



Howard County
Health Department

Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

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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: 1-19-22 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 570911

APPROVAL DATE: 03/15/2022 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 3355 Jennings Chapel

SUBDIVISION: Square Woods

LOT: 3

TAX ID: 1404601106

CONTRACTOR: South Carroll Brokhorst

EMAIL: schoekhorst@comcast.net

CONTRACTOR ADDRESS: 4410 Salem Bottom Rd, Westminster, MD 21157

PHONE: 410-596-3018

PROPERTY OWNER: Paul A. & Jennifer K. Casasco

EMAIL: _____

OWNER ADDRESS: 3365 Jennings Chapel Rd.

PHONE: 301-529-5728

SEPTIC TANK SIZE (GALLONS): 1500

TANK MANUFACTURER: BABYLON

PUMP MODEL: n/a

PUMP SIZE: n/a

PUMP TANK CAPACITY: n/a

DISTRIBUTION SYSTEM: GRAVITY

PRESSURE DOSED

BEDROOMS: 4

APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>105</u>	INLET DEPTH: <u>4</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: Robert Freemon

ISSUE DATE: 3-2-22

EXPIRATION DATE: 1-19-23

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

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
<u>3'</u>	<u>4'</u>	<u>8'</u>
NUMBER OF TRENCHES		<u>2</u>
TOTAL LENGTH		<u>106 F</u>
ABSORPTION AREA		<u>318 SF + 4" SIDE WALL</u>
DISTRIBUTION BOX LEVEL		<u>SPEED</u>
DISTRIBUTION BOX BAFFLE		<u>GNC</u>
DISTRIBUTION BOX PORT		<u>YES</u>

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	<u>YES</u>
MANUFACTURER	<u>BABYLON</u>
CAPACITY	<u>1500</u> GAL
SEAM LOC	<u>TOP</u>
TANK LID DEPTH	<u>2'</u>
BAFFLES	<u>YES</u>
BAFFLE FILTER	<u>-</u>
MANHOLE LOC	<u>FRONT/BACK</u>
6" PORT LOC	<u>-</u>
WATERTIGHT TEST	<u>-</u>
SLOTTED	<u>YES</u>
DATE ON LID	<u>01/21/2022</u>

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:

03/14/2022 LAID OUT 2x53' TR ON CONTOUR. CHECKED FALL, KEEP TANK AS SHALLOW AS POSSIBLE TO MAKE FALL TO 1ST REP AREA. CONSIDERED 2x TRS AT TOP OF SDA, TANK PLACEMENT IS UNFAVORABLE TO THAT CONFIG. PROCEED AS PLANNED. (P)

INSTALLATION:

03/14/2022 TANK SET; SHE INSTALLED. (P) 03/15/2022 INSTALLED 2x 53' TRS. D BOX LEVELLED W/ SPEED LEVELERS. (P)

