

LAYOUT 5/15/10 INSP 4 6/1/10
 INSP 2 5/18/10 INSP 5 _____
 INSP 3 5/27/10 INSP 6 _____

ISSUE DATE: 5/26/10

PERMIT-

P 532536

APPROVAL DATE: 8/2/2010

Biometrics Microfast 0.5
 Tax ID # 05341698

A 522036

**ON-SITE SEWAGE DISPOSAL SYSTEM
 HOWARD COUNTY HEALTH DEPARTMENT
 BUREAU OF ENVIRONMENTAL HEALTH**

Hatfield's Equipment _____ IS PERMITTED TO INSTALL ALTER

ADDRESS: P.O. Box 519 Annapolis Junction, MD 20701 PHONE NUMBER: 410-984-0047

SUBDIVISION: Brighton Farms LOT NUMBER: 2

ADDRESS: 13590 Brighton Dam Road PROPERTY OWNER: Ryan McWhorter

SEPTIC TANK CAPACITY (GALLONS): 2000 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): 750 COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4 APPLICATION RATE: 0.6

SQUARE FOOTAGE OF HOUSE: 5700

LINEAR FEET OF TRENCH REQUIRED: 240

TRENCHES:	Trenches to be 3.0 feet wide. Inlet 2.0 feet below original grade. Bottom maximum depth 3.5 feet below original grade. Effective area begins at 2.0 feet below original grade with 1.5 feet of stone below distribution pipe.
LOCATION:	Install 6- inch Sanitary Tee as filter housing prior to pump chamber. Set septic tank w/ Biomicrobics 0.5 unit per layout inspection. Set distribution box about 5' uphill of NW septic reserve corner, slightly down hill of top trench. Install 5 trenches on contour: 1x40' at top, then 4x50'. TRENCH DEPTHS ARE MEASURED ON DOWNHILL SIDE.
NOTES:	Do not order the septic tank until after layout inspection and Sanitarian approval. Stake reserve corners. Call for layout inspection. Mark utilities. Gravel tickets must be available for Environmental Sanitarians. Stone must be approved by the Howard County Health Department. A written variance request is required for tanks deeper than 3 feet. A traffic bearing lid is required for tanks deeper than 4 feet. System must pass pump & alarm test for final septic system approval.

Note: * Certification start – up letter from manufacturer needs to be sent into Health Depart. Prior to septic system approval. *****

PLANS APPROVED: Robert Bricker DATE: 5/19/10

- NOTE: PERMIT VOID AFTER 2 YEARS
- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

NEITHER THE HOWARD COUNTY COUNCIL OR 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 FOR INSPECTION OF SEPTIC SYSTEM

NOT TO SCALE

See As-Built Drawing
On Separate Sheet

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	2'	3.5'
NUMBER OF TRENCHES		6
TOTAL LENGTH		260
ABSORPTION AREA		780' Sidewalk
DISTRIBUTION BOX LEVEL		Yes
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		Yes

SEPTIC TANK DATA

SEPTIC TANK I LEVEL

MANUFACTURER Babylon

CAPACITY 2000 GAL

SEAM LOC Top

TANK LID DEPTH 0.5'-2.5'

BAFFLES Front

BAFFLE FILTER No

MANHOLE LOC Front+Rear

6" PORT LOC 2 Middle

WATERTIGHT TEST No

SLOTTED No

PUMP/SEPTIC TANK LEVEL

MANUFACTURER _____

CAPACITY _____ GAL

SEAM LOC _____

TANK LID DEPTH _____

BAFFLES _____

BAFFLE FILTER _____

MANHOLE LOC _____

6" PORT LOC _____

WATERTIGHT TEST _____

SLOTTED _____

Same
Tank

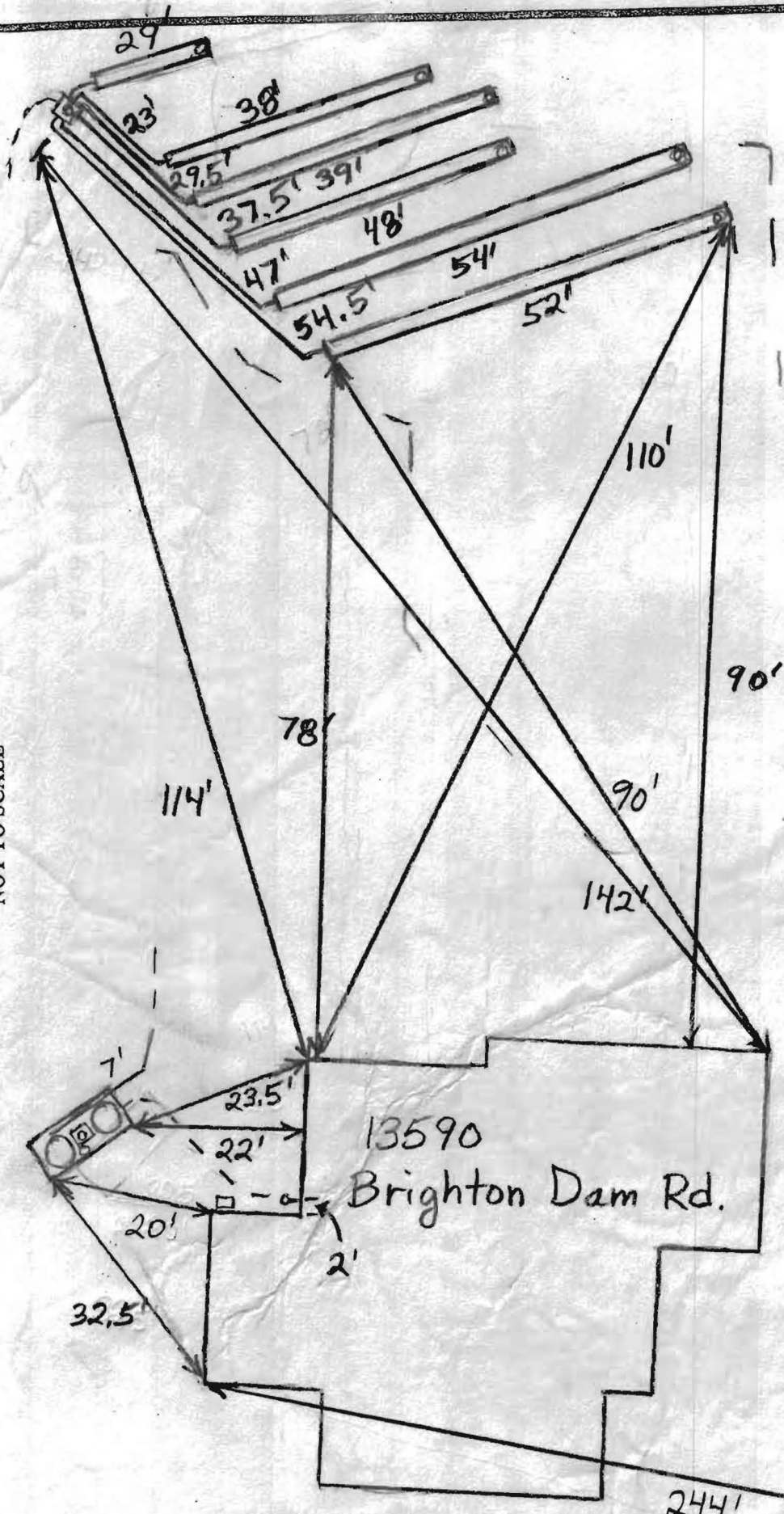
PRE-CONSTRUCTION

5/14/2010 Did layout to put trenches in lower part of area but homeowner didn't

want the system there. (BB) 5/18/2010 Kevin did second layout with trenches in higher part of area. (BB) 5/27/2010 INSTALLATION: Tank set. Had to use jackhammer. (BB) 6/1/2010 Trenches finished. Need pump and alarm test and verification that HOOT unit is working properly. (BB) 8/2/2010 Pump and alarm working. HOOT representative on site. He said system is working properly. (BB)

