

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

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

May 30, 2012

To: Chris Ogle, Benchmark Engineering, Inc.

From: Robert Bricker, CPSS, REHS/R.S., Environmental Sanitarian II
Well and Septic Program

RE: 13000 Wainwright Road, subdivision Perc Cert, amended comments

The following additions, deletions, and/or corrections are required, and if indicated, supercede comments of May 29.

1. A small portion of the proposed septic reserve area (near perc test #3) on proposed 'Lot 1' is within 25 feet of slopes > 25%.
2. Delete Note #6.
3. Add this Note:

All wells shall be drilled prior to final plat recordation. It is the developer's responsibility to schedule the well drilling prior to final plat submission. It will not be considered "government delay" if the well drilling holds up Health Department signature of the Record Plat.
4. Edit Note #8 as follows

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. Any septic system drainfield or septic reserve area within 200 feet up-gradient of proposed wells or wellboxes are shown.
5. Edit Note #9 as follows:

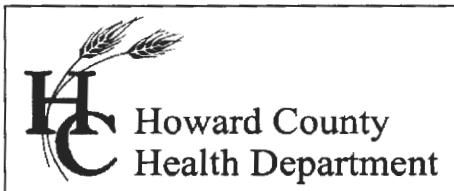
The purpose of this plan is to revise a previously approved percolation certification plan (7/16/98) by changing proposed lot lines, relocating a Use-In –Common (re: Ingress/Egress) Easement, and adding alternate wells and wellbox locations.
6. Edit Note #11 as follows (supercedes May 29 comment):

The existing drilled well (HO-94-0210) on proposed 'Lot 2' is to be sealed by a Licensed Well Driller, and the Well Abandonment Report received by the Health Department, prior to Record Plat submittal.
7. Add this Note:

The pit well in front of the existing house (identified as "Abandoned Well") on proposed 'Lot 2' is to be sealed by a Licensed Well Driller, and the Well Abandonment Report received by the Health Department, prior to Record Plat submittal.

8. Edit Note #12 as follows (supercedes May 29 comment):
The septic system serving the existing residence on proposed 'Lot 2' is to be abandoned and replaced prior to Record Plat submittal. Photos and a contractors report will be submitted to the Health Department showing and indicating proper abandonment of the existing septic tank and the existing dry well.
9. On proposed 'Lot 2', there is a structure about 45 feet long identified as "Ex. Structure To Be Removed". Correctly identify this structure as a : "Semi-truck trailer To Be Removed".
10. There are two auxiliary structures near the existing house on [proposed 'Lot 2'. Locate these two structures on the plan and identify whether what each is and whether it is 'To Remain' or 'To Be Removed'.
11. There is a utility easement crossing the subject property in the area proposed as 'Lot 2' and 'Lot 3'. Show the location of the utility easement and the location of the utility pole and the overhead electric line within the easement. Observe that neither a well location not the septic reserve area may occupy the same area as the utility easement.

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

June 8, 2012

To: Chris Ogle, Benchmark Engineering, Inc.

From: Robert Bricker, CPSS, REHS/R.S., Environmental Sanitarian II
Well and Septic Program

RE: 13000 Wainwright Road, subdivision Perc Cert, amended comments

The following adjustments are needed on the plan submitted for comment on June 5.

1. There are small unusable triangles at the 'top' and 'bottom' of the proposed septic reserve on Lot 1. It appears that these can be deleted and the lower boundary of the septic reserve 'squared off' the contour.
2. Similarly on Lot 2, delete the small unusable triangles and extend the septic reserve on contour to the southwest to make up the lost area.
3. On Lot 2, move 'Well #2' to the east a little so that it is not in the drainageway.
4. On Lot 2 add the phrase "To Be Sealed" to the label describing Approx. Abandoned Well, and insert the term "Pit" in the label (as it is a pit well).
5. Correct the label for Approx. Existing Well by replacing the term 'Abandoned' with the term "Sealed".

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SOILS LEGEND		
MAP SYMBOL	SOIL GROUP	SOIL TYPE
Cu*	C	CODORUS AND HATBORO SILT LOAMS, 0 TO 3 PERCENT SLOPES
Gc*	B	GAULA LOAM, 8 TO 15 PERCENT SLOPES
GgB	B	GLENELLE LOAM, 3 TO 6 PERCENT SLOPES
GhB*	C	GLENELLE SILT LOAM, 3 TO 8 PERCENT SLOPES
MV*	C	MANOR-BRINKLOW COMPLEX, 20 TO 65 PERCENT SLOPES, VERY ROCKY
MdD	B	MANOR LOAM, 15 TO 25 PERCENT SLOPES

FROM NATURAL RESOURCES CONSERVATION SERVICES WEB SOIL SURVEY 2.0
* ERODIBLE SOILS

PLAN
SCALE: 1" = 50'

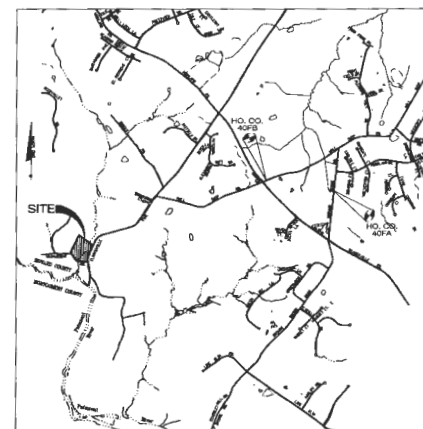
LEGEND

- EXISTING CONTOURS
- EXISTING TREELINE
- EXISTING STREAM
- EXISTING STREAM BUFFER
- APPROXIMATE 100 YEAR FLOODPLAIN LIMITS
- EXISTING STRUCTURE
- EXISTING OVERHEAD ELECTRIC
- PROPOSED STRUCTURE
- SLOPES 25% OR GREATER
- SOIL DELINEATION
- SOILS DELINEATION
- PROPOSED WELL
- PROPOSED WELL BOX
- PASSED PERCOLATION TEST LOCATION
- PROPOSED SEPTIC AREA

