

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: 4/5/17 **ONSITE SEWAGE DISPOSAL SYSTEM** P 560596

PERMIT UPGRADE

INSTALLATION APPROVAL DATE: 4/25/17 (SEC) A UPGRADE

PROPERTY ADDRESS: 13765 Nichols Drive TAX ID: 05-346126

CONTRACTOR: Hatfield's Equipment EMAIL: ken@hatfieldsequipment.com

CONTRACTOR ADDRESS: P.O. Box 519, Annapolis, Junction, MD 21701 PHONE: 301-490-4289

PROPERTY OWNER: Errol Watson EMAIL: _____

OWNER ADDRESS: 13675 Nichols Drive, Clarksville, MD 21029 PHONE: 240-286-3907

TREATMENT TANK MODEL: Microfast 0.75 TREATMENT TANK SIZE: Existing

PUMP CHAMBER CAPACITY (GALLONS): 1250 PUMP SIZE: Existing

FLOW RATE (GALLONS PER DAY): 600 gpd APPLICATION RATE: Existing

DISTRIBUTION SYSTEM: GRAVITY FED LOW PRESSURE DOSED

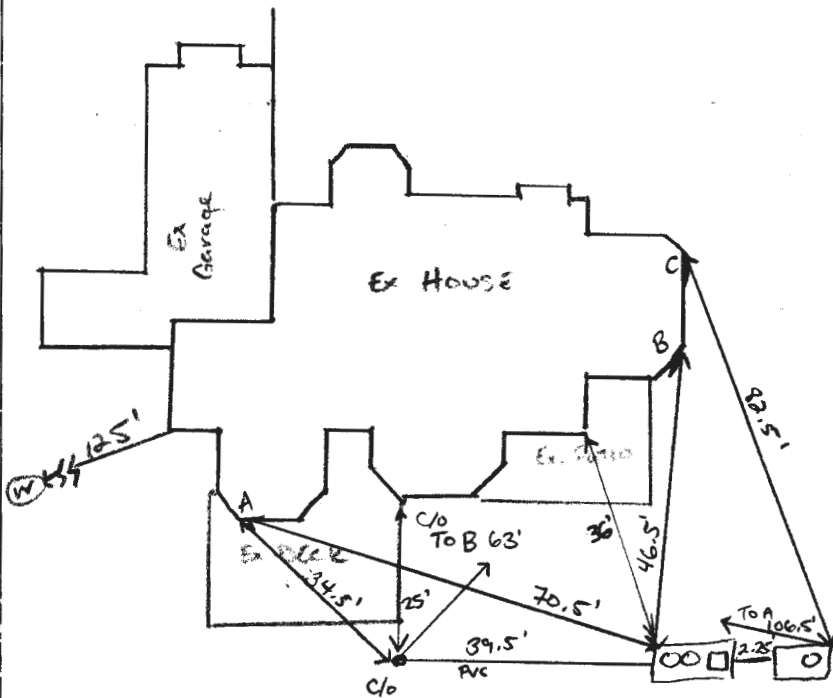
TRENCHES:	LINEAR FEET REQUIRED: <u>Existing</u>	INLET DEPTH: <u>Existing</u>
	TRENCH WIDTH: <u>Existing</u>	MAXIMUM BOTTOM DEPTH: <u>Existing</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>Existing</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>Existing</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Septic tank w/ Microfast unit and pump tank being relocated. Ken Hatfield to provide sequence and methods of construction. Watertight test of tanks required after set. Install control panel outside if house. Homeowner to pull electrical permit and install required components.	

ISSUED BY: Robert Bricker ISSUE DATE: 4/5/17 EXPIRATION DATE: 4/5/18

- 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 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
- 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



ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
_____	_____	_____
NUMBER OF TRENCHES _____		
TOTAL LENGTH _____		
ABSORPTION AREA _____		
DISTRIBUTION BOX LEVEL _____		
DISTRIBUTION BOX BAFFLE _____		
DISTRIBUTION BOX PORT _____		

SEPTIC TANK DATA

SEPTIC TANK I LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	2.5'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + MID
6" PORT LOC	2' REAR
WATERTIGHT TEST	YES
SLOTTED	YES
DATE ON LID	—

