

# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_

AP 535202

AGENCY REVIEW: \_\_\_\_\_

DATE 5/12/2011

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 475 S 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) GROVER CRUMBLEY

DAYTIME PHONE \_\_\_\_\_ CELL 443-415-5490 FAX \_\_\_\_\_

MAILING ADDRESS 3907 JUMPERS HILL LANE ELLCOTT CITY MD 21042  
STREET CITY/TOWN STATE ZIP

APPLICANT FISHER, COLLINS & CARTER, INC. TONY FERTITTA

DAYTIME PHONE 410-461-2855 CELL \_\_\_\_\_ FAX 410-750-3784

MAILING ADDRESS 10272 BALTIMORE NATIONAL PIKE ELLCOTT CITY MD 21042  
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION  
SUBDIVISION/PROPERTY NAME FOX DEN FARMS LOT NO. 7

PROPERTY ADDRESS 3907 JUMPERS HILL LANE  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 22 GRID 17 PARCEL(S) 151 PROPOSED LOT SIZE 2.51

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. Tony Fertitta  
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





# HOWARD COUNTY HEALTH DEPARTMENT

35202

5 / 12 / 2011  
DATE

AS-

Received From

Jan G. Crumbley

PHONE # <sup>410-</sup> 461-2455

3907 Jumpers Hill Lane - the - TTC

For Perc App - 3907 Jumpers Hill Lane -

CASH

CHECK

NO. 2027

Five hundred & six \_\_\_\_\_ Dollars

\$ 506 | 00

Received By

RE

**FISHER, COLLINS  
& CARTER, INC.**

**CIVIL ENGINEERING CONSULTANTS  
and LAND SURVEYORS**

Terrell A. Fisher, P.E., L.S.  
Earl D. Collins, P.E.  
Charles J. Crovo, Sr., P.E., L.S.

Paul W. Kriebel, P.E.  
Mark L. Robel, P.L.S.  
Aldo M. Vitucci, P.E.

May 12, 2011

Howard County Health Dept.  
7178 Columbia Gateway Dr.  
Columbia, MD 21046-4544

Attn: Dana

RE: Perc Application Plan  
3907 Jumpers Hill Lane

Dear Dana,

On behalf of our client, we are enclosing the following items for your use to schedule a perc date.

- 1). Two (2) prints entitled "Perc Application Plat – 3907 Jumpers Hill Lane dated April 25, 2011.

Thanks as always for your assistance.

Very truly yours,  
Fisher, Collins & Carter, Inc.



Tony Fertitta

WO #30059

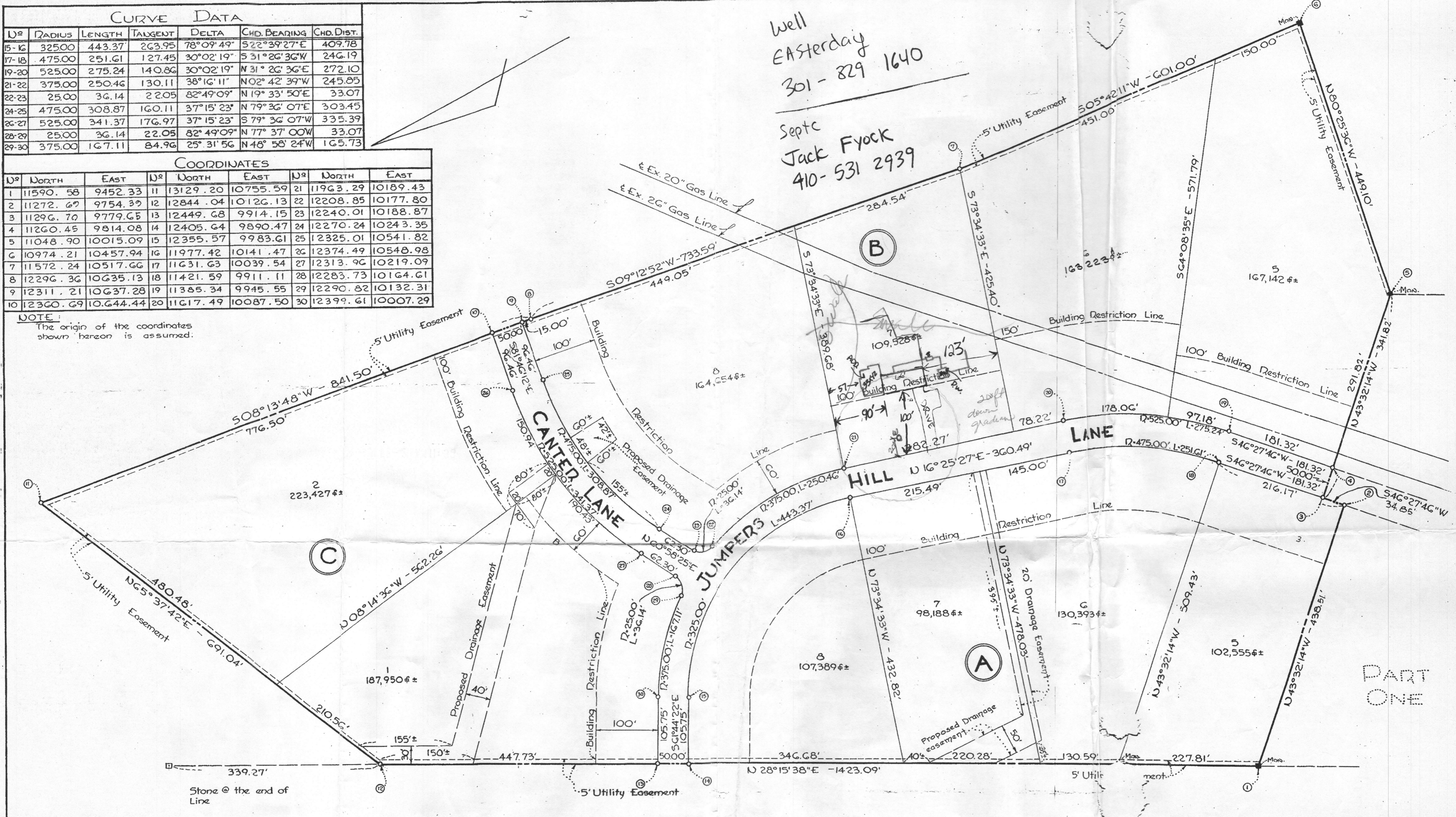
ED WESTON

Well  
Easterday  
301 - 829 1640  
Sept  
Jack Fyock  
410 - 531 2939

CURVE DATA						
U <sup>o</sup>	RADIUS	LENGTH	TANGENT	DELTA	CHD. BEARING	CHD. DIST.
15-16	325.00	443.37	263.95	78°09'49"	S 22°39'27"E	409.78
17-18	475.00	251.61	127.45	30°02'19"	S 31°26'36"W	246.19
19-20	525.00	275.24	140.86	30°02'19"	N 31°26'36"E	272.10
21-22	375.00	250.46	130.11	38°16'11"	N 02°42'39"W	245.85
22-23	25.00	36.14	22.05	82°49'09"	N 19°33'50"E	33.07
24-25	475.00	308.87	160.11	37°15'23"	N 79°36'07"E	303.45
26-27	525.00	341.37	176.97	37°15'23"	S 79°36'07"W	335.39
28-29	25.00	36.14	22.05	82°49'09"	N 77°37'00"W	33.07
29-30	375.00	167.11	84.96	25°31'56"	N 48°58'24"W	165.73

