

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: 10/12/17 **ONSITE SEWAGE DISPOSAL SYSTEM** P 561548

APPROVAL DATE: 10/18/17 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 13951 Hallowell Court

SUBDIVISION: _____ LOT: 6 TAX ID: _____

CONTRACTOR: Hatfield's Equipment EMAIL: ken@hatfieldsequipment.com

CONTRACTOR ADDRESS: P.O. Box 519 Annapolis Junction, MD 20701 PHONE: 301-490-4289

PROPERTY OWNER: Christopher and Nureya Monroe EMAIL: _____

OWNER ADDRESS: 12219 Garrison Forest Road PHONE: _____

SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: _____

PUMP MODEL: _____ PUMP SIZE _____ PUMP TANK CAPACITY: _____

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>128 170</u>	INLET DEPTH: <u>3 3.5'</u>
	TRENCH WIDTH: <u>2</u>	MAXIMUM BOTTOM DEPTH: <u>7'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10 9</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:	Install 2 x 85' trenches on contour to best fit and conserve area for future SOA repl. - <u>Kmw</u>	

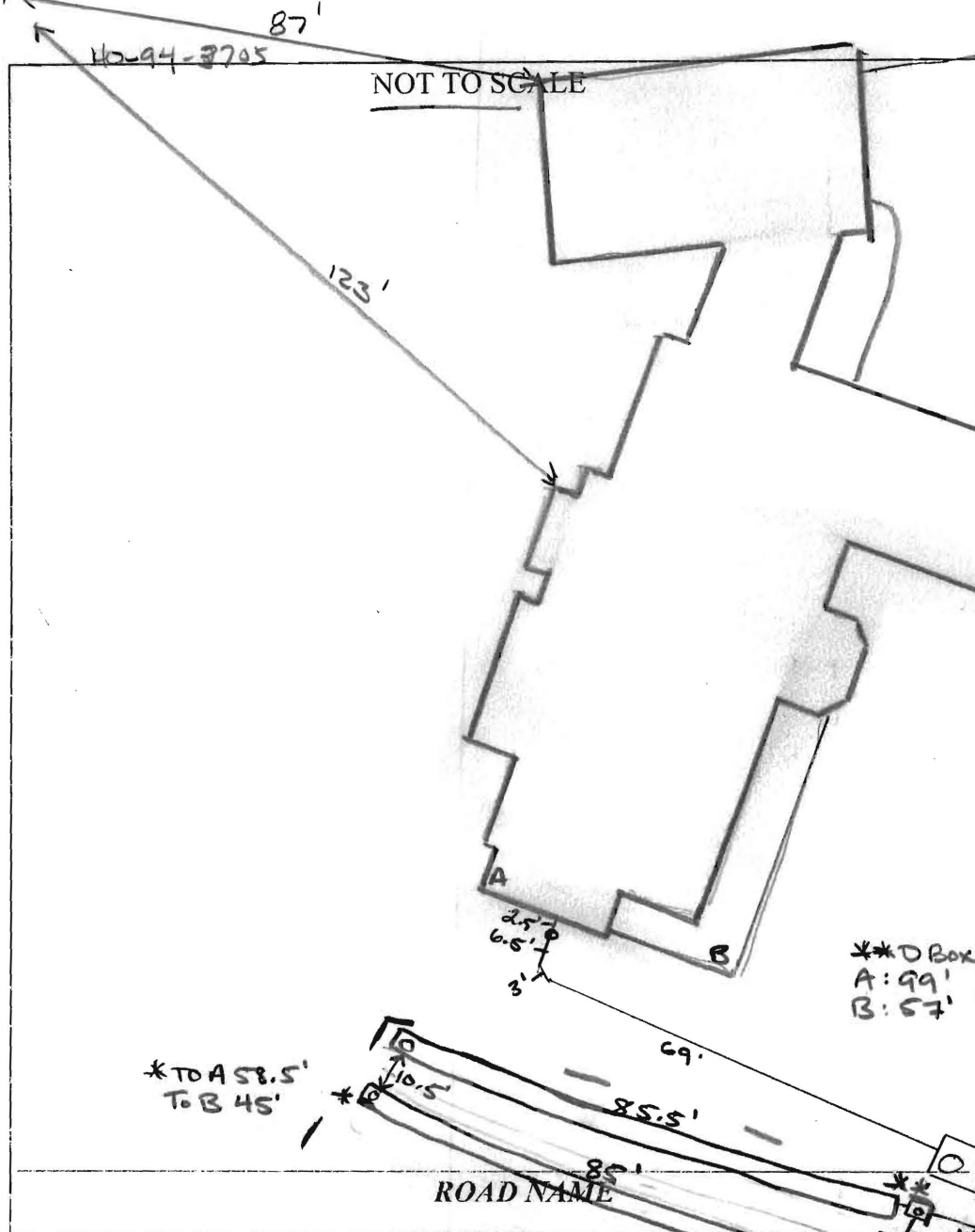
ISSUED BY: Hank Oswald ISSUE DATE: 10/12/17 EXPIRATION DATE: 10/12/18

- 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 DOWNGRAIENT 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.



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
2'	3.5'	7'
NUMBER OF TRENCHES		2
TOTAL LENGTH		170.5'
ABSORPTION AREA		341 sq ft + Side wall
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		yes

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL: <u>DN1</u>	
MANUFACTURER	_____
CAPACITY	1500 GAL
SEAM LOC	TOP
TANK LID DEPTH	1'-3'
BAFFLES	yes
BAFFLE FILTER	NO
MANHOLE LOC	FRONT/BACK
6" PORT LOC	Inlet
WATERTIGHT TEST	—
SLOTTED	yes
DATE ON LID	9-6-17
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:

10/16/17 Adjusted specs to better fit inside proposed SOT. moved tank slightly downhill from proposed location, to avoid fall shown on ODS plan call for inspection. 2 x 85' trenches
 INSTALLATION: running across top part of SOT w/ in 2"-4". (mm)

10/17/17 Installed Tank and lower trench. Ok to backfill (D)
 10/18/17 Completed upper trench, checked speed level of D Box. Ok to backfill. (D) SEWER LINE SPEC: 4" Silverline Coex Cellular Core PVC-Duv Pipe IPS SCH-40 Series [ASTM F-891-10 NSF-duv 10 Non Pressure SL-CM 10A

08/31/17 09:06 Made in USA *Solvent welded (de)

FINAL INSPECTOR

DATE OF APPROVAL 10/18/2017

Oswald, Hank

From: Oswald, Hank
Sent: Monday, March 06, 2017 11:52 AM
To: lalexander@clsimail.com
Subject: 13951 Hallowell Court_OSDS Plan Comments

Hi Linda:

I reviewed the OSDS plan for 13951 Hallowell Court with the following comments:

