



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AVP 555347

AGENCY REVIEW: _____

DATE 12/2/14

DO NOT WRITE ABOVE THIS LINE

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

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH 4 PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) James Hush

DAYTIME PHONE 404226970 CELL _____ FAX _____

MAILING ADDRESS 6512 Nervin Ave Sykesville Md 21784
STREET CITY/TOWN STATE ZIP

APPLICANT Souder Builders Inc

DAYTIME PHONE 3018540166 CELL 3018074480 FAX 3018540221

MAILING ADDRESS 13330 Clarksville Pike P.O. Box 153 Highland Md. 20777
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME Ten Oaks Farm LOT NO. 5

PROPERTY ADDRESS 5453 Harris Farm Rd Clarksville Md 21021
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 28 GRID 20 PARCEL(S) 389 PROPOSED LOT SIZE 3.05 AC

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT.

[Signature]
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

HD-216 (2/03)

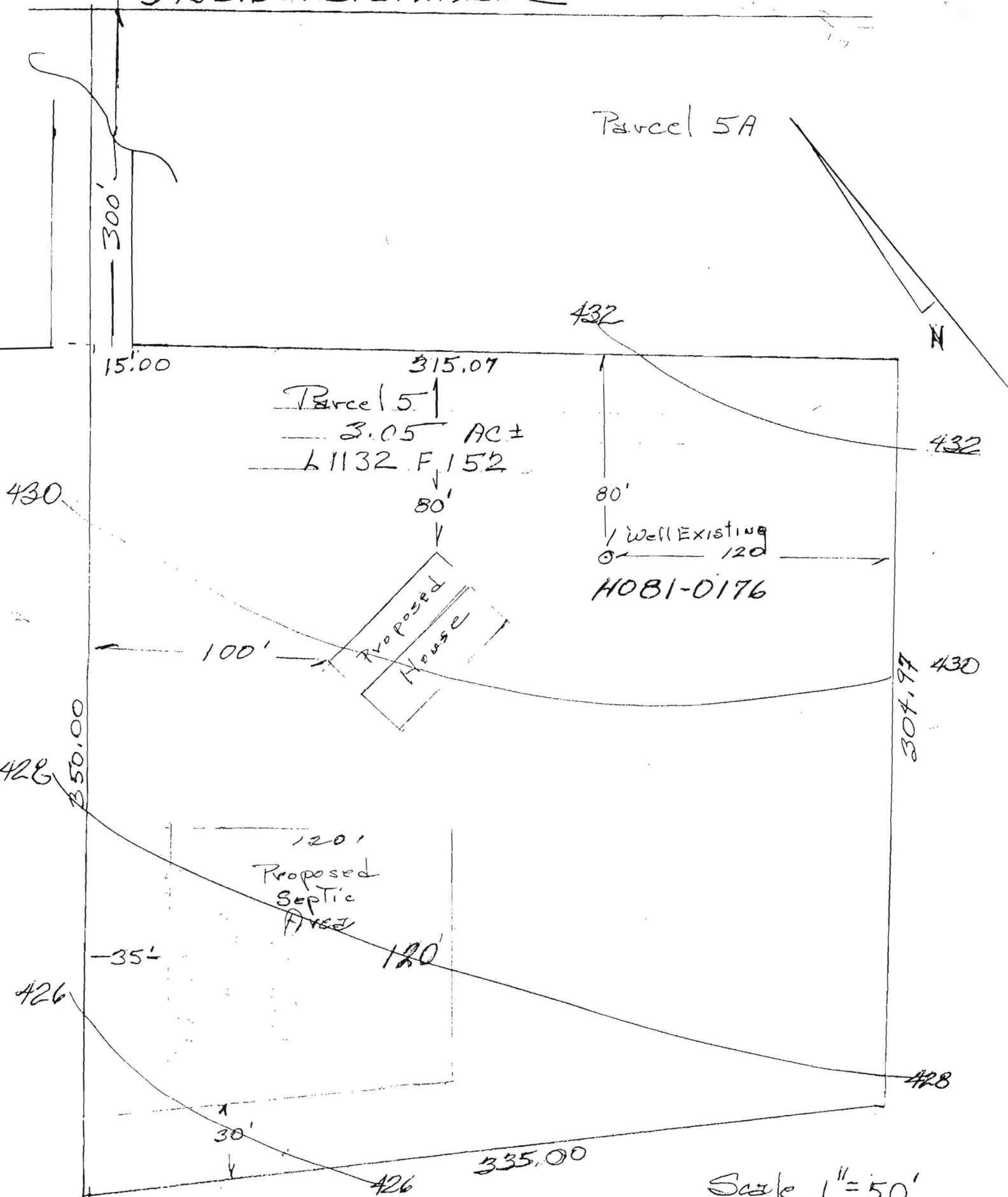
PLEASE SUBMIT ORIGINALS ONLY (BY MAIL OR IN PERSON)

