



Howard County
Health Department

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: 11/17/17 **ONSITE SEWAGE DISPOSAL SYSTEM** P 562337

APPROVAL DATE: 12/01/2017 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 12337 Point Ridge Drive

SUBDIVISION: Regan Property LOT: 9 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 Highland Reserve EMAIL: _____

OWNER ADDRESS: 1686 E. Gude Drive, Rockville, MD 20850 PHONE: 410-301-762-9511

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Mayer Bros or equivalent

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

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

TRENCHES:	LINEAR FEET REQUIRED: <u>104-173'</u>	INLET DEPTH: <u>4'3"</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8'5"</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5</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: Dana Bernard/Robert Bricker ISSUE DATE: 11/17/17 EXPIRATION DATE: 11/17/18

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 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 _____

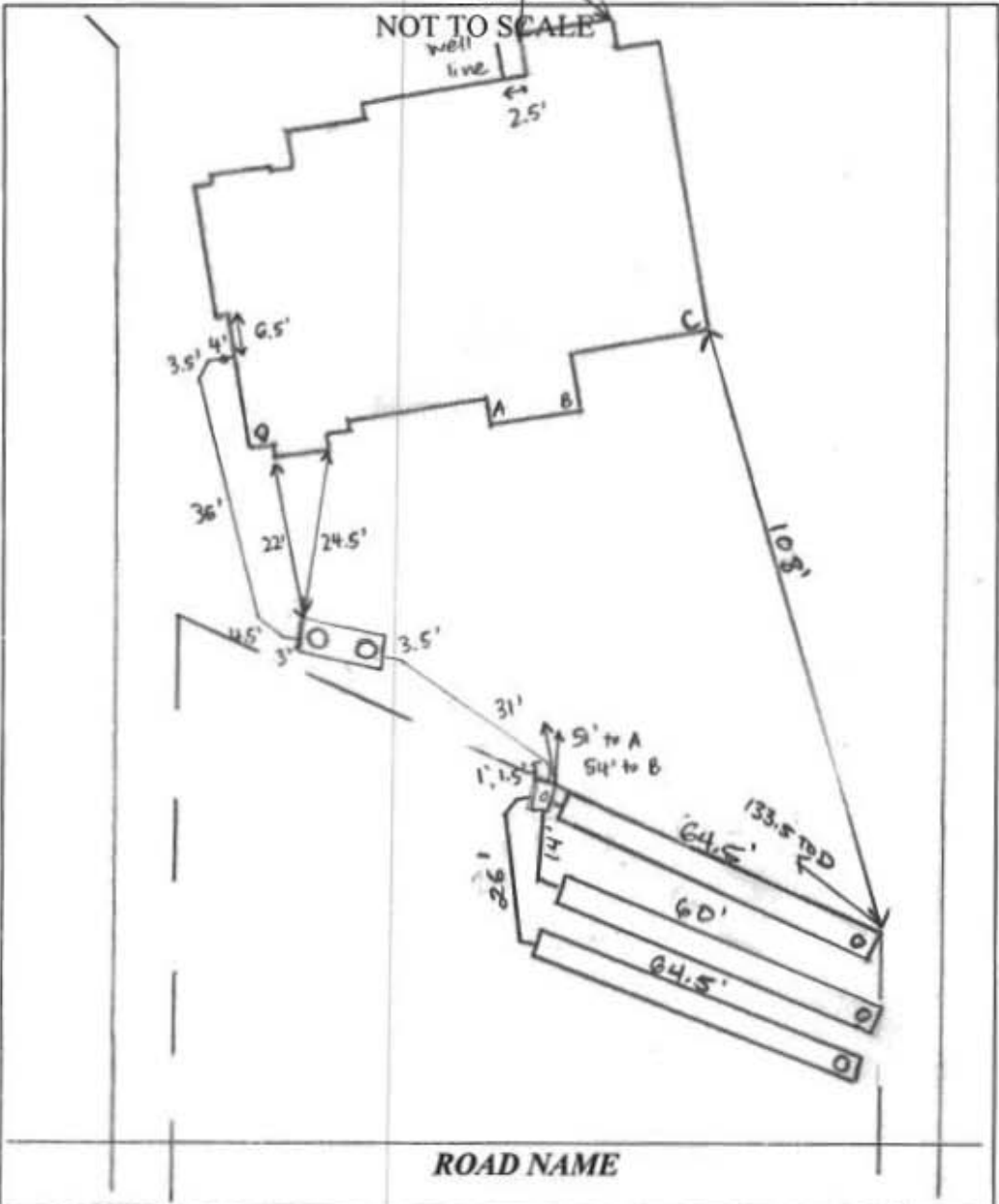
NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

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.

