

**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](http://www.hchealth.org)  
 Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)

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

RECEIPT DATE: 11/12/19 **ONSITE SEWAGE DISPOSAL SYSTEM** P 566457  
 APPROVAL DATE: 01/03/2020 **PERMIT: CONSTRUCTION** A \_\_\_\_\_  
 PROPERTY ADDRESS: 3347Jenning Chapel Road  
 SUBDIVISION: Square Woods LOT: 1 TAX ID: \_\_\_\_\_  
 CONTRACTOR: South Carroll Backhoe EMAIL: scbackhoe@comcast.com  
 CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157 PHONE: 410-596-3618  
 PROPERTY OWNER: Paul and Jennifer Casasco EMAIL: \_\_\_\_\_  
 OWNER ADDRESS: 3365 Jennings Chapel Road, Woodbine, MD 21797 PHONE: 301-529-5728

SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: Babylon  
 PUMP MODEL: 3885-WE-O5H PUMP SIZE 1 3/4 PUMP TANK CAPACITY: 1500

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>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4</u>
LOCATION:	<b>PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.</b>	
NOTES:		

ISSUED BY: Robert Freemon ISSUE DATE: 11/21/19 EXPIRATION DATE: 11/12/20

- 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 19005949
- 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'	4'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		106'
ABSORPTION AREA		318 sq ft + sidewalk
DISTRIBUTION BOX LEVEL		N/A
DISTRIBUTION BOX BAFFLE		none
DISTRIBUTION BOX PORT		-

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL yes  
 MANUFACTURER Babylon  
 CAPACITY 1500 GAL  
 SEAM LOC Top  
 TANK LID DEPTH 2ft  
 BAFFLES front + back  
 BAFFLE FILTER -  
 MANHOLE LOC front + back  
 6" PORT LOC -  
 WATERTIGHT TEST -  
 SLOTTED yes  
 DATE ON LID 10-18-19

PUMP/SEPTIC TANK LEVEL yes  
 MANUFACTURER Babylon  
 CAPACITY 1500 GAL  
 SEAM LOC top  
 TANK LID DEPTH 2'  
 BAFFLES -  
 BAFFLE FILTER -  
 MANHOLE LOC back  
 6" PORT LOC -  
 WATERTIGHT TEST -  
 SLOTTED no  
 DATE ON LID 10-21-19

PRE-CONSTRUCTION:

11/25/2019 LAID OUT 2x 53' TRENCHES. SDA STAKED.

INSTALLATION:

11/22/2019. OK TO SET TANK. CALL IF PROBLEM. (D) 11/25/2019  
 SEWER LINE AND TANK PIT DUG. REINSPTANK + SHC (H) 11/26/19  
 SHC and tanks set. First trench completed. (ST) 11/27/19 Second trench complete  
 D-box set and connected to force main. (ST) 04/03/2020 PFA OK  
 BOX ON OUTSIDE HOUSE. D Box OBS RECEIVING EFFLUENT. (T)

FINAL INSPECTOR

DATE OF APPROVAL

04/03/2020

3347 JENNINGS CHAPLE

NOT TO SCALE





439 East Main Street, Westminster, MD 21157-5539  
 v. (410) 848-1790 ~ f. (410) 848-1791

**Transmit To:**  
 South Carroll Backhoe, Inc.  
 4410 Salem Bottom Road  
 Westminster, MD 21157

**Project Info:**  
 SQUARE WOODS LOTS 1-3  
 Jennings Chapel Road  
 Howard Co

**Project No:** 2019102      **Date:** Nov 12, 2019

**We are Transmitting:**

<input checked="" type="checkbox"/> Here with	<input checked="" type="checkbox"/> Originals	<input type="checkbox"/> Computer Media	<input type="checkbox"/> Shop Drawings	<input checked="" type="checkbox"/> Via Pick-Up	<input type="checkbox"/>
<input type="checkbox"/> Our	<input type="checkbox"/> Prints	<input type="checkbox"/> Project Manuals	<input type="checkbox"/> Payment Cert.	<input type="checkbox"/> Express Mail	<input type="checkbox"/>
<input type="checkbox"/> Your	<input type="checkbox"/> Copies	<input type="checkbox"/> Product Literature	<input type="checkbox"/> Change Order	<input type="checkbox"/> 1st Class Mail	<input type="checkbox"/>

