

Bureau of Environmental Health
 8930 Stanford Boulevard, Columbia, MD 21045
 Mail: 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: 3/23/17 **ONSITE SEWAGE DISPOSAL SYSTEM** P 560581

APPROVAL DATE: 5/18/17 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 2787 Florence Road

SUBDIVISION: Layton Knoll LOT: 5 TAX ID: 04-596846

CONTRACTOR: Curtis Cumberland EMAIL: _____

CONTRACTOR ADDRESS: _____ PHONE: _____

CONTRACTOR CERTIFIED FOR BAT INSTALLATION: MDE Manufact: Norweco

PROPERTY OWNER: Jan Estelle Gorden EMAIL: _____

OWNER ADDRESS: 2732 Jennings Chapel Road PHONE: (410) 984-4851

BAT UNIT MODEL: TNTLP - 500 PUMP SIZE: ME40-CI PUMP TANK CAPACITY: 1,000

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: 3/23/17 DATE RECORDED: 3/23/17

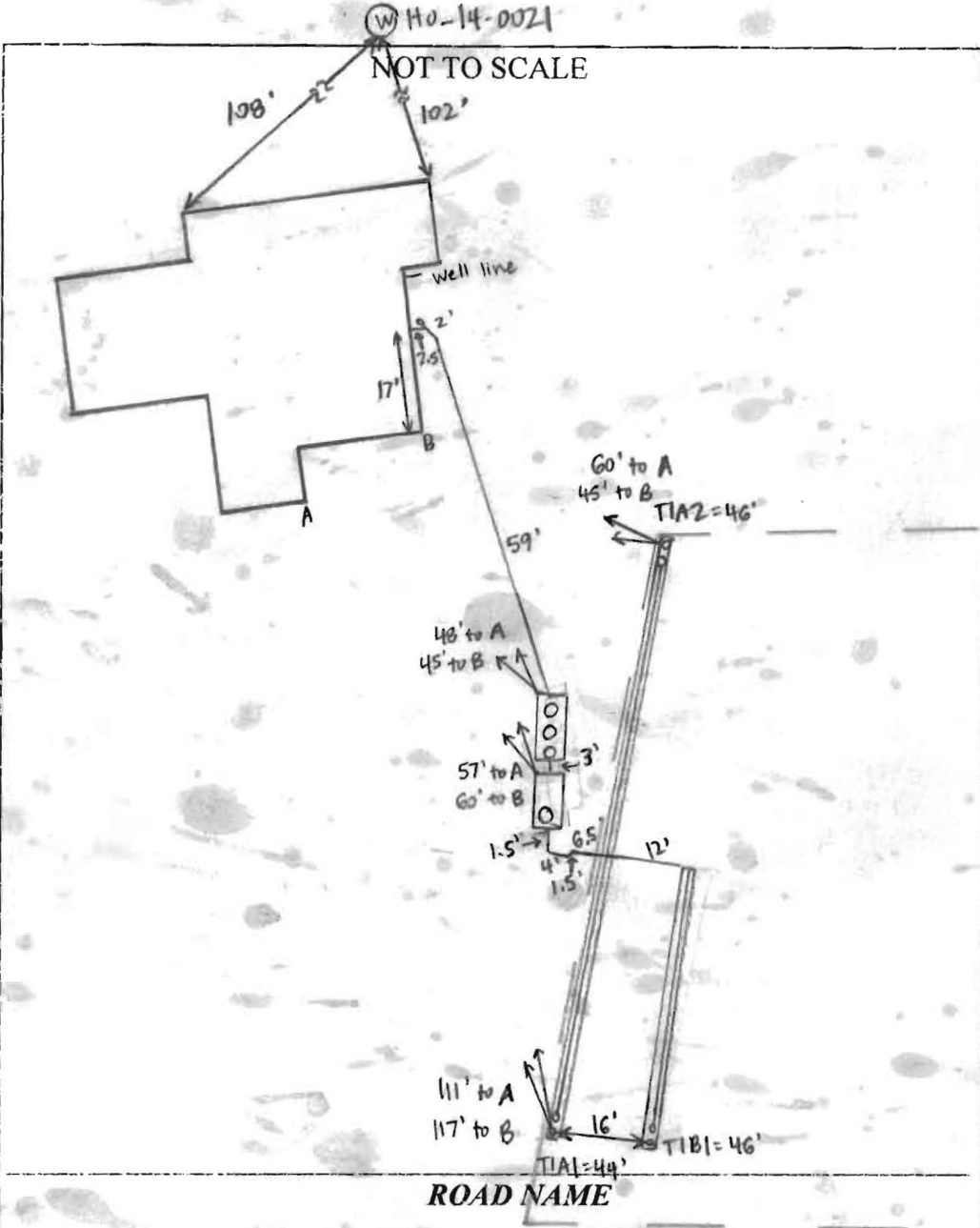
DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>130.2</u>	INLET DEPTH: <u>3.5</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:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	LPD and BAT unit required for downgrade well variance.	

ISSUED BY: Hank Oswald ISSUE DATE: 3/23/17 EXPIRATION DATE: 3/23/18

- 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 SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADE 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 17001098
- 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.**



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	3.5'	6'
NUMBER OF TRENCHES		3
TOTAL LENGTH		138'
ABSORPTION AREA		414' + SIDEWALL
DISTRIBUTION BOX LEVEL		---
DISTRIBUTION BOX BAFFLE		---
DISTRIBUTION BOX PORT		---

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	YES
MANUFACTURER	NORWECO/BACKRIVER
CAPACITY	1300 GAL
SEAM LOC	TOP
TANK LID DEPTH	1-1.5'
BAFFLES	NO
BAFFLE FILTER	NO
MANHOLE LOC	FRONT, MID, REAR
6" FORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	NO
DATE ON LID	---
PUMP/SEPTIC TANK LEVEL YES	
MANUFACTURER	BACKRIVER
CAPACITY	1000 GAL
SEAM LOC	TOP
TANK LID DEPTH	1-1.5'
BAFFLES	NONE
BAFFLE FILTER	NO
MANHOLE LOC	REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	NO
DATE ON LID	---