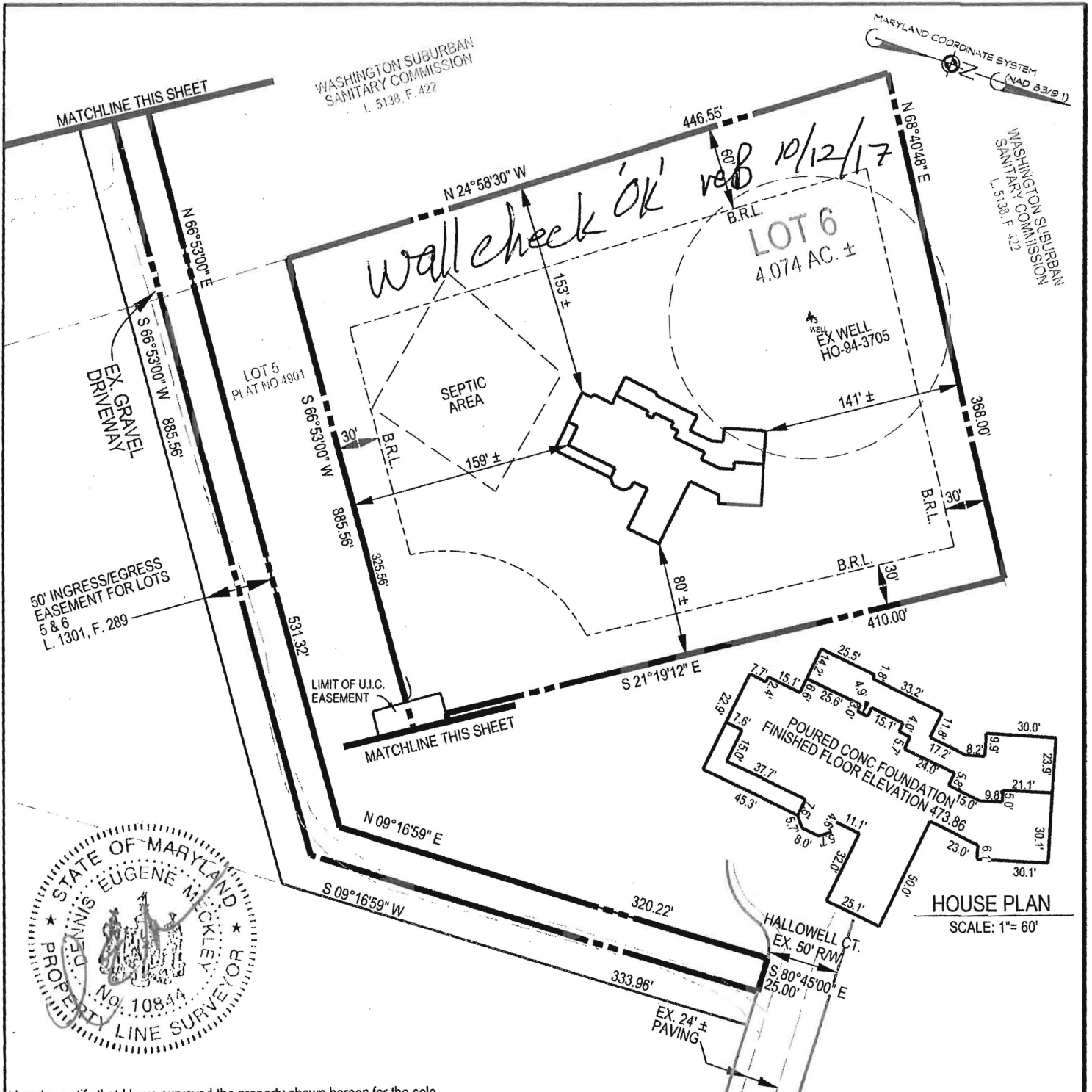
- 1.) Show 10 foot separation between all trenches on plan. Please note, minimum trench separation is 10 feet on all trenches utilizing sidewall reduction credit.
- 2.) Sidewall Reduction Credit should be $2+2/2+1+2(3) = 0.44$ (not 0.36)

Please revise the plan accordingly. Should you have any questions, please don't hesitate to ask.

Respectfully,

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
410.313.2648 (Fax)



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.

FOUNDATION CERTIFICATION
TRIADELPHIA MILL FARMS
 SECTION 1, AREA 2
 LOT 6
 13951 HALLOWELL COURT

5th ELECTION DISTRICT, HOWARD COUNTY, MARYLAND ZONE: RC-DEO
 PLAT C.M.P. NO. 4901, TAX MAP: 28, GRID: 19, PARCEL: 138

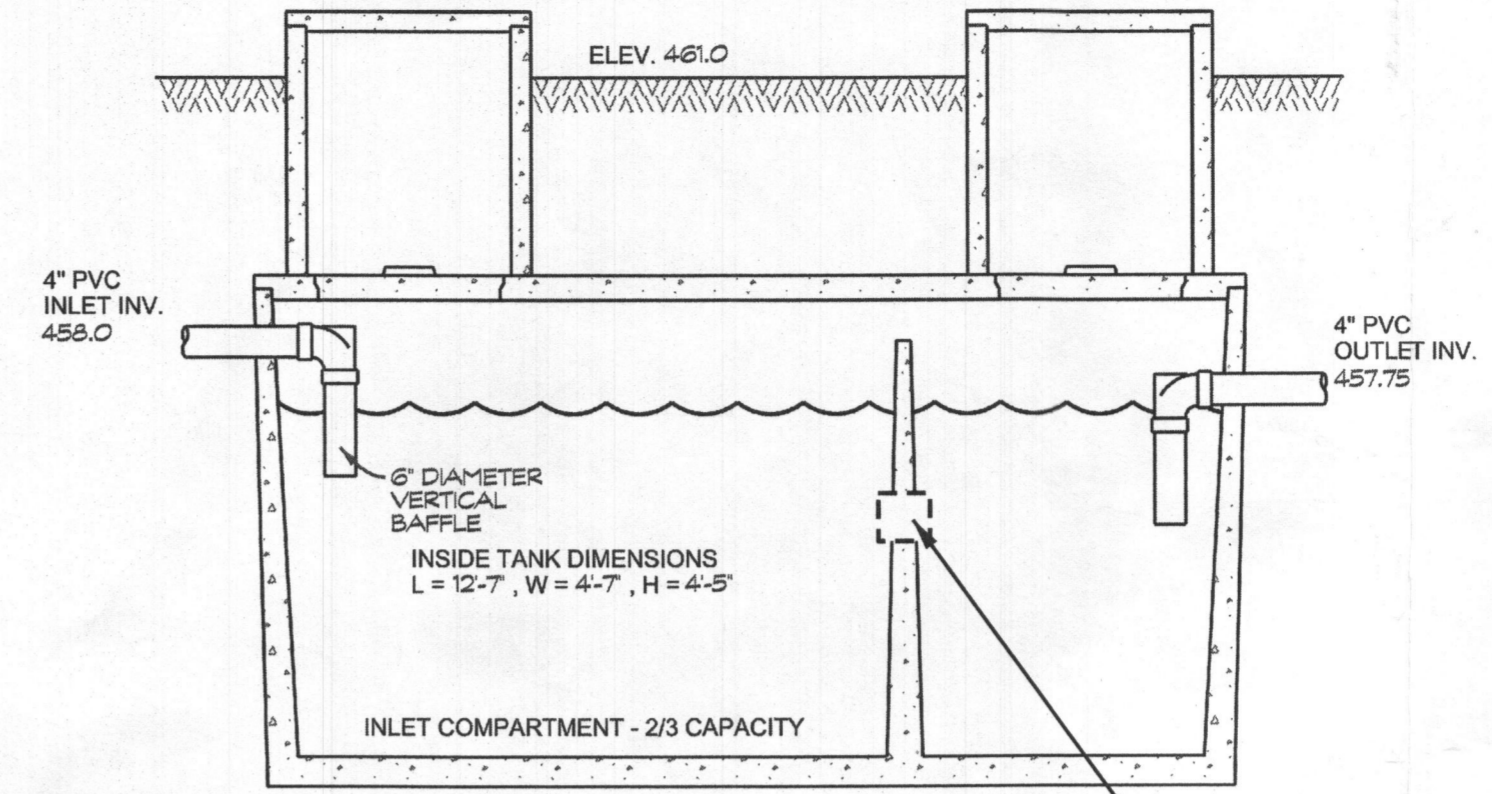
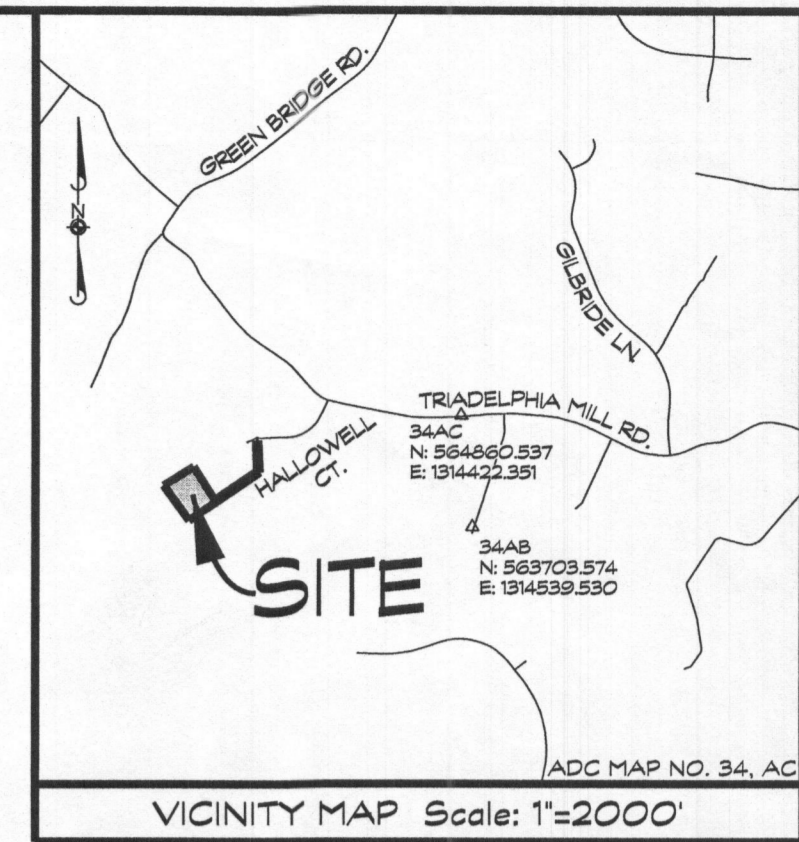
By: Dennis E. Meckley Date: 10/10/17
 Dennis E. Meckley Property Line Surveyor No. 10844
 License expires March 29, 2018