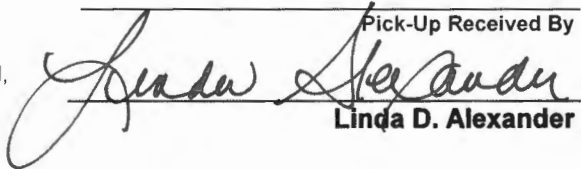
Sets	Type	Dwg No	Dated	Description
1	Document	2019102	11/12/19	Foundation Certification

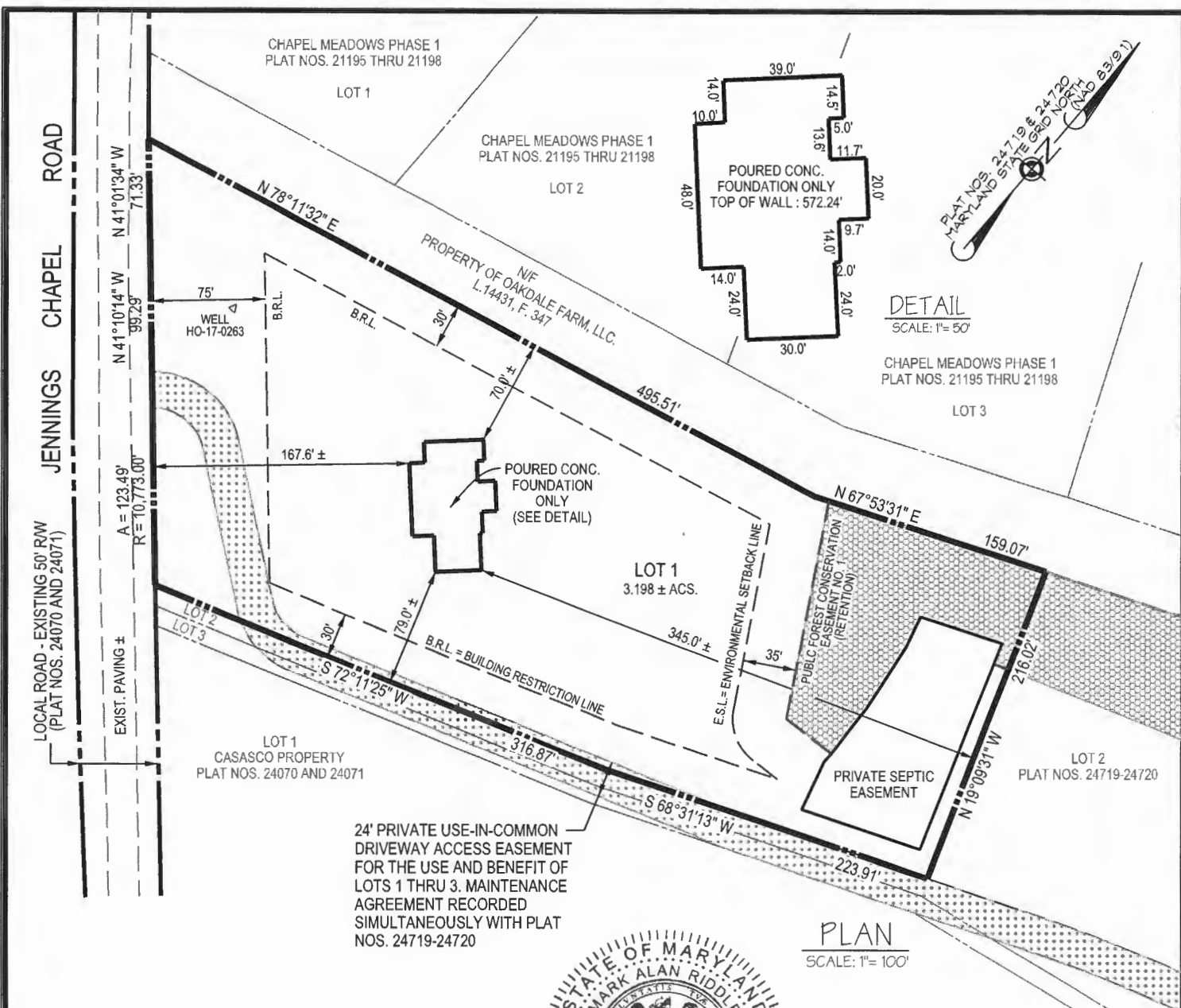
<input type="checkbox"/> As Requested	<input type="checkbox"/> For Your Use	<input type="checkbox"/> For Filing	<input type="checkbox"/> For Approval	<input type="checkbox"/>
<input type="checkbox"/> As Required	<input type="checkbox"/> For Your Review	<input type="checkbox"/> For Bidding	<input type="checkbox"/> As Discussed	<input type="checkbox"/>

**Remarks:**

**Copy To** \_\_\_\_\_

If enclosures are not as noted, please notify us immediately.

