

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: 2/12/18 **ONSITE SEWAGE DISPOSAL SYSTEM** P 562435

APPROVAL DATE: 03/13/18 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 12415 ALL DAUGHTERS LANE, HIGHLAND, MD 20777

SUBDIVISION: ORCHARD ESTATES LOT: 4 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: MB Orchard Estates LLC EMAIL: MQuint@mitchellbest.com

OWNER ADDRESS: 1686 E.GUDE DRIVE, ROCKVILLE, MD 20850 PHONE: (301) 762-9511

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

PUMP MODEL: N.A. PUMP SIZE N.A. PUMP TANK CAPACITY: N.A.

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

| | | |
|-----------|---|--|
| TRENCHES: | LINEAR FEET REQUIRED: <u>156.3</u> | INLET DEPTH: <u>3</u> |
| | TRENCH WIDTH: <u>3</u> | MAXIMUM BOTTOM DEPTH: <u>6</u> |
| | MINIMUM SPACE BETWEEN TRENCHES: <u>10</u> | EFFECTIVE AREA BEGINNING DEPTH: <u>3</u> |
| LOCATION: | PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION. | |
| NOTES: | | |

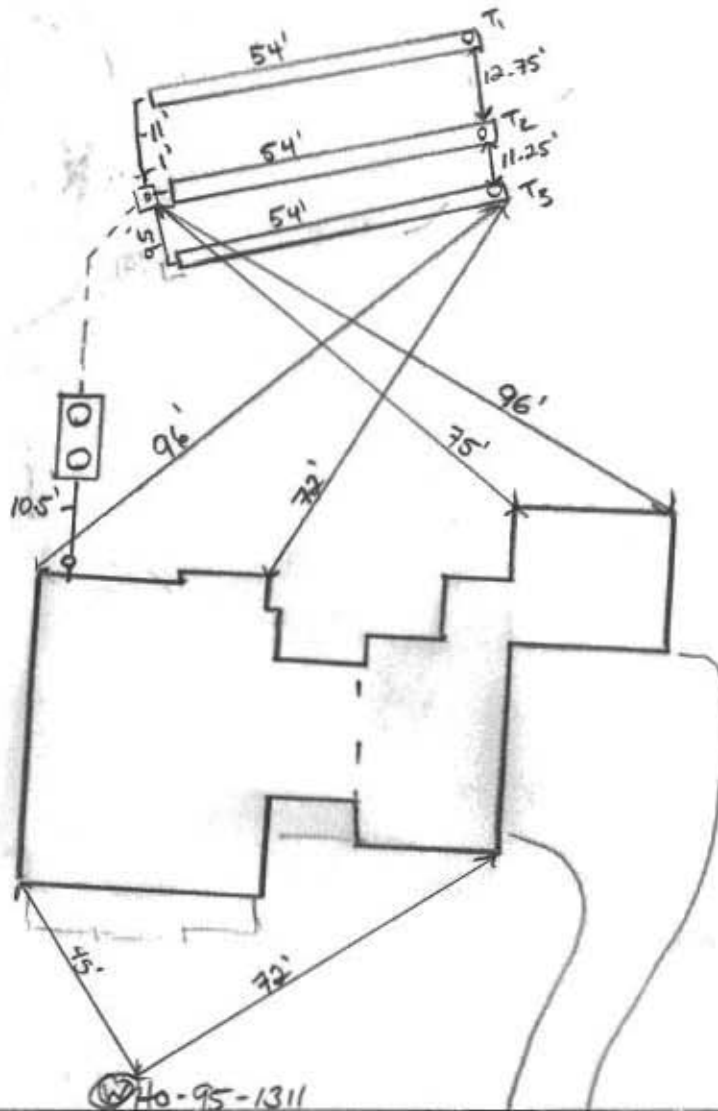
ISSUED BY: Hank Oswald ISSUE DATE: 2/12/18 EXPIRATION DATE: 2/12/19