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS
BASED ON PREVIOUS WORK PERFORMED BY
CHANDLER & LANE AND IS CORRECT, TO THE BEST
OF KNOWLEDGE AND BELIEF AND BASED ON PREVIOUS
PERCOLATION CERTIFICATION PLAN APPROVED JULY 18,
1998

3. CHIEF GOLF
PLAN PREPARED



VICINITY MAP
SCALE: 1" = 2000'
ADC MAP PAGE: 5051
GRID: D4
GENERAL NOTES

- 1.3 THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM DIMENSION
WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT
OF THE ENVIRONMENT
- 2.3 THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST
15,000 S.F. 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 SEWER IS AVAILABLE. THIS EASEMENT
SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWER SYSTEM.
THE COUNTY HEALTH DEPARTMENT SHALL HAVE THE AUTHORITY TO SHOWN ADJUSTMENTS
TO THE PRIVATE SEWERAGE EASEMENT. RECONSTRUCTION OF A MODIFIED SEWERAGE
EASEMENT SHALL BE REQUIRED.
- 3.3 EXISTING LENGTH OF SEPTIC TRENCHES IS TO BE DETERMINED BY THE
HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
- 4.3 TOPOGRAPHY SHOWN IS BASED ON HOWARD COUNTY GCS.
- 5.3 THERE ARE NO EXISTING WELLS ON SEPTIC SYSTEMS WITHIN 100'
OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
- 6.3 ALL WELLS SHALL BE DRILLED PRIOR TO FINAL PLAT RECONSTRUCTION.
- 7.3 IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL
DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE
CONSIDERED "CONTRACTOR DELAY" IF THE WELL DRILLING HOLDS UP
HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
- 7.3 ANY CHANGES TO THE PRIVATE SEPTIC EASEMENT SHALL REQUIRE A
REVISED PERCOLATION CERTIFICATION PLAN.
- 8.3 EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS
WITHIN 100' OF THE PROPERTY AND HAVING WELLS WITHIN 200'
DOWN-GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEM OR
SEWERAGE DISPOSAL AREAS HAVE BEEN SHOWN. ANY SEPTIC SYSTEM
DRAINAGE FIELDS OR SEPTIC RESERVE AREA WITHIN 200' UP-GRADIENT OF
PROPOSED WELLS OR WELLS ARE SHOWN.
- 9.3 THE PURPOSE OF THIS PLAN IS TO REVISE A PREVIOUSLY APPROVED
PERCOLATION CERTIFICATION PLAN (7/18/98) BY CHANGING PROPOSED
LOT LINES, REDUCING A USE-AN-OWNERS (USE-AN-OWNERS) EASEMENT,
AND ADDING ALTERNATE WELLS AND WELLBOX LOCATIONS.
- 10.3 GRAVITY SEWER SERVICE TO THE BASEMENT OF THE EXISTING
HOUSE MAY NOT BE AVAILABLE FOR FUTURE REPLACEMENT SYSTEM.
- 11.3 THE EXISTING DRILLED WELL (040-94-0210) ON PROPOSED LOT 2
IS TO BE SEALED BY A LICENSED WELL DRILLER AND THE WELL
ABANDONMENT REPORT REQUIRED BY THE HEALTH DEPARTMENT PRIOR TO
RECORD PLAT SUBMITTAL.
- 12.3 THE SEPTIC SYSTEM SERVING THE EXISTING RESIDENCE ON
PROPOSED LOT 2 IS TO BE ABANDONED AND REPLACED PRIOR TO
RECORD PLAT SUBMITTAL. METHODS AND A CONTRACTORS REPORT WILL
BE SUBMITTED TO THE HEALTH DEPARTMENT SHOWING AND INDICATING
PROPER ABANDONMENT OF THE EXISTING SEPTIC TANK AND EXISTING
DRY WELL.
- 13.3 THE INT. WELL IN FRONT OF THE EXISTING HOUSE (OPENED AS
ABANDONED WELL) ON PROPOSED LOT 3 IS TO BE SEALED BY A
LICENSED WELL DRILLER, AND THE WELL ABANDONMENT REPORT
REQUIRED BY THE HEALTH DEPARTMENT PRIOR TO RECORD PLAT
SUBMITTAL.

BENCHMARK
DESIGNERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.
8440 BALTIMORE NATIONAL PIKE & SUITE 418 A ELKTON CITY, MARYLAND 21043
(71) 410-460-4105 (71) 410-460-9944
80 THOMAS JOHNSON DRIVE # FREDERICK, MARYLAND 21702
(71) 301-371-3805 (71) 301-371-3300
WWW.B20-CHALLENGERENGINEERING.COM

OWNER:		PROJECT:	
EML MANAGEMENT, LLC 3 ASHCROFT WAY REISTERSTOWN, MARYLAND 21136		13000 WAINWRIGHT ROAD	
LOCATION:		THE MAP-40-000-15 PARCELS-42 HOWARD COUNTY, MARYLAND	
TITLE:		REVISED PERCOLATION CERTIFICATION PLAN	
DATE:		JUNE 2023	
PROJECT NO. 2485		DRAWING NO. 1 OF 1	
DESIGN: CHA/JCO	DRAFT: JCO	SCALE: AS SHOWN	

BENCHMARK

ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS

ENGINEERING, INC.

