

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 530201

AGENCY REVIEW: _____

DATE 10/31/03

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 _____ 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) MR. & MRS. KEVIN MCCANN

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS 13744 LAKESIDE DR CLARKSVILLE, MD 21029-1345
STREET CITY/TOWN STATE ZIP

APPLICANT DYNATEMP, INC - CHIP HACKSHAW

DAYTIME PHONE 301-625-6500 CELL _____ FAX 301-625-5915

MAILING ADDRESS 12059 TECH ROAD SILVER SPRING, MD 20904
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME BRIGHTON PINES LOT NO. 8

PROPERTY ADDRESS 13744 LAKESIDE DR CLARKSVILLE
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 34 GRID 7 PARCEL(S) 396 PROPOSED LOT SIZE 3.93 ac

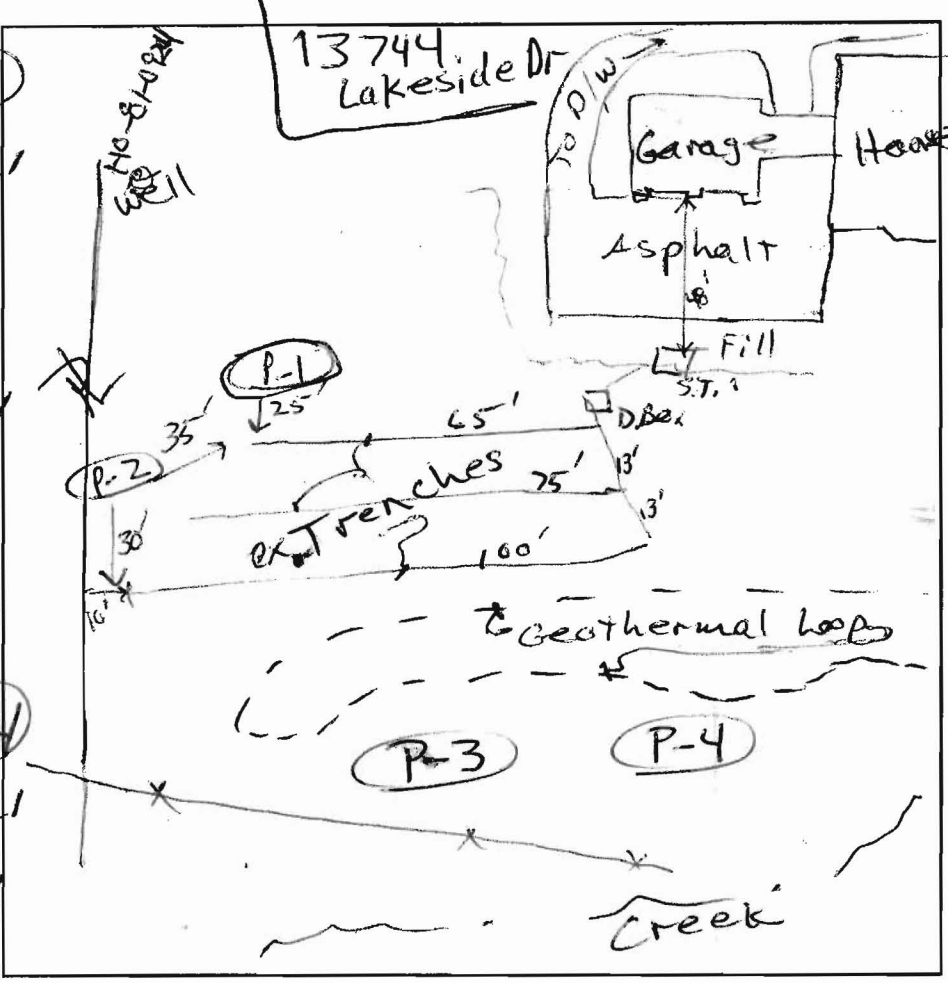
AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A.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

TEST RESULTS WILL BE MAILED TO APPLICANT. Chip Hackshaw
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
3525-H ELLICOTT MILLS DRIVE, ELLICOTT CITY, MARYLAND 21043-4544 (410) 313-1771 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