W 110-14-0001



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3	3'	5'
NUMBER OF TRENCHES		3
TOTAL LENGTH		189'
ABSORPTION AREA		567 sq ft
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	0.5-1'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	YES
DATE ON LID	10-21-17
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:

11/28/17 Met Hatfield's on site for layout. Specs for trenches do not keep 4' buffer from rock on perc notes - no trench layout today. Sewer line coming out of house at location shown on plan. Okay to set tank as shown on plan. SDA corner stakes present. (C)
 11/29/17 Shot contour + laid out 3x58' trenches. Starts of T2 + T3 are a few inches higher than ends - want use laser while digging trenches. (C)

INSTALLATION:

11/29/17 House connection made. Tank + D-box set. pipe laid from house to D-box. (C) 12/01/17 Trenches installed. D-box leveled. Contractor used Level. On to backfill. (C)

FINAL INSPECTOR *[Signature]* DATE OF APPROVAL 12/01/2017

BOOK: 17775 PAGE: 419

LR - Agreement	
Recording Fee	20.00
Name: Weng	
Ref: 38	
LR - Agreement	
Surcharge	40.00
<hr/>	
SubTotal:	60.00
<hr/>	
Total:	60.00
09/28/2017 01:31	
CC13-DS	
8975637 CC0503 -	
Howard Co	
Columbia/CC05.03.07 -	
Register 07	



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Twitter: HowardCoHealthDep

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Lot 9

AGREEMENT FOR APPROVAL OF AN INDIVIDUAL DRINKING WELL WITH AN ON-SITE TREATMENT SYSTEM

This agreement is entered into by and between the Howard County Health Department ("the Health Department") and Ken and Julia Weng ("the Owner").

WHEREAS, the Owner owns a tract of land at street address 12337 Point Ridge Drive, Fulton, MD 20759 and the deed and subdivision plat of the property is recorded among the Land Records of Howard County, Maryland, Tax Map # 34, Block # 24, Parcel # 200, Deed Reference # _____ and Tax Account # 05-597442 ("the Property").

WHEREAS, the Property lacks an available public drinking water source and is required to have and individual well as the source of drinking water for the residence of the property.

WHEREAS, the Owner has installed a residential drinking well under well permit HO14-0001 that has been tested by the Health Department (or a private laboratory certified to perform testing) for radionuclide particles. The results of the tests have shown that the gross alpha particle content and/or the gross beta particle content and/or the combined radium 226/228 levels exceeds the standards of 15 picocuries per liter (pCi /L), 4 millirems per year (mrem/yr) and/or 5pCi/L respectively.

WHEREAS, The Maryland Department of the Environment (MDE) has promulgated rules and regulations under which a Certificate of Potability may be issued and has delegated the authority to issue such Certificate to the Health Department.

WHEREAS, MDE regulations permit the Health Department to issue as a special condition, a permanent deviation to the Certificate of Potability for individual wells where treatment has been installed to meet the maximum contaminate levels (MCL's) for radionuclides.

WHEREAS, MDE has determined that radium can be effectively removed from the drinking water by the use of treatment devices (e.g., ion exchange or reverse osmosis).

WHEREAS, the Owner is requesting that the Health Department issue a Certificate of Potability contingent upon installation and maintenance of a water treatment device to reduce radionuclides.