PUMP/SEPTIC TANK LEVEL

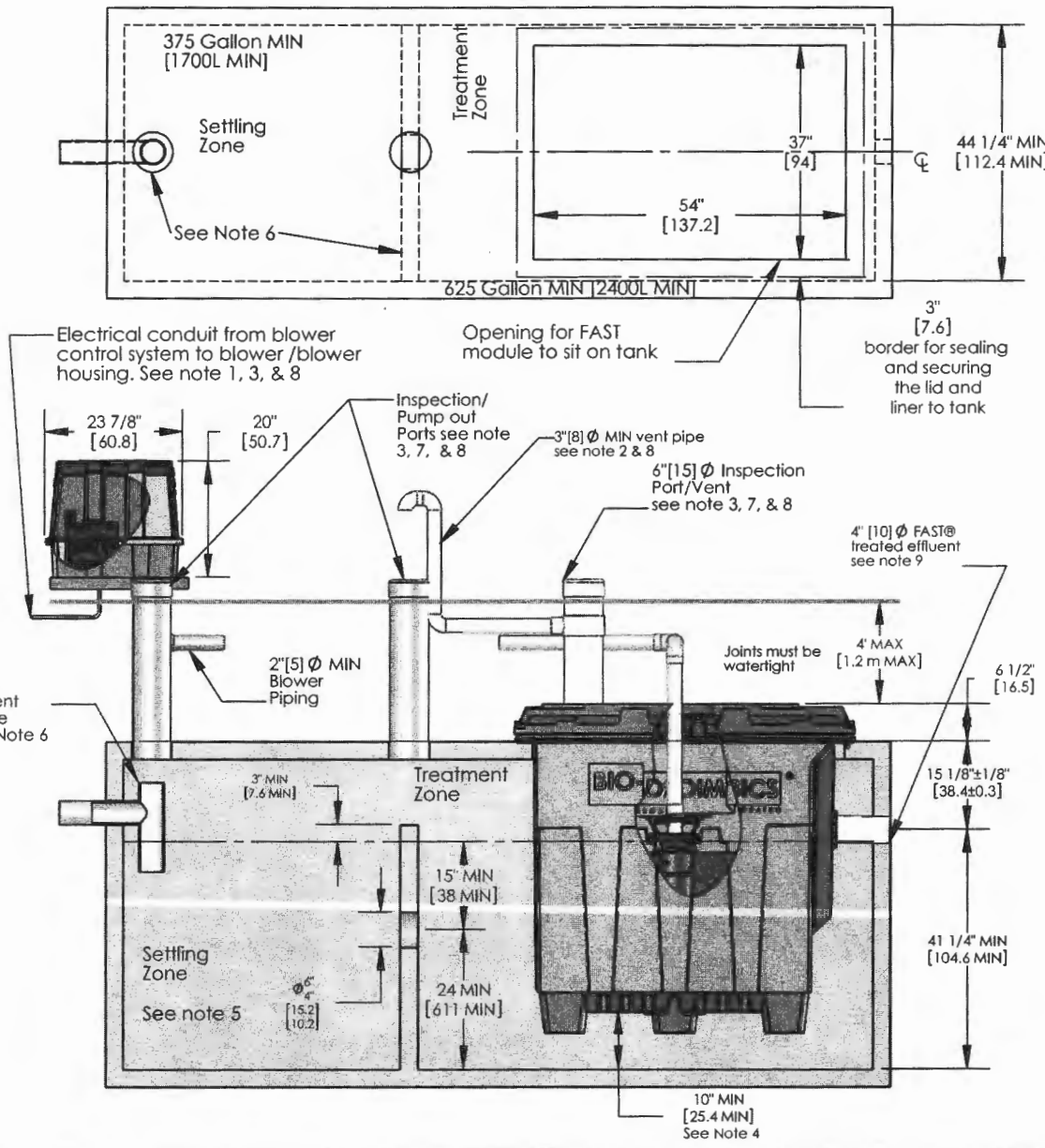
SEPTIC TANK LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	1250 GAL
SEAM LOC	TOP
TANK LID DEPTH	2.5'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	MID
6" PORT LOC	REAR
WATERTIGHT TEST	YES
SLOTTED	NO
DATE ON LID	—

PRE-CONSTRUCTION:

4/10/17 Hatfield's on site. Existing tanks uncovered, pump truck pumping out sewage. New tank locations staked, Hatfield's adjusted to match measurements on plan. (SC)