~~3002~~ P-1
 dk brn sl 0.5'
 yel-red scl 2msbk 2.5'
 H. brn sl 16pl 4.5'
 brn sl & ls wavy mica 13'

P-3 & P-4
 dk brn sl 0.5'
 yel-red scl 2.5'
 yel brn & blk sl dense (heavy) very bouldery 4.5'



P-4
 see P-3

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
11/26/08	P-1 P-1	5' / 13'	0	2	6	4	P
11/26/08	P-3	2.5	—	>50% rock	Retical at		F
11/26/08	P-4	2.5	—	>50% rock	4.5 feet		F

REMARKS Did not dig P-2 (#3002)
 SANITARIAN RB/SH BACKHOE Donnie OTHERS Manuel
 TEST HOLES USED IN SDA P-1 AVG. PERC TIME < 25 min SQ. FT/BR 125
 TRENCH WIDTH 2 or 3 INLET DEPTH 2.5 MAX. BOT DEPTH 8 to 9 EFFECTIVE S/W from 2.5 to 9'



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer

December 2, 2008

To: Mr. and Mrs. Kevin McCann, owners

From: Robert Bricker, RS, CPSS
Development Coordination Section
Well & Septic Program

RS

RE: PERCOLATION TEST RESULTS, 13744 Lakeside Drive, A530221

Percolation testing was conducted on the referenced property on November 26, 2008. The percolation test conducted was a standard test, 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. Soils' conditions satisfactory for onsite wastewater disposal were observed at the specified test location. The area that is proposed to be added to the existing septic easement is suitable.

A test hole (P-1) was dug at the staked location representing an area to be added upslope of the existing septic easement. This soil profile is considered suitable for wastewater disposal. The subsoil ranges from a sandy loam with weak platy structure to a micaceous loamy sand saprolite. The moderately rapid percolation rate is similar to the rates of the tests conducted February 9, 1984. A repair system large enough to accommodate a 5-bedroom house can be installed from the P-1 location to the existing system.

It appears that the area proposed as septic easement along the south property line will accommodate a repair drainfield for the existing residence. The repair area is located downslope of the existing trenches and south of the geothermal loop. This area is represented by test location #3 (February 9, 1984).

Location P-2 was not dug as its location represents the same area as original percolation test #2 (February 9, 1984). There is topographic evidence that staked location P-2 is near two of the three existing drainfield trenches. (Please note that the existing trenches appear to be primarily in the area currently proposed to be added to the existing septic easement.).

A small area of the original septic easement is downslope and east of the horizontal geothermal loop. This area is very limited in size and an attempt was made to expand it. Locations P-3 and P-4 were attempted. Both of these locations failed due to the shallow depth to bedrock (approx. 2.5 feet). These two locations are slightly downslope

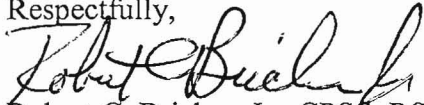
of the 1078 square feet identified as part of the existing septic easement that will remain. Therefore, the 1078 sq.ft.-area is not necessarily unproven and may remain in the septic easement as it was originally justified by test location #4 (February 9, 1984).

Test locations P-1, P-3 and P-4 must be surveyed. Also, the installed geothermal loop must be surveyed in the vicinity of the existing and proposed septic easement. These locations must be accurately presented on the Percolation Certification Plan currently being prepared. I believe the geothermal loop may be located by the metallicized tape that overlies the conduits lining each wall of the geothermal system's trench.

Field data collected are shown on the Percolation Test Worksheet enclosed with this letter. Recommended Inlet and Trench Bottom depths, and Usable Sidewall all are based on observed soil properties and characteristics at respective test locations as well as the particular soils materials tested. When the Percolation Certification Plan is approved, the values for the drainfield parameters will be established and maintained in the Health Department file for the subject property.

Additional field review may be conducted at any time during this process. If you have any questions regarding this evaluation or requirements for the Percolation Certification Plan, please contact me at the above address or by calling (410) 313-2691.