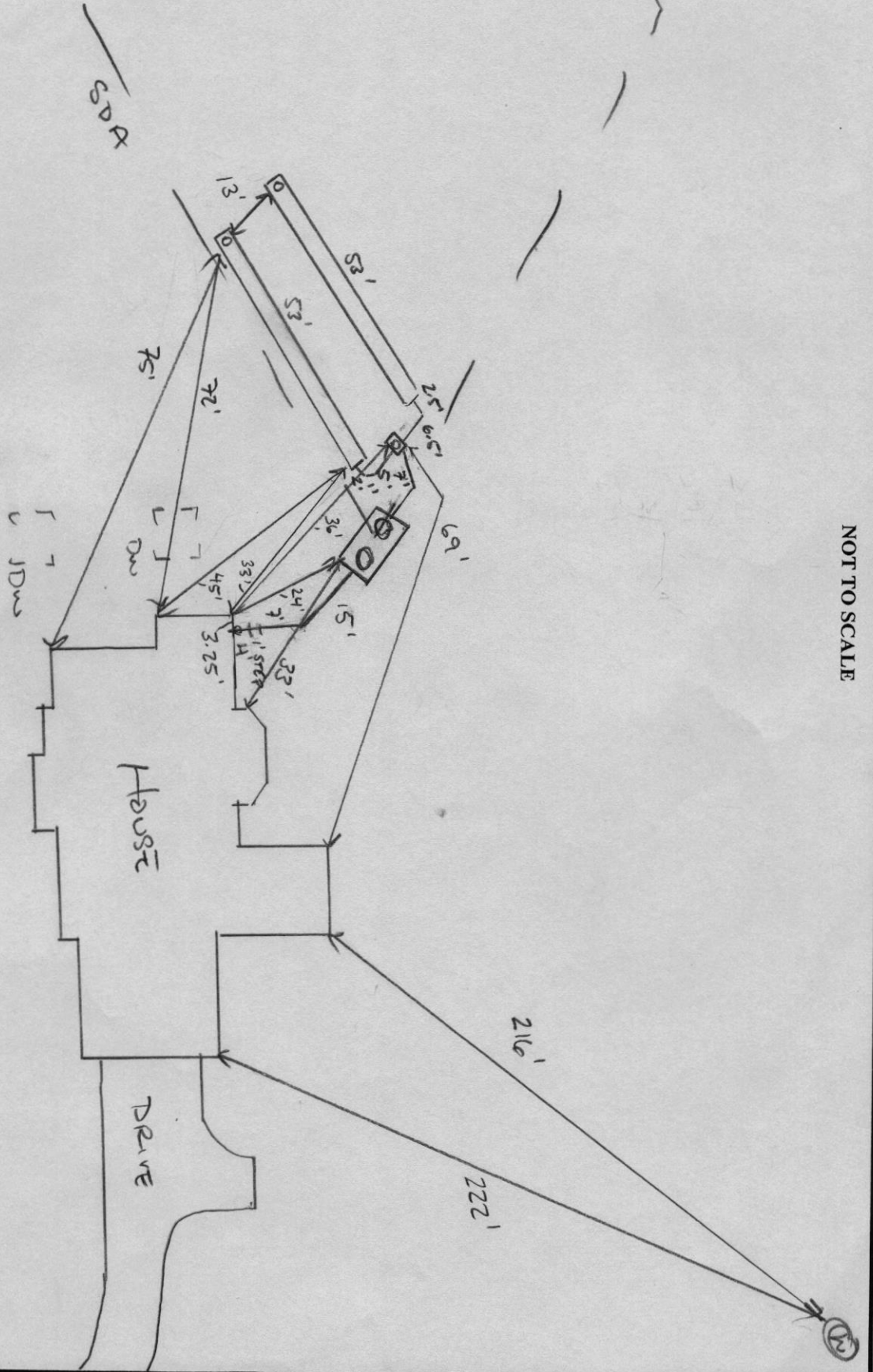
FINAL INSPECTOR

[Handwritten Signature]

