

240 626 8614

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: 1/3/18 **ONSITE SEWAGE DISPOSAL SYSTEM** P 562382

APPROVAL DATE: 10/16/18 *(Kms)* **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 15040 Double Bridges Court

SUBDIVISION: Meriwether Farm LOT: 2 TAX ID: _____

CONTRACTOR: J & A Construction Services EMAIL: _____

CONTRACTOR ADDRESS: 7991 Bennett Branch Road, Mount Airy, MD 21771 PHONE: 410-635-2484

PROPERTY OWNER: Patapsco Builders Inc. EMAIL: _____

OWNER ADDRESS: 5820 Waterloo Road, Suite 140, Columbia, MD 21045 PHONE: _____

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Babylon

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

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

TRENCHES:	LINEAR FEET REQUIRED: <u>174</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>5</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</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:		

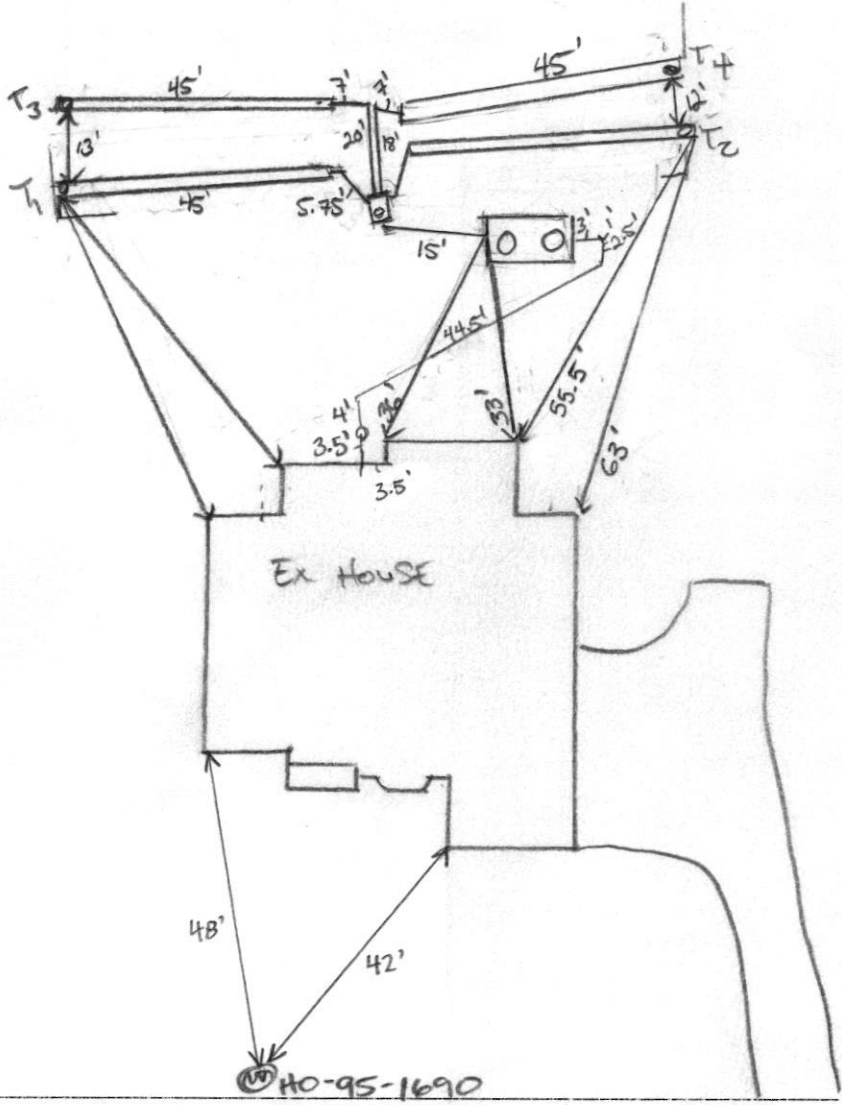
ISSUED BY: Hank Oswald ISSUE DATE: 3-5-18 EXPIRATION DATE: 1-3-19

- 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.

1" = 30'

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	5'
NUMBER OF TRENCHES		4
TOTAL LENGTH		180'
ABSORPTION AREA		540 sqft
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		yes

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	Dwl
MANUFACTURER	Babylon
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	~1.5' - 2.0'
BAFFLES	yes
BAFFLE FILTER	NO
MANHOLE LOC	Front/Back
6" PORT LOC	Inlet
WATERTIGHT TEST	N/A
SLOTTED	yes
DATE ON LID	2-23-18
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	

DOUBLE ROAD NAME BRIDGES

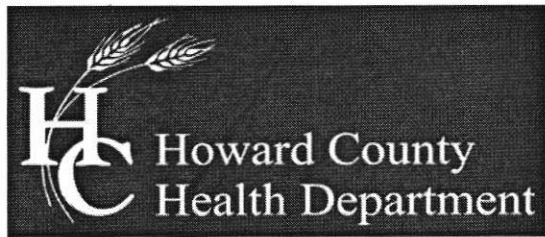
PRE-CONSTRUCTION:

4/10/18 Contour shot in field. Same as approved O&S plan. Sewer have not as per plan. coming out on opp side of house. Plenty of fill should be ok. S.T. to come up will give 2' or 3'. Call for map (KWD)

INSTALLATION:

4/10/18 (pm) Tank Set. @ 4/11/2018 High trenches dug, T1 complete, ok to backfill to continue const. T2 needs more stone. 4/12/18 T2 + T4 complete. Trenches connected to D Box. D Box leveled. @ 4/13/2018 SHC + Sewer line installed from house to ST. Reinspect for inlet baffle extend 1/8" below invert. Currently extends 6.5" below invert. @ 10/16/18 site visit made by S. Collins to confirm baffle extension. could not open lid on tank. phone call made to contractor.