Pick-Up Received By  
  
**Linda D. Alexander**



ELEVATION SHOWN HEREON WAS DERIVED FROM FIELD LOCATIONS USING HOWARD COUNTY CONTROL CARDS 20CA AND 20B2 USING NAVD 88 DATUM.

I hereby certify that I have surveyed the property shown hereon for the sole purpose of locating the improvements. This plan is a benefit to the customer only insofar as it is required by a lender or a title insurance company or its agent in connection with contemplated transfer, financing or refinancing. It is not to be relied upon for the establishment of boundary, easement or right-of-way lines for any reason, such as the location of fences, garages, buildings, or other existing or future improvements. Offsets of buildings to property lines are to the nearest foot (1) unless otherwise noted.

By: *Mark A Riddle* Date: *11/12/19*  
 Mark A Riddle Professional Land Surveyor No. 10899  
 License renews May 19, 2020

A licensed Maryland Surveyor either personally prepared this Foundation Certification, or was in responsible charge over its preparation and the surveying work reflected in it, in compliance with the Maryland Minimum Standards of Practice for Land Surveyors. (COMAR 09-13-06.06 AND .12)

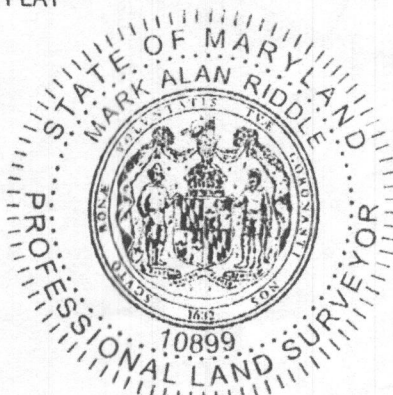
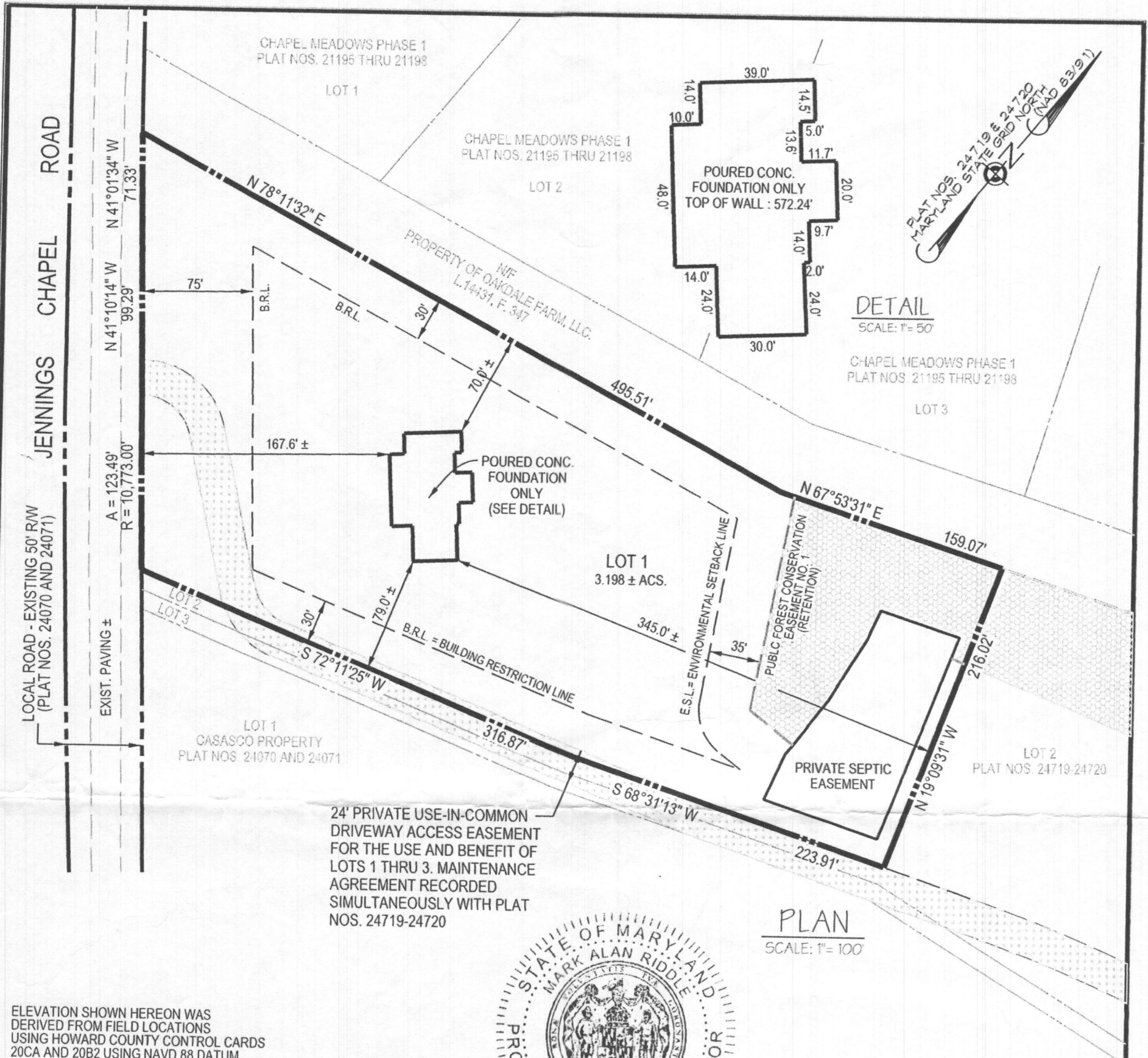