Souder Inc@verizon.net

Ten Oaks Farms
5453 Harris Farm Lane

→ To Ten Oaks Rd

Parcel 5A



Scale 1" = 50'

HOWARD COUNTY PERC TEST REPORT

A/P# _____

Lot # _____

Hole # 1

Red Brown
 SL
 Dense
 many
 mica
 5.7'

Red Brown
 Sh
 with pockets
 of loamy
 sand @
 many mica
 15.5'

Hole # 2

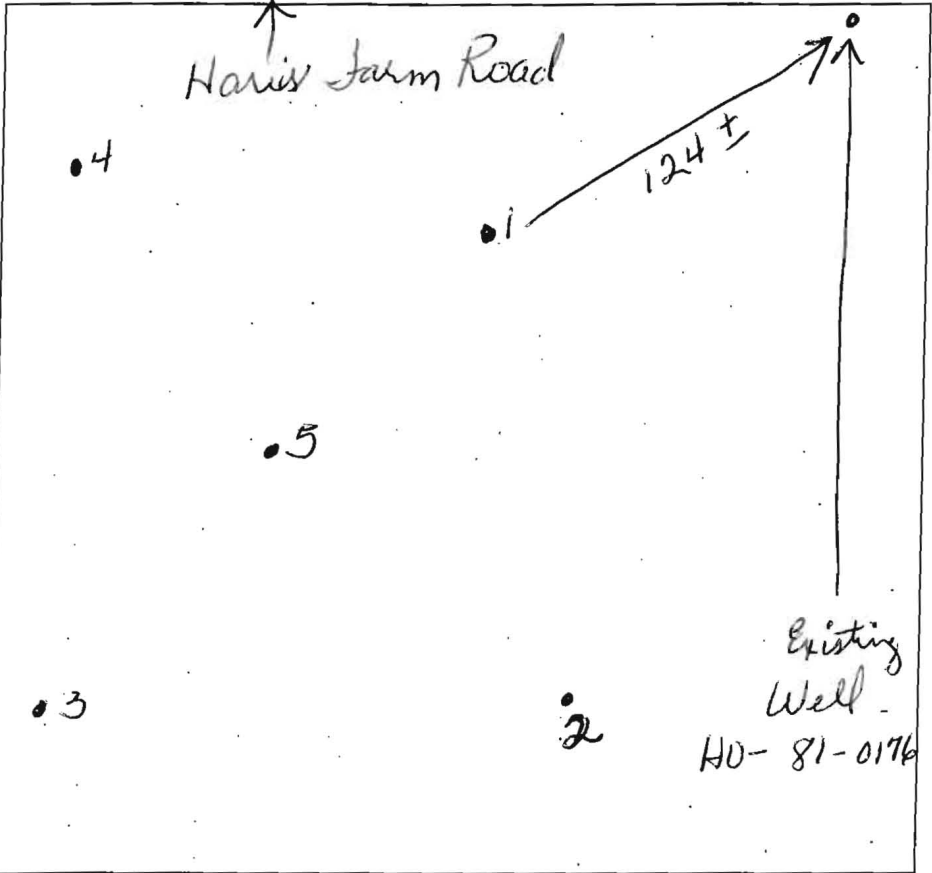
Red Brown
 yellow
 SL
 many
 mica
 4'

Red Brown
 Sh
 many mica
 10-20%
 R4
 ↓

Hole # 3

Red Brown
 yellow
 SL
 many
 mica
 6'

Red Brown
 yellow
 SL
 5-10%
 R4
 ↓
 15'



Hole # 4

Red Brown
 SL
 many
 mica
 Dense
 packets of
 magnetite
 deposit
 6'

Red Brown
 Sh
 many
 mica
 ↓
 15'

Hole # 5

Red Brown
 yellow
 SL
 5-10%
 R4
 5'

Red Brown
 yellow
 SL
 10-20%
 R4
 many
 mica
 15'

Hole #

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
3-12-15	1	6.4 15.4	10:55	11:05	11:15	10 min	P
3-12-15	2	5 15	11:17	11:20	11:36	10 min	P
3-12-15	3	7.3 15	11:32	11:38	11:45	7 min	P
3-12-15	4	6 15	10:44	10:54	11:15	2 min	P
3-12-15	5	4 15	11:46	12:07	12:23	16 min	P

REMARKS

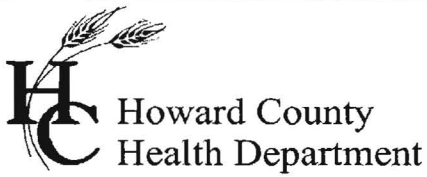
SANITARIAN Deunard BACKHOE Smiley (Joggles)