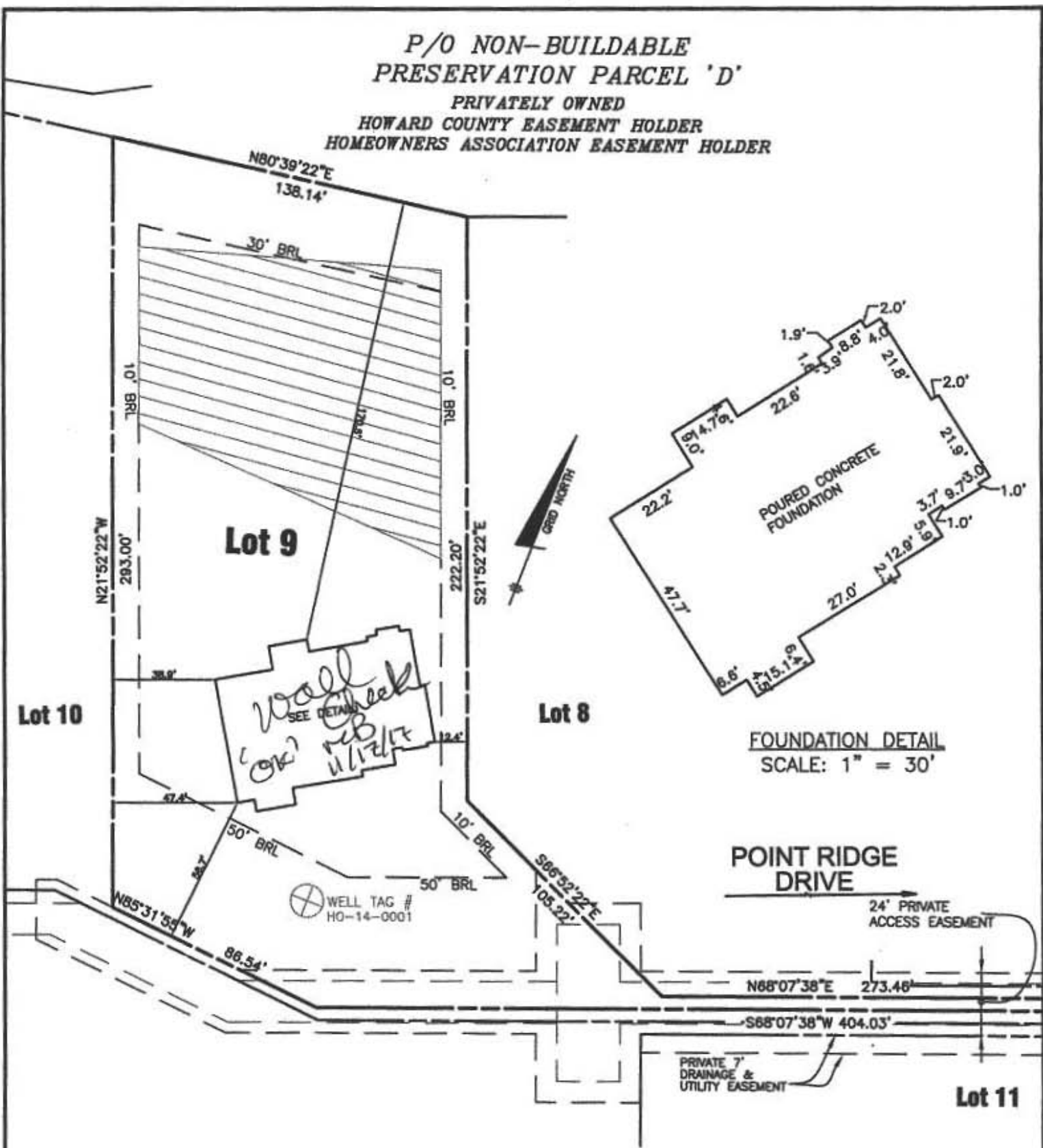
WHEREAS, neither the Owner nor the Health Department has knowledge of an alternative safe source of water for the Property.

NOW THEREFORE, the parties have agreed to the following terms and conditions:

1. The Owner will record this Agreement among the Land Records of Howard County, Maryland and provide confirmation to the Health Dept.
2. The Owner agrees to install and maintain a water treatment device, which effectively reduces the gross alpha, gross beta and radium levels to below their respective MCL's.

20
40
DS

**P/O NON-BUILDABLE
PRESERVATION PARCEL 'D'**
PRIVATELY OWNED
HOWARD COUNTY EASEMENT HOLDER
HOMEOWNERS ASSOCIATION EASEMENT HOLDER



SURVEYOR'S CERTIFICATE

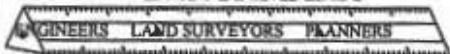
I HEREBY CERTIFY THAT THESE DOCUMENTS, WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21320, EXPIRATION DATE 1-7-2019 AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF, THAT THE DIMENSIONS OF THE BUILDING WALLS SHOWN HEREON ARE CORRECT; THAT THEY ARE BASED ON A FIELD RUN SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC. ON 10/27/2017.