FINAL INSPECTOR K. Wolf DATE OF APPROVAL 10/16/18



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Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 15040 Double Bridges

Subdivision: Meiwether

Lot: 2

Initial system: Application rate: 1.2 Effective area beginning depth: 4' Bottom maximum depth: 5'

1st Replacement: Application rate: 1.2 Effective area beginning depth: 4' Bottom maximum depth: 5'

2nd Replacement: Application rate: 1.2 Effective area beginning depth: 4' Bottom maximum depth: 5'

Design Flow = 150 gallons per day per bedroom

Design flow ÷ application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage ÷ trench width

Sidewall reduction credit formula:

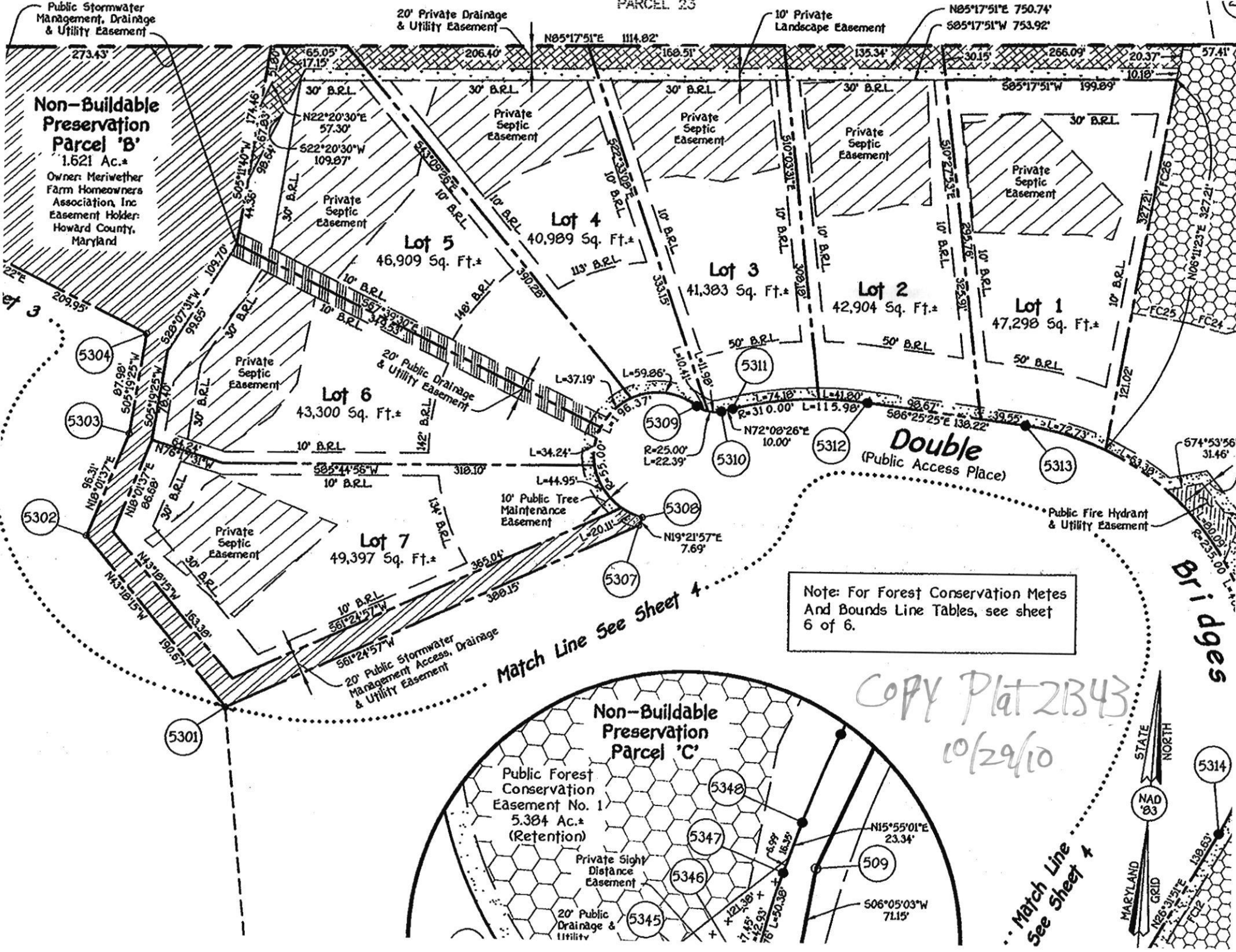
$$\frac{W + 2}{W + 1 + 2D} \times 100 = \text{Percent of length of standard trench where } W = \text{trench width and } D = \text{depth between effective area beginning depth and trench bottom.}$$

Standard design requirements:

- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Minimum trench spacing: 6' for 2' wide trenches, 9' for 3' wide trenches. Additional spacing may be needed for deep trenches using formula: $2D + W$
- Maximum trench length is 100'
- Maximum pipe depth is 4'

Additional requirements:

PARCEL 23



Public Stormwater Management, Drainage & Utility Easement

20' Private Drainage & Utility Easement

10' Private Landscape Easement

N05°17'51"E 750.74'
S05°17'51"W 753.92'

Non-Buildable Preservation Parcel 'B'
1.621 Ac.*
Owner: Meriwether Farm Homeowners Association, Inc
Easement Holder: Howard County, Maryland

30' B.R.L.
N22°20'30"E 57.30'
S22°20'30"W 109.07'

Private Septic Easement

Private Septic Easement

Private Septic Easement

Private Septic Easement

Lot 5
46,909 Sq. Ft.*

Lot 4
40,989 Sq. Ft.*

Lot 3
41,303 Sq. Ft.*

Lot 2
42,904 Sq. Ft.*

Lot 1
47,298 Sq. Ft.*

Lot 6
43,300 Sq. Ft.*

Lot 7
49,397 Sq. Ft.*

Double
(Public Access Place)

Public Fire Hydrant & Utility Easement

Note: For Forest Conservation Metes And Bounds Line Tables, see sheet 6 of 6.

