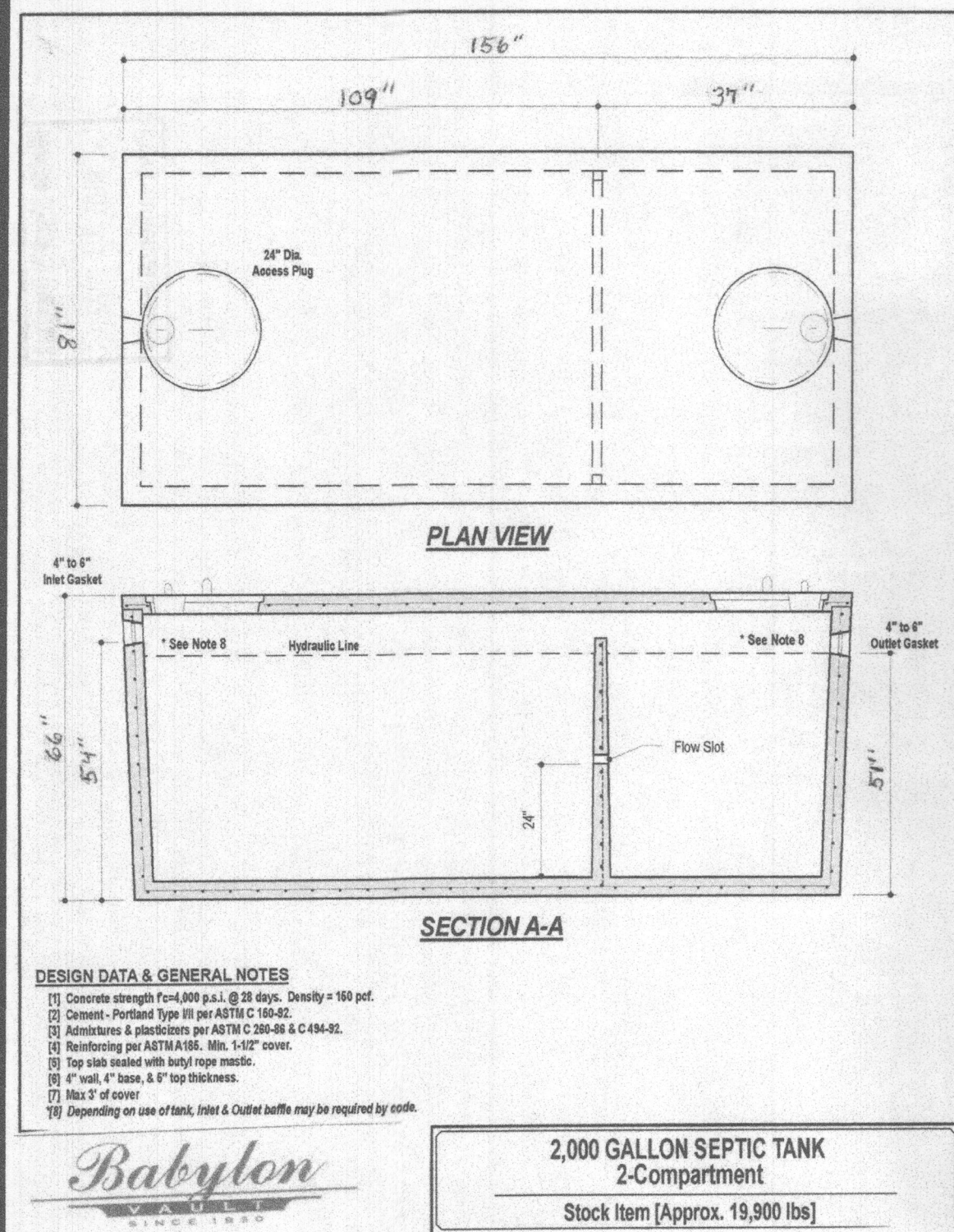
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SDA TRENCH SIZE CALCULATIONS			
FULTON HILL Lot 5 (8236 White Pine Court)			
System Input Information	Initial System	Replacem't System No.1	Replacem't System No.2
Application Rate	1.2	1.2	1.2
Effective area beginning depth	4	4	5
Effective area maximum bottom depth	8	8	8
Number of Bedrooms	6	6	6
Design flow at 150 gal./day/bedroom	900	900	900
Absorption Trench Calculations			
Drainfield area required (Design flow/application rate)	750	750	750
Effluent pipe depth to invert	2.5		
Effective sidewall depth "D" (Depth between the effective beginning depth or pipe depth (which ever is deeper) and maximum trench bottom.	4	4	3
Trench Width "W" (2 or 3 feet)	3	3	3
SideWall Reduction Percent = (W+2)/(W+1+2D)	41.67%	41.67%	50.00%
Linear feet of trench required = (drainfield area x sidewall reduction)/W	104.17	104.17	125
Trench Layout Information			
Approximate length available on contour & not exceeding 100-ft	100	100	100
Number of trenches to use	4	2	2
Min. length (linear feet)	26.1	52.1	62.5
Total (linear feet)	104.4	104.2	125
Minium Trench Spacing :	11	11	10
For trenches with no sidewall credit the spacing is 6' for a 2' wide trench and 9' for a 3' wide trench (measured edge to edge). All trenches utilizing sidewall reduction credit must be spaced a min. of 10' for effective sidewall not over 3:5'. If >3:5' then spacing formula is 2D+W up to a maximum of 18'.			