DATE OF APPROVAL

03/15/2022

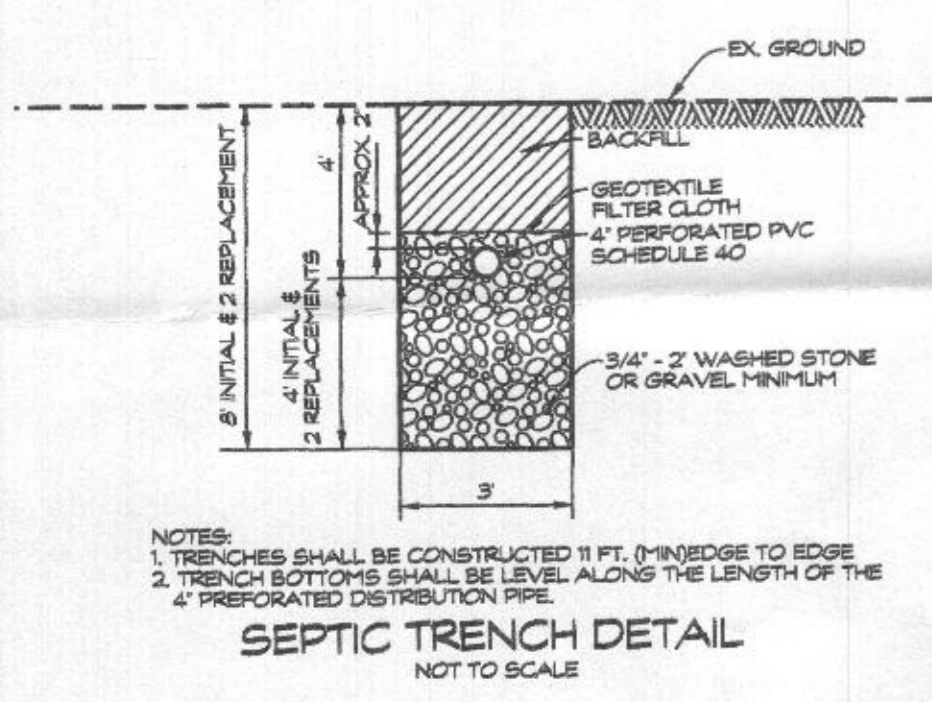
3355 JENNINGS CHAPEL ROAD



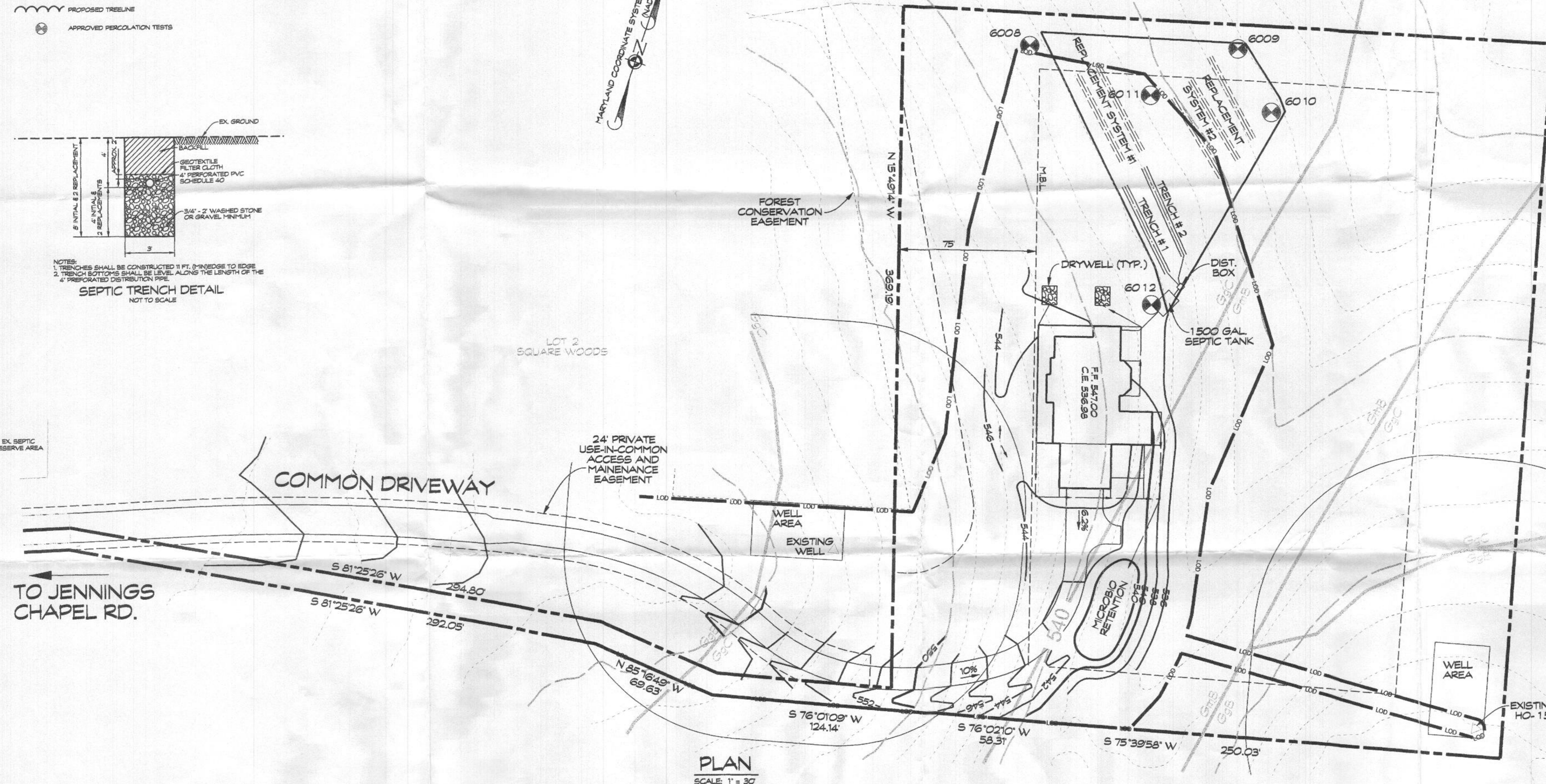
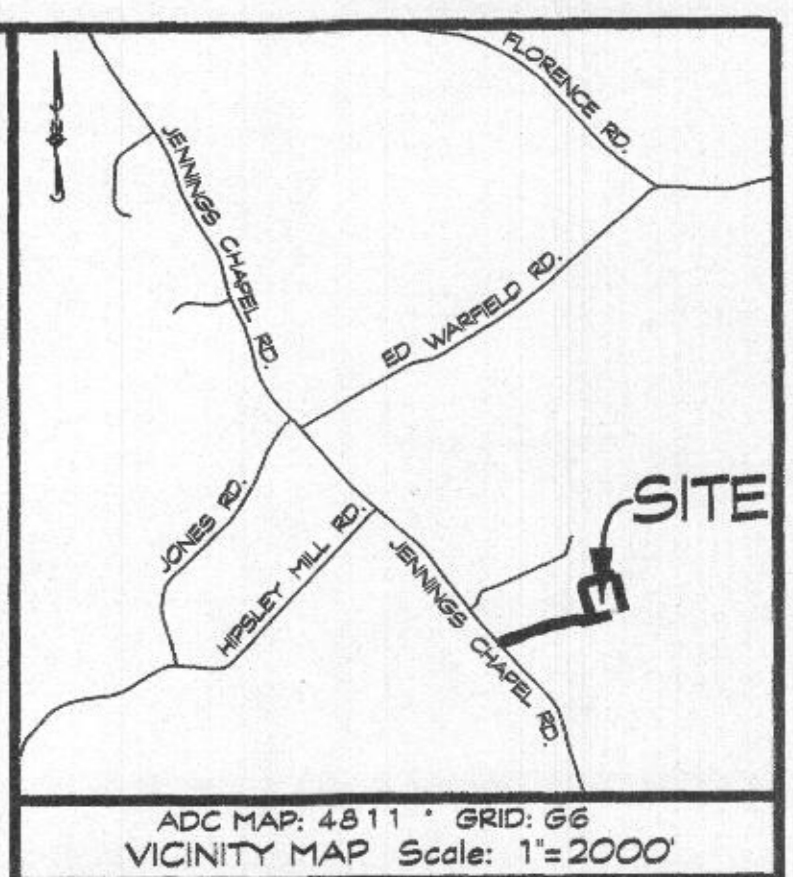
NOT TO SCALE

40-15-0323

- LEGEND**
- EXISTING WELL LOCATION
 - GrB SOL LINES
 - McD DENOTES FLOW DIRECTION
 - LOD DENOTES LIMIT OF DISTURBANCE
 - EXISTING TREELINE
 - PROPOSED TREELINE
 - APPROVED PERCOLATION TESTS



- NOTES:**
- TRENCHES SHALL BE CONSTRUCTED 1 FT. MIN. EDGE TO EDGE
 - TRENCH BOTTOMS SHALL BE LEVEL ALONG THE LENGTH OF THE
 - PERFORATED DISTRIBUTION PIPE



