

**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: 5-2-24 **ONSITE SEWAGE DISPOSAL SYSTEM** P 586602

APPROVAL DATE: 8/6/2024 **PERMIT: BAT New Construction** A \_\_\_\_\_

PROPERTY ADDRESS: 540 Watersville Road

SUBDIVISION: Hay Meadow Overlook LOT: 1 TAX ID: \_\_\_\_\_

CONTRACTOR: South Carroll Backhoe EMAIL: schockhoe@comcast.net

CONTRACTOR ADDRESS: 4111 Selma Bottom Rd, Westminster, MD PHONE: 410-596-3618

CONTRACTOR CERTIFIED FOR BAT INSTALLATION:  MDE  MANUFACTURER: Norweco (Back river)

PROPERTY OWNER: Phillip Dorsey EMAIL: \_\_\_\_\_

OWNER ADDRESS: 13090 Old Frederick Road, Sykesville, MD 21784 PHONE: \_\_\_\_\_

BAT UNIT MODEL: Norweco TNTLP 500 PUMP SIZE: Goulds we03 PUMP TANK CAPACITY: 1000 1500 GAL

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: 5.31.24 DATE RECORDED: 6.3.24

DISTRIBUTION SYSTEM:  GRAVITY  PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 0.8

|           |   |  |
|-----------|---|--|
| TRENCHES: | LINEAR FEET REQUIRED: <u>197</u>  | INLET DEPTH: <u>See plan</u>             |
|           | TRENCH WIDTH: <u>3</u>  | MAXIMUM BOTTOM DEPTH: <u>6</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 BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.</b> |  |
| NOTES:    | Install 4 trenches of 50' in length   |  |

ISSUED BY: Z. Silvest ISSUE DATE: 6/11/2024 EXPIRATION DATE: 5-2-25

- 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 SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRAIDENT 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 24002545
- NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.
- 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 separate  
Sheet  
For As-built

8/21/2024 - High water  
alarm successful, audible &  
visual good. Pump successfully  
charges laterals, 2' @ 1, & 2,  
24' @ 3 & 4. SP/MB  
Needs start up

ROAD NAME

**TRENCH/DRAINFIELD DATA**

WIDTH 3 INLET 1.5-3.3' BOTTOM 6'  
NUMBER OF TRENCHES 4  
TOTAL LENGTH 201  
ABSORPTION AREA 603  
DISTRIBUTION BOX LEVEL ---  
DISTRIBUTION BOX BAFFLE ---  
DISTRIBUTION BOX PORT ---

**SEPTIC TANK DATA**

SEPTIC TANK I LEVEL yes  
MANUFACTURER Norweco  
CAPACITY 600 GAL  
SEAM LOC Top  
TANK LID DEPTH 1.5-1'  
BAFFLES ---  
BAFFLE FILTER ---  
MANHOLE LOC Front, middle, + back  
6" PORT LOC ---  
WATERTIGHT TEST ---  
SLOTTED ---  
DATE ON LID 2/6/2024

**PUMP/SEPTIC TANK LEVEL** yes

MANUFACTURER Bethlam  
CAPACITY 1500 GAL  
SEAM LOC Top  
TANK LID DEPTH 1.5-1'  
BAFFLES ---  
BAFFLE FILTER ---  
MANHOLE LOC Front & back  
6" PORT LOC ---  
WATERTIGHT TEST ---  
SLOTTED ---  
DATE ON LID 3/6/2024

SEPTIC CONTRACTOR ONSITE INSTALLING SYTEM: Andrew Schuster  
SEPTIC CONTRACTOR ONSITE LICENSED WITH THE STATE OF MD: YES/NO

**PRE-CONSTRUCTION NOTES:**

6/11/2024 - Pump tank sized incorrectly, OSDS plan to be revised. SP

6/17/2024 - Installer onsite for layout. Contractor started construction prior to approval, 20' of front line installed. SP & tanks sized per plan trench lengths @ 50', diff in elevation 2"-1". OK to

Continue install SP/MB  
**INSTALLATION NOTES:**

6/17/2024 - 2 c/o installed, adequate fill @ front line. OK to backfill SP/MB 6/18/2024 - Installer onsite for inspection additional c/o installed. SCH40 PVC used before tank. Tanks set where min = 3' cover on tank. OK to backfill SP

6/20/2024 - Installer not onsite, no work done. SP/MB 6/24/24 Trench 3 inlet @ 2', hole spacing @ 7', lateral @ 46', trench length @ 50'. Trench 4, inlet @ Trench 4, inlet @ 2', hole spacing @ 7', lateral @ 46', trench length @ 51'. 14' @ of tank, second rest of 54' 3" SCH40 40 240 PSI MB/SP

6/25/24 Trench 2 inlet at 2', hole spacing at 5' Lateral @ 46' and trench length @ 50'. Trench 1 inlet at 2', hole spacing at 5', lateral @ 46' and trench length @ 50'. Distance between each trench is 14'. OK to backfill. MB/SP

FINAL INSPECTOR

S. Price

DATE OF APPROVAL

8/6/2024

**CONTROL PANEL DATA**

CONTROL PANEL HEIGHT 418"  
(MIN 30")  
INSPECTION DATE 8/21/2024  
INSPECTION: PASS FAIL (CIRCLE ONE)



## Oswald Jr, Woodin

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**From:** Williams, Jeffrey  
**Sent:** Tuesday, February 13, 2024 12:08 PM  
**To:** Rob Vogel; Oswald Jr, Woodin; Dimarco, Paul  
**Cc:** Jeremiah Reynolds  
**Subject:** RE: Hay Meadow Lot 1

Hi Rob. I'm not necessarily ok with no liner as-is because we are less than 100' to the neighbor's well with this device getting runoff from the driveway and front yard, which is downgrade of the main driveway entrance to the road. I was just wondering if unlined eliminated the outfall. If it does, maybe you can try to work on some placement possibilities. We would like to see the device over 100' from the neighbor wellbox. It looks like there are locations just outside of the 100' arc that would still be 25' from the SDA? I know you have grading to contend with. If that is not possible, you could propose something as close to 100' as possible for our review.

Also, if you can get it over 100' by flipflopping with the drywells, we'd be open to that since the drywells are just getting roof runoff and the device is getting surface runoff that might have road salt. In that case, we'd still look for the drywells to be as far away from the well as possible.

**From:** Rob Vogel <Rob.Vogel@timmons.com>  
**Sent:** Monday, February 12, 2024 9:24 AM  
**To:** Williams, Jeffrey <jewilliams@howardcountymd.gov>; Oswald Jr, Woodin <hoswald@howardcountymd.gov>; Dimarco, Paul <pdimarco@howardcountymd.gov>  
**Cc:** Jeremiah Reynolds <Jeremiah.Reynolds@timmons.com>  
**Subject:** RE: Hay Meadow Lot 1

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Paul

The closest perc test 14E infiltrated at 2 minutes for 1". That is a very good infiltration rate. Would you be OK without a low drain since it is infiltrating? We would like to eliminate the drain.