☐ 8480 Baltimore National Pike • Suite 315 • Ellicott City, Maryland 21043
410-465-6105 410-465-6644 (Fax)

☐ 75 Thomas Johnson Drive • Suite E • Frederick, Maryland 21702
301-710-5686

LETTER OF TRANSMITTAL

TO: HOWARD COUNTY HEALTH
DEPARTMENT

DATE	<u>2/7/14</u>	PROJECT No.	<u>2405</u>
ATTENTION	<u>ROBERT BRICKER</u>		
RE:	<u>13000 WAINWRIGHT RD</u>		

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items

☐ Photocopies ☒ Prints ☐ Originals ☐ Samples

☐ Specifications ☐ Invoices ☐ Change Order ☐ Other _____

COPIES of	No. of SHEETS	DESCRIPTION
<u>3</u>	<u>2</u>	<u>REVISED PERC CERT & BAT PLAN</u>

THESE ARE TRANSMITTED as checked below

☐ For Comment ☒ For your use ☐ For Approval

☐ For Review ☒ As requested ☐ Other _____

REMARKS: REVISED PER COMMENTS DATED 2/4/14

COPY TO: _____

RECEIVED BY: Jessie King

If enclosures are not as noted, kindly notify us at once.

SIGNED: J. Chapple

APPLICATION

PERCOLATION TESTING

A 58073A

P _____

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

DISTRICT _____

DATE 4/7/97

4/7/97

Preview O.K.
ALM

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

DEVELOPER
PROPERTY OWNER

HP ASSOCIATES 90 REESE & CARNY

ADDRESS #10715 CHARTER DR, COL 21044 PHONE (301) 854-0936

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION HP HILL LOT NO. 1

ROAD AND DESCRIPTION ROUTE 108 @ MONTGOMERY CO. LINE

TAX MAP 40 PARCEL # 42

SIZE OF LOT 4.00 AC.± TYPE BLDG. SINGLE FAMILY
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE

FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO

COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT. [Signature] (HP Associates)
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

A58073A

COUNTY #

SOIL PROFILE

6.0"

topsoil
brown/or
sandy
clay
loam

2.5'

tan
sandy /
silty loam
10% shale
fragments

10.0'

(3)

6.0"

topsoil
orange/red
clay fm

4.5'

tan
silty
sandy
loam

12.0'

15%
rock
fragments

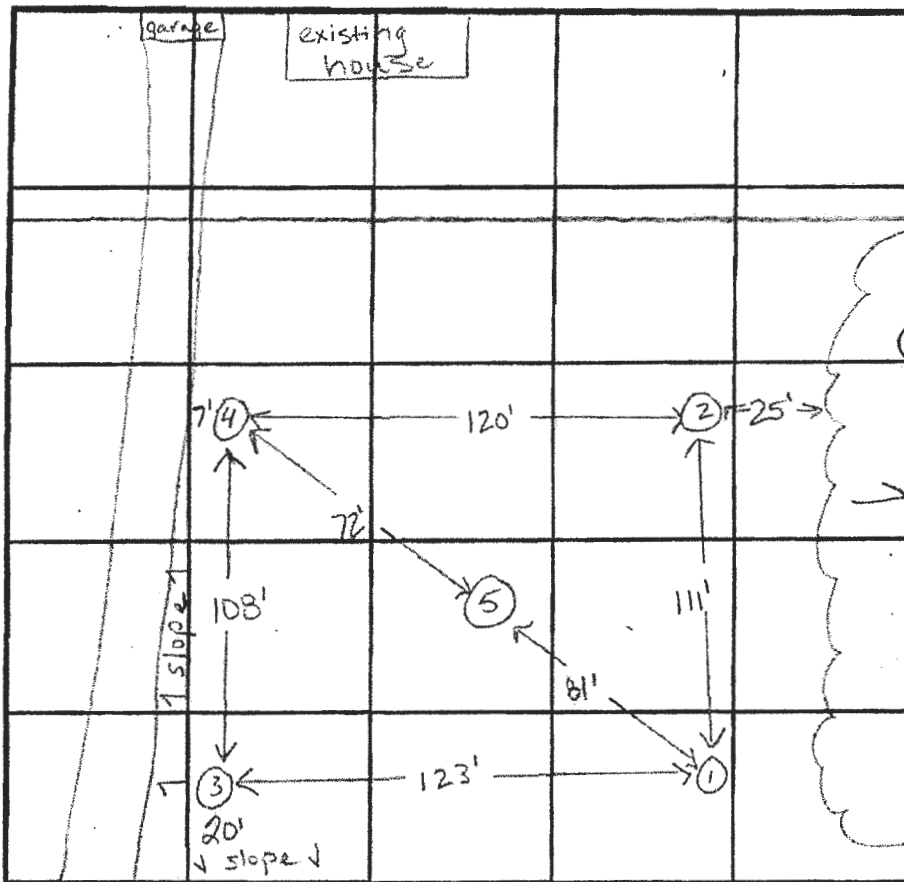
(4)

6.0"

topsoil
orange /
brown / red
clay
loam

3.0'

tan / orange
silty
sandy
loam
15%
rock
fragments



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE. Wainwright Road

SOIL PROFILE

6.0" topsoil
or / brown
sandy
clay
loam

2.5' silty
sandy
loam
br / tan
10%
shale
frags

11.5'

DATE	TEST NO.	DEPTH	PRE-WET START	PRE-WET STOP	TEST - 1" DROP START	TEST - 1" DROP STOP	TIME
4-21-97	(1)	3.0'S	10:19	10:20	10:20	10:21	fast repour
		10.0'D	visual - see profile				
		(repour)	10:21	10:22	10:22	10:24	2min
	(2)	12.0'D	visual only - see profile for hole #1				
	3	4.0'S	10:27	10:30	10:30	10:33	3min
		12.0'D	visual ok - see profile				
	4	4.5'S	10:46	10:53	10:53	11:04	11min
		8.0'D	10:40	10:42	10:42	10:44	2min
		12.5'D	visual ok - see profile				
	(5)	11.5'D	visual ok - see profile				

