

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., Acting Health Officer

# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

### PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME Lindon Chapel Hills LOT # 7

PROPERTY ADDRESS 13500 Orion Dr Dayton 21036  
STREET TOWN ZIP

TAX ACCOUNT # 367700 TAX MAP 28 GRID 8 PARCEL 167 ZONING DESIGNATION \_\_\_\_\_

PROPERTY OWNER(S) Rick + Valerie Kline

DAYTIME PHONE \_\_\_\_\_ CELL \_\_\_\_\_ EMAIL \_\_\_\_\_

MAILING ADDRESS 13500 Orion Dr Dayton, MD 21036  
STREET CITY, STATE ZIP

APPLICANT Harrison Contracting RELATIONSHIP TO OWNER: Septic Contractor

DAYTIME PHONE 410-795-8691 CELL 410-952-4614 EMAIL RDSEFE@AOL.COM

MAILING ADDRESS 2858 Flag Marsh Rd Adams, MD 21771  
STREET CITY, STATE ZIP

**I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S):**

**BUILDING:**

- RESIDENTIAL WITH 5 EXISTING OR PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE
- COMMERCIAL (PROVIDE DETAIL OF TYPE OF USE AND NUMBERS OF EMPLOYEES/CUSTOMERS ON ACCOMPANYING PLAN)

**PROPERTY:**

- SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: \_\_\_\_\_
- CONSTRUCT NEW OSDS ON UNDEVELOPED LOT
- REPAIR OR REPLACE FAILING OSDS
- UPGRADE EXISTING OSDS

IS THE PROPERTY WITHIN 2500 FEET OF ANY RESERVOIR?

- YES
- NO

**AS APPLICANT, I UNDERSTAND THE FOLLOWING:**

- THIS APPLICATION IS VALID FOR TWO(2) YEARS FROM DATE OF FEE PAYMENT AND APPROVAL IS BASED UPON HEALTH OFFICER SIGNATURE OF A PERC CERTIFICATION PLAN PRIOR TO EXPIRATION OF THIS PERMIT.
- THE APPLICATION FEE IS NON-REFUNDABLE
- THIS APPLICATION MUST BE ACCOMPANIED BY ALL APPLICABLE FEES AND A SUITABLE SITE PLAN IN ORDER TO BE PROCESSED
- THIS IS A PUBLIC DOCUMENT

I declare and affirm that to the best of my knowledge, the information contained herein is correct. I declare that I am the owner of the property or duly authorized to make this application on behalf of the owner. I agree to comply with all applicable state and county regulations.

By signature of this application, I hereby grant Howard County Health Department officials the right to enter onto the property for the purpose of inspecting the property as directly related to the requested permit/service.

  
 SIGNATURE OF APPLICANT

4/2/13  
 DATE



**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](http://www.facebook.com/hocohealth)  
Twitter: HowardCoHealthDep

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

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March 20, 2013

Mr. & Mrs. Kline  
13500 Orion Drive  
Dayton, MD 21036

**Re: Building Permit  
#B13000716**

Dear Mr. & Mrs. Kline,

This letter is regarding your building permit application received by our office on 3/8/13 for a two story addition. We are unable to recommend approval of your application at this time.

The Health Department requires an approved Percolation Certification Plan (*per Howard County Code Sec. 3.805*) for structures that increase living space over 250 sq. ft. The purpose of this plan is to identify sufficient septic reserve area and verify that the existing septic system can adequately accommodate any proposed or reasonably foreseeable increases in sewage flow.

Alternatively, you may request a variance to waive the requirement of the Percolation Certification Plan given that the current septic system capacity is adequate to support the addition if there is no additional flow due to an increase in bedrooms. The proposed addition also meets the required setbacks to the septic system and the well.

Include any additional information in your request that is helpful or relevant. Also include a copy of existing and proposed floor plans. Forward this letter to the following address:

**Howard County Health Dept.  
Bureau of Environmental Health  
Michael Davis, Assistant Director  
7178 Columbia Gateway Drive  
Columbia, MD 21046**

You may also fax the variance request to 410-313-2648. Variance reviews can take up to 15 business days. Your building permit will remain on hold until all requirements are met. For further questions or concerns please do not hesitate to contact our office during business hours Monday thru Friday 8:00 am to 5:00 pm at (410) 313-1771.