- 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.**

NOT TO SCALE



TRENCH/DRAINFIELD DATA

| WIDTH | INLET | BOTTOM |
|-------------------------|------------------|--------|
| 3' | 3' | 6' |
| NUMBER OF TRENCHES | 3 | |
| TOTAL LENGTH | 162' | |
| ABSORPTION AREA | 486 sq ft + Slo. | |
| DISTRIBUTION BOX LEVEL | yes | |
| DISTRIBUTION BOX BAFFLE | yes | |
| DISTRIBUTION BOX PORT | yes | |

SEPTIC TANK DATA

| | |
|---------------------|------------|
| SEPTIC TANK I LEVEL | DN1 |
| MANUFACTURER | Babylon |
| CAPACITY | 2000 GAL |
| SEAM LOC | Top |
| TANK LID DEPTH | 1'-1.5' |
| BAFFLES | yes |
| BAFFLE FILTER | no |
| MANHOLE LOC | Front/back |
| 6" PORT LOC | inlet |
| WATERTIGHT TEST | no |
| SLOTTED | yes |
| DATE ON LID | 1-28-19 |

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 | |

ALL DAUGHTERS ROAD NAME LANE

PRE-CONSTRUCTION:

3/8/18 onsite for layout. shot elevations for trenches shown on approved O&S Plan. OK to install per plan. Trenches poured out in field. Told contractor to watch out for soil indicators. (Kov)

SL: Solv. welded Set 40 PVC

INSTALLATION: 03/12/18 TANK SET, SL from house installed. D Box shifted down to middle trench. @ 03/12/18 (PM) T₁ installed, commencing T₂ @ 03/13/18 T₃ completed. Effluent line installed to D Box. D Box leveled. (Kov)

FINAL INSPECTOR

DATE OF APPROVAL 03/13/18

CONFIDENTIALITY NOTICE

This message and the accompanying documents are intended only for the use of the individual or entity to which they are addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, you are hereby notified that you are strictly prohibited from reading, disseminating, distributing, or copying this communication. If you have received this email in error, please notify the sender immediately and destroy the original transmission.

--
Gutschick, Little & Weber, P.A.
3909 National Drive, Suite 250
Burtonsville, MD 20866
Office Phone: 301-421-4024
Phone (Baltimore): 410-880-1820
Phone (Northern VA): 301-989-2524
Fax: 301-421-4186
www.glwpa.com

The information transmitted is intended only for the addressee shown above.
Any design information (calculations, drawings, etc.) included in this transmission or any attachments is intended for the sole purpose agreed upon with Gutschick, Little & Weber, P.A. (GLW). If this information is to be used for any other purpose or transmitted to any other persons, prior consent must be received from GLW.



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

Twitter: HowardCoHealthDep

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

December 1, 2017

GLW
3909 National Pike
Burtonsville, MD 20866

Sent via email to:

RE:

OSDS Plan
Orchard Estates, Lot 4
12415 All Daughters Lane,
Fulton, MD

The OSDS Plan for 12415 All Daughters Lane has been reviewed with the following comments:

- 1.) Effective area beginning depth starts at 4 feet (not 3 feet) on 2nd replacement system

Please revise the plan accordingly. If you wish to redline the plan, please contact me. Should you have any questions, please don't hesitate to ask.

Respectfully,

Hank Oswald

Hank Oswald, L.E.H.S
Bureau of Environmental Health
Well & Septic Program

Oswald, Hank

From: Oswald, Hank
Sent: Friday, December 01, 2017 1:55 PM
To: mtran@glwpa.com
Subject: OSDS Plan_12415 All Daughters Lane
Attachments: OSDS_12415 All Daughters Lane_12.17.pdf

Attached, please find comments pertaining to the review of OSDS Plan for 12415 All Daughters Lane. Should you have any 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

CONFIDENTIALITY NOTICE

This message and the accompanying documents are intended only for the use of the individual or entity to which they are addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, you are hereby notified that you are strictly prohibited from reading, disseminating, distributing, or copying this communication. If you have received this email in error, please notify the sender immediately and destroy the original transmission.