COORDINATES								
U <sup>o</sup>	NORTH	EAST	U <sup>o</sup>	NORTH	EAST	U <sup>o</sup>	NORTH	EAST
1	11590.58	9452.33	11	13129.20	10755.59	21	11963.29	10189.43
2	11272.67	9754.39	12	12844.04	10126.13	22	12208.85	10177.80
3	11296.70	9779.65	13	12449.68	9914.15	23	12240.01	10188.87
4	11260.45	9814.08	14	12405.64	9890.47	24	12270.24	10243.35
5	11048.90	10015.09	15	12355.57	9983.61	25	12325.01	10541.82
6	10974.21	10457.94	16	11977.42	10141.47	26	12374.49	10548.98
7	11572.24	10517.66	17	11631.63	10039.54	27	12313.96	10219.09
8	12296.36	10635.13	18	11421.59	9911.11	28	12283.73	10164.61
9	12311.21	10637.28	19	11385.34	9945.55	29	12290.82	10132.31
10	12360.69	10644.44	20	11617.49	10087.50	30	12399.61	10007.29

NOTE:  
The origin of the coordinates shown hereon is assumed.



The lots shown hereon comply with minimum ownership width and lot area as required by Maryland State Department of Health Regulations.

AREA SHOWN THIS PLAT:  
35.697 ACRES ±

PART TWO  
**FOX DEN FARMS**  
RECORDED PLAT BOOK 10 FOLIO 63  
ON 12/2 1965 AMONG THE LAND RECORDS OF HOWARD COUNTY, MD.  
3RD ELECTION DISTRICT - HOWARD COUNTY, MD.  
23 JUNE 1965  
SCALE: 1"=100'

APPROVED: HOWARD COUNTY HEALTH DEPT  
*Herb Shroyer* Nov 24 1965  
County Health Officer Date

APPROVED: HOWARD COUNTY PLANNING COMM.  
*William M. Danner* 11-23-65  
Chairman Date  
*Thomas A. Harris* 11-1-65  
Director Date

APPROVED: HOWARD COUNTY HIGHWAY DEPT.  
*Bernard S. Hall* 11-23-65  
Roads Engineer Date

APPROVED: HOWARD COUNTY METROPOLITAN COMM.  
*W. O. Falout* 11-23-65  
Chief Engineer Date

**OWNER'S CERTIFICATE**  
We, Fox Den Inc. owners of the property shown and described hereon, adopt this plan of supervision 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 plat by the Planning Commission of Howard County, Maryland, we for ourselves, our heirs or assigns do hereby give and grant unto the Board of County Commissioners, 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 plat among the Land Records of Howard County, Maryland.  
Witness our hands and seals this 18<sup>th</sup> day of Nov. 1965  
*George B. White*  
PRESIDENT, FOX DEN, INC.

**ENGINEER'S CERTIFICATE**  
I, Curt A.H. Jeschke, hereby certify that the plan shown hereon is correct, that it is a subdivision of a part of the land which by deed dated April 22, 1965 and recorded among the Land Records of Howard County in Liber W.H.H. 435 at Folio 704, was granted and conveyed by George B. White and Anne H. White to Fox Den, Inc., and all of the land which by deed dated April 22, 1965, and recorded among the Land Records of Howard County in Liber W.H.H. 435 at Folio 707 was granted and conveyed by Jack M. Davis and Mary E. Davis to Fox Den, Inc., and that stones or monuments marked thus \* are in place as shown.  
I further certify that the requirements of Section 72.B, Article 17 of the Annotated Code of Maryland (as amended) as far as they relate to the making of this plat have been complied with.  
22 June 1965  
Curt A.H. Jeschke  
Curt A.H. Jeschke Reg. No. 2351

**PURDUM & JESCHKE**  
- ENGINEERS -  
24 PARK AVE.  
ELLICOTT CITY, MD.



**FISHER, COLLINS  
& CARTER, INC.**

**CIVIL ENGINEERING CONSULTANTS  
and LAND SURVEYORS**

Terrell A. Fisher, P.E., L.S.  
Earl D. Collins, P.E.  
Charles J. Crovo, Sr., P.E., L.S.

Paul W. Kriebel, P.E.  
Mark L. Robel, P.L.S.  
Aldo M. Vitucci, P.E.

June 22, 2011

Howard County Health Dept.  
7178 Columbia Gateway Dr.  
Columbia, MD 21046-4544

Attn: Dana

RE: Perc Certification Plan  
3907 Jumpers Hill Lane

Dear Dana,

On behalf of our client, we are enclosing the following items for signature.

- 1). Two (2) prints and a Mylar entitled "Perc Certification Plat – 3907 Jumpers Hill Lane dated June 22, 2011.

Thanks as always for your assistance.

Very truly yours,  
Fisher, Collins & Carter, Inc.

  
Tony Fertitta

WO #30059

**FISHER, COLLINS  
& CARTER, INC.**

**CIVIL ENGINEERING CONSULTANTS  
and LAND SURVEYORS**

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Paul W. Kriebel, P.E.  
Mark L. Robel, P.L.S.  
Aldo M. Vitucci, P.E.

June 16, 2011

Howard County Health Dept.  
7178 Columbia Gateway Dr.  
Columbia, MD 21046-4544

Attn: Dana

RE: Perc Certification Plan  
3907 Jumpers Hill Lane

Dear Dana,

On behalf of our client, we are enclosing the following items for signature.

- 1). Two (2) prints and a Maylar entitled "Perc Certification Plat – 3907 Jumpers Hill Lane dated June 16, 2011.

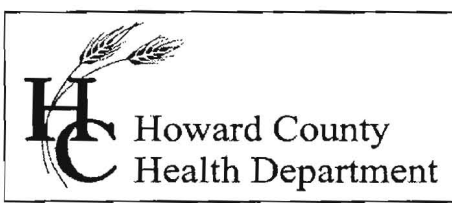
Thanks as always for your assistance.

Very truly yours,  
Fisher, Collins & Carter, Inc.



