



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____ A/P _____

AGENCY REVIEW: _____ DATE _____

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 unknown 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) Thomas A. Howell

DAYTIME PHONE 410-346-6526 CELL _____ FAX _____

MAILING ADDRESS 924 Leppo Road Westminster Md 21157
STREET CITY/TOWN STATE ZIP

APPLICANT Same as property owner

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS _____
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION West side of Triadelphia Road, 1/4 mile south of Roxbury
SUBDIVISION/PROPERTY NAME adjacent to Femiano Estates 10000 Road

PROPERTY ADDRESS 14584 TRIADELPHIA ROAD GLENELG MD 21737
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 21 GRID 22 PARCEL(S) 59 PROPOSED LOT SIZE 3.00Ac

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.

Jan Olszewski
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



PLANNING · SUBDIVISION AND SITE DESIGN · SURVEYING

150 AIRPORT DRIVE, SUITE #4 · WESTMINSTER, MD 21157 · (410) 876-0333 · (410) 857-9030 Fax (410) 876-1532

TO: Howard County Health Dept.

DATE: December ⁷ 1, 2015

Bureau of Environmental Health

SUBJECT: Howell Property

Tridelphia Road

ATTENTION: _____

JOB NUMBER: 15-043-000

WE ARE SENDING YOU THE FOLLOWING ITEMS:

- ☒ ATTACHED ☐ ENCLOSED ☐ UNDER SEPARATE COVER
☒ PRINTS ☐ SECOND ORIGINALS ☐ ORIGINALS ☐ COPIES

NO.	DESCRIPTION
1	Original Application
1	Fee Check in the amount of \$560.00 \$506.00
3	Copies of Perc Plan

FOR APPROVAL

☒ FOR REVIEW

FOR YOUR INFORMATION

☒ FOR YOUR USE

☒ FOR PROCESSING

☐ RETURN TO THIS OFFICE

☒ AS REQUESTED

☐ FOR SIGNATURE

OTHER

REMARKS: _____

Thanks

Randy Bachtel

SIGNATURE OF SENDER



Howard County
Health Department

Bureau of Environmental Health
8930 Stanford Blvd. 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., Health Officer

Date: February 18, 2016

To: BPR Surveying, Inc.
C/O Thomas Howell
Via E-Mail: Rbachtel@bprsurveying.com

RE: **Percolation Testing Report**
14584 Triadelphia Road
Glenelg, MD 21737
Tax Map 21, Parcel 59


Mr. Randy Bachtel,

Percolation testing was conducted on the referenced property on February 18, 2016. The purpose for conducting these percolation tests was for an anticipated establishment of a sewage disposal area for an existing lot.

A total of five (5) test holes evaluated and five (5) were found to be satisfactory with moderate percolation rates. 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 next step in this process is to submit a Percolation Certification Plan to confirm the design of the septic reserve area. There is a Barn structure that must be demolished prior to the issuance of any building permit. If you have any questions or correspondence 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/L.E.H.S.
Environmental Specialist II
Well and Septic Program

Enclosures (2)

File

Cc: Property Owner
Thomas A. Howell
Via: Parcel Post

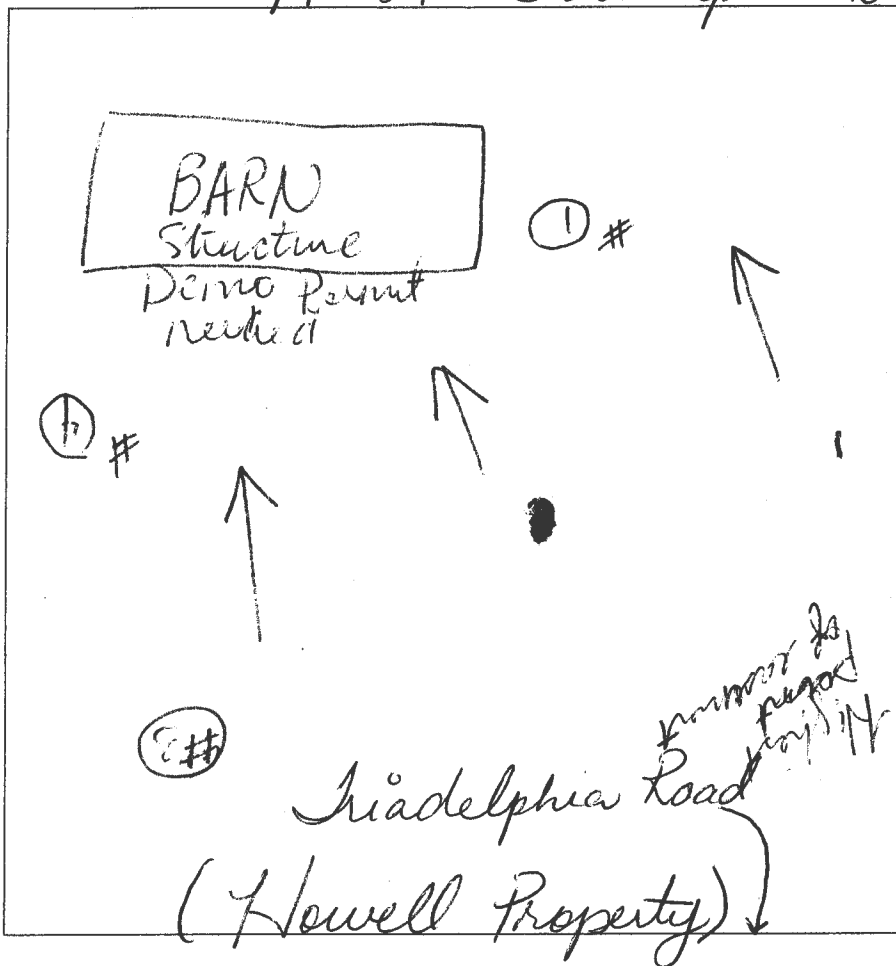
14584 Triadelphia Rd

A/P

#1
Red Brown
yellow
Sh
5.7
Red Brown
yellow
Sh
5-10%
Rk
V
13'

