



Howard County  
Health Department

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

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

RECEIPT DATE: \_\_\_\_\_

# **ONSITE SEWAGE DISPOSAL SYSTEM**

P 554501

INSTALLATION

APPROVAL DATE: 7/17/2014

# **PERMIT CONSTRUCTION**

A \_\_\_\_\_

PROPERTY ADDRESS: 5196 Ten Oaks Road

SUBDIVISION: Linden Chapel Woods

LOT: 2 TAX ID: \_\_\_\_\_

CONTRACTOR: Fogle's Septic Clean Inc.

EMAIL: kevin@foglesinc.com

CONTRACTOR ADDRESS: 580 Obrecht Road, Sykesville, MD 21784

PHONE: 410-795-5670

PROPERTY OWNER: Paul and Astrid Connors

EMAIL: \_\_\_\_\_

OWNER ADDRESS: 5196 Ten Oaks Road

PHONE: 410-379-1005

BAT UNIT MODEL: Norweco

BAT UNIT SIZE: 500GPD

PUMP CHAMBER CAPACITY (GALLONS): \_\_\_\_\_

PUMP SIZE: \_\_\_\_\_

NUMBER OF BEDROOMS: 3

HOUSE SQ. FT. \_\_\_\_\_

APPLICATION RATE: \_\_\_\_\_

DISTRIBUTION SYSTEM: GRAVITY FED ☒

LOW PRESSURE DOSED ☐

TRENCHES:	LINEAR FEET REQUIRED: <u>SEE BAT PLAN</u> <u>106'</u> Tie Into <u>Existing Trench</u>	INLET DEPTH: <u>SEE BAT PLAN</u> <u>3'</u>
	TRENCH WIDTH: <u>SEE BAT PLAN</u> <u>3'</u>	MAXIMUM BOTTOM DEPTH: <u>SEE BAT PLAN</u> <u>8'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>SEE BAT PLAN</u> <u>9'</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>SEE BAT PLAN</u> <u>5'</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 existing trench to be used if possible - to be reduced to 53' length within new SDA remainder of trench, drywell, and old tank to be abandoned 2x53'	

ISSUED BY: Dana Bernard gus

ISSUE DATE: 6/10/14

EXPIRATION DATE: 6/10/15

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 DOWNGRADE FROM ANY WATER WELL

NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE  
SUCCESSFUL OPERATION OF ANY SYSTEM.

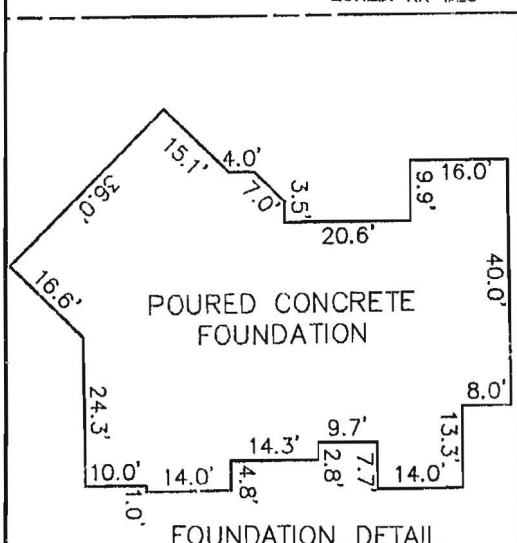
PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.



N/F  
SCOTT ARTERBURN AND  
VIRGINIA McGINNIS  
TAX MAP 28 PARCEL 128  
LIBER 12527 FOLIO 213  
ZONED: RR-DEO

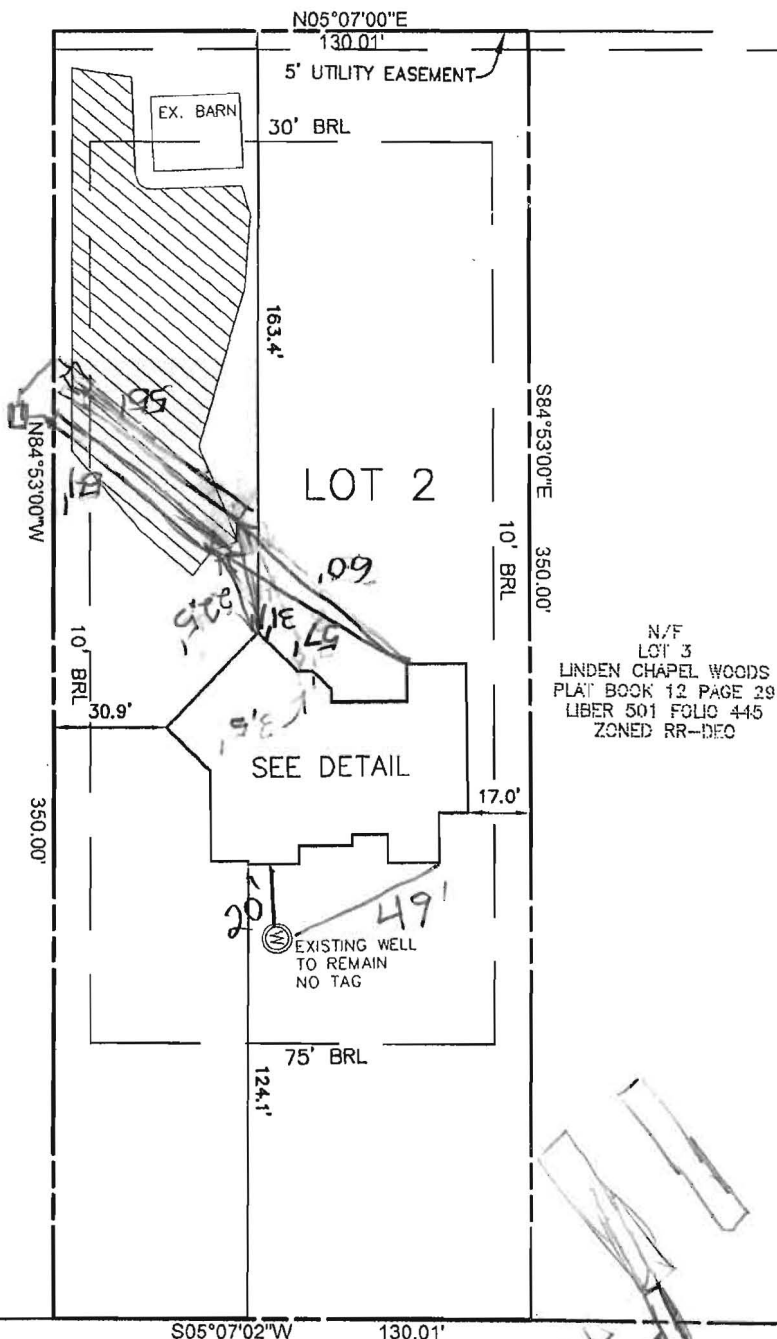
N/F  
SCOTT ARTERBURN AND  
VIRGINIA McGINNIS  
TAX MAP 28 PARCEL 157  
LIBER 12527 FOLIO 188  
ZONED: RR-DEO