TOP OF FOUNDATION WALL = 431.1'
OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 0.1'

Donald A. Mason
DONALD A. MASON
PROFESSIONAL LAND SURVEYOR
MARYLAND REG. No. 21320

FEMA FIRM No. 24027C01300
ZONE: X
DATED: 11/06/2013

BENCHMARK



ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE SUITE 315
ELLCOTT CITY, MARYLAND 21043
(P) 410-485-8105 & (F) 410-485-8844

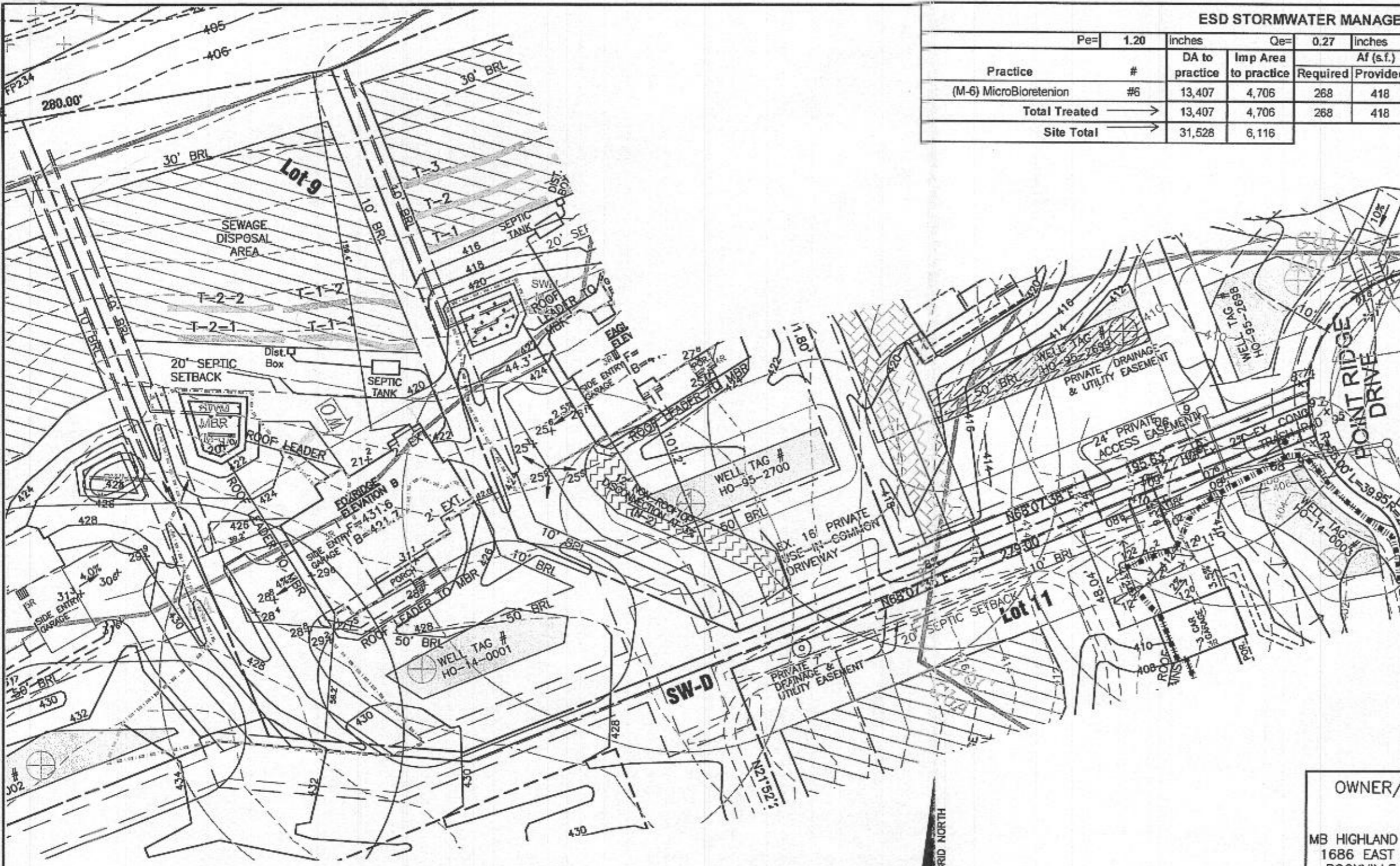
WWW.BE-CMLENGINEERING.COM

WALL CHECK

**REGAN PROPERTY
LOTS 2 THRU 23
PLAT No. 23070
LOT No. 9**

12337 POINT RIDGE DRIVE

5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
FIELD OBS. BY AS
COMP. BY EWF
DRAWN BY EWF SCALE: 1" = 50' DATE: 07/18/2017