- GENERAL NOTES**
- THE STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY 4 DRYWELLS.
 - THERE ARE NO STREAMS, PONDS, FLOODPLAINS OR WETLANDS ON THIS SITE.
 - THERE ARE NO SLOPES GREATER THAN 20% ON THIS LOT.
 - THE EXISTING WELL HAS BEEN FIELD LOCATED.
- PLAN NOTES**
- ANY CHANGE 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 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
 - THE WELL (TAG # HC-17-0288) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
 - IF A BUILDING PERMIT IS SUBMITTED ANY TIME IN THE FUTURE, A SEPTIC SYSTEM UPGRADE WILL BE REQUIRED TO FINISH THE AREA CURRENTLY IDENTIFIED AS THE BASEMENT. AT THAT TIME A SEPTIC SYSTEM UPGRADE WILL BE REQUIRED AS FINISHING THE BASEMENT COULD POSSIBLY CREATE A FIFTH BEDROOM PER HOWARD COUNTY CODE 3.80.1(B).
 - TANK MEASUREMENTS AND ELEVATIONS ARE BASED ON SEPTIC TANKS AS MANUFACTURED BY HAYES BROS., ELKSDORF, MD 410-795-1434.
 - ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND 200 FEET DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
 - THE PERC TEST LOCATIONS, WELL AREA AND SEPTIC EASEMENT AREA WERE TAKEN FROM THE APPROVED PERCOLATION TEST CERTIFICATION DATED 12/22/2017, TITLED "PERCOLATION CERTIFICATION PLAN SQUARE WOODS" PREPARED BY FISHER, COLLINS & CARTER, INC.
 - ELECTRICAL WORK FOR INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.

SEPTIC SYSTEM TRENCH DESIGN:

PROPOSED NUMBER OF BEDROOMS = 4
DESIGN FLOW = 80 GALS x 4 BEDROOM = 600 GAL/DAY

INITIAL SEPTIC SYSTEM
APPLICATION RATE = 0.8
EFFECTIVE DEPTH = 4'
600 GAL/DAY / 0.8 GAL / DAY/SQ. FT. = 750 SQ. FT.
750 SQ. FT. / 3 FT. = 250 LF. OF TRENCH
250 LF. x 0.42 = 105 LF. USE 2 - 53 LF. OF TRENCH

REPLACEMENT SYSTEM #1
APPLICATION RATE = 0.8
EFFECTIVE DEPTH = 4'
600 GAL/DAY / 0.8 GAL / DAY/SQ. FT. = 750 SQ. FT.
750 SQ. FT. / 3 FT. = 250 LF. OF TRENCH
250 LF. x 0.42 = 105 LF. USE 2 - 53 LF. OF TRENCH

REPLACEMENT SYSTEM #2
APPLICATION RATE = 0.6
EFFECTIVE DEPTH = 4'
600 GAL/DAY / 0.6 GAL / DAY/SQ. FT. = 1000 SQ. FT.
1000 SQ. FT. / 3 FT. = 333.33 - 334 LF. OF TRENCH
334 LF. x 0.42 = 140.28 = 141 LF. USE 3 - 50 LF. OF TRENCH