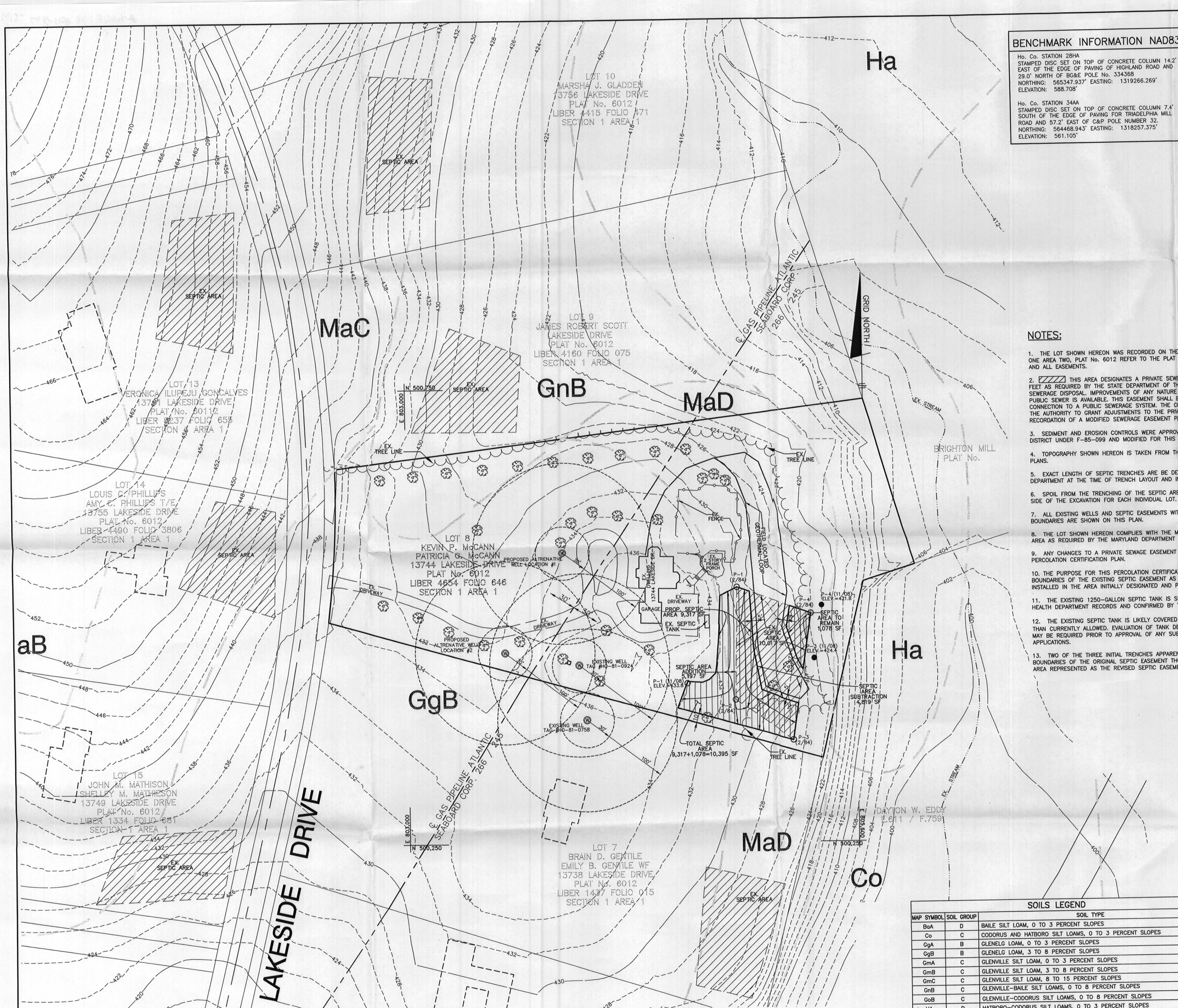
Respectfully,



Robert C. Bricker, Jr., CPSS, RS
Well and Septic Program
Development Coordination Section