INSTALLATION: 4/10/17 New line connected to existing line prior to tanks + run to new tank location. Existing tanks uncovered + no leaks - some groundwater @ bottom of pump tank hole. Tanks to be removed by Babylon today, set tomorrow. Some sewage had leaked onto ground from new line - asked Hatfield's to cap off and they did. (SC)
 4/11/17 On site while Babylon is setting pump tank, septic tank already set. No cracks on bottom or sides of pump tank. Inlet/outlet pipes ^{hydraulic cemented +} tarred, Hatfield's gluing on caps for watertight tests. 4/12/2017 Water tight test approved. Outlet on pump tank to be abandoned. Air compressor to be reattached and system to be hooked up w/ previous pump. New pump/Alarm test (SC) 4/25/17 Met Hatfield's for pump + alarm. Alarm sounds, pump


FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 4/25/17
 pumps effluent to D-box. (SC)



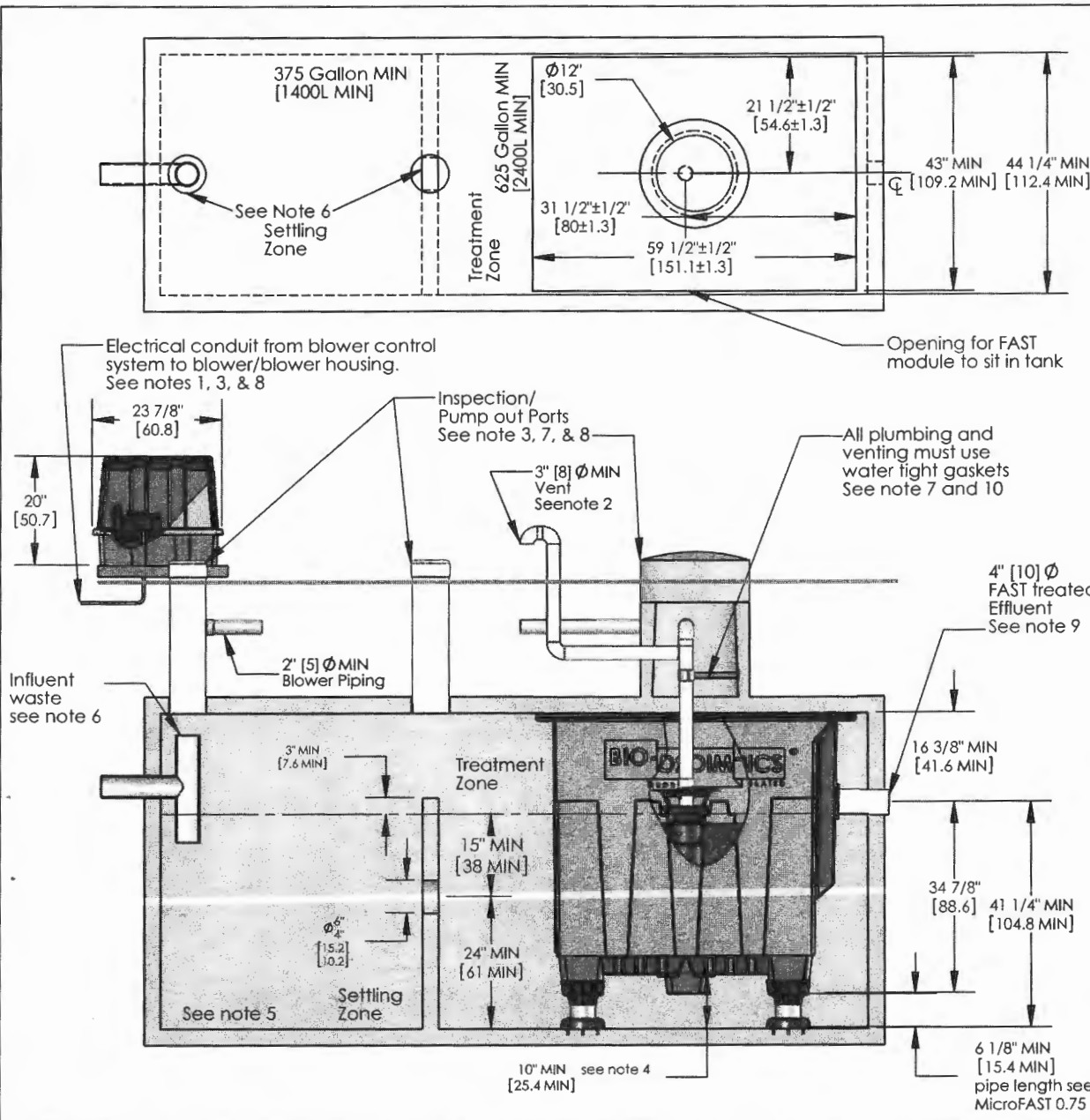
- NOTES**
- Blower piping to FAST® may not exceed 100 FT [30.5m] total length and use a maximum of 4 elbows. For distances greater than 100 FT [30.5m] - consult factory. Blower must be located above flood/standing water levels on a solid surface or concrete base 24" X 18" X 2" [61X45.7X5cm] minimum.
 - Vent to be located above finish grade or higher to avoid infiltration. Cap with vent grate w/at least 7.1 sq in. [45.8 sq. cm] open surface area. Secure with stainless steel screws (see sheet 4 of 4 *MicroFAST@ 0.75 Details.*)
or
Run vent to desired location and cover opening with vent grate w/at least 7.1 sq in. [45.8 sq. cm] of open surface area. Secure with stainless steel screws. Vent piping must not allow excess moisture build up or back pressure.
 - All appurtenances to FAST® (e.g. tank pump outs, etc.) must conform to all country, state, province, and local plumbing and electrical codes. The blower control system is provided by Bio-Microbics, Inc.
 - Tank volume must be increased by 20% if the minimum of 10 inches [25.5cm] is used between the unit and the base of tank. Consult factory for approval.
 - The primary compartment may be a separate tank.
 - Either the influent pipe tee shall be fitted with a pipe cap or the baffle separating the two zones shall be extended to the top of the tank. If choosing to use the pipe cap, then the baffle shall be at least 3"[8cm] higher than the water level as shown on the drawing.
 - All inspection, viewing and pump out ports must be secured to prevent accidental or unauthorized access.
 - Tank, anchors, piping, conduit, blower housing pad and vents are provided by others.
 - All piping and ancillary equipment installed after FAST® must not impede or restrict free flow of effluent.
 - No more than 4 FT [1.2 m] of fill may be placed over unit lid. Unit may stand inside tank. See sheet 2 of 4 *MicroFAST@ 0.75 with feet.* Refer to installation manual for more details.