PRE-CONSTRUCTION:
 4/12/17 onsite w/ curbs controlled. Was not clear that system was 1pd. Want just design in detail. Need BAT stake out and lateral stake out. SPA 2 staked. (S.M.) 5/1/17 Trenches staked. Shot contour and ends are within 2-3" of each other. Okay to install trenches. (S)

INSTALLATION: 5/1/17 House connection made. BAT tank set. (S) 5/3/17 Pump tank set. Trenches A1 + A2 dug - contractor left 9' solid ground @ pipe inlet depth in center of 88" trench. called engineer and OK to add 2' solid 1.5" pipe to each side of manifold before starting lateral pipe. Also OK to add gate valve. TIA1 + TIA2 3' wide. 8' to bottom TIA2 only 38' - need 6" additional. (S) 5/4/17 Trenches dug, stone added. 3' wide 3.5' to stone. Contractor extended TIA2. No trench observation ports - contractor dug up stone + installed during site visit. Added 3' 1.5" pipe from manifold to each of TIA1 + TIA2 for lateral pipe. Holes measured + drilled while on site. Need pump + alarm and BAT startup certification. (S) 5/17/17 on site for pump + alarm. Alarm sounds, gate valve adjusted so distal head is 3.5' on T1, 5' on T2. Norweco alarm + aerator functional. (S) 5/18/17 BAT startup received. (S)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 5/18/17

2787 Florence Rd

Clerk of the Circuit Court for
Howard County
Land Records/Licensing

The Thomas Dorsey Building
9250 Bendix Road
Columbia, MD 21045
410-313-5850

=====
LR - Agreement Recording Fee
1x 20.00 20.00

Name: cumberland
Ref: 64

LR - Agreement Surcharge
1x 40.00 40.00

=====
SubTotal: 60.00
Total: 60.00

=====
REV-Check-BOA 60.00
Number : 495

03/23/2017 14:29 CC13-MH
#8021447 /497/109

~ Thank you for visiting us today ~



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Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

**OPERATION AND MAINTENANCE AGREEMENT
FOR AN ON-SITE SEWAGE DISPOSAL SYSTEM
HAVING AN ADVANCED PRE-TREATMENT SYSTEM**

THIS AGREEMENT is made this 23rd day of March, among Leanne + Josh Hedges, hereinafter collectively referred to as "Owner", and the Howard County Health Department hereinafter referred to as the "County".

WHEREAS, Owner is the owner or contract owner of a parcel of land located at 2787 Florence Rd Mt Airy MD, in the 4th Election District of Howard County, Maryland, and the deed to same is recorded or shall be recorded among the Land Records of Howard County, Maryland in Liber 1703 Folio 104.

WHEREAS, The Lot is suitable for the installation of a conventional on-site sewage disposal system with an advanced pre-treatment system, utilizing best available technology to perform nitrogen reduction, in accordance with the Code of Maryland Regulations 26.04.02.07, effective January 1, 2013. The pre-treatment device being installed is Norweco.

NOW, THEREFORE, the parties hereto agree as follows:

- A. Owner hereby grants to the County the right to enter upon the Lot at any reasonable time for access to the system to make periodic inspections and the Owner agrees to provide any information and data in Owner's possession reasonably requested and needed by the County to develop accurate and thorough test results.
- B. Owner acknowledges and agrees that neither the County nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.
- C. The Owner will devote reasonable care and effort to the operation and maintenance of the system in perpetuity or until a public sewer connection is made so that a system malfunction is not the result of poor maintenance, faulty operation, or neglect.
- D. The Owner agrees to enter into a contract reasonably acceptable to the Owner and the County with a private entity to operate and maintain on a regularly scheduled basis an approved advanced pre-treatment system. The owner shall supply a copy of the contract to the County when it is renewed or altered.
- E. This agreement shall run with the land and upon Owner's taking title to the Lot shall bind the Owner, their heirs, successors, and assigns to the provisions of the agreement as long as the property is in existence and after installation of the system. Owner further agrees that they shall inform in writing any subsequent purchaser or lessee of the Lot that the system shall require

maintenance or other attention. Upon taking title to the Lot, the Owner agrees to cause this agreement to be recorded in the Land Records of Howard County and assure that it becomes part of the Deed for the subject property in order that prospective buyers may be aware of the special conditions affecting this property.

F. This agreement shall not be construed to limit any authority of the County to protect the public health, safety or comfort or to issue any other orders to take any other action which is now or may hereafter be within its authority.

G. This agreement may be voided at any time at the discretion of the County.

H. This agreement contains the entire agreement and understanding between the County and the Owner. There are no additional terms other than as contained in this agreement. This agreement may not be modified, except in writing signed by each of the parties or by their authorized representatives.

I. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.

J. Owner acknowledges and agrees that interior renovations to increase the number of bedrooms or an increase in living space shall not be permitted without approval from the County.

IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.

Bert Nijon 3/23/2017
Howard County Health Department

Courtney Rumbold 3/21/17
Owner #1 Signature Date

Owner#2 Signature Date

Owner #1 Print Name

Owner #2 Print Name

Leanne Hedges 3/21/17
Buyer #1 Signature Date

Joshua Hedges 3/21/17
Buyer #2 Signature Date

Leanne Hedges
Buyer #1 Print Name

Joshua Hedges
Buyer #2 Print Name

Collins, Sarah

From: Stephanie Tuite <Stephanie@fcc-eng.com>
Sent: Wednesday, May 03, 2017 3:15 PM
To: Collins, Sarah
Subject: Layton Knolls Lot 5 BAT
Attachments: Stephanie Tuite.vcf

Sarah,

Per your request, I don't see a problem with the two additional feet of solid 1.5" pipe added from the center to the pipes in each Trench 1A and 1B. Additionally adding the gate valve from the tank on the 2" pipe should also not be a problem. These additions only add around 0.2 ft of head or so. The pump as sized should be able to handle this small amount of additional head.