SCALE: 1" = 30'

N/F  
LOT 1  
LINDEN CHAPEL WOODS  
PLAT BOOK 12 PAGE 29  
LIBER 1240 FOLIO 533  
ZONED RR-DEO

Wall check  
OK  
9w  
6/10/14

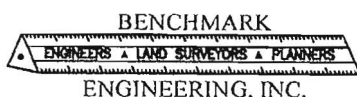


N/F  
LOT 3  
LINDEN CHAPEL WOODS  
PLAT BOOK 12 PAGE 29  
LIBER 501 FOLIO 445  
ZONED RR-DEO

### SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THESE DOCUMENTS, WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21320, EXPIRATION DATE 1-7-2015 AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF, THAT THE DIMENSIONS OF THE BUILDING WALLS SHOWN HEREON ARE CORRECT; THAT THEY ARE BASED ON A FIELD RUN SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC. ON 04/09/14.

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



8480 BALTIMORE NATIONAL PIKE • SUITE 315  
ELLICOTT CITY, MARYLAND 21043  
phone: 410-465-6105 • fax: 410-465-6644  
www.bei-civilengineering.com

FIELD OBS. BY PHIL  
COMP. BY EWF  
DRAWN BY EWF

### TEN OAKS ROAD

80' VARIABLE PUBLIC  
RIGHT-OF-WAY  
MAJOR COLLECTOR

TOP OF FOUNDATION WALL ELEVATION = 550.9'  
OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 0.1'

### WALL CHECK

LINDEN CHAPEL WOODS  
PLAT BOOK No. 12, PAGE 29  
LOT No. 2

5196 TEN OAKS ROAD

FIFTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE: 1" = 50' DATE: 04/09/2014

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: Connors  
Reference/Control #: 115

LR - Agreement Surcharge

	1x	40.00 40.00
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=====

SubTotal:		60.00
Total:		60.00

=====

REV-Cash		60.00
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06/09/2014 13:10 CC13-CH

#2888218 /495/109

Thank you for visiting us today~

December 18, 2012

Dana Bernard, RS  
Well and Septic Program  
Howard County Health Department  
7178 Columbia Gateway Drive  
Columbia, MD 210046

Re: Linden Chapel Woods, Lot 2  
5196 Ten Oaks Road  
Parcel 127

Ms. Bernard:

We are writing to request a variance for a new Septic Reserve Area and existing well located on the above mentioned property, our property.

For the septic area we are requesting a variance along the southern rear side of the subject property. Due to a 100 ft. well radius from the adjoining property to the west our septic reserve area encroaches 5.0 feet into the 10 foot property line setback requirement. This encroachment will have no negative impact on the property to the south because the distance from the proposed septic reserve area and the neighboring well is greater than 100 feet away. By granting this variance request we will be able delineate a septic reserve area meeting the minimum requirements of lots created prior to 1972.

There is an existing well located 20 feet from the existing house. We are requesting a variance to the minimum 30 foot well set back because the front of the proposed house is to be built in the same location as the front of the existing house. The existing well is in good working order and we wish to continue to use this well.

Orange safety fencing will be used to protect the well head during the razing of the old house and construction of the new house.

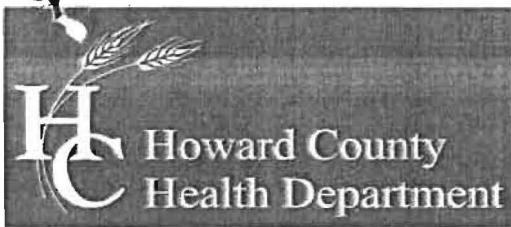
With regards to the structures in the septic reserve area our intentions are to remove the existing shed and to retain the barn. The barn has a pervious floor system and we will maintain the floor as porous. We understand that the barn is in the low part of the septic reserve area and that area will only be used for any future repairs to the disposal system. We will remove the barn if it becomes necessary to install the a repair system in that area.

If you have any question please feel free to contact John Carney at 410-465-6105 or [jcarney@beicivilengineering.com](mailto:jcarney@beicivilengineering.com) or contact us.

Thank You,

The block contains two handwritten signatures. The first signature is in cursive and appears to read 'Paul Connors'. The second signature is also in cursive and appears to read 'Astrid E Connors'.

Paul and Astrid Connors,  
Property Owners



## Bureau of Environmental Health

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

[www.hchealth.org](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](https://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 6<sup>th</sup> day of JUNE, among PAUL CONNORS, 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 5196 TEN OAKS RD, in the 5<sup>th</sup> 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 15289 Folio 352

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

Howard County Health Department



December 18, 2012

Dana Bernard, RS  
Well and Septic Program  
Howard County Health Department  
7178 Columbia Gateway Drive  
Columbia, MD 210046

Re: Linden Chapel Woods, Lot 2  
5196 Ten Oaks Road  
Parcel 127

Ms. Bernard:

We are writing to request a variance for a new Septic Reserve Area and existing well located on the above mentioned property, our property.