Hi Jeff

There is a liner but that is not dictating the outfall. The County requires a low flow drain so that water does not accumulate in the bottom. Since it infiltrates well, I am asking DED if we can eliminate the low flow drain since you are OK with eliminating the liner.

Thanks, Rob

**Robert H. Vogel P.E., M.ASCE**

***Principal***

**VOGEL ENGINEERING + TIMMONS GROUP** | [www.timmons.com](http://www.timmons.com)  
3300 N. Ridge Road, Suite 110 | Ellicott City, MD 21043  
Office: 410.461.7666 | Fax: 410.461.8961  
<https://www.linkedin.com/company/timmons-group>  
*Your Vision Achieved Through Ours*

To send me files greater than 20MB [click here](#)

**From:** Williams, Jeffrey <[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)>

**Sent:** Tuesday, February 6, 2024 3:49 PM

**To:** Rob Vogel <[Rob.Vogel@timmons.com](mailto:Rob.Vogel@timmons.com)>; Oswald Jr, Woodin <[hoswald@howardcountymd.gov](mailto:hoswald@howardcountymd.gov)>; Dimarco, Paul <[pdimarco@howardcountymd.gov](mailto:pdimarco@howardcountymd.gov)>

**Cc:** Jeremiah Reynolds <[Jeremiah.Reynolds@timmons.com](mailto:Jeremiah.Reynolds@timmons.com)>

**Subject:** RE: Hay Meadow Lot 1

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CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

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Hi Rob. This outfall is really close to the SDA. Is the MBR lined due to proximity to the neighboring well? IF it weren't lined, would it eliminate the outfall? IF it has to be there, We'd look to shave off the bottom corner of the SDA at the very closest point to get some separation.

Jeff

**From:** Rob Vogel <[Rob.Vogel@timmons.com](mailto:Rob.Vogel@timmons.com)>

**Sent:** Tuesday, February 6, 2024 12:01 PM

**To:** Oswald Jr, Woodin <[hoswald@howardcountymd.gov](mailto:hoswald@howardcountymd.gov)>; Williams, Jeffrey <[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)>; Dimarco, Paul <[pdimarco@howardcountymd.gov](mailto:pdimarco@howardcountymd.gov)>

**Cc:** Jeremiah Reynolds <[Jeremiah.Reynolds@timmons.com](mailto:Jeremiah.Reynolds@timmons.com)>

**Subject:** Hay Meadow Lot 1

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hello Gents

Paul DiMarco at DED is concerned that the MBR outfall may impact a future MBR which may be constructed on adjacent Lot 3 in the future. We are proising to locate the outfall as far downhill as possible so that any potential discharge from the MBR on Lot1 does not flow to the potential MBR to be located on Lot 3.

Paul. Could you please confirm that the outfall as shown on the attached redline satisfies your concerns?  
Hank and Jeff. Please confirm that the 4" drain and outfall as shown is acceptable.

Thanks, Rob

**Robert H. Vogel P.E., M.ASCE**

***Principal***

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<https://www.linkedin.com/company/timmons-group>

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## Williams, Jeffrey

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**From:** Williams, Jeffrey  
**Sent:** Wednesday, June 12, 2024 11:28 AM  
**To:** Rob Vogel (Rob.Vogel@timmons.com); Jeremiah Reynolds  
**Cc:** mgsrour@gmail.com; Silvast, Zackary; Wolf, Kevin  
**Subject:** 540 Watersville Rd

Hello. I was made aware of an issue with this septic permit and design plan. I am not sure how much of this was relayed by South Carroll to Vogel, but here is the issue as I see it in the design plan:

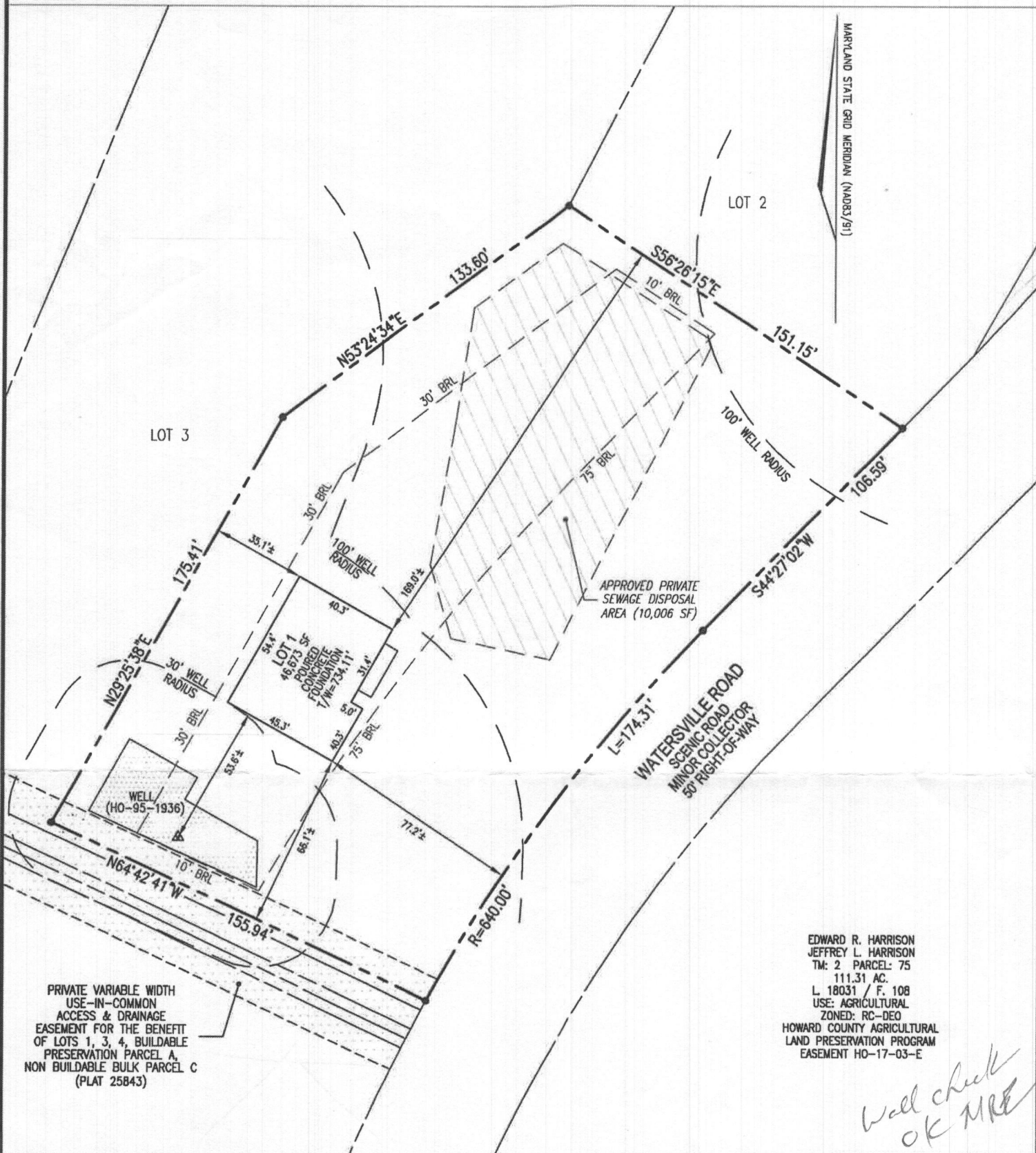
- The pump floats are shown in a way that is not possible to install: The pump off float is shown 0.3' from the tank bottom. The lowest a pump off float can be is above the water inlet of the pump and the pump must be resting on a block 6" above the tank bottom. If all the floats are moved up to account for the off float moving up, then there is less than 1 day emergency storage in the pump tank. It appears that the design must show a larger tank to provide a proper location for the off float and then have room for emergency storage on the top end.
- The low pressure design shows 60 gallons per minute flow rate to pressurize the system, but the pump chart plots 30 gallons per minute. This change may still allow for a we03m pump as the head will likely change with the float adjustments. The revised plan must show the new pump curve and appropriate pump selection.

