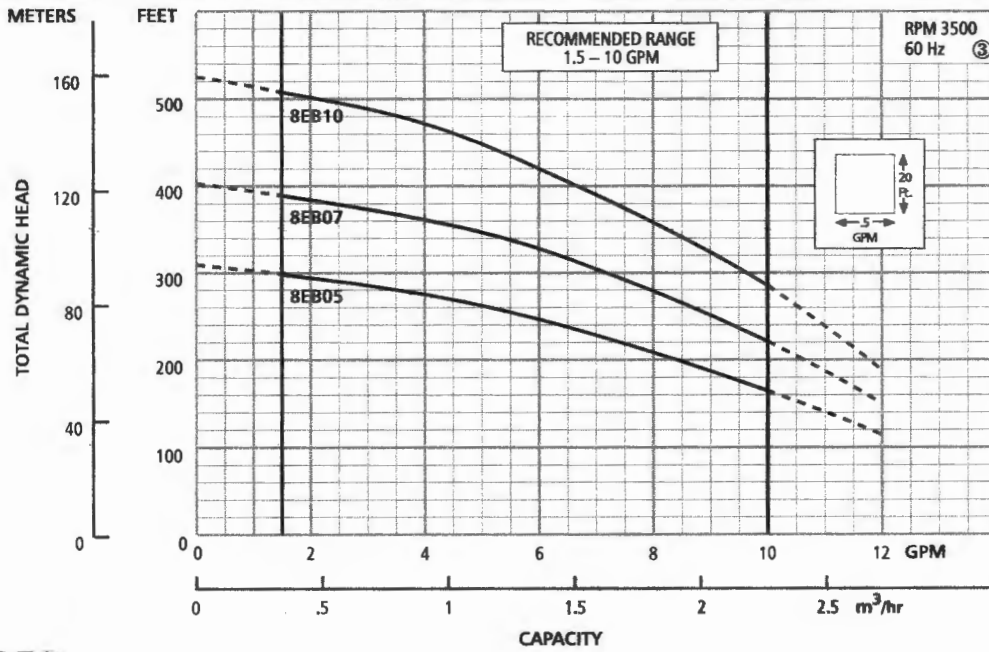
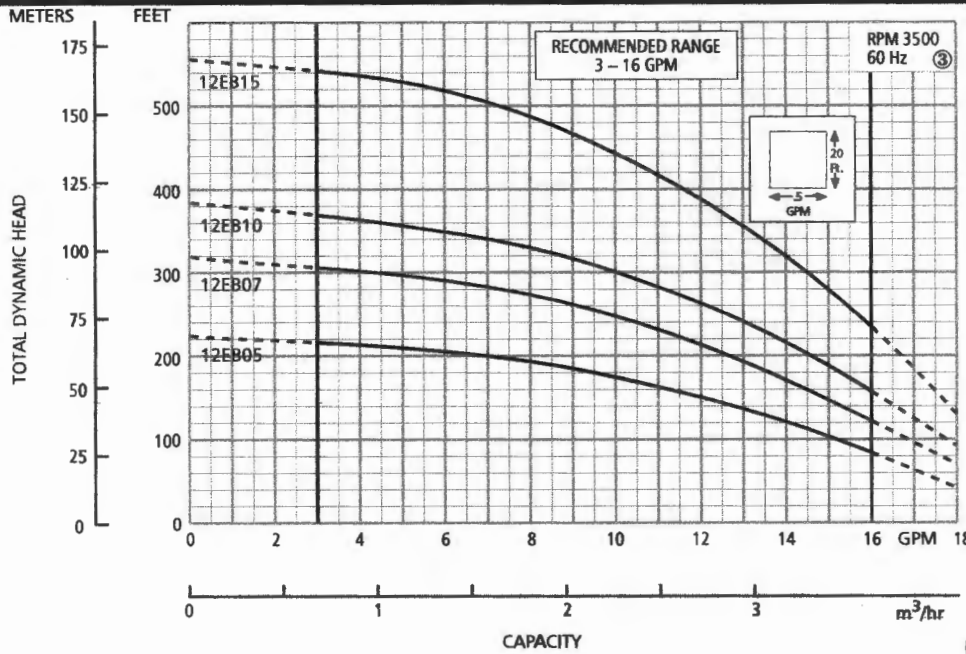


Model 8EB



Model 12EB



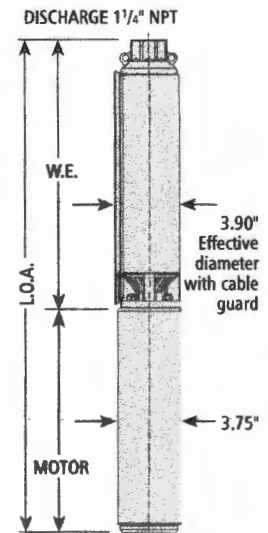
DIMENSIONS AND WEIGHTS

Order Number	HP	Phase	Stages	Length (inches)			Weight (lbs.)		
				W.E.①	Motor	L.O.A.②	W.E.	Motor	Total
8EB0522J, 8EB0521J	1/2	1	10	13.3	9.5	22.8	5	18	23
8EB0722J	3/4	1	13	15.4	10.7	26.1	6	20	26
8EB1022J	1	1	17	18.3	11.8	30.1	8	23	31
12EB0522J, 12EB0521J	1/2	1	7	11.0	9.5	20.5	4	18	22
12EB0722J	3/4	1	10	13.0	10.7	23.7	5	20	25
12EB1022J	1	1	12	14.4	11.8	26.2	6	23	29
12EB1522J	1 1/2	1	17	17.9	15.1	33.0	8	31	39

① W.E. = water end or pump without motor.

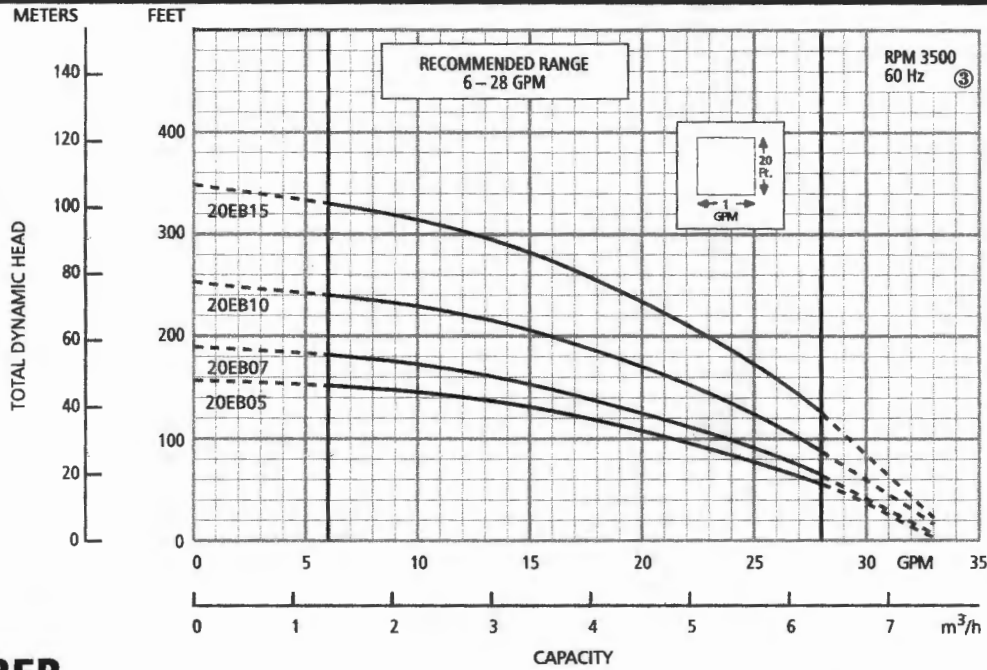
② L.O.A. = length of assembly - complete pump - water end and motor.

③ Performance curves are based on running pumps without 1/8" discharge head weep hole. Actual performance will be slightly lower unless weep hole is plugged.