OTHERS _____ SQ. FT/BR _____

TEST HOLES USED IN SDA _____ AVG PERC TIME _____

TRENCH WIDTH _____ INLET DEPTH _____

MAX BOT DEPTH _____ EFFECTIVE SDW _____



Bureau of Environmental Health
8930 Stanford Drive Columbia, MD 21045
(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

Date: March 17, 2015

To: Souder Builders, Inc.
C/o Donald Souder
13330 Clarksville Pike
Highland, Maryland 20777

RE: **Percolation Testing Report**
5453 Harris Farm Road
Tax Map 30, Parcel 227

Mr. Souder,

Percolation testing was conducted on the referenced property and completed on March 12, 2015. The purpose for conducting these percolation tests was for an anticipated establishment of a sewage disposal area for one lot.

A total of (5) five test holes were evaluated and twenty were found to be satisfactory with moderate percolation. Acceptable ranges for recommended inlet and trench bottom depth, and usable sidewall are indicated, and may be confirmed at the time of installation for the five (5) percolation test holes which were satisfactory. Field data collected is shown on the Percolation Test Worksheet enclosed with this letter.

All percolation tests conducted were standard tests, measuring rate of fall for a pre-wet period followed by measurement and recordation of the time required for the water level to drop 1 inch. Areas that may be included in a septic reserve are represented by test locations having satisfactory soil conditions. The area of the septic reserve must be at least 10,000 square feet, though Howard County Code [3.805.A.2.X] requires that the area be large enough to accommodate an initial drain field and two repair drain fields for the planned residence. The existing house on lot #1 must upgrade the existing septic system. The well on Lot # 1 must also be abandoned and new wells drilled on all lots before building permit approval.

The next step in this process is to submit a Percolation Certification Plan to confirm the design of the septic reserve area for this lot. If you have any questions regarding this evaluation or requirements for the Percolation Certification Plan, please contact me at the above address or by telephone at (410) 313-2775.

Respectfully,

Dana Bernard, REHS/RS
Environmental Specialist II
Well and Septic Program

Enclosures (2)
Cc: File

Spoke to Mr.
Souder
E-Mailed information
for Perc Plan

12-10-14 ~~Spoke~~ ~~with Souder~~
1-12-15
Waters
HP



HOWARD COUNTY HEALTH DEPARTMENT

55347

DATE 12/2/14

A5

Received From

Budger Builders Inc.
(Donald Souder)

PHONE #

301 807-4480

- CASH
- CHECK

For

Perc 0pp/5453 + Harrison
RD.

NO.

8671

(301) 807-4480

\$

506.00

Dollars

Received By

Quantia Corp

Bernard, Dana

From: Bernard, Dana
Sent: Wednesday, December 10, 2014 4:08 PM
To: 'Souderinc@verizon.net'
Subject: 5453 Harris Farm Lane
Attachments: perctestandplanreqs[1].pdf

Mr. Saunders,

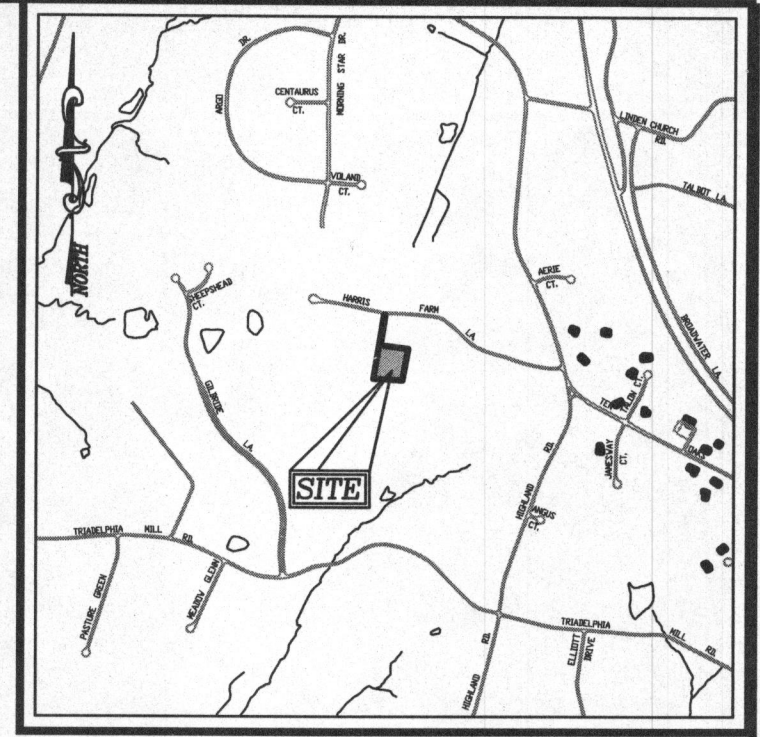
Per our conversation, I have attached the Percolation Certification requirements for developing lots. If you have any additional questions just send me an e-mail and I will get back to you as soon as possible.