For the septic area we are requesting a variance along the southern rear side of the subject property. Due to a 100 ft. well radius from the adjoining property to the west our septic reserve area encroaches 5.0 feet into the 10 foot property line setback requirement. This encroachment will have no negative impact on the property to the south because the distance from the proposed septic reserve area and the neighboring well is greater than 100 feet away. By granting this variance request we will be able delineate a septic reserve area meeting the minimum requirements of lots created prior to 1972.

There is an existing well located 20 feet from the existing house. We are requesting a variance to the minimum 30 foot well set back because the front of the proposed house is to be built in the same location as the front of the existing house. The existing well is in good working order and we wish to continue to use this well.

Orange safety fencing will be used to protect the well head during the razing of the old house and construction of the new house.

With regards to the structures in the septic reserve area our intentions are to remove the existing shed and to retain the barn. The barn has a pervious floor system and we will maintain the floor as porous. We understand that the barn is in the low part of the septic reserve area and that area will only be used for any future repairs to the disposal system. We will remove the barn if it becomes necessary to install the a repair system in that area.

If you have any question please feel free to contact John Carney at 410-465-6105 or [jcarney@bei-civilengineering.com](mailto:jcarney@bei-civilengineering.com) or contact us.

Thank You,


Paul and Astrid Connors,  
Property Owners





Bureau of Environmental Health  
8930 Stanford, Columbia, MD 21045  
Main: 410-313-2640 | Fax: 410-313-2648  
TDD 410-313-2323 | Toll Free 1-866-313-6300  
[www.hchealth.org](http://www.hchealth.org)  
Face book: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)  
Twitter: HowardCoHealthDep

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

February 3, 2014

Paul Connors  
5196 Ten Oaks Road  
Clarksville, MD 21029

RE: **Variance request**  
**Linden Chapel Woods Lot #2**  
**5196 Ten Oaks Road**

Dear Mr. and Mrs. Connors,


Maryland Department of the Environment has accepted our recommendation to approve the following variance request under the *Code of Maryland Regulations 26.04.02.05 (C)* to allow: the proposed sewage disposal system serving lot 2 in the Linden Chapel Woods Subdivision (5196 Ten Oaks Road) to be located up gradient from the existing private water well located at 5200 Ten Oaks Road. Due to the landscape position of the sewage areas and well, the request was approved subject to the following conditions:


1. An advanced pretreatment system which utilizes best available technology to perform nitrogen reduction must be installed on the sewage disposal system on Lot # 2 at 5196 Ten Oaks Road. In addition, ongoing maintenance is required. An agreement acknowledging the need for maintaining a service contract with an authorized service provider must be recorded in the Howard County Land Records for this lot within 30 days after plat recordation. Building permit applications for the respective lot will not be approved until such an agreement is recorded. Before a septic system installation permit is released for the advanced pre-treatment system, a site plan must be submitted with all necessary details for installation of the system.

If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-6287.

Sincerely,

Dana Bernard, REHS/RS  
Well & Septic Program

  
Maryland Department of the Environment  
Steven Krieg, R.S.

  
Howard County Health Department  
Jeff Williams, Well and Septic Supervisor

Cc: File

November 9, 2012

Heidi Scott, RS  
Well and Septic Program  
Howard County Health Department  
7178 Columbia Gateway Drive  
Columbia, MD 210046

Re: Linden Chapel Woods, Lot 2  
5196 Ten Oaks Road  
Parcel 127

Ms. Scott:

We are writing to request a variance for a new Septic Reserve Area and existing well located on the above mentioned property.

For the septic area we are requesting a variance along the southern rear side of the subject property. Due to a 100 ft. well radius from the adjoining property to the west the 10,000 s.f. septic reserve area encroaches 4.3 feet over the 10 foot property line setback requirement. This encroachment will have no negative impact on the property to the south because the distance from the proposed septic reserve area and the neighboring well is greater than 100 feet away. By granting this variance request we will be able delineate a septic reserve area meeting the minimum of 10,000 square feet.

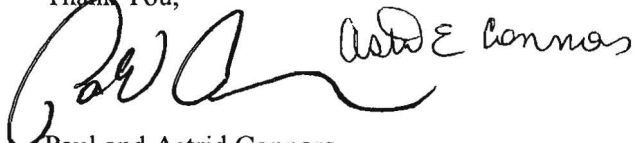
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Orange safety fencing will be used to protect the well head during the razing of the old house and construction of the new house.

With regards to the structures in the septic reserve area our intentions are to remove the existing shed because it is damaged, the barn we would like to retain. The barn has a pervious floor system and we will maintain the floor as porous. We understand that the barn is in the low part of the septic reserve area and that area will only be used for the second repair to the disposal system. We will remove the barn if it becomes necessary to install the third system.

If you have any question please feel free to contact John Carney at 410-465-6105 or [jcarney@beicivilengineering.com](mailto:jcarney@beicivilengineering.com) or contact us.

Thank You,

A handwritten signature in black ink, appearing to read "Paul and Astrid Connors", written over a horizontal line.

Paul and Astrid Connors,  
Property Owners

December 18, 2012

Dana Bernard, RS  
Well and Septic Program  
Howard County Health Department  
7178 Columbia Gateway Drive  
Columbia, MD 210046

Re: Linden Chapel Woods, Lot 2  
5196 Ten Oaks Road  
Parcel 127

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If you have any question please feel free to contact John Carney at 410-465-6105 or [jcarney@beicivilengineering.com](mailto:jcarney@beicivilengineering.com) or contact us.

Thank You,



Paul and Astrid Connors,  
Property Owners

# Back River Pre-Cast, LLC

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

## Letter of Certification

This is to certify that the Norweco Singulair TNT 600 GPD Septic Tank installed at 5196 Ten Oaks Rd., Clarksville, MD 21029 July 1, 2014 was installed according to the manufacture's specifications.