#2
Red Brown
yellow
Sh
5.5
Red Brown
yellow
Sh
V
13'

#3
Red Brown
yellow
Sh
5.5
Red Brown
yellow
Sh
11-12
14'



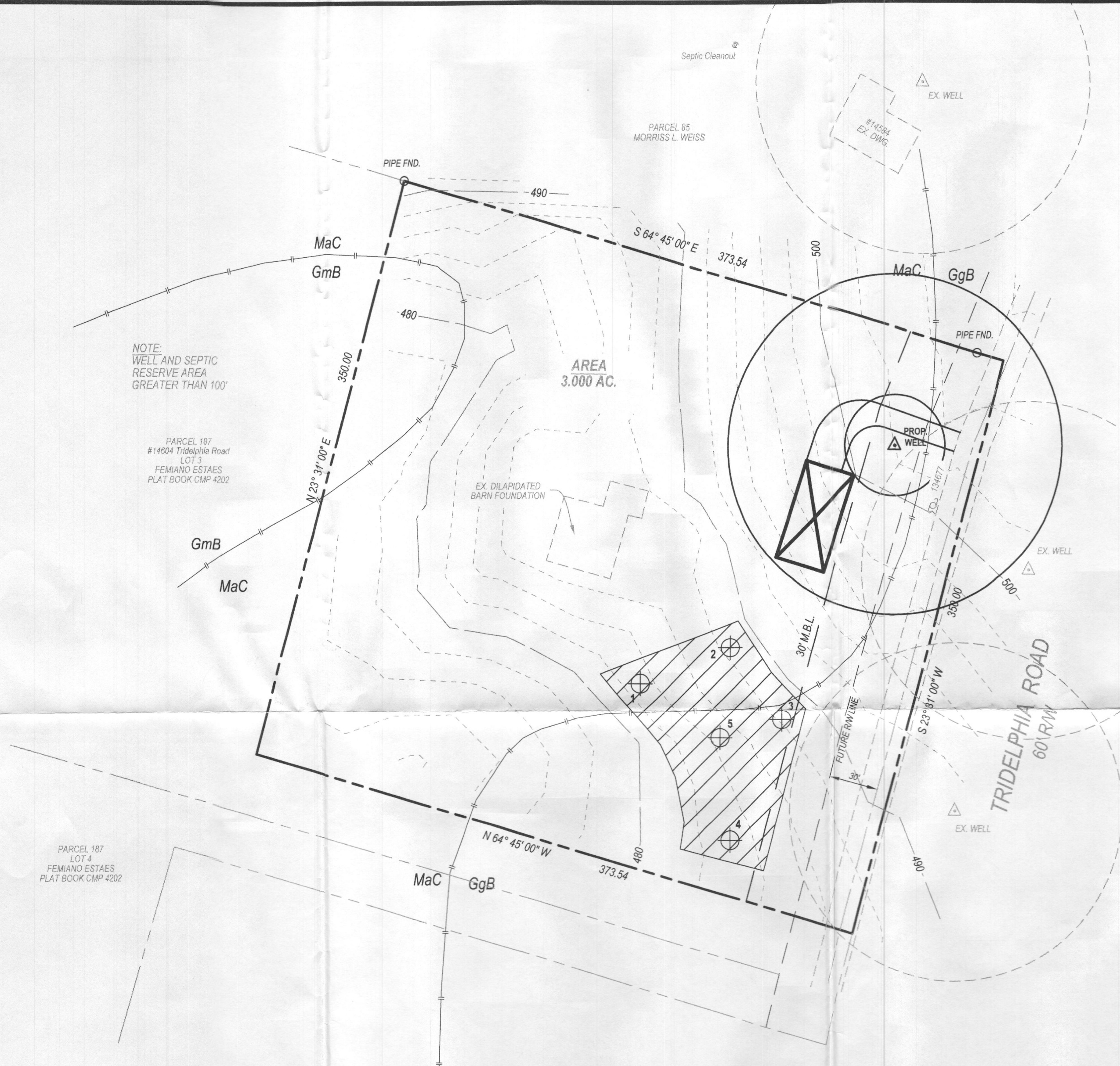
#4
Red Brown
yellow
Sh
5.8
6.8
Red Brown
yellow
Sh
V
13'

#5
Red Brown
yellow
Sh
5-10%
Rk
5.5
Red Brown
yellow
Sh
5-10%
Rk
13'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
2-18-16	3	6.5/14	10:32	10:35	10:39	4 min	P
2-18-16	4	6.5/13	10:41	10:52	11:00	8 min	P
2-18-16	1	6/13	10:53	10:55	10:58	3 min	P
2-18-16	2	6/13	11:02	11:04	11:06	2 min	P
2-18-16	5	6/13	11:11	11:14	11:19	5 min	P

REMARKS

SANITARIAN Bernard BACKHOE Joggles OTHERS _____
TEST HOLES USED IN SDA 5 AVG. PERC TIME _____ SQ. FT/BR _____
TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SAW _____



This area designates a private sewage area as required by the Maryland State Department of the Environment for individual sewage disposal. For lots created prior to March of 1972 it provides at least enough area to accommodate an initial and two replacement septic systems as required by the Howard County Health Department. Improvements of any nature in this area are restricted until public sewerage is available. This area 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 area. Recordation of modified sewage area shall not be necessary.

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.

