



Howard County
Health Department

Bureau of Environmental Health
7178 Gateway Drive Columbia, MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

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

RECEIPT DATE: 8-26-14 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 554600

INSTALLATION
APPROVAL DATE: 9/30/2014

**PERMIT
CONSTRUCTION**

A _____

PROPERTY ADDRESS: 6275 Heather Glen Way

SUBDIVISION: Preserve at Clarksville LOT: 18 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: Compass Homes EMAIL: _____

OWNER ADDRESS: 6206 Heather Glen Way, Clarksville, MD 21029 PHONE: _____

BAT UNIT MODEL: Norweco TNTLP BAT UNIT SIZE: 600GPD

PUMP CHAMBER CAPACITY (GALLONS): _____ PUMP SIZE: _____

NUMBER OF BEDROOMS: 5 HOUSE SQ. FT. _____ APPLICATION RATE: 0.8

DISTRIBUTION SYSTEM: GRAVITY FED LOW PRESSURE DOSED

TRENCHES:	LINEAR FEET REQUIRED: <u>SEE BAT PLAN</u>	INLET DEPTH: <u>SEE BAT PLAN</u>
	TRENCH WIDTH: <u>SEE BAT PLAN</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>SEE BAT PLAN</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>6</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:	Set BAT unit per plan.	

ISSUED BY: Jeff Williams ISSUE DATE: 8-26-14 EXPIRATION DATE: 8-26-15

- 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 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

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 As-Built Drawing
On Separate Sheet

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	4'-5.5'	8'-9.5'
NUMBER OF TRENCHES 2		
TOTAL LENGTH 200'		
ABSORPTION AREA 400+ Sidewall		
DISTRIBUTION BOX LEVEL Levelers		
DISTRIBUTION BOX BAFFLE Yes		
DISTRIBUTION BOX PORT Yes		

SEPTIC TANK DATA

SEPTIC TANK I LEVEL	Yes
MANUFACTURER	Beck Pines
CAPACITY	Single-TNT GAL
SEAM LOC	Top
TANK LID DEPTH	3'
BAFFLES	no
BAFFLE FILTER	Yes
MANHOLE LOC	Front/Centr/Rear
6" PORT LOC	none
WATERTIGHT TEST	No
SLOTTED	Yes
DATE ON LID	8/29/2014

~~PUMP/SEPTIC TANK LEVEL N/A~~

MANUFACTURER	
CAPACITY	GAL
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

PRE-CONSTRUCTION

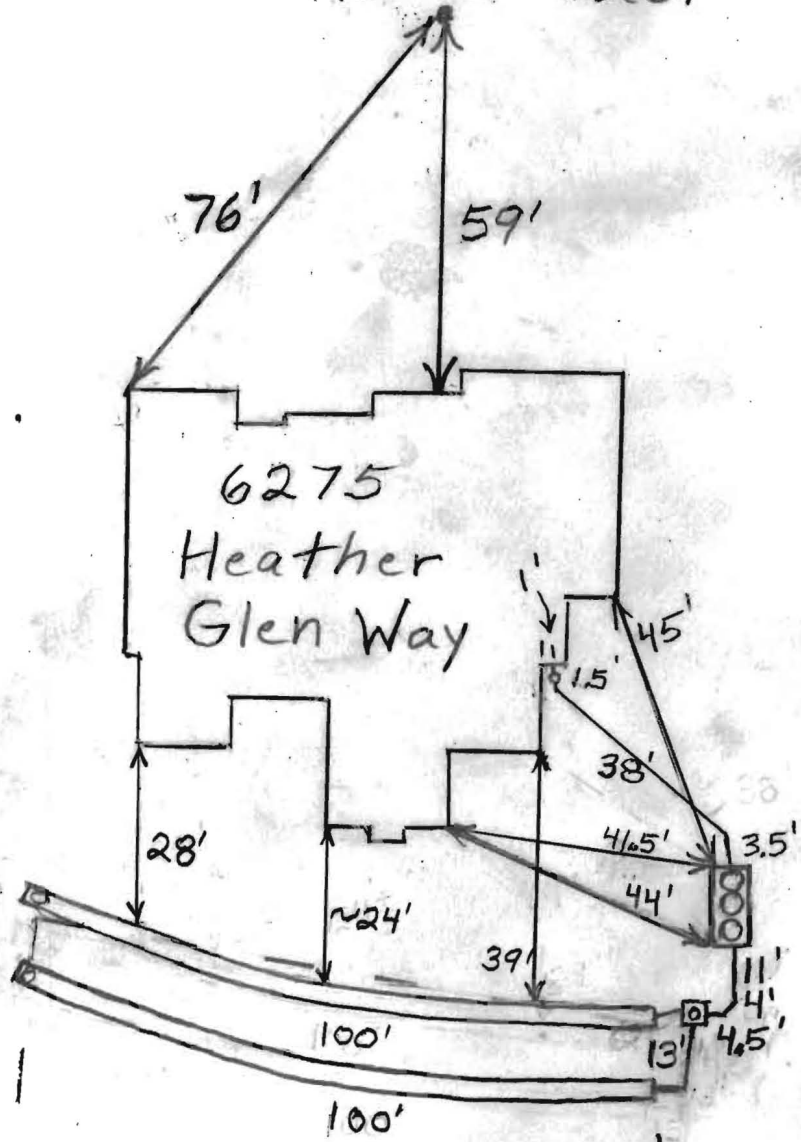
9/24/2014 Easement topography is wrong. Three trenches laid out close to contour from front to back of easement. Use laser level to install trenches with a level bottom. Install tank per plan location. (BB) 9/26/14 Area excavated (upper left corner of SRA) found 12" of fill. Re-set contour, Install 2x97' trench