Sincerely,

Heidi Scott  
Well & Septic Program  
Development Coordination Section

Copy: file

TABLE OF CURVE DATA

NO.	RADIUS	LENGTH	TANGENT	DELTA	CHD BEARING & DISTANCE
1-24	688.00	79.78	32.93	07°09'49"	S79°09'01"E - 79.70'
3-27	688.00	84.00	43.04	07°06'49"	S79°09'01"E - 85.94'
28-30	28.00	38.41	24.16	38°01'00"	S81°07'15"E - 34.74'
31-31	28.00	38.41	24.16	38°01'00"	N00°30'55"E - 34.74'
32-34	149.00	197.08	78.60	06°17'38"	N09°04'00"E - 156.97'
35-36	197.00	244.04	124.08	10°18'58"	N11°23'04"E - 244.92'
37-41	112.00	138.91	114.08	11°41'23"	N41°37'25"E - 228.11'
42-44	150.00	171.28	135.00	30°36'10"	N81°09'09"E - 360.00'
45-49	28.00	38.18	23.95	87°20'30"	S12°58'28"E - 34.57'
50-50	28.00	38.18	23.95	87°20'30"	N79°31'42"E - 34.57'
51-54	488.00	584.84	204.78	48°27'41"	S80°57'19"E - 578.47'
55-56	508.00	627.19	227.28	48°27'41"	S80°57'19"E - 414.92'
57-58	28.00	38.27	23.90	90°00'00"	N02°28'10"E - 38.58'
59-59	28.00	38.27	23.90	90°00'00"	S87°31'50"E - 38.58'
60-60	112.00	138.91	114.08	14°16'27"	N33°58'18"E - 278.51'

NOTE: The origin of the coordinates shown hereon is the Maryland State Grid System.

FRANK F. WILLSON & WIFE, ET AL  
446/58, 453/555

COORDINATES		
NO.	NORTH	EAST
1	509,101.54	804,502.50
2	509,578.00	804,582.78
3	509,482.07	804,904.19
4	509,740.04	804,472.28
5	509,707.78	804,904.40
6	510,016.89	804,572.99
7	510,020.00	804,936.33
8	510,078.57	804,928.82
9	510,558.92	804,540.01
10	510,423.54	804,994.38
11	510,443.54	804,618.45
12	510,558.07	804,717.48
13	510,509.04	804,385.84
14	510,501.14	805,042.05
15	510,069.85	805,981.90
16	509,878.09	805,144.05
17	509,228.37	804,978.09
18	509,517.42	805,248.50
19	509,565.50	805,048.00
20	509,565.10	805,048.00
21	509,088.78	804,884.96
22	509,088.90	804,750.05
23	509,142.88	804,878.09
24	509,127.04	804,878.09
25	509,193.88	804,014.25
26	509,367.98	804,498.05
27	509,404.98	804,480.87
28	509,318.00	804,041.80
29	509,300.40	804,054.58
30	509,238.48	804,038.58
31	509,389.80	804,004.80
32	509,300.58	804,758.12
33	509,007.02	804,718.58
34	509,590.82	804,758.58
35	509,058.11	804,741.10
36	509,058.81	804,834.87
37	509,058.81	804,834.87
38	509,058.81	804,834.87
39	509,058.81	804,834.87
40	509,058.81	804,834.87
41	510,118.31	805,042.25
42	510,070.00	805,038.80
43	510,211.88	805,194.90
44	510,107.58	805,128.46
45	510,246.95	805,194.45
46	510,108.80	805,328.70
47	510,578.04	805,008.07
48	510,081.05	805,958.50

TOTAL NO. OF LOTS - 19  
 AREA OF LOTS - 20.752 Ac.  
 PROPOSED AREA FOR ROADS - 2.654 Ac.  
 TOTAL AREA - 23.407 Ac.  
 AREA FOR PUBLIC USES - 0.241 Ac.  
 NOTE:  
 The lots shown hereon comply with minimum ownership width and lot area as required by the Maryland State Department of Health Regulations.