**FOUNDATION CERTIFICATION- LOT 1**  
**"SQUARE WOODS"**  
**NO. 3347 JENNINGS CHAPEL ROAD**  
 WOODBINE, MARYLAND 21797  
 TAX MAP: 20 \* BLOCK: 4 \* PARCEL: 140  
 4TH ELECTION DISTRICT \* HOWARD COUNTY, MARYLAND



439 East Main Street Westminster, MD 21157-5539  
 (410) 848-1790 FAX (410) 848-1791

DRAWN BY:	JLW
DESIGN BY:	
REVIEW BY:	MAR
DATE:	09-25-19
SCALE:	AS SHOWN
JOB NO:	2019102
SHEET:	1 OF 1



**FOUNDATION CERTIFICATION- LOT 1  
"SQUARE WOODS"  
NO. 3347 JENNINGS CHAPEL ROAD**

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TAX MAP: 20 \* BLOCK: 4 \* PARCEL: 140  
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By: *Mark A Riddle* Date: **9/27/19**  
Mark A Riddle Professional Land Surveyor No. 10899  
License renews May 19, 2020

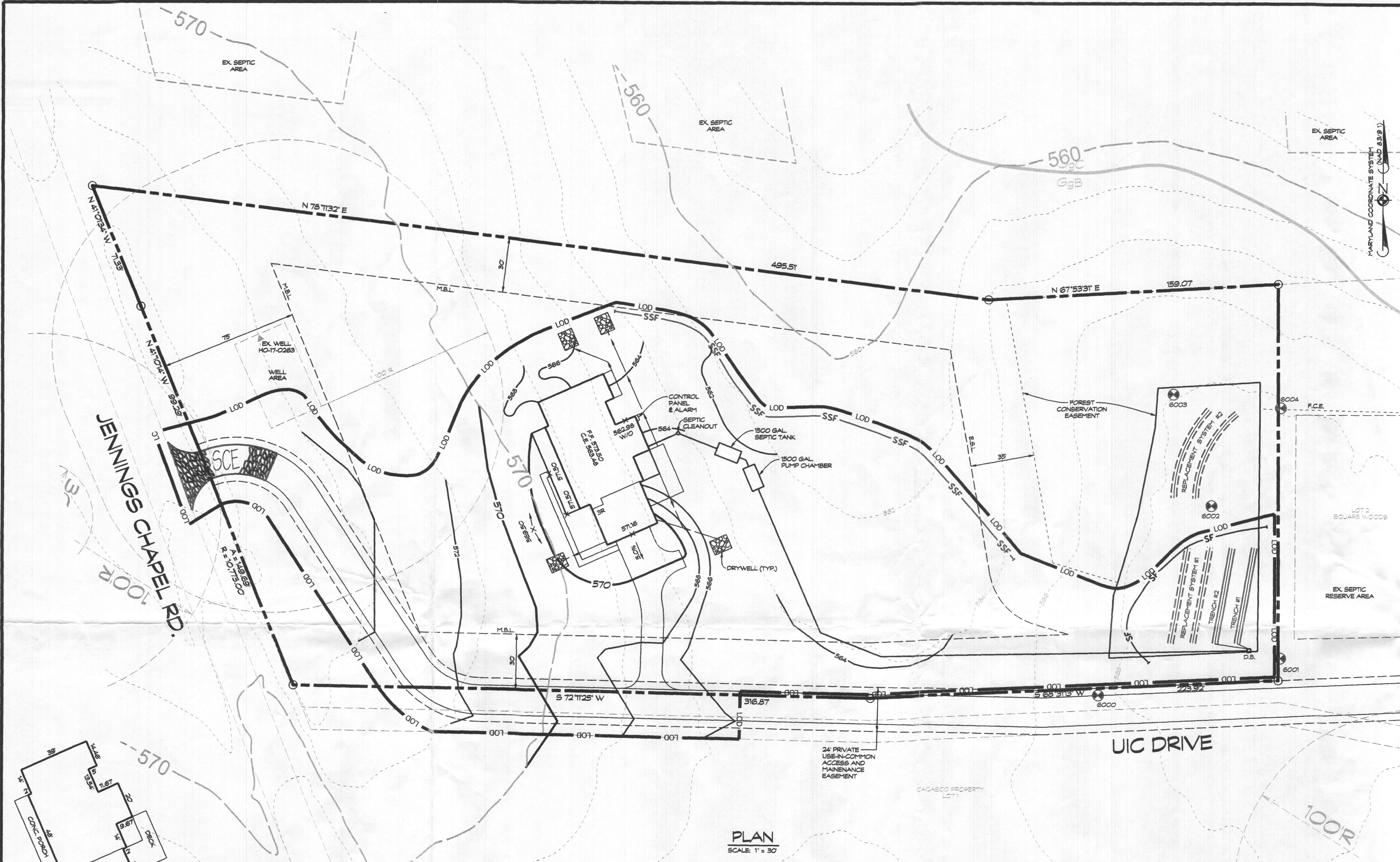
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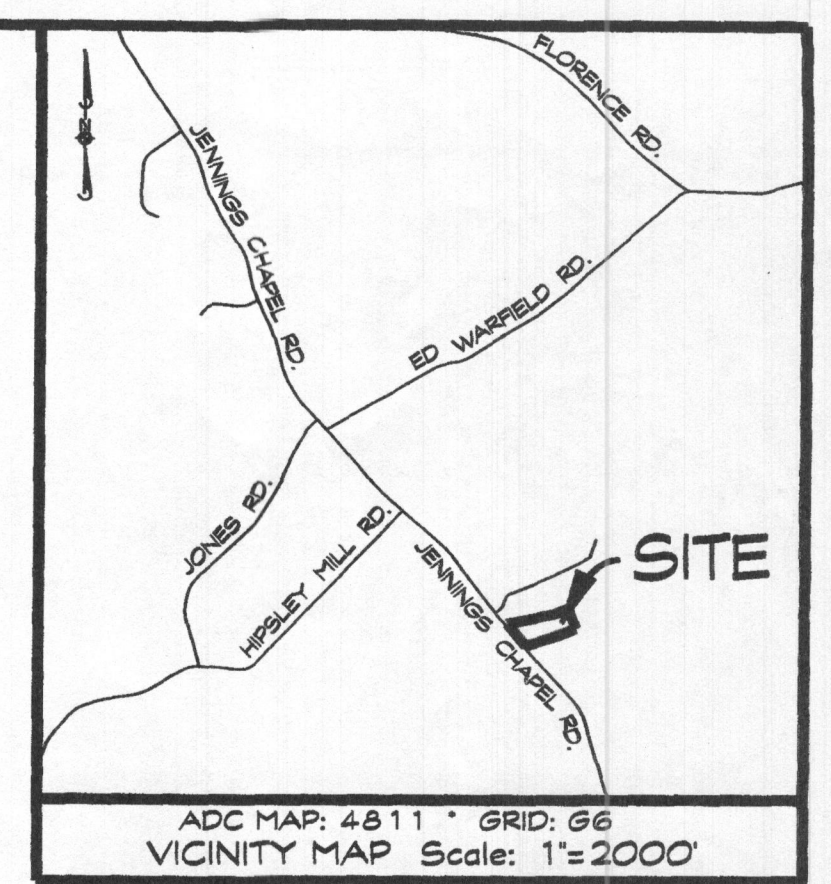
439 East Main Street Westminster, MD 21157-5539  
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DRAWN BY:	JLW
DESIGN BY:	
REVIEW BY:	MAR
DATE:	09-25-19
SCALE:	AS SHOWN
JOB NO:	2019102
SHEET:	1 OF 1