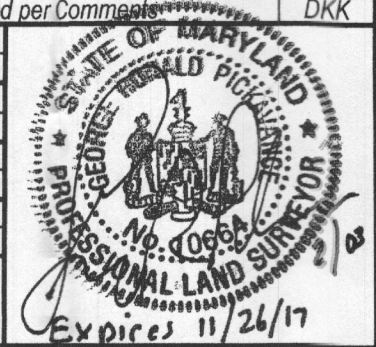
By: _____ Date: _____

"APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS"

HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. _____ DATE _____

LEGEND	
	SUBJECT BOUNDARY
	ADJOINING BOUNDARY
	MAJOR CONTOURS
	DENOTES SOILS LINE
	DENOTES EXISTING WELL
	DENOTES UTILITY POLE

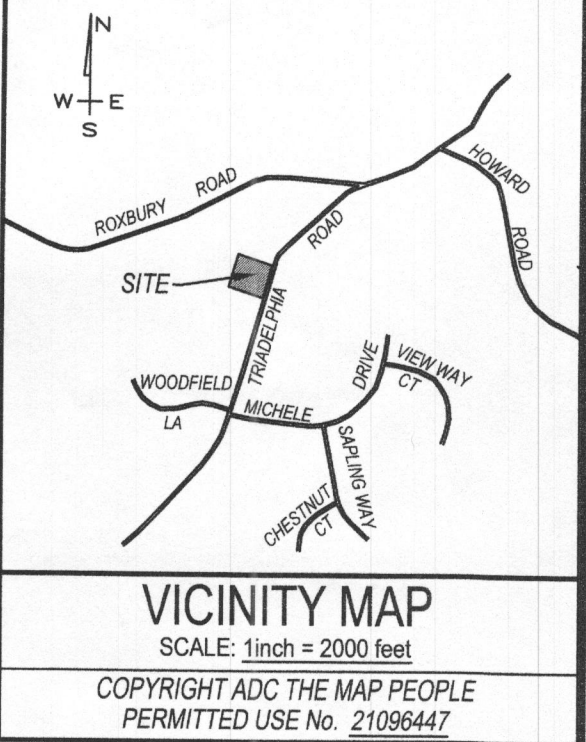
OWNER / DEVELOPER	DATE	REVISIONS	BY
THOMAS A. HOWELL 925 LEPPA ROAD WESTMINSTER, MD 21157	2/03/16	Revised per Comments	DKK
	Surveyed By		
	Computed By		
	B.P.R.		
	Drawn By		
	M.D.B.		
	Checked By		
	B.P.R.		
	Drawing No.		
	15-043-000		



BPR INC
SURVEYORS - LAND PLANNERS
150 Airport Drive
Suite 4
Westminster, Maryland 21157
Phone: (410)-857-9030
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Fax: (410)-876-1532
www.bprs surveying.com

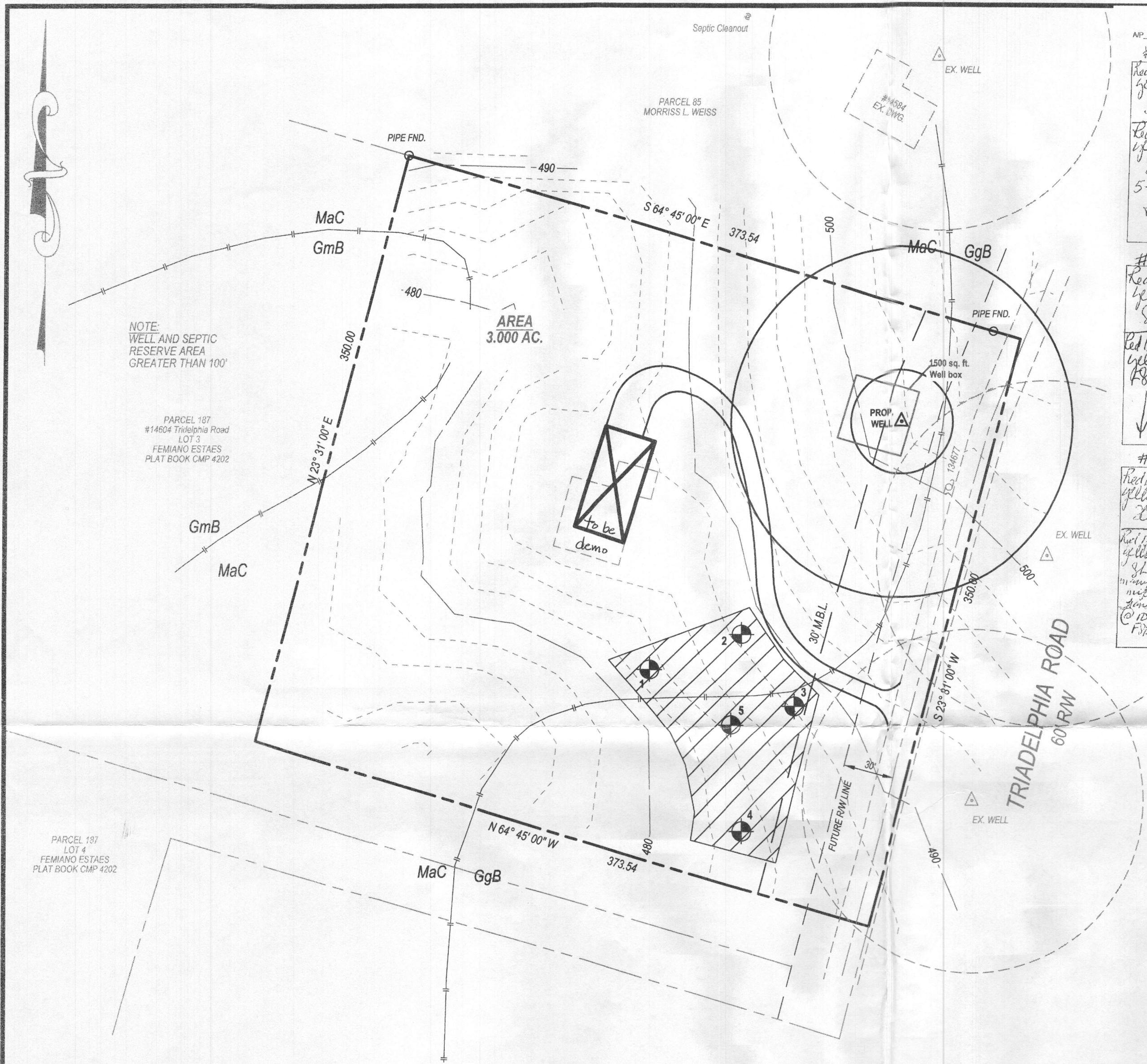
Date: November 11, 2015 Scale: 1 inch = 50 feet