FRANK F. WILLSON & WIFE, ET AL  
 446/58, 453/555

O.E. SHEPHERD & WIFE  
 480/165

FRANK F. WILLSON & WIFE, ET AL  
 446/58, 453/555

OWNER & DEVELOPER  
 FRANK F. WILLSON & WIFE, ET AL  
 96 ASHTON REALTY COMPANY  
 MARYLAND ROUTE 105  
 ASHTON, MARYLAND 20702

SECTION TWO  
 LINDEN CHAPEL HILLS

FIFTH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

JUNE 15, 1971

SCALE: 1"=100'

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 County Health Officer: [Signature] 6-29-71  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 Director: [Signature] 6-29-71  
 APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROAD  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Director: [Signature] 6/29/71

OWNER'S CERTIFICATE:  
 We, Frank F. Willson and Linden W. Willson, his Wife, Et Al, owners of the property shown and described hereon, adopt this plan of Subdivision and reserve the fee simple title to the beds of the streets and/or roads shown hereon and in consideration of the approval of this plan by the Office of Planning and Zoning, we for ourselves, our heirs or assigns, do hereby give and grant unto Howard County, Md. the right and option to acquire for the consideration of One Dollar the fee simple title to the beds of the streets and/or roads shown hereon within the period of five years from the date of the recording of this plan among the Land Records of Howard County, Md.  
 Witness our hands and seal this 15th day of June, 1971.  
 Frank F. Willson  
 Linden W. Willson

SURVEYOR'S & ENGINEER'S CERTIFICATE:  
 I, William G. Rosch II, hereby certify that the plan shown hereon is correct, that it is a Subdivision of part of the land which by deed dated November 15, 1965, and recorded among the Land Records of Howard County, Md. in Liber W.H.H. 446 at Folio 58 was granted and conveyed by Anne Gertrude Scrivner, Et Al, to Frank F. Willson and Linden W. Willson, his Wife, with certain undivided interests in said land having been granted and conveyed by deed dated May 13, 1966 and recorded among said Land Records in Liber W.H.H. 453 at Folio 55 to Edwin G. Willson and Wife, Et Al, and that stones and/or monuments marked thus were in place as shown.  
 I further certify that the requirements of Section 90-B, Article 17 of the Annotated Code of Maryland (as amended) as far as they relate to the making of this plan have been complied with.  
 Date: August 31, 1971  
 William G. Rosch II - Reg. No. 4575

PURDUM AND JESCHKE ENGINEERS LAND SURVEYORS  
 3607 PARK AVE.  
 ELLICOTT CITY, MD. 21043  
 FILED JUN 30 1972



HSA CA

NOT TO SCALE

AP

P-2

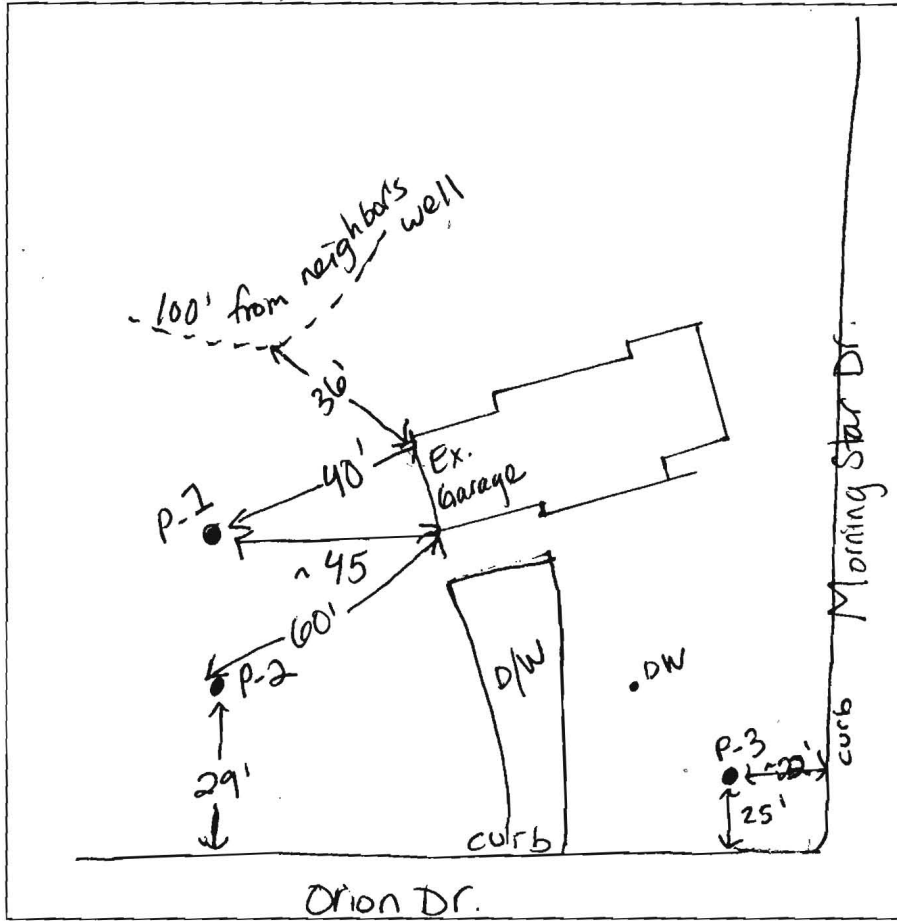
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 8' yellow  
 brn sl  
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 beige  
 fs l  
 saprolite  
 mang mica  
 11' white  
 ls  
 saprolite