CAD Drawing File Name: s:\97230\dwg\constr\seplans1



- LEGEND**
- ▲ EXISTING WELL LOCATION
  - GgB SOL LINES
  - M/D DENOTES FLOW DIRECTION
  - SF DENOTES SILT FENCE
  - SSF DENOTES SUPER SILT FENCE
  - LOD DENOTES LIMIT OF DISTURBANCE
  - S.C.E. STABILIZED CONSTRUCTION ENTRANCE
  - EXISTING TREELINE
  - PROPOSED TREELINE
  - ⊙ APPROVED PERCOLATION TESTS



**GENERAL NOTES**

1. THE STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY 4 DRYWELLS.
2. THERE ARE NO STREAMS, PONDS, FLOODPLAINS OR WETLANDS ON THIS SITE.
3. THERE ARE NO SLOPES GREATER THAN 20% ON THIS LOT.
4. THE EXISTING WELL HAS BEEN FIELD LOCATED.

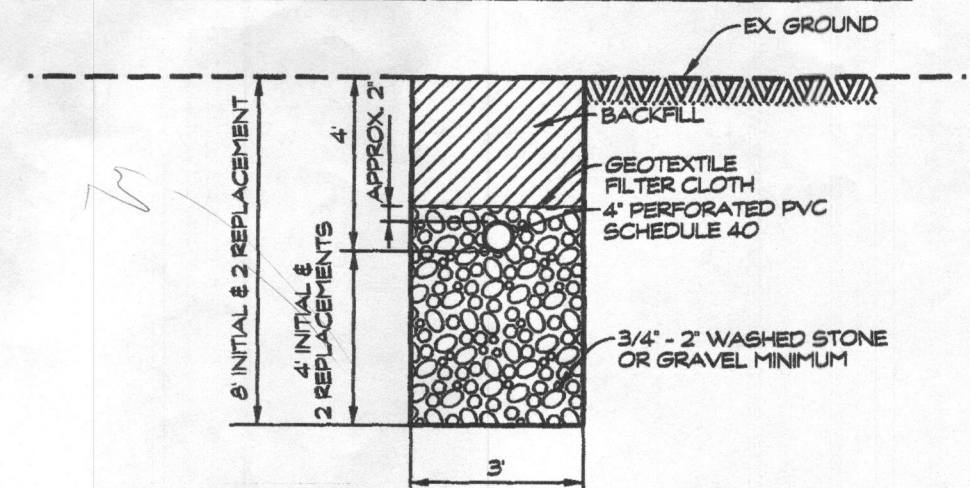
**PLAN NOTES**

1. 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.
2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK ACCURATELY SHOWN.
3. THE WELL (TAG # HO-17-0263) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
4. 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 5TH BEDROOM PER HOWARD COUNTY CODE 3.801(b).
5. TANK MEASUREMENTS AND ELEVATIONS ARE BASED ON SEPTIC TANKS AS MANUFACTURED BY HAYES BROS., ELKIDGE, MD 410-785-1434.
6. 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.
7. THE PERC TEST LOCATIONS, WELL AREA AND SEPTIC EASEMENT AREA WERE TAKEN FROM THE APPROVED PERCOLATION TEST CERTIFICATION DATED 12/20/2017, TITLED "PERCOLATION CERTIFICATION PLAN SQUARE WOODS" PREPARED BY FISHER, COLLINS & CARTER, INC.
8. ELECTRICAL WORK FOR INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.

**SEPTIC SYSTEM TRENCH DESIGN:**

PROPOSED NUMBER OF BEDROOMS = 4  
APPLICATION RATE = 0.8  
DESIGN FLOW = 80 GALS x 4 BEDROOM = 600 GAL/DAY  
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 FOR INITIAL SYSTEM  
USE 2 - 53 LF. OF TRENCH FOR EACH REPLACEMENT SYSTEM

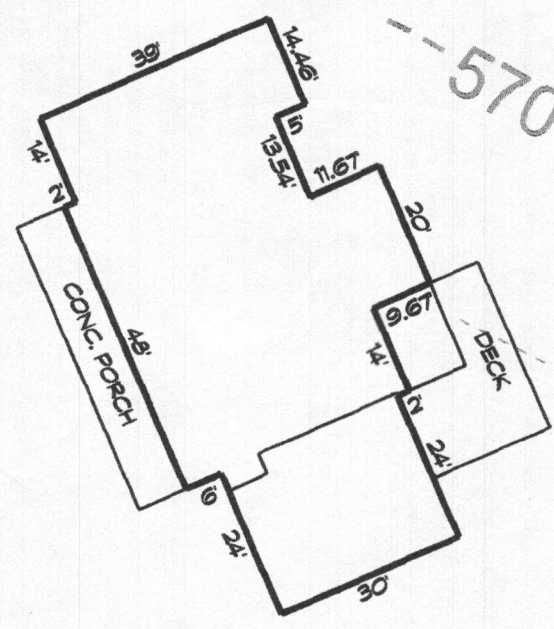
TRENCH CHART			
TRENCH	EXISTING GROUND	INVERT ELEV.	BOTTOM TRENCH
1	568.3	564.3	560.3
2	568.3	564.3	560.3