Steph



Transmittal

Via: Fax Mail Messenger E-Mail To Be Picked Up
 Fax (original to follow via U.S. Mail)

To: Bureau of Environmental Health 8930 Stanford Blvd Columbia, MD 21046-4544	Attn: Robert Freemon Fax: (410) 313-2648 Phone: (410) 313-2640
--	---

From: Stephanie Tutie	CC:
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Re: Layton Knoll, Lot 3 BAT Plan	W.O.# 60787-6
Date: December 16, 2016	Pages: 4 Page(s) Including this cover

We are forwarding:	<input checked="" type="checkbox"/> Prints	<input type="checkbox"/> Copy of Letter	<input type="checkbox"/> Specifications	<input type="checkbox"/> Shop drawings	<input type="checkbox"/> Other
	<input type="checkbox"/> Urgent	<input type="checkbox"/> For your use	<input type="checkbox"/> As requested	<input type="checkbox"/> For Review & Comment	

Remarks:

Attached please find three (3) copies of the revised BAT Site Plan associated with Building Permit #B16004892 (2787 Florence Road) for your review and signature approval.

Detail of pump shown, an overall trench length has been added, lateral pipe lengths have been revised, and column labels have been revised as requested in your comments of 12/15/16.

If you have any questions or comments, please do not hesitate to call.

Very truly yours,

Stephanie Tuite, RLA, PE, LEED AP BD&C
Fisher, Collins & Carter, Inc.

CONFIDENTIALITY NOTICE

This transmission contains confidential information which may be legally privileged, and is intended only for the use of the individual named above. If you are not the intended recipient, you are hereby notified that any distribution (except to the intended recipient), copying, or disclosure of this transmission is strictly prohibited.

Transmittal

Via: Fax Mail Messenger E-Mail To Be Picked Up
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To: Bureau of Environmental Health 8930 Stanford Blvd Columbia, MD 21046-4544	Attn: Robert Freemon Fax: (410) 313-2648 Phone: (410) 313-2640
--	---

From: Stephanie Tutie	CC:
------------------------------	-----

Re: Layton Knoll, Lot 3 BAT Plan	W.O.# 60787-6
Date: December 9, 2016	Pages: 4 Page(s) Including this cover

We are forwarding: <input checked="" type="checkbox"/> Prints <input type="checkbox"/> Copy of Letter <input type="checkbox"/> Specifications <input type="checkbox"/> Shop drawings <input type="checkbox"/> Other <input type="checkbox"/> Urgent <input type="checkbox"/> For your use <input type="checkbox"/> As requested <input type="checkbox"/> For Review & Comment
--

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Very truly yours,

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Williams, Jeffrey

From: Williams, Jeffrey
Sent: Thursday, November 10, 2016 9:12 AM
To: 'Tony Fertitta'
Cc: Stephanie Tuite (Stephanie@fcc-eng.com)
Subject: RE: Layton Knoll Lot 5

Downgrade well variance

From: Tony Fertitta [<mailto:tonyf@fcc-eng.com>]
Sent: Thursday, November 10, 2016 8:54 AM
To: Williams, Jeffrey
Subject: Layton Knoll Lot 5

Good Morning Jeff,

I was asked to contact you about Lot 5 Bat system. They asked me why we are doing a low pressure dose system on this lot.

Thanks



Right Click the Card to add me to your Contacts



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Twitter: HowardCoHealthDep

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

MEMORANDUM

TO: Stephanie Tuite
Fisher, Collins & Carter, Inc.
10272 Baltimore National Pike
Ellicott City, MD 21042

FROM: Robert Freemon *RIF*
Well & Septic Program

RE: 2787 Florence Rd.
Woodbine, MD 21797
"BAT/LPD Plan"

DATE: 12/15/2016

I have reviewed the BAT/LPD Design Plan and here are my comments.

- There needs to be a weep hole or vacuum breaker on the pump tank.
- If there is a quick disconnect it needs to be shown on the plan and included in the calculations. Contractors typically put these on to make pump replacement a lot easier in the future. If they choose to do this and it is not on the plan they will have to contact you for approval before having you add it to the plan.
- Trench 1A1 and 1A2 should be shown as an 88ft trench if a tee/cross is being used.
- On the 2nd page in the Center Feed Layout Diagram the 44ft Lateral Pipe Length needs to be changed to 41.80 (1A1, 1A2) and 41.25 (1B1).
- On the 1st page the Trench Design Chart needs to specify "Depth to Stone from Ground Surface" and "Starting Effective Depth (From Ex. Ground)."

Freemon, Robert

From: Stephanie Tuite <Stephanie@fcc-eng.com>
Sent: Thursday, December 15, 2016 4:29 PM
To: Freemon, Robert
Subject: RE: hi

Importance: High

The union was figured into the comps. I have always been asked to show the trenches as 44 ft each as opposed to 88 feet in the past. I am looking at the plan and the depth to stone is shown along with the effective depth, are you asking me to relabel the columns?

Steph

Stephanie Tuite, RLA, PE, LEED AP BD&C
FISHER, COLLINS & CARTER, INC.

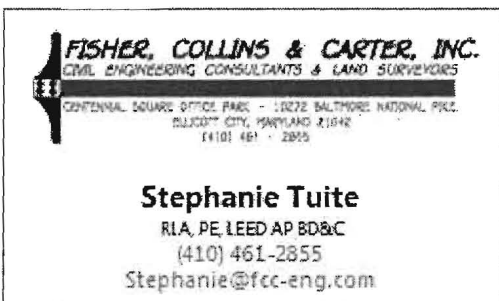
From: Freemon, Robert [<mailto:rfreemon@howardcountymd.gov>]
Sent: Thursday, December 15, 2016 4:23 PM
To: Stephanie Tuite <Stephanie@fcc-eng.com>
Subject: RE: hi

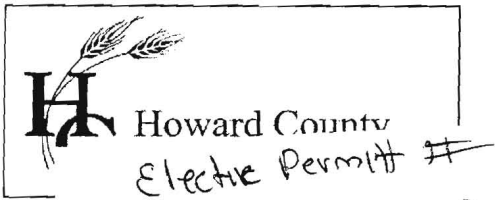
Hey Stephanie,
Here are my comments for 2787 Florence. If you have any questions let me know.