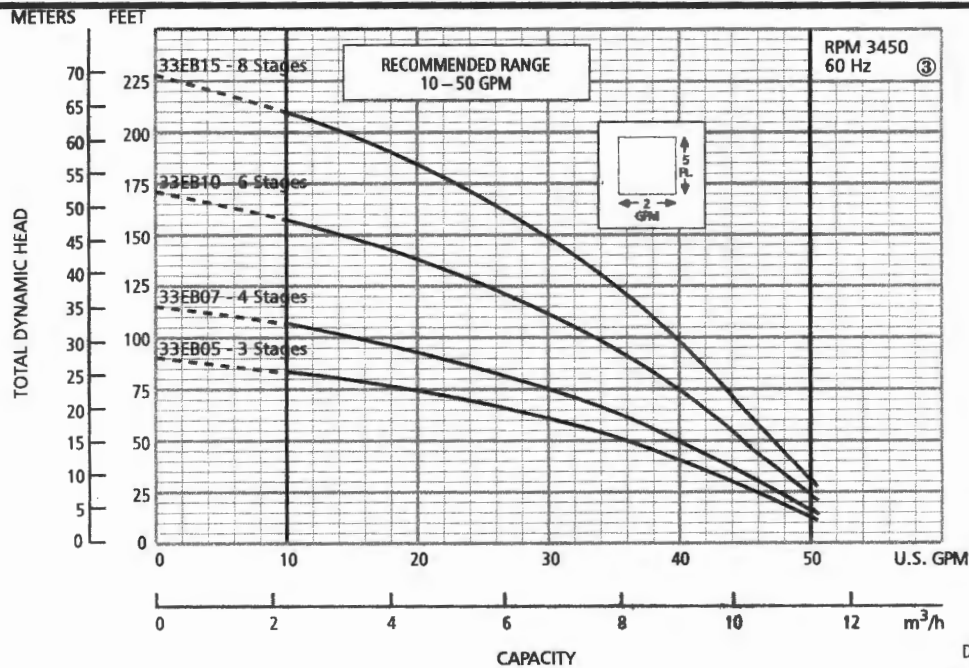


Model 20EB

FILTERED EFFLUENT BLASTER.



Model 33EB



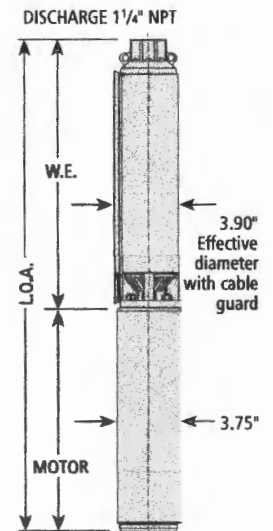
DIMENSIONS AND WEIGHTS

Order Number	HP	Phase	Stages	Length (inches)			Weight (lbs.)		
				W.E.①	Motor	L.O.A.②	W.E.	Motor	Total
20EB0522J, 20EB0521J	½	1	5	9.6	9.5	19.1	3	18	21
20EB0722J	¾	1	6	11.3	10.7	22.0	4	20	24
20EB1022J	1	1	8	13.0	11.8	24.8	5	23	28
20EB1522J	1½	1	11	15.5	15.1	30.6	6	31	37
33EB0522J, 33EB0521J	½	1	3	11.0	9.5	20.5	4	18	22
33EB0722J	¾	1	4	12.2	10.7	22.9	5	20	25
33EB1022J	1	1	6	14.7	11.8	26.4	6	23	29
33EB1522J	1½	1	8	17.1	15.1	32.2	7	31	38

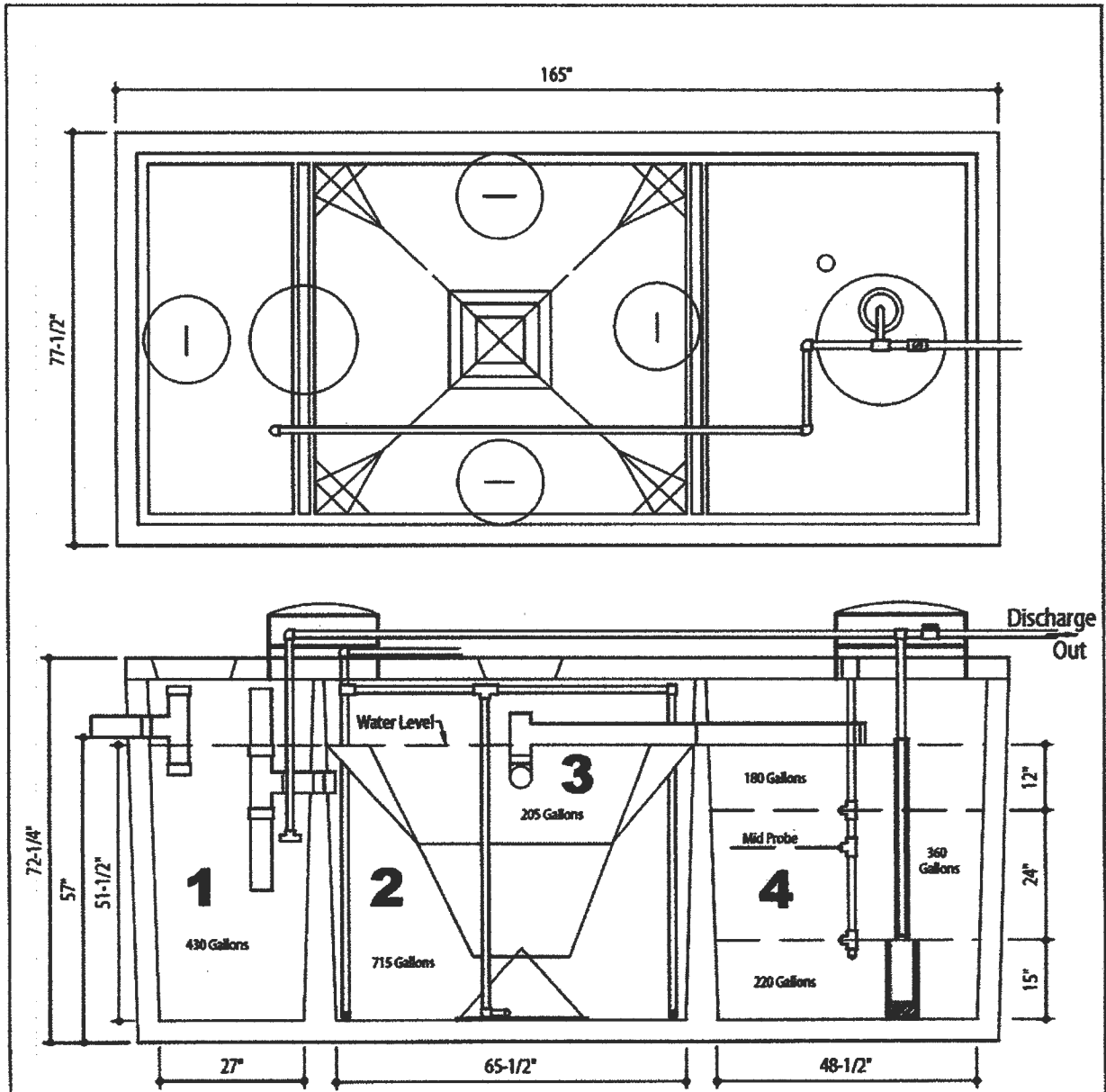
① W.E. = water end or pump without motor.

② L.O.A. = length of assembly – complete pump – water end and motor.

③ Performance curves are based on running pumps without ¼" discharge head weep hole. Actual performance will be slightly lower unless weep hole is plugged.



I. HOW THE HOOT SYSTEM WORKS



DESIGN DATA & GENERAL NOTES

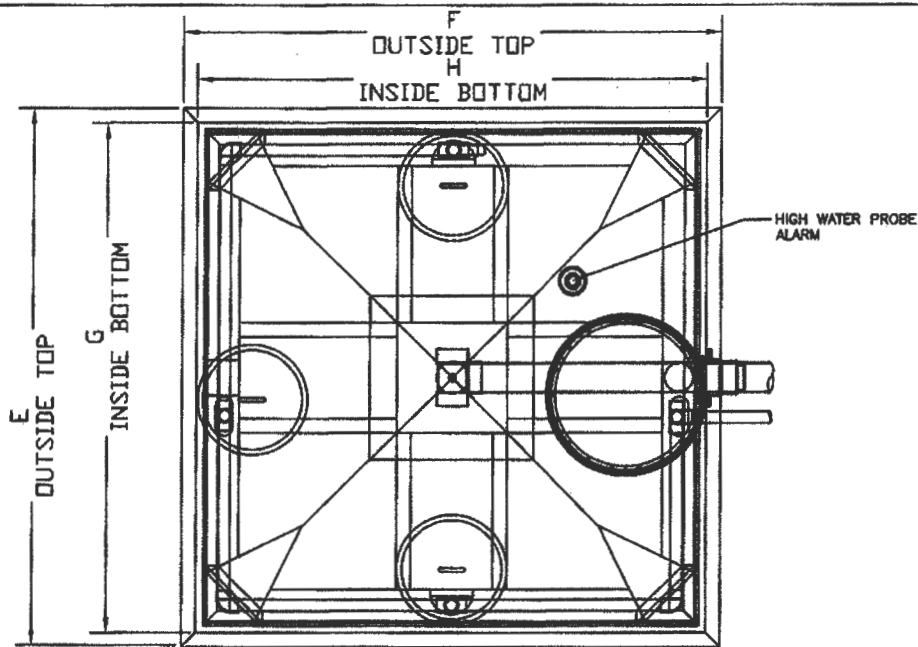
- [1] Concrete strength $f'_c=4000$ p.s.i. @ 28 days. Density = 150 pcf.
- [2] Cement - Portland Type I/II per ASTM C 150-92.
- [3] Admixtures & plasticizers per ASTM C 260-86 & C 494-92.
- [4] Reinforcing per ASTM A185. Min. 1-1/2" cover.