INSTALLATION:

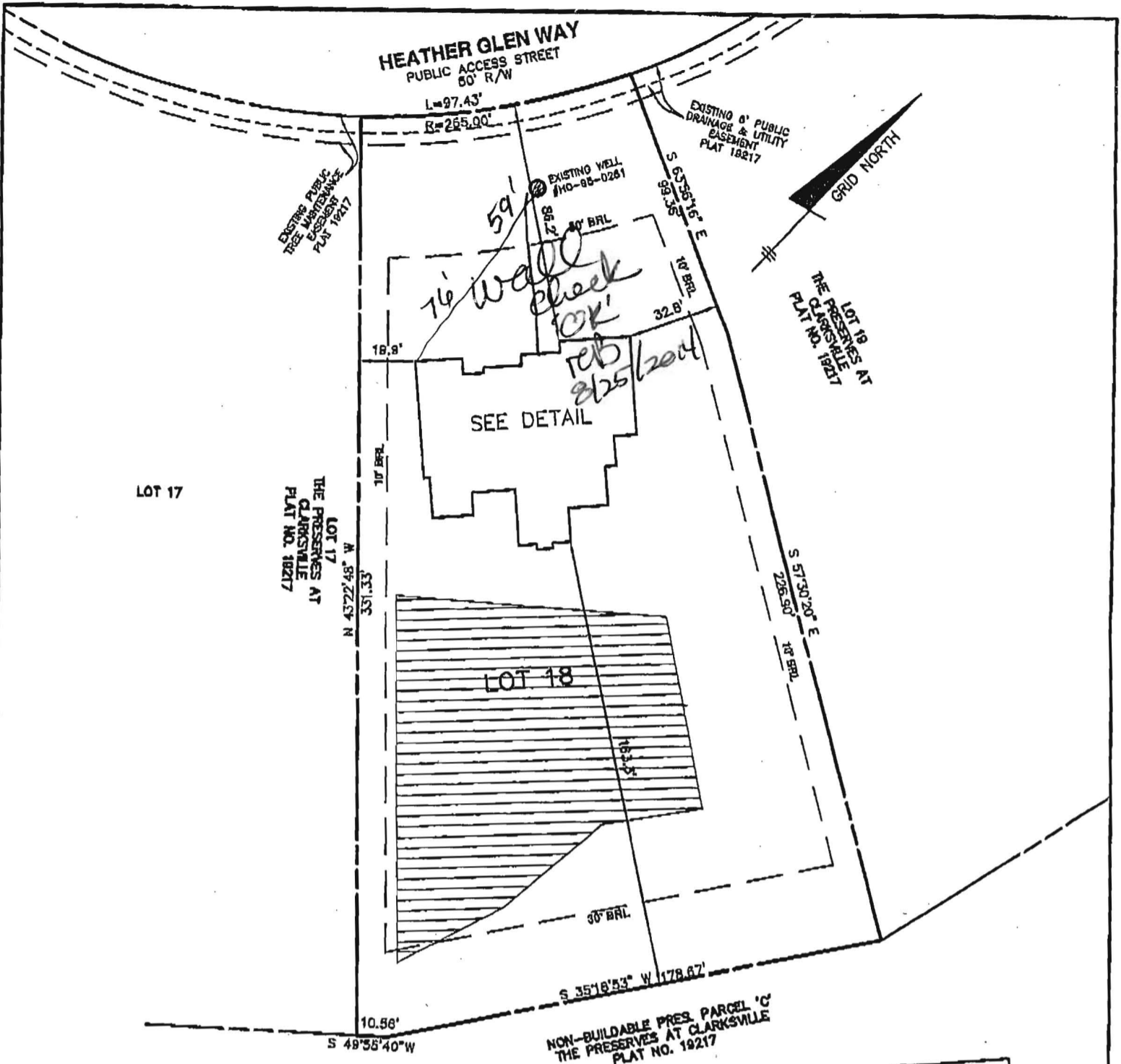
cross top SRA using stakes to stake. BAT unit set (BB) 9/29/2014 Trenches/system finished. Need approval from BAT inspector. (BB) 9/30/2014 Received approval from BAT manufacturer. (BB)

FINAL INSPECTOR B. Baper DATE OF APPROVAL 9/30/2014

HO-95-0261




6275
Heather
Glen Way

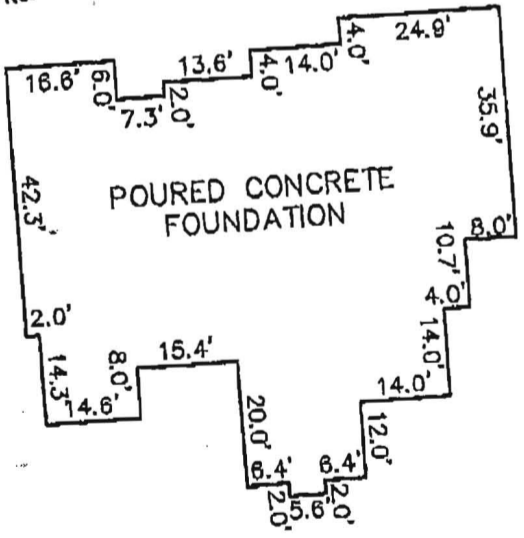


TOP OF FOUNDATION WALL ELEVATION = 423.6'
OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 0.1'

SURVEYOR'S CERTIFICATE

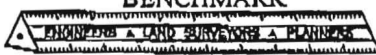
I HEREBY CERTIFY THAT THESE DOCUMENTS, WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21320, EXPIRATION DATE 1-7-2015 AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF, THAT THE DIMENSIONS OF THE BUILDING WALLS SHOWN HEREON ARE CORRECT; THAT THEY WERE BASED ON A FIELD RUN SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC. ON 06/13/14.