P-2

1' brn l  
 5' org brn  
 scl lmsbk  
 yellow  
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 saprolite

P-3

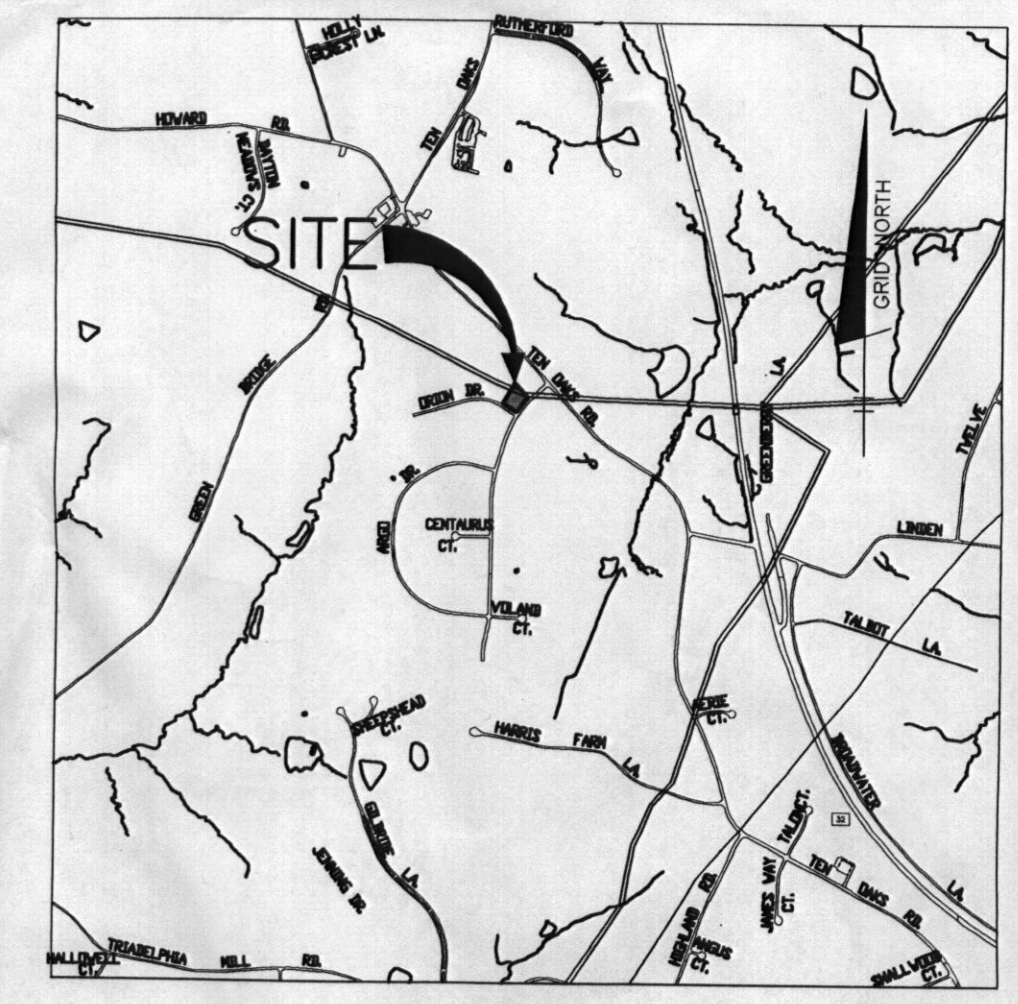
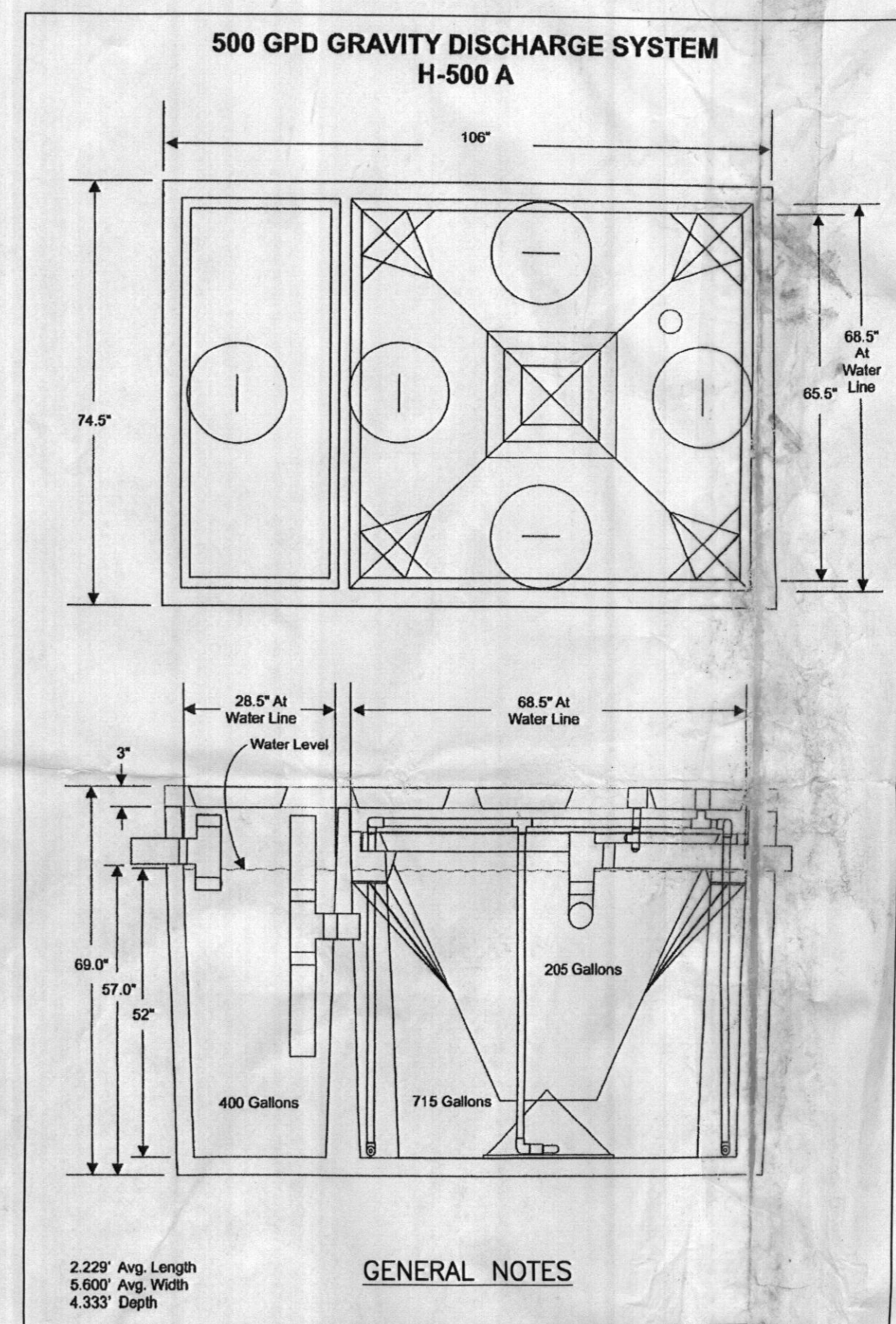
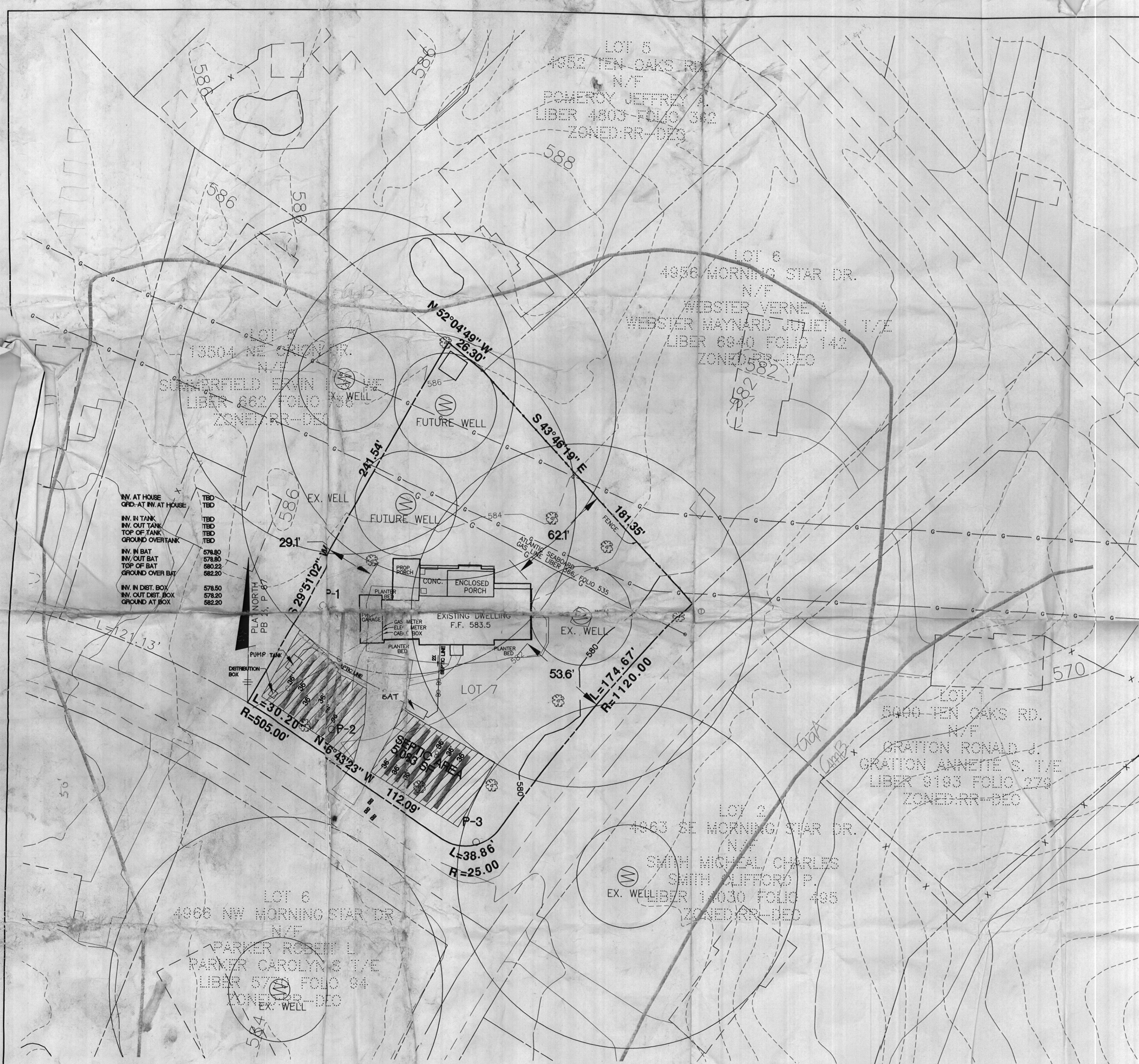
1' brn l  
 4' org brn  
 scl  
 red brn  
 sl  
 common mica  
 6' red brn  
 fs l  
 Saprolite  
 8' pink  
 fs l  
 micaceous  
 12' Saprolite