REMARKS test holes not staked

TYPE OF SOIL

TESTED BY Kim Maister / Kim Soe

ALSO PRESENT Olen Ketterman

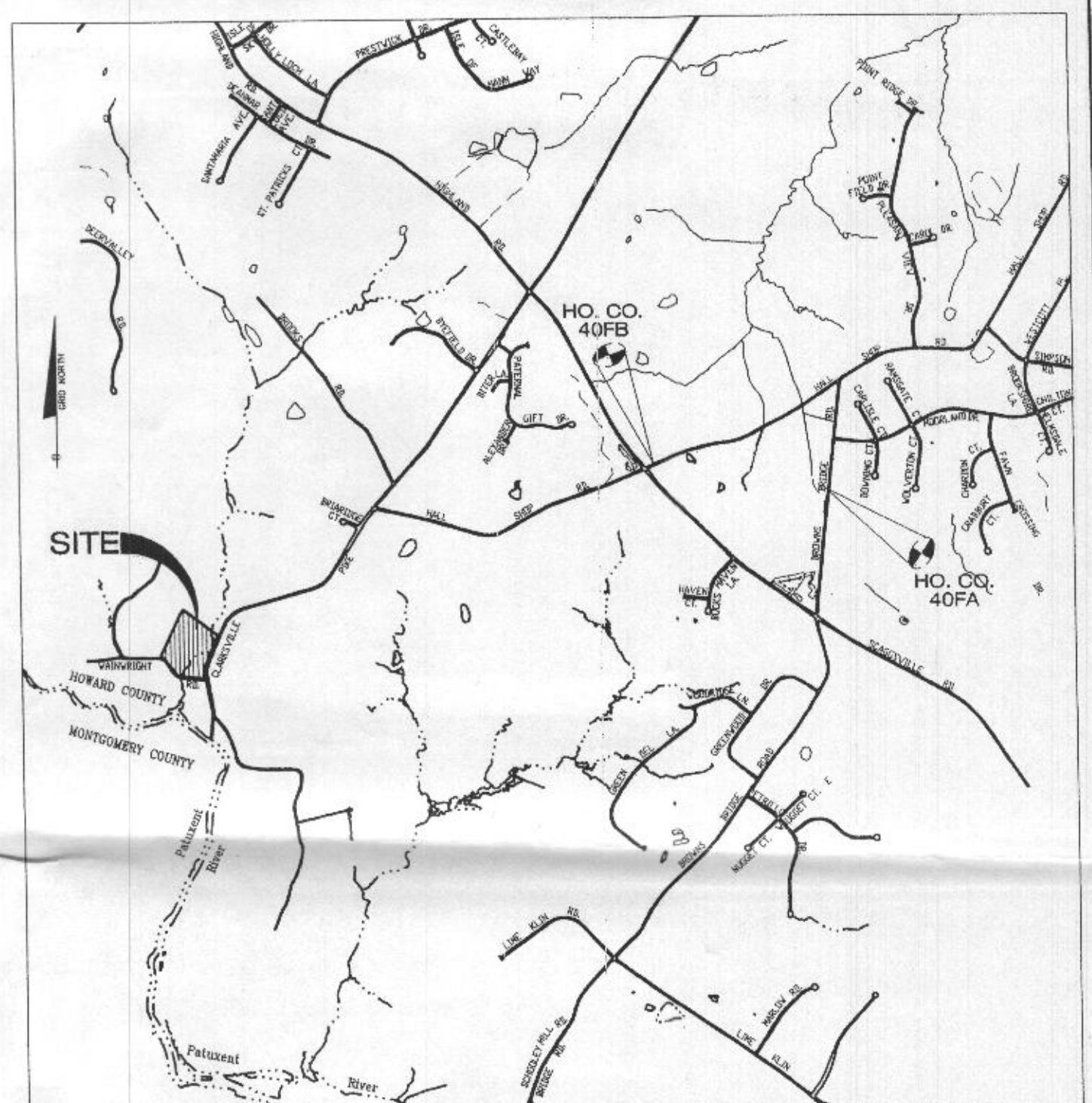
TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 4-5 min

TRENCH WIDTH 3

INLET DEPTH 3.0

MAXIMUM BOTTOM DEPTH 5.0

SQ. FT./BEDROOM 180



LEGEND

- EXISTING CONTOURS
- EXISTING TREELINE
- EXISTING STREAM
- EXISTING STREAM BUFFER
- APPROXIMATE 100 YEAR FLOODPLAIN LIMITS
- EXISTING STRUCTURE
- EXISTING OVERHEAD ELECTRIC
- PROPOSED STRUCTURE
- SLOPES 25% OR GREATER
- SOIL DELINEATION
- SOILS DELINEATION (Soil Map Unit Label)
- PROPOSED WELL
- PROPOSED WELL BOX
- PASSED PERCOLATION TEST LOCATION
- PROPOSED SEPTIC AREA

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
Nathan P. Peterson 6/21/2012
HOWARD COUNTY HEALTH OFFICER DATE 9/21/2012

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON PREVIOUS WORK PERFORMED BY SHANABERGER & LANE AND IS CORRECT, TO THE BEST OF KNOWLEDGE AND BELIEF AND BASED ON PREVIOUS PERCOLATION CERTIFICATION PLAN APPROVED JULY 16, 1998 BY THE HEALTH DEPARTMENT.
J. Chris Ogle
J. CHRIS OGLE
PLAN PREPARER