 DONALD A. MASON
 PROFESSIONAL LAND SURVEYOR
 MD REG. No. 21320
 FOR BENCHMARK ENGINEERING, INC.
 MD REG. No. 351
 FEMA FIRM No. 24027C0130D
 ZONE: X
 DATED: 11/06/2013



FOUNDATION DETAIL
SCALE: 1" = 30'

WALL CHECK
THE PRESERVE AT CLARKSVILLE
LOTS 1-32
PLAT No. 19217
LOT No. 18
6275 HEATHER GLEN WAY

BENCHMARK

ENGINEERING, INC.
 8480 BALTIMORE NATIONAL PIKE & SUITE 315
 ELLICOTT CITY, MARYLAND 21043
 phone: 410-485-6105 • fax: 410-485-8644
 www.bei-onlineengineering.com

FIELD OBS. BY DH&AIS
 COMP. BY EWF
 DRAWN BY EWF
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: 1" = 50' DATE: 06/13/14



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

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

**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 Hee Jung & Hyungsuk Kim ("Owner").

WHEREAS, the Owner owns a tract of land at street address 6275 Heather Glen Way, Clarksville Md and the deed and subdivision plat of the property is recorded among the Land Records of Howard County, Maryland, Tax Map # 0034 Block # , Parcel # 0077 Deed Reference # 15236/00041 and Tax Account # 448417 ("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 HO-95-0239 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:


HJK / KHS

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. The Health Department shall verify that the treatment device is operating effectively and the Owner agrees to allow access to the Health Department to collect a follow-up sample(s).
3. The Health Department shall issue a Certificate of Potability for the well once follow-up sampling shows acceptable gross alpha, gross beta (short and long term) and radium 226 / 228 levels.
4. The Owner agrees that there shall be no liability on part of the Health Department for any immediate or long term impacts to health or property, under any circumstance or including, but not limited to, treatment device failure, improper maintenance or installation, or defect. The Health Department does not warranty or guarantee that the device will adequately or properly function and the Owner agrees to implement and pay for any necessary changes or corrections.
5. The Owner acknowledges and agrees that neither the Health Department nor any of its agents or employees, either officially or individually, underwrites the operation of any system or treatment device.
6. This Agreement shall not be construed to limit any authority of the Health Department to protect the public health, safety or enjoyment of property or to issue any other orders to take any other action, which is now or may hereafter be within its authority.
7. This agreement contains the entire agreement and understanding between the Health Department 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 their authorized representatives.
8. The Agreement shall run with the land and binds the Owner, his heirs, successors, and assigns. The owner agrees to provide a copy of this agreement to any purchaser or lessee of the property.
9. The laws of the State of Maryland govern the provisions of all transactions.

The parties have signed and sealed this Agreement on the dates set forth below.

	3/8/14		3/8/14
Owner Heejung Kim	Date	Witness	Date

	3/8/14		3/8/14
Owner Hyungsuk Kim	Date	Witness	Date

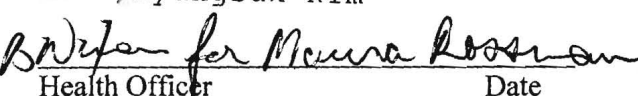
 3/19/2014
 Health Officer Date
 BERT NIXON

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Owner Heejung Kim	Date	Witness	Date

	3/8/14		3/8/14
Owner Hyungsuk Kim	Date	Witness	Date

	3/19/2014
Health Officer BERT NIXON	Date

Follow Up Flag:
Flag Status:

Follow up
Flagged

LIBER 15505 FOLIO 085

Below is the data from our spreadsheet. Looks like a few lots are missing. Note that our action levels are 15 (including the DOE or Degree of Error) for Alpha and 50 for Beta. None of the Beta levels are high, but the alpha levels are elevated at lots 6,8,15,17,18,20,23,24,26,27.

Owner		Lot	Sample date	Gross Alpha	Alpha DOE	Gross Beta	Beta DOE
D.R. Horton	Turnberry Grove	8	3/28/2006	13.7	1.3	10.6	0.9
D.R. Horton	Turnberry Grove	9	3/29/2006	11.3	0.8	11.7	0.6
D.R. Horton	Turnberry Grove	10	3/14/2006	9.5	1.1	5.8	0.9
D.R. Horton	Turnberry Grove	12	3/9/2006	8.8	1	11.7	1
D.R. Horton	Turnberry Grove	13	3/8/2006	7.8	1	11.6	1
D.R. Horton	Turnberry Grove	14	4/4/2006	3.5	0.4	4.9	0.5
D.R. Horton	Turnberry Grove	16	3/16/2006	9.3	1	8.5	0.9
D.R. Horton	Turnberry Grove	17	3/21/2006	17.7	1.4	16.3	1
D.R. Horton	Turnberry Grove *	18	4/24/2006	22.8	1.1	17.5	0.8
D.R. Horton	Turnberry Grove	19	3/31/2006	7.6	1.9	12	1.9
D.R. Horton	Turnberry Grove	20	4/3/2006	21.1	3	17.7	2
D.R. Horton	Turnberry Grove	21	3/30/2006	3.8	0.6	7.7	0.7
D.R. Horton	Turnberry Grove	22	3/27/2006	1.9	0.6	4.8	0.7
D.R. Horton	Turnberry Grove	28	3/24/2006	1.3	1	5.1	1.5
P.P. A	Turnberry Grove	PP.A	4/6/2006	-0.004	0.2	3.2	0.6
D.R. Horton	Turnbury Grove *	15	3/20/2006	17.8	2.1	18.8	1.6
D.R. Horton	Turnbury Grove	23	3/7/2006	24.1	2.7	16.5	1.7
D.R. Horton	Turnbury Grove	2	2/15/2006	1.8	0.5	4.2	0.6
D.R. Horton	Turnbury Grove	3	2/15/2006	5	0.8	4.5	0.7
D.R. Horton	Turnbury Grove	6	2/21/2006	14	1.4	11.4	1
D.R. Horton	Turnbury Grove	7	2/22/2006	6	0.9	8	0.8
D.R. Horton	Turnbury Grove	24	3/6/2006	40.8	2.8	20.7	1.4
D.R. Horton	Turnbury Grove	26	3/2/2006	36.8	6.8	14.4	1.1
D.R. Horton	Turnbury Grove *	27	3/1/2006	15.7	1.3	12.3	0.9
D.R. Horton	Turnbury Grove	30	2/28/2006	3.1	1.2	4.7	1.3
D.R. Horton	Turnbury Grove	31	2/27/2006	6	1.4	7	1.4
D.R. Horton	Turnbury Grove	32	2/23/2006	7.6	1	12.3	1