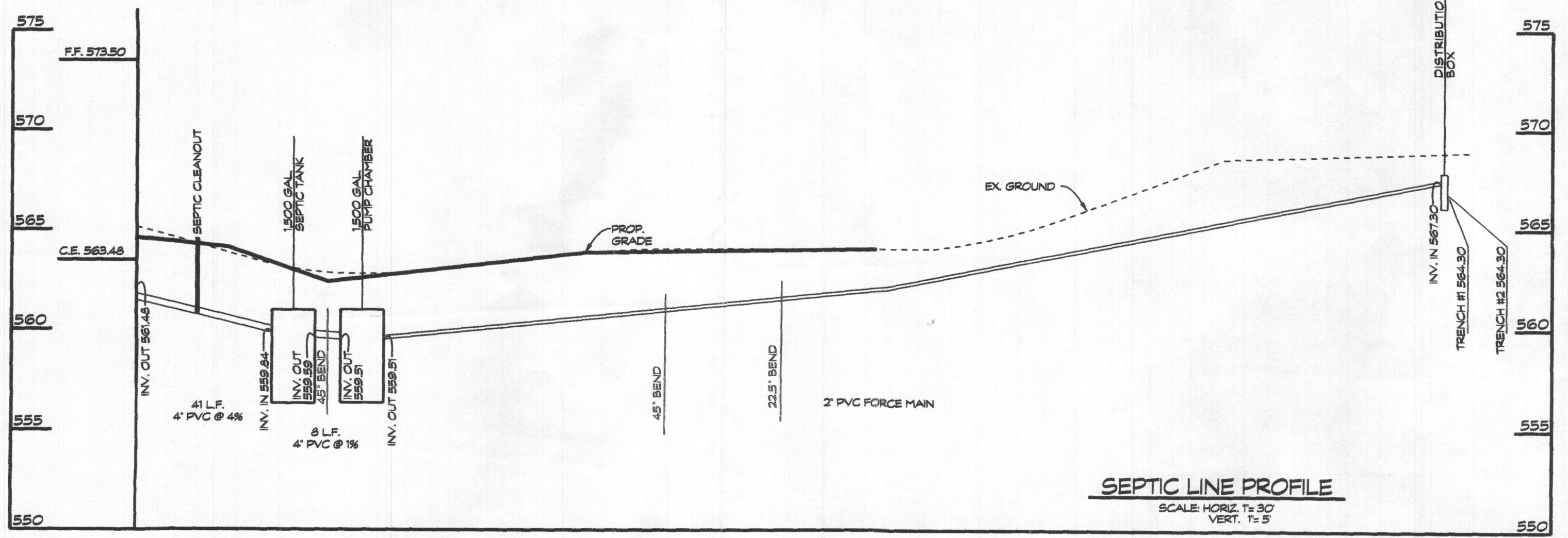
- NOTES:**
1. TRENCHES SHALL BE CONSTRUCTED 11 FT. MIN TO EDGE
  2. TRENCH BOTTOMS SHALL BE LEVEL ALONG THE LENGTH OF THE 4\"/>

Approved Septic System Plan  
Howard County Health Department  
Signature: *Paul A. Casasco* Date: 8/22/2019  
(Approval for 4 BRs)