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)



439 East Main Street Westminster, MD 21157-5539
 (410) 845-1790 FAX (410) 845-1791

DRAWN BY:	JLW
DESIGN BY:	
REVIEW BY:	DEM
DATE:	10-10-17
SCALE:	1" = 100'
JOB NO:	2016195
SHEET:	1 OF 1

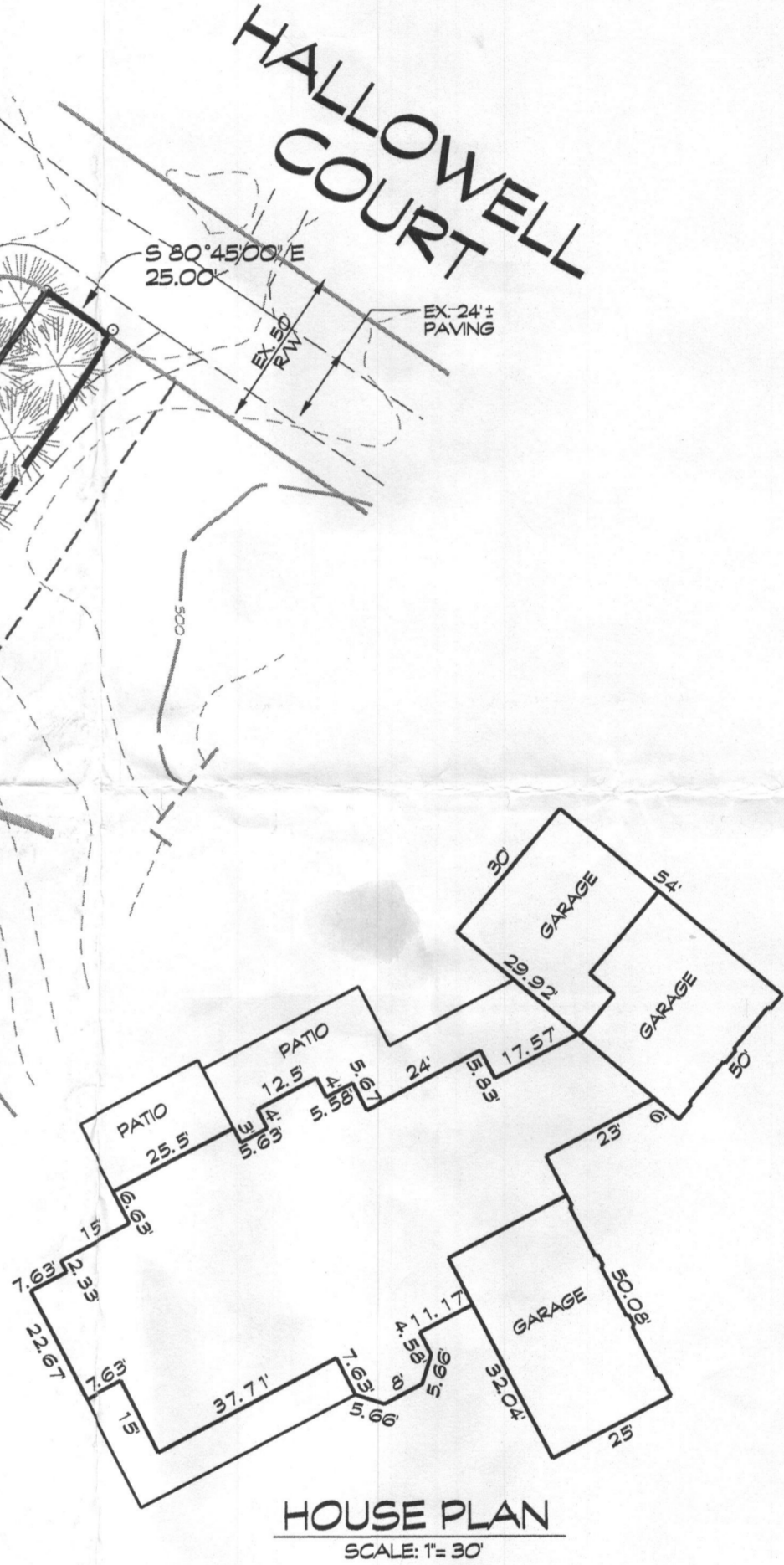


NOTE:
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TERMINATE AT LEAST 6" ABOVE
FINAL GRADE.

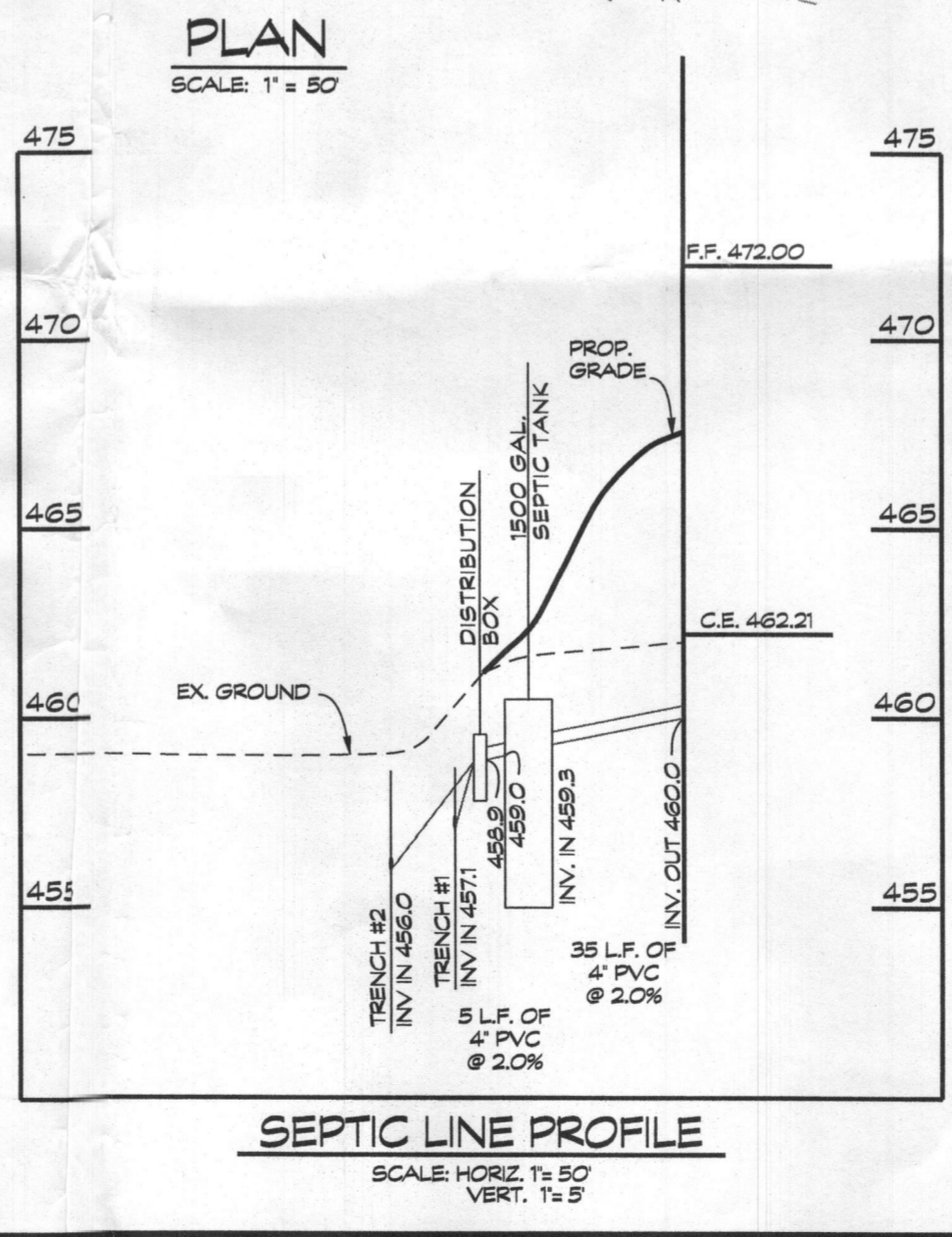
NOTE:
SLUT IS 2" HIGH BY 4" LONG
IN CENTER OF LIQUID DEPTH