29

5

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

* LOT REQUIRES CARBON FILTER SYSTEM
LOTS 5 + 29 NOT TESTED.

HJK + KHS

LR - Agreement 20.00
Recording Fee 20.00
Grantor/Grantee Name: Kim
Reference/Control #: 142
LR - Agreement Surcharge 40.00
Subtotal: 80.00
Total: 120.00
#2573554-5
03/19/2014 12:24 C018-05
#2573554 C00503 -
Howard Co
Columbia/CG05.03.04 -
Register 04 498

Back River Pre-Cast, LLC

PO BOX 329
Glyndon, MD 21071
Phone # 410-833-3394
Fax # 410-833-4116

Letter of Certification

This is to certify that the Norweco Singulair TNT 600 GPD Septic Tank installed at 6275 Heather Glen Way, Clarksville, MD 21029 September 25, 2014 was installed according to the manufacture's specifications.

Installer: Jeff Reiter



MATTHEW GECKLE

Vice-President

Back River Pre-Cast, LLC

PO BOX 329
Glyndon, MD 21071
Phone # 410-833-3394
Fax # 410-833-4116

Letter of Certification

This is to certify that the Norweco Singlair TNT 600 GPD Septic Tank installed at 6275 Heather Glen Way, Clarksville, MD 21029 September 25, 2014 was installed according to the manufacture's specifications.

Installer: Jeff Reiter

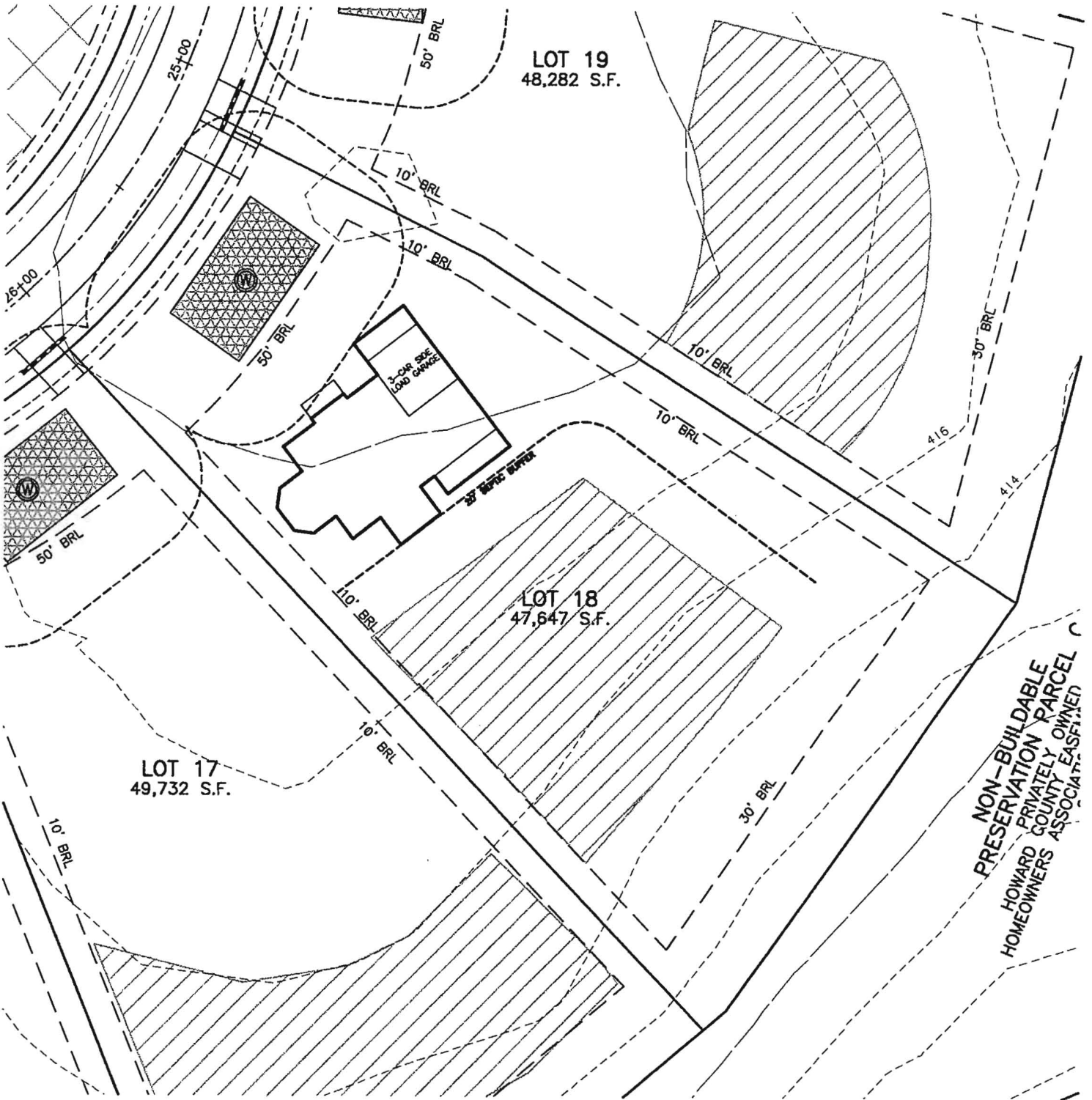


MATTHEW GECKLE

Vice-President

Pres. @ Clerks

- front bumpout is an open porch, no pond. can be within 30' to well. See 5/31/13