ESD STORMWATER MANAGEMENT SUMMARY TABLE												
Practice	#	DA to practice	Imp Area to practice	Pe= 1.20 inches Qe= 0.27 inches ESDv= 708 cf			Rv= 0.22			Ownership		
				Required	Provided	2% DA?	Required	Provided	Pe Provided			
(M-6) MicroBioretention	#6	13,407	4,706	268	418	PASS	736	754	1.2	196	Private	
Total Treated		13,407	4,706	268	418		708	754	1.3	153	196	
Site Total		31,528	6,116									

BUILDING PERMIT PLAN NOTES:

1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR REGAN PROPERTY, PLAT Nos. 23063-23074. REFER TO THE PLATS FOR LOT DIMENSIONS, LOT AREAS, ALL EASEMENTS AND CONDITIONS.
2. SEDIMENT AND EROSION CONTROLS WERE APPROVED BY HOWARD SOIL CONSERVATION DISTRICT UNDER A GRADING PLAN AND MODIFIED FOR THIS SPECIFIC HOUSE.
3. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM THE APPROVED ROAD CONSTRUCTION PLANS AND TOPOGRAPHIC INFORMATION PROVIDED BY BENCHMARK ENGINEERING, INC., ON OR ABOUT JANUARY, 2012.
4. ALL SEDIMENT AND EROSION CONTROL FEATURES USED ON THIS SITE SHALL COMPLY WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
5. ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED ROAD CONSTRUCTION PLANS EXCEPT AS WAIVED.
6. THE EXISTING WELL SHOWN ON THIS PLAN, HO-14-0001, HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC., AND IS ACCURATELY SHOWN.
7. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
8. ANY CHANGES TO A PRIVATE SEWAGE DISPOSAL AREA OR WELL BOX SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
9. STORMWATER MANAGEMENT FOR THIS LOT WAS DESIGNED AND PROVIDED BY ONE MICRO-BIORETENTION FACILITY (MDE M-6), DRY WELL FACILITY (MDE M-5) AND ONE NON-ROOFTOP DISCONNECTION (MDE N-2).
10. MICRO-BIORETENTION SHALL HAVE EITHER A 4" OR 6" ROOF LEADER DEPENDING ON ROOF-TOP AREA.

NOTE:
UNLESS OTHERWISE NOTED, THE FIRST RUN OF PVC ROOF LEADER SHALL BE 4" AND SHALL INCREASE TO AT LEAST 6" AFTER ANY CONFLUENCE OF 4" PIPES.

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. 45577, Expiration Date: 06-08-2018.