TRENCH CHART

TRENCH	EX. GROUND	INV. ELEV.	BOTTOM OF TRENCH
1	460.1	457.1	453.1
2	459.0	456.0	452.0



Approved Septic System Plan
Howard County Health Department
Mark Oswald
Signature Date



CAD Drawing File Name: g:\2015\163\Prelim\Sheen\Peric Plan.dgn

LEGEND

- ▲ EXISTING WELL LOCATION
- Grb SOIL LINES
- MCD
- ▨ DENOTES - TOTAL PROPOSED SEPTIC RESERVE EASEMENT AREA = 10,026 S.F. FOR THE PURPOSE OF LOT 6 SINGLE FAMILY RESIDENCE
- DENOTES FLOW DIRECTION
- SF DENOTES SILT FENCE
- SSF DENOTES SUPER SILT FENCE
- LOD DENOTES LIMIT OF DISTURBANCE
- STABILIZED CONSTRUCTION ENTRANCE
- EXISTING TREELINE
- PROPOSED TREELINE
- NON-ROOFTOP DISCONNECT
- APPROVED PERCOLATION TESTS

GENERAL NOTES

- THE STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY ROOFTOP & NON-ROOFTOP DISCONNECT, LANDSCAPE MITIGATION AND POROUS PAVING.
- THERE ARE NO STREAMS, PONDS, FLOODPLAINS, OR WETLANDS ON THIS LOT.

SEPTIC SYSTEM TRENCH DESIGN:

PROPOSED NUMBER OF BEDROOMS = 5
INITIAL SYSTEM:
APPLICATION RATE = 1.2
DESIGN FLOW: 150 GALS x 5 BEDROOMS = 750 GAL/DAY
750 GAL/DAY / 1.2 GAL/DAY/SQ. FT. = 625 SQ. FT.
625 SQ. FT. / 2 FT. = 312.5 USE 313 LF. OF TRENCH
313 LF. x 0.44 = 137.72 LF. USE 138 LF. OF TRENCH

REPLACEMENT SYSTEMS 1 & 2
APPLICATION RATE = 0.8
DESIGN FLOW: 150 GALS x 5 BEDROOMS = 750 GAL/DAY
750 GAL/DAY / 0.8 GAL/DAY/SQ. FT. = 937.5 SQ. FT.
937.5 SQ. FT. / 2 FT. = 468.75 USE 469 LF. OF TRENCH
469 LF. x 0.44 = 206.36 USE 207 LF. OF TRENCH
USE 3 = 69 LF. OF TRENCH

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 # HO-94-3708) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
- BASEMENT IS SHOWN AS FINISHED WITH NO BEDROOMS.
- TANK MEASUREMENTS AND ELEVATIONS ARE BASED ON SEPTIC TANKS AS MANUFACTURED BY HAYER BROS., ELKRODGE, MD 410-798-1434
- 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.

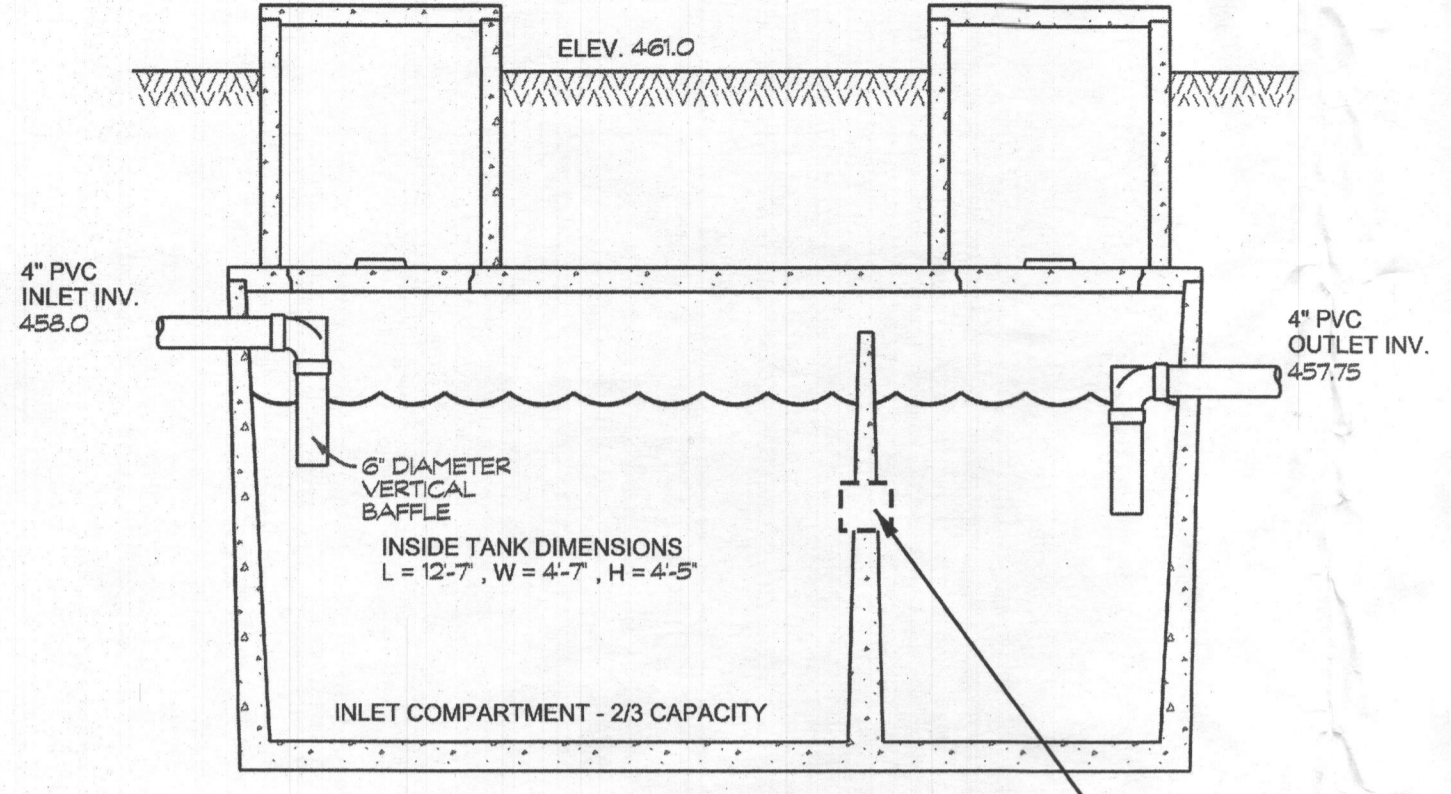
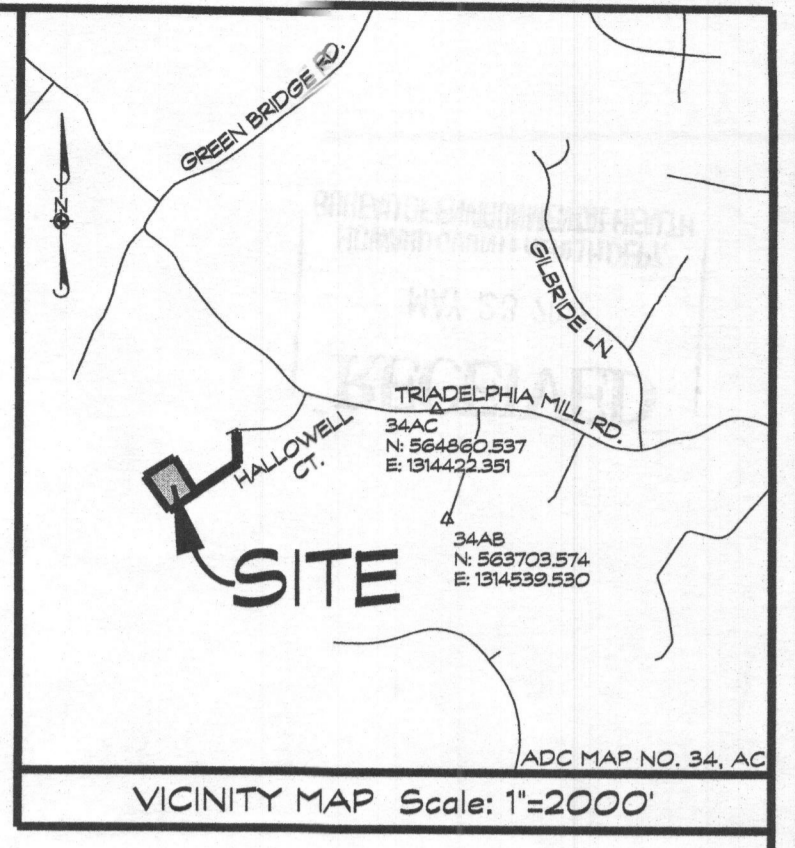
ONSITE SEWAGE DISPOSAL
SYSTEM DESIGN PLAN
TRIADELPHIA MILL FARMS
SECTION 1, AREA 2
LOT 6
13951 HALLOWELL COURT
5th ELECTION DISTRICT, HOWARD COUNTY, MARYLAND ZONE: RC-DEO
PLAT C.M.P. NO: 4901, TAX MAP: 28, GRID: 19, PARCEL: 138