Williams, Jeffrey

From: Williams, Jeffrey
Sent: Thursday, April 10, 2014 12:11 PM
To: 'David Thompson'
Subject: Preserve at Clarksville lot 18

I know we discussed this on other lots, but we have a BAT plan for lot 18, pres. at clarksville with no trench design.

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

CONFIDENTIALITY NOTICE

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NOTES:

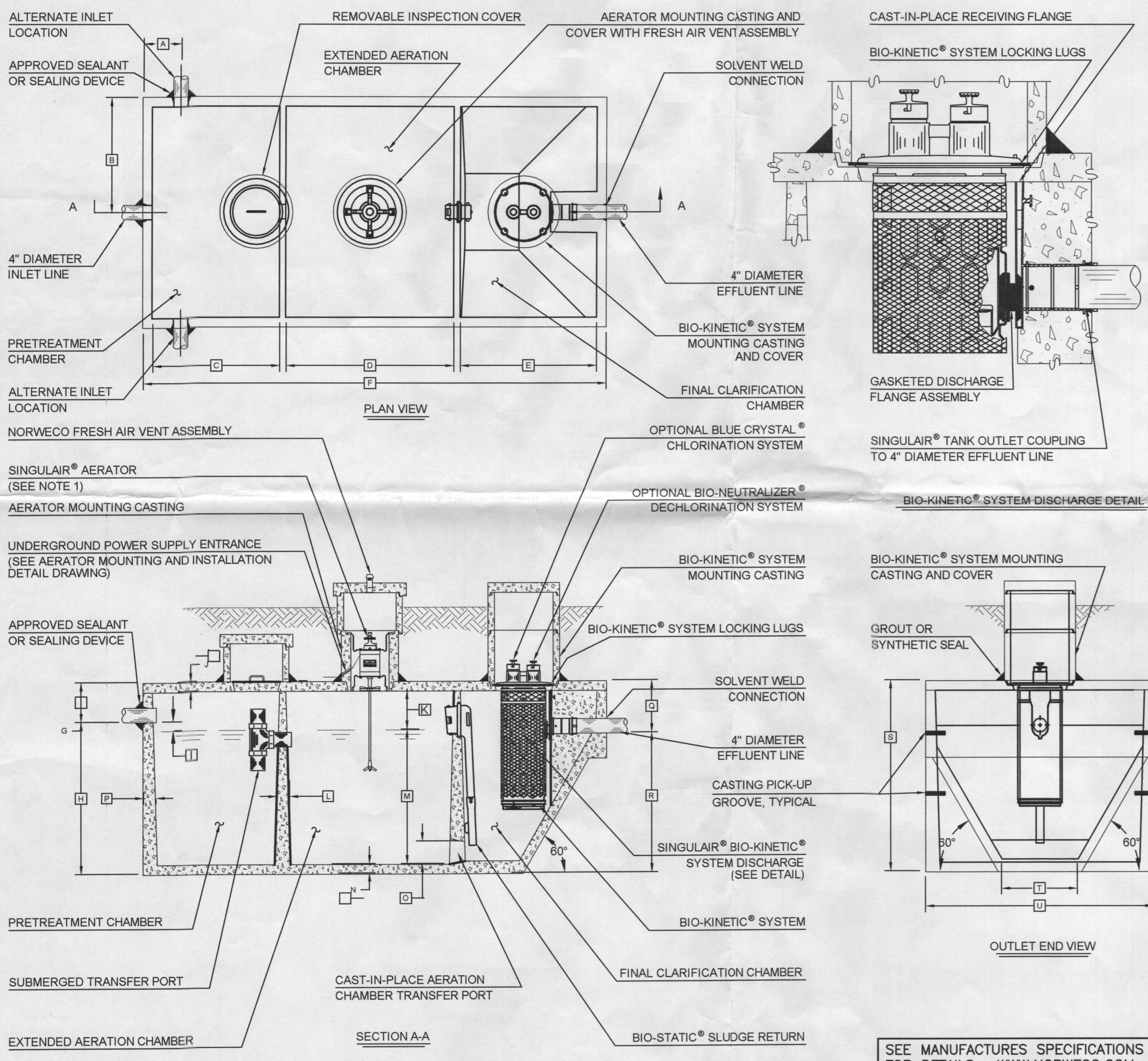
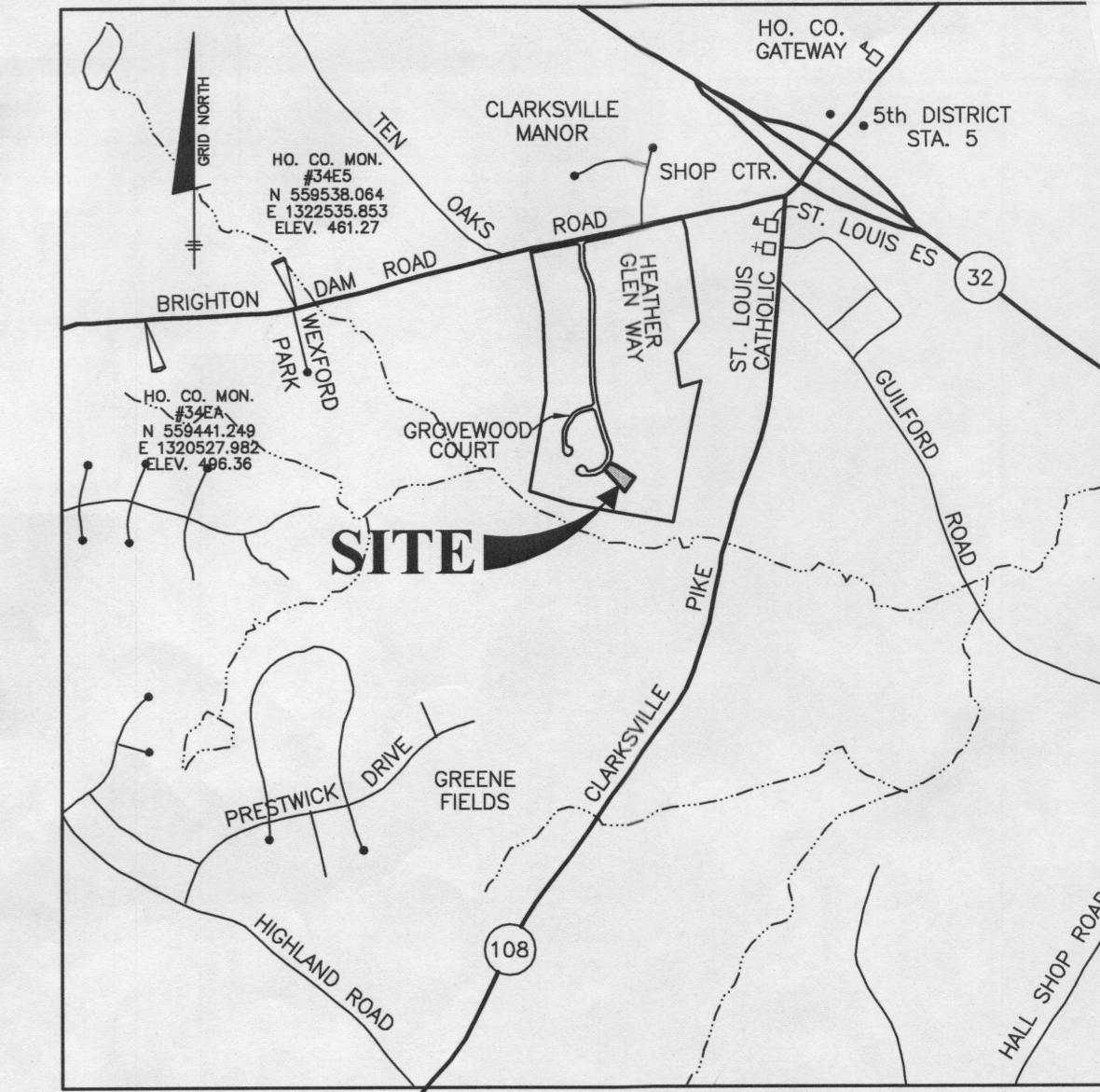
1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
2. THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 3 FEET.
3. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
4. THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
5. WITHIN ONE (1) MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) IN A MANNER ACCEPTABLE TO MDE, THE ADDRESS AND DATE OF COMPLETION OF THE BAT INSTALLATION AND THE TYPE OF BAT INSTALLED.
6. ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
7. AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OF HOWARD COUNTY.
8. THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.