VICINITY MAP
SCALE: 1" = 2000'
ADC MAP PAGE: 5051,
GRID: D4
GENERAL NOTES

- 1.) THE LOTS 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 10,000 S.F. 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 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. RECORDATION OF A MODIFIED SEWERAGE EASEMENT 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.
- 5.) THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
- 6.) ALL WELLS SHALL BE DRILLED PRIOR TO FINAL PLAT RECORDATION. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS UP HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
- 7.) ANY CHANGES TO THE PRIVATE SEPTIC EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- 8.) 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. ANY SEPTIC SYSTEM DRAINFIELDS OR SEPTIC RESERVE AREA WITHIN 200' UP-GRADIENT OF PROPOSED WELLS OR WELLBOXES ARE SHOWN.
- 9.) THE PURPOSE OF THIS PLAN IS TO REVISE A PREVIOUSLY APPROVED PERCOLATION CERTIFICATION PLAN (7/16/98) BY CHANGING PROPOSED LOT LINES, RELOCATION A USE-IN-COMMON (RE INGRESS/EGRESS) EASEMENT, AND ADDING ALTERNATE WELLS AND WELLBOX LOCATIONS.
- 10.) GRAVITY SEWER SERVICE TO THE BASEMENT OF THE EXISTING HOUSE MAY NOT BE AVAILABLE FOR FUTURE REPLACEMENT SYSTEM.
- 11.) THE EXISTING DRILLED WELL (HO-94-0210) ON PROPOSED LOT 2 IS TO BE SEALED BY A LICENSED WELL DRILLER, AND THE WELL ABANDONMENT REPORT RECEIVED BY THE HEALTH DEPARTMENT PRIOR TO RECORD PLAT SUBMITTAL.
- 12.) THE SEPTIC SYSTEM SERVING THE EXISTING RESIDENCE ON PROPOSED LOT 2 IS TO BE ABANDONED AND REPLACED PRIOR TO RECORD PLAT SUBMITTAL. PHOTOS AND A CONTRACTORS REPORT WILL BE SUBMITTED TO THE HEALTH DEPARTMENT SHOWING AND INDICATING PROPER ABANDONMENT OF THE EXISTING SEPTIC TANK AND EXISTING DRY WELL.
- 13.) THE PIT WELL IN FRONT OF THE EXISTING HOUSE (IDENTIFIED AS ABANDONED WELL) ON PROPOSED LOT 2 IS TO BE SEALED BY A LICENSED WELL DRILLER, AND THE WELL ABANDONMENT REPORT RECEIVED BY THE HEALTH DEPARTMENT PRIOR TO RECORD PLAT SUBMITTAL.

SOILS LEGEND		
MAP SYMBOL	SOIL GROUP	SOIL TYPE
Co*	C	CODORUS AND HATBORO SILT LOAMS, 0 TO 3 PERCENT SLOPES
GoC	B	GAILA LOAM, 8 TO 15 PERCENT SLOPES
GgB	B	GLENELG LOAM, 3 TO 8 PERCENT SLOPES
GmB*	C	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES
MkF	B	MANOR-BRINKLOW COMPLEX, 25 TO 65 PERCENT SLOPES, VERY ROCKY
MoD	B	MANOR LOAM, 15 TO 25 PERCENT SLOPES

FROM NATURAL RESOURCES CONSERVATION SERVICES WEB SOIL SURVEY 2.0
* ERODIBLE SOILS

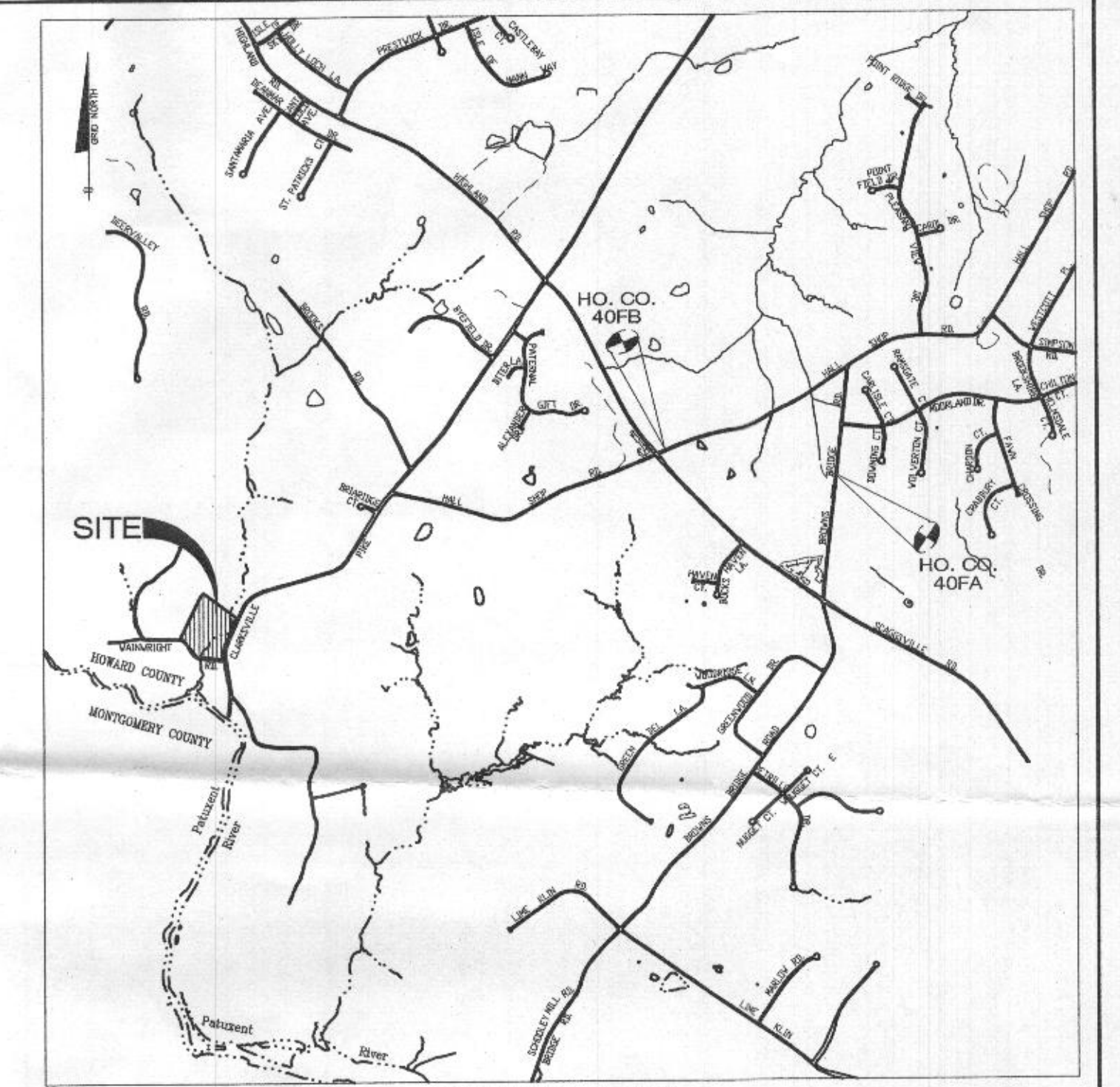
PLAN
SCALE: 1" = 50'