From: Stephanie Tuite [<mailto:Stephanie@fcc-eng.com>]
Sent: Thursday, December 15, 2016 3:54 PM
To: Freemon, Robert
Subject: hi

I will be stopping in to drop off a plan around 9am if you need anything on Layton Knoll Lot 5. FYI.

Steph





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ssman, M.D., Health Officer

AGE DISPOSAL SYSTEM P _____
CONSTRUCTION A _____

AP.
 PROJ
 SUBC
 CONT
 CONT:
 CO
 PROP
 OWNE

LOT: 5 TAX ID: 04-596846
 EMAIL: _____
 PHONE: _____
 MDE MANUFACTURER:
 EMAIL: _____
 PHONE: _____

BAT UNIT MODEL: Norweco 500TNT PUMP SIZE: ME40-CI PUMP TANK CAPACITY: 1,000

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TRENCHES:	LINEAR FEET REQUIRED: <u>130.2</u>	INLET DEPTH: <u>3.5</u>
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LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	LPD and BAT Unit Required for down grade well variance.	

ISSUED BY: Robert Freemon ISSUE DATE: _____ EXPIRATION DATE: _____

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GENERAL NOTES:

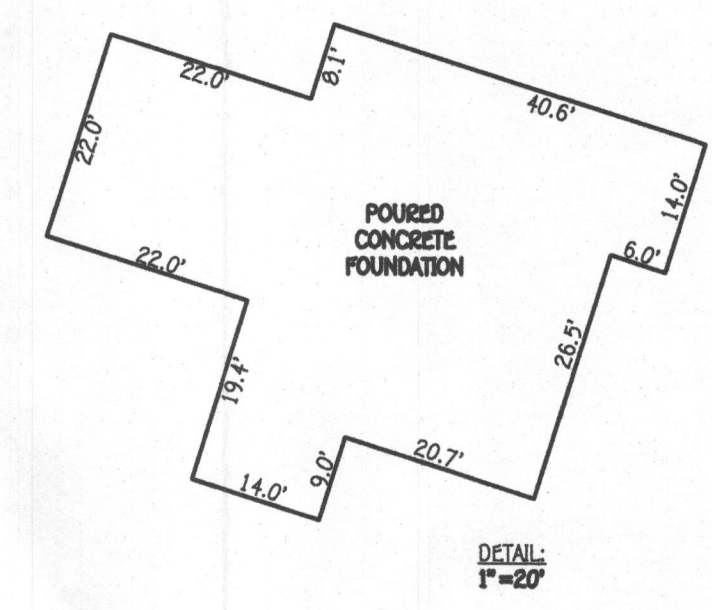
- 1) THIS LOCATION DRAWING IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM IN SO FAR AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR REFINANCING OF THE PROPERTY SHOWN HEREON. UNLESS 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. 24027C0030D EFFECTIVE NOV. 6, 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) 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 10/04/2018.
- 6) THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-14-0021) HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.
- 7) BUILDING PERMIT# B-16004892

LEGEND

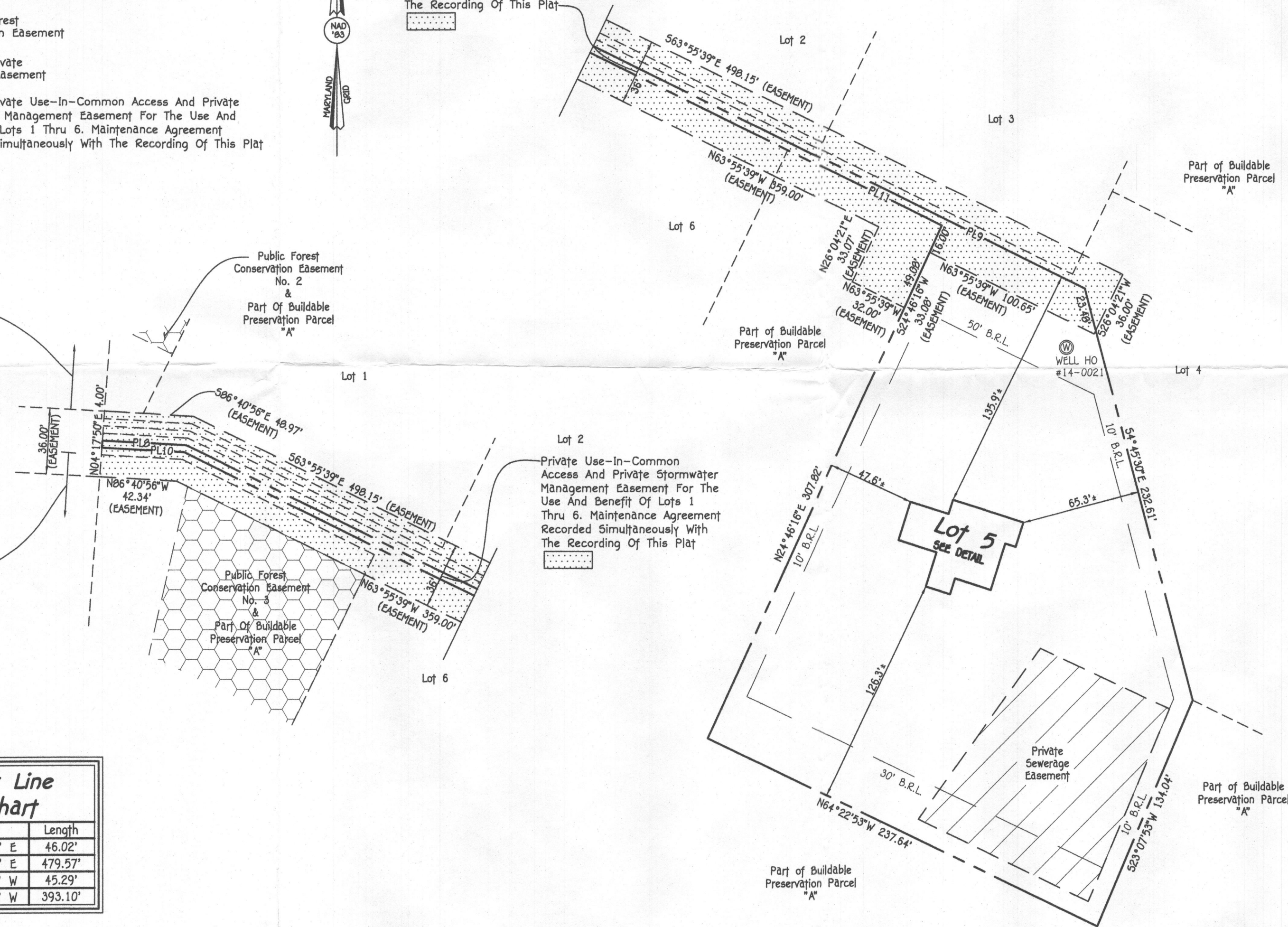
- Denotes Forest Conservation Easement
- Denotes Private Sewerage Easement
- Denotes Private Use-In-Common Access And Private Stormwater Management Easement For The Use And Benefit Of Lots 1 Thru 6. Maintenance Agreement Recorded Simultaneously With The Recording Of This Plat