Enclosure

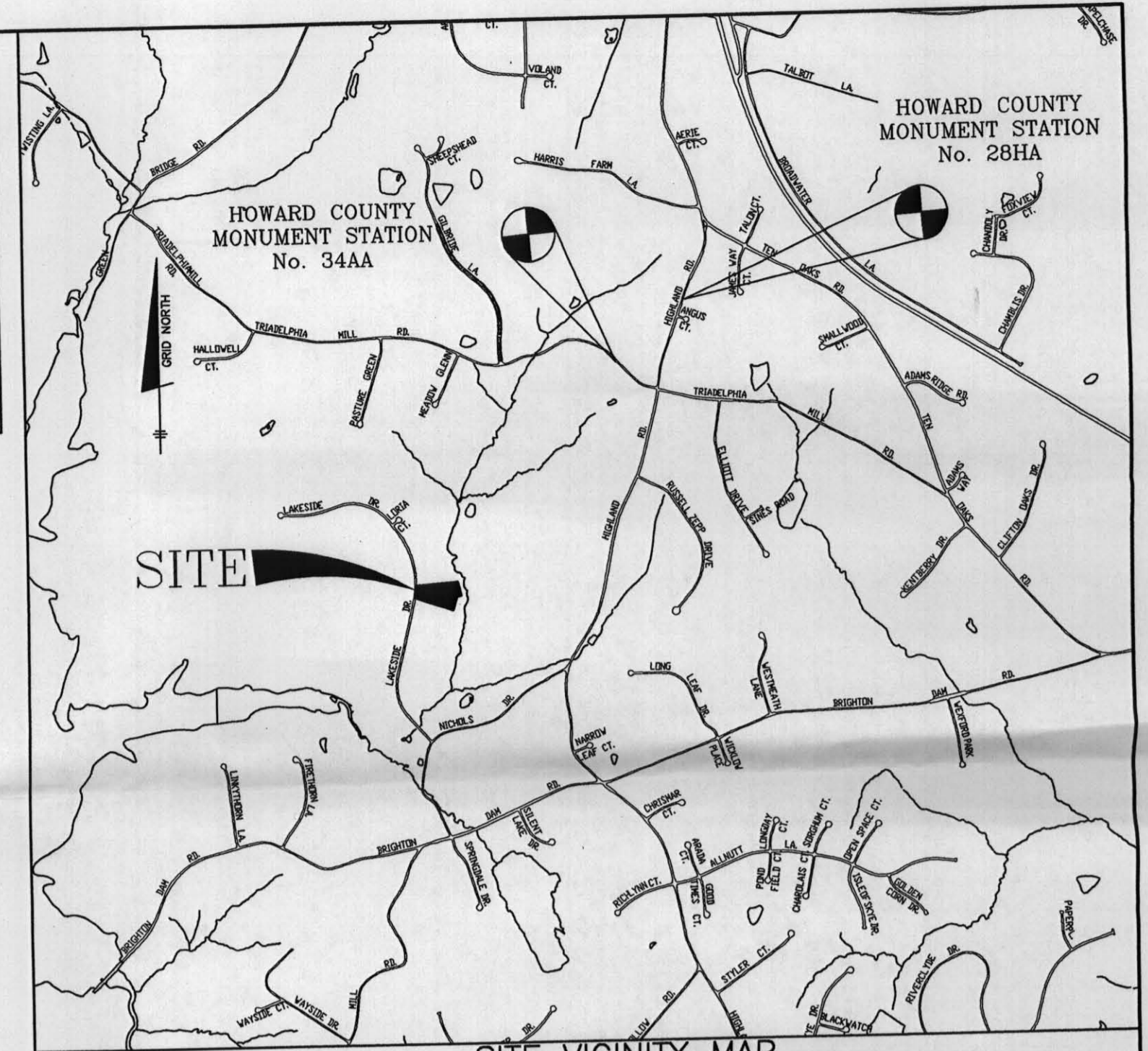
Copy: Chip Hackshaw, DynaTemp, Inc.
John Carney, Benchmark Engineering, Inc.
File