BENCHMARK
ENGINEERS • LAND SURVEYORS • PLANNERS
ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE • SUITE 418 • ELLICOTT CITY, MARYLAND 21043
(P) 410-485-6105 (F) 410-485-6644
60 THOMAS JOHNSON DRIVE • FREDERICK, MARYLAND 21702
(P) 301-371-3505 (F) 301-371-3506
WWW.BEI-CIVILENGINEERING.COM

OWNER:	PROJECT:
EML MANAGEMENT, LLC 3 ASHGROUN WAY REISTERSTOWN, MARYLAND 21136	13000 WAINWRIGHT ROAD
LOCATION:	TAX MAP-40 GRID-15 PARCEL-42 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE:	REVISED PERCOLATION CERTIFICATION PLAN
DATE:	JUNE, 2012
PROJECT NO.	2465
DESIGN:	CAM/JCO
DRAFT:	JCO
SCALE:	AS SHOWN
DRAWING	1 OF 1



- ### LEGEND
- EXISTING CONTOURS
 - EXISTING TREELINE
 - PROPOSED TREELINE
 - EXISTING STREAM
 - EXISTING STREAM BUFFER
 - APPROXIMATE 100 YEAR FLOODPLAIN LIMITS
 - EXISTING STRUCTURE
 - PROPOSED STRUCTURE
 - SLOPES 25% OR GREATER
 - SOIL DELINEATION
 - SOILS DELINEATION
 - PROPOSED WELL
 - 100 YEAR FLOODPLAIN
 - PERCOLATION TEST LOCATION (PASSED)
 - PROPOSED SEPTIC AREA
 - PREVIOUSLY APPROVED SEPTIC AREA TO BE ABANDONED
 - PREVIOUSLY APPROVED WELL AREA TO BE ABANDONED
 - PREVIOUSLY APPROVED WELL TO BE ABANDONED



- ### GENERAL NOTES
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
 - THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 S.F. 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 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. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE REQUIRED.
 - TOPOGRAPHY SHOWN IS BASED ON HOWARD COUNTY GIS AND A FIELD RUN SURVEY PREPARED BY BENCHMARK ENGINEERING, INC. DATED JUNE 2012.
 - THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
 - ANY CHANGES TO THE PRIVATE SEPTIC EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 - 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 SEWERAGE DISPOSAL AREAS HAVE BEEN SHOWN. ANY SEPTIC SYSTEM DRAINFIELDS OR SEPTIC RESERVE AREA WITHIN 200' UP-GRADIENT OF PROPOSED WELLS ARE SHOWN.
 - THE PURPOSE OF THIS PLAN IS TO REVISE PREVIOUSLY APPROVED PERCOLATION CERTIFICATION PLANS (7/16/98 & 6/27/12) BY PROVIDING ONE SEPTIC RESERVE AREA AND ADDING 2 ALTERNATE WELLS LOCATIONS.
 - THE EXISTING DRILLED WELL (HO-94-0210) IS TO REMAIN.
 - PRIOR TO BUILDING PERMIT APPROVAL THE SEPTIC SYSTEM IS TO BE UPGRADED BY INSTALLATION OF A BAT UNIT AND TRENCHES. THE EXISTING SEPTIC TANK AND DRY WELL WILL BE PUMPED AND PROPERLY ABANDONED IN ORDER FOR THE ATTENDING ENVIRONMENTAL SANITARIAN TO APPROVED THE INSTALLATION PERMIT. THE BAT UNIT MUST BE CERTIFIED FOR USE BEFORE THE BUILDING PERMIT IS APPROVED BY THE HEALTH DEPARTMENT.
 - THE PIT WELL IN FRONT OF THE EXISTING HOUSE (IDENTIFIED AS ABANDONED WELL) IS TO BE SEALED BY A LICENSED WELL DRILLER, AND THE WELL ABANDONMENT REPORT RECEIVED BY THE HEALTH DEPARTMENT PRIOR TO BUILDING PERMIT APPROVAL.
 - PRIOR TO BUILDING PERMIT APPROVAL, THE EXISTING SYCAMORE TREE LOCATED ADJACENT TO THE EXISTING WELL IS TO BE REMOVED WITHOUT DAMAGING THE WELL CASING OR ELECTRIC CONDUIT.