A licensed Maryland Surveyor either personally prepared the Survey as shown hereon, or was in responsible charge over its preparation and the surveying work reflected in it, in compliance with chapter 09.13.06.12 of the Maryland Minimum Standards of Practice for Land Surveyors.



GENERAL NOTES

- Current Title Reference
Owner - THOMAS A. HOWELL AND MARGARET A. HOWELL
Deed reference - 815 / 270
Date - MARCH 28, 1977
Grantor - DOMINIC J. FEMIANO AND ELLEN F. FEMIANO
- The outline shown hereon is based on deed information and a partial survey.
- The topography shown hereon is based on a field survey by BPR, Inc. in 2015 and is verified to accurately represent the relative changes on the subject property.
- Any changes to a private sewage easement shall require a revised percolation certification plan.
- All wells and septic and/or septic systems located within 100 feet of the property boundaries and 200 feet down gradient of any wells and/or septic systems have been shown.
- The purpose of this percolation certification plan is to establish the location of a proposed dwelling and septic system as required.
- This lot complies with the minimum ownership width and lot area as required by Maryland Department of Environment.



14584 Triadelphia Rd

#1 Red Brown yellow Sh 5.7
#2 Red Brown yellow Sh 5.5
#3 Red Brown yellow Sh 5.5
#4 Red Brown yellow Sh 5.5
#5 Red Brown yellow Sh 5.5

BARN Structure Demo Permit needed

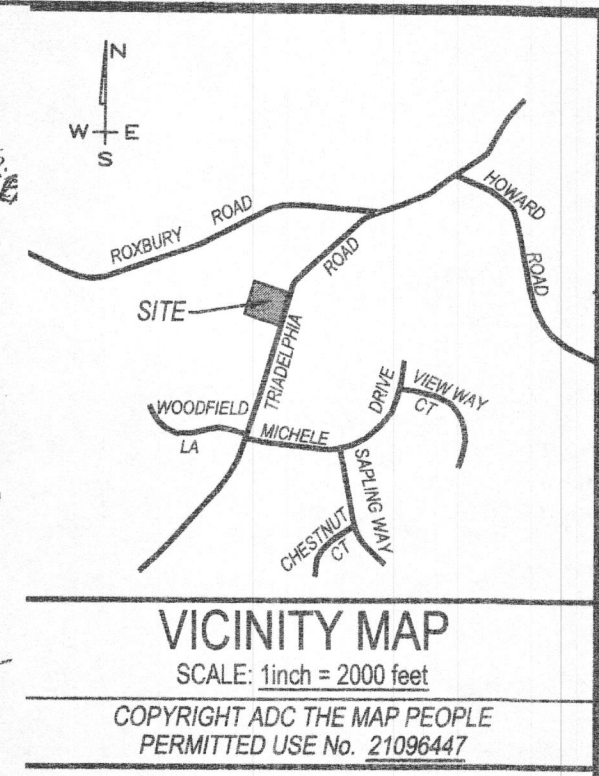
Triadelphia Road (Howell Property)

DATE	TEST #	DEPTH	START	BREAK 1' DROP	STOP 2' DROP	TIME OF 2ND INCH	P/F/H
2-18-16	3	6.5	10:32	10:35	10:39	4 min	P
2-18-16	4	4.5	10:41	10:52	11:00	8 min	P
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2-18-16	2	6.5	11:02	11:04	11:06	2 min	P
2-18-16	5	6.5	11:11	11:14	11:19	5 min	P

REMARKS: SANITARIAN: Bernard BACKHOE: Loggins OTHERS:

TEST HOLES USED IN SDA: 5 AVG. PERC TIME: SQ. FT/HR:

TRENCH WIDTH: INLET DEPTH: MAX. BOT DEPTH: EFFECTIVE SAW:



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Deed reference - 815 / 270
Date - MARCH 28, 1977
Grantor - DOMINIC J. FEMIANO AND ELLEN F. FEMIANO
 - Property Address: 14584 Triadelphia Road
 - Zoned:
 - Professional Statement: 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.
 - Any changes to a private sewage area shall require a revised perc certification plan.
 - Topography shown is at two-foot contour intervals (one-foot intervals are required for mound systems and systems with pipe depth less than two feet) taken from spatial data sets provided by Howard County GIS Division and is verified to accurately represent the relative changes on the subject property. A field run survey performed by BPR Inc, Dated 2015.
 - Existing wells, septic systems, and sewage disposal areas within 100' of the property and those wells within 200' down gradient of existing or proposed septic systems or sewage disposal areas have been shown.
 - ☒ This area designates a private sewage area of at least 10,000 square feet as required by the Maryland Department of the Environment for individual sewage disposal. Improvements of any nature in this area are restricted until public sewerage is available. This area 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 area. Recordation of a modified sewage area shall not be necessary.
 - The lot shown herein complies with the minimum ownership, width, and lot area as required by the Maryland Department of the Environment.
 - A well shall be drilled and approved by the Health Department prior to Health approval of a building permit. The Health Department does not consider the lot a buildable lot until a well has been drilled and approved.
 - Groundwater appropriations permit shall be obtained prior to release of the building permit.
 - An advanced pre-treatment system, which utilizes best available technology to perform nitrogen reduction, must be installed on the septic system. A supplemental site plan with all of the necessary details for installation of the system will be required prior to the release of the building permit (if applicable) and septic system installation permit. In addition, an operation and maintenance contract agreement must be filed with Howard County Land Records within 60 days of plat recordation.