BENCHMARK INFORMATION NAD83

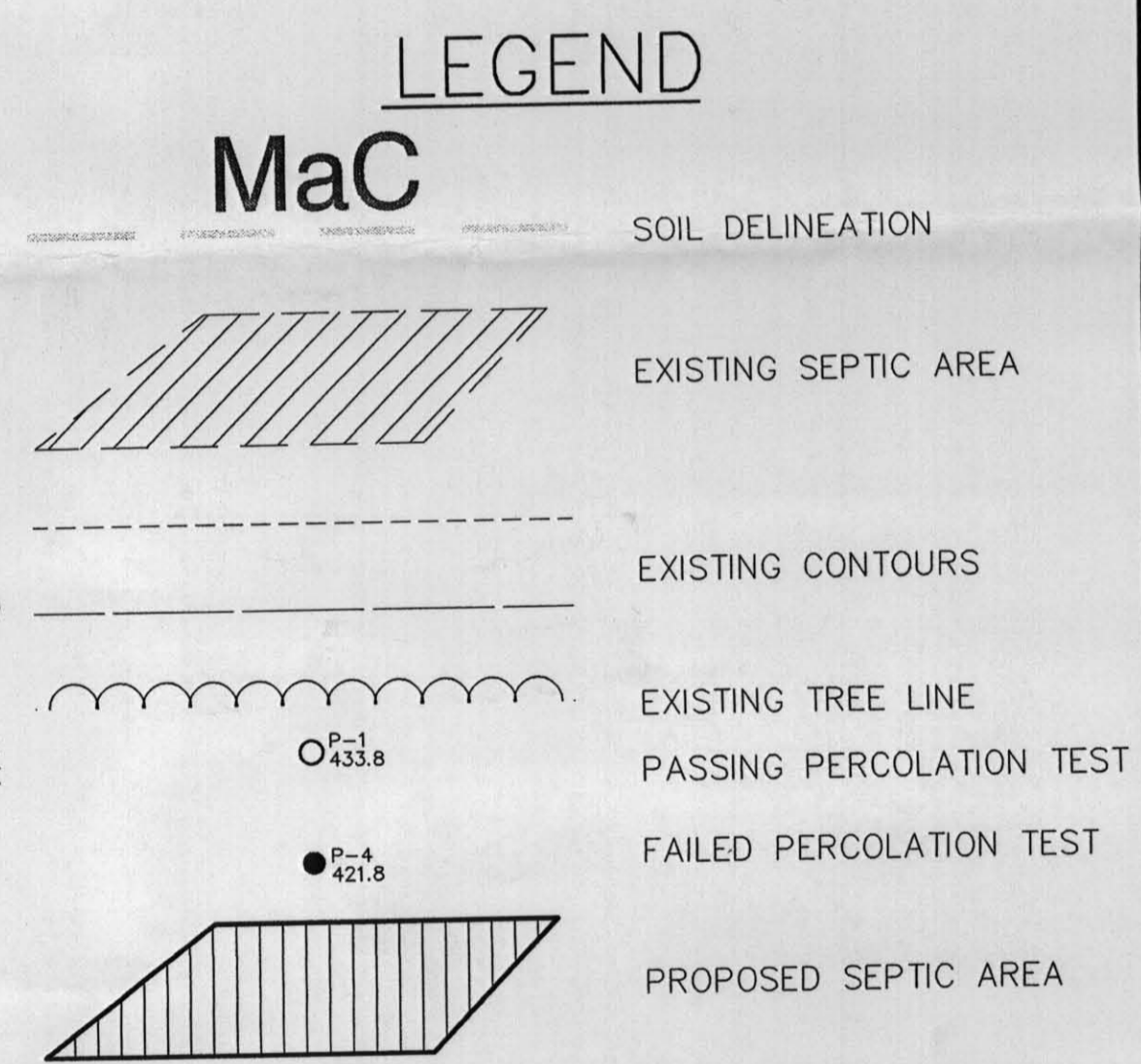
Ho. Co. STATION 28HA
STAMPED DISC SET ON TOP OF CONCRETE COLUMN 14.2' EAST OF THE EDGE OF PAVING OF HIGHLAND ROAD AND 23.0' NORTH OF BOB&E POLE No. 334368
NORTHING: 565347.937' EASTING: 1319266.269'
ELEVATION: 588.708'

Ho. Co. STATION 34AA
STAMPED DISC SET ON TOP OF CONCRETE COLUMN 7.4' SOUTH OF THE EDGE OF PAVING FOR TRIADELPHIA MILL ROAD AND 57.2' EAST OF C&P POLE NUMBER 32
NORTHING: 564468.943' EASTING: 1318257.375'
ELEVATION: 561.105'