A revised plan must be submitted to our office and we will review it as quickly as possible to get the installer back on track to install the system. Please let me know if there are any questions. Thanks

Jeff Williams  
Deputy Director  
Bureau of Environmental Health  
Howard County Health Dept.  
8930 Stanford Blvd. Columbia, MD 21045  
410-313-4261  
[www.hchealth.org](http://www.hchealth.org)

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THIS WALL CHECK DRAWING CONTAINS A HORIZONTAL TOLERANCE IN ACCURACY OF 0.1' AND A VERTICAL TOLERANCE IN ACCURACY OF 0.2'



EDWARD R. HARRISON  
JEFFREY L. HARRISON  
TM: 2 PARCEL: 75  
111.31 AC.  
L 18031 / F. 108  
USE: AGRICULTURAL  
ZONED: RC-DEO  
HOWARD COUNTY AGRICULTURAL  
LAND PRESERVATION PROGRAM  
EASEMENT HO-17-03-E

*Wall check  
OK MRE*

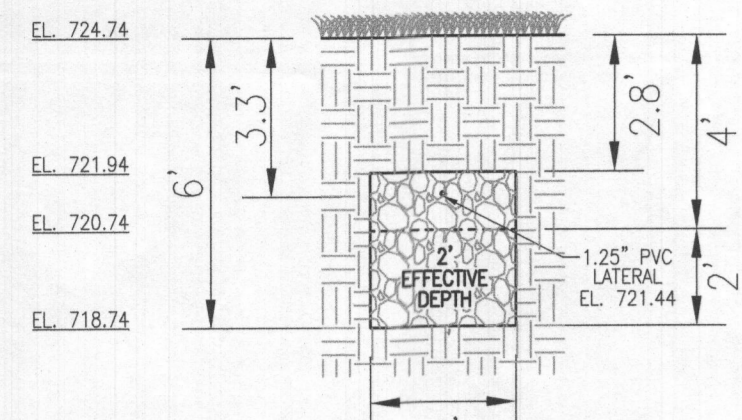
I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THAT THE IMPROVEMENTS ARE LOCATED AS SHOWN AND THAT THERE ARE NO ENCROACHMENTS EXCEPT AS SHOWN; THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND.

*Thomas M. Hoffman Jr.*  
THOMAS M. HOFFMAN JR.  
PROPERTY LINE SURVEYOR  
LICENSE NO. 267  
EXP. DATE: JULY 28, 2024

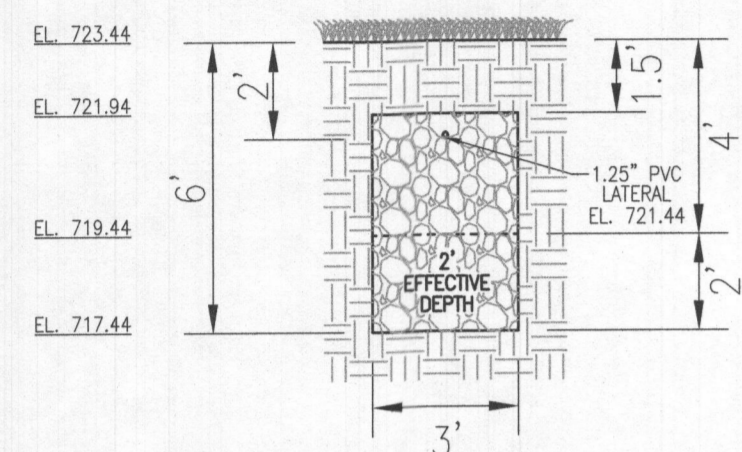
4/24/24  
DATE



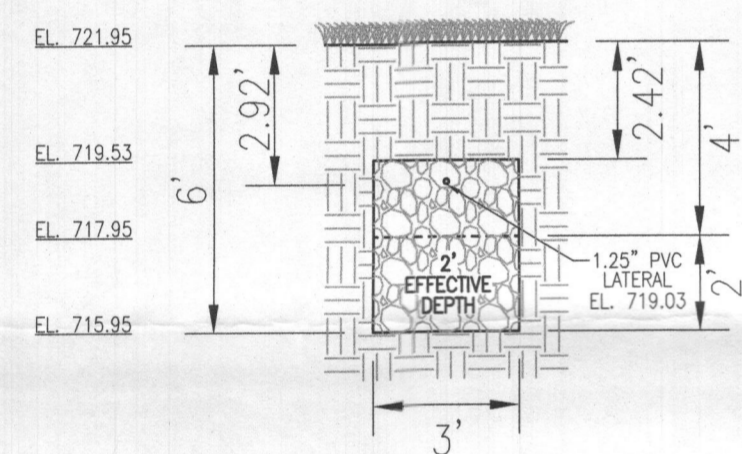
|                            |                      |   |  |
|----------------------------|----------------------|---|--|
| SCALE<br>1" = 50'          | DATE<br>4/23/2024    | <b>VOGEL ENGINEERING</b><br>+<br><b>TIMMONS GROUP</b><br>3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043<br>P: 410.461.7666 F: 410.461.8961 www.timmons.com | WALL CHECK DRAWING<br>540 WATERSVILLE ROAD<br>LOT 1<br><b>HAY MEADOW OVERLOOK</b><br>PLAT NO. 25843<br>FOURTH ELECTION DISTRICT<br>HOWARD COUNTY, MARYLAND |
| DRAWN BY<br>J.M.M.         | CHECKED BY<br>T.M.H. |   |  |
| PLAT NUMBER<br>25842-25844 | JOB NUMBER<br>12-10  |   |  |