Match Line See Sheet 4

Non-Buildable Preservation Parcel 'C'

Public Forest Conservation Easement No. 1
5.384 Ac.*
(Retention)

Private Sight Distance Easement

20' Public Drainage & Utility

COPY Plat 2B43

10/29/10

Match Line See Sheet 4



Bridges

5314

509

5348

5347

5346

5345

5308

5310

5312

5313

5311

5304

5303

5302

5301

574°53'56" 31.46'

6°23'50" 1.40'

121.02'

327.21'

327.21'

327.21'

327.21'

327.21'

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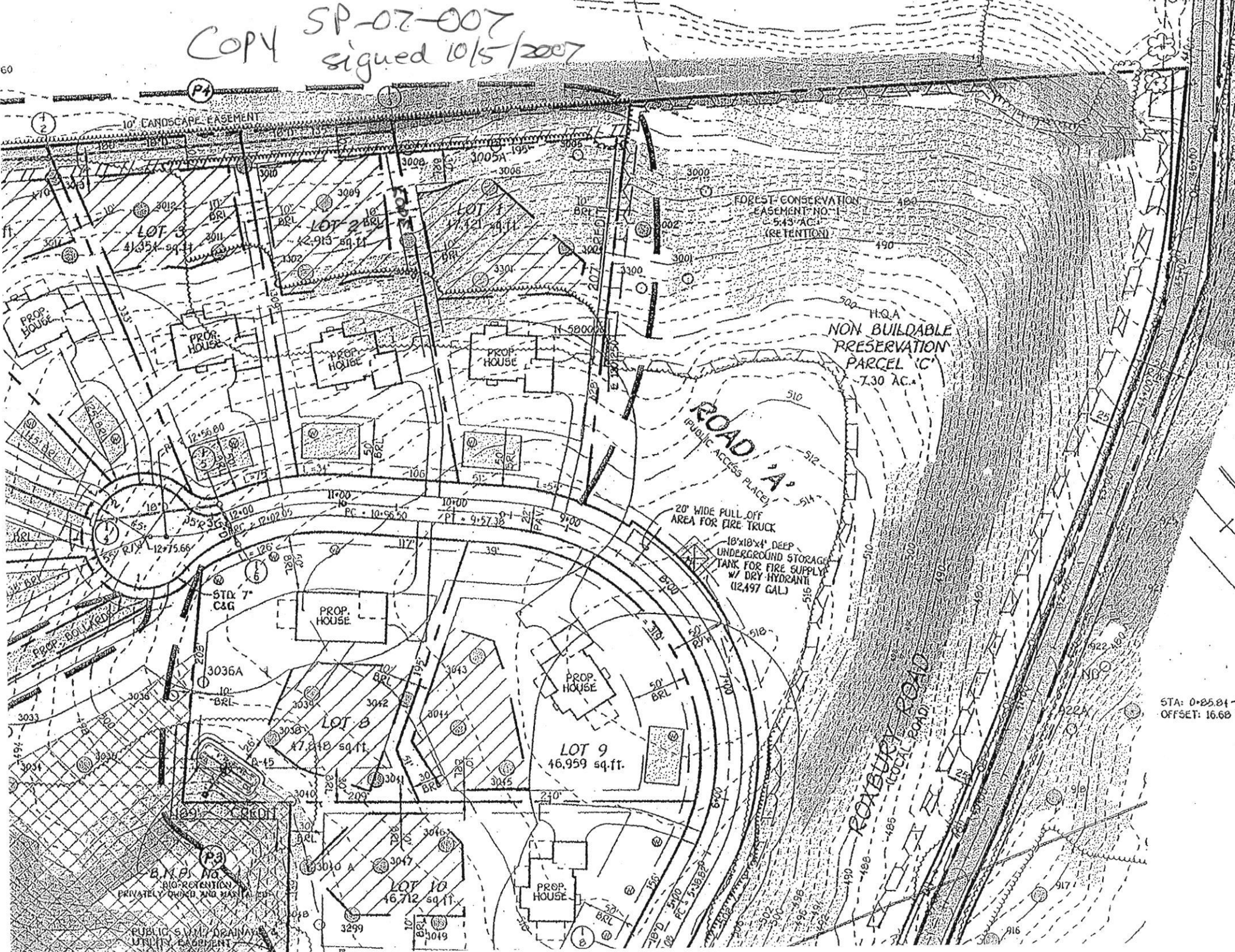
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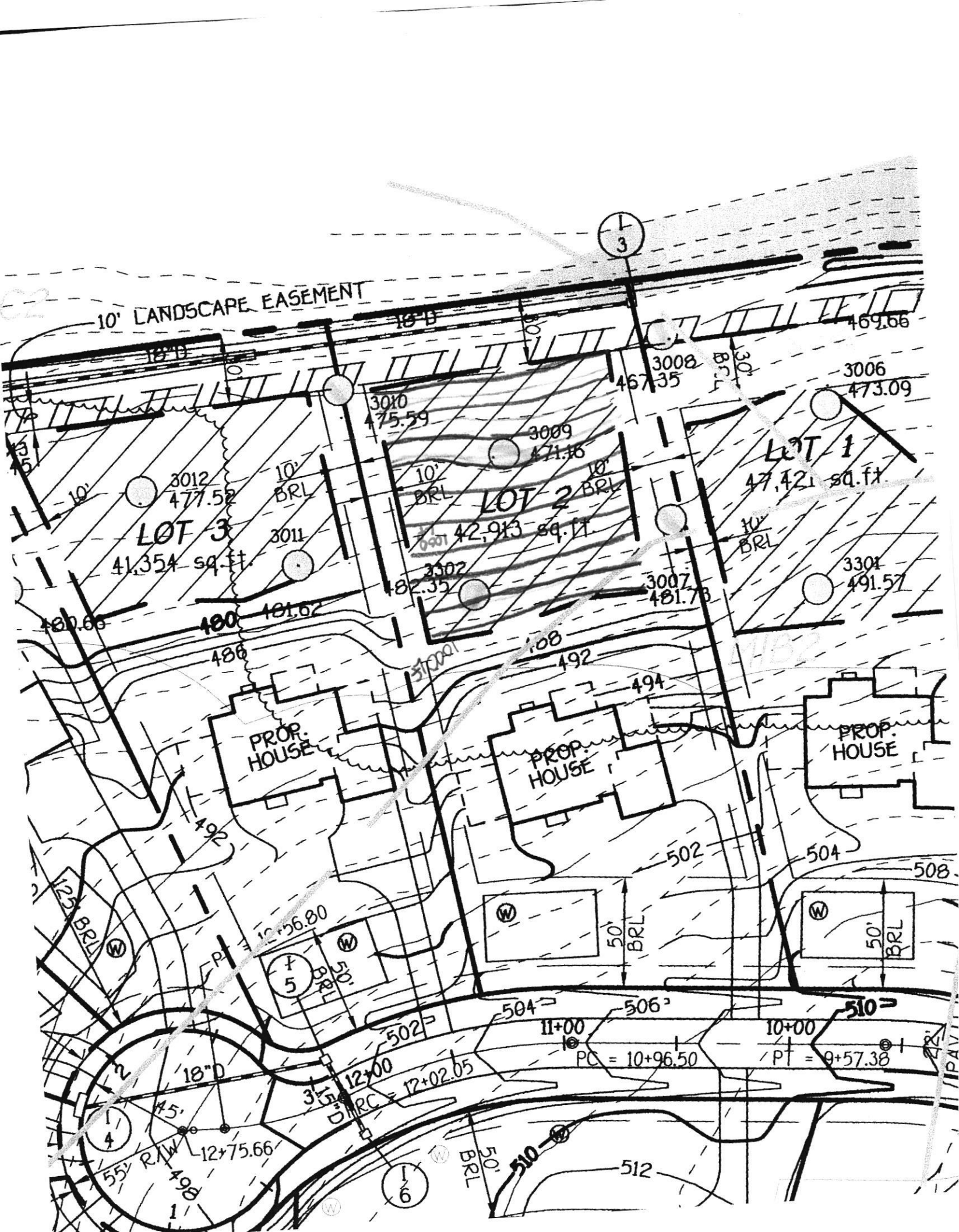
20.37'