- NOTES:**
- THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR BRIGHTON PINES SECTION ONE AREA TWO, PLAT No. 6012 REFER TO THE PLAT FOR LOT DIMENSIONS, LOT AREAS AND ALL EASEMENTS.
 - THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT 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 PLAT SHALL NOT BE NECESSARY.
 - SEDIMENT AND EROSION CONTROLS WERE APPROVED BY HOWARD SOIL CONSERVATION DISTRICT UNDER F-85-099 AND MODIFIED FOR THIS SPECIFIC HOUSE.
 - TOPOGRAPHY SHOWN HEREON IS TAKEN FROM THE APPROVED ROAD CONSTRUCTION PLANS.
 - EXACT LENGTH OF SEPTIC TRENCHES ARE TO BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
 - SPOIL FROM THE TRENCHING OF THE SEPTIC AREA IS TO BE PLACED ON THE UPHILL SIDE OF THE EXCAVATION FOR EACH INDIVIDUAL LOT.
 - ALL EXISTING WELLS AND SEPTIC EASEMENTS WITHIN 100 FEET OF SUBJECT PROPERTY BOUNDARIES ARE SHOWN ON THIS PLAN.
 - THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT.
 - ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 - THE PURPOSE FOR THIS PERCOLATION CERTIFICATION PLAN IS TO ADJUST THE BOUNDARIES OF THE EXISTING SEPTIC EASEMENT AS A GEOTHERMAL LOOP HAS BEEN INSTALLED IN THE AREA INITIALLY DESIGNATED AND PLATTED AS THE SEPTIC EASEMENT.
 - THE EXISTING 1250-GALLON SEPTIC TANK IS SHOWN IN THE LOCATION INDICATED BY HEALTH DEPARTMENT RECORDS AND CONFIRMED BY THE PROPERTY OWNER.
 - THE EXISTING SEPTIC TANK IS LIKELY COVERED BY GREATER DEPTH OF SOIL (>3 FT) THAN CURRENTLY ALLOWED. EVALUATION OF TANK DEPTH AND REPLACEMENT/RELOCATION MAY BE REQUIRED PRIOR TO APPROVAL OF ANY SUBSEQUENT BUILDING PERMIT APPLICATIONS.
 - TWO OF THE THREE INITIAL TRENCHES APPARENTLY WERE NOT INSTALLED WITHIN THE BOUNDARIES OF THE ORIGINAL SEPTIC EASEMENT THOUGH THEY WILL BE INCLUDED IN THE AREA REPRESENTED AS THE REVISED SEPTIC EASEMENT ON THIS PLAN.

SITE VICINITY MAP
SCALE: 1" = 2000'
ADC MAP 13 GRID J8



NO.	DATE	REVISION
BENCHMARK ENGINEERS • LAND SURVEYORS • PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE • SUITE 418 • ELLICOTT CITY, MARYLAND 21043 PHONE: 410-465-6105 FAX: 410-465-6644		
OWNER:		PROJECT:
KEVIN P. McCANN AND PATRICIA G. McCANN 13744 LAKESIDE DRIVE CLARKSVILLE, MARYLAND 21029-1351		BRIGHTON PINES, LOT 8 SECTION ONE, AREA ONE 13744 LAKESIDE DRIVE CLARKSVILLE, MD 21029
LOCATION:		TITLE:
TAX MAP No. 34 - GRID No. 7 - PARCEL No. 396 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND		REVISED PERCOLATION CERTIFICATION PLAN
DATE:	JANUARY, 2009	PROJECT NO. 2185
Design:	WEO	Draft: WEO
CHECKED:	JC	SCALE: 1" = 50'
DRAWING 1 OF 1		PROJECT NO. 2185