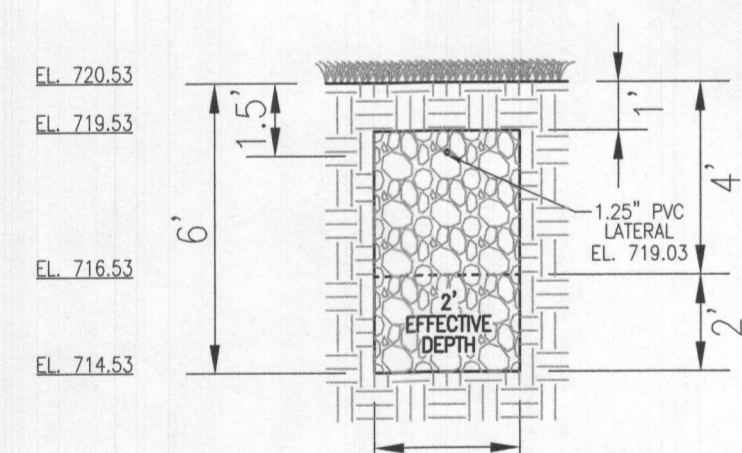
**INITIAL SYSTEM TRENCH DETAIL (TRENCH #1)**  
SCALE: 1"=4'



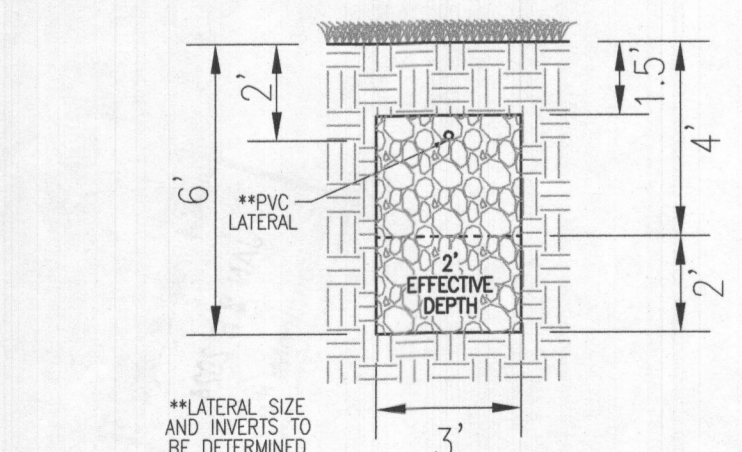
**INITIAL SYSTEM TRENCH DETAIL (TRENCH #2)**  
SCALE: 1"=4'



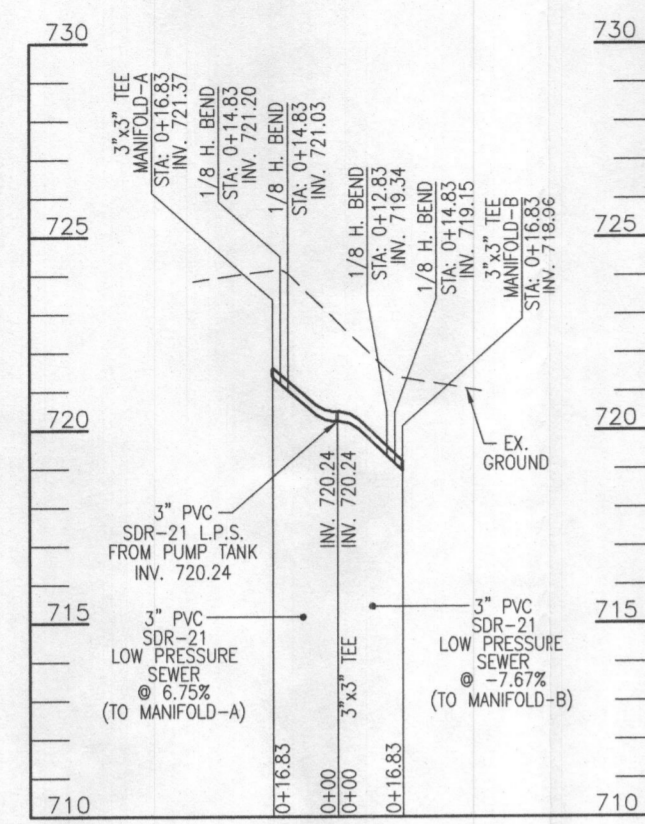
**INITIAL SYSTEM TRENCH DETAIL (TRENCH #3)**  
SCALE: 1"=4'



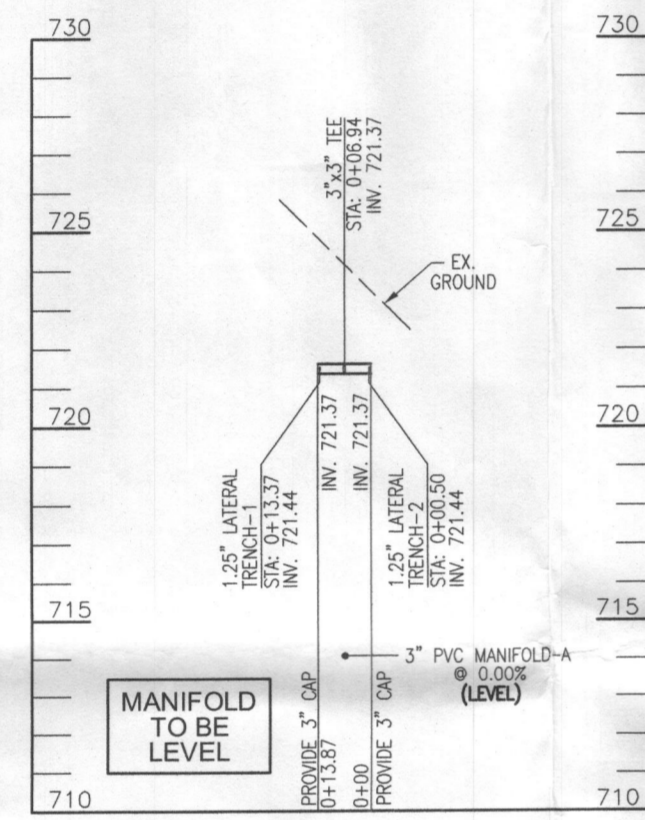
**INITIAL SYSTEM TRENCH DETAIL (TRENCH #4)**  
SCALE: 1"=4'



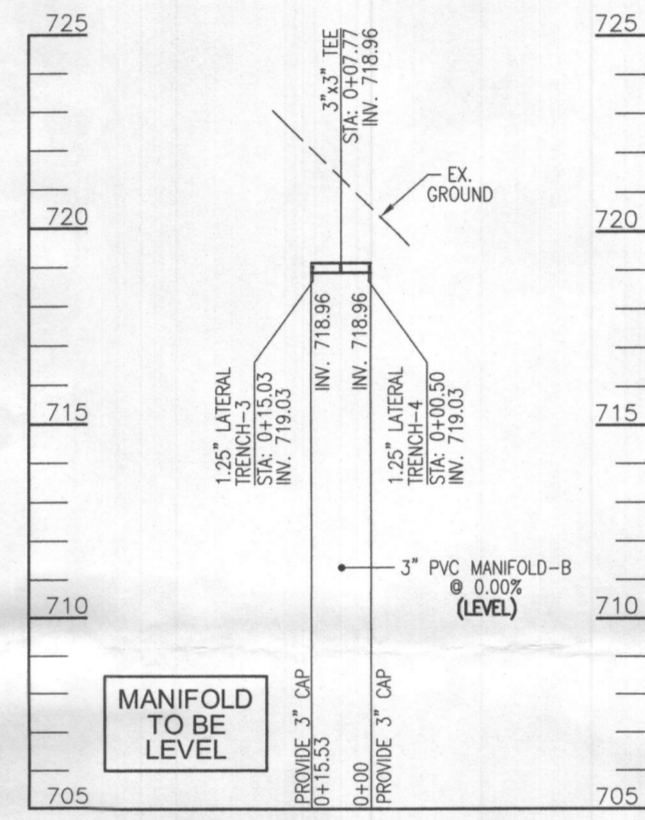
**1ST & 2ND REPLACEMENT TRENCH DETAIL**  
SCALE: 1"=4'