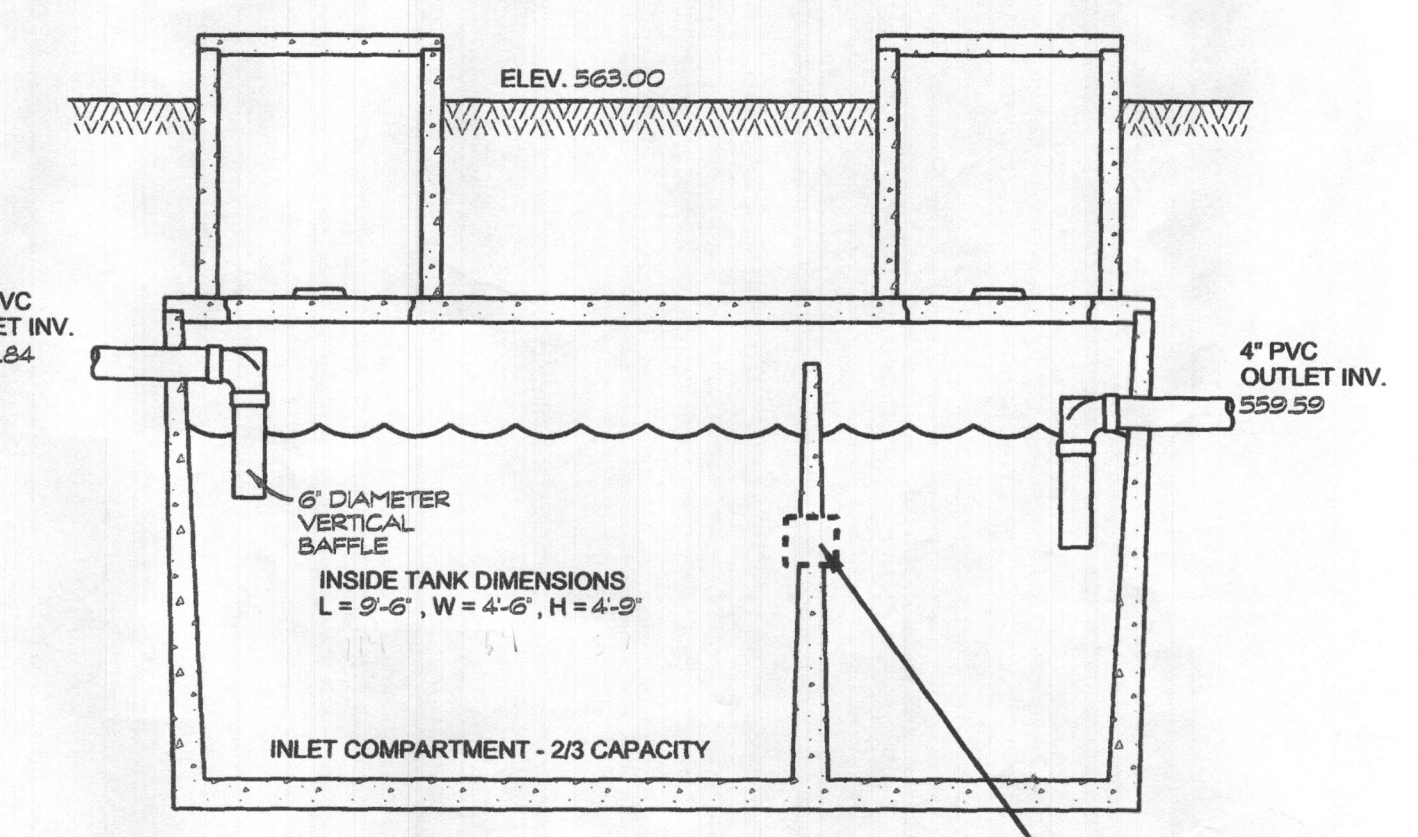
**OWNER/DEVELOPER**  
PAUL A. & JENNIFER K. CASASCO  
3365 JENNINGS CHAPEL ROAD  
WOODBINE, MD 21797  
(301) 529-5728



PLAN  
SCALE: 1"=30'



NOTE:  
THE SEPTIC TANK RISERS TO TERMINATE AT LEAST 6" ABOVE FINAL GRADE.



NOTE:  
SLOT IS 2" HIGH BY 4" LONG IN CENTER OF LIQUID DEPTH

**ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN**  
**SQUARE WOODS - LOT 1**

3347 JENNINGS CHAPEL ROAD  
4th ELECTION DISTRICT • HOWARD COUNTY, MD  
TAX MAP: 20 \* BLOCK: 4 \* PARCEL: 140  
RECORDED AS PLAT # 24719 & 24720

**CLSI**  
Civil Engineering & Environmental Consultants  
www.clsi-civileng.com  
439 East Main Street Westminster, MD 21157-5539  
(410) 848-1790 FAX (410) 848-1791

Date	Revisions	Drawn By: BM
08/07/19	REV'D PER HEALTH DEPT COM'GS	Designed By:
		Reviewed By: LDA
		Date: JUNE, 2019
		Scale: AS SHOWN
		Job No: 201902
		Sheet: 1 OF 2