<p>Mayer Brothers, Inc. 6264 Race Road Elkridge, Maryland 21075 Tel. 410.796.1434 Fax. 410.796.1438 www.mayerbrosprecast.com</p>	<p>600 GPD BNR SYSTEM H-600 ABNR</p> <hr/> <p>with 750 GALLON PUMP CHAMBER</p>	
Dwg. No. Hoot Form #1	No Scale	March 19, 2009

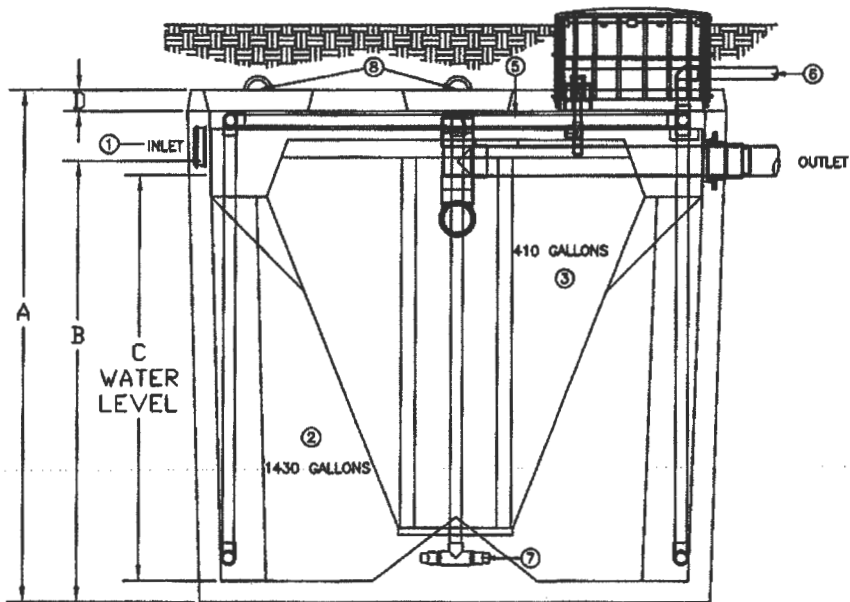
GENERAL HOOT INFORMATION

VERY IMPORTANT

1. Electrical requirements: 110V 30 AMP (NOT 20 AMP) with a stand-alone breaker. Less than 30 AMPS will cause the system to malfunction.
2. Probes should be installed according to the following site evaluations:
 - a. If there is less than 15" of cover over tank, install standard probe in top of tank as usual (through precut 3" opening in top of tank).
 - b. If there are 15" to 36" of cover over tank, install probe inside the riser, and seal the precut probe opening with a 3" cap.
 - c. **If the tank is more than 50' from the control panel, a Float Probe must be installed.** Please call Mayer Bros. in advance to order parts and discuss.
3. **DO NOT GLUE** the sensor probe staff into the 3" collar cast into the lid, since it may need to be removed for inspection or repair. Tapping it firmly into the sleeve is sufficient.
4. **USE ONLY SILICON II** (Silicon I gives off gas when drying, which may cause flame.)
5. **Locating Control Panel:** All systems ordered from Mayer Bros. include a Remote Mounting Kit for the control panel, to mount the panel remotely from the tank (usually at the house). If the tank is located within 100' of the house, attach the Control Panel box to the house (preferably in an area where the homeowner will see and hear the alarms). If the tank is further than 100' from the house, the panel should be mounted at tank location - typically on a **Panel Pole** (...a 2x10 plank of treated lumber 10' long, inserted vertically along the side of the excavated tank and backfilled in place, leaving 3-4 feet above grade on which to mount the panel.) The length of wires attached to the probe staff determines where the panel should be located. **THESE WIRES CANNOT BE SPLICED.**
6. Locate the Blower adjacent to the Control Panel, for ease of operation & maintenance. It must be within 100' of the tank location to assure sufficient air pressure.
7. Maryland Distributor BNR Hoot System Tank Dimensions:
 - a. Width at Top Slab: 77.5"
 - b. Length at Top Slab: 165"
 - c. Overall Height: 72.25"
 - d. Bottom of Tank to Bottom of Inlet: 57.5"
8. All *PolyLok* Risers over the trash/aeration chamber (20" dia) and pump chamber (24" dia) must be brought to grade with Riser extensions. Grade should be finished so that homeowner can mow over them.
9. Versions of the Control Chip located in the Control Panel box are as follows:
 - a. Version Universal 1.02 (all installations since May 2009)
10. Version 6.98 BNR (units older than May 2009)



PLAN VIEW



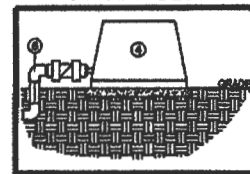
SIDE ELEVATION

REVISIONS	DESCRIPTION

CRITICAL DIMENSIONS

A	80.00"
B	70.25"
C	65.00"
D	4.00"
E	92.00"
F	92.00"
G	80.00"
H	80.00"

TROY AIR BLOWER



THE HOOT AEROBIC TREATMENT SYSTEM

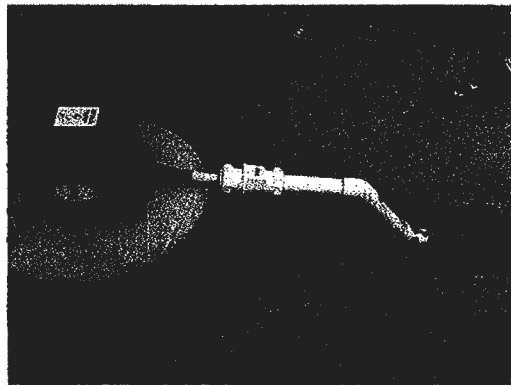
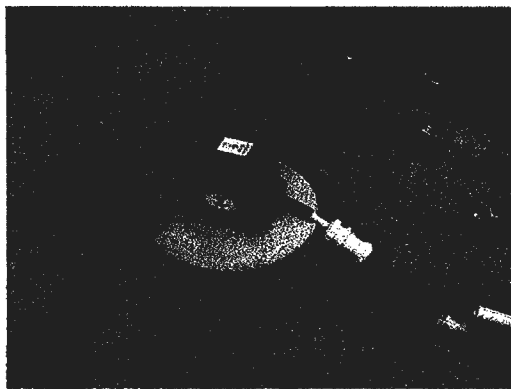
- 1) SEPARATE PRETREATMENT TANK REQUIRED (MIN. 800 GALLONS) - WHERE ANAEROBIC DIGESTION OCCURS AND STORAGE FOR NON-BIOGRADABLE MATERIALS.
- 2) AERATION CHAMBER- WHERE AIR IS INTRODUCED INTO SEWAGE FOR DIGESTION.
- 3) CLARIFIER- A STILL CHAMBER WHERE SOLIDS SETTLE OUT AND THE CLEAR EFFLUENT RISES.
- 4) TROY AIR LINEAR AIR BLOWER- LONG LIFE, EFFICIENT LINEAR BLOWER WHICH COMPRESSES ATMOSPHERIC AIR AND UNDER PRESSURE DELIVERS IT TO THE TANK. MAY BE REMOTELY MOUNTED UP TO 50' FROM SYSTEM. MUST MAINTAIN 1/8" SLOPE TOWARDS TANK FOR DRAINAGE TO TANK.
- 5) AIR MANIFOLD- DELIVERS THE AIR FROM THE LINE TO THE STONES FOR DIFFUSION INTO THE SEWAGE.
- 6) AERATION LINE- DELIVERS THE AIR FROM THE PUMP TO THE MANIFOLD. CHECK VALVE INCLUDED.
- 7) AERATION STONE- AIR IS FINELY DIFFUSED FROM THE STONE INTO THE AERATION CHAMBER.
- 8) 18" COVERS- PROVIDE ACCESS TO EACH COMPONENT OF THE SYSTEM FOR REPAIR. ARE BROUGHT TO GRADE IF REQUIRED FOR LOCAL CODE.