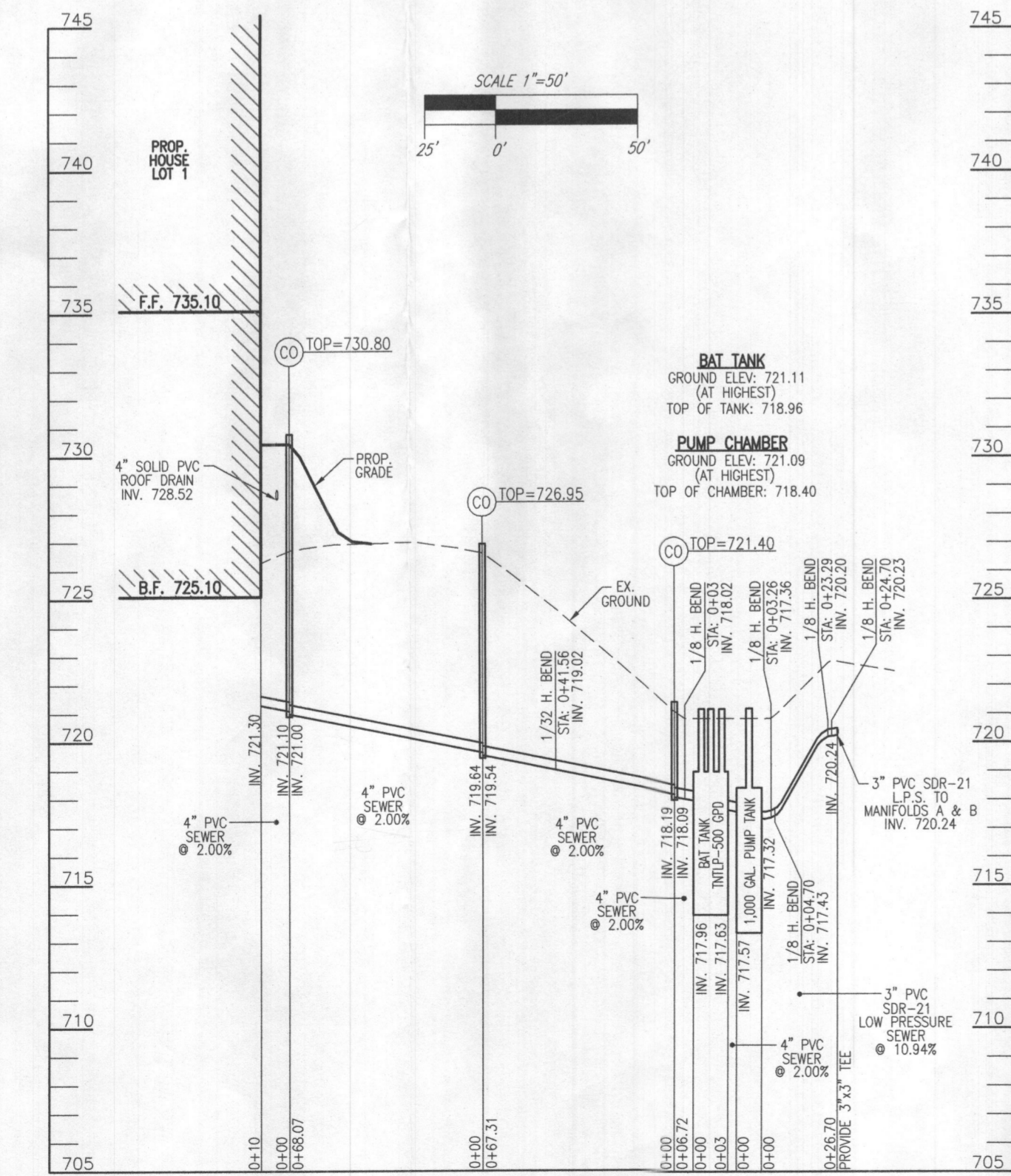
**SEPTIC SYSTEM PROFILE**  
SCALE: HORIZONTAL - 1"=50'  
VERTICAL - 1"=5'



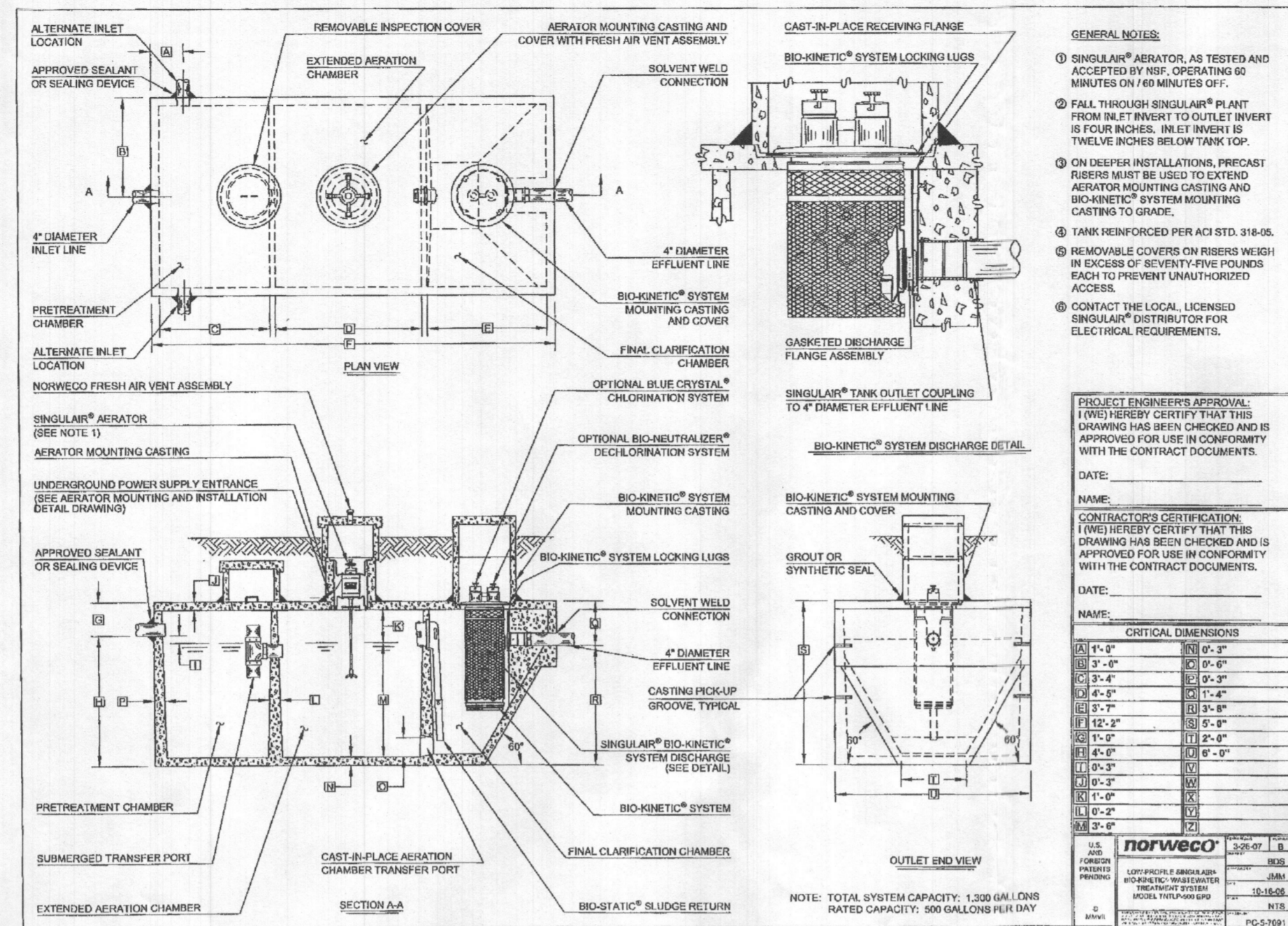
**MANIFOLD-A PROFILE**  
SCALE: HORIZONTAL - 1"=50'  
VERTICAL - 1"=5'