Installer: James Deavers



---

MATTHEW GECKLE

Vice-President

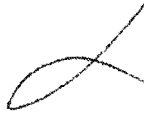
## Back River Pre-Cast, LLC

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

### Letter of Certification

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Installer: James Deavers



---

MATTHEW GECKLE

Vice-President



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: Connors  
Reference/Control #: 115

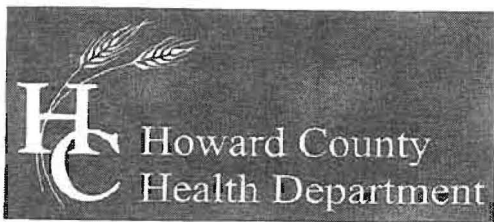
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LR - Agreement Surcharge  
1x 40.00 40.00

=====  
SubTotal: 60.00  
Total: 60.00

=====  
REV-Cash 60.00

06/09/2014 13:10 CC13-CH  
#2888218 / 495/109  
Thank you for visiting us today~





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7178 Columbia Gateway Drive, Columbia, MD 21046-2147  
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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 6<sup>th</sup> day of JUNE, among  
PAUL CONNORS, hereinafter collectively referred to as  
"Owner", and the Howard County Health Department hereinafter referred to as the  
"County".

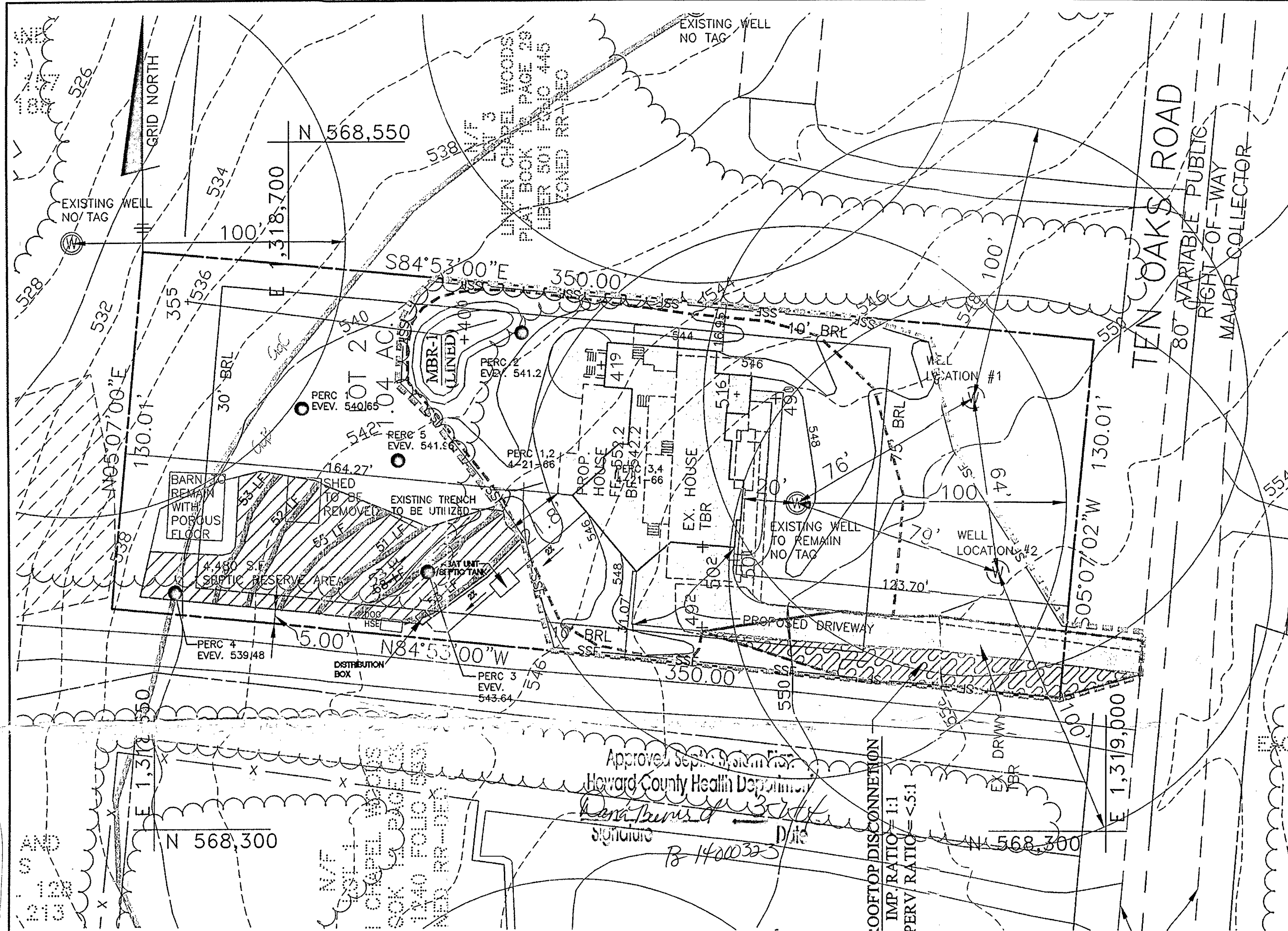
WHEREAS, Owner is the owner or contract owner of a parcel of land located at  
5196 TEN OAKS RD, in the 5<sup>th</sup> Election District of Howard  
County, Maryland, and the deed to same is recorded or shall be recorded among the Land  
Records of Howard County, Maryland in Liber 15289 Folio 352

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

Beet Nipen 6/6/14  
Howard County Health Department



PLAN  
SCALE: 1" = 30'