8/21/17

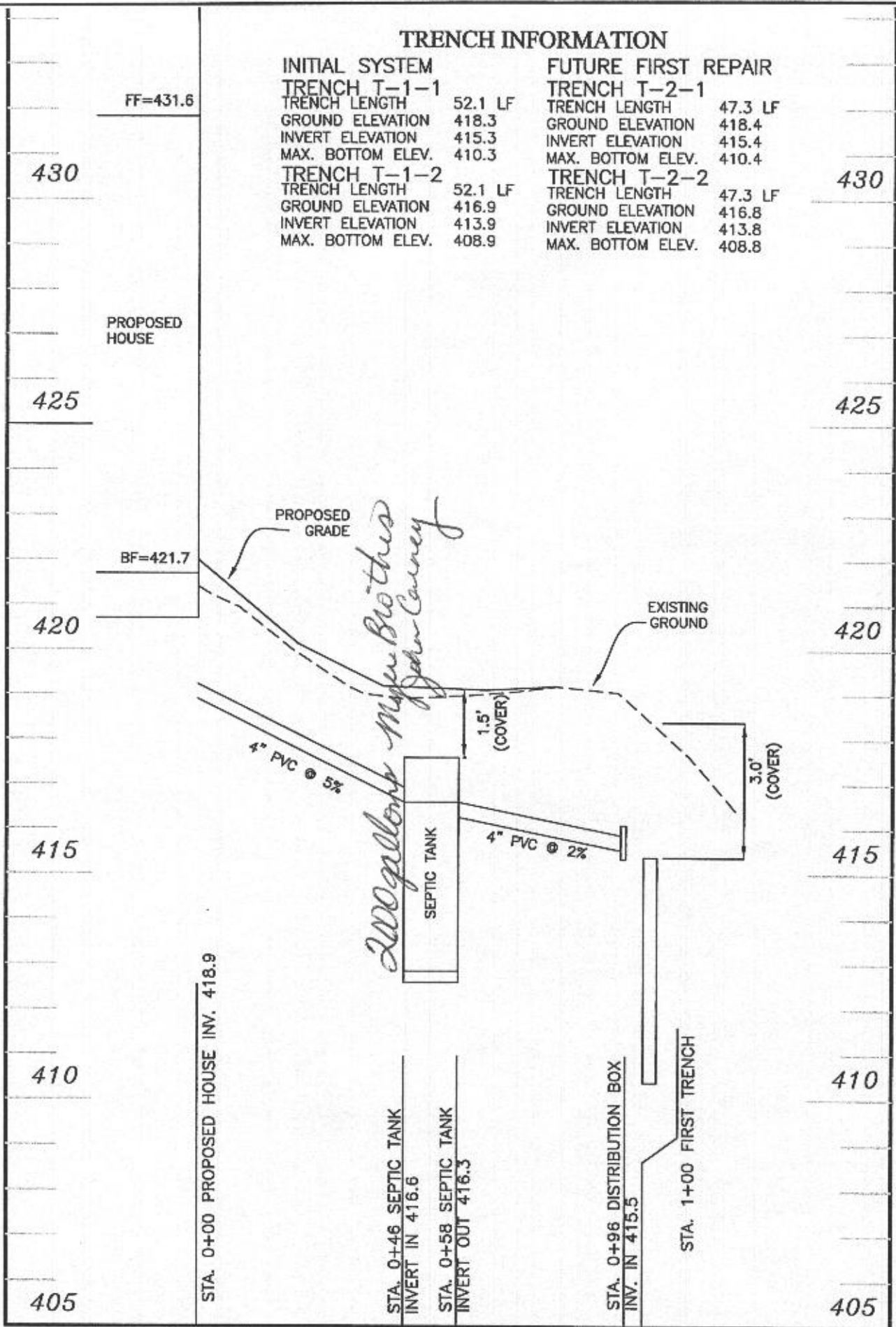
PLAN VIEW
1" = 50'



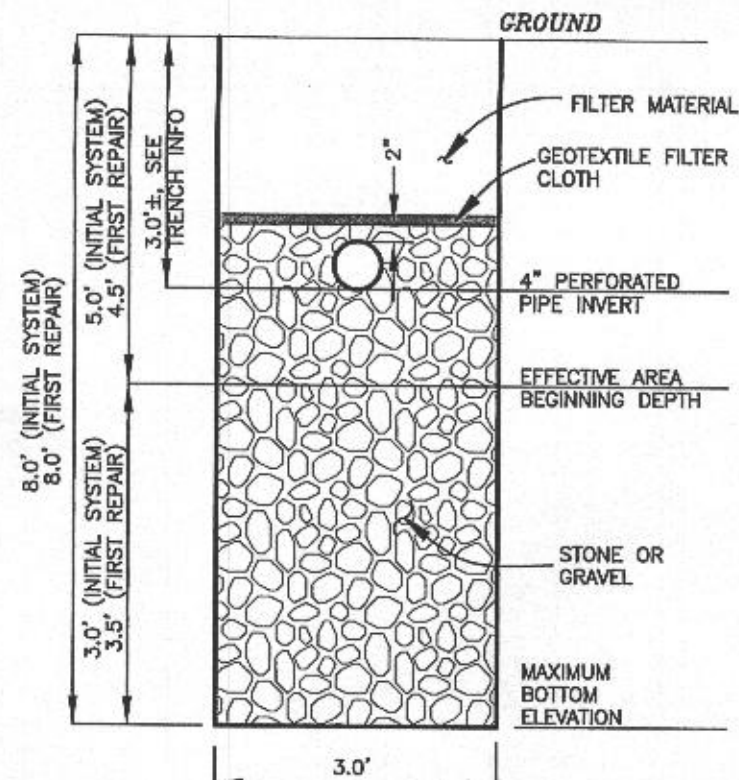
OWNER/BUILDER:	BENCHMARK ENGINEERS LAND SURVEYORS PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE & SUITE 315 ELICOTT CITY, MARYLAND 21043 (P) 410-465-6105 & (F) 410-465-6844 WWW.BEI-CVLENGINEERING.COM	
PROJECT:	REGAN PROPERTY LOT 9	
LOCATION:	12337 POINT RIDGE DRIVE HIGHLAND, MD 20777 TAX MAP No. 34 - BLOCK No. 24 - PARCEL No. 200 5TH ELECTION DISTRICT, TAX ID NUMBER: 05 597442	
TITLE:	SEPTIC PERMIT PLAN	
HOUSE TYPE:	FOX RIDGE - ELEVATION B	
DATE:	AUGUST, 2017	PROJECT NO. 2171
SCALE:	AS SHOWN	DRAWING 1 OF 2