**MANIFOLD-B PROFILE**  
SCALE: HORIZONTAL - 1"=50'  
VERTICAL - 1"=5'

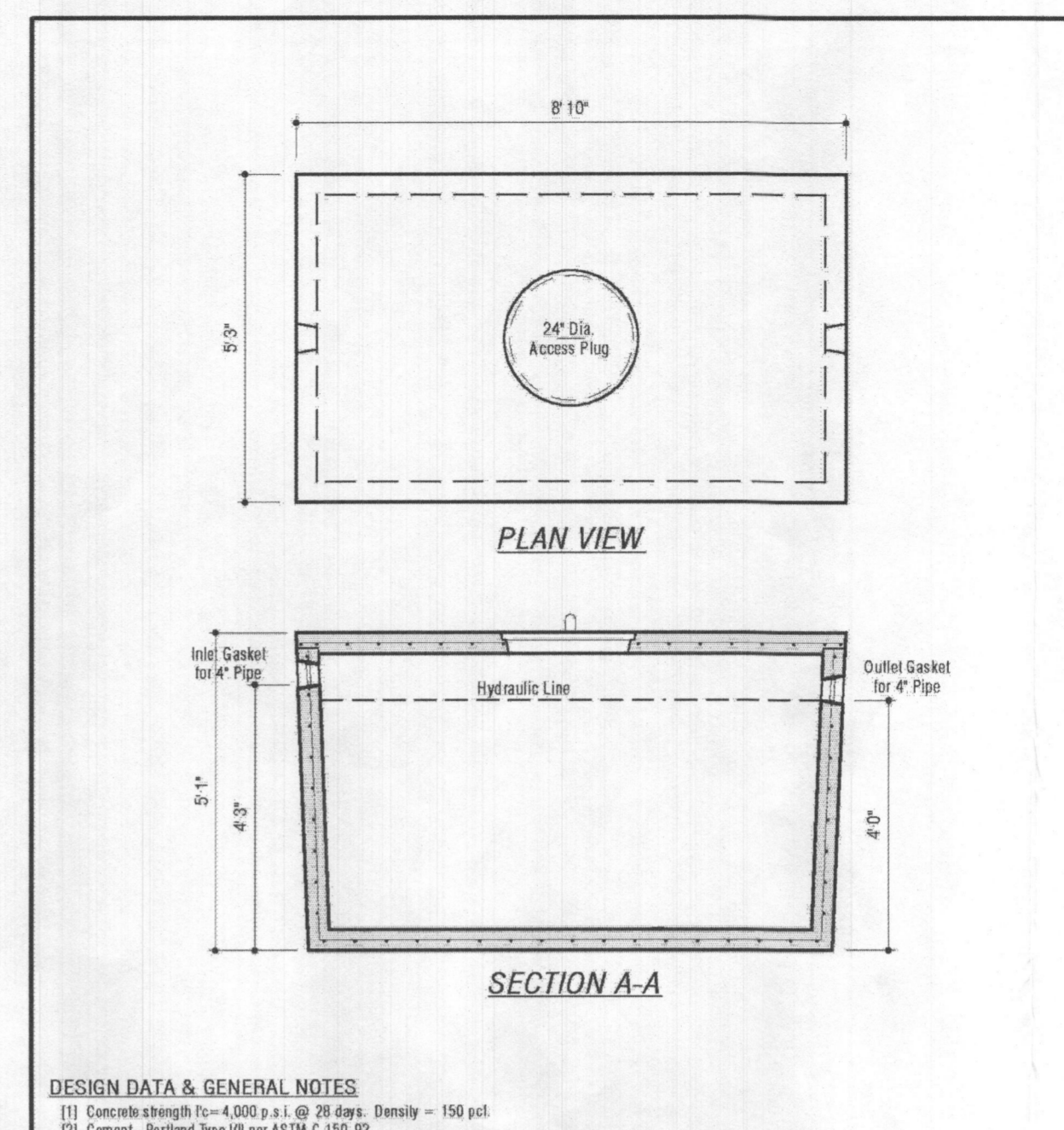


**SEPTIC SYSTEM PROFILE**  
SCALE: HORIZONTAL - 1"=50'  
VERTICAL - 1"=5'



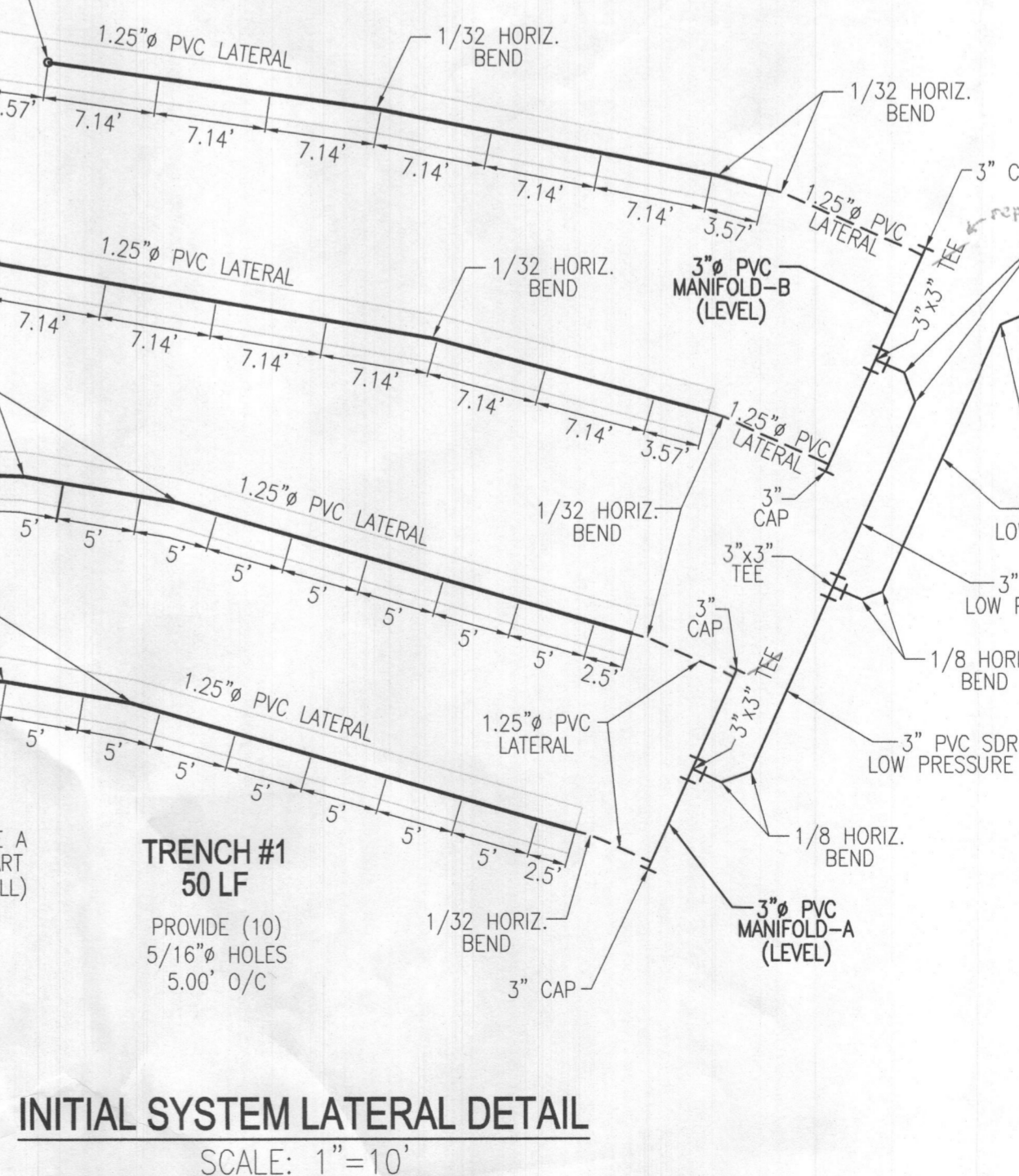
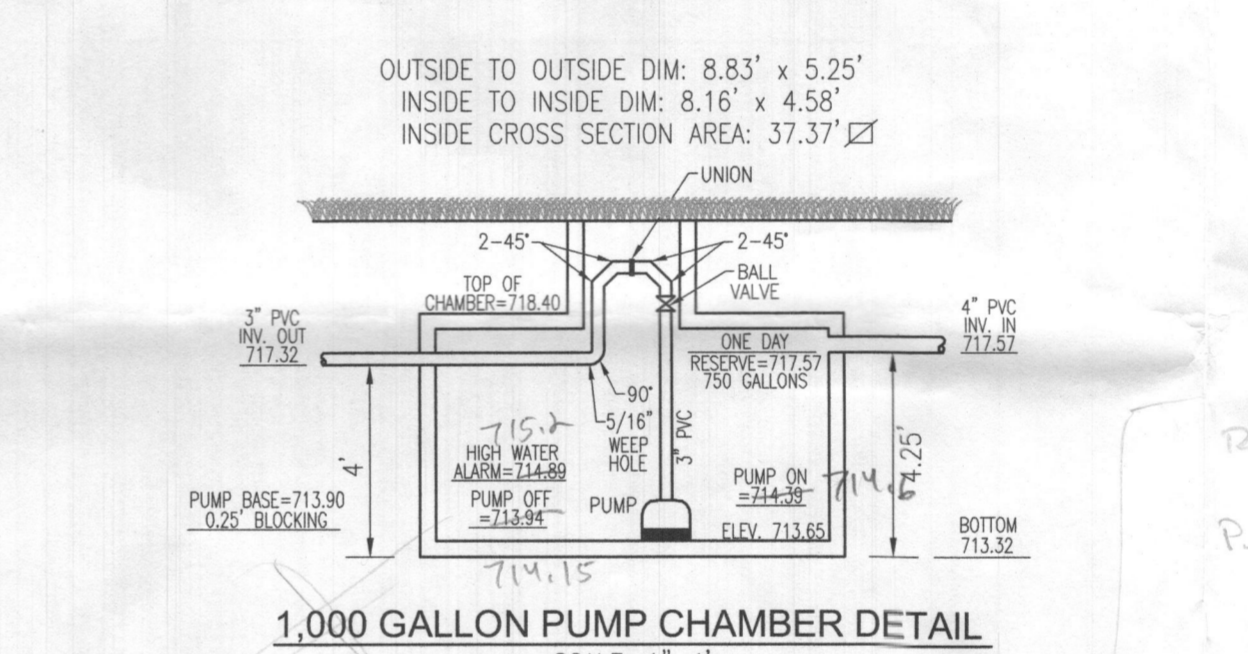
**CRITICAL DIMENSIONS**

|     |     |
|-----|-----|
| 1"  | 1"  |
| 2"  | 2"  |
| 3"  | 3"  |
| 4"  | 4"  |
| 5"  | 5"  |
| 6"  | 6"  |
| 7"  | 7"  |
| 8"  | 8"  |
| 9"  | 9"  |
| 10" | 10" |
| 11" | 11" |
| 12" | 12" |
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| 41" | 41" |
| 42" | 42" |
| 43" | 43" |
| 44" | 44" |
| 45" | 45" |
| 46" | 46" |
| 47" | 47" |
| 48" | 48" |
| 49" | 49" |
| 50" | 50" |



**1,000 GALLON PUMP TANK 1-Compartment**  
Stock Item  
Dwg. No. 1000-P No Scale Jan 1, 2000

**MBI**  
Mayer Bros., Inc.  
6064 Race Road  
Edwards, Maryland 21075  
Tel: 410.286.1494  
Fax: 410.286.1438



**Goulds Water Technology**

**Wastewater**

**APPLICATIONS**  
Specifically designed for the following uses:  
• Homes, Farms, Trailer Courts, Motels, Schools, Hospitals, Industry, Effluent Systems

**SPECIFICATIONS**

**Pump**

- Solids handling capabilities: 1/4" maximum
- Discharge size: 2" NPT
- Capacities: up to 140 GPM
- Total heads: up to 128 feet TDH
- Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

**MOTORS**

- Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.
- Class B insulation on 1/4 - 1 1/2 HP models.
- Class F insulation on 2 HP models.

**Single phase (60 Hz):**

- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.