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.

By: [Signature] Date: 4/6/16

"APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS"

[Signature] 4/18/2016
HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. DATE 1988

LEGEND	
	DENOTES EXISTING WELL
	DENOTES PROPOSED WELL
	DENOTES UTILITY POLE
	SUBJECT BOUNDARY
	ADJOINING BOUNDARY
	MAJOR CONTOURS
	DENOTES SOILS LINE
	DENOTES PASSED PERCOLATION TEST

OWNER / DEVELOPER

THOMAS A. HOWELL
925 LEPP ROAD
WESTMINSTER, MD 21157

PERCOLATION CERTIFICATION AND SITE PLAN
14584 TRIADELPHIA ROAD
HOWELL PROPERTY
4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TAX MAP: 21 BLOCK: 22 PARCEL: 59

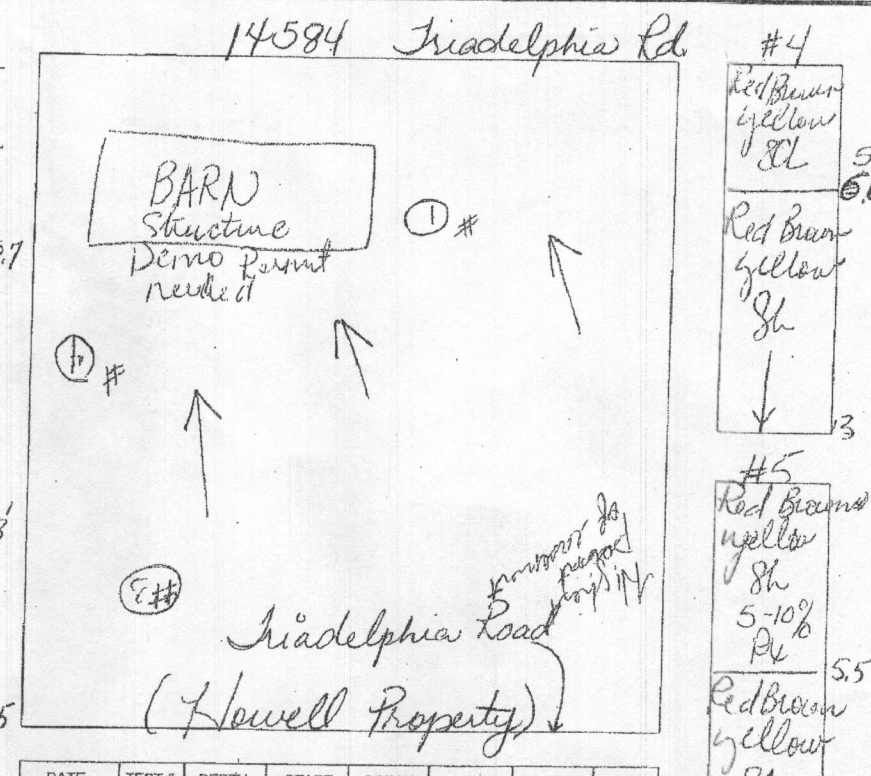
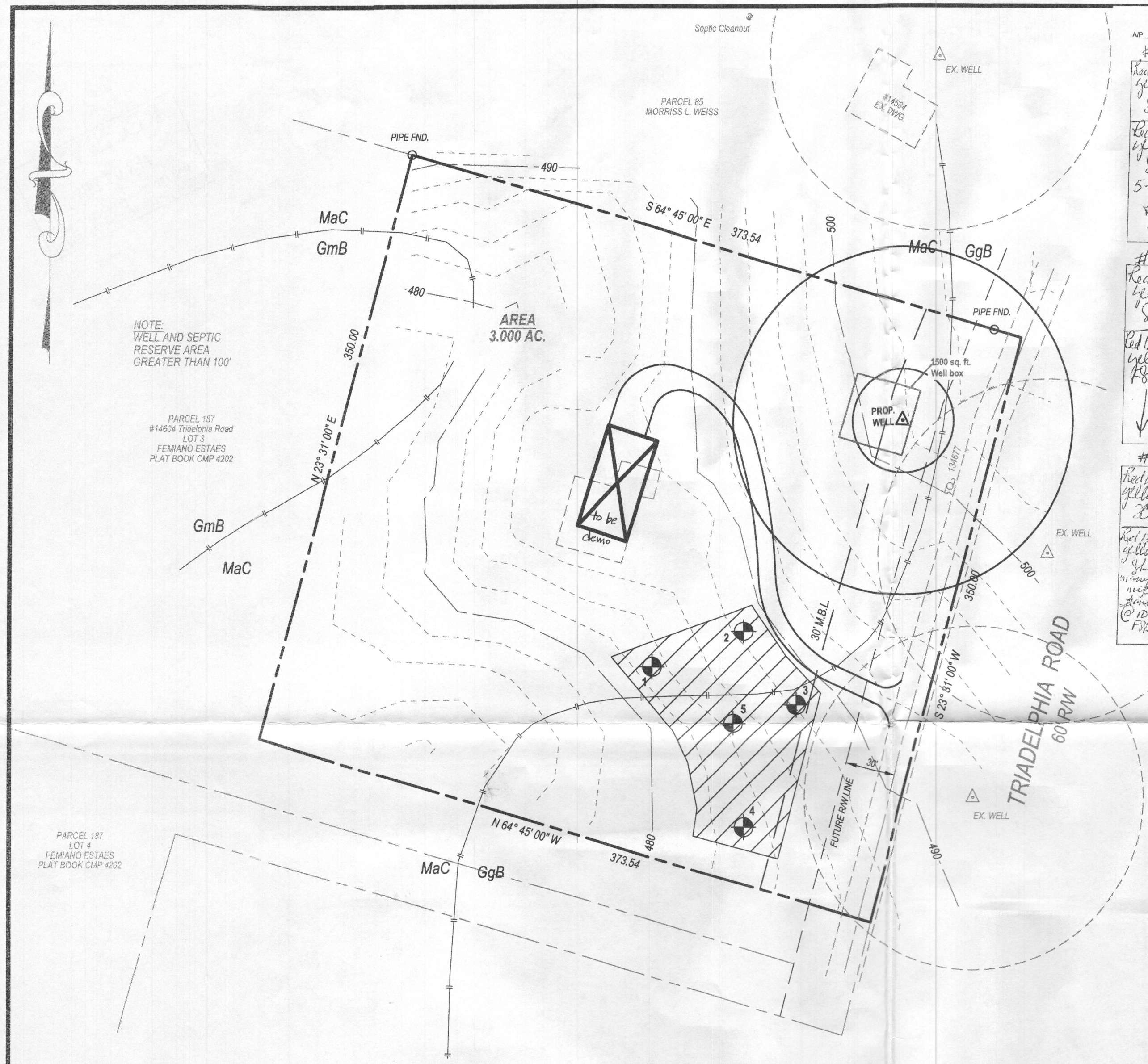
DATE	REVISIONS	BY
2/03/16	Revised per Comments	DKK
4/7/16	Revised added perc results	MDR