20.37'

COPY SP-07-007
signed 10/5/2007



STA: 0+85.84
OFFSET: 16.68 L



3' inlet
5' max bottom

* No SW due to shallow hole 3009
* $250' \text{ per system} = 750 / 3 = 250'$

$$6 \times 150 = 900 \div 1.2 = 750 / 3 = 250'$$

GBR design

Oswald, Hank

From: Oswald, Hank
Sent: Monday, January 22, 2018 9:11 AM
To: Stephanie Tuite (Stephanie@fcc-eng.com)
Subject: OSDS Plan_15040 Double Bridges Court
Attachments: OSDS Design Plan Requirements_Updated 5.31.17.pdf

Hello Stephanie:

Good morning. The following comments pertain to the review of the OSDS Plan for 15040 Double Bridges Court.

- 1.) Add required notes to plan (Please see attachment, pg. 2).
- 2.) Show separation between trenches.
- 3.) Label replacement trenches.
- 4.) Septic Profile % fall are labeled incorrectly and should be 14, 10 and 6 %. In addition, adjust last 5 feet of line to 2 – 5 %.

Should you have questions, please don't hesitate to ask.

Respectfully,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
hoswald@howardcountymd.gov

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Oswald, Hank

From: Oswald, Hank
Sent: Monday, February 05, 2018 8:42 AM
To: Stephanie Tuite (Stephanie@fcc-eng.com)
Subject: OSDS Plan_15040 Double Bridges Court

Hi Stephanie:

Good morning. Quick question about the OSDS Plan for 15040 Double Bridges Court. Are you proposing 2 – 87s or 4 - 43.5s trenches for each system? If its 2 trenches, then the d –box should be moved to the end of the initial trench like it was designed in 2014. If its 4 trenches then show separation between trenches.

Let me know if you have any questions.

Thanks,

Hank

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Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
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Williams, Jeffrey

From: Williams, Jeffrey
Sent: Friday, June 20, 2014 12:06 PM
To: Aldo Vitucci
Subject: BAT plan Meriwether lot 2
Attachments: 15040 Double Bridges_Septic spec worksheet_new.pdf

I've reviewed the BAT plan for Meriwether lot 2 and have the following comments:

The trench calculations were not done according to the proper specs. Please see the attached spec sheet. The trench max bottom depth is 5' with an effective area starting at 4' for a 1' sidewall credit.

Also, if the d-box is to go in the center of the easement, the trenches would go out on both sides from there, with shorter trenches extending in both directions towards the edges of the area.

The slope of the line from the house to tank and tank to d-box is too steep. If the slope is over 5%, you must show details of the line shallowing out to 2% in the last 5 feet before the tank and d-box.

Last, if there are any wells, wellboxes, or septic areas on the neighboring lots within 100' of the property line, they must be shown on the plan.

Jeff Williams
Program Supervisor, Well & Septic Program
Bureau of Environmental Health
Howard County Health Dept.
410-313-4261
jewilliams@howardcountymd.gov

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jewilliams@howardcountymd.gov