Approved Septic System Plan
Howard County Health Department
Dana Lunde
Date

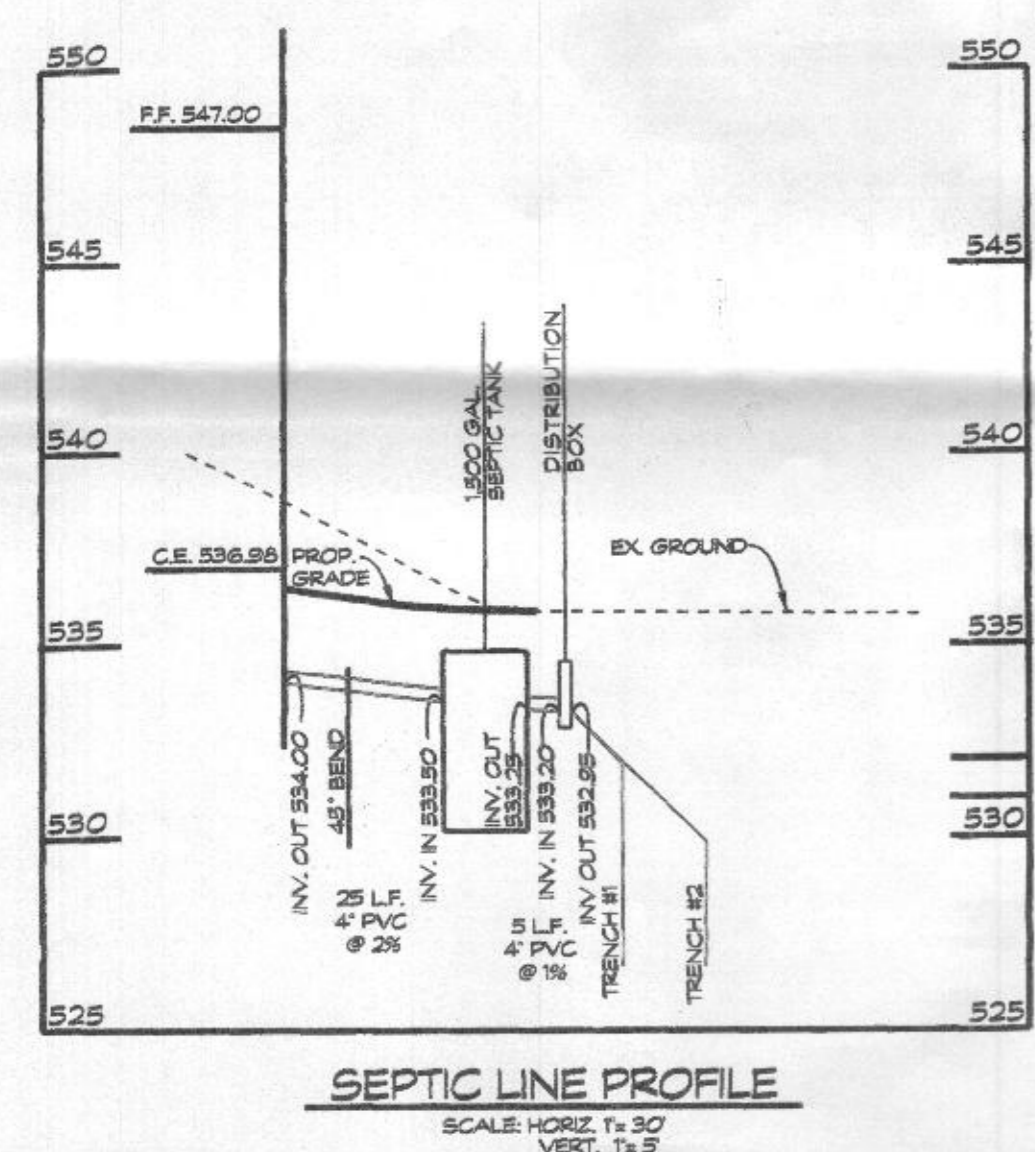
OWNER/DEVELOPER
PAUL A. & JENNIFER K. CASASCO
3365 JENNINGS CHAPEL ROAD
WOODBINE, MD 21797
(301) 529-5728

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
SQUARE WOODS - LOT 3
3365 JENNINGS CHAPEL ROAD
4th ELECTION DISTRICT - HOWARD COUNTY, MD
TAX MAP: 20 - BLOCK: 4 - PARCEL: 140
RECORDED AS PLAT # 24719 & 24720