Oswald, Hank

From: Kristy Pierce <kpierce@glwpa.com>
Sent: Wednesday, December 06, 2017 3:03 PM
To: Oswald, Hank
Subject: Re: OSDS Plan_12415 All Daughters Lane

Yes please, could you go ahead redline it?

Thank you!!

Kristy Pierce

On Wed, Dec 6, 2017 at 2:37 PM, Oswald, Hank <hoswald@howardcountymd.gov> wrote:

Hi Kristy:

Good afternoon. The revised OSDS Plan for 12415 All Daughters Lane still shows 2 – 78.2 feet of trench on the 2nd replacement system. Would you like me to redline the plan to show 2 – 97.7 feet of trench or would you like to revise the plan and send in new copies? Please advise.

Thanks,

Hank

From: Kristy Pierce [mailto:kpierce@glwpa.com]
Sent: Monday, December 04, 2017 10:51 AM
To: Oswald, Hank
Cc: Mike Tran
Subject: Re: OSDS Plan_12415 All Daughters Lane

Hi Hank,

We will send you a revised plan.

Thanks!

Kristy Pierce

On Fri, Dec 1, 2017 at 3:25 PM, Mike Tran <mtran@glwpa.com> wrote:

----- Forwarded message -----

From: **Oswald, Hank** <hoswald@howardcountymd.gov>

Date: Fri, Dec 1, 2017 at 1:54 PM

Subject: OSDS Plan_12415 All Daughters Lane

To: "mtran@glwpa.com" <mtran@glwpa.com>

Attached, please find comments pertaining to the review of OSDS Plan for 12415 All Daughters Lane. Should you have any 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)

ALL DAUGHTERS LANE

NON-BUILDABLE PRESERVATION PARCEL 'B'

NON-BUILDABLE PRESERVATION PARCEL 'B'

PRIVATE 35' USE-IN-COMMON ACCESS & DRAINAGE EASEMENT FOR LOTS 4, 5, & PRESERVATION PARCEL A

20' PUBLIC DRAINAGE AND UTILITY EASEMENT

R=50.00'
L=12.04'

EX. WELL TAG # HO-95-1311
30' WELL SETBACK

SEE INSET

PRIVATE SEPTIC EASEMENT AREA PER PLAT 19876

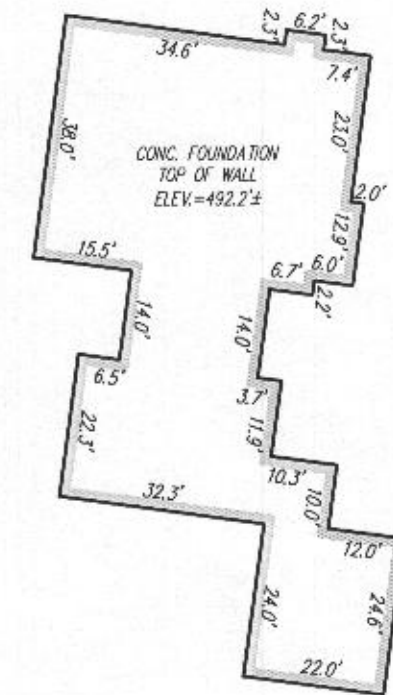
LOT 4
49,746 #
OR
1.1420 AC.

BUILDABLE PRESERVATION PARCEL 'A'

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 24027C0140D, EFFECTIVE DATE NOVEMBER 6, 2013.

BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER 19876. SETBACK DISTANCES SHOWN HEREON ARE TO THE OUTERMOST FACE OF THE FOUNDATION WALLS AND HAVE AN ACCURACY OF ± 0.1' FOOT.



INSET
1" = 30'

Wall Check
OK
RAE
2/12/18

1" = 40'

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY TO:
"MB ORCHARD ESTATES, LLC"

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

[Signature] 2/8/2018
For Gutschick, Little and Weber, P.A.