Tony Fertitta

WO #30059



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](http://www.hchealth.org)  
Peter L. Beilenson, M.D., M.P.H., Health Officer

June 9, 2011

RE: **Percolation Test Results**\*Purpose: To Establish Septic Reserved Area  
Property ID: 3907 Jumpers Hill Lane, Ellicott City, Maryland 21042

TO: Ian G. Crumbly, 3907 Jumpers Hill Lane, Ellicott City, Maryland 21042

Dear Mr. Crumbly

Percolation testing was recently conducted on June 2, 2011 on the above referenced property, in an effort to establish a septic reserve area. A total of 5 test holes were dug in the proposed area. Results for the lot indicated satisfactory soil conditions for onsite wastewater disposal. Acceptable ranges for recommended inlet and trench bottom depth, and usable sidewall are indicated, and may be confirmed at the time of installation. Field data collected is shown on the Percolation Test Worksheet enclosed with this letter.

The next step in this process is to have your engineer/consultant submit a Percolation Certification Plan to confirm the design of the septic reserve area. Review is contingent upon submission of a Percolation Certification Plan showing the following:

- Show three (3) well sites, one existing and two replacements or approximately 1500 square feet of approvable well area for the lot. Wells should be 50 feet apart on lot. Well location and setbacks required are 30 feet from new foundation and 100 feet from septic tank, system and easement. Well tag numbers for existing well must be included.
- Show the exact location of the **existing surrounding structures**, such as wells, septic easements, septic reserve areas, and other septic system components such as septic tanks, dry wells and distribution boxes.
- The septic tank and dry well will have to be abandoned and the septic system must be upgraded to accommodate the new addition. A 2000 gallon tank will be required for the new installation. And this information must be noted on plan.

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*

Dana Bernard, REHS/ RS  
Bureau of Environmental Health  
Well and Septic Program  
Development and Coordination Section  
Phone (410) 313-2775  
E-mail: [DBernard@howardcountymd.gov](mailto:DBernard@howardcountymd.gov)

DLB

Enclosures

cc: Well & Septic Program

Fisher, Collins, and Carter, Inc.,

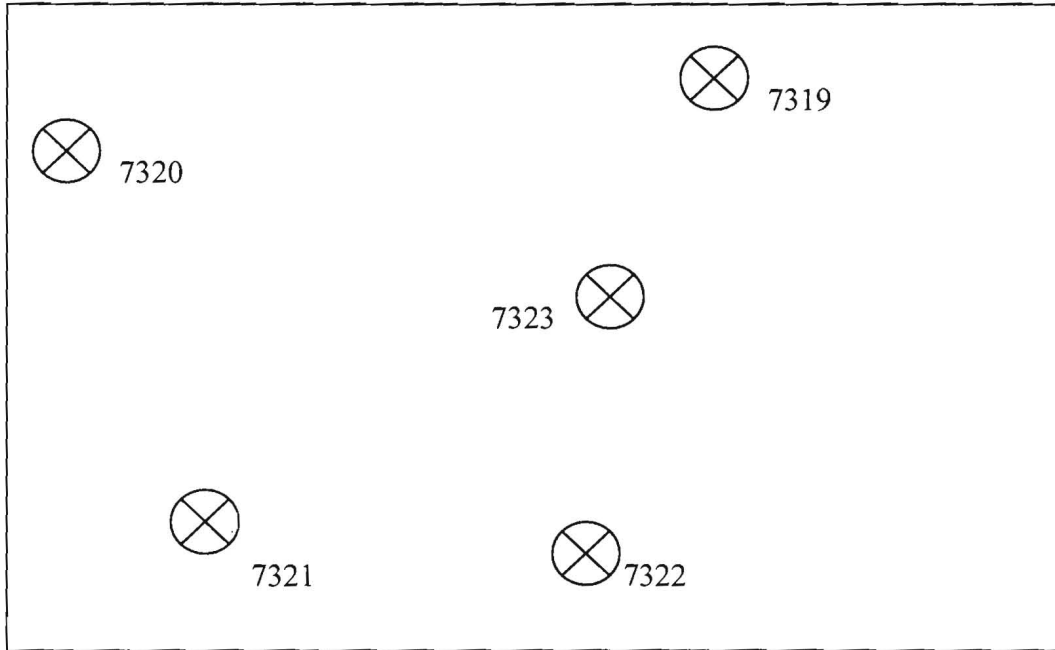
C/o Tony Fertitta. Sent via e-mail to [tonvf@fcc-eng.com](mailto:tonvf@fcc-eng.com)

# /P # A535202 Percolation Information- 3907 Jumpers Hill Road

NOT TO SCALE

# 7319

2sbk , Dk. Gray  
Black SCL  
-----0.5'  
Red-Brown SCL  
-----3'  
Red-Brown SL  
Much Mica  
White pockets of LS@ 8'  
-----8'  
Yell, Red, Brn FSL  
Much Mica  
↓  
-----13'



#7322

2sbk , Brown Dk. Gray SCL  
-----0.5'  
Red-Brown SCL  
Much Mica  
-----3'  
Red-Brown Medium SL  
Much Mica  
-----7'  
White Pockets of LS @7'  
Yell, Red Brown FSL  
-----13.2'

# 7320

2sbk , Dk. Gray SCL  
-----0.5'  
Red-Brown SCL  
-----3'  
Red-Brown SL  
Much Mica  
5-10% of Sm. Stones  
-----6'  
Yell, Red, Brn FSL  
Much Mica  
-----13'

#7323

2sbk , Brown Dk. Gray SCL  
-----0.8'  
Red-Brown Heavy SCL  
Much Mica  
-----3'  
Red-Brown Medium SL  
Much Mica  
-----10'  
White Yellow 10% -20% Sm. Stones  
Loamy Sand  
-----13'

Date	Test	Depth	Start	Break 1" Drop	Break 2" Drop	Time of 2 <sup>nd</sup> Inch	P/F/H
6-2-11	7319	3.5/13	11:12	11:14	11:16	2 min.	Pass
6-2-11	7320	3.5 /13	10:32	10:35	10:39	4 min.	Pass
6-2-11	7321	4/ 13	12:26	12:38	12:43	5 min.	Pass
6-2-11	7322	3.2/ 13.2	11:58	12:01	12:06	5 min.	Pass
6-2-11	7323	3.5/13	11:33	11:35	11:37	2 min.	Pass

# 7321

2sbk , Dk. Brn Grey SCL  
-----0.8'  
Red-Brown SCL  
-----3'  
Red-Brown SL  
Much Mica  
5-10% of Sm. Stones  
-----6'  
Yell, Red, Brn FSL  
Much Mica  
↓  
-----13'