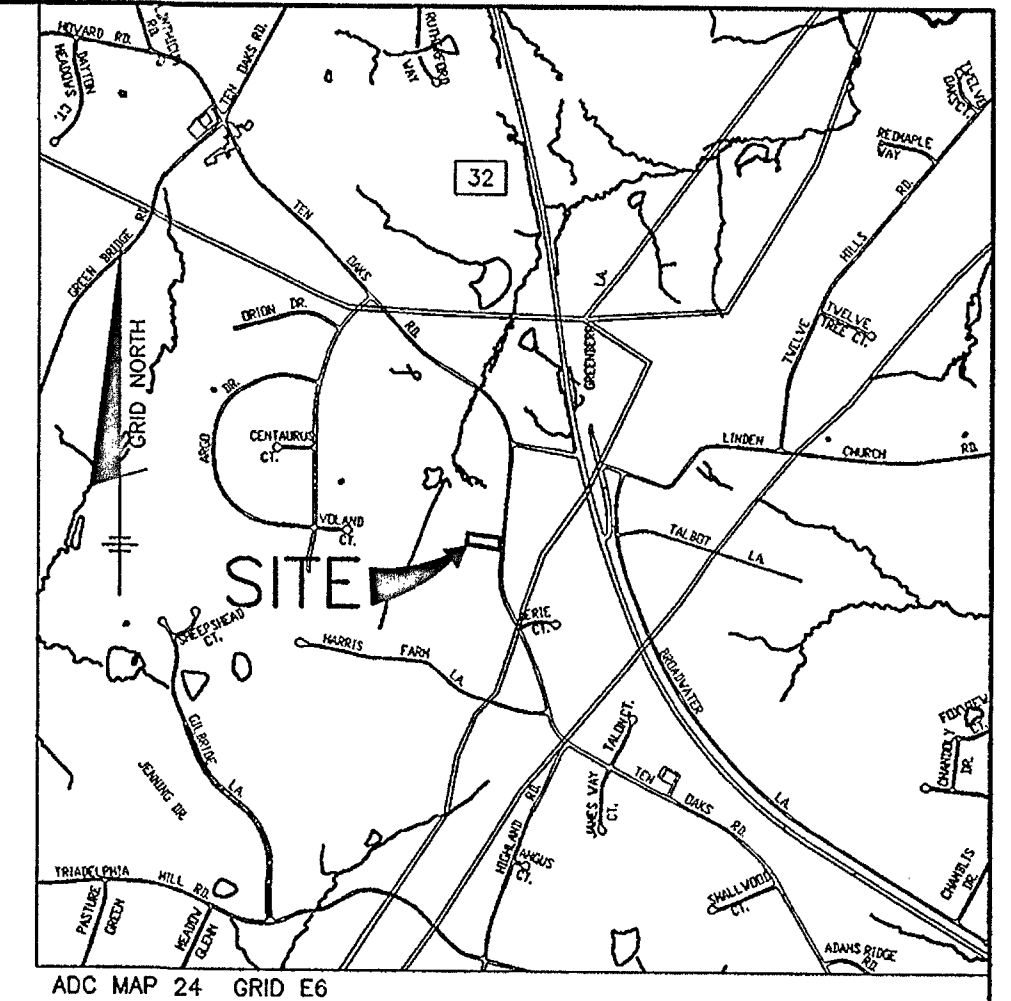
### LEGEND

- |  |                     |  |                       |  |                      |
|--|---------------------|--|-----------------------|--|----------------------|
|  | EXISTING CONTOURS   |  | PASSED TEST PERC HOLE |  | PROPOSED SEPTIC AREA |
|  | EXISTING TREELINE   |  | EX. WELL              |  | EXISTING SEPTIC AREA |
|  | LIMIT OF SUBMISSION |  | PROPOSED WELL         |  |                      |
|  | SOILS DELINEATION   |  | EXISTING DRY WELL     |  |                      |
|  |                     |  | EXISTING SEPTIC TANK  |  |                      |

BAT TECHNOLOGY SHALL BE IN COMPLIANCE WITH THE CURRENT LIST APPROVED BY MDE ON THE FOLLOWING  
WEB SITE: [http://www.mde.state.md.us/programs/Water/BayRestorationFund/OnsiteDisposalSystems/Pages/water/cbwrf/osds/brf\\_bat\\_process.aspx](http://www.mde.state.md.us/programs/Water/BayRestorationFund/OnsiteDisposalSystems/Pages/water/cbwrf/osds/brf_bat_process.aspx)

SOILS CHART - SOIL SURVEY HOWARD COUNTY, MARYLAND			
SYMBOL	HYDRIC	HYDROLOGIC GROUP	ALTERNATE GROUP
GgB		B	
GgC		B	

- ### LEGEND
- |  |                                  |
|--|----------------------------------|
|  | SOILS DELINEATION                |
|  | EXISTING TREELINE                |
|  | EXISTING CONTOURS                |
|  | FAILED PERCOLATION TEST LOCATION |
|  | PASSED PERCOLATION TEST LOCATION |