Thomas C. O'Connor, Jr.,
Professional Land Surveyor, No. 10954 (EXP. DATE: 07/03/2018)

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

WALLCHECK
(SPECIAL PURPOSE SURVEY)

ORCHARD ESTATES

LOT 4

12415 ALL DAUGHTERS LANE

HOWARD COUNTY, MD
DATE OF LATEST FIELD WORK: 2/8/2018
G.L.W. FILE No. 15112
REFERENCE: PLAT BOOK: N/A
PLAT No. 19876
SCALE: 1" = 40'

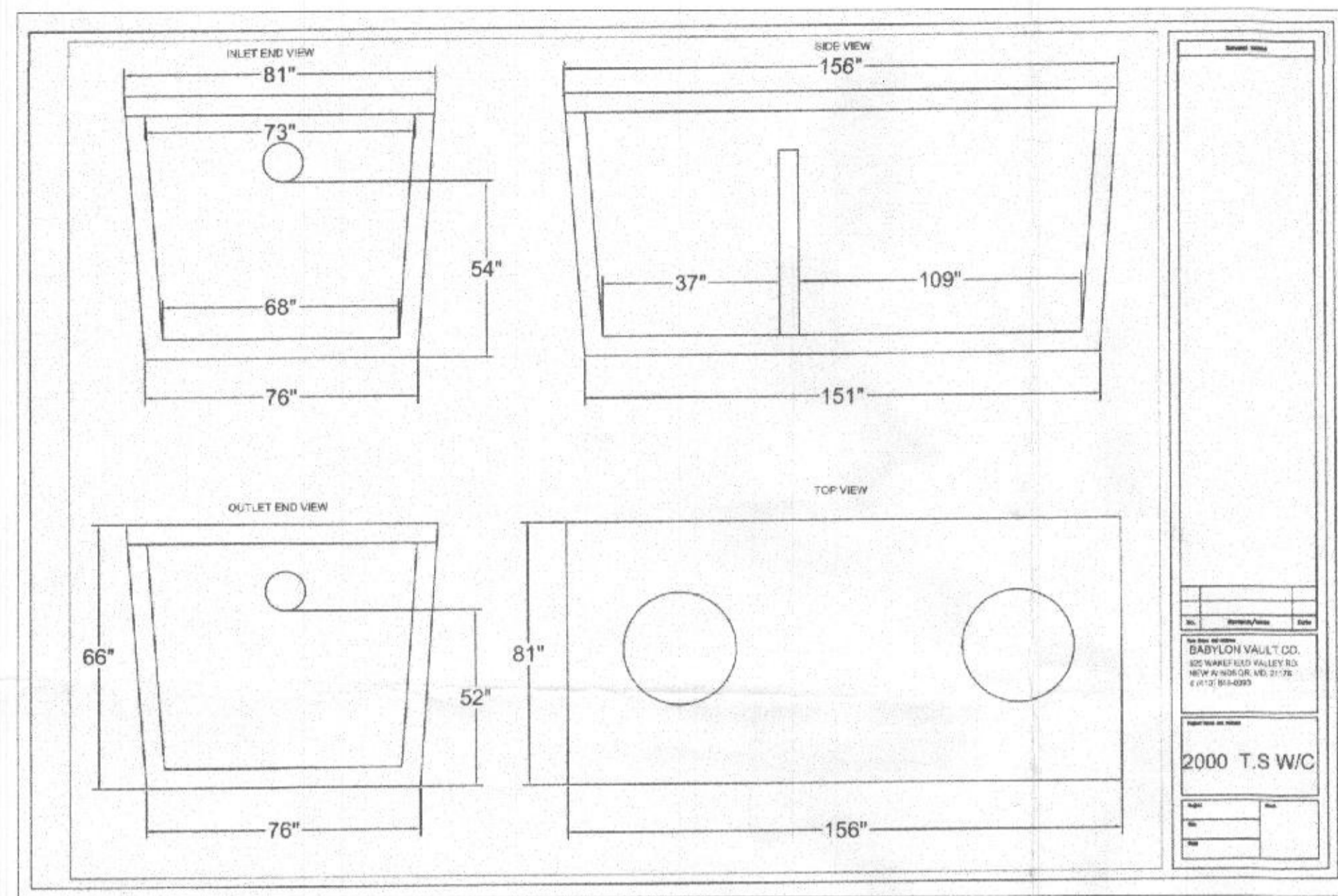
GLWGUTSCHICK LITTLE & WEBER, P.A.