Remarks:  Drywell inlet 3.5 feet

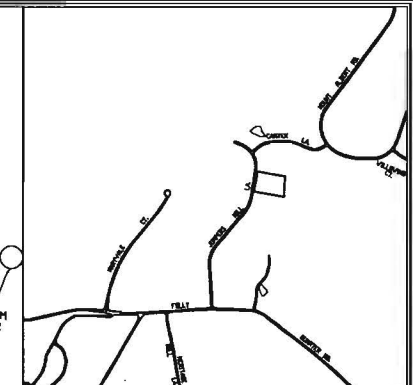
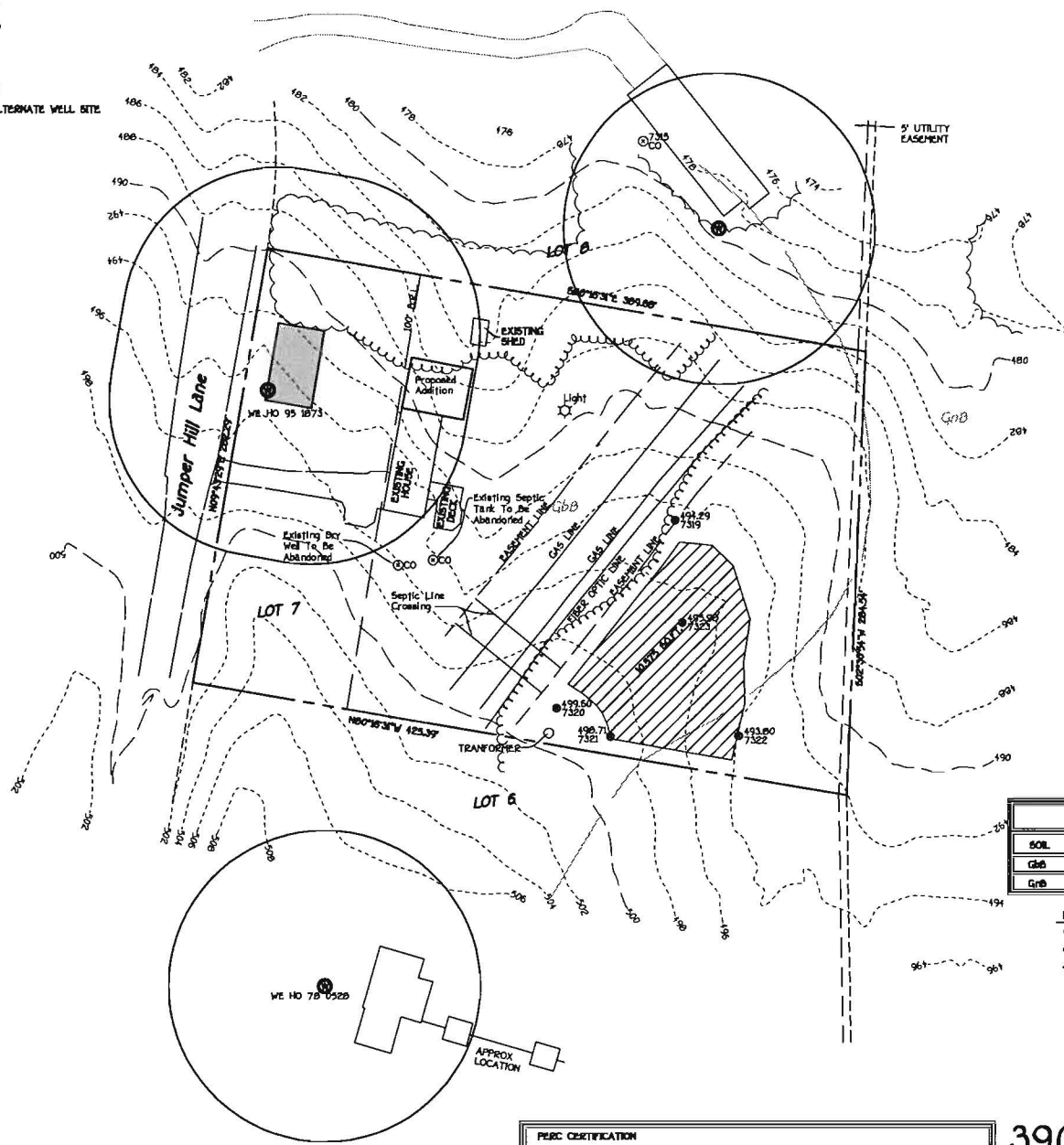
Sanitarian  D.Bernard Backhoe  Ken w/South Carroll Others  HO

Test Holes Used in  5 in SDA  Avg. Perc Time  3min.  SQ.FT/BR  150

Trench Width  Inlet Depth  Max Bot.Depth  Effective S/W

**LEGEND**

- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- EXISTING TREE LINE
- SOIL LINES AND TYPES
- DENOTES PASSED PERC
- DENOTES 2500 Gp/7.1. ALTERNATE WELL SITE



**VICINITY MAP**  
SCALE: 1" = 1200'

**GENERAL NOTES:**

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET 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 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 SEWERAGE EASEMENT. RECONSTRUCTION OF A PROPOSED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
2. ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
3. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
4. EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM ALL REASONABLE EFFORTS.
5. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
6. TOPOGRAPHY SHOWN IS FROM HOWARD COUNTY GIS TOPOGRAPHY AT 5' CONTOUR INTERVAL INTERPOLATED FOR 2' CONTOUR INTERVAL.
7. BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE BENEFIT OF A FIELD SURVEY AT THIS TIME.
8. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
9. PLAT REFERENCE PLAT BOOK 10, FOLIO 63.
10. THE SEPTIC TANK AND DRY WELL WILL HAVE TO BE ABANDONED AND THE SEPTIC SYSTEM MUST BE UPGRADED TO ACCOMMODATE THE NEW ADDITION. A 2500 GALLON TANK WILL BE REQUIRED FOR THE NEW INSTALLATION.
11. THE EXISTING COLUMBIA GAS TRANSMISSION LLC GAS EASEMENT, AND GAS MAINS WERE PLACED BY COLUMBIA GAS TRANSMISSION LLC AND FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. ON MAY 3, 2011.
12. THE EXISTING FIBER OPTIC LINE WAS FLAGGED BY SIBERA NETWORKS AND FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. ON MAY 3, 2011.

**SOILS LEGEND**

SOIL	NAME	CLASS
GdB	Gladstone loam, 3 to 8 percent slopes	B
GrB	Glenville-Belle silt loam, 0 to 8 percent slopes	C

- NOTES:**
- Hydric soils and/or contains hydric inclusions
  - Hydric contains hydric inclusions
  - † Generally only within 100-year floodplain areas

**PERC CERTIFICATION PLAT**  
**3907 JUMPERS HILL LANE**

TAX MAP #22  
3RD ELECTION DISTRICT  
SCALE: 1"=50'

PARCEL# 151  
HOWARD COUNTY, MARYLAND  
DATE: JUNE 22, 2011

**PERC CERTIFICATION**

I certify that the locations shown hereon are based on field locations done under my direct supervision and are correct to the best of my professional knowledge and belief.