HOOT SYSTEMS, LLC
www.hootsystems.com

THIS DRAWING IS THE PROPRIETARY PROPERTY OF HOOT SYSTEMS LLC. REPRODUCTION, DISCLOSURE OR USE OF ANY PART OF THIS DRAWING OR ANY INFORMATION THEREIN IS EXPRESSLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF HOOT SYSTEMS LLC.

DESCRIPTION: 1000 GPD GRAVITY DISCHARGE SYSTEM H-1000-A w/ POLYLOK ACCESS 4" WALLS				PART # H-1000-A
DATE: 9-11-10	DRAWN BY: AY	CHECK BY: RS	SCALE: N.T.S.	

- j. If the 90 degree bends line up, then **prime and glue** the pieces in place.
- k. Measure the distance between the 90 degree bends, and cut piping to connect them. (NOTE: This section of pipe is useful in supporting the check valve to best advantage. While the blower itself should always rest firmly on the level pad, the check valve should be not be touching the concrete pad. The vibrations caused by air flowing through it can cause it to rub against the concrete and wear out prematurely. Use the vertical pipe coming up from the trench to support the valve a little above the concrete pad. To accomplish this, the air pipe itself must be well supported from underneath in the trench, particularly underneath the 45 or 90 degree bend turning upward. Tamp the earth well in this area, or place a brick under the end of the pipe.)



Installing the air blower and connecting it to the air pipe.

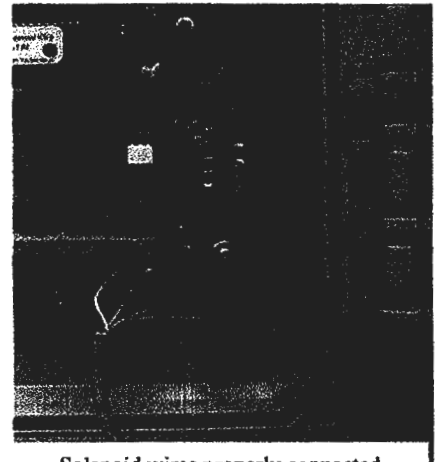
- l. **Prime and glue in place**, once all is right.

Attach the back-pressure hose:

- m. Locate the small black rubber hose line that is wound up inside the control panel. This is the back-pressure hose that will connect to the blower, and enable the control panel to monitor the amount of air being pumped into the aeration chamber. For the system to function properly, it **MUST** be installed correctly.

16. WIRING THE RECIRCULATION SOLENOID IN THE PANEL

- a. **Locate the two remaining wires that you have pulled into the panel for the recirculation solenoid.**
- b. **Locate the small solenoid terminal on the control panel door.**
- c. **Strip back each wire ¼” and twist very tightly. (REMINDER: Leave enough wire inside so that the door can be fully opened, but not so much that it will interfere with panel operation.)**
- d. **Insert the two wires into either terminal point and secure. (NOTE: It does not matter which way you connect these two wires, since the current here is D.C.)**

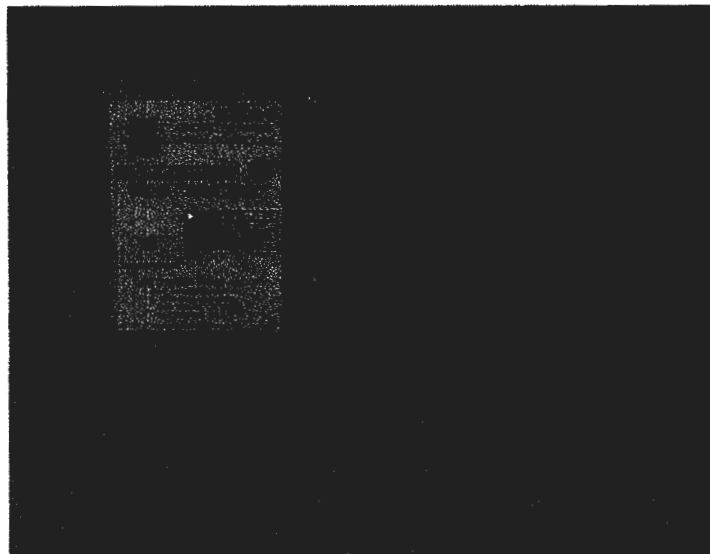


Solenoid wires properly connected

(REMINDER: Always use standard wire – not solid – so that it is flexible.)

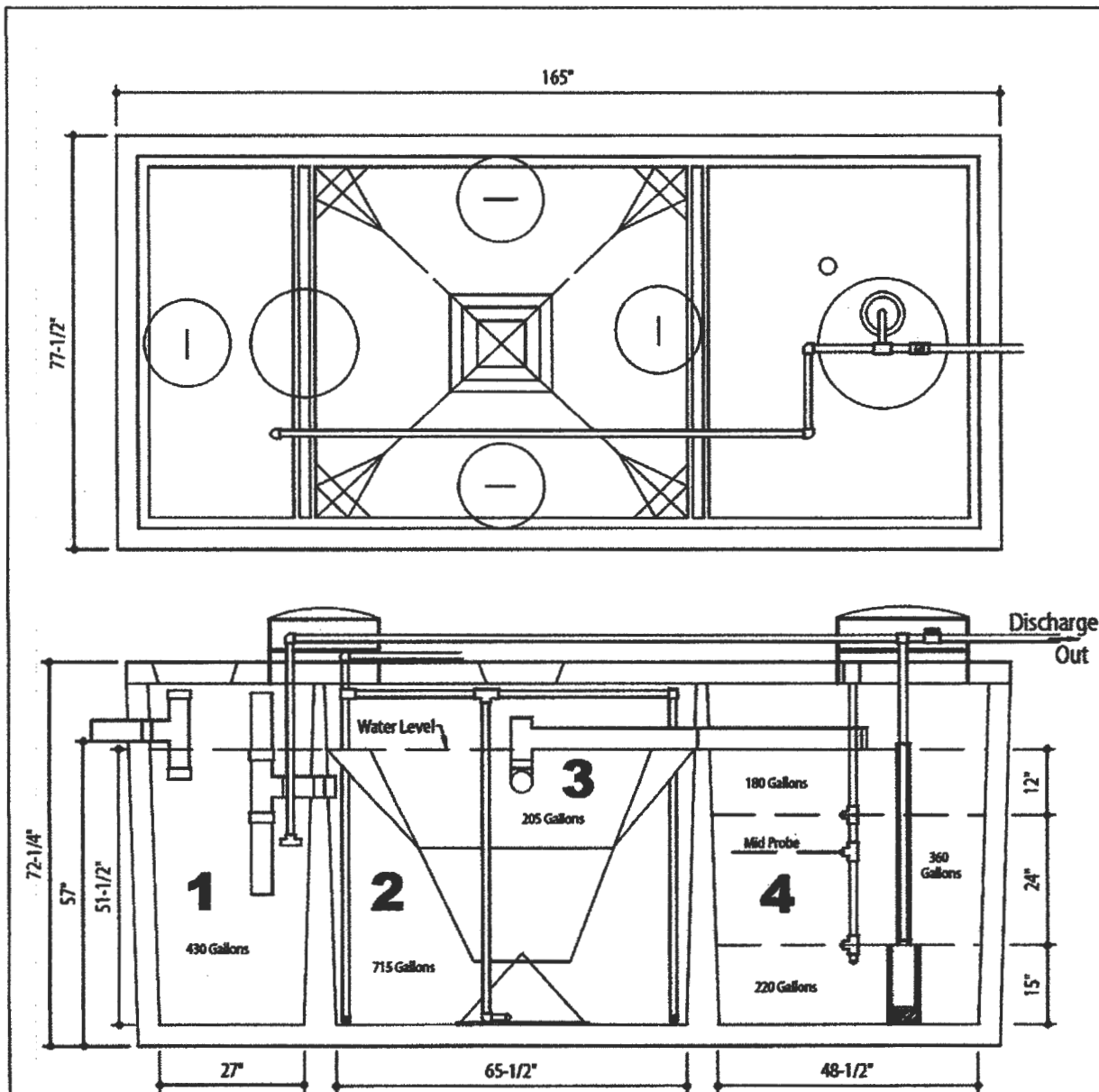
17. CLOSE AND SECURE THE CONTROL PANEL DOOR.

- a. **Silicone all conduit penetration points where the wires entered to keep out pests, moisture, and gases. Wiggle wires to make certain seals are complete.**
- b. **Tuck all the wires in neatly, close and secure the panel door.**
- c. **Leave the quick disconnect power disconnected. The startup technician will do this.**
- d. **Before leaving make certain the 30 AMP breaker inside the house is ON.**



Completed control panel installation


I. HOW THE HOOT SYSTEM WORKS



DESIGN DATA & GENERAL NOTES

- [1] Concrete strength $f_c=4,000$ p.s.i. @ 28 days. Density = 150 pcf.
- [2] Cement - Portland Type I/II per ASTM C 150-92.
- [3] Admixtures & plasticizers per ASTM C 260-86 & C 494-92.
- [4] Reinforcing per ASTM A185. Min. 1-1/2" cover.