LEGEND

---	BOUNDARY
---	EXISTING TOPOGRAPHY
▨	SEWAGE DISPOSAL AREA
---	INITIAL TRENCH SYSTEM
▨	1st REPLACEMENT SYSTEM
▨	1,500 SF WELLBOX
⊙	WELL LOCATION
●	PASSED TEST HOLE TESTED APRIL / MAY 2003
○	FAILED TEST HOLE TESTED APRIL / MAY 2003
●	PASSED TEST HOLE TESTED JANUARY / FEB 2004
○	FAILED TEST HOLE TESTED JANUARY / FEB 2004
●	PASSED TEST HOLE TESTED JUNE 2004
○	FAILED TEST HOLE TESTED JUNE 2004
●	PASSED TEST HOLE TESTED AUGUST 2004
⬆	SOILS CLASSIFICATION
---	SOILS DELINEATION LINE

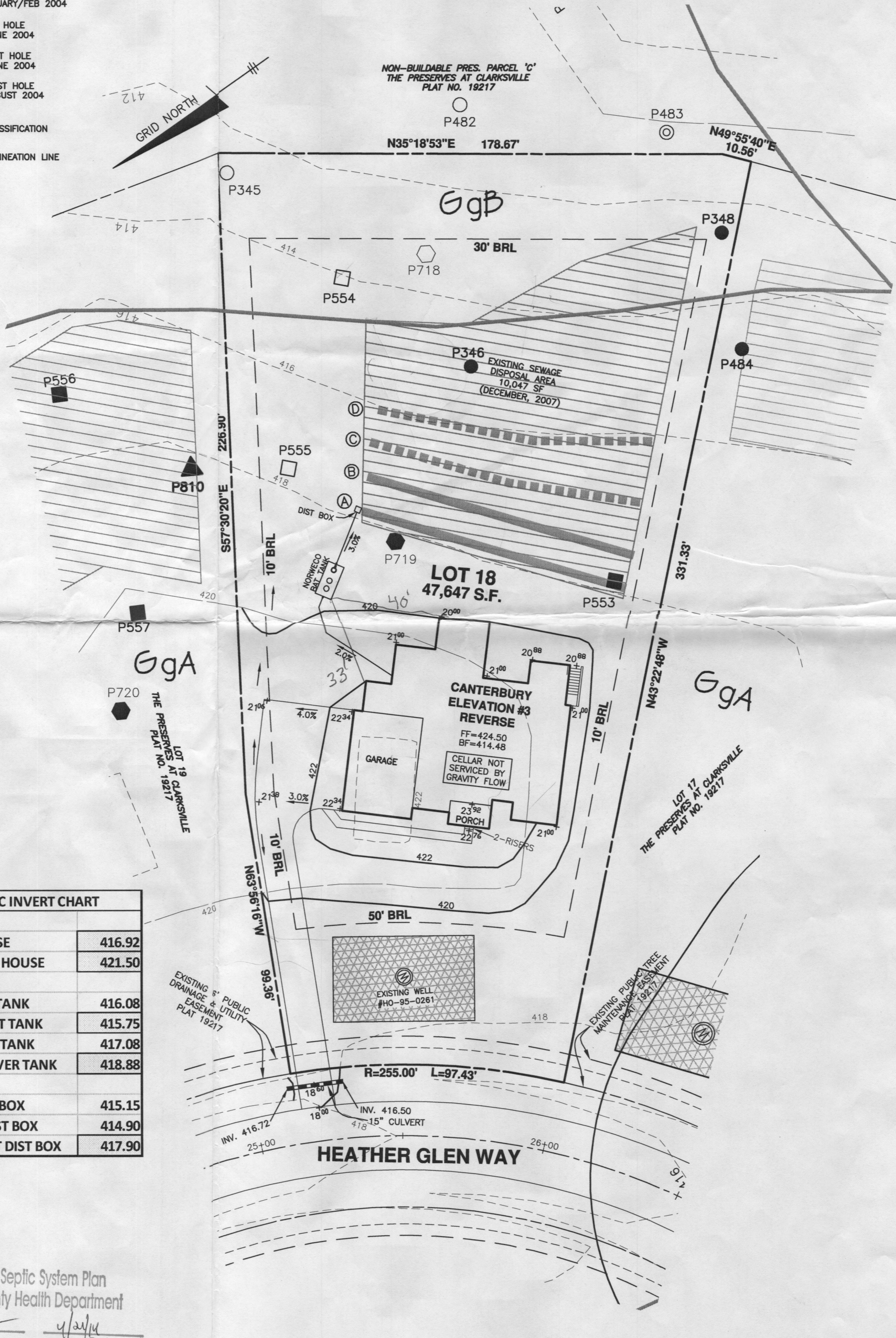
NRCS SOILS CHART

SYMBOL	HYDRIC	HYDROLOGIC GROUP	ALTERNATE GROUP	NAME
GgA		B		GLENELG LOAM, 0 TO 3 PERCENT SLOPES
