

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: 10/6/14 **ONSITE SEWAGE DISPOSAL SYSTEM** 555256
 INSTALLATION 5/5/15 SEC
 APPROVAL DATE: 10/22/2014 **PERMIT** A _____
CONSTRUCTION

PROPERTY ADDRESS: 6118 Tulane Drive
 SUBDIVISION: Heritage Hills LOT: 12 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: Cary and Michelle Ho EMAIL: _____
 OWNER ADDRESS: 6118 Tulane Drive, Clarksville, MD 21029 PHONE: 410-807-2444

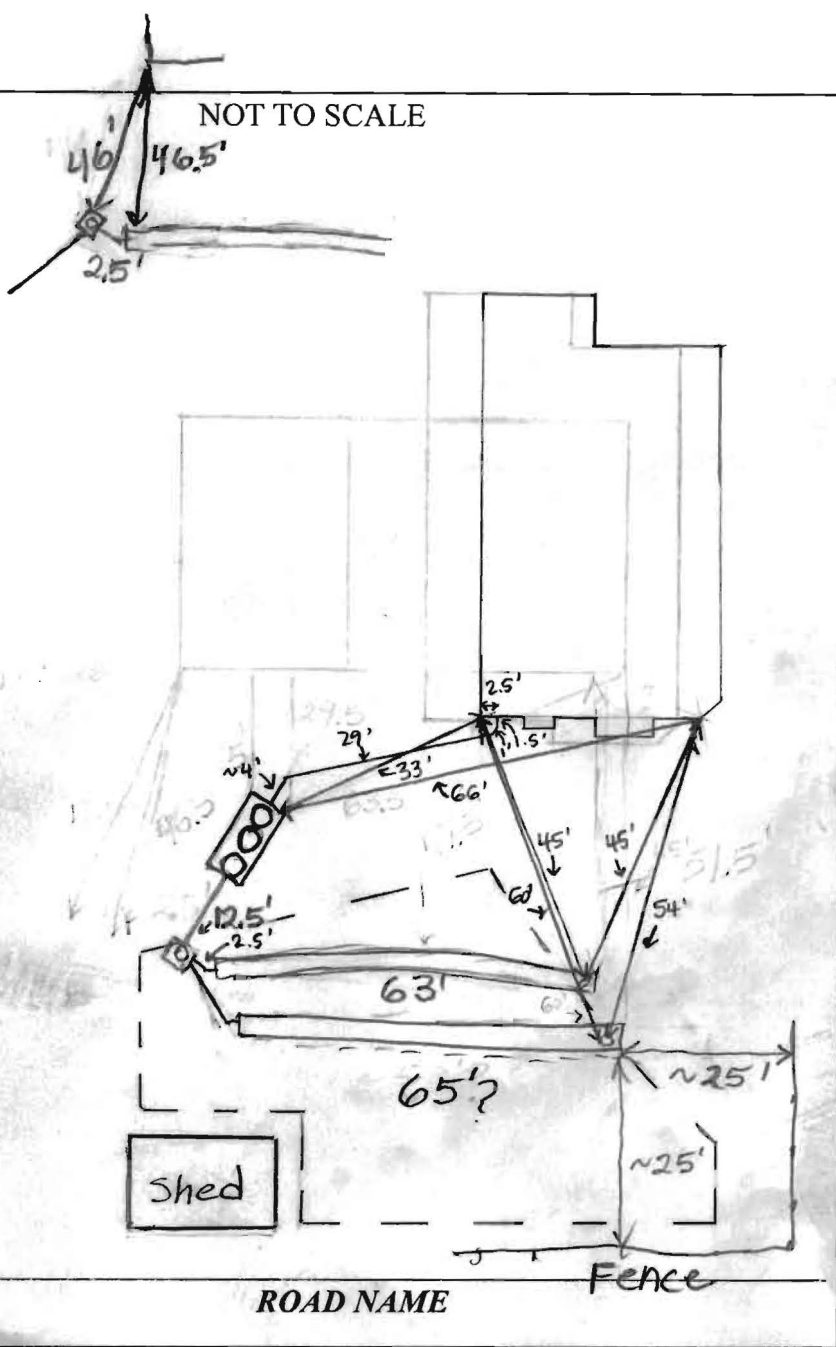
BAT UNIT MODEL: Norweco PUMP SIZE: _____ PUMP TANK CAPACITY: _____
 DISTRIBUTION SYSTEM: GRAVITY LOW PRESSURE DOSED NUMBER OF BEDROOMS: 4

TRENCHES:	LINEAR FEET REQUIRED: <u>120'</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>2</u>	MAXIMUM BOTTOM DEPTH: <u>10</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4</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. Set distribution box for gravity flow to existing trench. Install 2 x 58' trenches on contour with 10 feet of spacing.	

ISSUED BY: Robert Bricker ISSUE DATE: 10/6/14 EXPIRATION DATE: 10/6/15

- 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
- 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.**



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
2'	4'	10'
NUMBER OF TRENCHES 2		
TOTAL LENGTH 128'?		
ABSORPTION AREA 768'?		
DISTRIBUTION BOX LEVEL Yes		
DISTRIBUTION BOX BAFFLE Yes		
DISTRIBUTION BOX PORT Yes		

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	Yes
MANUFACTURER	Back River Norweco
CAPACITY	1300 GAL
SEAM LOC	Top
TANK LID DEPTH	1'-2'
BAFFLES	No
BAFFLE FILTER	N/A
MANHOLE LOC	Front, Middle + Rear
6" PORT LOC	None
WATERTIGHT TEST	No
SLOTTED	N/A
DATE ON LID	9/21/2014
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:

10/7/14 met onsite w/ contractor. House to remain during septic install. Tank location given. Need to expose ex. trench, verify grade and fill (if any) on ex. trench inst. New tank loc. to be determined based on this information. Ex. drywell in direct loc of proposed trench. (CW)

INSTALLATION: 10/17/2014 Tank set, Box installed, Top trench covered. Working on bottom trench. (BB)

10/20/2014 System finished except for BAT certification from Norweco representative. (BB) 10/22/2014 All conditions met. System finished and approved. (BB)

4/28/15 Site visit to inspect connection to new house. No work done - builder said S. Carroll had been on site to check elevations. (SC) 4/29/15 Spoke w/ builder on phone - using S. Carroll to finish install b/c of payment issues + Hatfield's refuses to work for Classic Homes. (SC) 5/5/15 Connection to house complete. (SC)

FINAL INSPECTOR B. Baker DATE OF APPROVAL 10/22/2014
5/5/15 SEC

Back River Pre-Cast, LLC

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

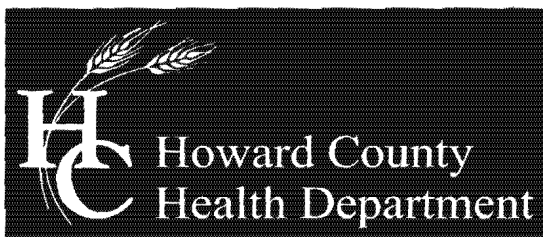
Letter of Certification

This is to certify that the Norweco Singlair TNT 600 GPD Septic Tank installed at 6118 Tulane Dr., Clarksville, MD 21029 October 17, 2014 was installed according to the manufacture's specifications.