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DO NOT SCALE				MicroFAST 0.75 FAST Unit
UNLESS NOTED DIMENSIONS ARE IN INCHES [CENTIMETERS] TOLERANCES ± 0.02 IN/IN [± 0.05 CM/CM]				
WEIGHT	lb	SIZE	DRAWING NUMBER	
		A	MicroFAST@ 0.75 with lid	
DRAWN	NAME	DATE		
CTC	CTC	12/18/2006		
CHECKED	PF	1/15/2010	REVISED	1/15/2010
			REV.	INI-04-G

SHEET 1 OF 4



- NOTES**
- Blower piping to FAST® may not exceed 100 FT [30.5m] total length and use a maximum of 4 elbows in the piping system @ 100FT [30m]. For distances greater than 100 FT [30m] consult factory. Blower must be located above flood levels on a concrete base 24" X 18" X 2" [61 X 45.7 X 5cm] minimum.
 - Vent to be located above finish grade or higher to avoid infiltration. Cap with a vent grate with at least 7.1 sq in.[45.8 sq. cm] open surface area. Secure with stainless steel screws (see sheet 4 of 4 MicroFAST® 0.75 Details).
or
Run Vent to desired location and cover opening with a vent grate with at least 7.1 sq in.[45.8 sq. cm] open surface area. Secure with stainless steel screws. Vent piping must not allow excess moisture build up or back pressure.
 - All appurtenances to FAST® (e.g. tank pump outs, etc.) must conform to all applicable country, state, province, and local plumbing and electrical codes. Blower control system by Bio-Microbics, Inc.
 - Tank volume must be increased by 20% if the minimum of 10 inches [25.5cm] is used between the unit and the base of tank. Consult factory for approval.
 - The primary compartment may be a separate tank.
 - Either the influent pipe tee shall be fitted with a pipe cap or the baffle separating the two zones shall be extended all the way to the top of the tank. If choosing to use the pipe cap, then the baffle shall be at least 3" [8cm] higher than the water level as shown on the drawing.
 - All inspection, viewing and pump out ports must be secured to prevent accidental or unauthorized access.
 - Tank, piping, conduit, blower housing pad and vents are provided by others.
 - All piping and ancillary equipment installed after FAST must not impede or restrict free flow of effluent.
 - The air supply line into the FAST® unit must be secured to prevent vibration induced damage. The air supply line should be secured with a non-corrosive clamp every 2' min [0.6m]. See Alternate air supply option on sheet 4 of 4 MicroFAST® 0.75
 - Min. height may be reduced, consult factory and reference "Short-FAST-Module-Procedure.pdf".
 - Refer to sheet 4 of 4 MicroFAST® 0.75 Details drawing for leg extensions requirements.