Private Use-In-Common Access And Private Stormwater Management Easement For The Use And Benefit Of Lots 1 Thru 6. Maintenance Agreement Recorded Simultaneously With The Recording Of This Plat



Florence Road
 (Major Collector)
 Public Roadway Maintained By Howard County
 Vehicular Ingress And Egress Restricted



2787
170010

3/23/17 - well check ok. H.O.

Line	Bearing	Length
PL8	S 06°40'56" E	46.02'
PL9	S 63°55'39" E	479.57'
PL10	N 06°40'56" W	45.29'
PL11	N 63°55'39" W	393.10'

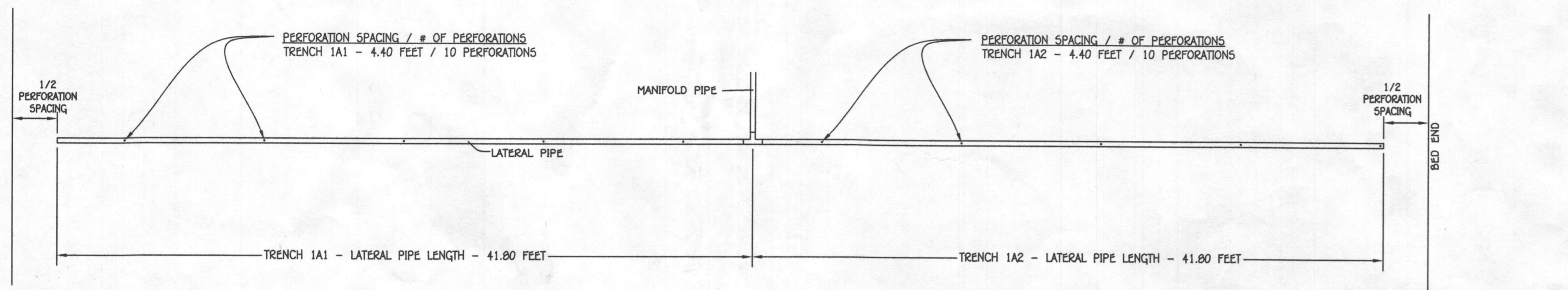


Mark Z. Hibel
 PROPERTY LINE SURVEYOR
 REG. #339
 1/10/17
 DATE

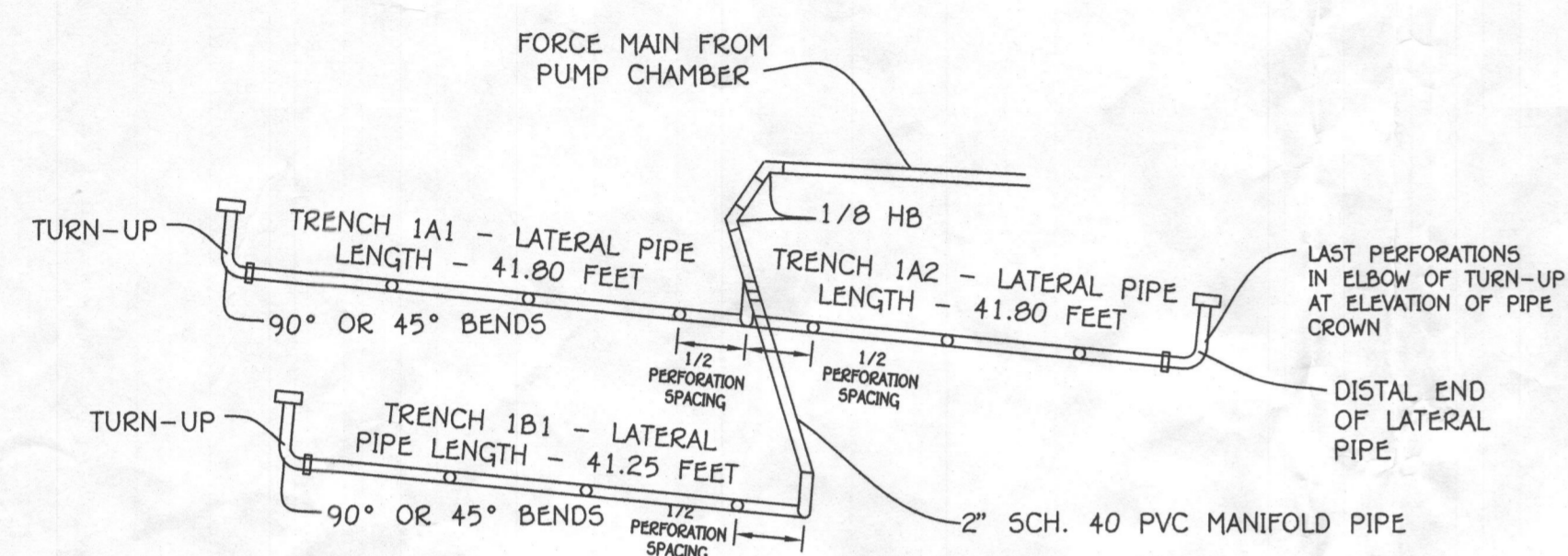
HOUSE LOCATION DRAWING

FOUNDATION LOCATION: 1/25/17
 FINAL LOCATION:
 BOUNDARY SURVEY:
 SCALE: 1"=50'
 DATE: 1/10/17
 DRAWN BY: GAD
 CHECKED BY: MLC
 PROJECT No.: 80787-6021