Installer: Jeff Reiter



MATTHEW GECKLE
Vice-President



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

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

November 20, 2014

Cary and Michelle Ho.
12408 Pretoria Drive
Silver Spring, Maryland 20904

RE: Variance request
6118 Tulane Drive
Tax Map 34 Parcel 123
Howard County, Maryland

Dear Mr. & Mrs. Ho,

The Health Department submitted a variance request on your behalf and in relation to a re-development proposal for your property at 6118 Tulane Drive (Howard County Tax Map 34, Parcel 123). The septic system planned for the subject property is upgradient of the well at 6126 Tulane Drive.

Consideration of the soil conditions and percolation test results, assumed groundwater flow patterns, landscape position, and documentation of water quality at the primary well location were some of the factors used in making our recommendation for approval.

The Maryland Department of the Environment (MDE) has accepted our recommendation to approve the variance request.

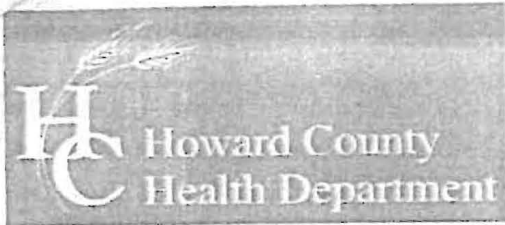
For reasons other than issues related to the variance for downgrade wells, the nearest well (re: the well on the subject property) is sealed, and a Best Available Technology (BAT) unit is being installed as an upgrade for the septic system. Therefore, no additional conditions have been specified for approval of this variance.

If you have any questions regarding this letter, you may contact me at the above address or by calling (410) 313-1771.

A handwritten signature in black ink, appearing to read 'Jeffrey Williams'.

Jeffrey Williams, L.E.H.S.
Program Supervisor
Well and Septic Program

COPY: Steven Krieg, Maryland Department of the Environment



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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 28th day of April, 2014, among Cary Ho & Michelle H. Ho, 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 6118 Tulane Drive, Clarksville, Md., 21029, 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 15469 Folio 005.

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.

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.

Crosby 4/28/2014
Owner Date

Michelle 4/28/2014
Owner Date

Red Nye 4/28/2014
Howard County Health Department

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 - Easement (No-Taxes) Recording Fee
1x 20.00 20.00

Grantor Name: ho
Reference/Control #: 58

LR - Easement (No-Taxes) Surcharge
1x 40.00 40.00

SubTotal: 60.00
Total: 60.00

REV-Check-BOA 60.00
Number : 1122

04/28/2014 10:35 CC13-KC
#2720161 /496/109

Thank you for visiting us today~

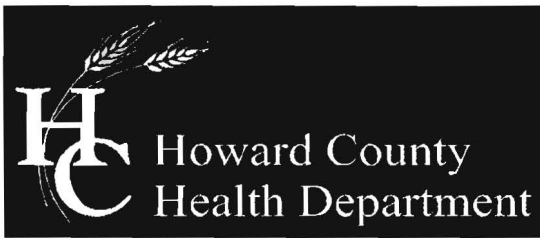
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Maura J. Rossman, M.D., Health Officer

MEMORANDUM

Sent via email to douglasmyers@gmail.com on 8/19/2014

TO: Douglas Myers

FROM: Kevin M. Wolf, R.E.H.S./R.S., LEHS 
Environmental Health Specialist Supervisor
Groundwater Mgmt. Sec.

DATE: August 19, 2014

RE: **6118 Tulane Drive**
Clarksville, MD 21029
M. 34, G.12 P. 123- 19,994 SF
(Demolition of existing structure – rebuild new SFD)

This is to advise that the Howard County Health Department recommends issuance of the demolition permit for the above referenced property.

The existing well (Tag unknown) that was utilized for the above referenced property has been located and sealed according to *COMAR 26.04.02 abandonment standards*. Documentation was submitted by the developer to this office to confirm well abandonment completion. This process was completed on 8/14/2014 by Allen Compten (MSD 009). Future development plans on the subject property will have public water access.

The existing septic system on this property has been properly located and pumped out by Fogle's Septic Clean. Documentation invoice was received by our office for compliance. The existing septic tank and components will be crushed in and backfilled with clean fill/stone during demolition of the existing house. Confirmation that this task has been completed must be submitted to our office for review of completion.

Current utility records show this parcel has access to public water only. If you plan to re-build on this parcel, you will need to connect to public water per Howard County specifications and regulations. The onsite septic system must be installed per Howard County specifications and regulations (i.e. approved BAT Site Plan).

IF ANY WELL OR SEPTIC COMPONENTS ARE FOUND DURING SITE WORK, YOU MUST NOTIFY THIS OFFICE IMMEDIATELY!!

KMW
Cc: File

REQUEST OF WAIVER

Date: June 3, 2014

Re: Setback from Septic Easement
Cary Ho & Michelle H. Ho
6118 Tulane Drive
Clarksville, Md., 21029

To: Mr. Jeff Williams, Supervisor
Development Coordination Section
Well & Septic Program
Howard County Bureau of Environmental Health
8930 Stanford Boulevard
Columbia, Md., 211045

We, Cary Ho and Michelle H. Ho, owners of the property located at 6118 Tulane Drive, Clarksville, Md., 21029, hereby request a Waiver of County Code, to allow a minimum setback of 17 feet, in lieu of 20 feet as required by County Code, from the Septic Easement to the basement areaway of the proposed house to be built.
(See Attached: Exhibit "A")



Cary Ho, Owner



Michelle H. Ho, Owner

The property owner for 6118 is connecting to public water and sealing the existing well. We are recommending the SDA be approved as proposed, and without conditions other than the BAT unit be included in the septic system upgrade and the well on the subject property be sealed.