Thank you & Have a*""
,.,.,,*"" ,.,,*""
(.,. (.,. * Wonderful Day !

Dana Bernard, REHS/RS
Environmental Specialist II
Bureau of Environmental Health
Well and Septic Program
Phone (410) 313-2775
E-mail: DBernard@howardcountymd.gov

GENERAL NOTES:

1. THE PROPERTY OUTLINE IS BASED ON A SURVEY PREPARED BY WALTER PARK, DATED 2-10-1988
2. THE TOPOGRAPHY SHOWN HEREON IS BASED ON HOWARD COUNTY GIS.
3. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
4. ANY CHANGE TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.



VICINITY MAP
SCALE: 1"=2000'
ADC MAP/GRID = 4933 - C5

SOILS LEGEND HOWARD COUNTY SOILS MAP #16				
SYMBOL	NAME / DESCRIPTION	GROUP	ERODIBLE	HYDRIC
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	NO	YES
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	NO	YES

SOILS NOTE:

HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR K GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

LEGEND

- EXISTING CONTOUR
- EXISTING TREES TO REMAIN
- SOIL BOUNDARY
- PROPERTY LINE
- ADJACENT PROPERTY LINE
- PROPOSED PERC. TEST
- EXISTING WELL
- PROPOSED SEPTIC AREA

NOTE:

THE PURPOSE OF THIS PERCOLATION TEST PLAN IS TO ESTABLISH A CURRENT SEPTIC AREA FOR THE SUBJECT PROPERTY.

OWNER/DEVELOPER

JAMES HUSH
5453 HARRIS FARM LANE
CLARKSVILLE, MD 21029

NO.	REVISION	DATE

HUSH PROPERTY
PERCOLATION CERTIFICATION PLAN
5453 HARRIS FARM LANE
CLARKSVILLE, MD 21029
(L. 1860 / F. 48)
LOT 5
ZONE: RR-DEO
PARCEL 389
HOWARD COUNTY, MARYLAND

TAX MAP: 28 BLOCK: 20
5TH ELECTION DISTRICT

ROBERT H. VOGEL ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS
8407 MAIN STREET TEL: 410.461.7666
ELLICOTT CITY, MD 21043 FAX: 410.461.8961

PROFESSIONAL CERTIFICATE

DESIGN BY: _____ RHV
DRAWN BY: _____ JMR/KG
CHECKED BY: _____ RHV
DATE: _____ DECEMBER 2014
SCALE: _____ 1"=50'
W.O. NO.: _____ 14-59

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. 16193
EXPIRATION DATE: 09-27-2016

ROBERT H. VOGEL, PE No.16193



PERCOLATION CERTIFICATION:
I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION AND IS CORRECT TO MY BEST KNOWLEDGE AND BELIEF.