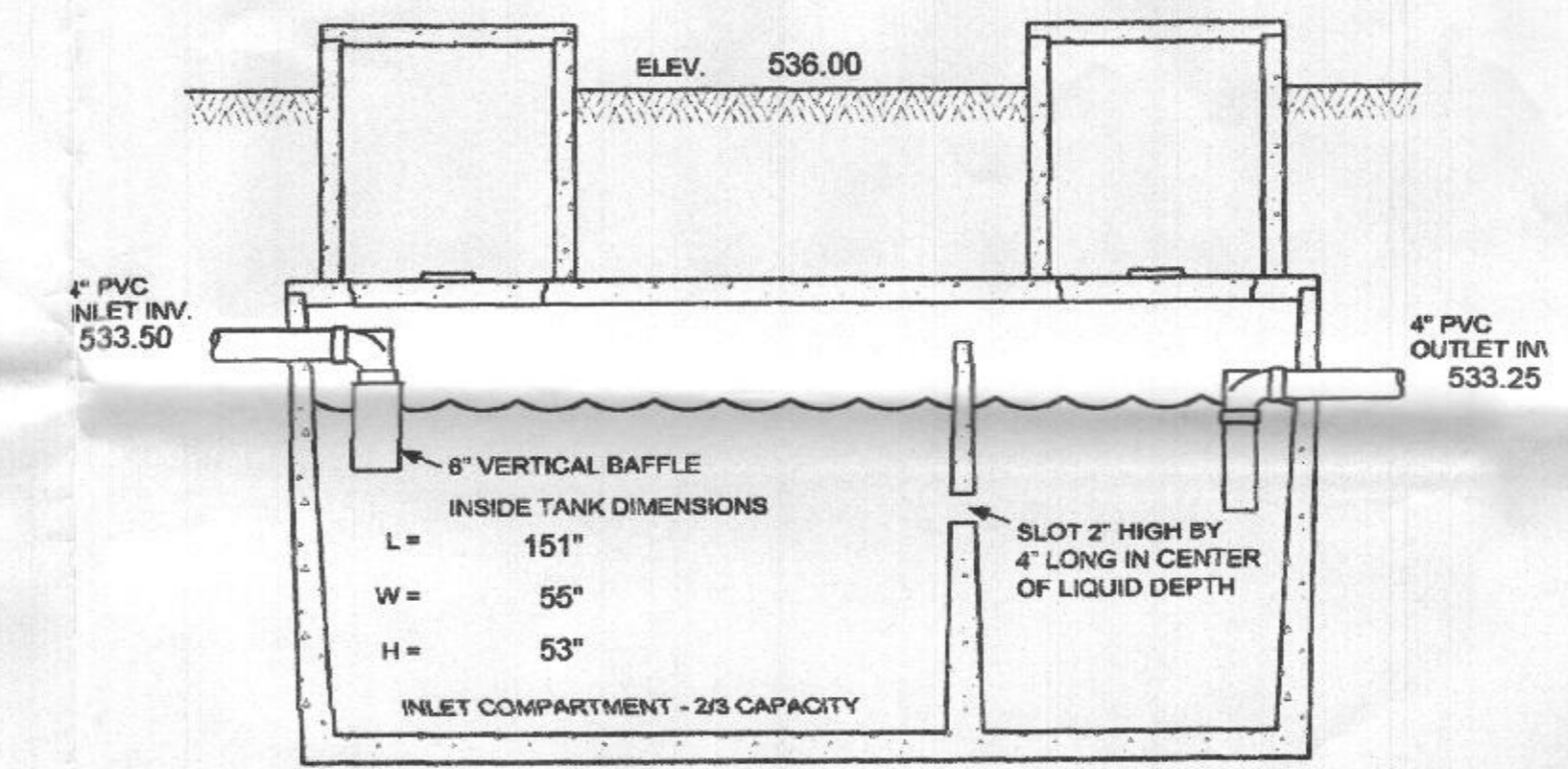
Dana Lunde
5/14/21
Linda D. Altman
Qualified Professional

Date	Revisions	Drawn By	BM
		Designed By:	
		Reviewed By: LDA	
		Date: MAY, 2021	
		Scale: AS SHOWN	
		Job No: 202102	
		Sheet: 1 OF 2	



TRENCH CHART

TRENCH	EXISTING GROUND	INVERT ELEV.	BOTTOM TRENCH
1	536.00	532.00	528.00
2	534.00	530.00	526.00



NOTE:
THE SEPTIC TANK RISES TO TERMINATE AT LEAST 6\"/>