**AGENCY LISTINGS**

Termed to UL 778 and CSA 22.2 108 Standards  
By Canadian Standards Association File #R32549

**DESIGN DATA & GENERAL NOTES**

- (1) Concrete strength  $f_c = 4,000$  p.s.i. @ 28 days. Density = 150 pcf
- (2) Cement - Portland Type I or II per ASTM C 150-92
- (3) Aggregate - maximum size per ASTM C 295-96 & C 494-92
- (4) Reinforcing per ASTM A195. Min. 1-1/2" cover.
- (5) Top slab finished with 1/4" non-slip matting.
- (6) 4" wall, base, & top thickness.

**FLOW: 30 GPM**  
Head: 84'  
USE GOULDS WE3 (OR EQUIVALENT)

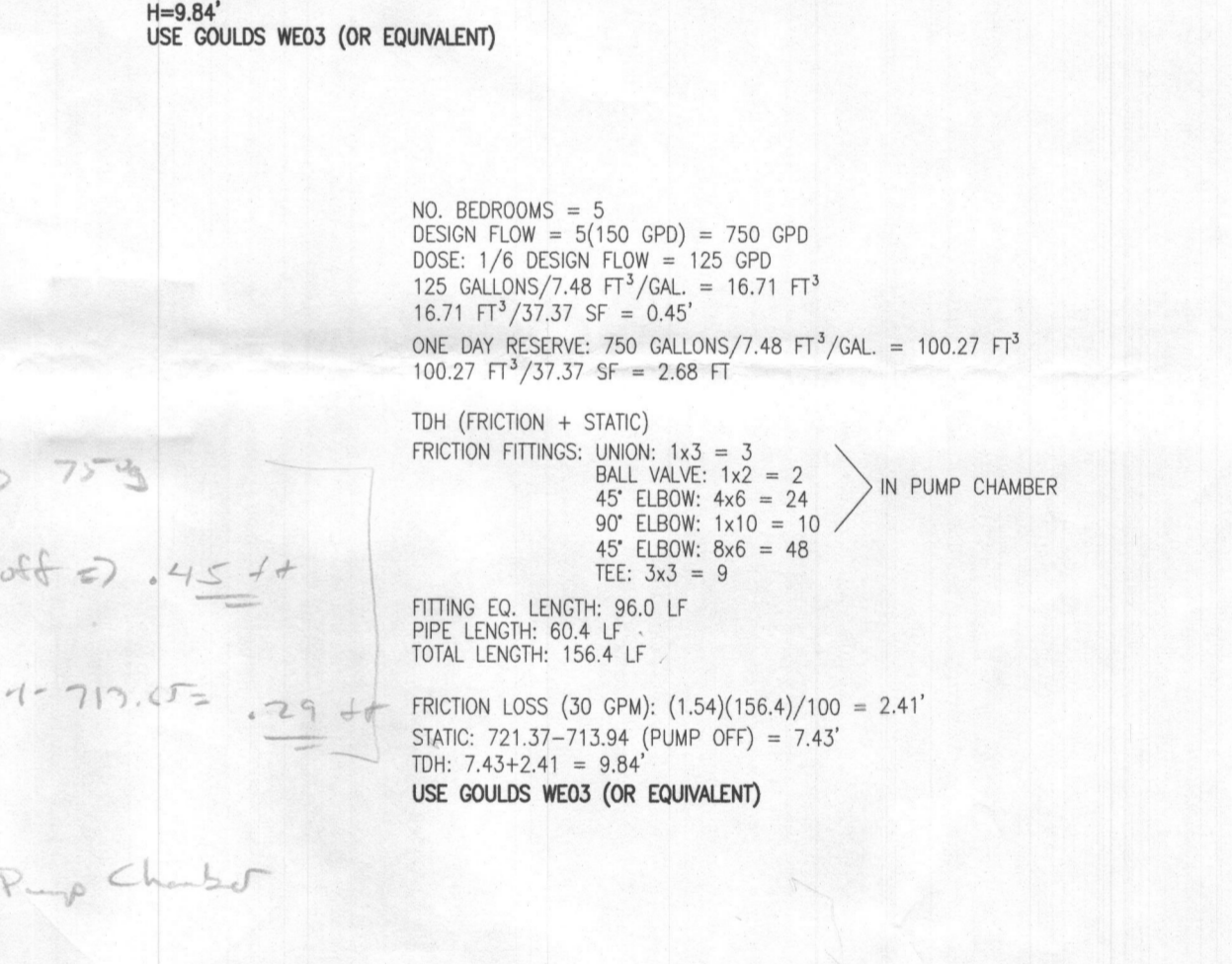
**NO. BEDROOMS = 5**  
DESIGN FLOW = 5(150 GPD) = 750 GPD  
DOSE: 1/6 DESIGN FLOW = 125 GPD  
125 GALLONS/7.48 FT<sup>3</sup>/GAL = 16.71 FT<sup>3</sup>  
16.71 FT<sup>3</sup>/37.37 SF = 0.45'  
ONE DAY RESERVE: 750 GALLONS/7.48 FT<sup>3</sup>/GAL = 100.27 FT<sup>3</sup>  
100.27 FT<sup>3</sup>/37.37 SF = 2.68 FT

**TDH (FRICTION + STATIC)**

FRICITION FITTINGS: UNION: 1x3 = 3  
BALL VALVE: 1x2 = 2  
45° ELBOW: 4x6 = 24  
90° ELBOW: 1x10 = 10  
45° ELBOW: 5x6 = 48  
TEE: 3x3 = 9

FITTING EQ. LENGTH: 96.0 LF  
PIPE LENGTH: 60.4 LF  
TOTAL LENGTH: 156.4 LF

FRICITION LOSS (30 GPM): (1.54)(156.4)/100 = 2.41'  
STATIC: 721.37-713.94 (PUMP OFF) = 7.43'  
TDH: 7.43+2.41 = 9.84'  
USE GOULDS WE3 (OR EQUIVALENT)



**OWNER**  
PHILLIP H. DORSEY  
13090 OLD FREDERICK ROAD  
SYKESVILLE, MD 21784  
240-755-7378

**DEVELOPER**  
M. GREGORY HOME BUILDING, LLC  
6310 WINTERS LANE  
HANOVER, MD 21076  
240-755-7378

**SITE PLAN FOR BAT INSTALLATION**

**HAY MEADOW OVERLOOK - LOT 1**  
540 WATERSVILLE ROAD  
MOUNT AIRY, MD 21771  
(PLAT #25842-25844)

L 19022 / F. 322  
TAX MAP: 2 GRID: 15  
4TH ELECTION DISTRICT

PARCEL: 18  
ZONED: RC-DEO  
HOWARD COUNTY, MARYLAND

**VOGEL ENGINEERING**  
3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043  
P: 410.461.7666 F: 410.461.8961 www.timmons.com

**TIMMONS GROUP**  
PROFESSIONAL CERTIFICATE

DESIGN BY: RHV  
DRAWN BY: JMR  
CHECKED BY: RHV  
DATE: JANUARY 2024  
SCALE: AS SHOWN  
W.O. NO.: 03-117

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16193, EXPIRATION DATE: 09-27-2024.

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