LOT 5
 LAYTON KNOLL
 LOTS 1 THRU 6, BUILDABLE PRESERVATION PARCEL 'A' AND NON-BUILDABLE PRESERVATION PARCEL 'B'
 PLATS #22918 THRU 22920
 FOURTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND



CENTER FEED LAYOUT



END FEED LAYOUT

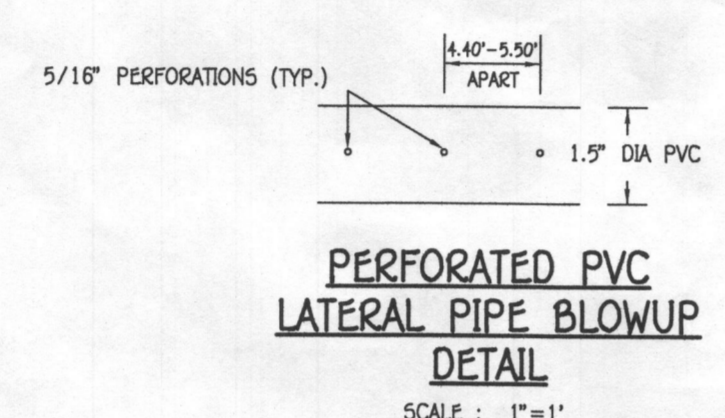
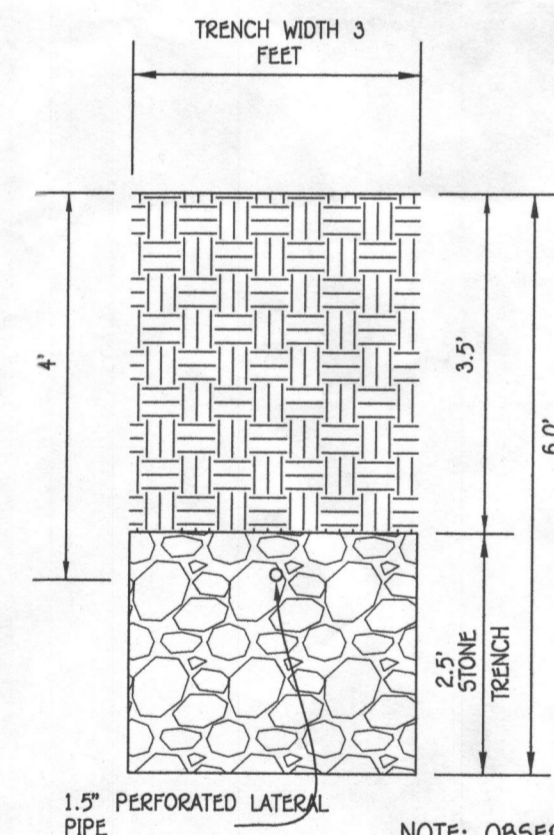


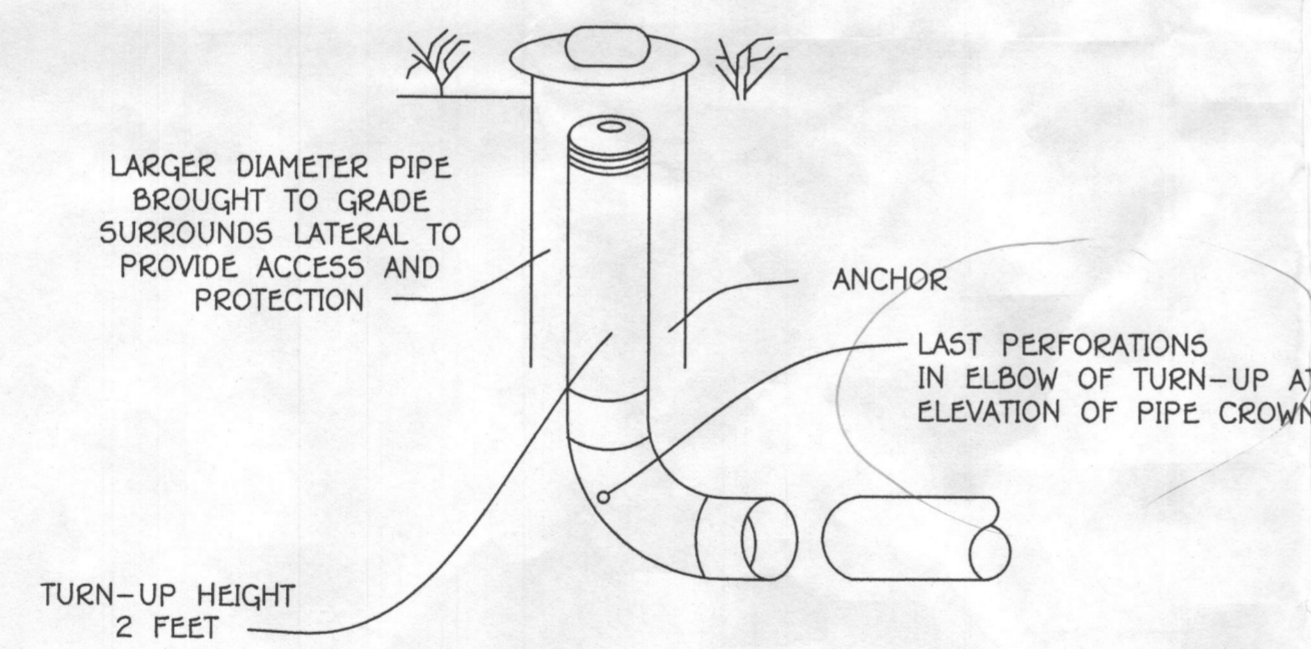
FIGURE 4.1 CENTER FEED MANIFOLD DISTRIBUTION NETWORK

NOTE: PLACE AN OBSERVATION PIPE IN THE GRAVEL BED AT THE DISTAL END OF EACH TRENCH SEGMENT.