DO NOT SCALE			
UNLESS NOTED DIMENSIONS ARE IN INCHES [CENTIMETERS] TOLERANCES ± 0.02 IN/IN [± 0.05 CM/CM]			
MicroFAST 0.75 FAST Unit		WEIGHT	lb
SIZE	A	DRAWING NUMBER	MicroFAST® 0.75 with feet
NAME	DATE	CHECKED	PF
CIC	12/18/2006	1/15/2010	
REVISED	1/15/2010	REV.	INI-04-G
SHEET 2 OF 4			

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Specifications for MicroFAST 0.75 Wastewater Treatment System

1. GENERAL
The contractor shall furnish and install (1) MicroFAST®0.75 treatment system as manufactured by Bio-Microbics, Inc. The treatment system shall be complete with all needed equipment as shown on the drawings and specified herein.
The principal items of equipment shall include FAST® system insert, leg extensions, or lid, blower assembly, blower controls and alarms. All other items will be provided by others. The MicroFAST 0.75 unit shall be situated within a 625 Gallon[2400L] minimum compartment or tank as shown on the plans, or in a 1000 gallon [3700L] one compartment tank. Suggested maximum settling zone is (1X) the daily flow. Tank(s) must provide adequate pump out access and conform to local, state, and all other applicable codes. The contractor shall provide coordination between the FAST system and tank supplier with regard to fabrication of the tank, installation of the FAST unit and delivery to the job site.
2. OPERATING CONDITIONS
The MicroFAST 0.75 treatment system shall be capable of treating the wastewater produced by typical family activities (bath, laundry, kitchen, etc.) ranging from (1) one to (11) eleven persons and not to exceed 750 US Gallons per day (2800LPD).
3. MEDIA
The FAST media shall be manufactured of rigid PVC, polyethylene, or polypropylene and it shall be supported by the polyethylene insert. The media shall be fixed in position and contain no moving or wearing parts and shall not corrode. The media shall be designed and installed to ensure that sloughed solids descend through the media to the bottom of the septic tank.
4. BLOWER
The MicroFAST 0.75 unit shall come equipped with a regenerative type blower capable of delivering 17-25 CFM [31-46m3/hr]. The blower assembly shall include an inlet filter with metal filter element.
5. REMOTE MOUNTED BLOWER
The blower shall be mounted up to 100 feet [30.5 meters] away and a maximum of 4 elbows from the MicroFAST unit on a contractor supplied concrete base. The blower must not set in standing water and its elevation must be higher than the normal flood level. A two-piece, rectangular housing shall be provided. The discharge air line from the blower to the MicroFAST System, shall be provided and installed by the contractor.
6. ELECTRICAL
The electrical source should be within 150 feet [45.7 meters] of the blower, consult local codes for longer wiring distances. All wiring must conform to all applicable codes(IEC, NEC, etc.). Wiring distances must prevent significant voltage loss. Input power on 60Hz electrical system is 110/220 VAC, single phase, 2.8/1.4 Amps. Input power on 50Hz electrical systems 127/230 VAC, single phase 0.352 kw/hr. All conduit and wiring shall be supplied by contractor.
7. CONTROLS
The control panel provides power to the blower with an alarm system consisting of a visual and audible alarm capable of signaling blower circuit failure and high water conditions. The control panel is equipped with SFR® (Sequencing Fixed Reactor) timed control feature. A manual silence button is included.
8. INSTALLATION AND OPERATING INSTRUCTIONS
All work must be done in accordance with local codes and regulations. Installation of the MicroFAST 0.75 shall be done in accordance with the written instructions provided by the manufacturer. An operation and maintenance manual shall be furnished which will include a description of system installation, operation, and maintenance procedures.
9. FLOW AND DOSING
FAST systems have been successfully designed, tested and certified receiving gravity, demand-based influent flow. When influent flow is controlled by pump or other means to help with highly variable flow conditions, then multiple dosing events should be used to help ensure even flow.
- 10.WARRANTY
Bio-Microbics, Inc. warrants all new residential FAST® models (MicroFAST® 0.50, 0.75, 0.90, and 1.5) against defects in materials and workmanship for a period of two years after installation or three years from date of shipment; whichever ever occurs first, subject to the following terms and conditions, (all other FAST® system models are warranted for a period of one year after installation or eighteen months from date of shipment, whichever occurs first, subject to the following terms and conditions):
During the warranty period, if any part is defective or fails to perform as specified when operating at design conditions, and if the equipment has been installed and is being operated and maintained in accordance with the written instructions provided by Bio-Microbics, Inc., Bio-Microbics, Inc. will repair or replace at its discretion such defective parts free of charge. Defective parts must be returned by owner to Bio-Microbics, Inc.'s factory postage paid, if so requested. The cost of labor and all other expenses resulting from replacement of the defective parts and from installation of parts furnished under this warranty and regular maintenance items such as filters or bulbs shall be borne by the owner. This warranty does not cover general system misuse, aerator components which have been damaged by flooding or any components that have been disassembled by unauthorized persons, improperly installed or damaged due to altered or improper wiring or overload protection. This warranty applies only to the treatment plant and does not include any of the structure wiring, plumbing, drainage, septic tank or disposal system. Bio-Microbics, Inc. reserves the right to revise, change or modify the construction and/or design of the FAST system, or any component part or parts thereof, without incurring any obligation to make such changes or modifications in present equipment. Bio-Microbics, Inc. is not responsible for consequential or incidental damages of any nature resulting from such things as, but not limited to, defect in design, material, or workmanship, or delays in delivery, replacements or repairs.
THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED. BIO-MICROBICS SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.
NO REPRESENTATIVE OR PERSON IS AUTHORIZED TO GIVE ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF ITS PRODUCTS. Contact your local distributor for parts and service.

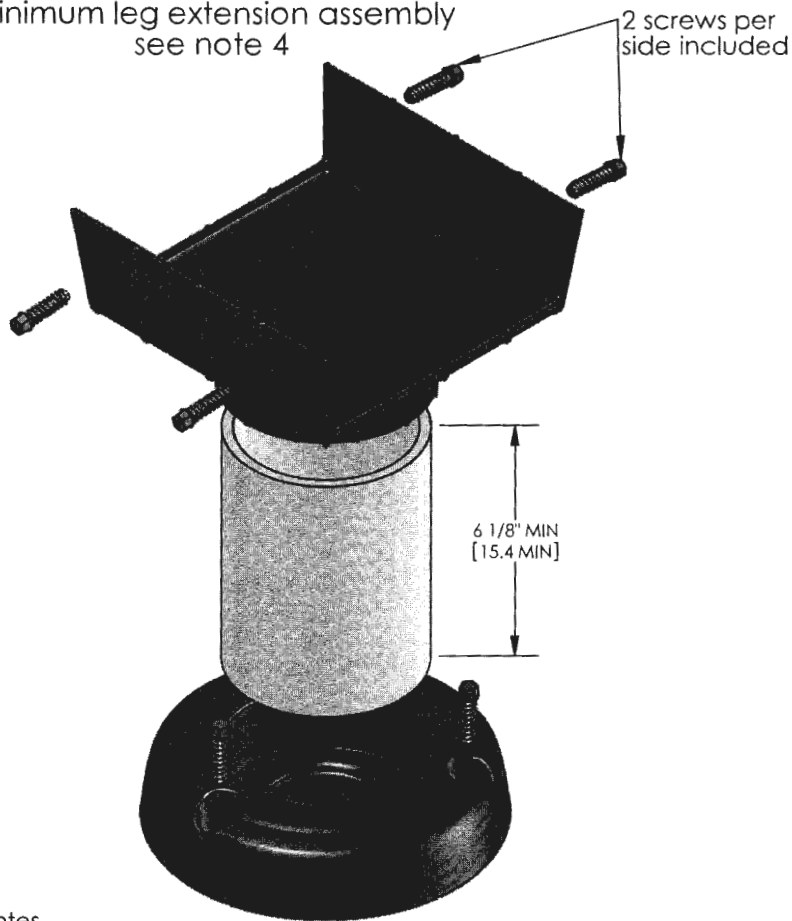


MicroFAST 0.75 FAST Unit

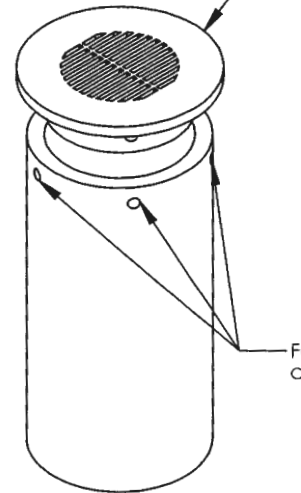
DO NOT SCALE		SIZE	DRAWING NUMBER	SHEET
UNLESS NOTED DIMENSIONS ARE IN INCHES [CENTIMETERS] TOLERANCES ± 0.02 IN/IN [± 0.05 CM/CM]				
WEIGHT	lb	REVISED	INI-04-G	
NAME DATE				
DRAWN CTC 12/18/2006				
CHECKED PF 1/15/2010				