Robert Bricker, REHS/R.S., L.E.H.S.

--

Steven R. Krieg, REHS/RS
Regional Consultant

Onsite Systems Division
Wastewater Permits Program
Water Management Administration
Maryland Department of the Environment

--

Steven R. Krieg, REHS/RS
Regional Consultant

Onsite Systems Division
Wastewater Permits Program
Water Management Administration
Maryland Department of the Environment

Williams, Jeffrey

From: Steven Krieg -MDE- [steven.krieg@maryland.gov]
Sent: Thursday, May 01, 2014 11:25 AM
To: Bricker, Robert; Williams, Jeffrey
Subject: Re: 6118 Tulane Drive

I agree. My point is just to keep beating on these plan preparers so they get the terminology correct. Of course everyone needs to be on the same page

On Thu, May 1, 2014 at 11:20 AM, Bricker, Robert <RBricker@howardcountymd.gov> wrote:

I like for such wells to be labeled To BE SEALED, but if that is the only issue with the perc cert and we are getting a Well Abandonment Report, I'm not going to make someone re-label the location.

From: Steven Krieg -MDE- [mailto:steven.krieg@maryland.gov]
Sent: Thursday, May 01, 2014 8:58 AM
To: Bricker, Robert
Cc: Williams, Jeffrey
Subject: Re: 6118 Tulane Drive

Thanks for the detailed email. I concur with your recommendation.

Curious though looking at the plans of what a Norweco BAT 32? is also I dont like the term well being "abandoned "on plans, I like the term properly abandoned and sealed.

Also on the Howard Lodge test plan "Septic Easement" How about "Septic Area"

This is just me being picky but you have to start somewhere.

Keep up the good and detailed work.

On Wed, Apr 30, 2014 at 11:29 AM, Bricker, Robert <RBricker@howardcountymd.gov> wrote:

Steve,

Attached PDF shows a proposed SDA with upgrade to BAT unit (for building permit expanding residence. There is very limited area to work with and the Heritage Heights subdivision near Clarksville had originally been approved with minimal setback (100-feet) for well-to-septic system components. A trench is to be added with the existing trench for the initial system, therefore LPD implementation would be very challenging. The existing dry well and septic tank are to be abandoned. There is adequate area for a replacement system near the north boundary of the property. A cleanout was observed in the yard to the north. An accurate location of the system there is unknown.

Bricker, Robert

From: Steven Krieg -MDE- [steven.krieg@maryland.gov]
Sent: Thursday, May 01, 2014 8:58 AM
To: Bricker, Robert
Cc: Williams, Jeffrey
Subject: Re: 6118 Tulane Drive

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The property owner for 6118 is connecting to public water and sealing the existing well. We are recommending the SDA be approved as proposed, and without conditions other than the BAT unit be included in the septic system upgrade and the well on the subject property be sealed.

Robert Bricker, REHS/R.S., L.E.H.S.

--
Steven R. Krieg, REHS/RS
Regional Consultant

Onsite Systems Division
Wastewater Permits Program
Water Management Administration
Maryland Department of the Environment

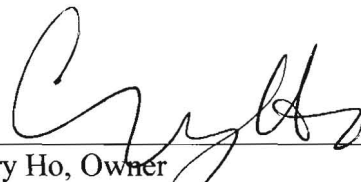
REQUEST OF VARIANCE

Re: Sewerage Disposal Area
Cary Ho & Michelle A. Ho
6118 Tulane Drive
Clarksville, Md., 21029

To: Mr. Jeff Williams, Supervisor
Development Coordination Section
Well & Septic Program
Howard County Bureau of Environmental Health
8930 Stanford Boulevard
Columbia, Md., 211045

We, Cary Ho and Michelle A. Ho, owners of the property located at 6118 Tulane Drive, Clarksville, Md., 21029, hereby request a Variance to allow the proposed sewerage disposal area on our property to be approved upgradient of neighboring wells. In support of this Request, we hereby cite the following:

1. The nearest well, which is located on our property, will be sealed so that we may utilize the public water system.
2. The proposed Septic Disposal Area (SDA) is over 200 feet from the only well directly down gradient, which complies Howard County Code.
3. The initial proposed septic system will be utilizing the existing trench, and, an additional trench will be installed, to enlarge the system, immediately adjacent to the existing trench.
4. The existing septic system has never caused any contamination to adjacent well water.
5. A NORWECO BAT 32 system is to be installed.



Cary Ho, Owner



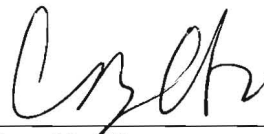
Michelle A. Ho, Owner

REQUEST OF WAIVER

Re: Sewerage Disposal Area
Cary Ho & Michelle A. Ho
6118 Tulane Drive
Clarksville, Md., 21029

To: Mr. Jeff Williams, Supervisor
Development Coordination Section
Well & Septic Program
Howard County Bureau of Environmental Health
8930 Stanford Boulevard
Columbia, Md., 211045

We, Cary Ho and Michelle A. Ho, owners of the property located at 6118 Tulane Drive, Clarksville, Md., 21029, hereby request a Waiver of County Code to allow the proposed Sewerage Disposal Area to be a minimum distance of 5 feet from a property line in lieu of 10 feet as required by County Code. Additional area is being requested to assure there is adequate area to install the Replacement System trenches.



Cary Ho, Owner



Michelle A. Ho, Owner

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 - Easement (No-Taxes) Recording Fee
1x 20.00 20.00

Grantor Name: [unclear]
Reference/Control #: 58

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LR - Easement (No-Taxes) Surcharge
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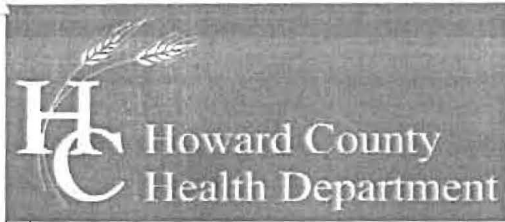
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SubTotal: 60.00
Total: 60.00

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REV-Check-BOA 60.00
Number : 1122

04/28/2014 10:35
#2720161 /496/109

CC13-KC

~ Thank you for visiting us today ~



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

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FOR AN ON-SITE SEWAGE DISPOSAL SYSTEM
HAVING AN ADVANCED PRE-TREATMENT SYSTEM**

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WHEREAS, Owner is the owner or contract owner of a parcel of land located at 6118 Tulane Drive, Clarksville, Md., 21029, 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 15469 Folio 005.