TRENCH DETAIL
SCALE: 1"=2'

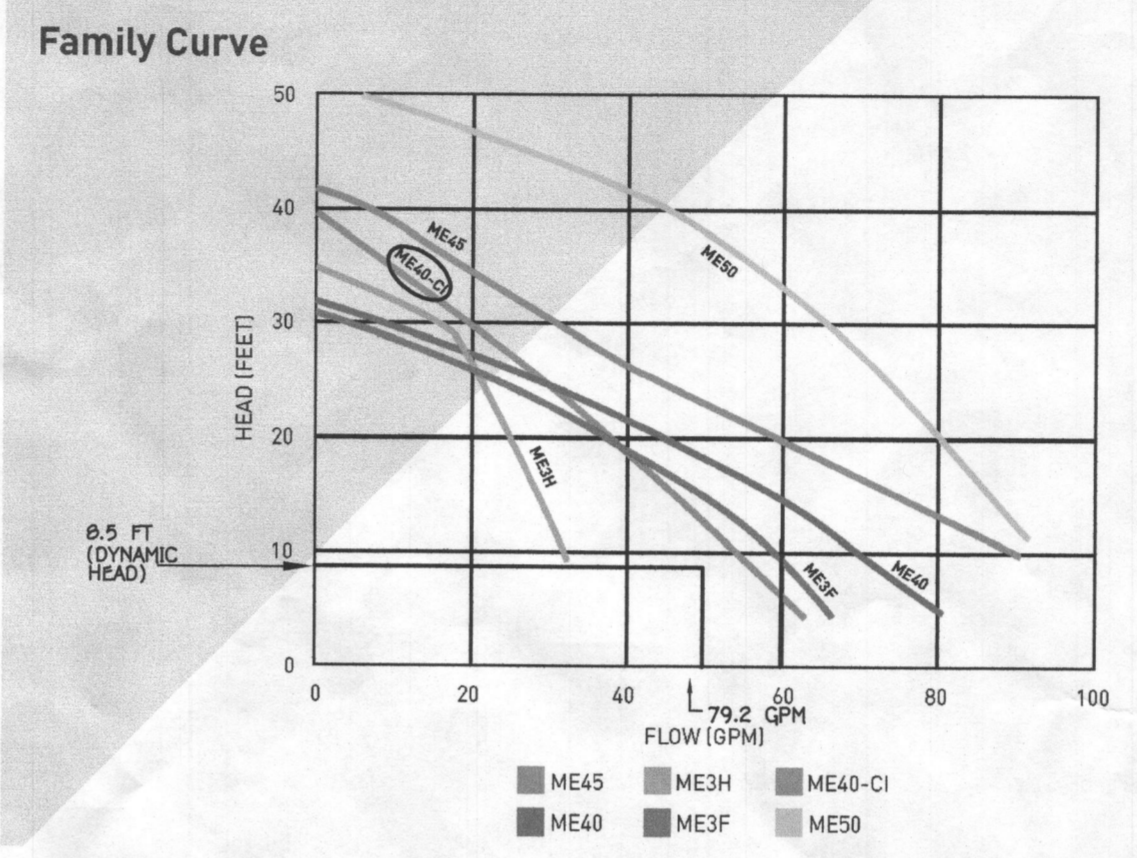
NOTE: OBSERVATION PIPE MUST BE INSTALLED AT EACH END OF EACH TRENCH



ME SERIES EFFLUENT PUMPS

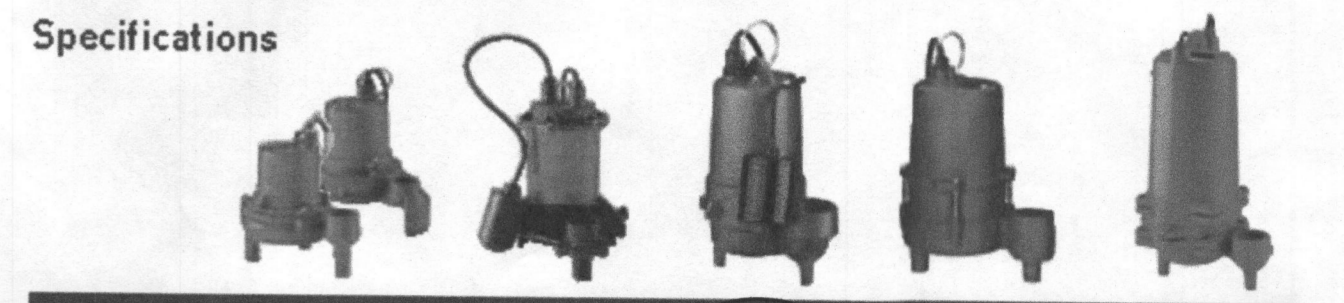
Trust The Pump Experts.
Myers has a market leading portfolio of horsepower and pump curve combinations, delivered with distinctive service.

- Features**
- RELIABLE AND TOUGH**
 - Rugged, oil-cooled motor provides continuous bearing lubrication and maximizes heat dissipation
 - EXTENDED SERVICE**
 - Lubricated ball bearings and shaft seal for longer service life
 - MOTOR PROTECTION**
 - Long-life carbon/ceramic seal protects motor against water leakage
 - THERMAL OVERLOAD**
 - Heat sensor overload protection with automatic reset when motor cools to safe operating temperature
 - NO DRILLING REQUIRED**
 - Anti-airlock hole in base reduces added labor
 - EASY SERVICEABILITY**
 - Pump, intake screen volute base, switch and power cord are serviceable