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
4-24-13	P-1	5' / 11'	9:32 <sup>45</sup>	pulled @ 9:50		reshelf	
	P-2	7' / 12'	9:45 <sup>25</sup>	pulled		reshelf (slow)	
	P-1	6' / 12'	9:54 <sup>22</sup>	10:03	10:23	20	P
	P-2	8' / 12'	10:03	10:09	10:14	5	P
	P-3	6' / 12'	10:46	10:49	10:52	3	P

REMARKS End of ex. trench exposed, clean stone  
 SANITARIAN HS BACKHOE E. Harrison OTHERS \_\_\_\_\_  
 TEST HOLES USED IN SDA 3 AVG. PERC TIME 9 SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH 3 INLET DEPTH 4 MAX. BOT DEPTH 8 EFFECTIVE SW 1.5'





- GENERAL 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 4.33 feet. Please refer to manufacturer specifications for verification.
  3. Please refer to the manufacturer specifications for determining the location of the blower relative to the tank.
  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 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.
  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.

- GENERAL NOTES**
1. THE LOT SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
  2. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 5,082 S.F. THIS LOT DOES NOT REQUIRE 10,000 SQ. FT. 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. THE RECORDED OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE REQUIRED.
  3. EXACT LENGTH OF SEPTIC TRENCHES IS TO BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
  4. TOPOGRAPHY SHOWN IS BASED ON HOWARD COUNTY GIS AND IS TO BE VERIFIED BY BENCHMARK ENGINEERING, INC.
  5. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
  6. THE PURPOSE FOR THIS PERCOLATION TEST PLAN IS TO CREATE A SEWER DISPOSAL EASEMENT IN SUPPORT OF BUILDING PERMIT APPLICATION # \_\_\_\_\_.
  7. THE EXISTING WELL, HO-73-0327 WAS LOCATED BY BENCHMARK ENGINEERING, INC.
  8. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
  9. THE EXISTING SEPTIC SYSTEM WILL BE UPGRADED PRIOR TO BUILDING PERMIT APPROVAL.
- I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.
- DATE: 4/28/13
- HOWARD COUNTY HEALTH OFFICER

**LEGEND**

SOILS CLASSIFICATION	CHB2	EXISTING STRUCTURE	[Symbol]	PASSED PERCOLATION TEST	[Symbol]
SOILS DELINEATION	[Symbol]	PROPOSED STRUCTURE	[Symbol]	PROPOSED WELL	[Symbol]
EXISTING CONTOURS (HOWARD COUNTY DIGITAL)	[Symbol]	EXISTING WE FIELD SHOT	[Symbol]	EX. WELL	[Symbol]
EXISTING WOODS LINE	[Symbol]	EXISTING SEI FIELD	[Symbol]		
PROPOSED WOODS LINE	[Symbol]	PROPOSED TIC FIELD	[Symbol]		

**SOILS CHART**

SYMBOL	HYDRIC	HYDROLOGIC GROUP	NAME
GcA	B		GLENELG LO/ 0 TO 3 PERCENT SLOPES
GcB	B		GLENELG LO/ 3 TO 8 PERCENT SLOPES
GcC	B		GLENELG LO/ 8 TO 15 PERCENT SLOPES

THERE ELEVATIONS OF THE SEPTIC TANK AND PUMP WILL BE DETERMINED AT THE TIME OF INSTALLATION BASED ON THE EXISTING SEPTIC LINE INVERTS.

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/ByRestoration/und/OnsiteDisposalSystems/Pages/water/cbwr1/cads/bat\\_bot\\_process.aspx](http://www.mde.state.md.us/programs/Water/ByRestoration/und/OnsiteDisposalSystems/Pages/water/cbwr1/cads/bat_bot_process.aspx)

PLAN  
SCALE: 1" = 30'

**BENCHMARK ENGINEERING, INC.**  
LAND SURVEYORS & PLANNERS

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: 7-22-2013

DATE: 6/28/2013

OWNER/DEVELOPER:  
TAX ID: STRICT:05  
ACCOUNT: 367700  
RICK AND ALERIE KLINE  
13500 ORION RD  
DAYTON, MD 21036  
(443) 95-2335

PROJECT:  
13500 ORION DR.  
LOT 7

LOCATION:  
TAX MAP-28 PARCELS-167  
5TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE:  
PERCOLATION CERTIFICATION PLAN  
AND SITE PLAN FOR BAT INSTALLATION

DATE: MAY, 2013 PROJECT NO. 2532

DRAFT: BFC DESIN: BFC CHECK: - SCALE: AS SHOWN SHEET 1 OF 1