Linda D. Alexander
Qualified Professional

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

Date	Revisions	Drawn By: BM
4/27/17	ADDRESS AGENCY COMMENTS - TLR	Designed By: JF
		Reviewed By:
		Date: MARCH, 2017
		Scale: AS SHOWN
		Job No.: 2016195
		Sheet: 1 OF 2

OWNER/DEVELOPER
CHRISTOPHER MONROE &
NUREYA MONROE
12219 GARRISON FOREST ROAD
OWINGS MILLS, MD 21117
(304) 713-3692



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

**TOP SEAM
1500 GAL SEPTIC TANK**
(NOT TO SCALE)

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

TRENCH CHART

TRENCH	EX. GROUND	INV. ELEV.	BOTTOM OF TRENCH
1	460.1	457.1	453.1
2	459.0	456.0	452.0



- LEGEND**
- ▲ EXISTING WELL LOCATION
 - GrB SOIL LINES
 - MCD
 - ▨ DENOTES - TOTAL PROPOSED SEPTIC RESERVE BASIN AREA = 10,026 S.F. FOR THE PURPOSE OF LOT 6 SINGLE FAMILY RESIDENCE
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 - ▭ PROPOSED TREELINE
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 - ⊙ APPROVED PERCOLATION TESTS

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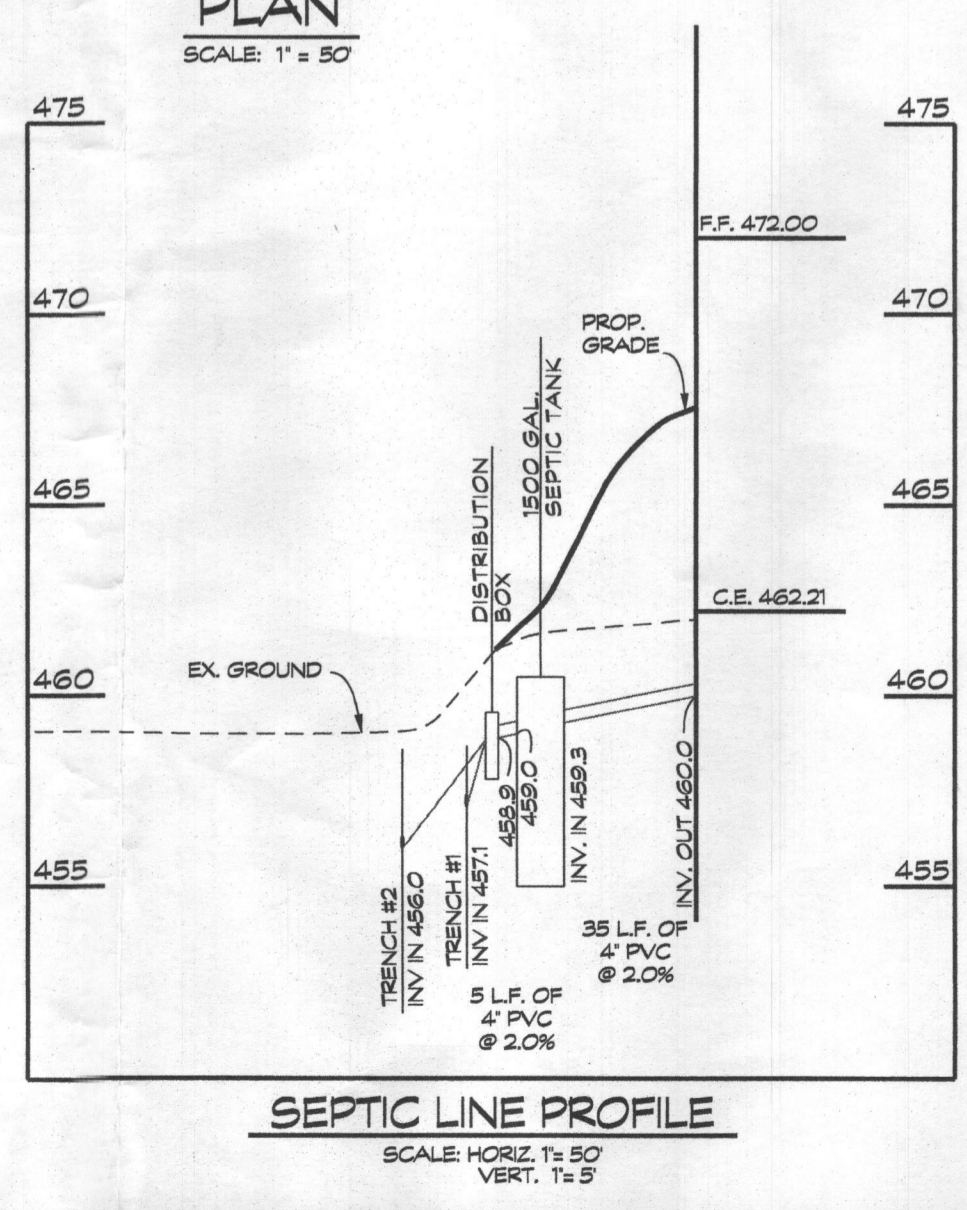
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 625 SQ. FT. / 2 FT. = 312.5 USE 313 LF. OF TRENCH
 313 LF. x 0.44 = 137.72 LF. USE 138 LF. OF TRENCH

REPLACEMENT SYSTEMS: 2
 APPLICATION RATE = 0.8
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 USE 3' - 69 LF. OF TRENCH