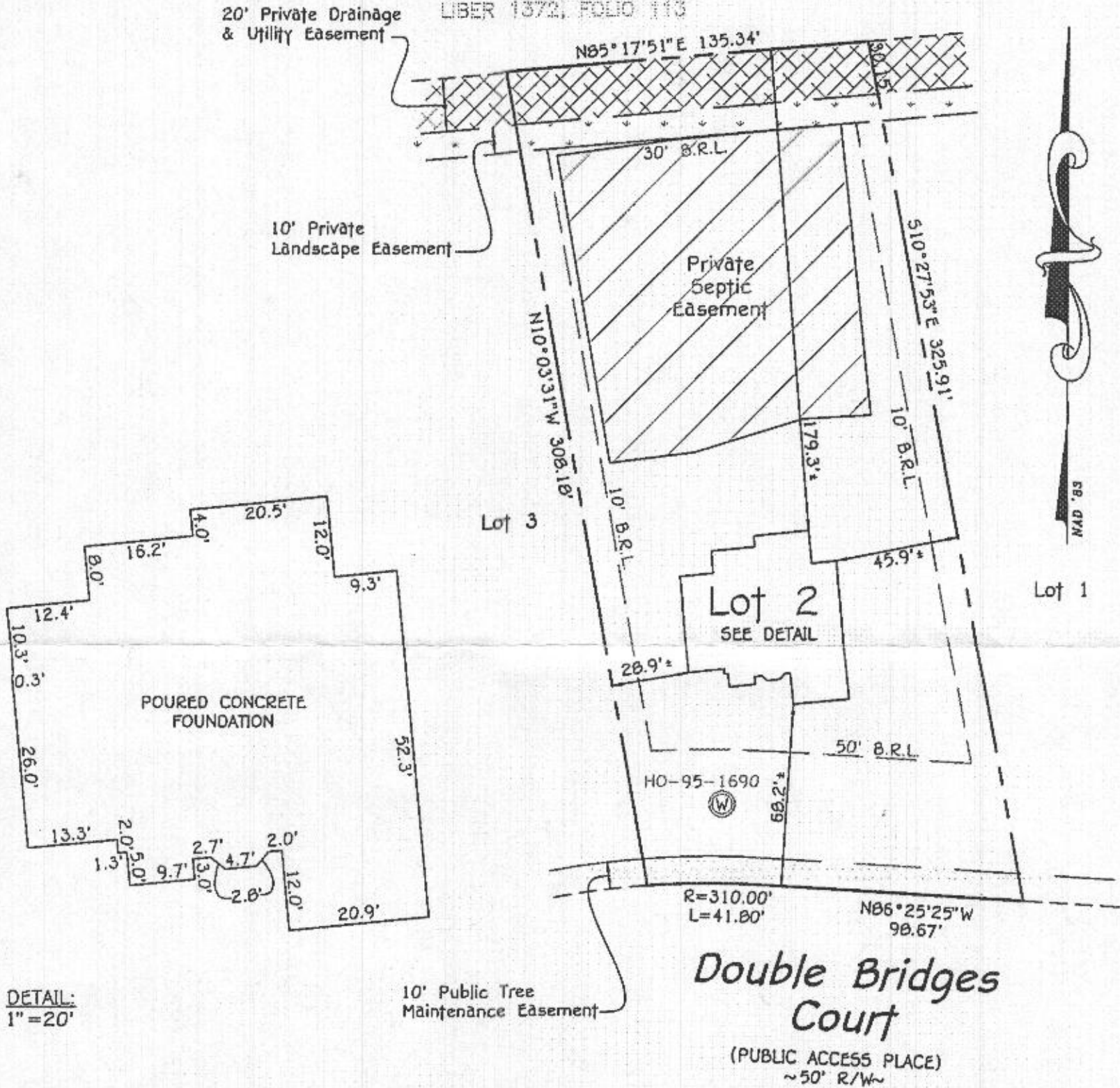
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GENERAL NOTES:

- 1) THIS LOCATION DRAWING IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM INSOFAR AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR REFINANCING OF THE PROPERTY SHOWN HEREON. UNLESS INDICATED AS BEING A BOUNDARY SURVEY, THIS LOCATION DRAWING IS NOT INTENDED FOR USE IN THE ESTABLISHMENT OF PROPERTY LINES AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATIONS OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE IMPROVEMENTS. AS A RESULT, THIS LOCATION DRAWING DOES NOT PROVIDE FOR ACCURATE IDENTIFICATION OF PROPERTY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING FOR RE-FINANCING.
- 2) SUBJECT PROPERTY IS SHOWN IN ZONE X ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL No. 2402760045D EFFECTIVE 11/06/2013.
- 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF PLUS OR MINUS 1'.
- 4) NO TITLE REPORT FURNISHED. SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND CONDITIONS OF RECORD.
- 5) THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-95-1690 HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.
- 6) PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 339, EXPIRATION DATE 10/04/2014.
- 7) BUILDING PERMIT #B-16005020

SAMUEL SEYMOUR AND JUDY SEYMOUR
LIBER 1372, FOLIO 113



DETAIL:
1" = 20'

#15040 DOUBLE BRIDGES COURT
TOP OF FOUNDATION ELEVATION = 502.3'
B.R.L. = BUILDING RESTRICTION LINE

LOT 2
MERIWETHER FARM
SECTION ONE
LOTS 1 THRU 12,
BUILDABLE PRESERVATION PARCEL 'A',
NON-BUILDABLE PRESERVATION PARCELS 'B'
THRU 'D' AND NON-BUILDABLE PARCEL 'E'
PLATS #21339 THRU #21344
FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461 - 2855



Mark L. Robel
PROPERTY LINE SURVEYOR
REG. #339
DATE: 11/15/17

HOUSE LOCATION DRAWING

FOUNDATION LOCATION: 11/9/17
FINAL LOCATION: _____
BOUNDARY SURVEY: _____

SCALE: 1" = 50'
DATE: 11/15/17
DRAWN BY: JMP
CHECKED BY: MLR
PROJECT No.: 04056-3005

3/5/17 - wall check
day 4.0.