Signature of Professional Land Surveyor: Terrell A. Fisher, Professional Land Surveyor No. 10692 EXPIRES 12/13/11  
Date: \_\_\_\_\_

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER: \_\_\_\_\_ DATE: \_\_\_\_\_

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERS CONSULTANTS & LAND SURVEYORS  
CENTRAL MARIETTA OFFICE: 1872 BALTIMORE NATIONAL PIKE  
ALEXANDRIA CITY, MARYLAND 22304  
410-461-1200

K:\2500\3907\3907.dwg 3/26/11 10:51 AM 1/14/11 3:14:32 PM

Writers Direct Number  
540-347-3162

June 28, 2011

Fisher, Collins & Carter Inc.  
Tony Ferititta

Subject: Percolation Certification Plan at 3907 Jumpers Hill Lane

Affected Pipeline:MA/MB

Dear Mr. Ferititta

The plans you provided on June 22, 2010 regarding the above project, have been reviewed. Columbia consents to the proposed plans conditioned on the following requirements:

1. The enclosed Columbia "Minimum Guidelines for Construction near Natural Gas Pipeline Facilities" must be followed during construction.
2. Any other heavy construction equipment type and weights must be identified prior to construction so that Columbia can analyze their affect on the safe operating stress level of the pipeline.
3. All utilities are installed below Columbia's pipeline with a minimum clearance of 2 feet.
4. The Septic field is designed to drain away from Columbia's easement. If it must drain in the direction of the easement then drain tiles should be connected to the Septic field and cross over the entire easement in order to assure that it will not drain into the easement.
5. The drain field should be set back as far as possible from the easement boundary line, perhaps 10 feet or more if possible.

A Columbia representative must be on site during all digging and construction within Columbia's easement. Contact Jack Waters, Operations inspector 410-533-5336 to schedule a field representative. In addition you must contact Miss Utility 48 hours in advance of any digging activity at 811. Your request will be forwarded to the local field office with a copy of this correspondence.

**Columbia reserves the right to require additional submission, review and possible revision of plans associated with this project, if this project is not completed within twelve (12) months. Consent will be reissued, if warranted, after reassessment has been completed /or waived by Columbia.**

Sincerely,  
Antonio C. Redd  
Land Agent

Attached: Minimum Guidelines

**NiSource Gas Transmission and Storage**  
**Minimum Guidelines for construction near natural gas pipeline facilities**

This document provides guidelines for acceptable land uses near facilities owned by Columbia Gas Transmission, LLC, Columbia Gulf Transmission Company, Crossroads Pipeline Company, and all other pipeline facilities operated and maintained by any of the aforementioned companies, collectively known as NiSource Gas Transmission and Storage (NGTS.)

Interstate natural gas pipelines are an important part of the nation's energy infrastructure. Pipelines and related facilities operated by NGTS safely transport much of the clean-burning fuel used in homes, businesses and factories of the United States.

These guidelines are intended to protect public safety and help ensure the continuous safe flow of the nation's natural gas supplies. They provide a basic overview of NGTS's requirements. NGTS also has a technical document, entitled "Right-of-Way Use Specifications," which contains more detailed information on many of the topics discussed here. Section references for the Right-of-Way Use Specifications document are listed after various sections of this brochure. You may request a copy of the Right-of-Way Use Specifications document by contacting NGTS at the phone number listed on the back of this brochure.

**Consult NGTS early in your plans**

To expedite construction or excavation projects safely and without delay, property owners and developers planning any such activities in the vicinity of NGTS pipelines should consult with NGTS in the design phase of the project. Have your construction plans reviewed by company personnel before you apply for zoning permits or commit to construction schedules.

For more information, call NGTS at 1-304-357-3625.

***Note:** These guidelines supersede any and all prior guidelines pertaining to activities and placements on or near gas transmission facilities owned by an NGTS company. Existence of, or the ramifications from, the implementation of prior guidelines will not dictate, direct or provide for exemption of any of the above guidelines.*

*May 2009*

### **Notify NGTS before construction begins**

Before any preliminary field work or construction begins in the vicinity of NGTS's pipeline facilities, the exact location and elevation of the pipeline must be determined. To coordinate this procedure, dial the national "Call Before You Dig" number (811) or call your state's specific One Call Phone Number. Request that both location and depth of the pipeline be determined.

No construction or excavation activities of any kind, including blasting, shall be done on NGTS's right-of-way area before NGTS personnel have established the actual location of all affected facilities and the limits of the right-of-way. **NGTS personnel must be present during any construction or excavation activities on or around its facilities or rights-of-way, unless otherwise permitted by NGTS. Excavation within 3 feet of NGTS facilities is strictly forbidden without an NGTS representative on site.**

### **Excavation near pipelines/buried facilities**

No excavation (including hand digging) shall be made on the pipeline right-of-way without prior notification to NGTS through "Call Before You Dig (811)" or the state One-Call notification service. Subsequent follow-up must be made to NGTS to seek approval for the proposed construction. Within 36 inches of the outer edge of the pipe (on all sides) only hand excavation, air cutting, and vacuum excavation are permitted. (Right-of-Way Use Specifications, Section 3.2.)

### **Crossing pipelines with heavy equipment**

NGTS may require heavy equipment operators to install mats, dirt pads, or other approved protective materials to adequately protect NGTS pipelines from potential damage by heavy equipment crossing the right-of-way. All proposed road crossings of buried facilities must be evaluated by NGTS personnel. Any additional over-burden must be removed after construction unless otherwise directed by NGTS personnel. (Right-of-Way Use Specifications, Section 3.7.)

### **Blasting plans must be approved**

Any blasting proposed within 300 feet of NGTS facilities must be submitted to NGTS in advance along with a blasting plan outlining such proposed activity. No blasting may begin unless and until NGTS provides written confirmation that it does not object to such blasting. Any modifications to the blasting plan must also be submitted to NGTS for review and should not be implemented unless and until NGTS provides written confirmation that it does not object to such modifications. The blasting contractor may be required to monitor and record seismic shock at the facilities. (Right-of-Way Use Specifications, Section 3.10)

### **Allow adequate clearance for directional drilling**

Any directional drilling or boring proposed under NGTS's buried facilities must be submitted to NGTS for review and approval. A minimum of 24" of vertical clearance must be maintained from NGTS's facilities and additional excavations may be required to ensure adequate clearance. As-built plans are required for all borings. (Right-of-Way Use Specifications, Section 3.6.)

### **Maintain up to 300-foot clear area around storage well heads**

Property owners or developers must notify NGTS of any proposed construction or excavation within 300 feet in any direction of a natural gas storage well. For safety, NGTS reserves the right to object to any such proposed activities or placement of objects closer than 300 feet to a storage wellhead. (Right-of-Way Use Specifications, Section 4.1.)