Surveyed By: B.P.R.
Computed By: B.P.R.
Drawn By: M.D.B.
Checked By: B.P.R.
Drawing No. 15-043-000

BPR, INC
SURVEYORS - LAND PLANNERS
150 Airport Drive
Suite 4
Westminster, Maryland 21157
Phone: (410)-857-9030
or (410)-876-0333
Fax: (410)-876-1532
www.bprsurveying.com

Date: November 11, 2015 Scale: 1 inch = 50 feet

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TEST HOLES USED IN SDA: 5 AVG. PERC TIME: _____ SQ. FT/HR _____
TRENCH WIDTH: _____ INLET DEPTH: _____ MAX. BOT DEPTH: _____ EFFECTIVE SAW: _____

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Deed reference - 815 / 270
Date - MARCH 28, 1977
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By: [Signature] Date 4/6/16

"APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS"
[Signature]
HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT.
DATE 4/18/2016

LEGEND	
	DENOTES EXISTING WELL
	DENOTES PROPOSED WELL
	DENOTES UTILITY POLE
	SUBJECT BOUNDARY
	ADJOINING BOUNDARY
	MAJOR CONTOURS
	DENOTES SOILS LINE
	DENOTES PASSED PERCOLATION TEST

OWNER / DEVELOPER
THOMAS A. HOWELL
925 LEPP ROAD
WESTMINSTER, MD 21157

PERCOLATION CERTIFICATION AND SITE PLAN
14584 TRIADOLPHIA ROAD
HOWELL PROPERTY
4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
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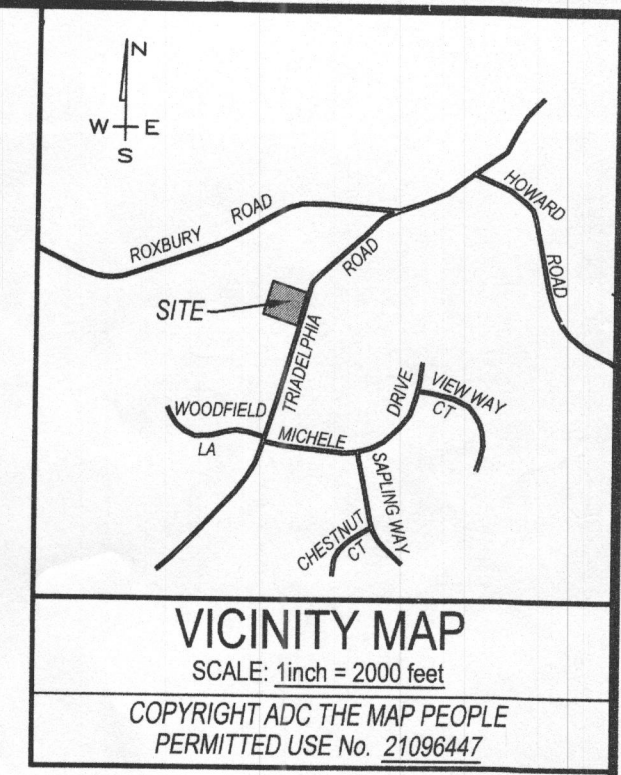
DATE	REVISIONS	BY
2/03/16	Revised per Comments	DKK
4/7/16	Revised added perc results	MDR

Surveyed By B.P.R.
Computed By B.P.R.
Drawn By M.D.B.
Checked By B.P.R.
Drawing No. 15-043-000