PLAN NOTES

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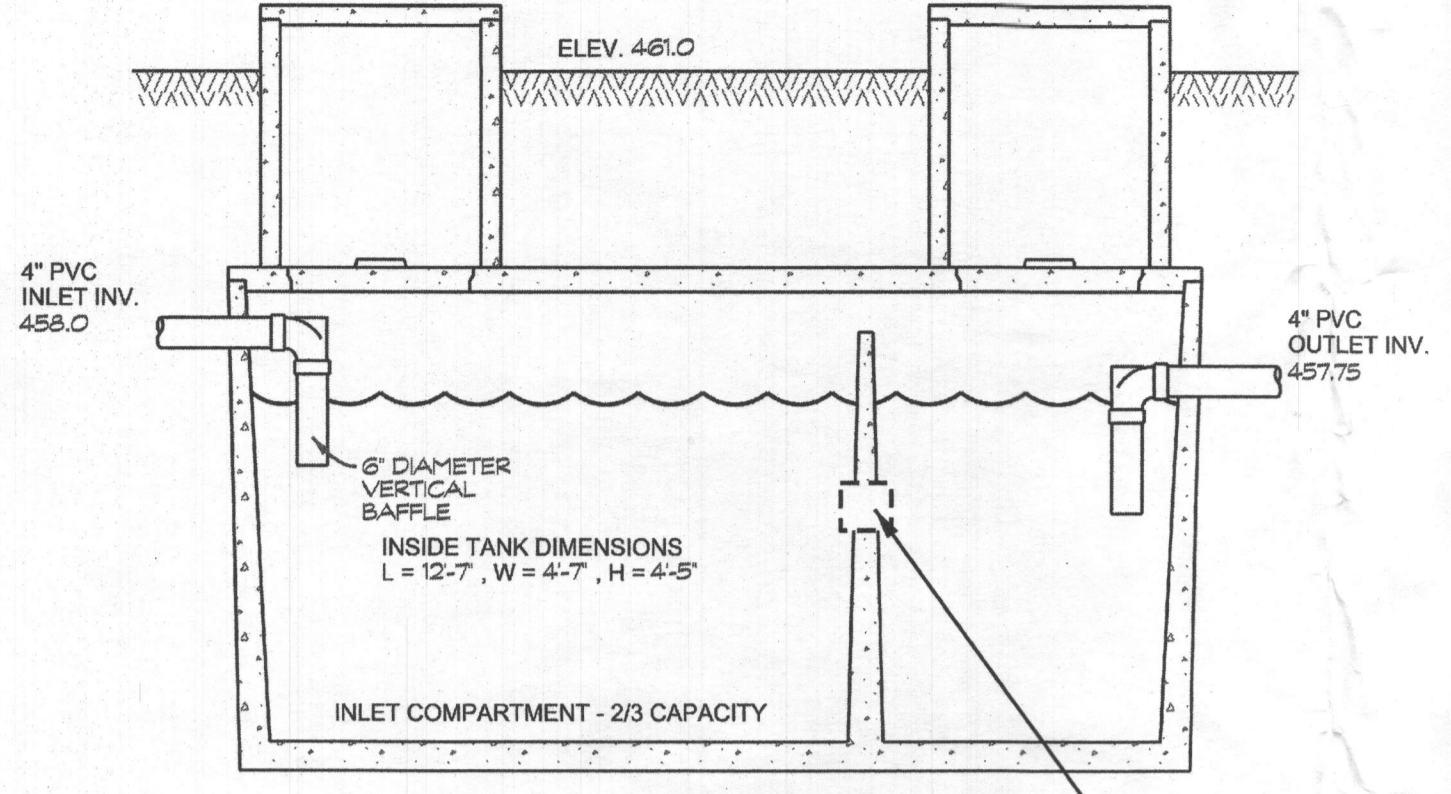
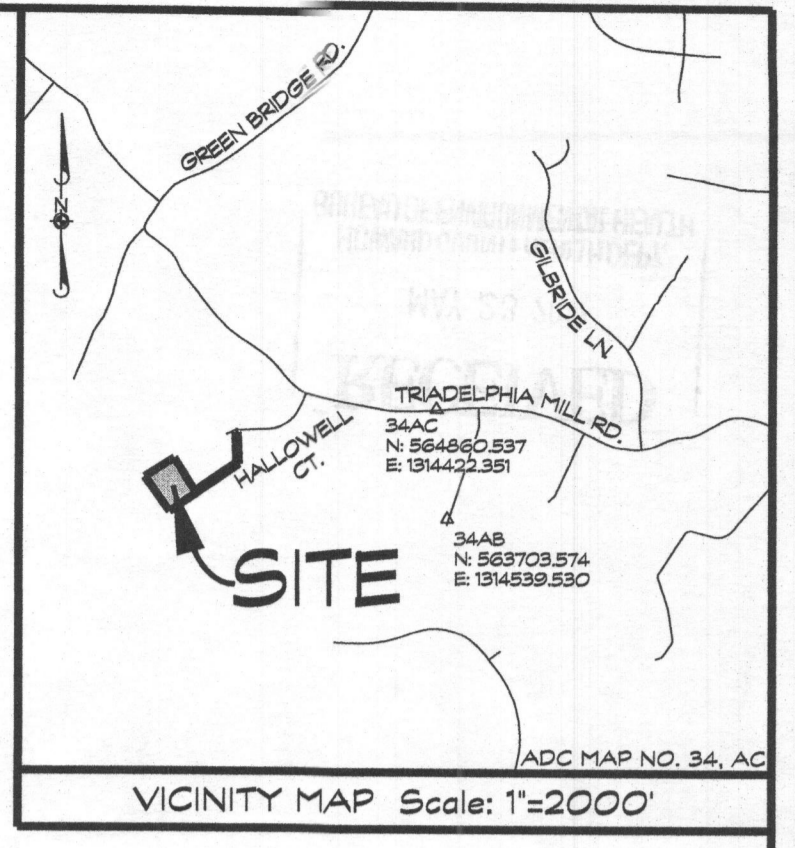
ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
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 PLAT C.M.P. NO. 4801, TAX MAP, 28, GRID: 19, PARCEL: 138

Handwritten signature: Linda D. Alexander
 Linda D. Alexander
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CLSI
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NOTE:
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**TOP SEAM
1500 GAL SEPTIC TANK**
(NOT TO SCALE)

NOTE:
SLOT IS 2" HIGH BY 4" LONG
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TRENCH CHART

TRENCH	EX. GROUND	INV. ELEV.	BOTTOM OF TRENCH
1	460.1	457.1	453.1
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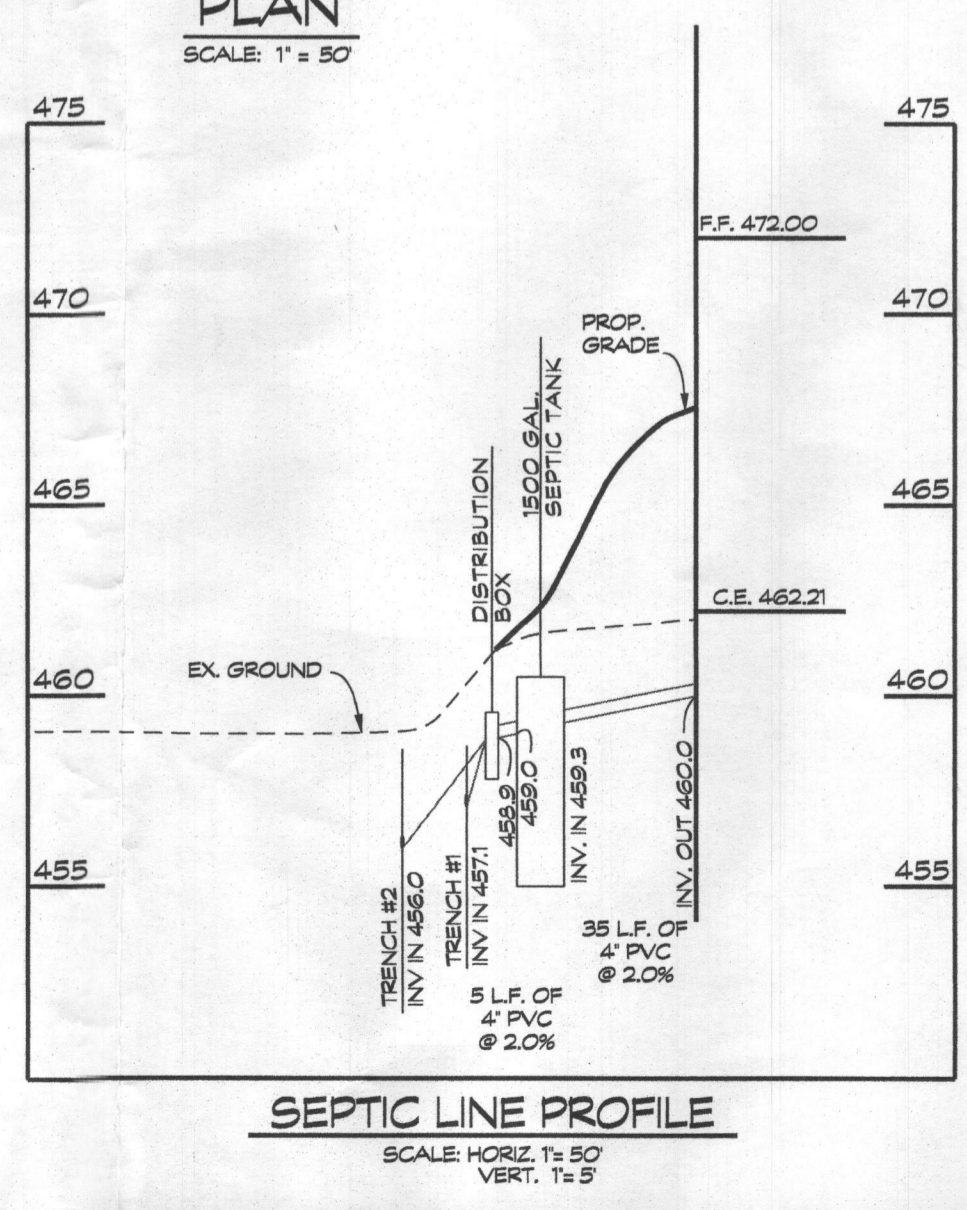
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625 SQ. FT. / 2 FT. = 312.5 USE 313 LF. OF TRENCH
313 LF. x 0.44 = 137.72 LF. USE 138 LF. OF TRENCH