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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.

Coytze 4/26/2014
Owner Date

Michelle 4/26/2014
Owner Date

Bea Ryan 4/28/2014
Howard County Health Department

- SEPTIC SYSTEM / BEST AVAILABLE TECHNOLOGY (BAT) 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 BLOWER MAY NOT BE LOCATED MORE THAN 10 FEET FROM THE TANK BASED ON THE MANUFACTURERS SPECIFICATIONS.
 4. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM
 5. THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
 6. WITHIN 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.
 7. ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
 8. AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OF HOWARD COUNTY.
 9. THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.

SYSTEM TRENCH SPECIFICATIONS

Trench	Ground Invert	Bottom	Eff. Sidewall
A-(58"x 2')	462.1	457.9	5'
B-(65"x 2')	462.3	457.9	6'

(Trench B- Use Existing Trench)

Replacement Trenches

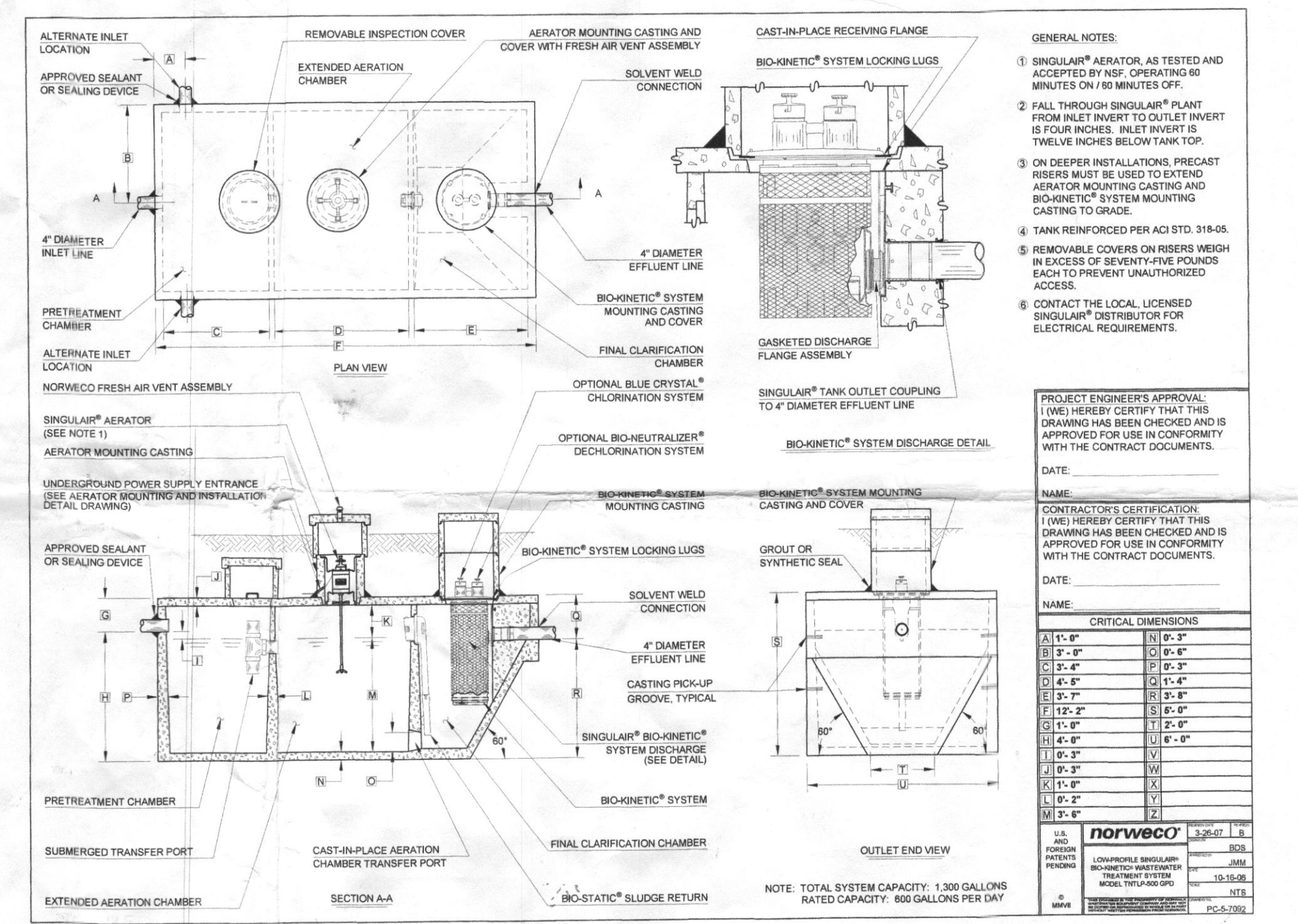
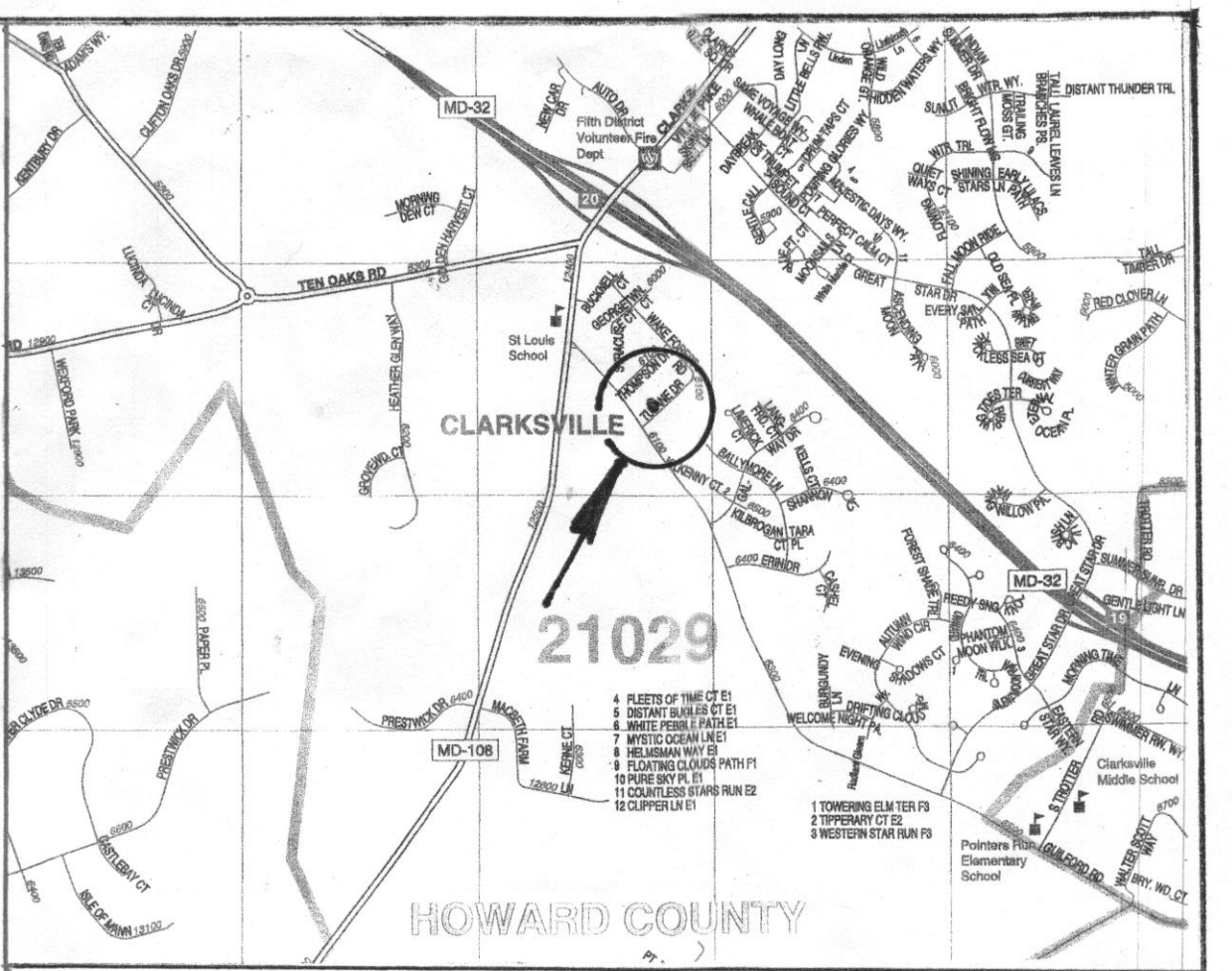
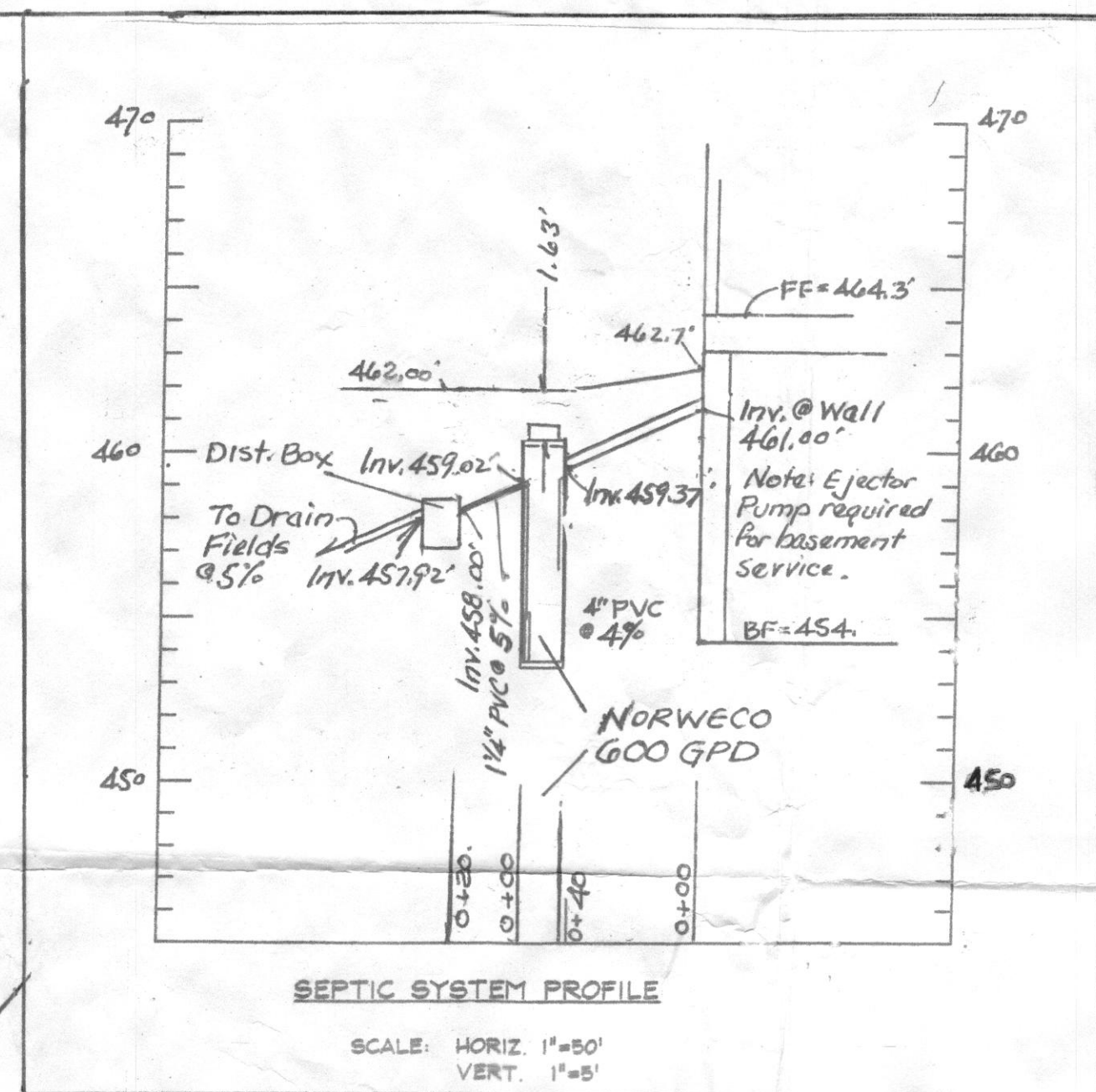
Trench	Ground Invert	Bottom	Eff. Sidewall
C-(60"x 3')	462.2	457.0	5'
D-(60"x 3')	462.1	457.0	5'