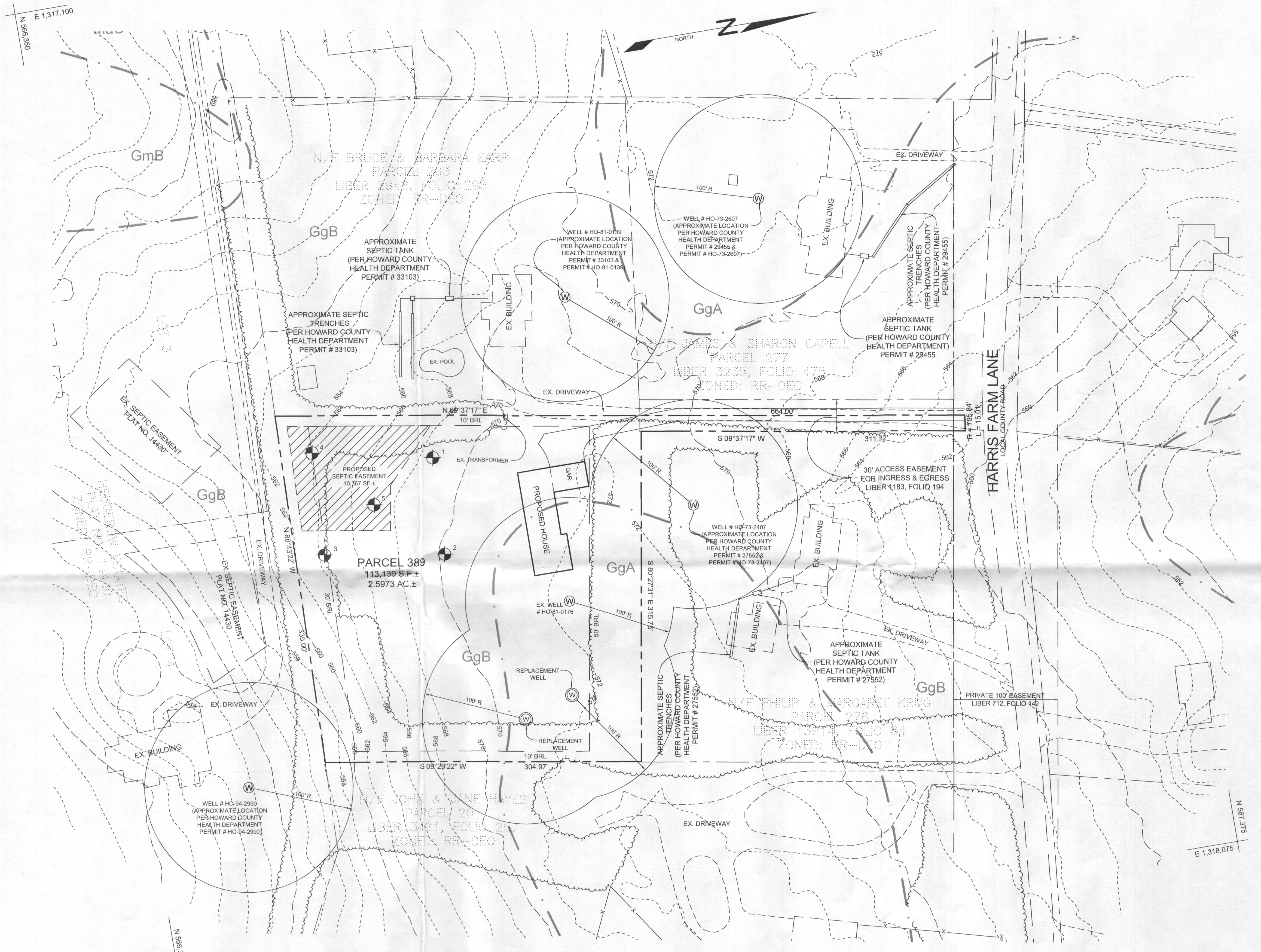
APPROVED : FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

PERC TEST PLAN
SCALE: 1"=50'

THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS EASEMENT ARE RESTRICTED. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A REVISED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.

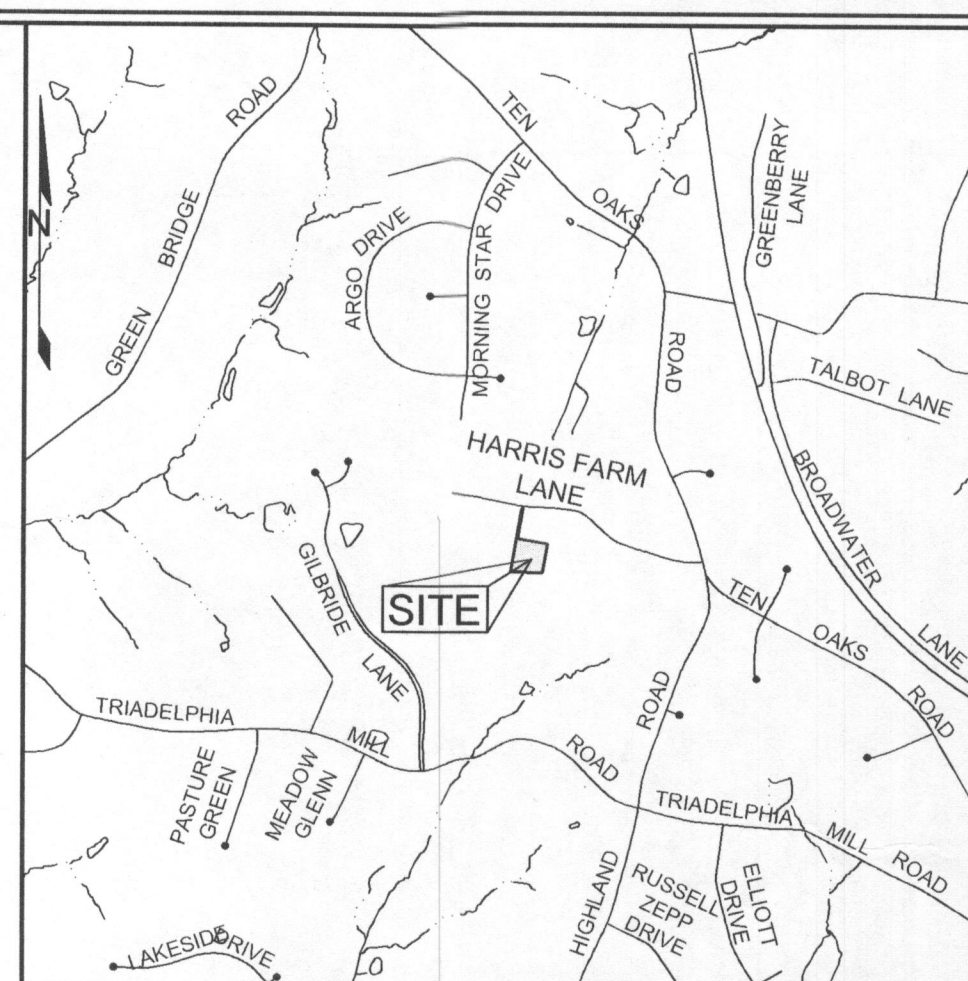
THOMAS M. HOFFMAN, JR. DATE
LAND SURVEYOR No. 267