REPLACEMENT SYSTEMS: 2
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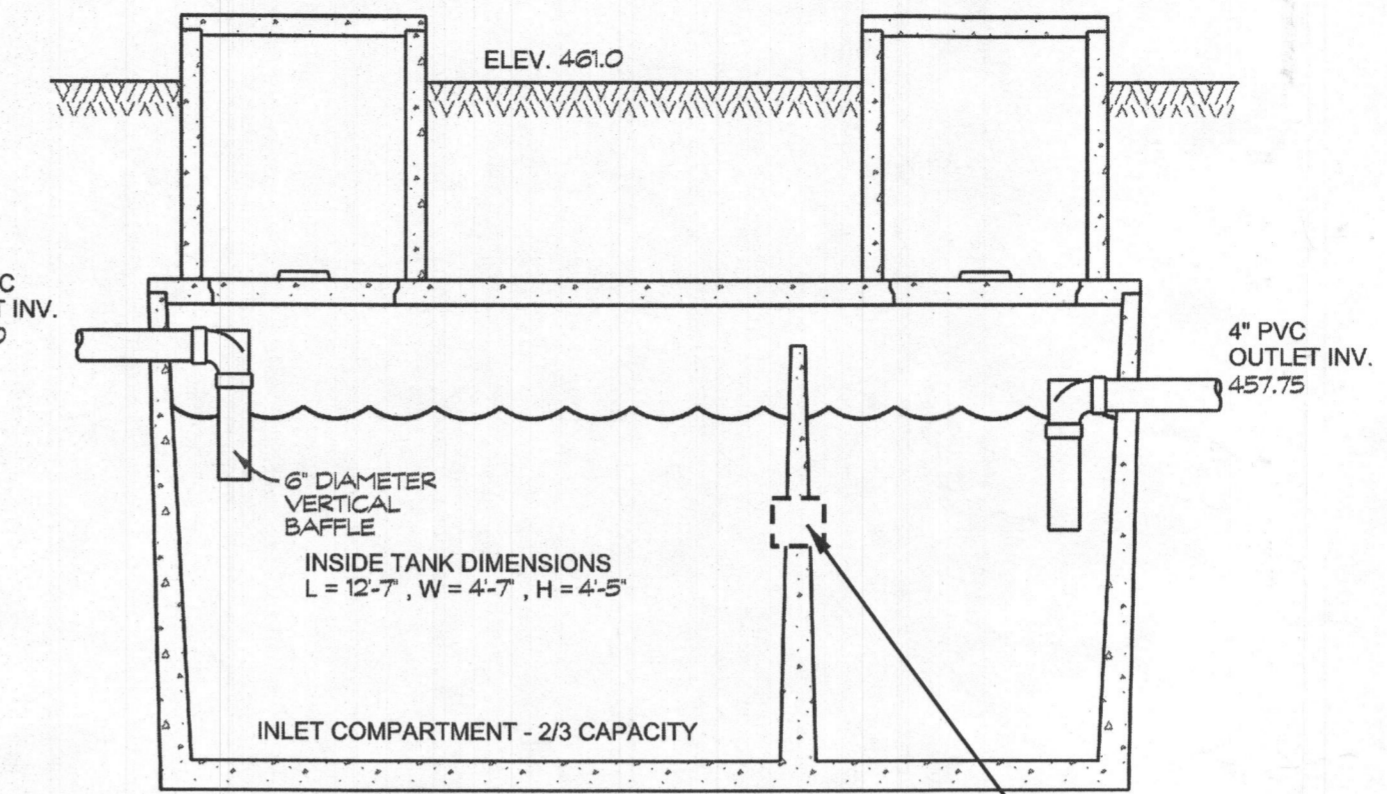
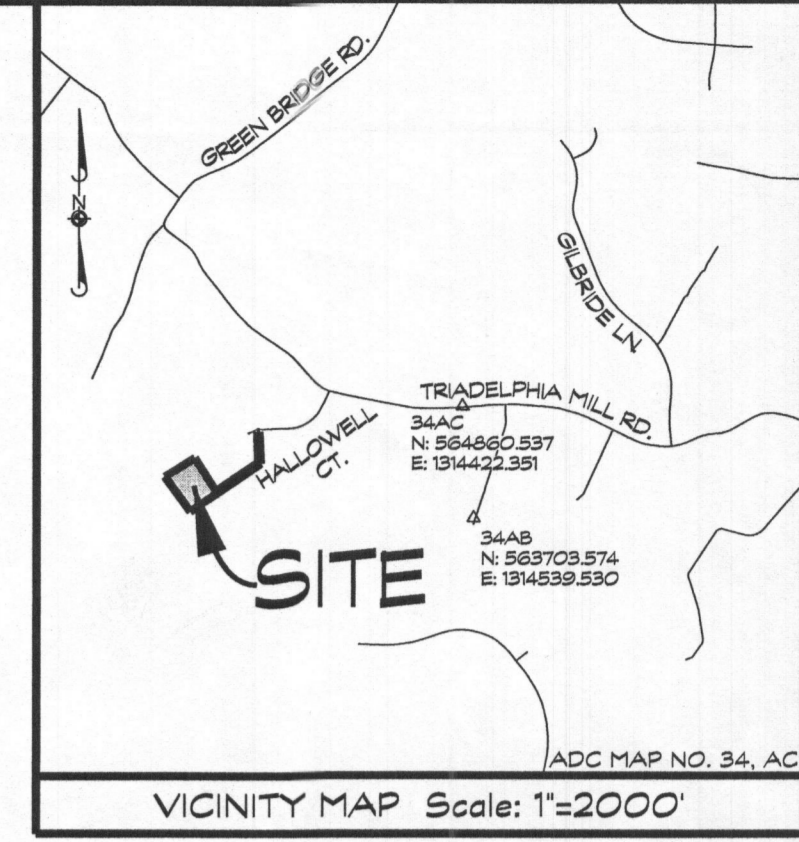
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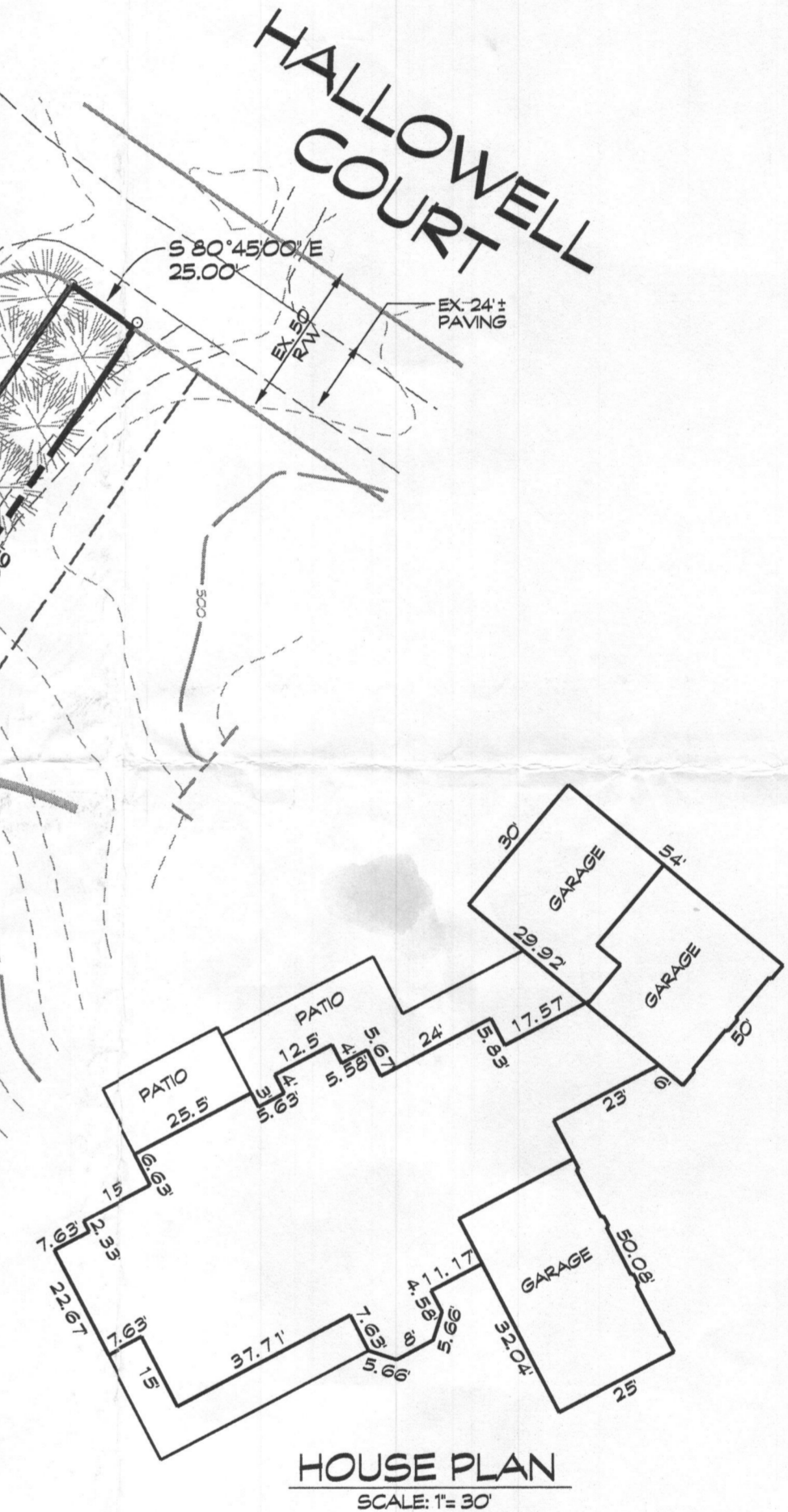
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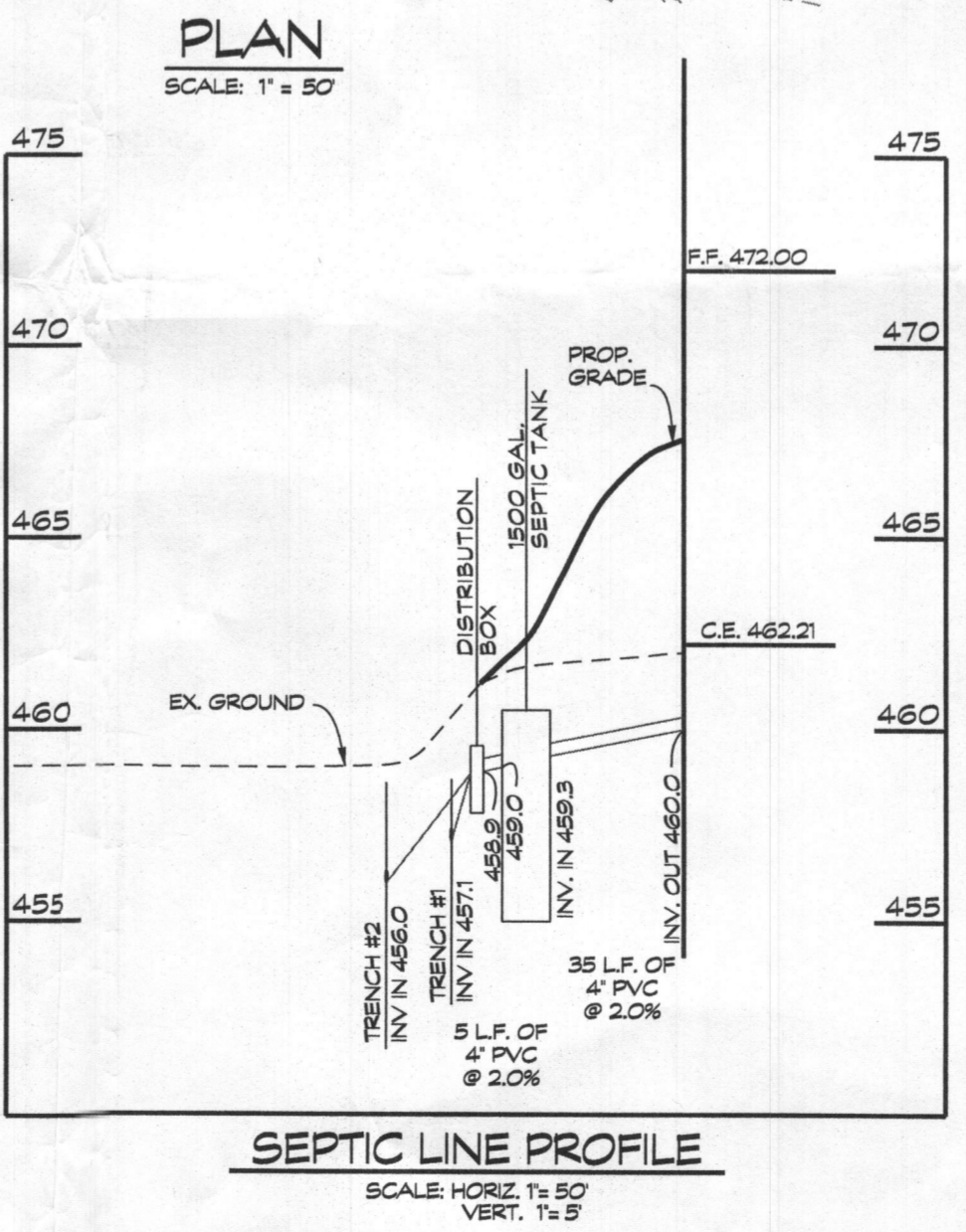
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Approved Septic System Plan
Howard County Health Department
Mark Oswald 5/1/17
Signature Date