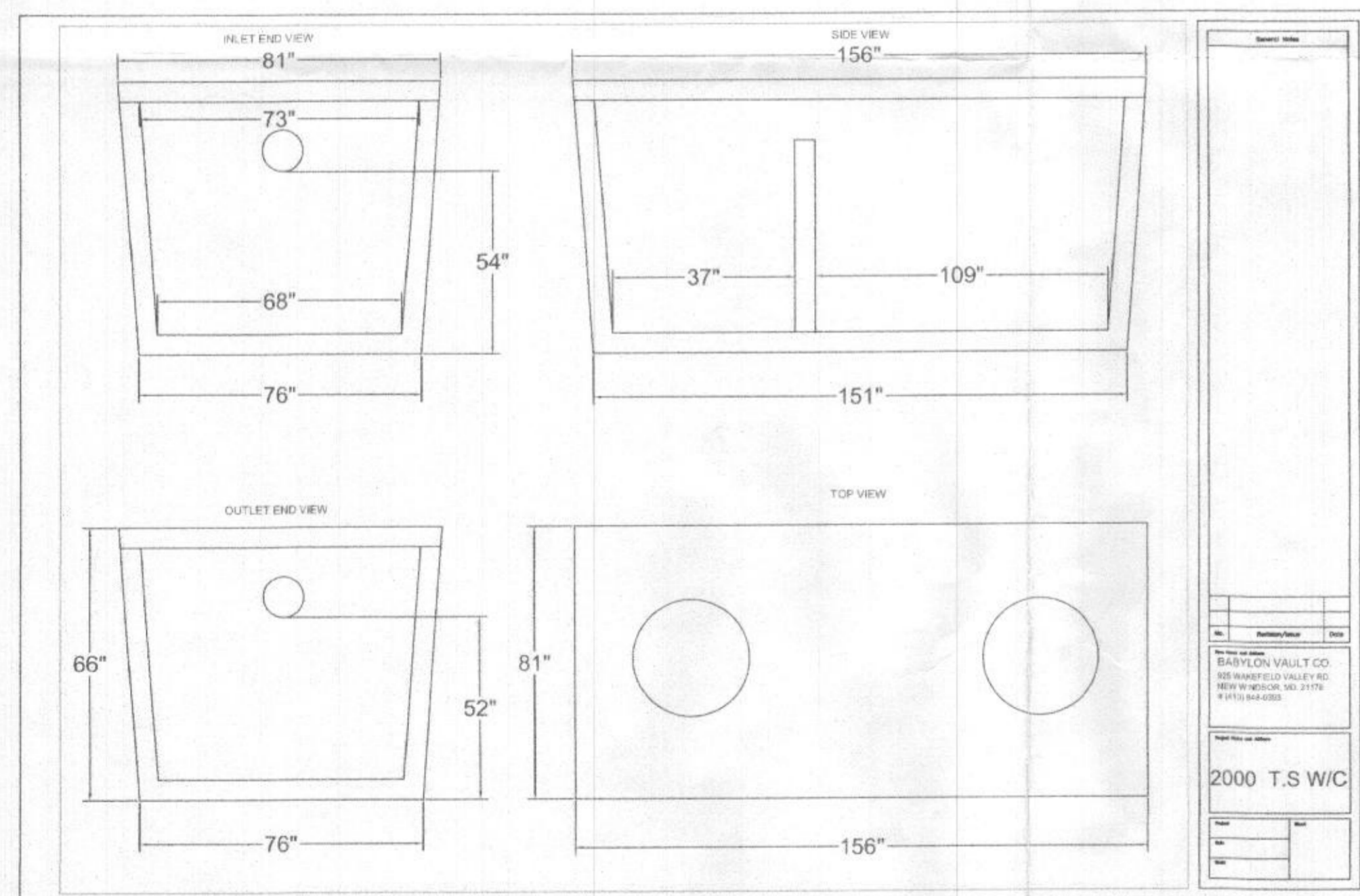
LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 2' INTERVAL
X362.5	SPOT ELEVATION
-SS-SS-	SUPER SILT FENCE
-SF-SF-	SILT FENCE
PERM	PERMANENT SOIL STABILIZATION MATING
LOD	LIMITS OF DISTURBANCE
---	SOILS LINE & TYPE
1005	FAILED PERC HOLE
1001	PASSED PERC HOLE

SEWAGE DISPOSAL SYSTEM DATA (PERMIT FOR 5 BEDROOMS)

- CLEANOUT**
EX. GRADE: 491.0
PROP. GRADE: 491.8
INV. IN: 486.35
INV. OUT: 486.25
- CLEANOUT**
EX. GRADE: 486.5
PROP. GRADE: 486.5
INVERT IN: 484.20
INVERT OUT: 483.20
- 2000 GALLON SEPTIC TANK**
EX. GRADE OVER TANK: 486.0
PROP. GRADE OVER TANK: 486.0
INVERT IN: 483.00
INVERT OUT: 482.83
- DISTRIBUTION BOX**
EX. GRADE: 485.00
INVERT IN: 482.1
INVERT OUT: 481.6
- TRENCH DESIGN:**
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 1.2
INITIAL EFFECTIVE SIDEWALL BEGINS AT 4 FEET
TRENCH DEPTH = 5 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 1 FEET
SF OF DRAINFIELD = 750 GPD / 1.2 = 625 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+2(1)) = 0.833$
TRENCH LENGTH = 625 SF X 0.833 / 3 = 173.5 FEET (USE 174 FEET)
TRENCH SPACING = $2D+W = (2(1) + 3) = 5$ USE 10'

TRENCH DATA:

- TRENCH 1:**
EX. GROUND ABOVE = 484.00
INV. IN = 480.00
BOTTOM TRENCH = 479.00
- TRENCH 2:**
EX. GROUND ABOVE = 481.70
INV. IN = 477.70
BOTTOM TRENCH = 476.70



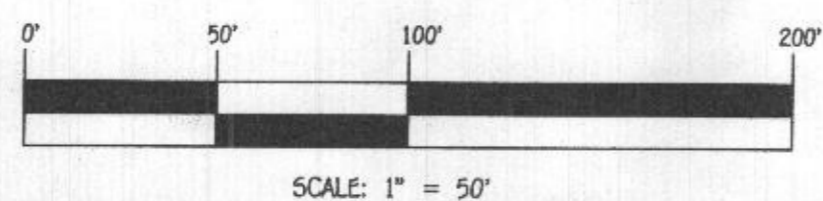
SOILS LEGEND			
SOIL	NAME	CLASS	Kw FACTOR
GgB	Glenelg loam, 3 to 8 percent slopes	B	0.28
GgC	Glenelg loam, 8 to 15 percent slopes	B	0.28
McC	Mānor-channery loam, 8 to 15 percent slopes	B	0.28
MAD	Mānor loam, 15 to 25 percent slopes	B	0.28
MkF	Mānor-brinklow complex, 25 to 65 percent slopes, very rocky	B	0.24

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS 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. 38386, EXPIRATION DATE: 01/12/2020.