SEPTIC DATA

INV. OUT OF HOUSE	336.2
GRADE AT HOUSE OUT	346.0
INV. IN SEPTIC TANK	334.3
INV. OUT SEPTIC TANK	334.0
TOP OF SEPTIC TANK	335.0
GROUND OVER TANK	337.5
GROUND AT DISTRIBUTION BOX	332.5
INV. IN TRENCH	328.5

SOILS LEGEND

MAP SYMBOL	SOIL GROUP	SOIL TYPE
Co*	C	CDORUS AND HATBORO SILT LOAMS, 0 TO 3 PERCENT SLOPES
GcC	B	GAILA LOAM, 8 TO 15 PERCENT SLOPES
GgB	B	GLENELO LOAM, 3 TO 8 PERCENT SLOPES
GmB*	C	GLENNVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES
MkF	B	MANOR-BRINKLOW COMPLEX, 25 TO 85 PERCENT SLOPES, VERY ROCKY
MoD	B	MANOR LOAM, 15 TO 25 PERCENT SLOPES

FROM NATURAL RESOURCES CONSERVATION SERVICES WEB SOIL SURVEY 2.0
* ERODIBLE SOILS

PLAN
SCALE: 1" = 50'

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT

Mania Ross 2/27/2014
HOWARD COUNTY HEALTH OFFICER DATE

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON PREVIOUS WORK PERFORMED BY SHANABGERGER & LANE AND IS CORRECT, TO THE BEST OF KNOWLEDGE AND BELIEF AND BASED ON PREVIOUS PERCOLATION CERTIFICATION PLAN APPROVED JULY 16, 1998 BY THE HEALTH DEPARTMENT.

Chris Ogde
PLAN PREPARED BY: CHRIS OGDE
BENCHMARK ENGINEERING, INC.

BENCHMARK ENGINEERS • LAND SURVEYORS • PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE & SUITE 315 & ELLICOTT CITY, MARYLAND 21043 (P) 410-465-6105 (F) 410-465-6644 75 THOMAS JOHNSON DRIVE & SUITE-E & FREDERICK, MARYLAND 21702 (P) 301-371-3505 (F) 301-371-3506 WWW.BEI-CIVILENGINEERING.COM	
OWNER:	PROJECT:
BRIAN MESHKIN & CATHERINE MESHKIN 13000 WAINWRIGHT ROAD HIGHLAND, MD 20777 410-290-9899	13000 WAINWRIGHT ROAD
DESIGN: JCO	DRAFT: JCO
DATE: JANUARY 2014 FEBRUARY 2014	PROJECT NO. 2465
SCALE: AS SHOWN	DRAWING 1 OF 2