SEWAGE DISPOSAL SYSTEM DATA (5 BR)

1. INVERT @ FOUNDATION WALL: 461.00 (BASEMENT PUMP REQUIRED)
2. TNT 600 GPD SYSTEM
EX. GRADE OVER PUMP 461.8
PROPOSED GRADE OVER PUMP 462.0
INVERT: 459.37
3. DISTRIBUTION BOX
EX. & PROPOSED GRADE OVER BOX: 462.1
INVERT: 458.0
4. TRENCH DESIGN (4BR X 150 GPD/BR= 600 GPD)
600 GPD / 0.8 GPD/SF (APP. RATE) = 750 SF REQUIRED
INITIAL SYSTEM-
USE EXISTING TRENCH (65' x 2' W) w/ 6' EFF. SIDEWALL
65 x 2/0.27 = 481 SQ. FT.
PROPOSED TRENCH (58' x 2' W) w/ 5' EFF. SIDEWALL
58 X 2/0.31 = 374.2 SF + 481 SF = 855 TOTAL SQ. FT. PROVIDED
REPLACEMENT SYSTEM- 750 SF REQUIRED
PROPOSED- (2) 60' X 3' WIDE, w/ 5' EFFECTIVE SIDEWALL
750/3 = 250 X 0.36 = 90 LF REQUIRED // 120 LF PROPOSED

PERCOLATION TEST RESULTS- date 3/20/2014
(TIME OF 2ND INCH)
#1401- 12 MINUTES
#1402- 10 MINUTES
#1403- VISUAL

Lot 12, Block D
Section One- Heritage Heights
Plat Book 4:14
Tax Map 34, Grid 12, Parcel 123
Deed Reference: 15469 / 005



Approved Septic System Plan
Howard County Health Department
NORWECO TNTLP-500 GPD
w/ Dist. Box and 2'x58' TRENCH
J. Bricker 8/18/2014
Signature Date
B 1400 2432
6118 Tulane Drive

Site Plan for BAT Installation

6118 Tulane Drive
Clarksville, Md., 20129
Tax #05-359856
August 5, 2014 Scale 1"=20'

OWNER: Cary Ho & Michelle H. Ho
12408 Pretoria Drive
Silver Spring, Md., 20904
410-807-2444

Prepared by: Douglas C. Myers
800 Scarlett Drive
Towson, Md., 21286
443-438-0860
douglassmyers@gmail.com

I certify that the information shown herein is based on work performed in my presence or by my direction, and is correct to the best of my knowledge and belief.

Douglas C. Myers 8/18/2014
Douglas C. Myers Date

SEPTIC SYSTEM / BEST AVAILABLE TECHNOLOGY (BAT) 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 BLOWER MAY NOT BE LOCATED MORE THAN 10 FEET FROM THE TANK BASED ON THE MANUFACTURER'S SPECIFICATIONS.
4. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
5. THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
6. WITHIN 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.
7. ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
8. AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OF HOWARD COUNTY.
9. THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.

SYSTEM TRENCH SPECIFICATIONS

Trench	Ground	Invert	Bottom	Eff. Sidewall
A-(58'x 2')	462.1	457.9	452.9	5'
B-(65'x 2')	462.3	457.9	451.9	6'