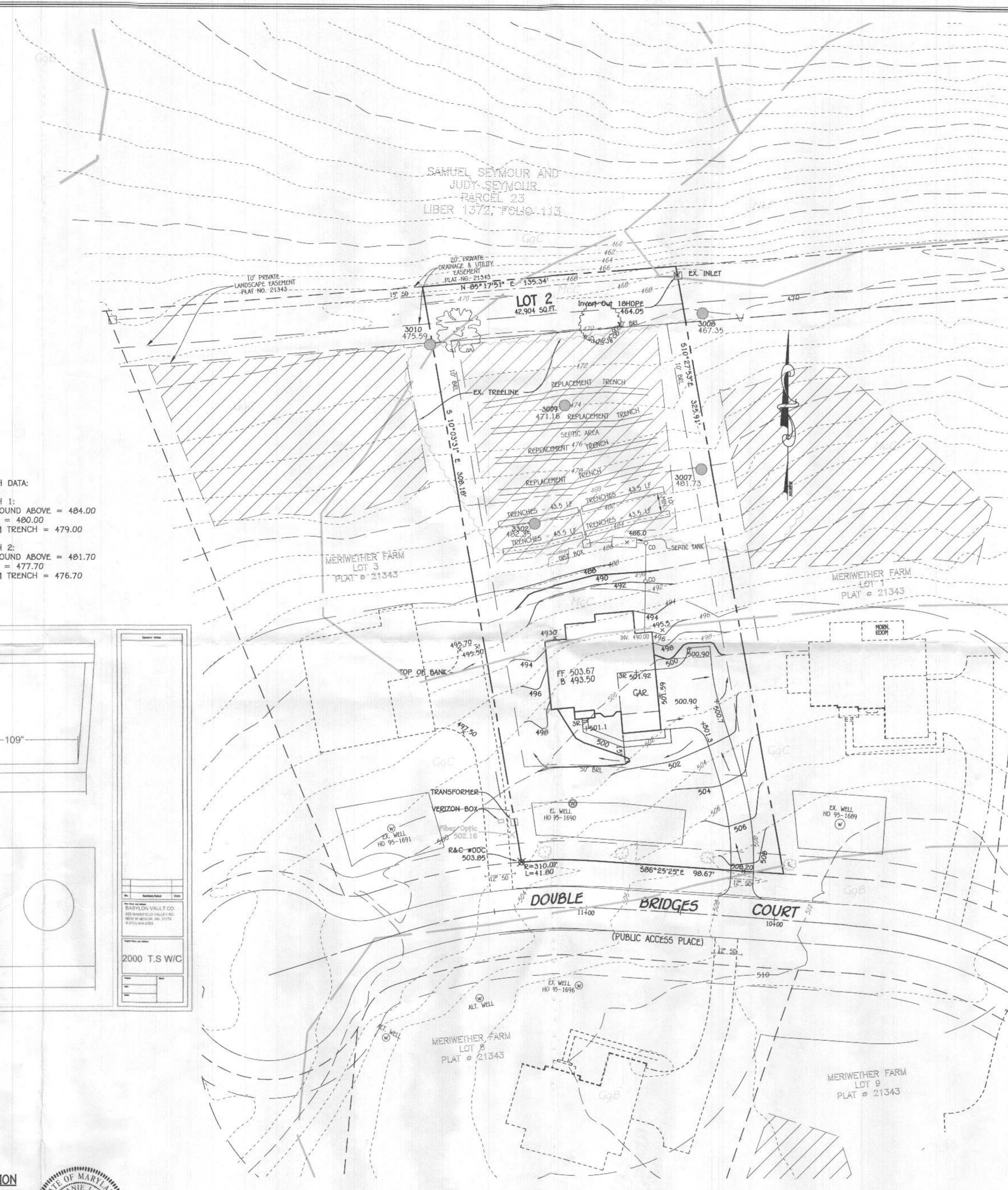


Signature: *Stephen J. Fisher* DATE: 2/5/18
Signature Of Professional Engineer DATE



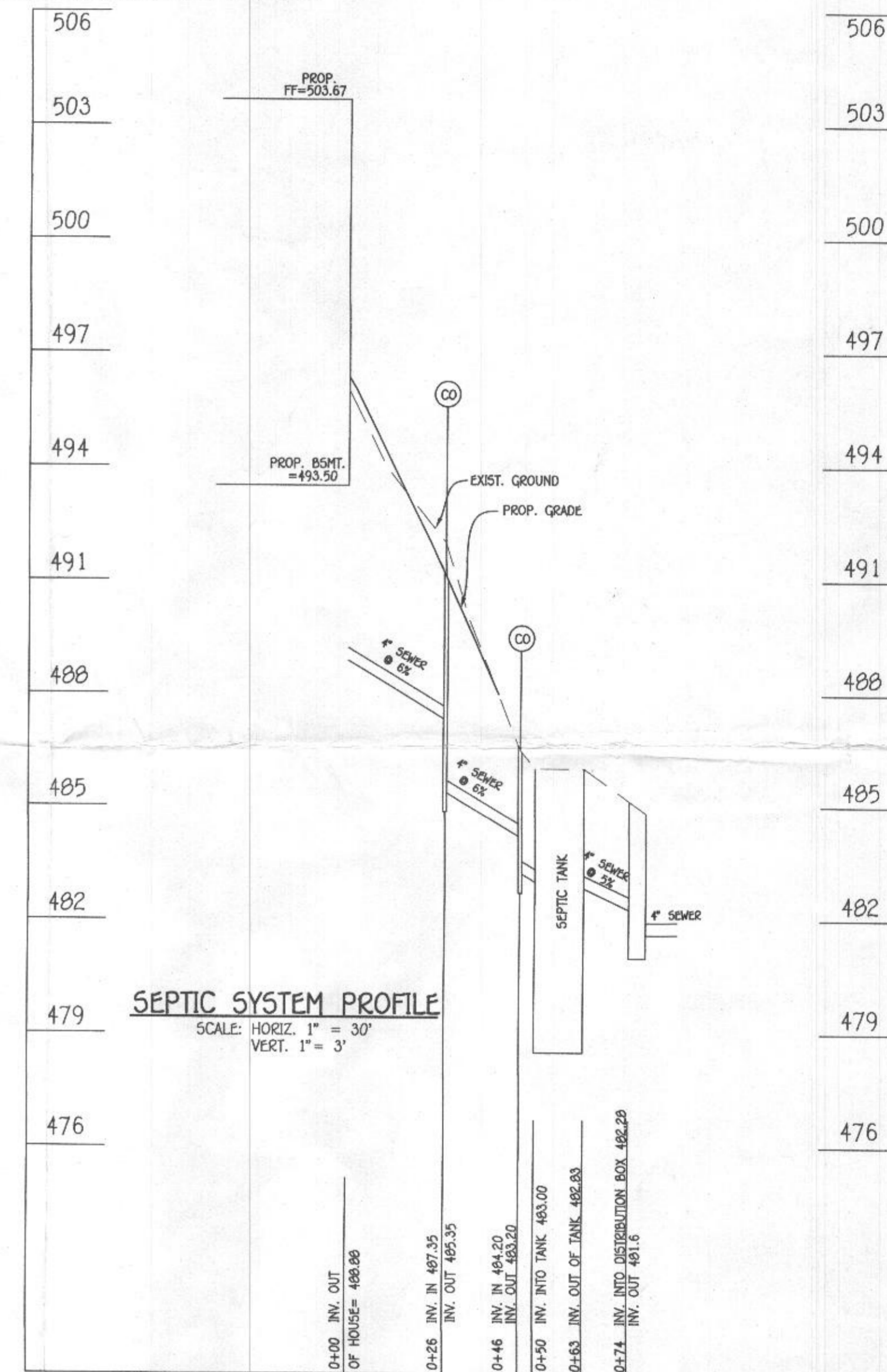
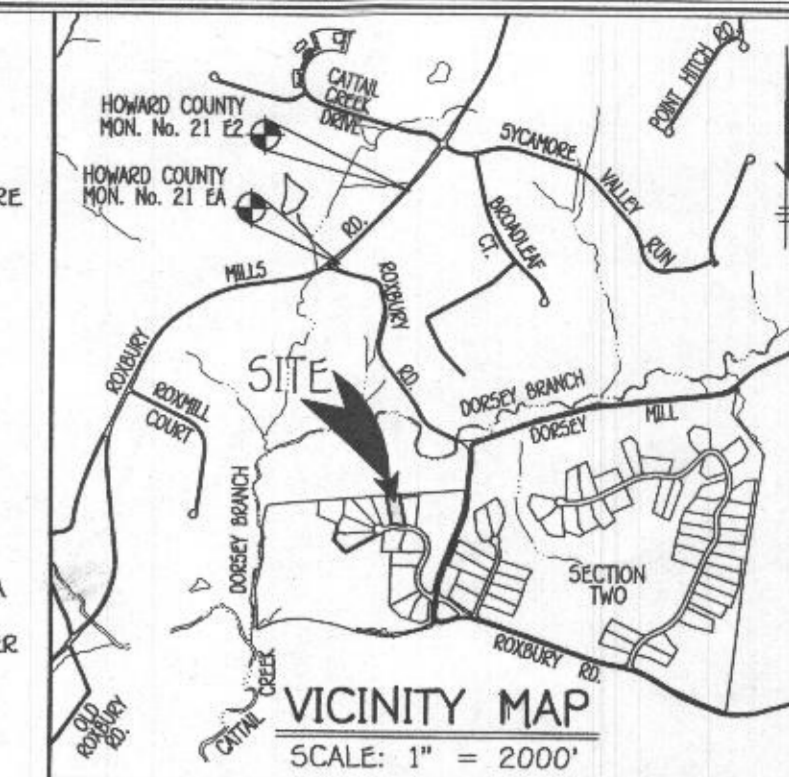
WELL CERTIFICATION:

THE EXISTING WELL, TAG NO. HO-95-1690, HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.



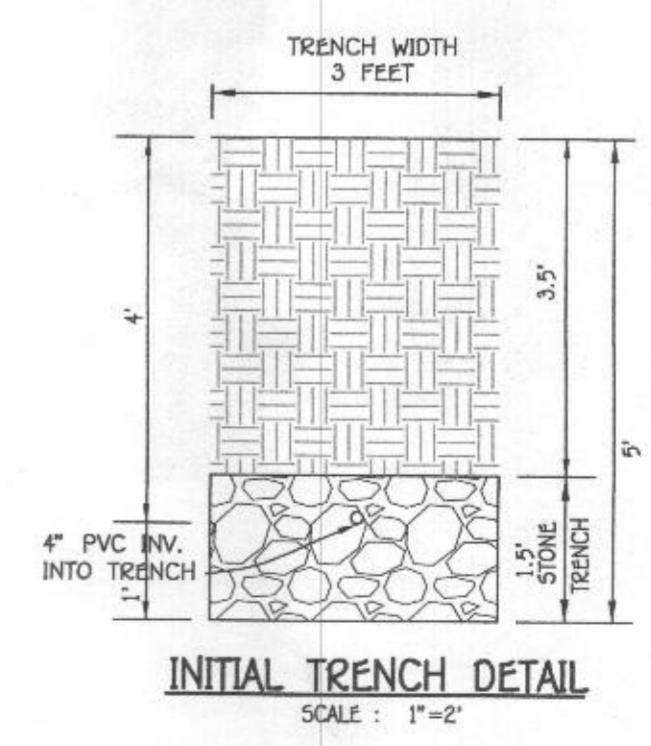
GENERAL NOTES

- SUBJECT PROPERTY ZONED: RC-DEO
- TOTAL AREA OF PROPERTY: 42,904 SQ.FT. OR 0.98 AC.
- LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
- CONTRACTOR/BUILDER TO VERIFY ELEVATION IN THE FIELD BEFORE BEGINNING ANY CONSTRUCTION.
- BOUNDARY OF LOT BASED ON PLAT #21343.
- TOPOGRAPHY SHOWN HEREON BASED ON FIELD RUN TOPOGRAPHIC SURVEY CONDUCTED BY FISHER, COLLINS & CARTER, INC. IN DECEMBER 2015. TOPOGRAPHY IS SUPPLEMENTED BY HOWARD COUNTY 200 SCALE TOPOGRAPHY.
- NO WETLANDS EXIST ON THIS LOT.
- CULVERT PIPE TO BE CONSTRUCTED IN ACCORDANCE WITH APPROVED CULVERT SIZE (12" PIPE) SHOWN ON F-08-139.
- STORMWATER MANAGEMENT IS PROVIDED UNDER F-08-139, NO ON-LOT STORMWATER MANAGEMENT IS REQUIRED.
- 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.
- ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- THE WELL (TAG #95-1690) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
- ALL 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.



SEPTIC SYSTEM PROFILE

SCALE: HORIZ. 1" = 30'
VERT. 1" = 3'



INITIAL TRENCH DETAIL

SCALE: 1" = 2'

Approved Septic System Plan
Howard County Health Department
Howard County 2/1/18
Signature Date

SEPTIC PLAN
MERIWETHER FARM
SECTION ONE LOT 2

15040 DOUBLE BRIDGES COURT
TAX MAP NO.: 21 PARCEL NO.: 24 GRID NO.: 21
ZONED: RC-DEO PLAT NO.: 21342
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: JANUARY 2018
SHEET 1 OF 1

BUILDER/DEVELOPER

PATAPSCO BUILDERS, LLC
5820 WATERLOO RD.
SUITE 140
COLUMBIA, MARYLAND 21045
(443) 367-0422