GgB		B		GLENELG LOAM, 3 TO 8 PERCENT SLOPES



SEPTIC INVERT CHART

INV @ HOUSE	416.92
GROUND @ HOUSE	421.50
INV IN BAT TANK	416.08
INV OUT BAT TANK	415.75
TOP OF BAT TANK	417.08
GROUND OVER TANK	418.88
INV IN DIST BOX	415.15
INV OUT DIST BOX	414.90
GROUND AT DIST BOX	417.90



INITIAL SYSTEM

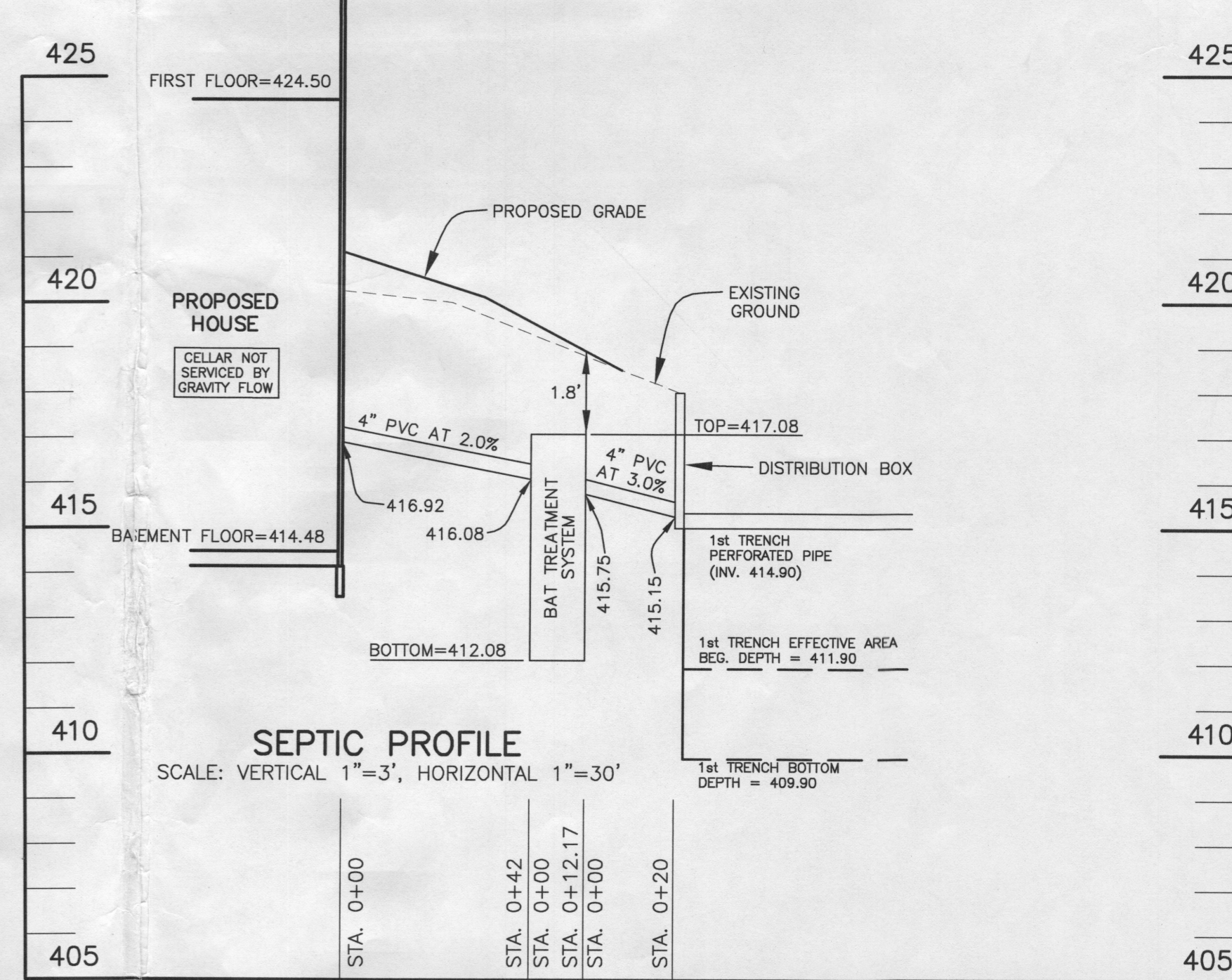
Number of Bedrooms	5
Application Rate	0.8 gpd/sf
Effective Area Beginning Depth	6 ft
Bottom Max Depth	8 ft
Design Flow	750 gpd
Drainage Field square footage	937.5 sf
Sidewall reduction credit	0.63
Trench width	3
Effective Area Depth	2
Linear Length of trench Required	195 lf