## Construction requirements within a right-of-way

NGTS may allow certain property improvements in its rights-of-way. However, NGTS will not assume responsibility, financial or otherwise, for any such improvements directly or indirectly damaged as a result of its operation and maintenance of its facilities. The requirements listed below are minimum guidelines for construction in the vicinity of NGTS pipeline rights-of-way to protect public safety and the integrity of NGTS's facilities. Upon review of individual plans and property rights, NGTS may identify additional restrictions or requirements.

1. The existing cover over pipelines and rights-of-way shall not be modified without NGTS's written permission. The minimum earth cover over pipelines shall be 36-inches; NGTS will perform external load evaluations as necessary to determine if additional protective measures are required. (Right-of-Way Use Specifications, Sections 3.3 and 3.5.1)
2. Above-ground or below-ground structures or obstructions of any type shall not be placed within the easement area of any pipeline, (Right-of-Way Use Specifications, Section 3.4.1.)
3. Pipeline easements shall not be shared longitudinally with other pipelines or utilities. All water valves, curb boxes, manholes, etc. must be outside the easement. All crossings must be approved by NGTS before installation begins and must meet the following criteria (Right-of-Way Use Specifications, Section 3.6):
  - Cross as near 90 degrees as possible, but in no case less than a 45 degree angle.
  - Minimum of 24-inches vertical clearance.
  - Must cross below NGTS's pipeline, unless prior written consent is granted by NGTS.
  - Cable/wire crossings (excluding single telephone and single television drops) must be encased with a minimum of 2-inch Schedule 40 PVC pipe. Additionally, electric and fiber optic lines must be encased in a 6-inch envelope of colored 2,000 psi concrete (red for electric, orange for fiber) or 4-inch minimum diameter, standard wall thickness, coated steel pipe across the entire width of the right-of-way. **Note:** All cables/wires permitted to cross above NGTS's pipeline (excluding single telephone and single television drops) must be encased in Schedule 40 PVC and coated steel pipes, as outlined above – no concrete shall be used.
  - All crossings shall be marked with above ground markers installed on either side of NGTS right-of-way boundaries.
  - Metallic warning flags shall also be buried above all cable, wire utility, or fiber optic lines crossing an NGTS right-of-way.
4. Roads shall cross pipelines at or as near 90 degrees as practical, but at angles not less than 45 degrees. The entity constructing the road must pay for any measures required by NGTS to inspect and protect its pipeline(s). Such protective measures shall be designed and/or approved by NGTS personnel. (Right-of-Way Use Specifications, Section 3.5.)
5. Walking/bicycling paths require NGTS's written permission prior to construction. Paths must be constructed at the outside edge of NGTS's right-of-way, and may extend no more than 6 feet into the right-of-way. Paths shall cross NGTS pipeline as close to 90 degrees as possible, but in no case less than 45 degrees. NGTS shall have sole determination of number of path crossings to be permitted. No motorized vehicles of any type, other than power driven wheelchairs, are permitted to utilize paths which run longitudinally inside the right-of-way. Landowner shall be responsible for maintaining the

path to prevent right-of-way damage (including erosion, illegal dumping, etc.) (Right-of-Way Use Specifications, Section 3.5.4.)

6. Parking lots require written permission and shall not be allowed over the easement unless the lot can be designed / altered so as not to impact the safe and reliable operation and maintenance of NGTS's pipeline. In no case shall lots be designed such that vehicles will be parking directly over or within 5 feet of a pipeline. Paving for parking lots shall be limited to asphalt only and must meet all requirements set forth in Right-of-Way Use Specifications, Section 3.5.
7. All plans for pavement within an NGTS right-of-way must be submitted and approved by NGTS personnel before paving can begin. Concrete paving is permitted for sidewalks, curbs, and residential driveways. However, continuously poured, steel reinforced concrete is prohibited within NGTS's right-of-way. All residential concrete driveways must meet the requirements set forth in the Right-of-Way Use Specifications attachment entitled "Residential Concrete driveway within NGTS Right-of-Way." (Right-of-Way Use Specifications, Section 3.5)
8. Detention ponds, lakes, or any other type of water impoundment is prohibited within the right-of-way. Septic tanks and leach fields should be placed so they drain away from the pipeline where practical. In no case shall they be placed in the easement area.
9. The right-of-way may be planted in lawn, flowerbeds, or vegetable gardens, or used for normal agricultural purposes. Shrubs maturing at less than 5 feet tall are permitted in the right-of-way. However, they must be planted such that the branches at maturity are a minimum of 5 feet away from the pipeline. Shrubs greater than 5 feet tall and trees, including fruit or nut bearing trees of any kind and "Christmas Tree farms," are prohibited within the right-of-way. *NGTS is not responsible for replacement of or reimbursement for any plantings within the right-of-way, unless the applicable land rights document states otherwise.*
10. Fences or continuous hedges that block visual inspection or interfere with access to NGTS's facilities are prohibited within NGTS rights-of-way. Fences permitted by NGTS to cross its rights-of-way must be designed to allow at least a 16-foot opening centered on the pipelines and must cross at or near to 90 degrees. Gates are permissible, as long as they allow for at least a 16-foot opening. If gates are to be locked, NGTS must be allowed to install its own locks on the gates. Locks will be installed in such a manner as to allow both the landowner and NGTS unimpeded access to the property. Fences or continuous hedges may not run longitudinally inside the right-of-way area. (Right-of-Way Use Specifications, Section 3.4.)

## National "Call Before You Dig" Service – dial "811"

### State One-Call Notification Services

Delaware, Maryland:	1-800-257-7777
Kentucky:	1-800-752-6007
New Jersey:	1-800-272-1000
New York:	1-800-962-7962
North Carolina:	1-800-632-4949
Ohio:	1-800-362-2764
Pennsylvania:	1-800-242-1776
Virginia:	1-800-552-7001
West Virginia:	1-800-245-4848

**For more information, contact NGTS at 1-304-357-3625  
or email [pipelinelandowners@nisource.com](mailto:pipelinelandowners@nisource.com)**