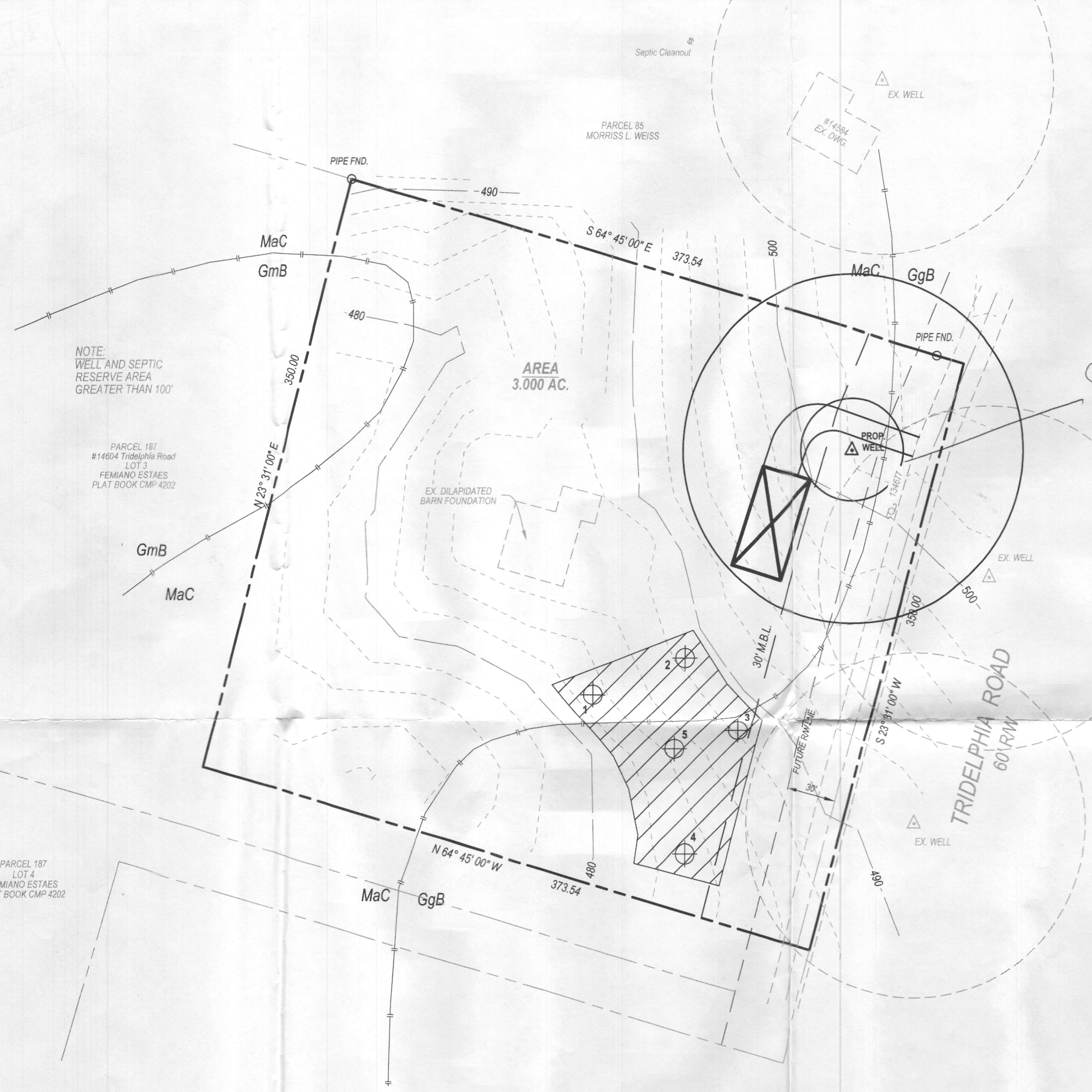
BPR INC
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or (410)-876-0333
Fax: (410)-876-1532
www.bprsurveying.com

Date: November 11, 2015 Scale: 1 inch = 50 feet

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Show a well 1500 ft. S.E.
Box or 3 well sites
1 proposed well
2 alternate well sites



NOTE:
WELL AND SEPTIC
RESERVE AREA
GREATER THAN 100'

PARCEL 187
#14604 Tridelphia Road
LOT 3
FEMIANO ESTAES
PLAT BOOK CMP 4202

PARCEL 187
LOT 4
FEMIANO ESTAES
PLAT BOOK CMP 4202

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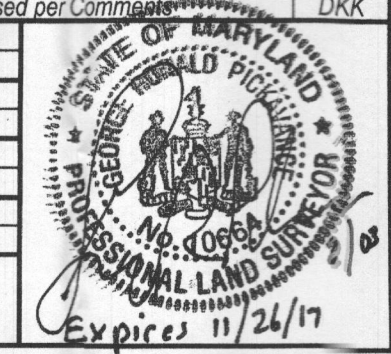
By: _____ Date: _____

"APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS"

HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. _____ DATE _____

LEGEND	
	SUBJECT BOUNDARY
	ADJOINING BOUNDARY
	MAJOR CONTOURS
	DENOTES SOILS LINE
	DENOTES EXISTING WELL
	DENOTES UTILITY POLE

OWNER / DEVELOPER	DATE	REVISIONS	BY
THOMAS A. HOWELL 925 LEPPA ROAD WESTMINSTER, MD 21157	2/03/16	Revised per Comments	DKK
	Surveyed By	B.P.R.	
	Computed By	B.P.R.	
	Drawn By	M.D.B.	
	Checked By	B.P.R.	
	Drawing No.	15-043-000	