SEPTIC LINE PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

- LEGEND**
- ▲ EXISTING WELL LOCATION
 - Grb SOIL LINES
 - McD
 - ▨ DENOTES - TOTAL PROPOSED SEPTIC RESERVE EASEMENT AREA = 10,026 S.F. FOR THE PURPOSE OF LOT 6 SINGLE FAMILY RESIDENCE
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- GENERAL NOTES**
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937.5 SQ. FT. / 2 FT. = 468.75 USE 469 LF. OF TRENCH
469 LF. x 0.44 = 206.36 USE 207 LF. OF TRENCH
USE 3 - 69 LF. OF TRENCH

- 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 MINIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
 - THE WELL (TAG # HO-94-3705) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
 - BASEMENT IS SHOWN AS FINISHED WITH NO BEDROOMS.
 - TANK MEASUREMENTS AND ELEVATIONS ARE BASED ON SEPTIC TANKS AS MANUFACTURED BY MAYER BROS., ELKRODGE, MD. 410-796-1434
 - 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.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
TRIADELPHIA MILL FARMS
SECTION 1, AREA 2
LOT 6
13951 HALLOWELL COURT
5th ELECTION DISTRICT, HOWARD COUNTY, MARYLAND ZONE: RC-DEO
PLAT C.M.P. NO. 4901, TAX MAP: 28, GRID: 19, PARCEL: 136

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Qualified Professional

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Date	Revisions	Drawn By: BM
4/27/17	ADDRESS AGENCY COMMENTS - TLR	Designed By: JF
		Reviewed By:
		Date: MARCH, 2017
		Scale: AS SHOWN
		Job No.: 2016195
		Sheet: 1 OF 2

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CAD Drawing File Name: g:\2016\63\Prelim\Sheet\Perc Plan.dgn