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3908 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20886
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-988-2524 FAX: 301-421-4186

DES.
DRN. MAB
CHK.

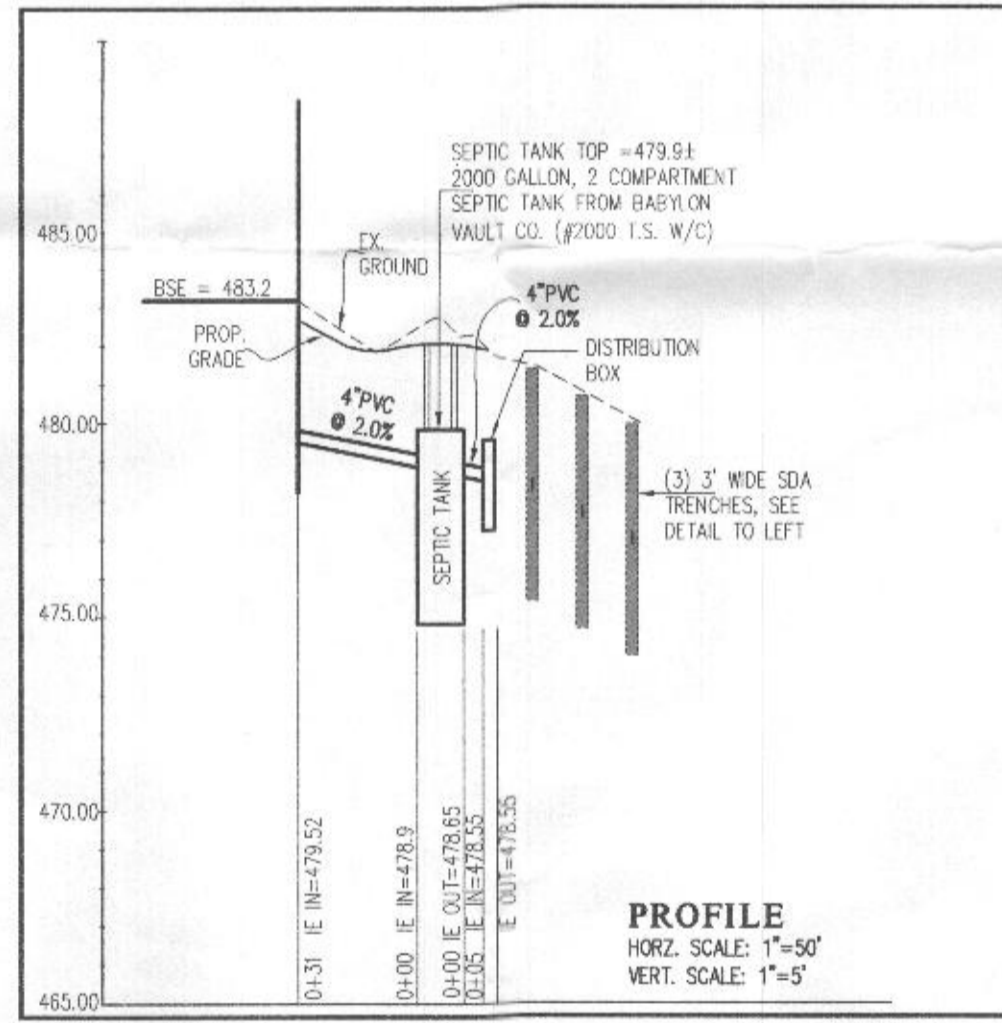
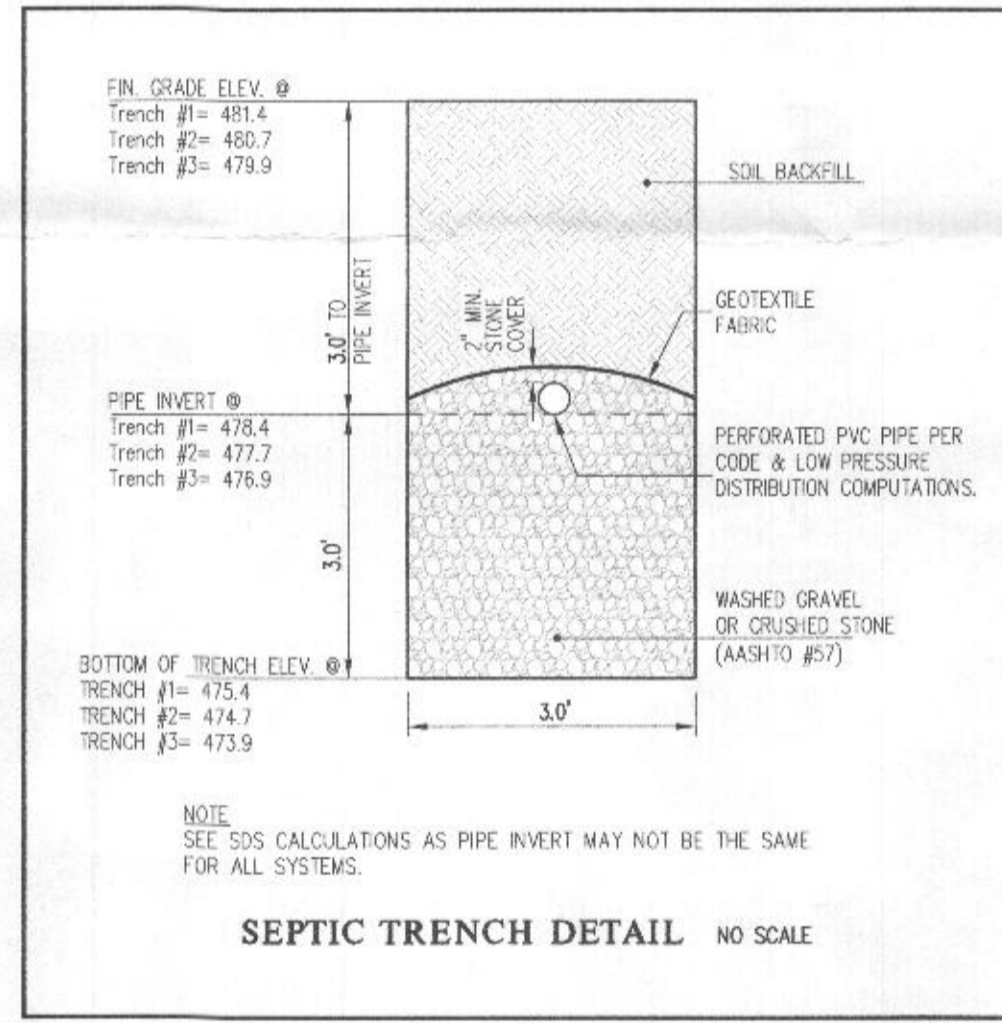
PREPARED FOR:
MB ORCHARD ESTATES, LLC
1686 E. GUDE DRIVE
ROCKVILLE, MARYLAND
20850