Mayer Brothers, Inc.
 6264 Race Road
 Elkridge, Maryland 21075
 Tel. 410.796.1434
 Fax. 410.796.1438
 www.mayerbrosprecast.com



**600 GPD BNR SYSTEM
 H-600 ABNR**

with 750 GALLON PUMP CHAMBER

Dwg. No. Hoot Form #1	No Scale	March 19, 2009
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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

Grantor/Grantee Name: Baker
Reference/Control #: 12

LR - Agreement Surcharge
1x 40.00 40.00

=====
SubTotal: 60.00
Total: 60.00

=====
CRD-Credit 60.00
Credit Card Confirmation : 000160

03/09/2016 09:19

CC13-SB

#5722381 /496/109

Thank you for visiting us today~

Oswald, Hank

From: Oswald, Hank
Sent: Friday, March 04, 2016 3:32 PM
To: INFO@TRANSFORMINGARCHITECTURE.COM
Subject: 17105 Spring Hollow Court_BAT Plan Comments
Attachments: Proposed Trench Layout.pdf; Sewage Disposal Specs.pdf

Hi Karen:

Upon review of the BAT plan submitted for 17105 Spring Hollow Court, a couple of changes and or additions are requested. I've attached the sewage Disposal System Worksheet to assist you.

- Show how two replacement systems fit inside the existing SDA (see attached proposed layout and spec sheet)
- Show Replacement 1 and 2 calculations on the BAT Plan. (see attached worksheet)
- Add septic easement symbol next to where it reads "This area designates...."
- Show 20 foot trench for softener system and line from house to trench in proposed area (Trench Calculation for Softner System = $80\text{gpd} / 0.8 = 100\text{ sq ft}/3\text{ft} = 33.33 \times 0.45$ (sidewall credit) = 15LF)

Should you have any concerns or questions, please don't hesitate to ask.

Respectfully,

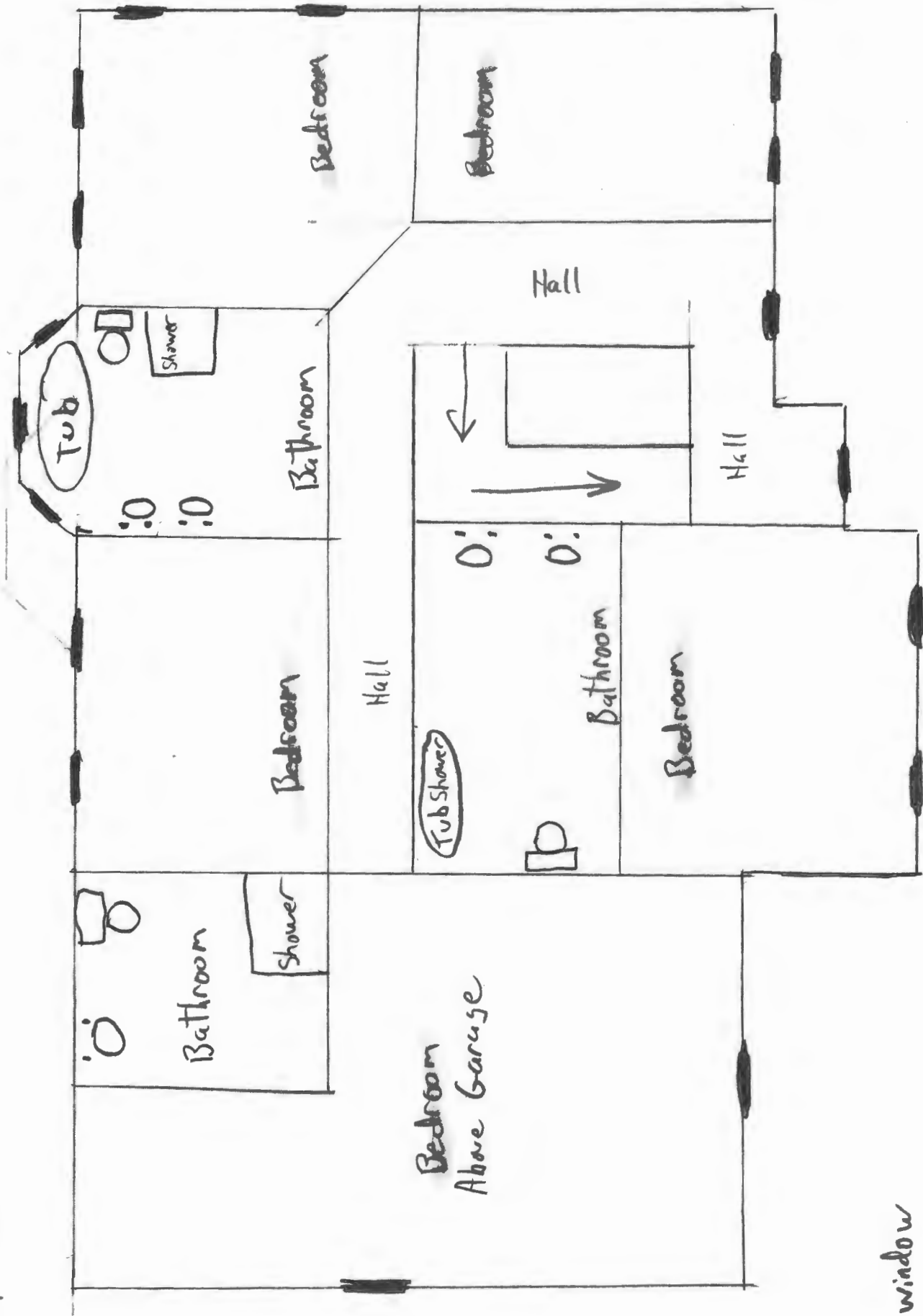
Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
410.313.2648 (Fax)

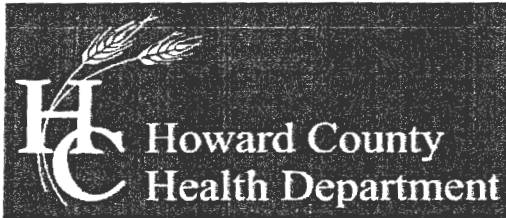
17105 Spring Hollow Ct.
MT Airy MD 21771

2nd Floor plan

Permit # B16000185



— window



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

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

THIS AGREEMENT is made this 8th day of March, among Michael S. Baker, Claudine T. R. Baker, Robert Russell and Bernadette Russell, 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 17105 Spring Hollow Court, Mount Airy MD, in the 5th 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 11798 Folio 433.

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 Hoot BNR600 BAT.

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.

Robert J. Quinn 3/9/16
Howard County Health Department

Michael S. Baker 3/8/16
Owner #1 Signature Date

Michael S. Baker
Owner #1 Print Name

Claudine Baker 3/8/16
Owner #2 Signature Date

Claudine Baker 3/8/16
Owner #2 Print Name

Buyer #1 Signature Date

Buyer #2 Signature Date

Buyer #1 Print Name

Buyer #2 Print Name

JW 8/8/2014

Robert Roussel 3/8/16
Owner #3 Signature Date

Robert Roussel
Owner #3 Print Name

Bernadette Roussel 3/8/16
Owner #4 Signature Date

Bernadette Roussel
Owner #4 Print Name

BLASTER®

Filtered Effluent Pump

SPECIFICATIONS

Model	Flow Range GPM	Horsepower Range	Best Eff. GPM	Discharge Connection	Maximum Solids Size	Rotation ^①
8EB	1.5 - 10	½ - 1	7	1¼	⅛" dia.	CCW
12EB	3 - 16	½ - 1½	10	1¼	⅛" dia.	CCW
20EB	6 - 28	½ - 1½	18	1¼	⅛" dia.	CCW
33EB	10 - 50	½ - 1½	33	1¼	⅛" dia.	CCW
55EB	20 - 80	½ - 1½	55	1¼	⅛" dia.	CCW

① Rotation is counterclockwise when observed from pump discharge end.

"EB" SERIES MATERIALS OF CONSTRUCTION

Part Name	Material
Discharge Head	Glass Filled Eng. Composite
Bearing Spider - Upper	Noryl®/ GFN2
Bearing	Proprietary Eng. Polymer
Shaft Retaining Ring	AISI 301 SS
Diffuser	Lexan®
Impeller	Noryl®/GFN2
Bowl	AISI 304 SS
Shim	AISI 304 SS
Inlet Strainer	Glass Filled Eng. Composite
Screws - Cable Guard	AISI 304 SS
Motor Adapter	Glass Filled Eng. Composite
Casing	AISI 304 SS
Shaft	
Coupling	AISI 304 SS, Powder Metal
Cable Guard	AISI 304 SS

Lexan® and Noryl® are trademarks of GE Plastic.