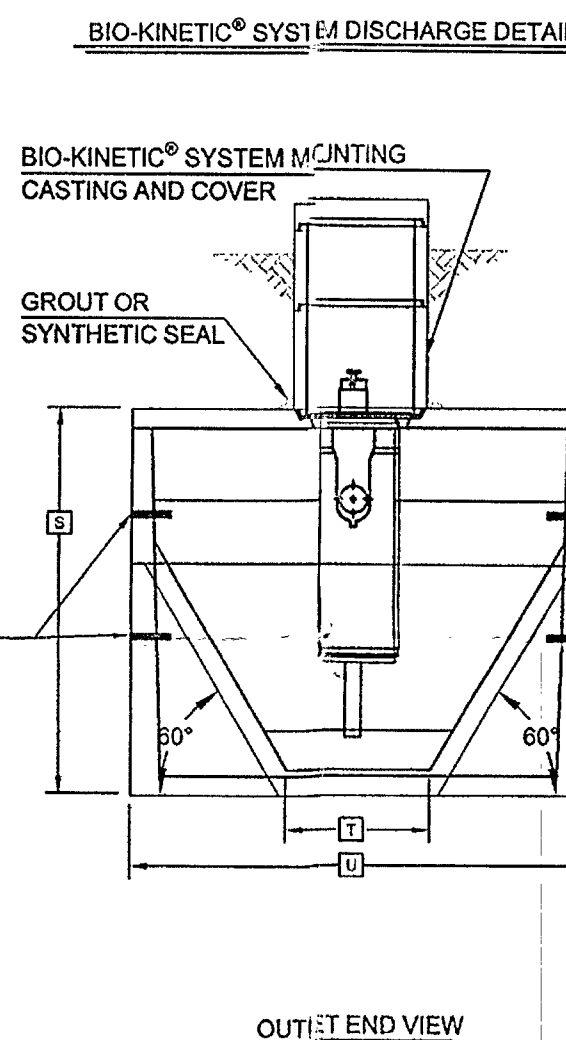
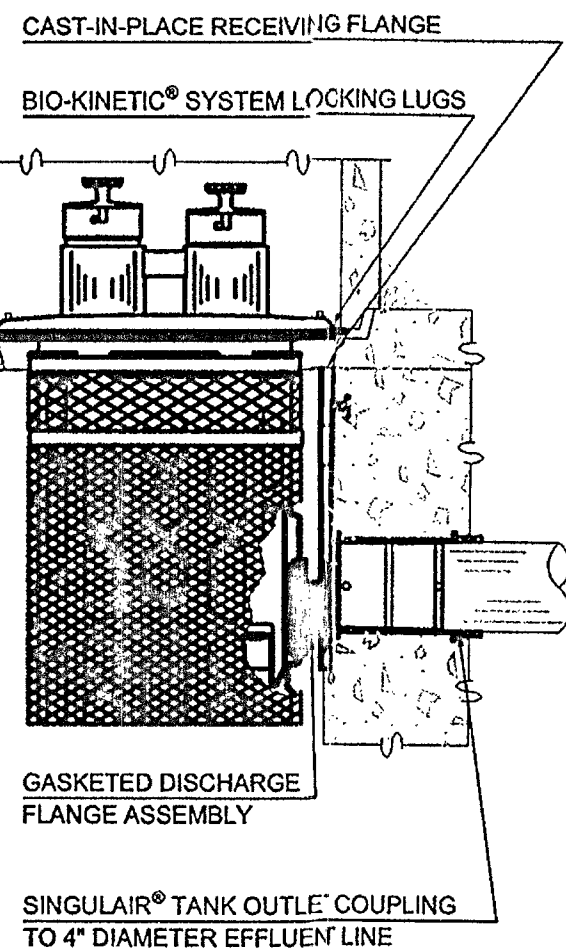
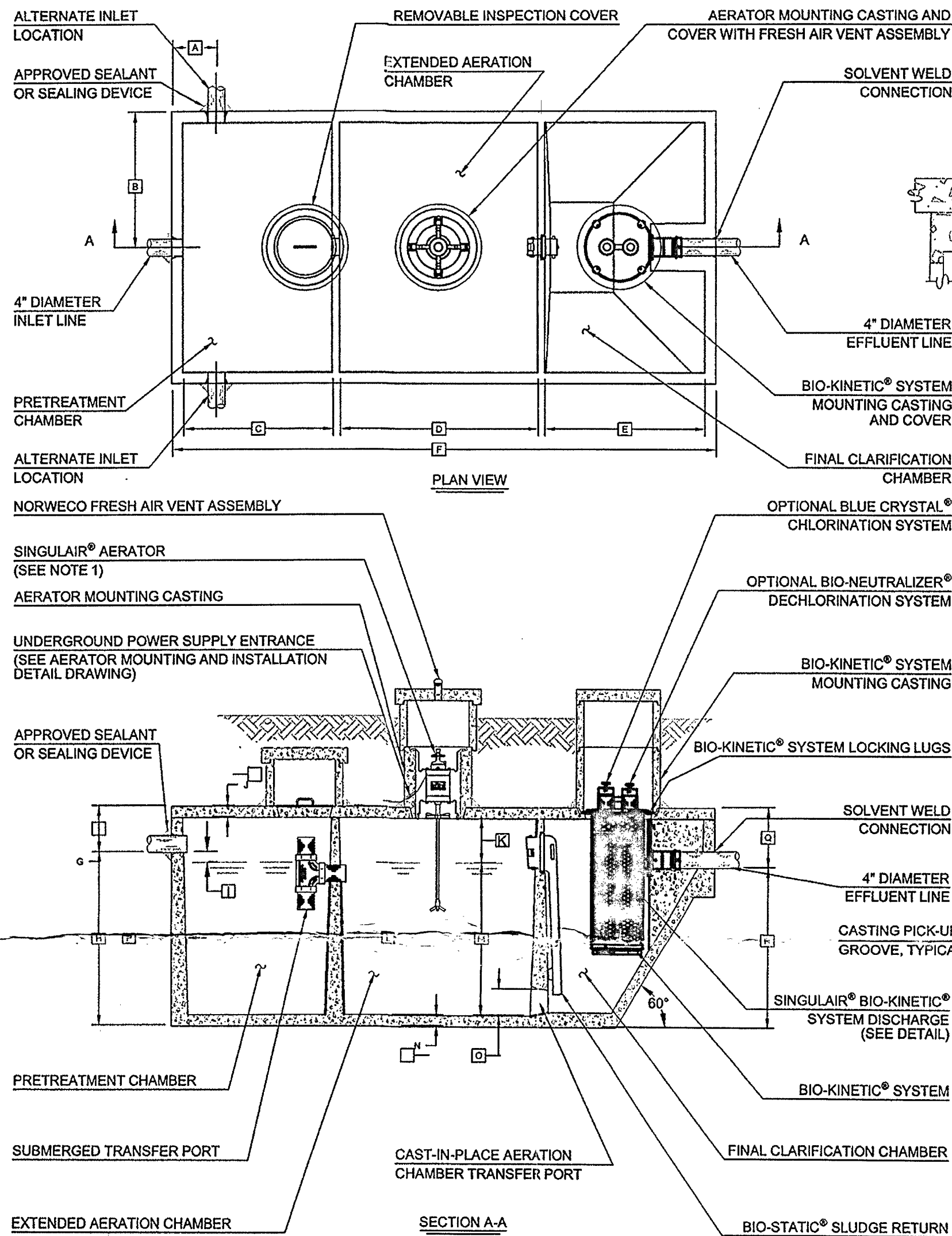