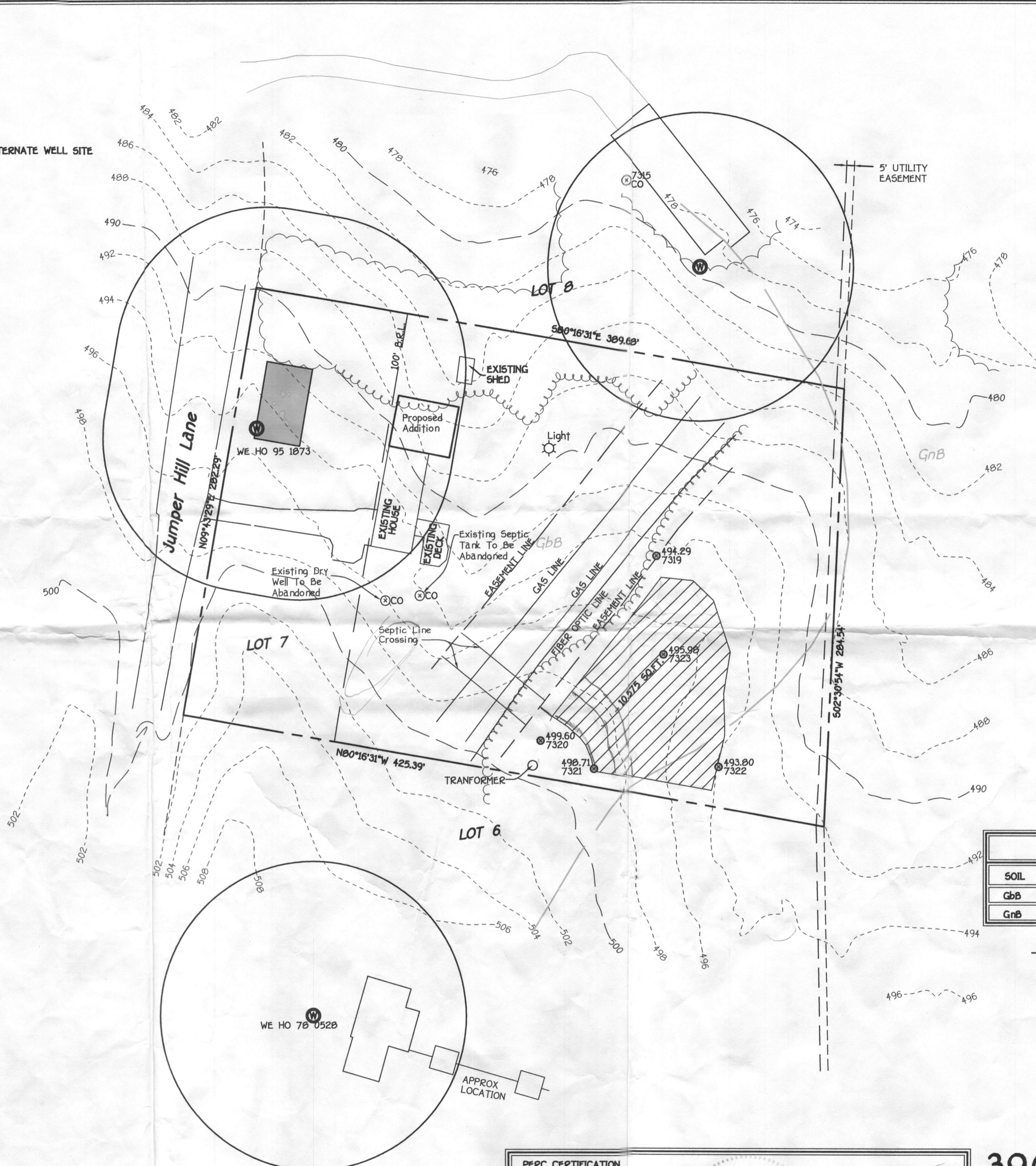
#### NOTE:

*"Minimum Guidelines for construction near natural gas pipeline facilities"* addresses the most common issues concerning land use on/near NGTS rights-of-way. Right-of-Way Use Specifications provides additional technical information as well as guidance on various areas not covered here, and should be consulted as needed. In rare cases, NGTS may determine that adherence to a specific provision of the Minimum Guidelines/Right-of-Way Use Specifications is not feasible for a particular project. In such instances, NGTS may, at its sole discretion, elect to modify specific requirements for that project. Said modifications shall be made by appropriate NGTS personnel and shall be properly documented.

In the event that the provisions of an applicable land rights document conflict with the requirements set forth herein, the land rights document shall supersede these requirements.

**LEGEND**

- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- EXISTING TREE LINE
- GLB2  
MLC2 SOIL LINES AND TYPES
- DENOTES PASSED PERC
- DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE



**VICINITY MAP**

SCALE : 1" = 1200'

**GENERAL NOTES:**

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET 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 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 SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
2. ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
3. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
4. EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM ALL REASONABLE EFFORTS.
5. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
6. TOPOGRAPHY SHOWN IS FROM HOWARD COUNTY GIS TOPOGRAPHY AT 5' CONTOUR INTERVAL INTERPOLATED FOR 2' CONTOUR INTERVAL.
7. BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE THE BENEFIT OF A FIELD SURVEY AT THIS TIME.
8. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
9. PLAT REFERENCE PLAT BOOK 10, FOLIO 63.
10. THE SEPTIC TANK AND DRY WELL WILL HAVE TO BE ABANDONED AND THE SEPTIC SYSTEM MUST BE UPGRADED TO ACCOMMODATE THE NEW ADDITION. A 2000 GALLON TANK WILL BE REQUIRED FOR THE NEW INSTALLATION.
11. THE EXISTING COLUMBIA GAS TRANSMISSION LLC. GAS EASEMENT, AND GAS MAINS WERE WAS FLAGGED BY COLUMBIA GAS TRANSMISSION LLC. AND FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. ON MAY 3, 2011
12. THE EXISTING FIBER OPTIC LINE WAS FLAGGED BY SIDERA NETWORKS AND FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. ON MAY 3, 2011

**SOILS LEGEND**

SOIL	NAME	CLASS
GbB	Gladstone loam, 3 to 8 percent slopes	B
GnB	Glenville-Baile silt loams, 0 to 8 percent slopes	C

**NOTES:**

- \* Hydric soils and/or contains hydric inclusions
- \*\* May contain hydric inclusions
- † Generally only within 100-year floodplain areas

**PERC CERTIFICATION**  
 I certify that the locations shown hereon are based on field locations done under my direct supervision and are correct to the best of my professional knowledge and belief.  
 Signature of Professional Land Surveyor: *Terrell A. Fisher*  
 Terrell A. Fisher, Professional Land Surveyor No. 10692 EXPIRES 12/13/11  
 Date: 6/22/11

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,  
 HOWARD COUNTY HEALTH DEPARTMENT.  
 COUNTY HEALTH OFFICER: *[Signature]*  
 DATE: 6/30/11