Delrin® is a trademark of Dupont.



FEATURES

■ Designed for pumping filtered effluent from processed septic systems only.

■ **Field Serviceable:** Pump can be rebuilt in the field to like new condition with common tools and readily available spare parts. **NOTE:** The pump has left hand casing threads.

■ **Powered for Continuous Operation:** All ratings are within the working limits of the motor as recommended by the motor manufacturer. Pump can be operated continuously without damage to the motor.

■ **Metal Parts are Stainless Steel:** AISI types 301 and 304 are corrosion resistant, non-toxic and non-leaching.

■ **Non-Metallic Parts:** Impellers and diffusers are constructed of glass filled polycarbonate or Noryl, engineered composites. Both materials are corrosion and effluent resistant.

■ **Discharge Head:** Engineered composite material for superior strength and corrosion resistance. Loops for safety line molded into head.

■ **Motor Adapter:** Engineered composite material with high rigidity to provide accurate alignment of liquid end to motor. Generous space for removal of motor mounting nuts with regular open-end wrench.

■ **Bowls:** Stainless steel for strength and abrasive resistance.

■ 120" 3 wire jacketed motor lead standard.

■ Warranted for one year against failure due to workmanship and materials. **Solids plugged pumps are not covered. Pumps used for liquids other than filtered effluent are not covered.**

■ **Stainless Steel Casing:** Polished stainless steel is strong, attractive and corrosion resistant.

■ **Hex Shaft Design:** Six sided shaft for positive impeller drive.

■ **Inlet Strainer:** Molded suction strainer built into motor adapter.

■ **Engineered Polymer Bearings:** The proprietary, engineered polymer bearing material is extremely strong and highly resistant to abrasion and wear. The enclosed design upper bearing is mounted in a durable Noryl bearing spider for excellent abrasion resistance.

■ **NEMA Motor:**


- Corrosion resistant stainless steel construction.
- Built-in surge arrestor is provided on single phase motors.
- Stainless steel splined shaft.
- Hermetically sealed windings.
- Replaceable motor lead assembly.
- UL 778 recognized.
- NEMA mounting dimensions.

■ **Agency Listings:** All complete pump/motor assemblies are UL778 and CSA listed. All 4" Motors are UL778 recognized.

■ All models have ⅛" diameter bypass in discharge head to ensure venting on start up.

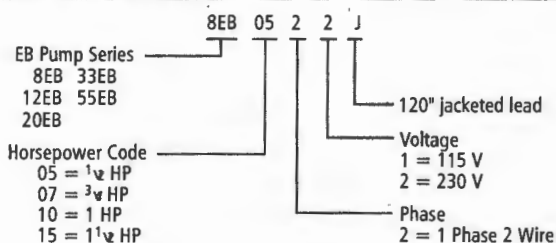
③ See curves and note.

AGENCY LISTINGS

 Underwriters Laboratories
File no. E174426

 Canadian Standards Association
File no. 38549

ORDER NUMBER CODE



BLASTER®

Filtered Effluent Pump

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20EB	6 - 28	½ - 1½	18	1¼	⅛" dia.	CCW
33EB	10 - 50	½ - 1½	33	1¼	⅛" dia.	CCW
55EB	20 - 80	½ - 1½	55	1¼	⅛" dia.	CCW

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Bearing	Proprietary Eng. Polymer
Shaft Retaining Ring	AISI 301 SS
Diffuser	Lexan®
Impeller	Noryl®/GFN2
Bowl	AISI 304 SS
Shim	AISI 304 SS
Inlet Strainer	Glass Filled Eng. Composite
Screws - Cable Guard	AISI 304 SS
Motor Adapter	Glass Filled Eng. Composite
Casing	AISI 304 SS
Shaft	
Coupling	AISI 304 SS, Powder Metal
Cable Guard	AISI 304 SS

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■ **Bowls:** Stainless steel for strength and abrasive resistance.

■ 120" 3 wire jacketed motor lead standard.

■ Warranted for one year against failure due to workmanship and materials. **Solids plugged pumps are not covered. Pumps used for liquids other than filtered effluent are not covered.**

■ **Stainless Steel Casing:** Polished stainless steel is strong, attractive and corrosion resistant.

■ **Hex Shaft Design:** Six sided shaft for positive impeller drive.

■ **Inlet Strainer:** Molded suction strainer built into motor adapter.

■ **Engineered Polymer Bearings:** The proprietary, engineered polymer bearing material is extremely strong and highly resistant to abrasion and wear. The enclosed design upper bearing is mounted in a durable Noryl bearing spider for excellent abrasion resistance.

■ **NEMA Motor:**

- Corrosion resistant stainless steel construction.
- Built-in surge arrestor is provided on single phase motors.
- Stainless steel splined shaft.
- Hermetically sealed windings.
- Replaceable motor lead assembly.
- UL 778 recognized.
- NEMA mounting dimensions.

■ **Agency Listings:** All complete pump/motor assemblies are UL778 and CSA listed. All 4" Motors are UL778 recognized.

■ All models have ⅛" diameter bypass in discharge head to ensure venting on start up.

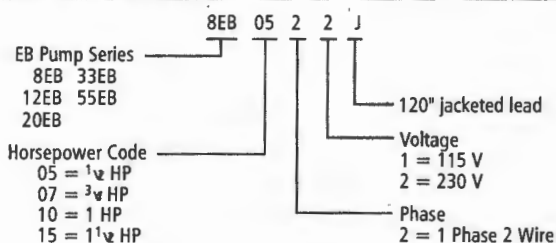
③ See curves and note.

AGENCY LISTINGS

 Underwriters Laboratories
File no. E174426

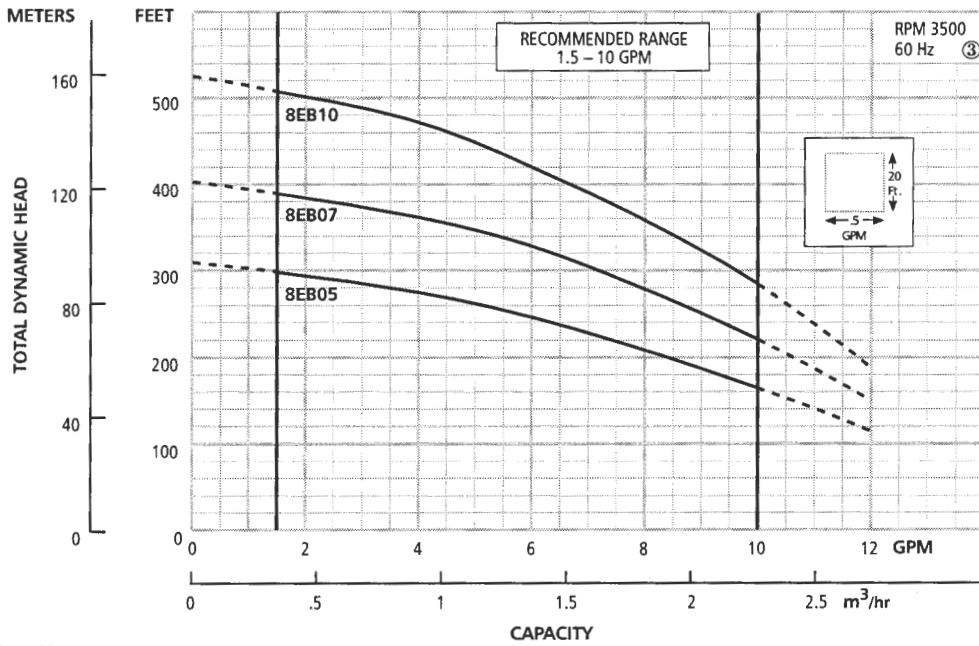
 Canadian Standards Association
File no. 38549