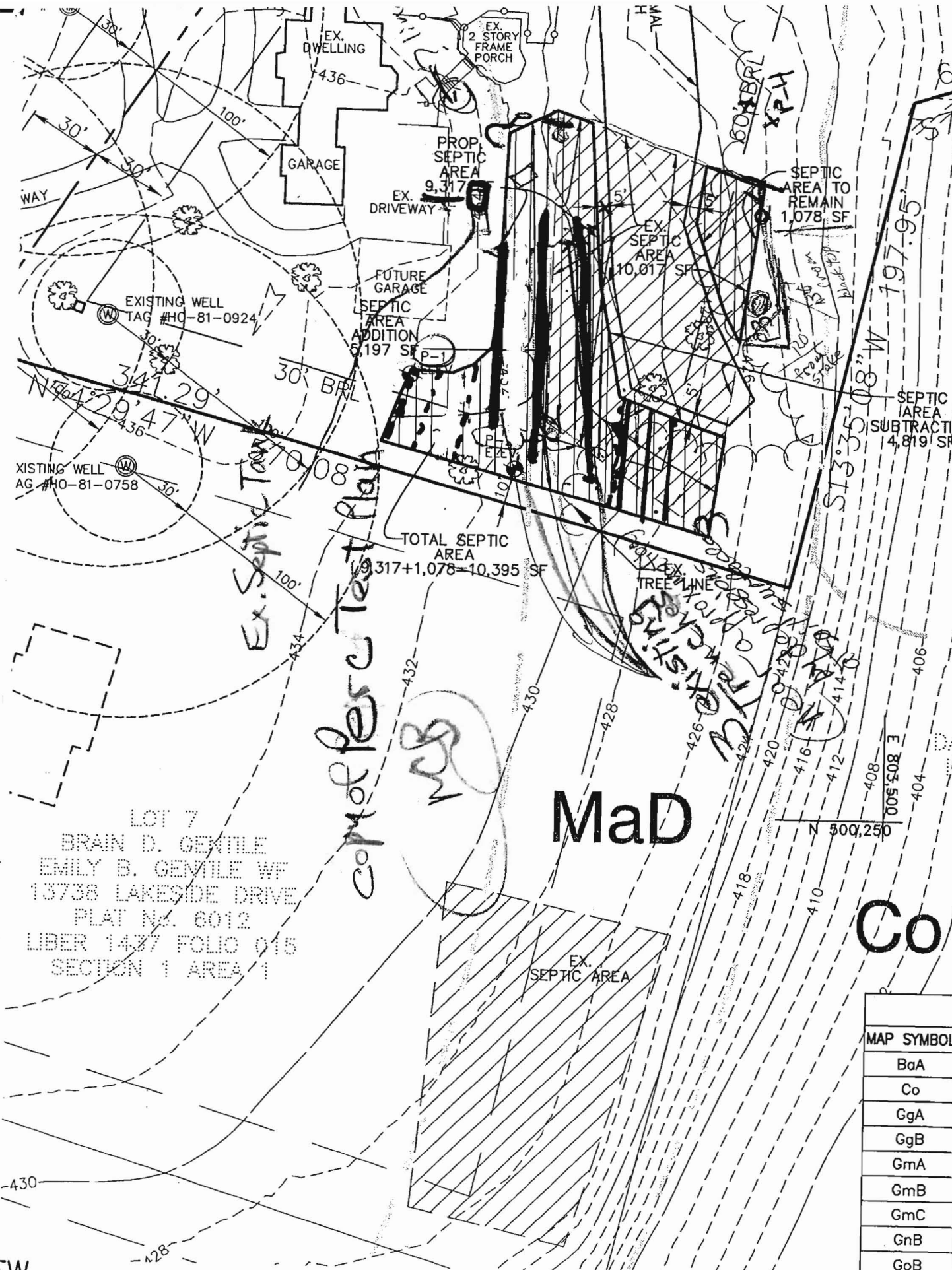
APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT

John M. Carney 1/27/2009
HOWARD COUNTY HEALTH OFFICER

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.

John M. Carney 1/23/09
JOHN CARNEY FOR BENCHMARK ENGINEERING, INC.
PLAN PREPARER

PLAN VIEW
SCALE: 1" = 50'



complete test plan

MAD

MAD

Co

MAP SYMBOL
BaA
Co
GgA
GgB
GmA
GmB
GmC
GnB
GoB
* HA
MaB
MaC
MaD

50'