VICINITY MAP  
SCALE: 1" = 2000'  
GENERAL NOTES

- THE LOT SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 S.F. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWER SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE REQUIRED.
- EXACT LENGTH OF SEPTIC TRENCHES IS TO BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
- TOPOGRAPHY SHOWN IS BASED ON HOWARD COUNTY GIS AND IS TO BE VERIFIED BY BENCHMARK ENGINEERING, INC.
- THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
- THE PURPOSE FOR THIS PERCOLATION CERTIFICATION PLAN IS TO CREATE A SEWAGE DISPOSAL AREA AND TWO FUTURE WELL REPLACEMENT LOCATIONS.
- ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- THIS PLAN SHOWS THE SEPTIC DISPOSAL AREA CLOSER THAN 10' TO THE PROPERTY LINE AND THE EXISTING WELL CLOSER THAN 30' TO THE PROPOSED STRUCTURE. APPROVAL OF THESE CONDITIONS WILL REQUIRE A VARIANCE.
- CONTRACTOR TO USE THE EXISTING TRENCH FOR THE INITIAL SYSTEM IF POSSIBLE. IF THE TRENCH IS NOT DEEP ENOUGH OR IS CLOGGED AN NEW TRENCH IS TO BE CONSTRUCTED ON THE DOWNHILL SIDE AND THE LOWER TRENCHES ADJUSTED TO MAINTAIN PROPER SEPARATION.
- THE DESIGN OF THIS SEPTIC AREA REQUIRES THE USE OF A DEEP TRENCH SYSTEM. CALCULATIONS ARE BASED ON 5 BEDROOMS, 0.8 GPD/SF APPLICATION RATE AND 36" EFFECTIVE DEPTH. THE SEPTIC DISPOSAL SYSTEM FOR THIS LOT REQUIRES ADVANCED PRE-TREATMENT IN ACCORDANCE WITH MDE REGULATIONS.

<b>BENCHMARK</b> ENGINEERS • LAND SURVEYORS • PLANNERS <b>ENGINEERING, INC.</b> 8480 BALTIMORE NATIONAL PIKE • SUITE 315 ELLICOTT CITY, MARYLAND 21043 PHONE: 410-465-6105 • FAX: 410-465-6644 BENCHMARK@CIVILENGINEERING.COM		Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 28559, Expiration Date: 7-22-2015.	
OWNER/BUILDER:		PROJECT:	
PAUL W. CONNORS & ASTRID E. CONNORS 5196 TEN OAKS ROAD CLARKSVILLE, MD 21029 (240)417-5431		5196 TEN OAKS ROAD	
LOCATION:		5196 TEN OAKS ROAD CLARKSVILLE, MD 21029 TAX MAP No. 28 - LOT 2 - PARCEL No. 127 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND	
TITLE:		BUILDING PERMIT PLAN AND SITE PLAN FOR BAT INSTALLATION	
HOUSE TYPE:		CUSTOM HOME	
DATE:		AUGUST, 2013	
PROJECT NO.		2529	
SCALE:		1" = 30'	
DRAWING		1 OF 2	





NOTE: TOTAL SYSTEM CAPACITY: 1,300 GALLONS  
RATED CAPACITY 750 GALLONS PER DAY  
PER MANUFACTURER.

#### GENERAL NOTES:

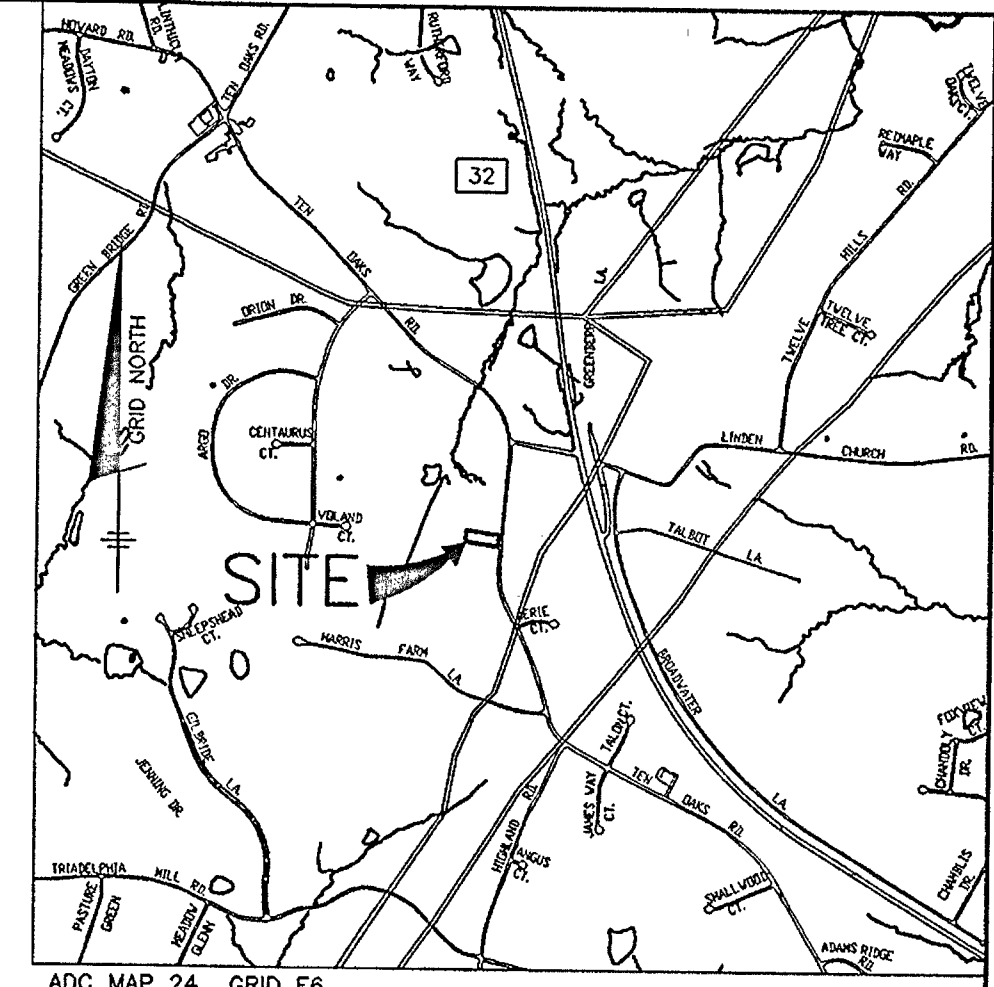
- SINGULAIR® AERATOR, AS TESTED AND ACCEPTED BY NSF, OPERATING 60 MINUTES ON / 60 MINUTES OFF.
- FALL THROUGH SINGULAIR® PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TWELVE INCHES BELOW TANK TOP.
- ON DEEPER INSTALLATIONS, PRECAST RISERS MUST BE USED TO EXTEND AERATOR MOUNTING CASTING AND BIO-KINETIC® SYSTEM MOUNTING CASTING TO GRADE.
- TANK REINFORCED PER ACI STD. 318-05.
- REMOVABLE COVERS ON RISERS WEIGH IN EXCESS OF SEVENTY-FIVE POUNDS EACH TO PREVENT UNAUTHORIZED ACCESS.
- CONTACT THE LOCAL, LICENSED SINGULAIR® DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS.