S:\Survey Drawings\WALLCHECK\ORCHARD ESTATES-15112\WCK\15112WCK-4.dwg



SDA TRENCH SIZE CALCULATIONS

| ORCHARD ESTATES | Lot-4 | | |
|---|----------------|------------------------|------------------------|
| | Initial System | Replacem't System No.1 | Replacem't System No.2 |
| System Input Information | | | |
| Application Rate | 0.8 | 0.8 | 0.8 |
| Effective area beginning depth | 3.0 | 3.0 | 4.0 |
| Effective area maximum bottom depth | 6.0 | 6.0 | 6.0 |
| Number of Bedrooms | 5 | 5 | 5 |
| Design flow at 150 gal./day/bedroom | 750 | 750 | 750 |
| Absorption Trench Calculations | | | |
| Drainfield area required (Design flow/application rate) | 938 s.f. | 938 s.f. | 938 s.f. |
| Effluent pipe depth to invert (cannot exceed 4', if < 2', then field run top to at 1-ft interval is required) | 3.0 | 3.0 | 4.0 |
| Effective sidewall depth "D" = depth between the effective beginning depth or pipe depth (which ever is deeper) and maximum trench bottom. | 3.0 | 3.0 | 2.0 |
| Trench Width "W" (2 or 3 feet) | 3.0 | 3.0 | 3.0 |
| Sidewall Reduction Percent = (W+2)/(W+1+2D) | 50.0% | 50.0% | 62.5% |
| Linear feet of trench required = (drainfield area x sidewall reduction)/W | 156.3 | 156.3 | 195.3 |
| Trench Layout Information | | | |
| Approximate length available on contour & not exceeding 100-ft | 60 | 100 | 100 |
| Number of trenches to use | 3 | 2 | 2 |
| Min. length (linear feet) | 52.1 | 78.2 | 97.7 |
| Total (linear feet) | 156.3 | 156.4 | 195.4 |
| Minimum Trench Spacing: 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'. | 10.0 | 10.0 | 10.0 |
| Approx. width of absorption Area | 29 ft. | | |
| Approx. drainfield Area (sq. feet) | 1,511 | | |



LEGEND

- 600 EXISTING CONTOUR
- 600 PROPOSED CONTOUR
- FTE FIRST FLOOR ELEVATION
- TOW TOP OF FOUNDATION WALL
- BSE BASEMENT SLAB ELEVATION
- PRIVATE SEWAGE DISPOSAL AREA
- INITIAL SYSTEM 3' WIDE TRENCH
- 1st REPLACEMENT SYSTEM TRENCH
- 2nd REPLACEMENT SYSTEM TRENCH
- TP # PERCOLATION TEST HOLES (PASSED)
- TP # PERCOLATION TEST HOLES (FAILED)
- EXISTING WELL LOCATION
- ALTERNATE WELL LOCATION

BENCHMARKS

| | | | |
|------|---------------|------------------|--------------------|
| 410C | ELEV. 468.374 | N = 543,290.6332 | E = 1,331,697.8591 |
| 410B | ELEV. 475.304 | N = 544,580.3747 | E = 1,330,741.3820 |