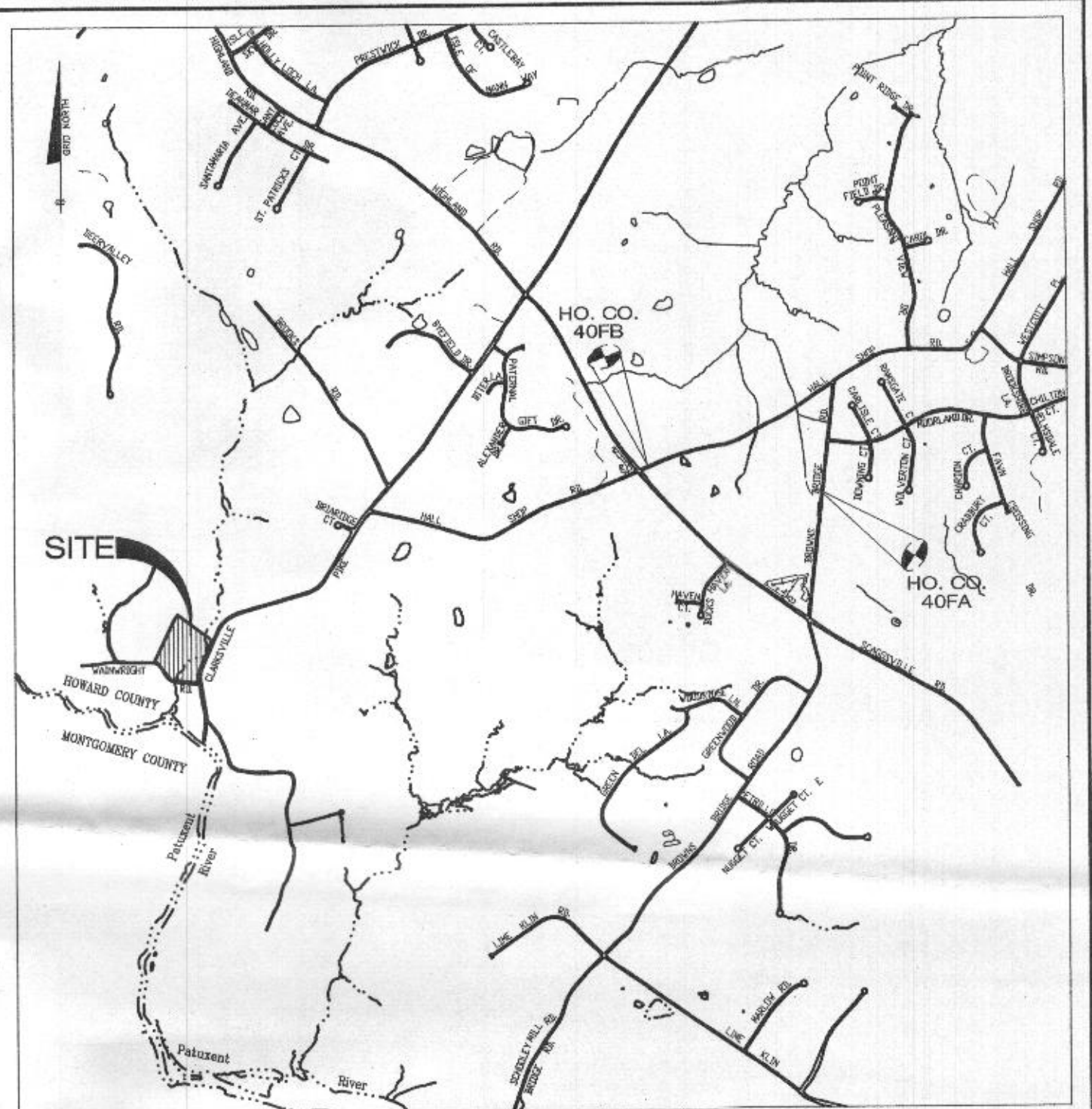


LEGEND

EXISTING CONTOURS
EXISTING TREELINE
PROPOSED TREELINE
EXISTING STREAM
EXISTING STREAM BUFFER
APPROXIMATE 100 YEAR FLOODPLAIN LIMITS
EXISTING STRUCTURE
PROPOSED STRUCTURE
SLOPES 25% OR GREATER
SOIL DELINEATION
SOILS DELINEATION
PROPOSED WELL
100 YEAR FLOODPLAIN
PERCOLATION TEST LOCATION (PASSED)
PROPOSED SEPTIC AREA
PREVIOUSLY APPROVED SEPTIC AREA TO BE ABANDONED
PREVIOUSLY APPROVED WELL AREA TO BE ABANDONED
PREVIOUSLY APPROVED WELL TO BE ABANDONED

SEPTIC DATA

INV. OUT OF HOUSE	336.2
GRADE AT HOUSE OUT	346.0
INV. IN SEPTIC TANK	334.3
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TOP OF SEPTIC TANK	335.0
GROUND OVER TANK	337.5
GROUND AT DISTRIBUTION BOX	332.5
INV. IN TRENCH	328.5



VICINITY MAP
SCALE: 1" = 2000'
ADC MAP PAGE: 5051,
GRID: D4

GENERAL NOTES

- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 S.F. 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 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. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE REQUIRED.
- TOPOGRAPHY SHOWN IS BASED ON HOWARD COUNTY GIS AND A FIELD RUN SURVEY PREPARED BY BENCHMARK ENGINEERING, INC. DATED JUNE 2012.
- THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
- ANY CHANGES TO THE PRIVATE SEPTIC EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- 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 SEWERAGE DISPOSAL AREAS HAVE BEEN SHOWN. ANY SEPTIC SYSTEM DRAINFIELDS OR SEPTIC RESERVE AREA WITHIN 200' UP-GRADIENT OF PROPOSED WELLS ARE SHOWN.
- THE PURPOSE OF THIS PLAN IS TO REVISE PREVIOUSLY APPROVED PERCOLATION CERTIFICATION PLANS (7/16/98 & 6/27/12) BY PROVIDING ONE SEPTIC RESERVE AREA AND ADDING 2 ALTERNATE WELLS LOCATIONS.
- THE EXISTING DRILLED WELL (HO-94-0210) IS TO REMAIN.
- PRIOR TO BUILDING PERMIT APPROVAL THE SEPTIC SYSTEM IS TO BE UPGRADED BY INSTALLATION OF A BAT UNIT AND TRENCHES. THE EXISTING SEPTIC TANK AND DRY WELL WILL BE PUMPED AND PROPERLY ABANDONED IN ORDER FOR THE ATTENDING ENVIRONMENTAL SANITARIAN TO APPROVED THE INSTALLATION PERMIT. THE BAT UNIT MUST BE CERTIFIED FOR USE BEFORE THE BUILDING PERMIT IS APPROVED BY THE HEALTH DEPARTMENT.
- THE PIT WELL IN FRONT OF THE EXISTING HOUSE (IDENTIFIED AS ABANDONED WELL) IS TO BE SEALED BY A LICENSED WELL DRILLER, AND THE WELL ABANDONMENT REPORT RECEIVED BY THE HEALTH DEPARTMENT PRIOR TO BUILDING PERMIT APPROVAL.
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SOILS LEGEND

MAP SYMBOL	SOIL GROUP	SOIL TYPE
Co*	C	CODRUS AND HATBORO SILT LOAMS, 0 TO 3 PERCENT SLOPES
GsC	B	GAILA LOAM, 8 TO 15 PERCENT SLOPES
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FROM NATURAL RESOURCES CONSERVATION SERVICES WEB SOIL SURVEY 2.0
* ERODIBLE SOILS

PLAN
SCALE: 1" = 50'

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT

B. Wilson for Maria Rodriguez 2/24/2014
DATE 2/18

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON PREVIOUS WORK PERFORMED BY SHANABGER & LANE AND IS CORRECT, TO THE BEST OF KNOWLEDGE AND BELIEF AND BASED ON PREVIOUS PERCOLATION CERTIFICATION PLAN APPROVED JULY 16, 1998 BY THE HEALTH DEPARTMENT.

Chris Ogle
PLAN PREPARED BY A. CHRIS OGLE
BENCHMARK ENGINEERING, INC.

BENCHMARK ENGINEERING, INC.
ENGINEERS & LAND SURVEYORS & PLANNERS
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OWNER: BRIAN MESHKIN & CATHERINE MESHKIN
13000 WAINWRIGHT ROAD
HIGHLAND, MD 20777
410-290-9899

PROJECT: 13000 WAINWRIGHT ROAD

LOCATION: TAX MAP-40 GRID-15 PARCEL-42
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: REVISED PERCOLATION CERTIFICATION AND BAT PLAN

DATE: JANUARY 2014
FEBRUARY 2014

PROJECT NO. 2465

SCALE: AS SHOWN

DRAWING 1 OF 2

DESIGN: JCO DRAFT: JCO