TRENCH INFORMATION

INITIAL SYSTEM		FUTURE FIRST REPAIR	
TRENCH T-1-1		TRENCH T-2-1	
TRENCH LENGTH	52.1 LF	TRENCH LENGTH	47.3 LF
GROUND ELEVATION	418.3	GROUND ELEVATION	418.4
INVERT ELEVATION	415.3	INVERT ELEVATION	415.4
MAX. BOTTOM ELEV.	410.3	MAX. BOTTOM ELEV.	410.4
TRENCH T-1-2		TRENCH T-2-2	
TRENCH LENGTH	52.1 LF	TRENCH LENGTH	47.3 LF
GROUND ELEVATION	416.9	GROUND ELEVATION	416.8
INVERT ELEVATION	413.9	INVERT ELEVATION	413.8
MAX. BOTTOM ELEV.	408.9	MAX. BOTTOM ELEV.	408.8



SEWER PROFILE - LOT 9
SCALE: VERTICAL 1"=3', HORIZONTAL 1"=30'



TYPICAL TRENCH DETAIL

NOT TO SCALE

INITIAL SYSTEM		
Number of Bedrooms	5	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	5	ft
Bottom Max Depth	8	ft
Design Flow	750	gpd
Drainage Field square footage	625	sf
Sidewall reduction credit	0.50	
Trench width	3	
Effective Area Depth	3	
Linear Length of trench Required	104	lf

1st REPLACEMENT SYSTEM		
Number of Bedrooms	5	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	4.5	ft
Bottom Max Depth	8	ft
Design Flow	750	gpd
Drainage Field square footage	625	sf
Sidewall reduction credit	0.45	
Trench width	3	
Effective Area Depth	3.5	
Linear Length of trench Required	95	lf

THIS PLAN IS FOR SEPTIC DESIGN ONLY

SEE MANUFACTURERS SPECIFICATIONS FOR DETAILS. WWW.MAYERPRECAST.COM EQUIVALENT FROM OTHER MANUFACTURERS CAN BE SUBSTITUTED.

SIGNATURE AND SEAL ARE FOR SEPTIC PROFILE AND CALCULATIONS ONLY, TANK AND DETAILS WERE NOT DESIGNED OR REVIEWED BY THE ENGINEER:

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. 45577, Expiration Date: 06-08-2018.



OWNER/BUILDER:	BENCHMARK ENGINEERS, LAND SURVEYORS, PLANNERS	
MB HIGHLAND RESERVE, LLC 1686 EAST GUDE DRIVE ROCKVILLE, MD 20850 301-762-9511	ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE SUITE 315 ELLICOTT CITY, MARYLAND 21043 (P) 410-465-6105 & (F) 410-465-6644 WWW.BEI-CVLENGINEERING.COM	
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TITLE:	SEPTIC PERMIT PLAN	
HOUSE TYPE:	FOXBRIDGE - ELEVATION B	
DATE:	AUGUST, 2017	PROJECT NO. 2171
SCALE:	AS SHOWN	DRAWING 2 OF 2