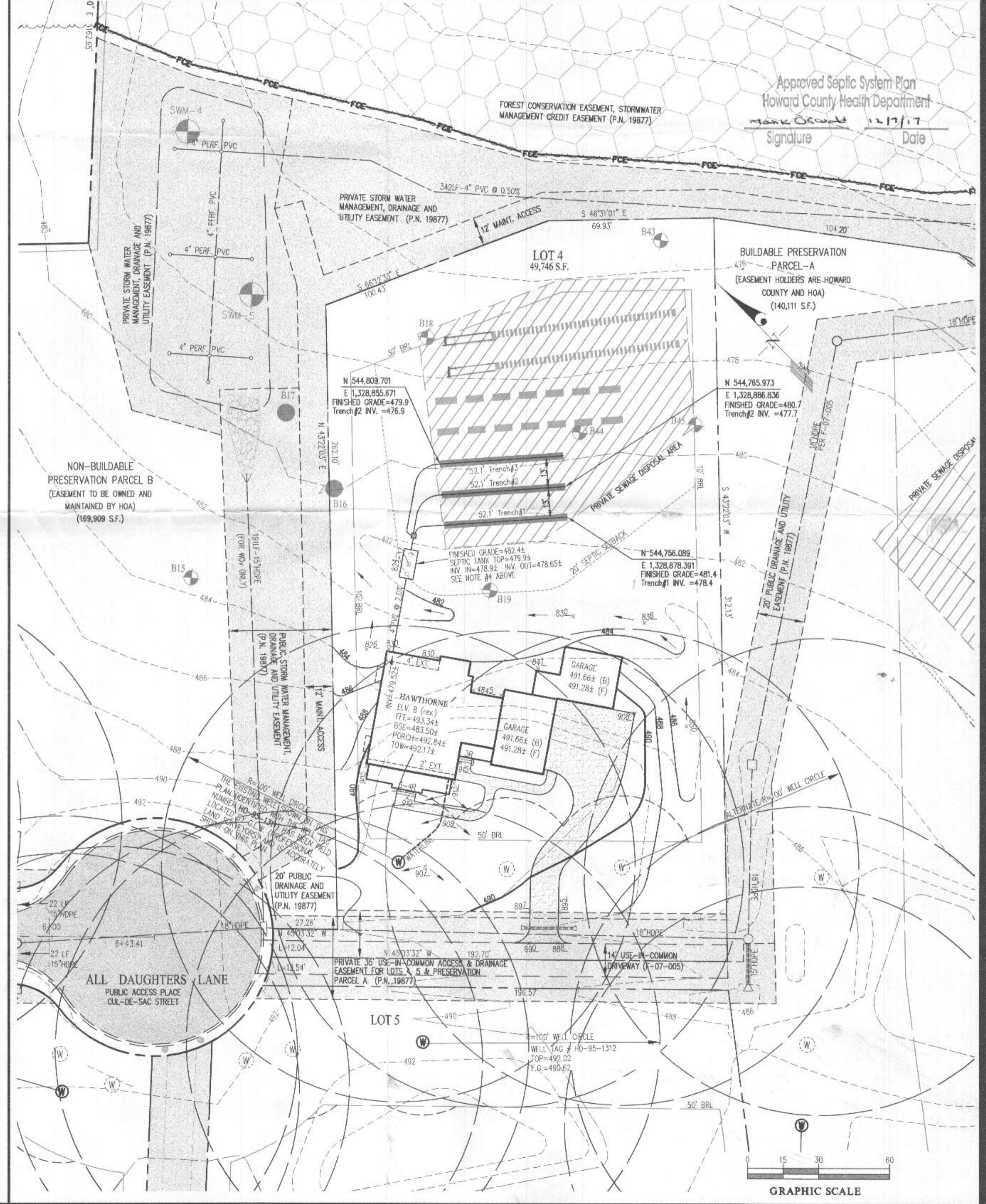
NOTES:

- 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 #95-1311) 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.

VICINITY MAP

SCALE: 1" = 2,000'

ADC MAP: 31
GRID: C7



| | | | | | | | | | | |
|--|---|----------|----------|---|----------|----|-------|--|---|--|
| GLWGUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3609 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186 | DES. MBT | DRN. KLP | CHK. CKG | DATE | REVISION | BY | APPR. | | | |
| | PREPARED FOR: MB ORCHARD ESTATES, LLC 1686 E. GUDE DRIVE ROCKVILLE, MARYLAND 20850 PH: 301-762-9511 ATTN: MARC QUINT | | | | | | | | | |
| 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. JZ295. EXPIRATION DATE: MAY 26, 2018 | | | | ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN ORCHARD ESTATES LOT 4 (12415 All Daughters Lane) PLAT No. 19876-19877 ELECTION DISTRICT No. 5 HOWARD COUNTY, MARYLAND | | | | SCALE 1"=30' DATE DEC. 2017 | ZONING RR-DEO TAX MAP - GRID 40 - 18 | G. L. W. FILE No. 15112 SHEET 1 OF 1 |