COUNTY HEALTH OFFICER DATE
HOWARD COUNTY HEALTH DEPARTMENT



LEGEND

- EXISTING CONTOUR
- EXISTING TREENLINE
- PERCOLATION TEST HOLE STANDARD, PASSED
- EXISTING WELL LOCATION
- PROPOSED REPLACEMENT WELL LOCATION
- SOIL BOUNDARY



VICINITY MAP
SCALE: 1"=200'

SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	0.28
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	0.28

NOTES

- SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY
- HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

- GENERAL NOTES**
- SUBJECT PROPERTY ZONED RR-DEO PER 09/06/2013 COMPREHENSIVE ZONING PLAN
 - TOTAL AREA OF PROPERTY = 2.5973 AC ±
 - PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE
 - THIS AREA DESIGNATES A PRIVATE SEWER EASEMENT, OF AT LEAST 10,000 SF AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWER EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
 - THE BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY SHANBERGER & LANE IN AUGUST, 2015
 - THE TOPOGRAPHY SHOWN ON SITE WAS FIELD RUN BY SHANBERGER & LANE, IN JUNE 2015 AND ACCURATELY REPRESENTS THE RELATIVE CHANGES ON THE SUBJECT PROPERTY. THE EXISTING TOPOGRAPHY SHOWN OUTSIDE THE SITE IS BASED ON HOWARD COUNTY AERIAL TOPOGRAPHY FLOWN IN 2004. ALL CONTOURS SHOWN ARE AT TWO-FOOT CONTOUR INTERVALS
 - PROPERTY ADDRESS: 5453 HARRIS FARM LANE, CLARKSVILLE, MARYLAND 21029
 - REFERENCES: LIBER 16138, FOLIO 376
 - THERE ARE NO EXISTING STRUCTURES ON THE PROPERTY
 - THE LOT SHOWN HEREON COMPLES WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT
 - ALL OFF-SITE EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS ARE SHOWN, AND WERE ESTIMATED PER HOWARD COUNTY HEALTH DEPARTMENT RECORDS
 - EXISTING WELL ON-SITE (HO-81-0176) HAS BEEN FIELD LOCATED
 - ANY CHANGES TO A PRIVATE SEWER EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN
 - THE PURPOSE OF THIS PLAN IS TO FORMALLY ESTABLISH AN APPROVED SEPTIC EASEMENT ON THE PROPERTY IN ACCORDANCE WITH HOWARD COUNTY CODE

PLAN VIEW
SCALE: 1"=50'

PERCOLATION TEST ELEVATIONS

TEST NUMBER	ELEVATION
1	568.8'
2	570.3'
3	564.5'
4	564.3'
5	567.1'

APPROVED FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

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.

COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

PAUL M. SILL, PE, LEED AP
 LICENSED PROFESSIONAL ENGINEER #32025

DATE: 8/26/2015

OWNER/DEVELOPER

VALERIE J. NICHOLS
5453 HARRIS FARM LANE,
CLARKSVILLE, MARYLAND 21029

PERCOLATION CERTIFICATION PLAN

HARRIS FARM

5453 HARRIS FARM LANE

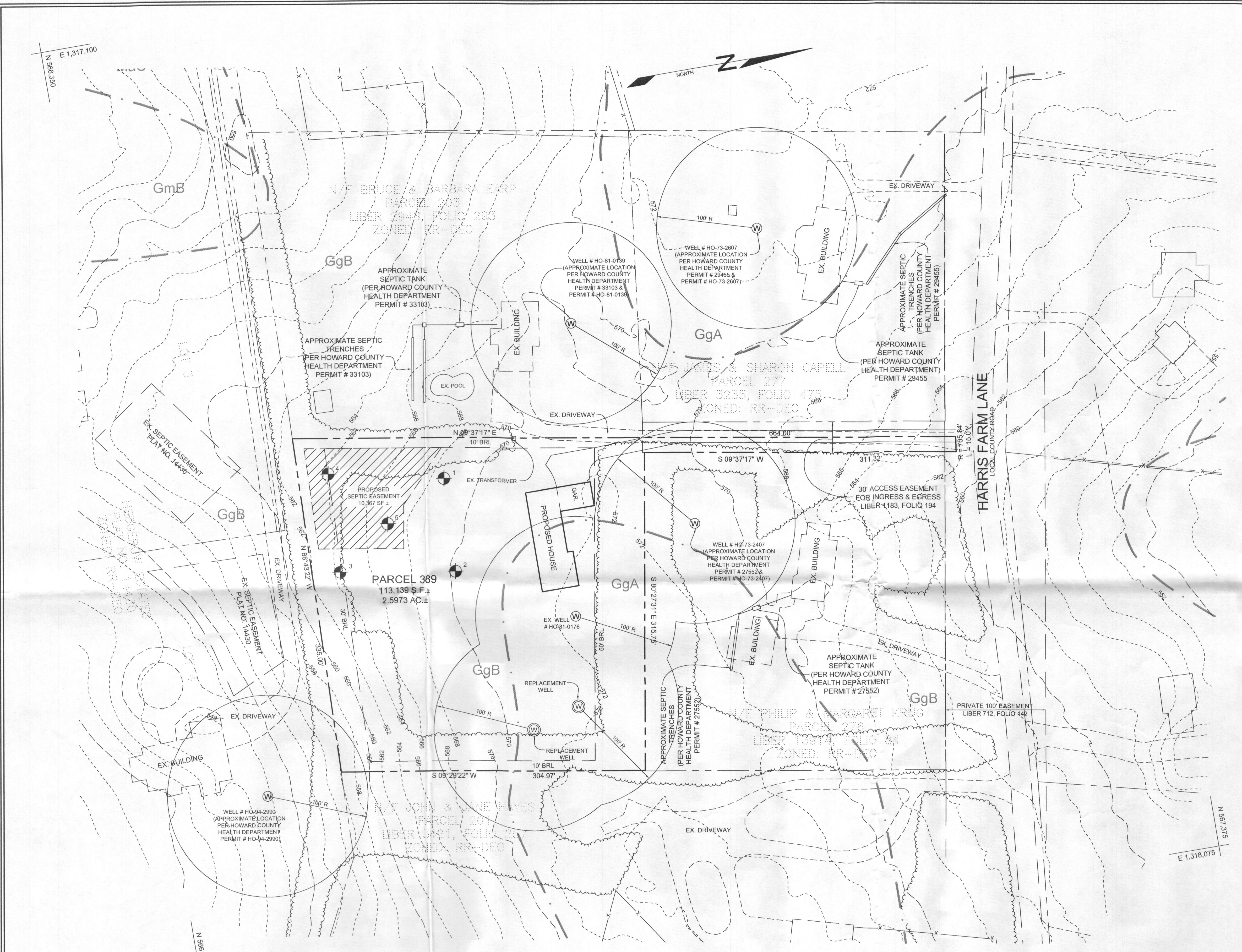
TAX MAP 28, GRID 20 5TH ELECTION DISTRICT

PARCEL 389
HOWARD COUNTY, MARYLAND

SILL ENGINEERING GROUP, LLC
 11130 Dovedale Court, Suite 200
 Marriottsville, Maryland 21104
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