FINAL INSPECTOR B. Baber DATE OF APPROVAL 8/2/2010

NOT TO SCALE



1" = 20'

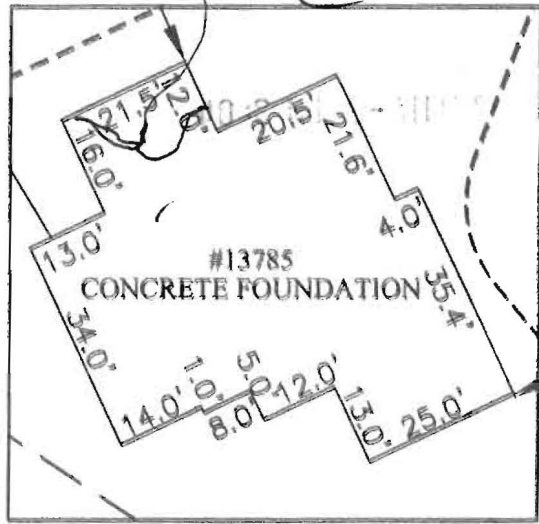
13590
Brighton Dam Rd.

244' HO-95-1790

44'

Nichols Drive

Extension not shown in original proposal (B08003416)



FOUNDATION DETAIL
SCALE: 1" = 30'

Wall check OK 5/4/10

LOT 1
BRIGHTON FARMS
ESTATES
P.B. 5, PG. 31

LOT 2
BRIGHTON
FARMS ESTATES
P.B. 5, PG. 31
3.05 Ac.

LOT 3
BRIGHTON FARMS
ESTATES
P.B. 5, PG. 31



CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	532.25'	88.25'	88.15'	S 70°38'58" W	09°30'00"
C2	30.00'	41.72'	38.44'	N 64°45'50" W	79°40'46"

SURVEYOR'S CERTIFICATE
I hereby certify to the best of my knowledge and belief that the property delineated hereon is in accordance with the Plat of Subdivision and/or deed of record. No Title Report has been furnished.
That the improvements were located by accepted field practices and include permanent visible structures and encroachments, if any; and
(i) is of benefit to a consumer only insofar as it is required by lender or title insurance company or its agent in connection with contemplated transfer, financing or refinancing;
(ii) is not to be relied upon for the establishment or location of fences, garages, building or other existing or future improvements;
(iii) does not provide for the accurate identification of property boundary lines, but such identification may not be required for the transfer of title or securing financing or refinancing.

Jefferson D. Lawrence 4-26-10
For: O'Connell & Lawrence, Inc., Jefferson D. Lawrence,
Professional Land Surveyor, MD No. #5216



BUILDING PERMIT #

O'Connell & Lawrence, Inc.
Construction Consultants, Engineers, Surveyors
17904 Georgia Avenue, Suite 302
Olney, Maryland 20832
Tel: (301) 924-4570 * Fax: (301) 924-5872

WALL CHECK
LOT 2
BRIGHTON FARMS ESTATES
PLAT BOOK 5, PAGE 31
(5TH) ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

Date	4/26/2010
Scale	1"=100'
Job No.	008-021

FREEMIRE & ASSOCIATES, INC. / QUOTATION

1215 Old Dorsey Road, Harmans, Maryland 21077

PH: (410) 768-8500 FAX: (410) 768-3400

TO: Hatfield Equipment
ATTN: Ken Hatfield
FAX: 301-490-5794

DATE: March 2, 2010

QUOTE NO.: 210102-IJ

REF: Bio-Microbics
ADDRESS:

F.O.B.: Warehouse

TERMS: Net 30 Days with Approved Credit

QUOTE VALID FOR: 30 Days

DELIVERY: Stock to Two (2) Weeks

BY: Ian Johnston

Here is our quotation on the goods named, subject to the conditions noted:

CONDITIONS: The prices and terms on this quotation are not subject to verbal changes or other agreements unless approved in writing by the Seller. All quotations and agreements are contingent upon strikes, accidents, fires, availability of materials and all other causes beyond our control. Prices are based on costs and conditions existing on date of quotation and are subject to change by the Seller before final acceptance. Typographical errors subject to correction. Purchaser assumes liability for patent and copyright infringements when goods are made to Purchaser's specifications. Conditions not specifically stated shall be governed by established trade customs. Terms inconsistent with those stated herein which may appear on Purchaser's formal order will not be binding to the Seller.

TITLE OF GOODS: It is agreed by the parties that title, both legal and equitable, to the goods covered by this contract is to remain vested in the seller until the full purchase price, together with all interest charges, has been paid. In case of the customer's default in payment in whole or in part or failure by the customer in any way to comply with the terms of this contract, the seller or its legal representative may and is hereby authorized and empowered to enter upon the customer's premises and repossess, dismantle, and remove said goods including any goods which may have become a fixture. The Seller shall have the option of availing itself of the benefits of the local law in addition to the rights and remedies given in this paragraph it being expressly agreed that such rights and remedies shall be cumulative.

TERMS: Purchase Order or Signed Purchase Agreement **PAYMENT:** NET 30 days from invoice date unless noted otherwise, all applicable federal and state taxes not included. Past due accounts are subject to 2% per month service charge, annual percentage rate of 24%. An attorney fees and expert costs incurred in collection of past due accounts will be added to amount due. **F.O.B.:** Shipping Point. Quoted prices are protected for 30 days unless otherwise noted. **RETAINAGE:** No money can be withheld for retainage unless agreed upon in advance in writing.

DESCRIPTION

NET EACH

750	Tank	750	500
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Bio-Microbics Model 0.5 Pretreatment Unit complete with Blower, Control Panel, Insert and Lid.

2000 Gallon T.S. 3-Compartment Septic Tank w/ Goulds Pump and control panel to Howard County

TOTAL: \$

Specifically Excluded:

- Installing and wiring of Blower and Pressure Switch
- Furnishing and Installation of Blower Pipe

NOTE: Maintenance Contract included is inspection ONLY.
All pump outs are charged at the time of service.
Tank Must be filled to proper operation level and have power on at time of start-up.

Brian Baker - Copy



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

THIS AGREEMENT is made this 1st day of March, 2010, among RYAN MCWHORTER hereinafter 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 Brighton Farms, Lot 2 (Tax Map 34, Parcel 108), in the 05-11 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 11389, Folio 523.

WHEREAS, The Lot is suitable for the installation of a conventional on-site sewage disposal system, but an advanced pre-treatment system, utilizing best available technology to perform nitrogen reduction, must be installed as part of the sewage disposal system for a 4-bedroom home with 4500 square feet of finished living space and 3340 square feet of unfinished living space. Advanced pre-treatment has been required for an existing lot of record that does not have enough area available for an initial and two replacement on site sewage disposal systems.

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.

DATE: 3/15/10

[Signature]
Owner RYAN MCWALTER

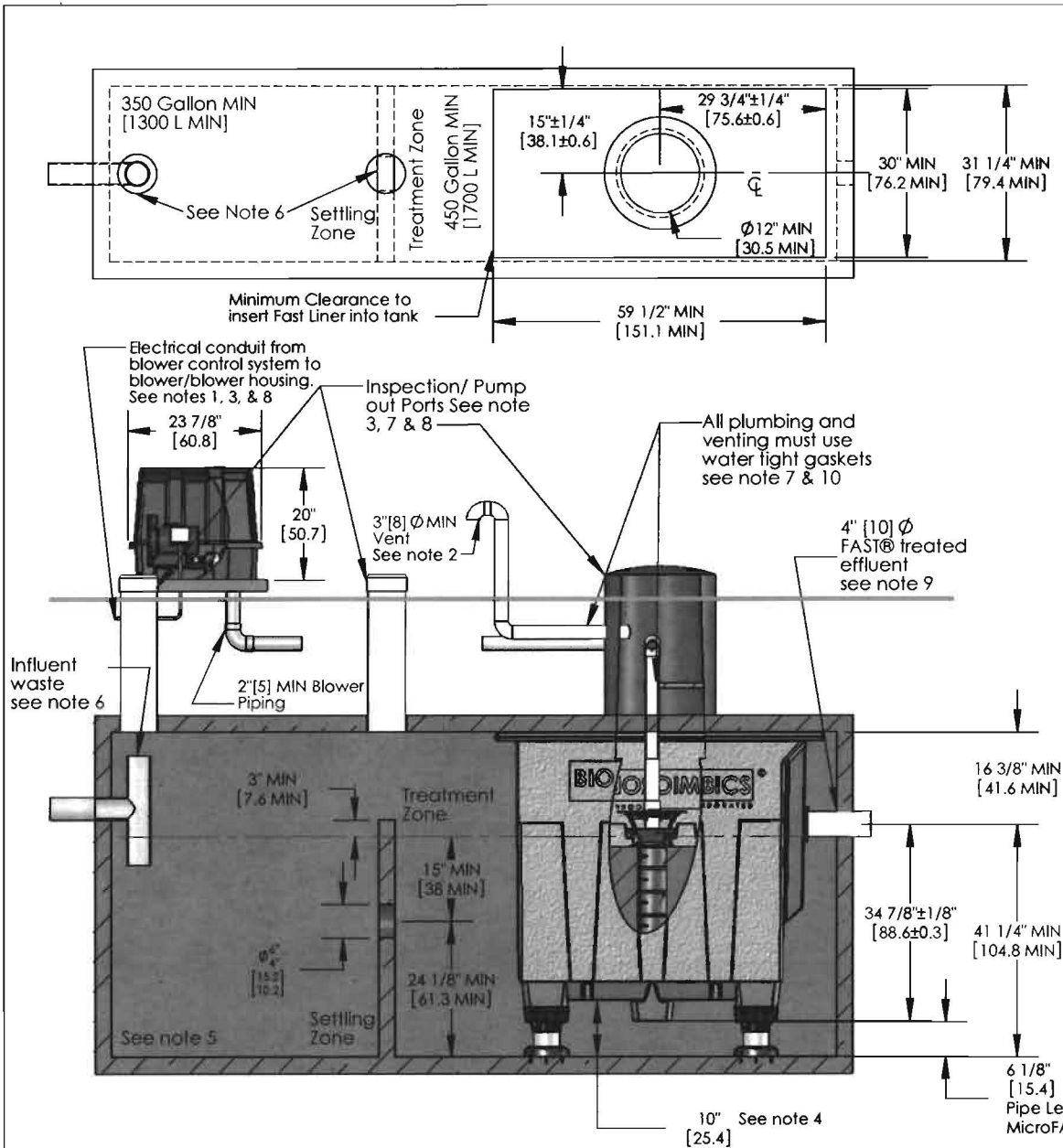
DATE: _____

[Signature]
Owner

DATE: 3/15/2010

[Signature]
Howard County Health Department
Peter L. Beilenson, M.D., M.P.H., Health Officer

THE FIDELITY & SECURITY	24.00
RECORDING FEE	25.00
TOTAL	49.00
REC'D PUBLIC	RCPL 1 05000
APR 1 2010	010 1 010
MAR 15 2010	1145 AM



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] min.
- 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® 0.50 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 [60 cm]. See alternate air supply option on sheet 4 of 4 *MicroFAST® 0.50 Details*.
- Min. height may be reduced, consult factory and reference "Short-FAST-Module-Procedure.pdf".
- Refer to sheet 4 of 4 *MicroFAST® 0.50 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 0.50 FAST Unit

WEIGHT	lb	SIZE	DRAWING NUMBER	SHEET 2 OF 4
NAME	DATE	A	MicroFAST® 0.50 with feet	
DRAWN	CTC	12/18/2006		
CHECKED	PF	1/15/2010	REVISED 1/15/2010	REV. INI-03-N

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BIO-MICROBICS © 2010

Specifications for MicroFAST 0.50 Wastewater Treatment System

1. GENERAL
The contractor shall furnish and install (1) MicroFAST@0.50 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 0.50 unit shall be situated within a 450 Gallon [1700L] minimum compartment or tank as shown on the plans, or in a 800 gallon [3000L] one compartment tank. Suggested maximum settling zone is (1) X 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 0.50 treatment system shall be capable of treating the wastewater produced by typical family activities (bath, laundry, kitchen, etc.) ranging from (1) one to (8) eight people and not to exceed 500 US Gallons per day (1800 LPD).

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 0.50 unit shall come equipped with a regenerative type blower capable of delivering 17-25 CFM [31-46 m3/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 use 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, installation and connections of the MicroFAST 0.50 shall be done in accordance with the written instructions provided by the manufacturer and in accordance with all applicable local codes and regulations. Operations manuals shall be furnished, which will include a description of installation, operation, and system 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 which 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.

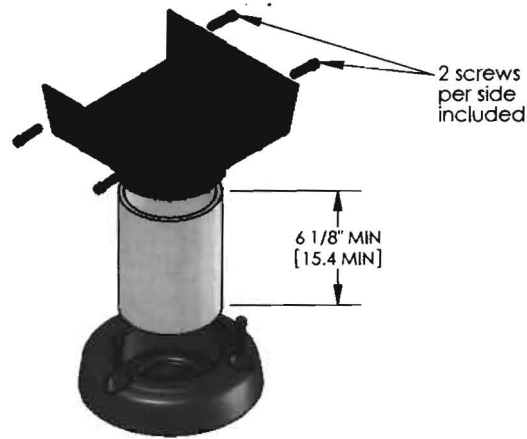
THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED. BIO-MICROBICS SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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.

DO NOT SCALE		 <p>BIO-MICROBICS INCORPORATED</p>	<p>MicroFAST 0.50 FAST Unit</p>
<p>UNLESS NOTED DIMENSIONS ARE IN INCHES [CENTIMETERS] TOLERANCES ± 0.02 IN/IN [± 0.05 CM/CM]</p>			
WEIGHT	lb	SIZE	DRAWING NUMBER
		A	MicroFAST@ 0.50 Specifications
DRAWN	CTC	DATE	12/18/2006
CHECKED	PF	DATE	1/15/2010
		REVISED	1/15/2010
		REV.	INI-03-N
<p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BIO-MICROBICS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BIO-MICROBICS INC. IS PROHIBITED. DESIGN AND INVENTION RIGHTS ARE RESERVED. IN THE INTEREST OF TECHNOLOGICAL ADVANCEMENT, ALL PRODUCTS ARE SUBJECT TO DESIGN AND OR MATERIAL CHANGE WITHOUT NOTICE.</p>			<p>SHEET 3 OF 4</p>

BIO-MICROBICS © 2010

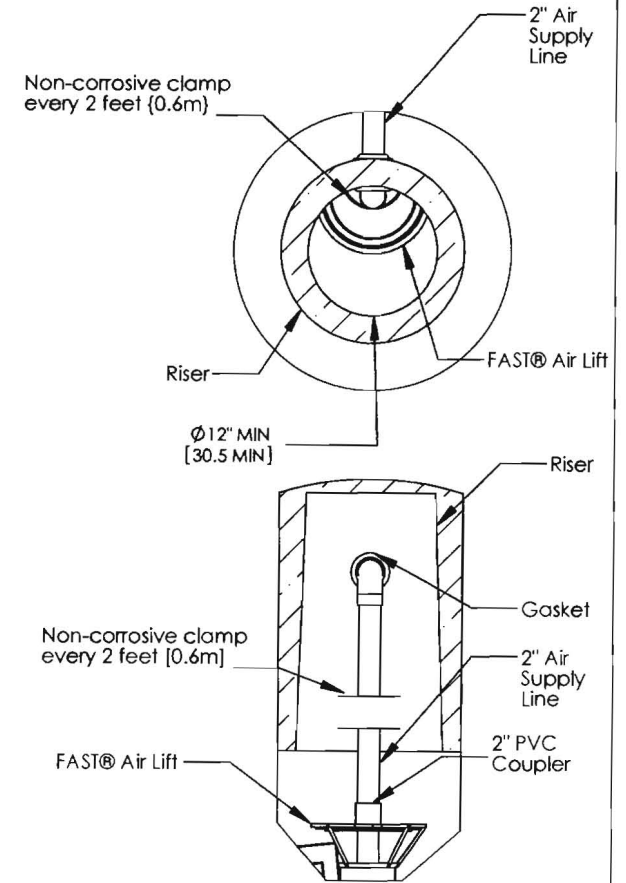
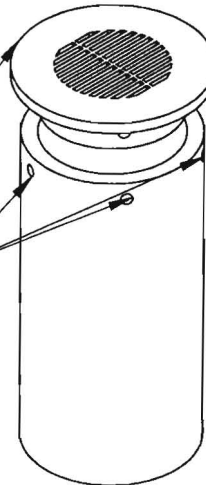
Minimum leg extension assembly
see note 4



FAST® Vent
Option

NDS Grate MIN 7.1 in
SQ [45.8 cm SQ] of
open surface area

Fasten with non-
corrosive screws



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" [9cm].
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® 0.50 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 2ft [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 0.50 FAST Unit

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BIO-MICROBICS © 2010

WEIGHT	lb	SIZE	DRAWING NUMBER	SHEET 4 OF 4
NAME	DATE	A	MicroFAST® 0.50 Details	
DRAWN	CTC	12/18/2006		
CHECKED	PF	1/15/2010	REVISED 1/15/2010	REV. INH-03-N

Attention
Robert Bricker

Babylon

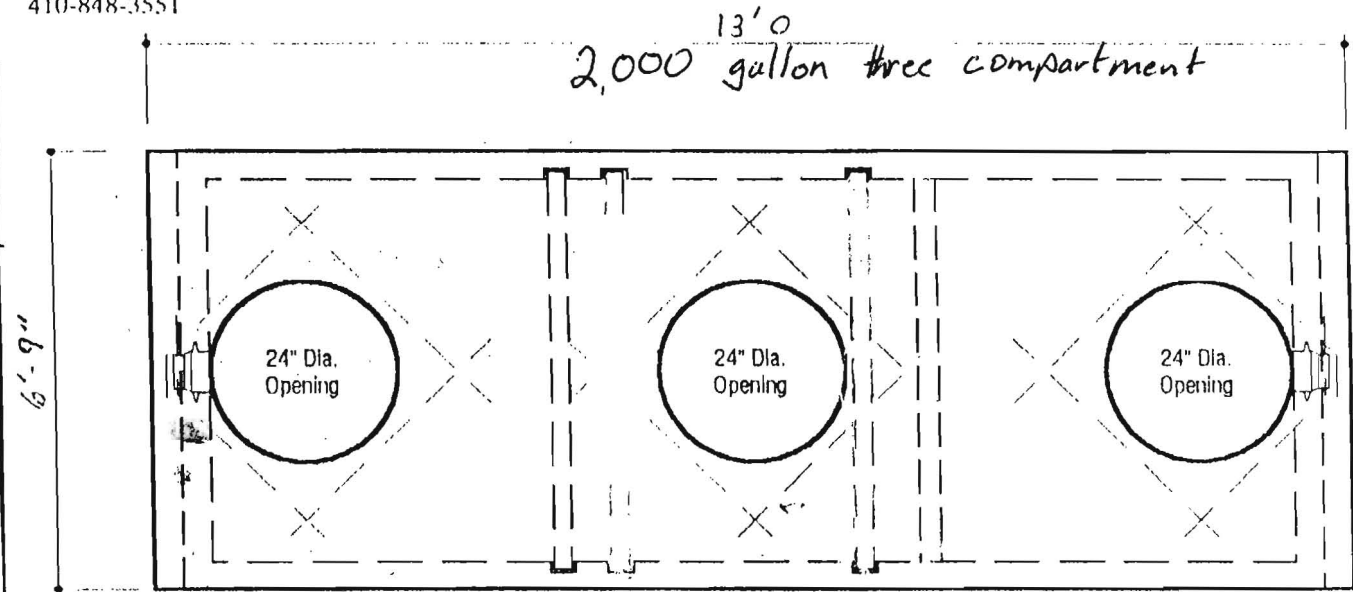
RE Brighton Pines
Lot 2

V A U L T
S I N C E 1 9 3 0

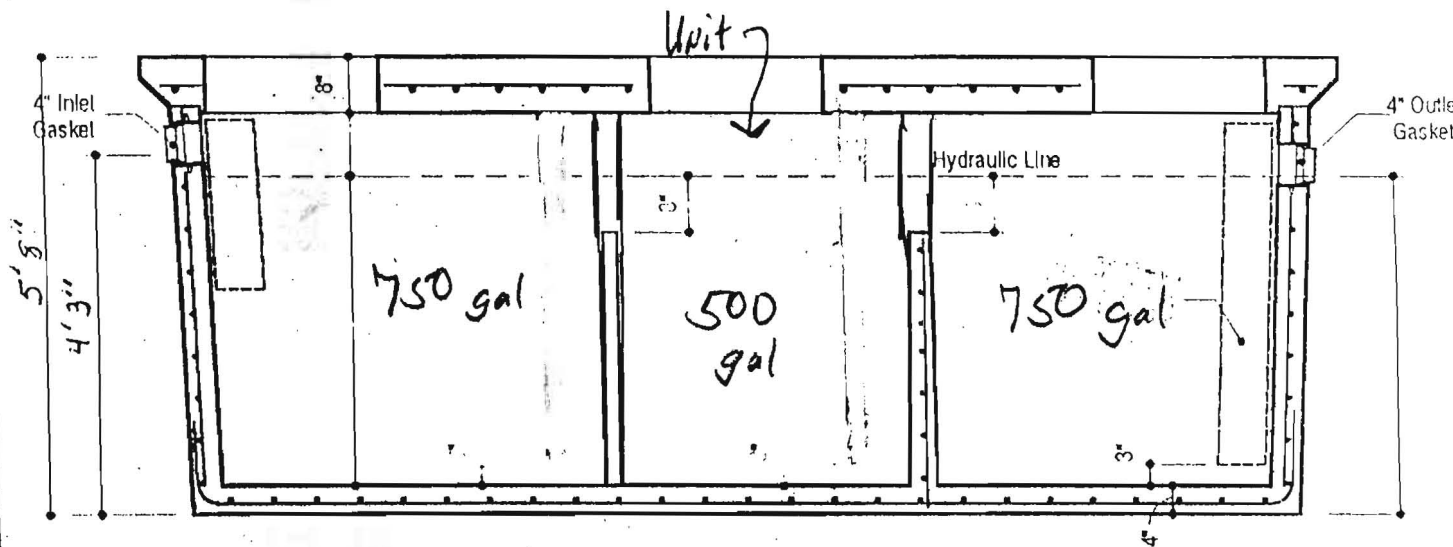
Burial Vaults - Septic Tanks

PHONE: 410-848-0393
FAX: 410-848-3551

925 WAKEFIELD VALLEY ROAD
NEW WINDSOR, MD 21776



PLAN VIEW



SECTION VIEW

DESIGN DATA & GENERAL NOTES

- [1] Concrete strength f_c - 6000 p.s.i. @ 28 days. Density = 150 pcf.
- [2] Cement - Portland Type I/A per ASTM C 150-92.
- [3] Admixtures & plasticizers per ASTM C 260 86 & C 494-92.
- [4] Reinforcing per ASTM A615, Grade 60, domestic. Min. 1-1/2" cover.
Walls, base, & top slab designed for HS-20 loading.
- [5] Top slab sealed with butyl rope mastic.
- [6] Maximum 5' of earth cover over top slab.

FILE INQUIRY NOTES

DATE	RESULTS OF REVIEW FOR FILE
5/7/2010	OK to schedule layout inspection
	based on specifications presented on spec sheet, i.e.
	1500-gal tank (to be fitted with 0.5 MicroFast unit)
	& 1250-gal pump chamber.
	* See Site Plan for Septic Elevations.
	4x70' Trenches to be installed in lower portion of septic reserve, centered on Porc Test #2
	R. Bricker
	Hitfield's to submit Technical drawing for setup of MicroFast unit & pump chamber
	Radium