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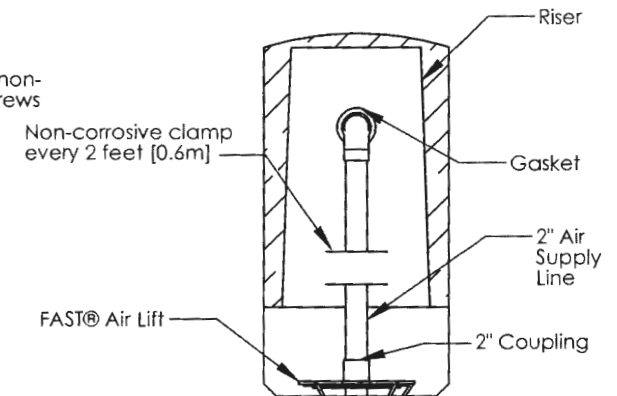
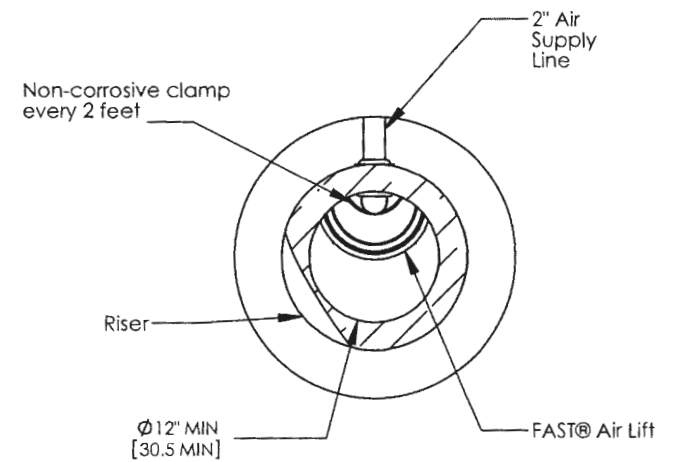
Minimum leg extension assembly
see note 4



NDS 6" Grate MIN
7.1 SQ in open
surface area



FAST@ Lid
Vent Option



Alternate Air Supply Option

Notes

1. Secure leg extension to the FAST@ unit by placing two screws on each side of the leg extension (4 screws per foot are included).
2. Cut 4" schd. 40 PVC pipe (not included) to obtain the desired height. Minimum pipe length of 6 1/8" [15.56cm]; Original leg extension height requires a pipe length of 11 1/8" [28.26cm]. For heights greater than 18" [45.7cm] use schd. 80 PVC pipe (not included). Consult factory for extending leg beyond 36" [91cm].
3. Anchor the leg extensions to the tank with non-corrosive hardware (not included) at the provided mounting points.
4. Increase minimum tank volume by 20% if the minimum leg extension is used.
5. The air supply line into the FAST@ unit must be secured so as to prevent damage from pipe vibration. See all notes on *MicroFAST@ 0.75 with lid* drawing
6. The air supply line into the FAST@ unit must be secured to prevent vibration induced damage. The air supply line should be secured with a non-corrosive clamp every 2 ft [0.6m] minimum.
7. Tank, anchors, piping conduit, blower, housing pad and vents are provided by others.

DO NOT SCALE
UNLESS NOTED
DIMENSIONS
ARE IN INCHES
[CENTIMETERS]
TOLERANCES
± 0.02 IN/IN
[± 0.05 CM/CM]

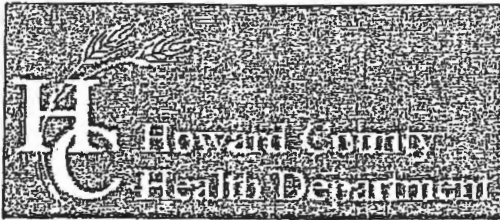


MicroFAST 0.75 FAST Unit

WEIGHT	lb	SIZE	DRAWING NUMBER	SHEET 4 OF 4
NAME	DATE	A	MicroFAST@ 0.75 Details	
DRAWN	CTC	12/18/2006	REVISED 1/15/2010	REV. INI-04-G
CHECKED	PF	1/15/2010		

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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

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

INFORMATION FORM - SEPTIC SYSTEM REPAIR/UPGRADE

Reason for Request:

- Reason for Request:
- [] Failing System
- [] System relocation for proposed addition
- [] System upgrade for proposed addition
- [] Inadequate treatment zone
- [] Collapsed septic tank
- [] Collapsed drywell

Has the septic tank been pumped within the last month?