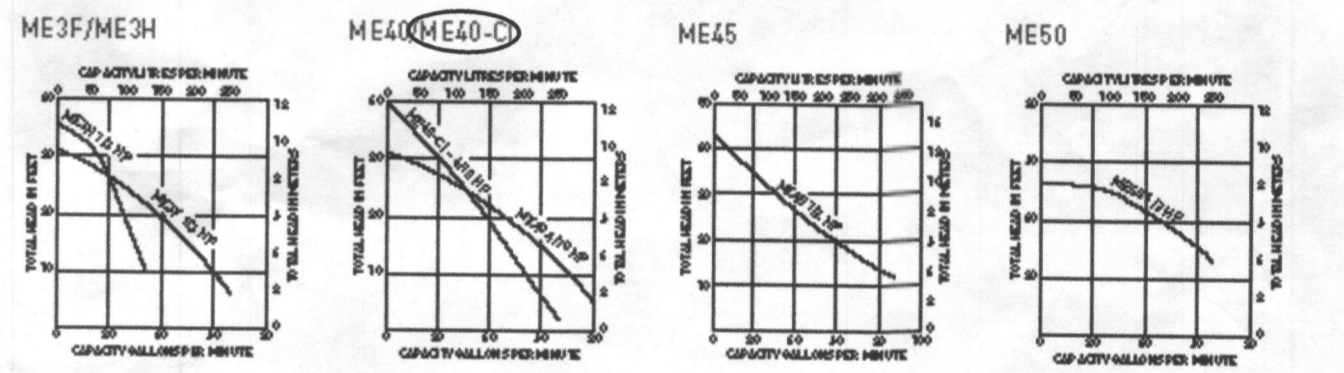


NOTE: USE A ME40-CI PUMP

ME SERIES



Specifications	ME3F/ME3H	ME40	ME40-CI	ME45	ME50
Capacity	ME3H: 36 GPM (136 LPM) ME3F: 60 GPM (227 LPM)	90 GPM (338 LPM)	40 GPM (151 LPM)	97 GPM (367 LPM)	120 GPM (454 LPM)
Static Head	ME3H: 35' (10.7 m) ME3F: 21' (6.4 m)	22' (6.7 m)	40' (12.2 m)	44' (13.4 m)	95' (28.9 m)
Operation	Automatic or manual	Automatic or manual	Automatic or manual	Automatic or manual	Automatic or manual
Solids Handling	3/4" (19 mm)	3/4" (19 mm)	3/4" (19 mm)	3/4" (19 mm)	3/4" (19 mm)
Liquids Handling	Domestic effluent and drain water	Domestic effluent and drain water	Domestic effluent and drain water	Domestic effluent and drain water	Domestic effluent and drain water
Liquid Temp.	Intermittent up to 140°F (60°C)	Intermittent up to 140°F (60°C)	Continuous 120°F (50°C)	Intermittent up to 140°F (60°C)	Intermittent up to 140°F (60°C)
Motor Electrical Data	1/2 HP, 1850 RPM, 115V, 12A, 1φ, 60Hz 200V, 6A, 1φ, 60Hz	1/2 HP, 1850 RPM, 115V, 12A, 1φ, 60Hz 200V, 6A, 1φ, 60Hz	1/2 HP, 1850 RPM, 115V, 12A, 1φ, 60Hz 200V, 6A, 1φ, 60Hz	1/2 HP, 1850 RPM, 115V, 12A, 1φ, 60Hz 200V, 6A, 1φ, 60Hz	1/2 HP, 1850 RPM, 115V, 12A, 1φ, 60Hz 200V, 6A, 1φ, 60Hz
Acceptable pH Range	6-9	6-9	6-9	6-9	6-9
Shaft Seal	Carbon and ceramic mechanical seal	Carbon and ceramic mechanical seal	Carbon and ceramic mechanical seal	Carbon and ceramic mechanical seal	Carbon and ceramic mechanical seal
Housing/Volute	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron
Volute Base	Fiberglass-reinforced polypropylene	Cast iron	Cast iron	Cast iron	Cast iron
Impeller	Fiberglass-reinforced polypropylene	Cast iron	Thermoplastic, non-clog, vortex type	Cast iron	Cast iron
Exterior Hardware	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Power Cord	20', 14/2, SJTW	20', 14/2, SJTW	20', 14/2, SJTW	20', 14/2, SJTW	10'
Discharge, NPT	1-1/2" (38.1 mm)	1-1/2" (38.1 mm)	2" (50.8 mm)	2" (50.8 mm)	2" (50.8 mm)

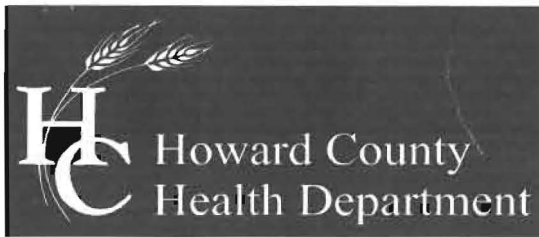


PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38386, EXPIRATION DATE: 01/12/2018.
[Signature] DATE: 12/15/16
Signature of Professional Engineer



Approved Septic System Plan
Howard County Health Department
[Signature] 12/15/16
Signature Date

LAYTON KNOLL
LOT 5
LOTS 1 THRU 6 AND
BUILDABLE PRESERVATION PARCEL 'A'
& NON-BUILDABLE PRESERVATION PARCEL 'B'
ZONING: RC-DEO
TAX MAP No. 7 GRID No. 19 PARCEL No. 112
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DATE: DECEMBER 2016



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
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TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org
Facebook: www.facebook.com/hocohealth
Twitter: HowardCoHealthDep

Peter L. Beilenson, M.D., M.P.H., Health Officer

August 24th, 2012

Noreen Gordon
2732 Jennings Chapel Road
Woodbine, MD 21797

**RE: Variance request
Music Land LLC**

Dear Mrs. Gordon,

The Health Department has received your variance request dated August 7th, 2012 for the above referenced property. Maryland Department of the Environment has accepted our recommendation to approve the following variance request under the *Code of Maryland Regulations 26.04.02.05 (C)* to allow: the sewage disposal area serving the proposed house on Lot 5 to be located upgradient from the existing private water supply at 2867 Florence Road (Tax Map 7 Parcel 155). Due to the landscape position of the sewage areas and wells, the request was approved given that the sewage disposal area is greater than 200' from the well and the soil conditions are acceptable.

If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-6287.

Sincerely,

Heidi Scott, R.S.
Well & Septic Program

Maryland Department of the Environment
Steven Krieg, R.S.

Cc: File
Property owner