1st REPLACEMENT SYSTEM

Number of Bedrooms	5
Application Rate	0.8 gpd/sf
Effective Area Beginning Depth	6 ft
Bottom Max Depth	8 ft
Design Flow	750 gpd
Drainage Field square footage	937.5 sf
Sidewall reduction credit	0.63
Trench width	3
Effective Area Depth	2
Linear Length of trench Required	195 lf

TRENCH INFORMATION

Ⓐ	TRENCH LENGTH	98 LF
	GROUND ELEVATION	417.9
	INVERT ELEVATION	414.9
	MAX BOTTOM ELEV	409.9
Ⓑ	TRENCH LENGTH	98 LF
	GROUND ELEVATION	417.3
	INVERT ELEVATION	414.3
	MAX BOTTOM ELEV	409.3
Ⓒ	TRENCH LENGTH	98 LF
	GROUND ELEVATION	416.8
	INVERT ELEVATION	413.8
	MAX BOTTOM ELEV	408.8
Ⓓ	TRENCH LENGTH	98 LF
	GROUND ELEVATION	416.0
	INVERT ELEVATION	413.0
	MAX BOTTOM ELEV	408.0

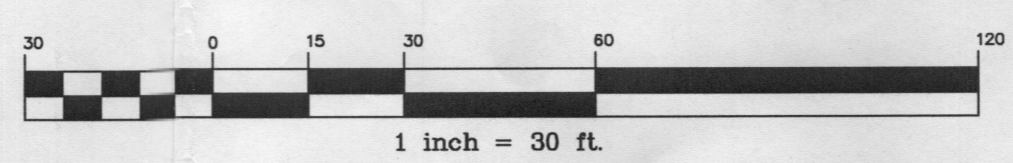


CRITICAL DIMENSIONS

A	1'-0"	N	0'-3"
B	3'-0"	O	0'-6"
C	3'-4"	P	0'-3"
D	4'-5"	Q	1'-4"
E	3'-7"	R	3'-8"
F	12'-2"	S	5'-0"
G	1'-0"	T	2'-0"
H	4'-0"	U	6'-0"
I	0'-3"	V	
J	0'-3"	W	
K	1'-0"	X	
L	0'-2"	Y	
M	3'-6"	Z	

norweco 3-28-07 B
 U.S. AND FOREIGN PATENTS PENDING
 LOW-PROFILE SINGULAR® BIO-KINETIC® WASTEWATER TREATMENT SYSTEM MODEL: THTL-600 GPD
 © MMV
 BDS
 JMM
 10-16-08
 NTS
 PC-57091

Approved Septic System Plan
 Howard County Health Department
 Signature: [Signature] Date: 4/11/14



I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DAVID THOMPSON
 4/11/2014

NOTES: TOTAL SYSTEM CAPACITY: 1,300 GALLONS
 RATED CAPACITY: 600 GALLONS PER DAY PER MANUFACTURER.
 ABLE TO SERVICE UP TO FIVE (5) BEDROOMS.

BENCHMARK ENGINEERING, INC.
 8480 BALTIMORE NATIONAL PIKE & SUITE 315 A ELICOTT CITY, MARYLAND 21043
 (P) 410-465-8105 (F) 410-465-8844
 WWW.BE-CIVILENGINEERING.COM

THE PRESERVE AT CLARKSVILLE LOT 18
 6275 HEATHER GLEN WAY CLARKSVILLE, MARYLAND 21029
 TAX MAP: 34 GRID: 11 PARCEL: 77
 ZONED: RC-DEO ELECTION DISTRICT NO. 5

SITE PLAN FOR BAT INSTALLATION

DATE: APRIL 11, 2014 BEI PROJECT NO: 1407-W
 SCALE: AS SHOWN SHEET 1 OF 1

DESIGN: DBT DRAWN: DBT