- Has the septic tank been pumped within the last month?
- [] Yes Date pumped:
- [] No

Was a visual inspection of the septic tank and/or drain fields conducted?

- Was a visual inspection of the septic tank and/or drain fields conducted?
- [x] Yes Explain observations:
- [] No

Existing system design

- Existing system design
- [] Drywell
- [x] Trench
- [] Mound
- [] Unknown
- [] Other:

Was a visual inspection of the sewage line conducted?

- Was a visual inspection of the sewage line conducted?
- [] Yes
- [] No
Blockage leading to the tank
- [] Yes. Explain:
- [] No
Blockage leading to the field
- [] Yes. Explain:
- [] No

Is discharge surfacing on the ground?

- Is discharge surfacing on the ground?
- [] Yes
- [x] No

Additional Comments: Relocate existing tank

*For REPAIRS, are the owners proposing, or do they plan to add in the future, any additions or modifications to the property, i.e. pools, living space additions, garages, etc? This information must be disclosed at the time of this application. The Health Department will not be able to accommodate requests in the field for property modifications unrelated to the repair request. Such requests may require an additional fee, testing, and submittal of a Percolation Certification Plan, if the property does not meet current Code and Regulation.

Septic Contractor: Hatfield's Equipment Contractor's Phone: 301 490 4289
Contractor's Address: P.O. Box 519 Annapolis Junction MD 20781

Property Address: 13673 Nichols Drive County file:
Subdivision: Lot: Year Built:
Owner's Name: Criss Watson Owner's Phone:

Name of previous owners: Existing bedrooms:
Proposed bedrooms:

Has this request been previously discussed with a Sanitarian? (Name): Robert
Public Sewer available/nearby:

*A Sanitarian will be in contact within three business days, depending upon the urgency of the situation, to coordinate the scheduling/review of the repair or upgrade.

Prior to scheduling inspections, scaled plans should be submitted to clarify the nature of the addition.

Print out a copy of Real Property Data via Dept. of Taxation website Indexed file found

If public sewer may be nearby, verify whether sewer is technically "available" through the Bureau of Engineering.

If sewer is available and the property is within the Metropolitan District, connection to sewer is required. If the owner believes reason for exemption exists, the owner should justify the request in writing.

If soil/site conditions are limited and sewer and/or Metro District status is not conducive to connection, the Sanitarian may recommend pursuit of Emergency Sewer Extension or Emergency Metro District Inclusion. The Owner should contact the Bureau of Utilities for details.

No permit is to be issued nor inspection to be scheduled without prior fee collection at the office unless an emergency situation exists. The contractor is to notify office of the emergency situation as soon as possible.

RECEIVED
APR 05 2017
HOWARD COUNTY HEALTH DEPT.
BUREAU OF ENVIRONMENTAL HEALTH

SDP-22-005 Bolder Restaurant 17004 Frederick Rd.
Mt Airy, MD 21771

top map 07
parcel 288

Colbert Metz
Rosenthal, LLC

F-22-012

3300 N. Ridge Rd
Sub 110

Wharff Lane Minor Subdivision

lots 1, 2, 3

map 31

Parcel 4

4935 Wharff Ln
Ellicott City, MD 21043

owner
Jae Wook Shin

Ellicott
4905 Wharff Ln
410-410-1043

owner
Jae Wook Shin
4905 Wharff Lane
Ellicott City, MD 21043

202-415-7414

410-653-3838
2835 Smith
Ave #6
Balt, MD
21029

Vogel Engineering
Timmons Group



HOWARD COUNTY HEALTH DEPARTMENT

60596

DATE 4 15 17

P5

Received From

Hatfield's Equip.

PHONE #

301 490-4289

and Calibration services

For

Septic Permits / Relocations

CASH

CHECK

of Tanks 13675 Nichols Dr.

NO.

3187

Three Hundred Ninety Seven

Dollars

\$

396.00

Received By

Skinn