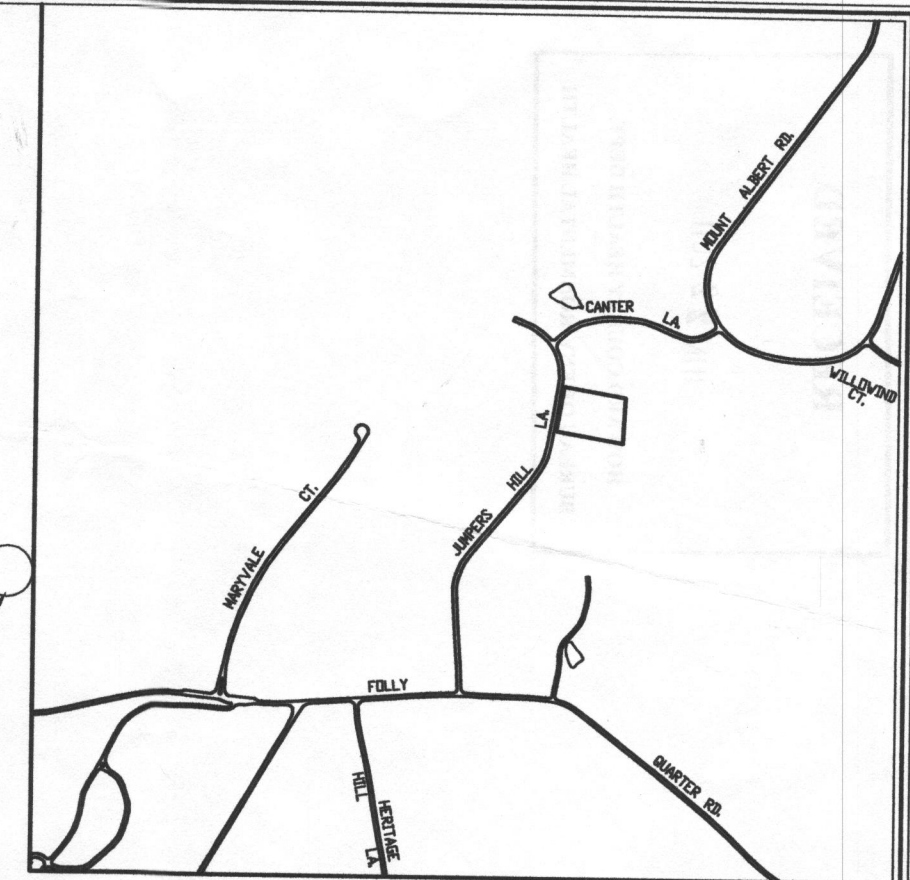
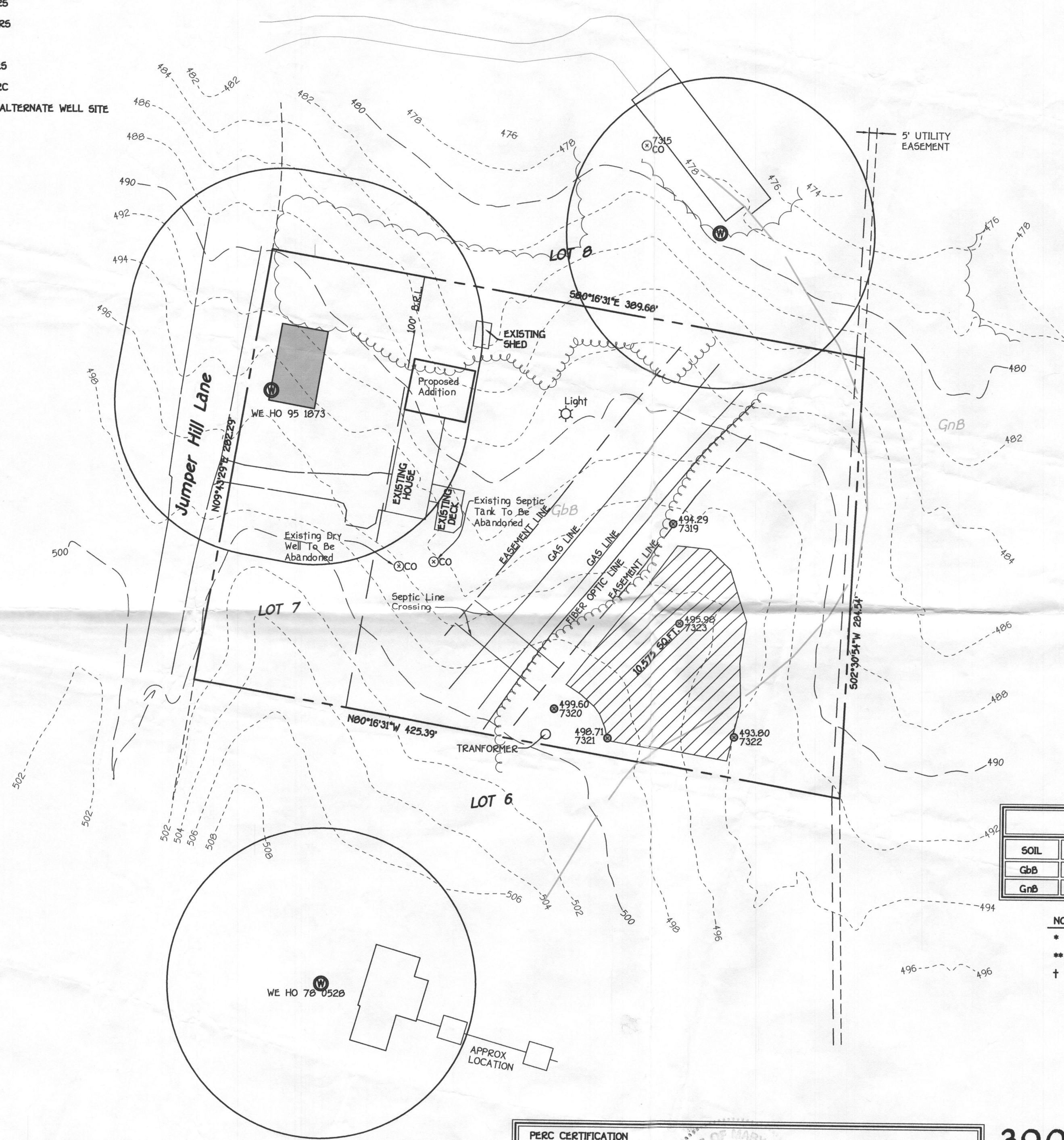
**PERC CERTIFICATION PLAT**  
**3907 JUMPERS HILL LANE**

TAX MAP #22  
 3RD ELECTION DISTRICT  
 SCALE: 1"=50'  
 PARCEL: 151  
 HOWARD COUNTY, MARYLAND  
 DATE: JUNE 22, 2011

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 481 - 2955

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Signature of Professional Land Surveyor: *Terrell A. Fisher* Date: 6/22/11

Terrell A. Fisher, Professional Land Surveyor No. 10692 EXPIRES 12/13/11

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT.

Signature of County Health Officer: *Michael J. ...* DATE: 6/20/11

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
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**PERC CERTIFICATION PLAT**  
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