ORDER NUMBER CODE

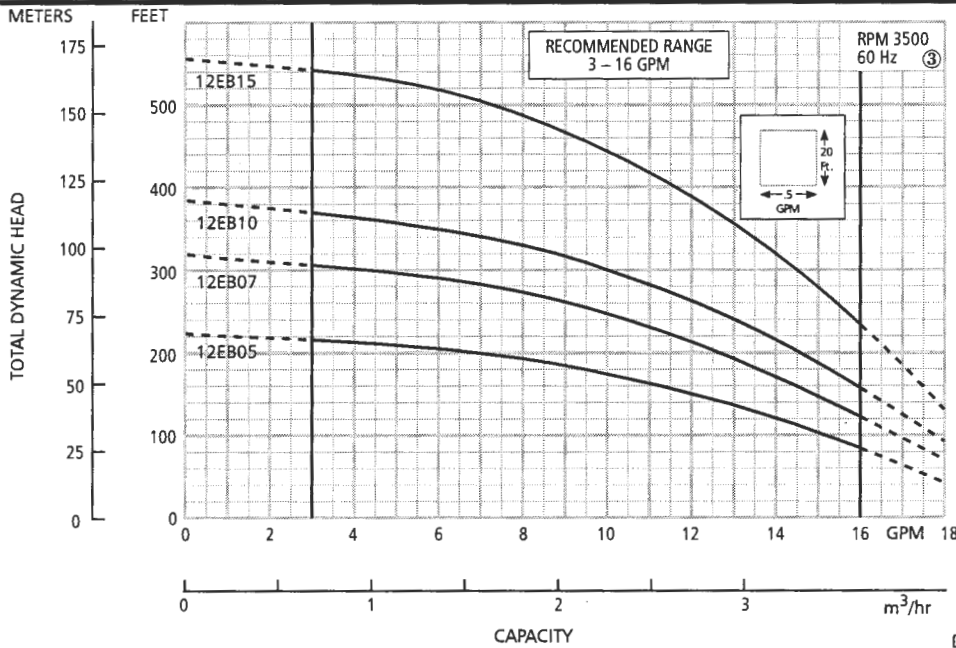


Model 8EB

FILTERED EFFLUENT BLASTER



Model 12EB



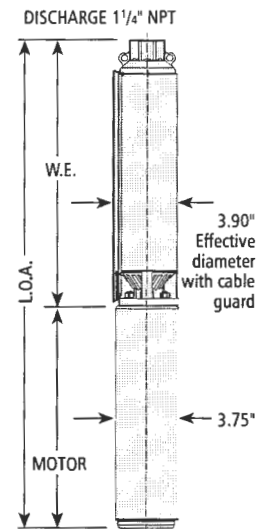
DIMENSIONS AND WEIGHTS

Order Number	HP	Phase	Stages	Length (inches)			Weight (lbs.)		
				W.E.①	Motor	L.O.A.②	W.E.	Motor	Total
8EB0522J, 8EB0521J	½	1	10	13.3	9.5	22.8	5	18	23
8EB0722J	¾	1	13	15.4	10.7	26.1	6	20	26
8EB1022J	1	1	17	18.3	11.8	30.1	8	23	31
12EB0522J, 12EB0521J	½	1	7	11.0	9.5	20.5	4	18	22
12EB0722J	¾	1	10	13.0	10.7	23.7	5	20	25
12EB1022J	1	1	12	14.4	11.8	26.2	6	23	29
12EB1522J	1½	1	17	17.9	15.1	33.0	8	31	39

① W.E. = water end or pump without motor.

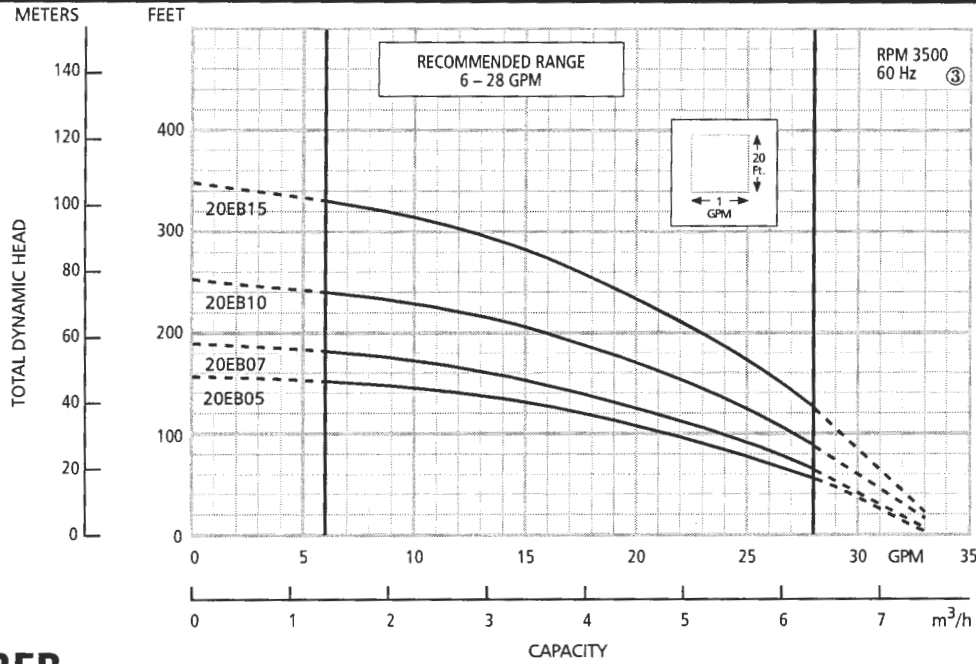
② L.O.A. = length of assembly - complete pump - water end and motor.

③ Performance curves are based on running pumps without 1/8" discharge head weep hole. Actual performance will be slightly lower unless weep hole is plugged.

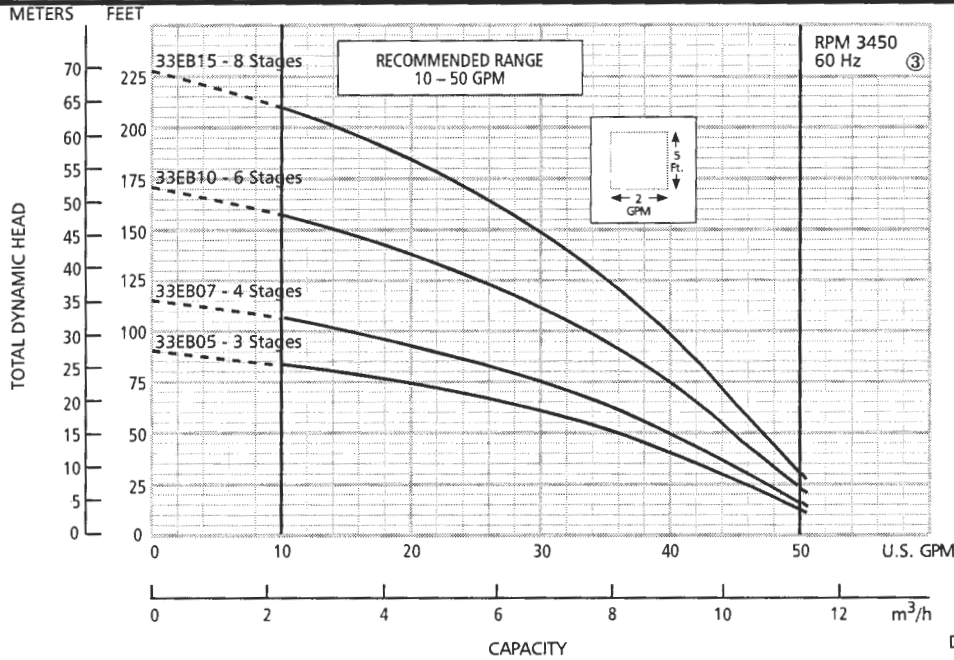


Model 20EB

FILTERED EFFLUENT BLASTER.