#### Required BAT Site Plan Notes

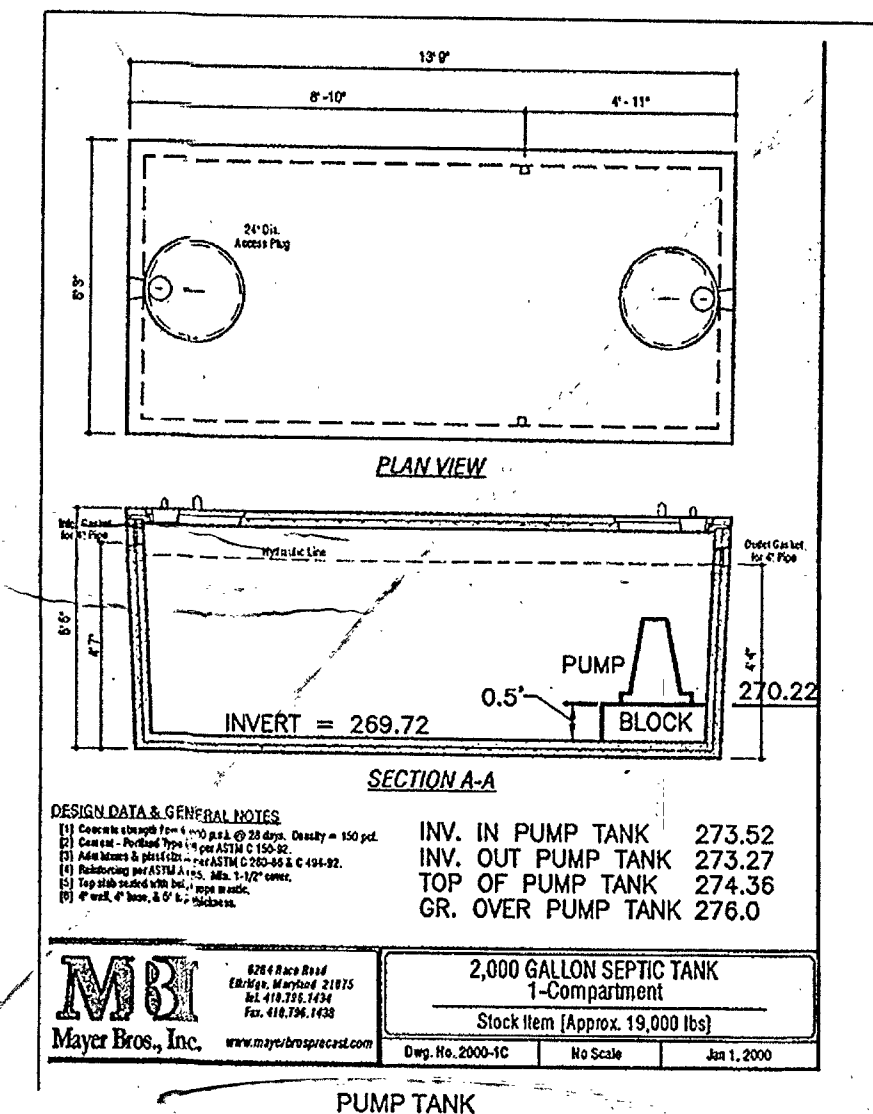
- Any change to the locations or depths to any components must be approved by the engineer and the Howard County Health Department prior to installation. A revised sit plan may be required.
- The maximum depth of the BAT shall be per the manufacturer's specification.
- The blower may not be located further from the tank than the manufacturer's specifications.
- The BAT system shall be maintained and operated for the life of the system.
- The BAT shall be operated by and maintained by a certified service provider.
- Within one 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.
- Electrical work for the BAT installation must be performed by a licensed electrician.
- An agreement and Easement must be completed and signed by all applicable parties, and recorded in Land Records of Howard County.
- The Health Department requires documentation for the start-up certification from the manufacturer prior to final approval of the installation.

SEE MANUFACTURER'S SPECIFICATIONS FOR DETAILS. [WWW.NORWECO.COM](http://WWW.NORWECO.COM)

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



VICINITY MAP  
SCALE: 1" = 2000'



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PAUL W. CONNORS & ASTRID E. CONNORS 5196 TEN OAKS ROAD CLARKSVILLE, MD 21029 (240)417-5431		5196 TEN OAKS ROAD	
DESIGN: BFC		DRAFT: BFC	
LOCATION:		5196 TEN OAKS ROAD CLARKSVILLE, MD 21029 TAX MAP No. 28 - LOT 2 - PARCEL No. 127 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND	
TITLE:		BUILDING PERMIT PLAN SITE PLAN FOR BAT INSTALLATION	
HOUSE TYPE:		CUSTOM HOME	
DATE:		AUGUST, 2013	
PROJECT NO.		2529	
SCALE:		NA	
DRAWING		2 OF 2	

BAT  
OK  
3-7-14