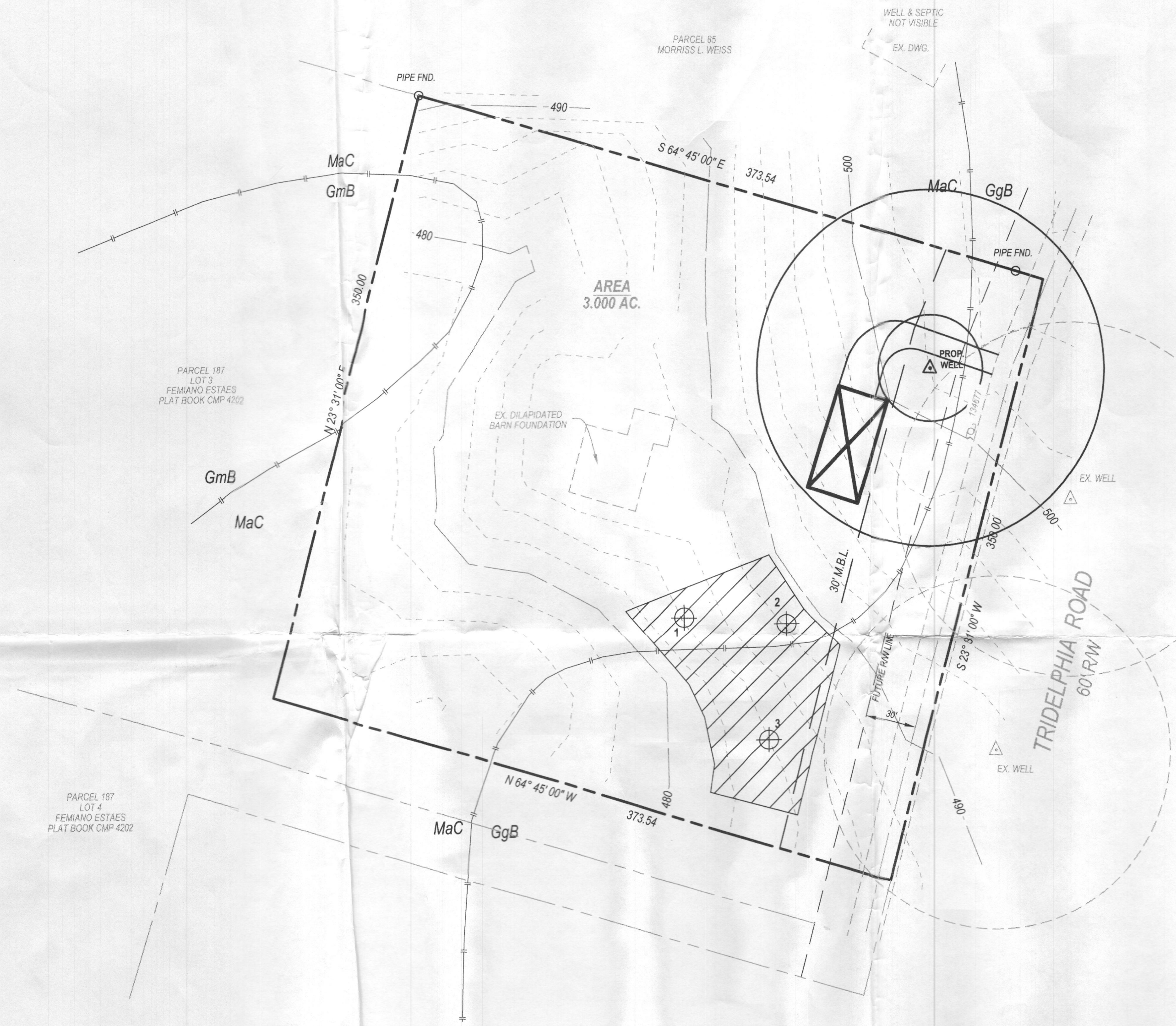
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Date: November 11, 2015 Scale: 1 inch = 50 feet

**PRELIMINARY PLAN
HOWELL PROPERTY**
RECORDED IN LIBER 815, FOLIO 270
14584 TRIADELPHIA ROAD
4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TAX MAP: 21 BLOCK: 22 PARCEL: 59

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VICINITY MAP
 SCALE: 1 inch = 2000 feet
 COPYRIGHT ADC THE MAP PEOPLE
 PERMITTED USE No. 21096447



- GENERAL NOTES**
1. Current Title Reference
 Owner - THOMASA HOWELL AND MARGARET A. HOWELL
 Deed reference - #15 / 270
 Date - MARCH 28, 1977
 Grantor - DOMINIC J. FEMIANO AND ELLEN F. FEMIANO
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By: _____ Date: _____

"APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS"

HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. _____ DATE _____

LEGEND	
	SUBJECT BOUNDARY
	ADJOINING BOUNDARY
	MAJOR CONTOURS
	DENOTES SOILS LINE
	DENOTES EXISTING WELL
	DENOTES UTILITY POLE

OWNER / DEVELOPER		DATE	REVISIONS	BY
THOMAS A. HOWELL 925 LEPO ROAD WESTMINSTER, MD 21157				
		Surveyed By		
		Computed By		
		Drawn By		
		Checked By		
		Drawing No.		
		15-043-000		

Expires 11/26/17

BPR INC
 SURVEYORS - LAND PLANNERS
 150 Airport Drive
 Suite 4
 Westminster, Maryland 21157
 Phone: (410)-857-9030
 or (410)-876-0333
 Fax: (410)-876-1532
www.bprsurveying.com

Date: November 11, 2015 Scale: 1 inch = 50 feet

A licensed Maryland Surveyor either personally prepared the Survey as shown hereon, or was in responsible charge over its preparation and the surveying work reflected in it, in compliance with chapter 09.13.06.12 of the Maryland Minimum Standards of Practice for Land Surveyors.



HOWARD COUNTY HEALTH DEPARTMENT

57484

DATE 12/14/15

Received
From

Therese Howell

PHONE #

410 346-6521

For

Perc App / 92/14584

Triadaphua rd.

☐ CASH

☒ CHECK

NO.

2874

Five hundred six

Dollars

\$

506.00

Received By

J Kemp