Model 33EB



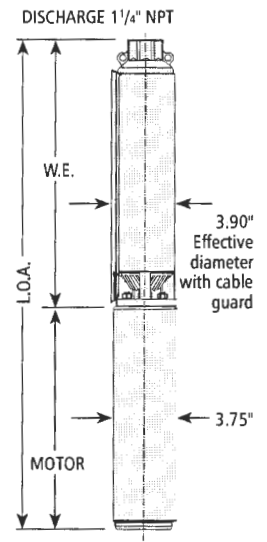
DIMENSIONS AND WEIGHTS

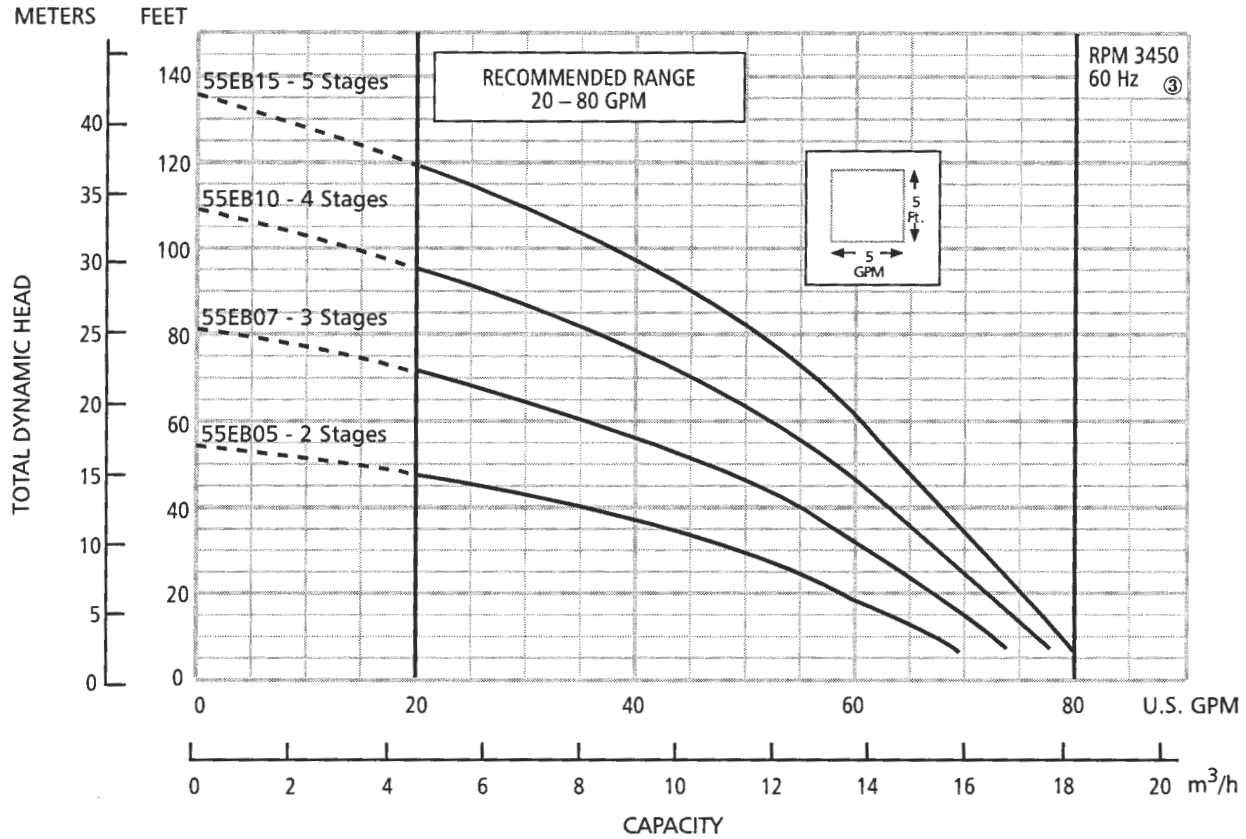
Order Number	HP	Phase	Stages	Length (inches)			Weight (lbs.)		
				W.E.①	Motor	L.O.A.②	W.E.	Motor	Total
20EB0522J, 20EB0521J	½	1	5	9.6	9.5	19.1	3	18	21
20EB0722J	¾	1	6	11.3	10.7	22.0	4	20	24
20EB1022J	1	1	8	13.0	11.8	24.8	5	23	28
20EB1522J	1½	1	11	15.5	15.1	30.6	6	31	37
33EB0522J, 33EB0521J	½	1	3	11.0	9.5	20.5	4	18	22
33EB0722J	¾	1	4	12.2	10.7	22.9	5	20	25
33EB1022J	1	1	6	14.7	11.8	26.4	6	23	29
33EB1522J	1½	1	8	17.1	15.1	32.2	7	31	38

① W.E. = water end or pump without motor.

② L.O.A. = length of assembly – complete pump – water end and motor.

③ Performance curves are based on running pumps without 1/8" discharge head weephole. Actual performance will be slightly lower unless weep hole is plugged.





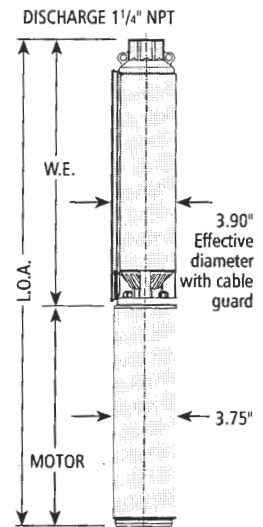
DIMENSIONS AND WEIGHTS

Order Number	HP	Phase	Stages	Length (inches)			Weight (lbs.)		
				W.E.①	Motor	L.O.A.②	W.E.	Motor	Total
55EB0522J, 55EB0521J	½	1	2	11.4	9.5	20.9	4	18	22
55EB0722J	¾	1	3	13.5	10.7	24.2	5	20	25
55EB1022J	1	1	4	15.5	11.8	27.3	6	23	29
55EB1522J	1½	1	5	17.6	15.1	32.7	8	31	39

① W.E. = water end or pump without motor.

② L.O.A. = length of assembly – complete pump – water end and motor.

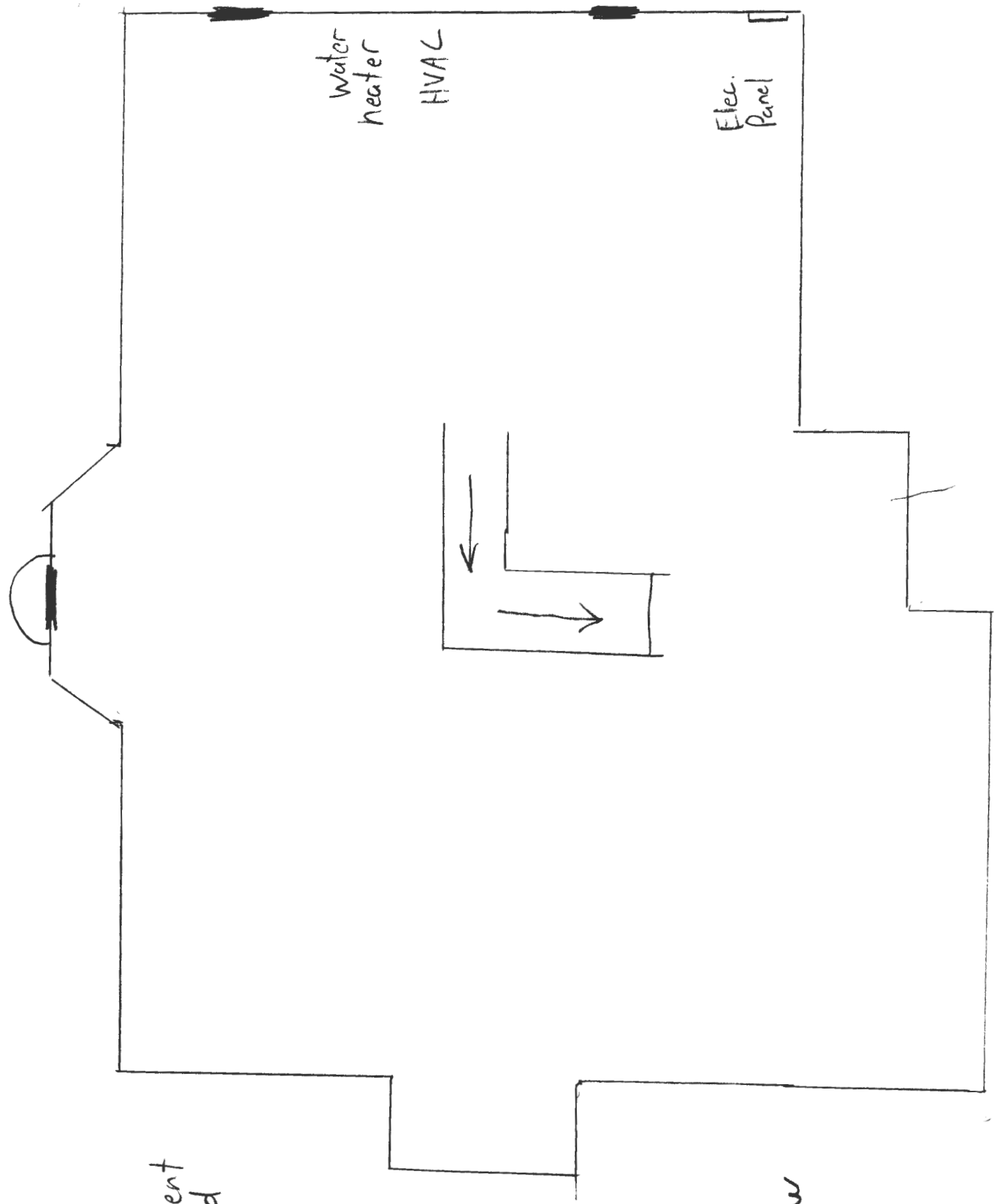
③ Performance curves are based on running pumps without 1/8" discharge head weep hole. Actual performance will be slightly lower unless weep hole is plugged.



Permit # B16000185

Basement floor plan

17105 Spring Hollow Ct.
MT. Airy, MD 21771



entire Basement
is unfinished

— window