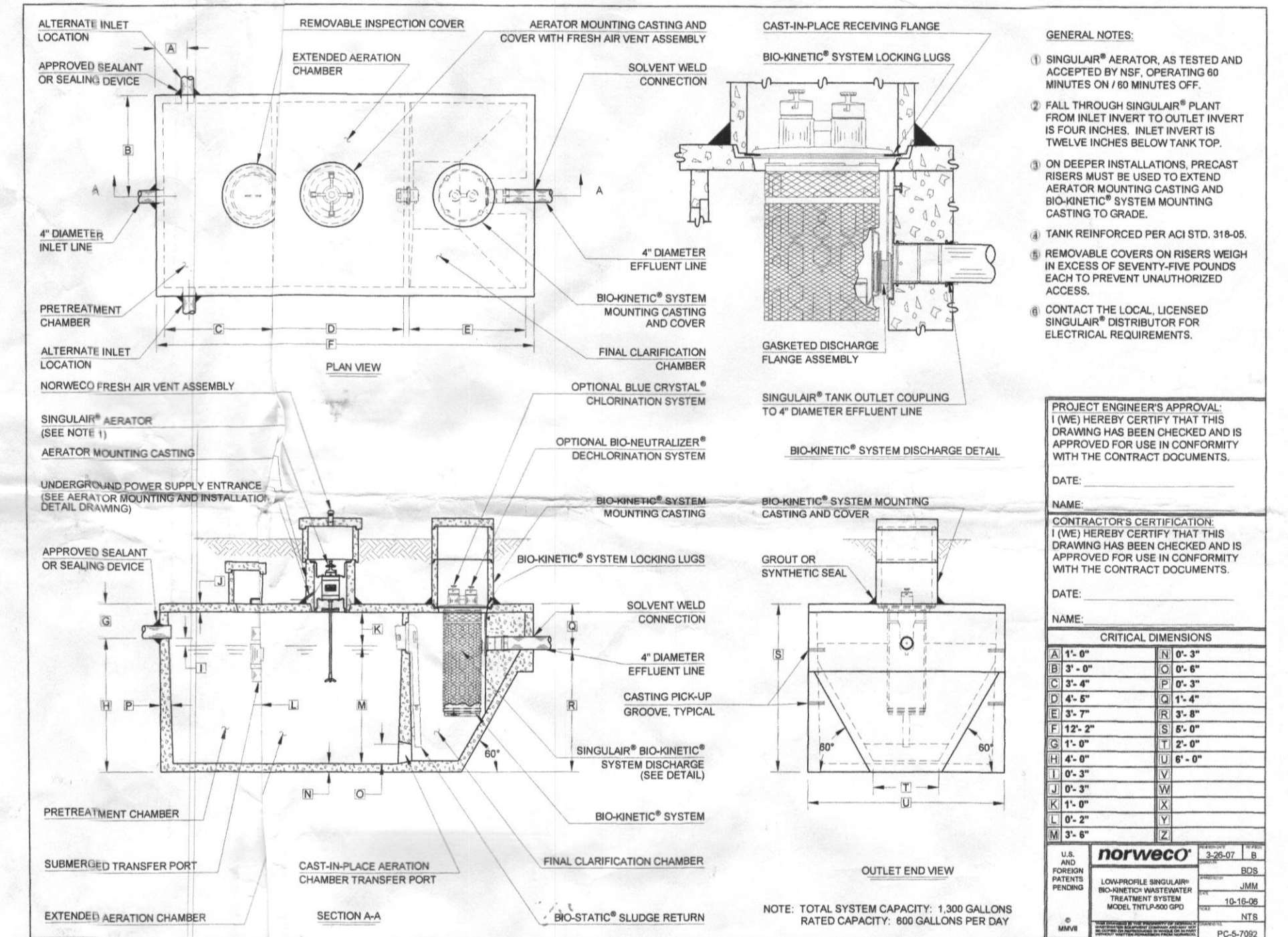
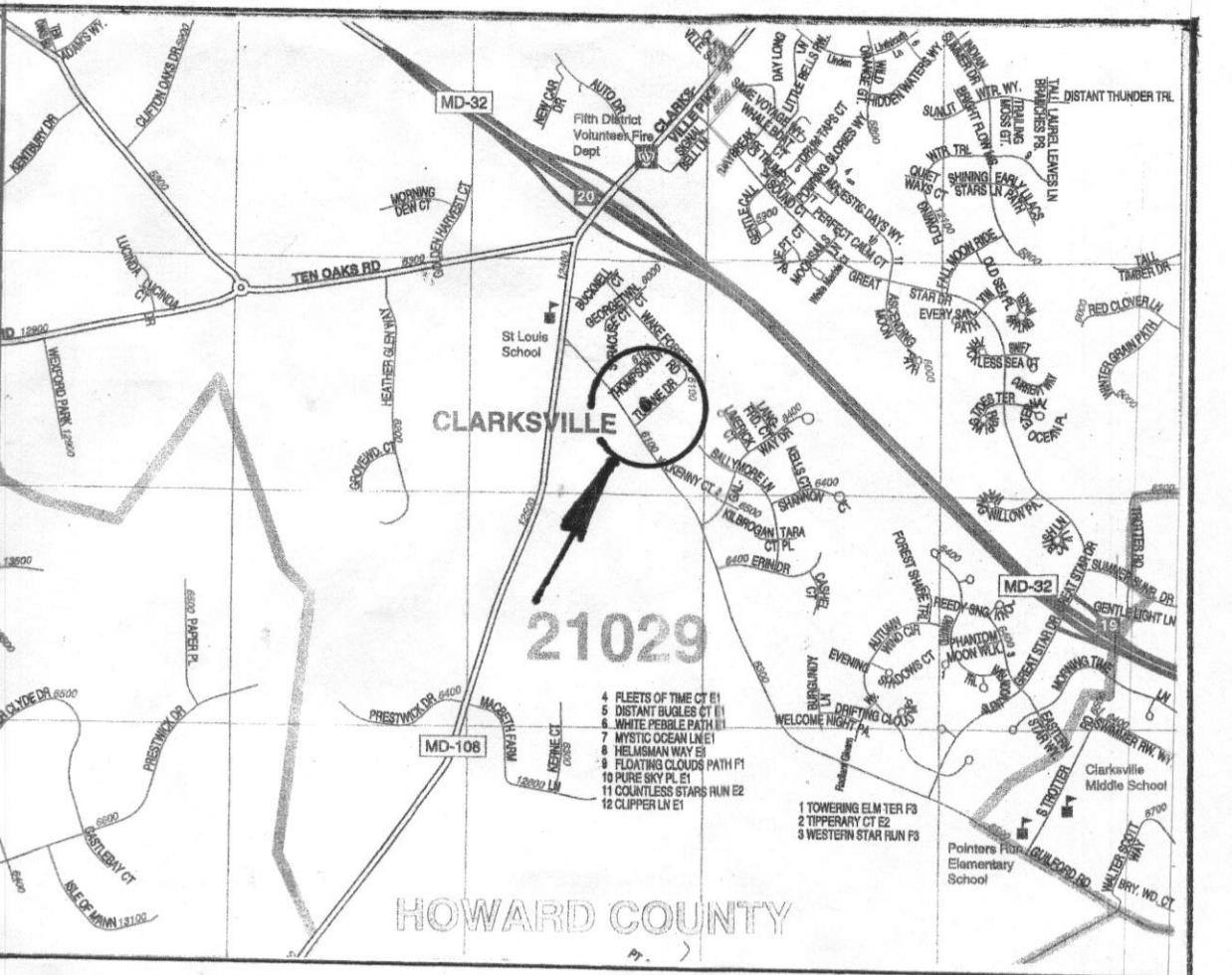
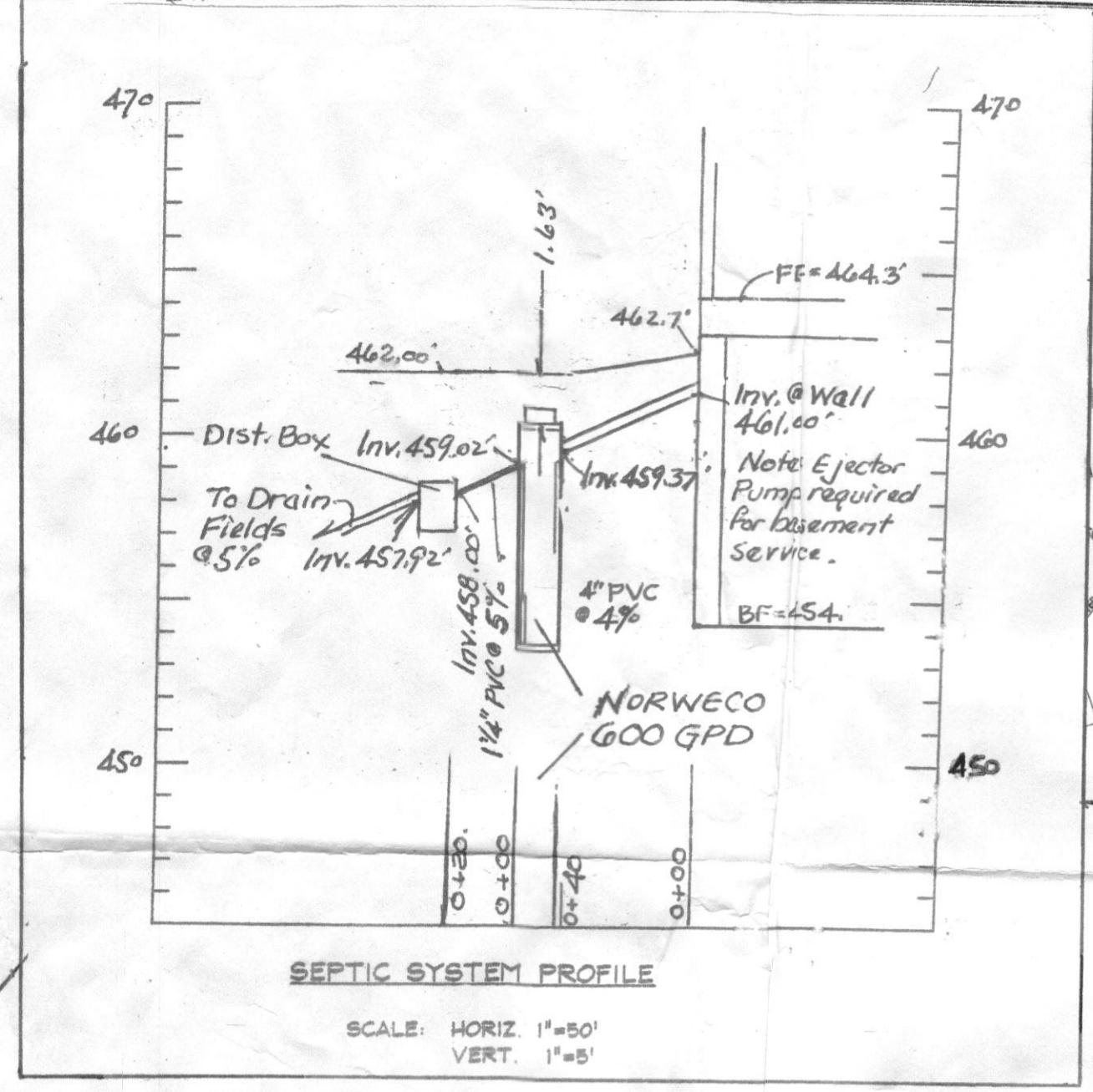
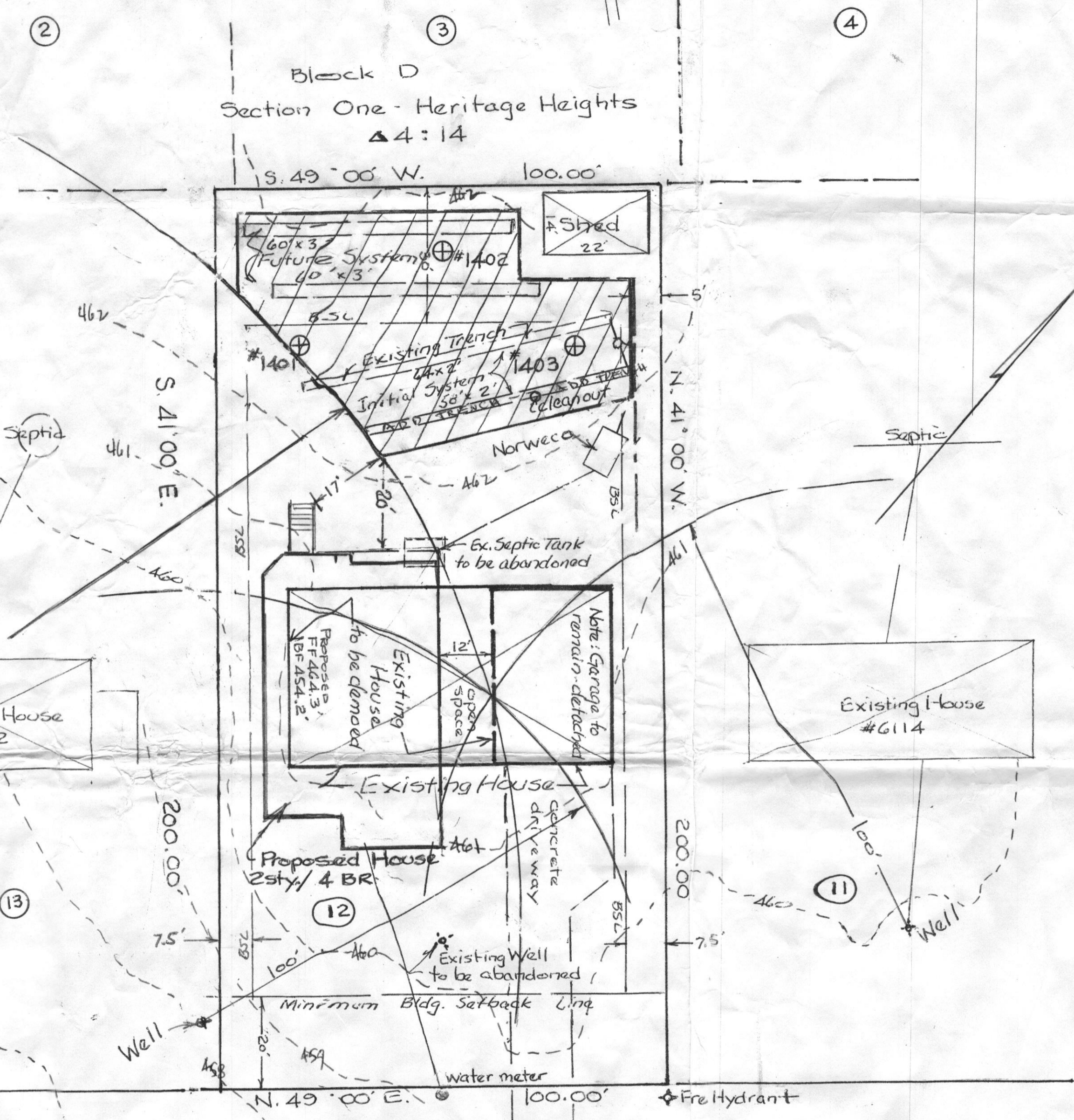
(Trench B- Use Existing Trench)

Replacement Trenches	Ground	Invert	Bottom	Eff. Sidewall
C-(60'x 3')	462.2	457.0	452.0	5'
D-(60'x 3')	462.1	457.0	452.0	5'

- SEWAGE DISPOSAL SYSTEM DATA (5 BR)**
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