DESIGN BY: PS
 DRAWN BY: AEA
 CHECKED BY: PS
 SCALE: AS-SHOWN
 DATE: AUGUST 17, 2015
 PROJECT #: 15-020
 SHEET #: 1 of 1

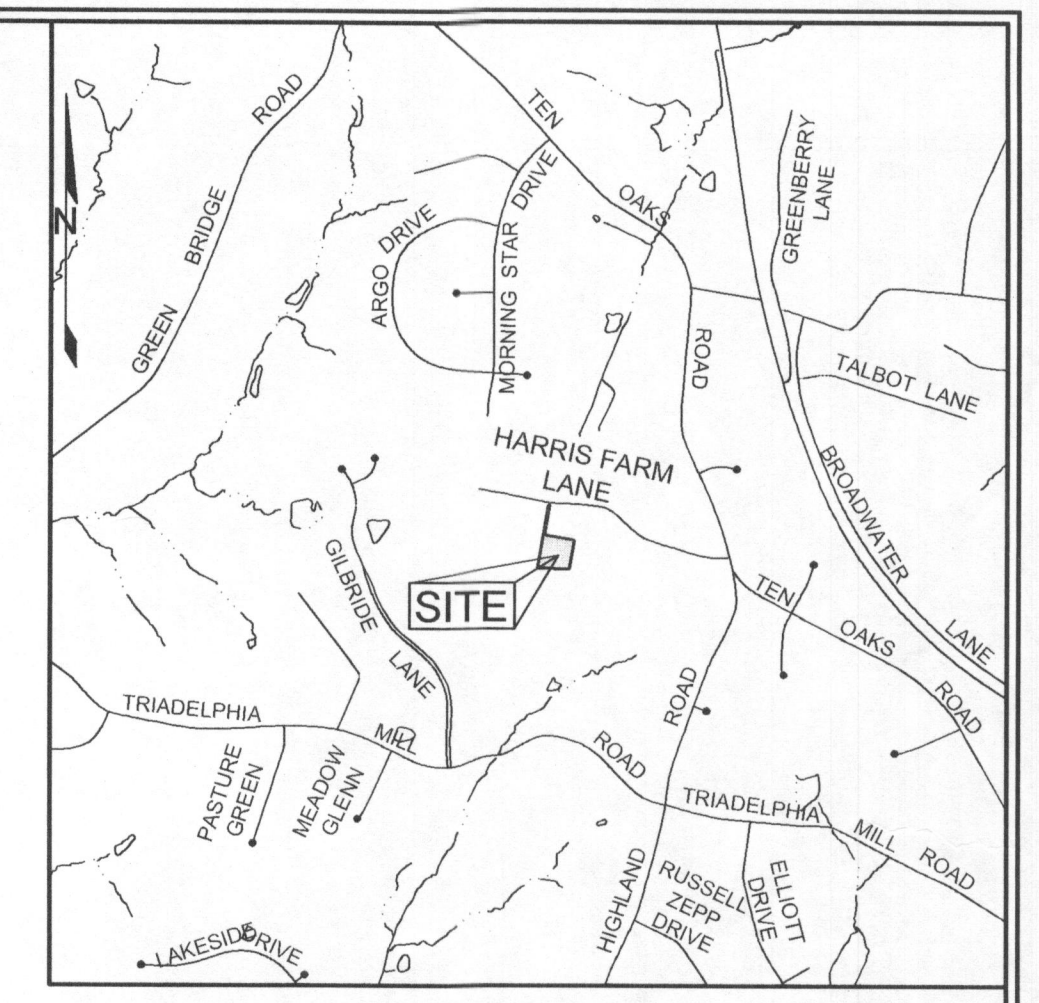
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 30205, EXPIRATION DATE: JUNE 30, 2017.



PLAN VIEW
SCALE: 1"=50'

LEGEND

EXISTING CONTOUR	
EXISTING TREELINE	
PERCOLATION TEST HOLE STANDARD, PASSED	
EXISTING WELL LOCATION	
PROPOSED REPLACEMENT WELL LOCATION	
SOIL BOUNDARY	



VICINITY MAP
SCALE: 1"=2000'

SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	0.28
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NOTES:
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GENERAL NOTES

- SUBJECT PROPERTY ZONED RR-DEO PER 09/06/2013 COMPREHENSIVE ZONING PLAN.
- TOTAL AREA OF PROPERTY = 2.5973 AC ±.
- PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE.
- THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT, OF AT LEAST 10,000 SF AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
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OWNER/DEVELOPER

VALERIE J. NICHOLS
5453 HARRIS FARM LANE,
CLARKSVILLE, MARYLAND 21029

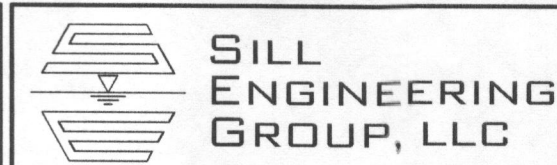
PERCOLATION CERTIFICATION PLAN

HARRIS FARM

5453 HARRIS FARM LANE

TAX MAP 28, GRID 20
5TH ELECTION DISTRICT

PARCEL 389
HOWARD COUNTY, MARYLAND



11130 Dovedale Court, Suite 200
Marriottsville, Maryland 21104
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY:	PS
DRAWN BY:	AEA
CHECKED BY:	PS
SCALE:	AS-SHOWN
DATE:	AUGUST 17, 2015
PROJECT #:	15-020
SHEET #:	1 of 1

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. 30225, EXPIRATION DATE: JUNE 20, 2017.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

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.

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TEST NUMBER	ELEVATION
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Paul M. Sill, PE, LEED AP
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 8/26/2015

PAUL M. SILL, PE, LEED AP
LICENSED PROFESSIONAL ENGINEER #32025
DATE: