

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

A/P 530951

AGENCY REVIEW: _____

DATE 3/27/09

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) Pole barn
- 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) Edward James Simpson

DAYTIME PHONE 301-831-7635 CELL 443-7650055 FAX _____

MAILING ADDRESS 1115 Shaffersville Rd Mount Airy MD 21221
STREET CITY/TOWN STATE ZIP

APPLICANT Edward J Simpson

DAYTIME PHONE 301-831-7635 CELL 443-7650055 FAX _____

MAILING ADDRESS 1115 Shaffersville Rd Mount Airy MD 21221
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION Crowder property
SUBDIVISION/PROPERTY NAME 1115 Shaffersville Rd LOT NO. 2

PROPERTY ADDRESS 1115 Shaffersville Rd Mount Airy MD 21221
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) No 6 GRID _____ PARCEL(S) No 45 PROPOSED LOT SIZE 5.135A

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.

EJ Simpson
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-1771 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

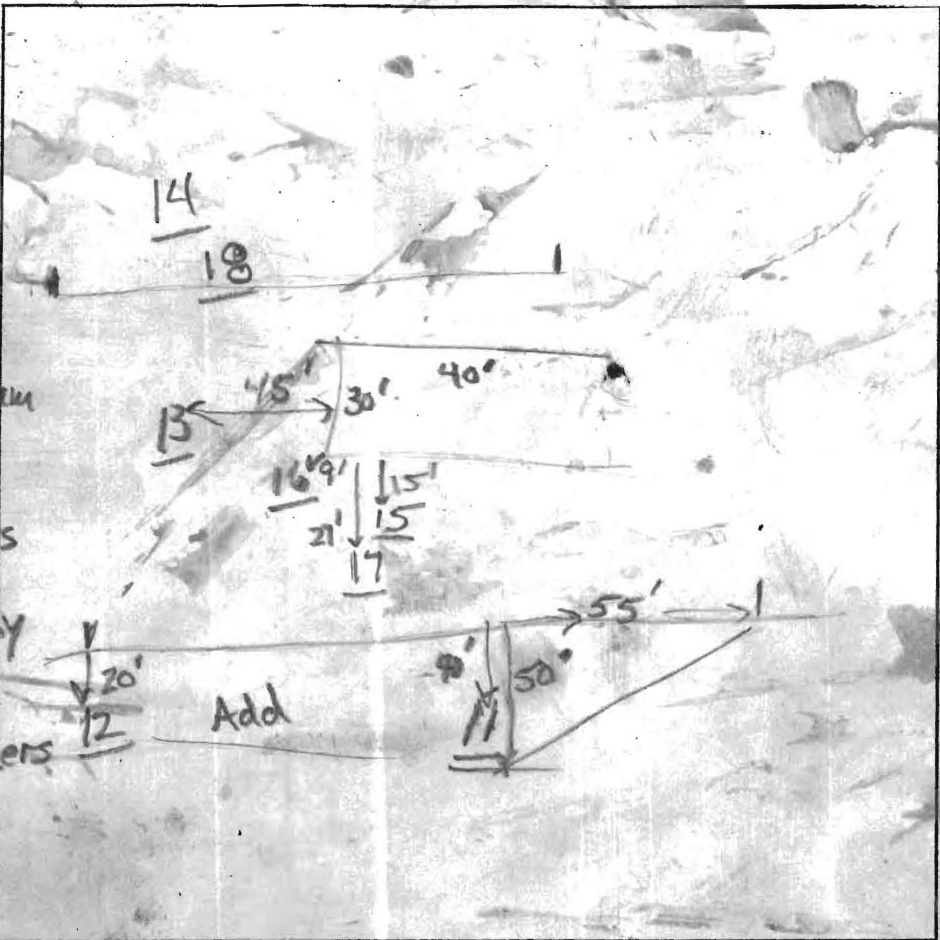
11 & 13

1' brn grcl
 1' yel brn grscl
 slight sticky
 to brn grscl
 2.5' brn veh loam
 slight sticky
 clay coatings
 3.5' brn veh sl, ss
 x fl gr sl
 flags blue gray
 ch wall etc
 8.5' stopped

few boulders
 >> 65% rock

0.5' brn loam
 1' brn grcl
 2.5' yel-red
 ch loam
 3.5' brn
 veh loam
 5' bouldery
 vel loam
 ~60%

18
 0.7' dk brn loam
 3' brn grcl
 to brn heavy sl
 red & tan
 ch sl, om
 6' brn veh sl
 40%
 8.5' brn vel sl
 50%
 10' x fl sl
 10.5' stopped



13
 0.5' brn grcl
 1' brn ch cl
 slight sticky
 2.5' red & tan
 ch loam
 3.5' red & brn
 veh loam
 8' brn
 veh & fl loam
 brn red
 vel loam
 few boulders
 60% rock

16
 1' fill
 dk gray brn
 loam
 1.5' brn cl
 to yel-brn cl
 4' red & brn
 ch loam
 8.5' brn veh loam
 11' red tan, brn
 fl loam
 moist
 12' hard

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5/6/09	11	3.5 7.5	10:10	10:12	10:16	4	P
5/6/09	12	7.5	Visual	Profile OK	sidewall 25-3.5	P	P
5/6/09	13	3/8	11:05	11:15	pulled		
reshelf	13	4/8	11:19	11:26	11:34	8	P
5/6/09	14	5'	Visual	>> 50% rock			F
5/6/09	16	12'	Visual	sidewall OK	4' to 8'		P
5/6/09	18	4.5' 10	12:57	12:59	1:11	12	P

REMARKS #174# 15: 1.5' Fill; 3' to grey gravel (clean)
 SANITARIAN RB BACKHOE Mike Johnson OTHERS Mike Jr., Eddie Simpson
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____



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

May 12, 2009

To: Edward Simpson
Owner

From: Robert Bricker, CPSS, RS
Environmental Sanitarian
Well and Septic Program

RE: 1115 Shaffersville Road, Percolation Test Results, A530951

Dear Mr. Simpson,

Percolation testing was conducted on the referenced property on May 6, 2009. The purpose of conducting these tests was to re-establish area for a septic easement. About 3000 square feet of the previously defined septic easement had been compromised by non-permitted construction of a 30' X 40' pole barn.

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. The soils tested are within soil map units GgB (Glenelg loam, 3% to 8% slopes) and OcC (Occaquon loam, 8% to 15% slopes). Percolation Test Results indicate areas of soils' conditions that are both satisfactory and unsatisfactory for onsite wastewater disposal. Subsequently, areas suitable for inclusion in a septic easement are limited. The primary limiting factors on the subject property are 1) shallow depth to bedrock, and 2) very slow percolation rates in the upper soil profile,

Test locations 11 and 12 had 7.5 feet depth to rock (fractured shale, greater than 50 percent rock by volume). Test #11 had a moderately rapid rate of permeability at 3.5 feet; test #12 (which is just downhill of the original test #7) had the same depth to bedrock. Test location #13 (in the middle of the original septic easement) had 8 feet depth to bedrock and a moderate rate of permeability at 4 feet. Fifteen feet uphill of the top easement boundary, test # 18 had 10 feet to bedrock and moderate permeability at 4.5 feet. Test location #14, between #18 and the Shaffersville Road right-of-way, failed due to greater than 50 percent fractured shale at 5 feet depth. Location # 16, a profile exposure approximately 10 feet from the pole barn, has a suitable soil [profile to 12 depth. Locations #15 and #17 define existing trench locations.

As the Health Department has installation documentation for the existing system, only the top of the gravel was exposed. The gravel in both trenches is clean. Depth to top of gravel from original soil surface is 1.5 feet. An additional 1.5 feet of fill materials was observed over both trenches. The uppermost trench is only 15 feet from the pole barn, therefore a variance from the regulated 20-foot setback will need to be requested so that the top trench can remain in service.

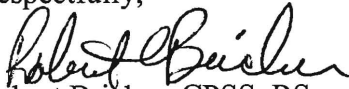
Field data collected are shown on the Percolation Test Results Worksheets enclosed with this letter. Recommended Inlet and Trench Bottom depths, and Usable Sidewall are all based on observed soil properties and characteristics at respective test locations as well as the particular soils materials tested.

Two general areas have been identified as appropriate for inclusion in a re-defined septic easement. (1) An approximate 50' X 50' area represented by #11 may be added to the lower boundary of the original septic easement; (2) a strip about 15 feet wide may be added to the uppermost boundary of the original septic easement.

The existing water source is a drilled well, observed about 24 feet from the front of the existing residence. The well, tag #HO-81-1642, is easily observed and appears to meet code.

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 Bricker, CPSS, RS
Well and Septic Program
Development Coordination Section

Enclosure: field data sheet and site sketch

Copy: File

NOTES

1. This area designates a private sewage area of at least 10,000 square feet as required by the Maryland State Department of the Environment for individual sewage disposal. Improvements of any nature in this area are restricted until public sewerage is available. These areas 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.
2. The lot shown hereon complies with the minimum ownership, width, and lot area as required by the Maryland State Department of the Environment.
3. 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 using all reasonable efforts.
4. Topography shown is at two-foot contour intervals from Howard County GIS and is verified to represent relative elevation features.
5. Any changes to a private sewage area shall require a revised percolation certification plan.
6. The purpose of this revision is to adjust the required 10,000 square foot septic reserve to accommodate a constructed pole barn.
7. A variance has been requested to allow a distribution trench to remain approximately 15 feet from the pole barn.

I CERTIFY THAT THE INFORMATION SHOWN HERON IS BASED ON FIELD WORK PERFORMED BY ME OR IN MY PRESENCE, OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

E.J. Simpson
SIGNATURE

7/24/09
DATE

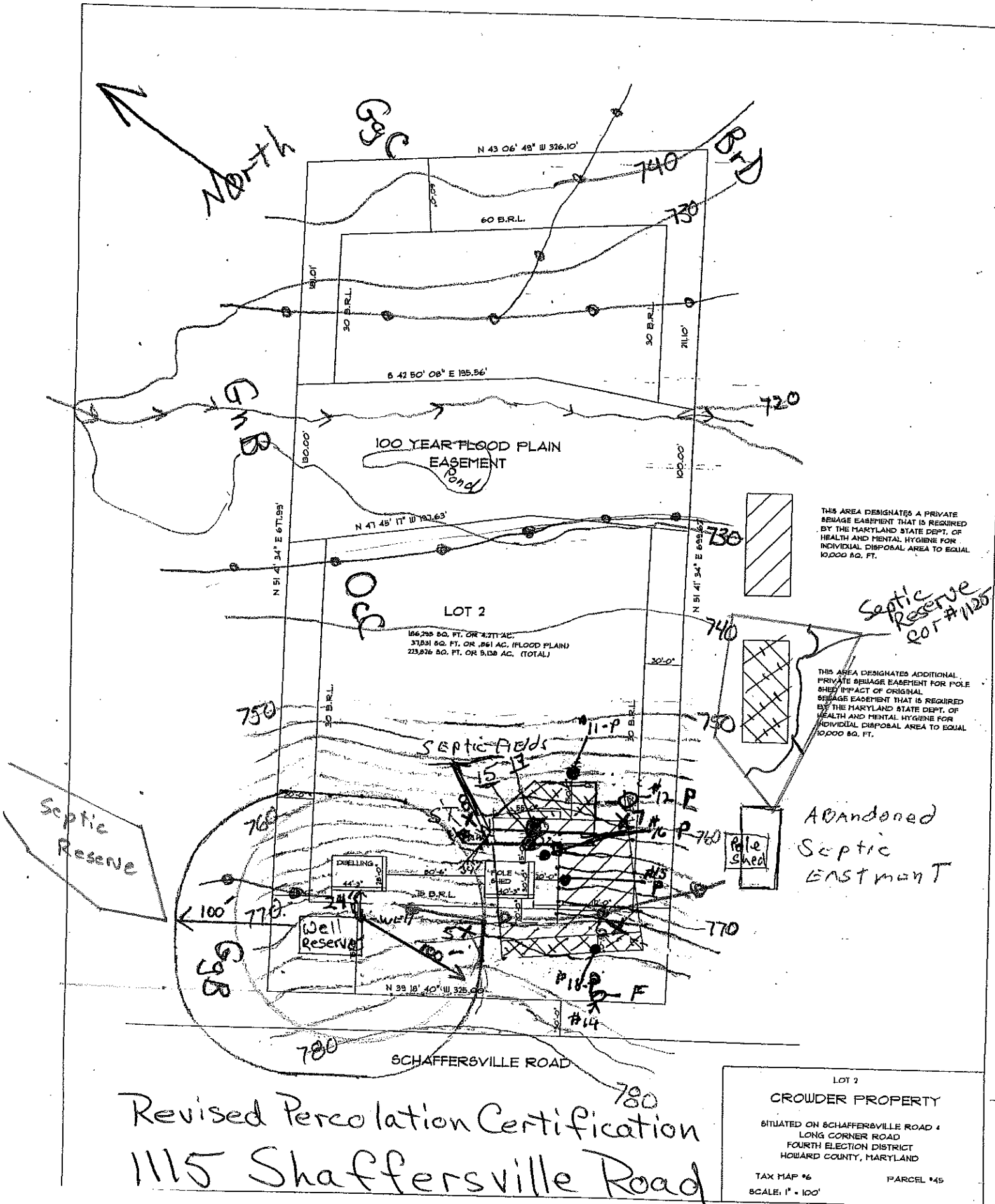
APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.

B. Wipperfurth for Peter Bilanson
SIGNATURE

8/12/2009
DATE

(OWNER)
E.D. Simpson
1115 Shaffersville Rd.
Mount Airy Md. 21771
#301 831-7635

perk TEST - ● with # ● P-FOR PASS
OF-FOR FAIL
W = WELL
⊗ Trench exposed
— Soil line
→ Stream



Revised Percolation Certification
1115 Shaffersville Road

PC 530951



Howard County
Health Department

Bureau of Environmental Health
7178 Columbia 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

October 13, 2009

Mr. Edward J. Simpson
1115 Shaffersville Road
Mount Airy, MD 21771

RE: **Variance Approval**
1115 Shaffersville Road
Mount Airy, MD 21771

Dear Sir:

This letter is being issued as follow up to the Health Department's verbal approval of your waiver request. The Health Department has received your waiver request for the above referenced property. This agency grants **approval** of the waiver to allow the existing trench to remain in use for the portion that is fifteen (15) feet or more from the proposed pole barn. Approval of a building permit will be granted by this Department provided that the site plan submitted with the building permit application is consistent with the site plan approved under this variance. Any deviations from the site plan submitted with the request will be subject to further review by this Department.

Any questions regarding this decision may be directed to the Well and Septic Program of the Howard County Health Department.

Respectfully,

Michael J. Davis, R.S.
Assistant Director
Bureau of Environmental Health

c: File

To Sara Sappington
on THE N.E side of the pole Barn
AT 15' WE FOUND THE FIRST FIELD
(Trench) I am Requesting A VARIANCE
From THE 20 FOOT Requirement to Allow
THE Existing trench to Remain

Thankyou
E.J. Simpson
EDWARD J SIMPSON
1115 Shaffersville Rd
MOUNT AIRY MD
21771

2/26/08
Approved
M.J. Davis

SITE INSPECTION SHEET

OWNER: Eddie Simpson PHONE #: _____

ADDRESS: _____ CONTRACTOR: _____

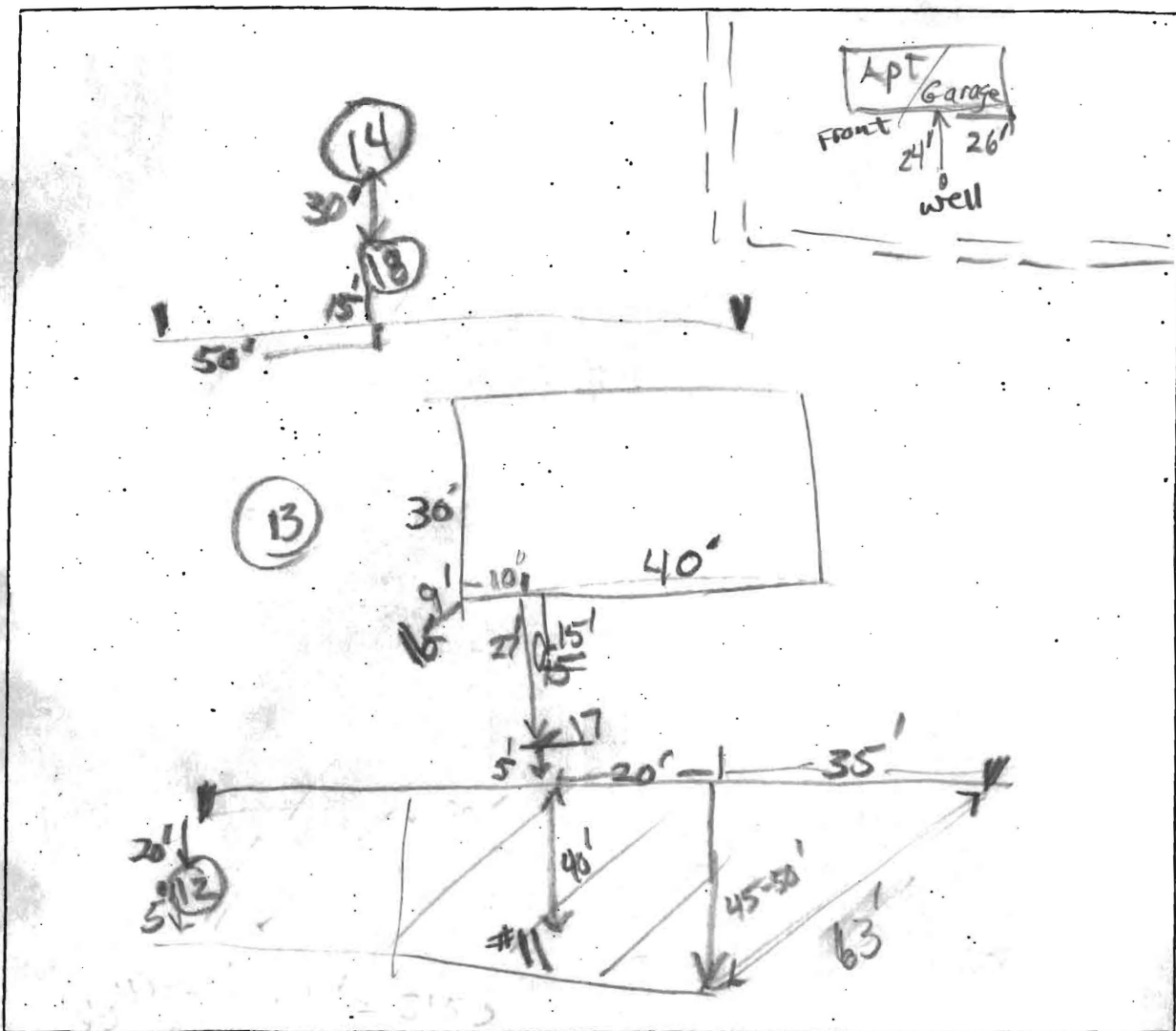
Mt. Airy, MD

WELL TAG #: H0-81-1642 ^{1 pc metal cap}
^{conduit snug}
^{13' tall casing}

SUBDIVISION: _____ LOT: _____ COUNTY #: _____

PROPOSAL: 3000 sq. ft. easement lost for Pole Barn; replace area

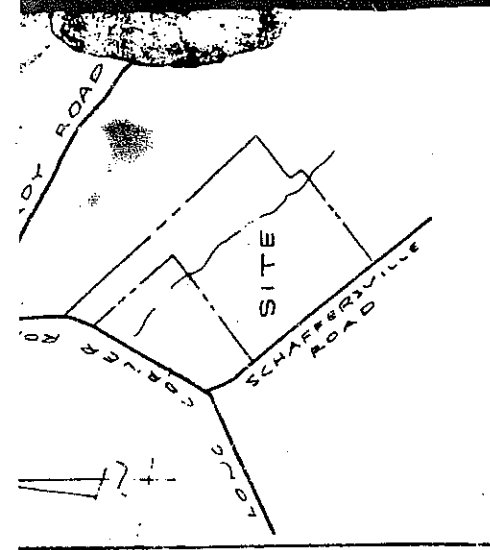
LOCATION DIAGRAM



50
60

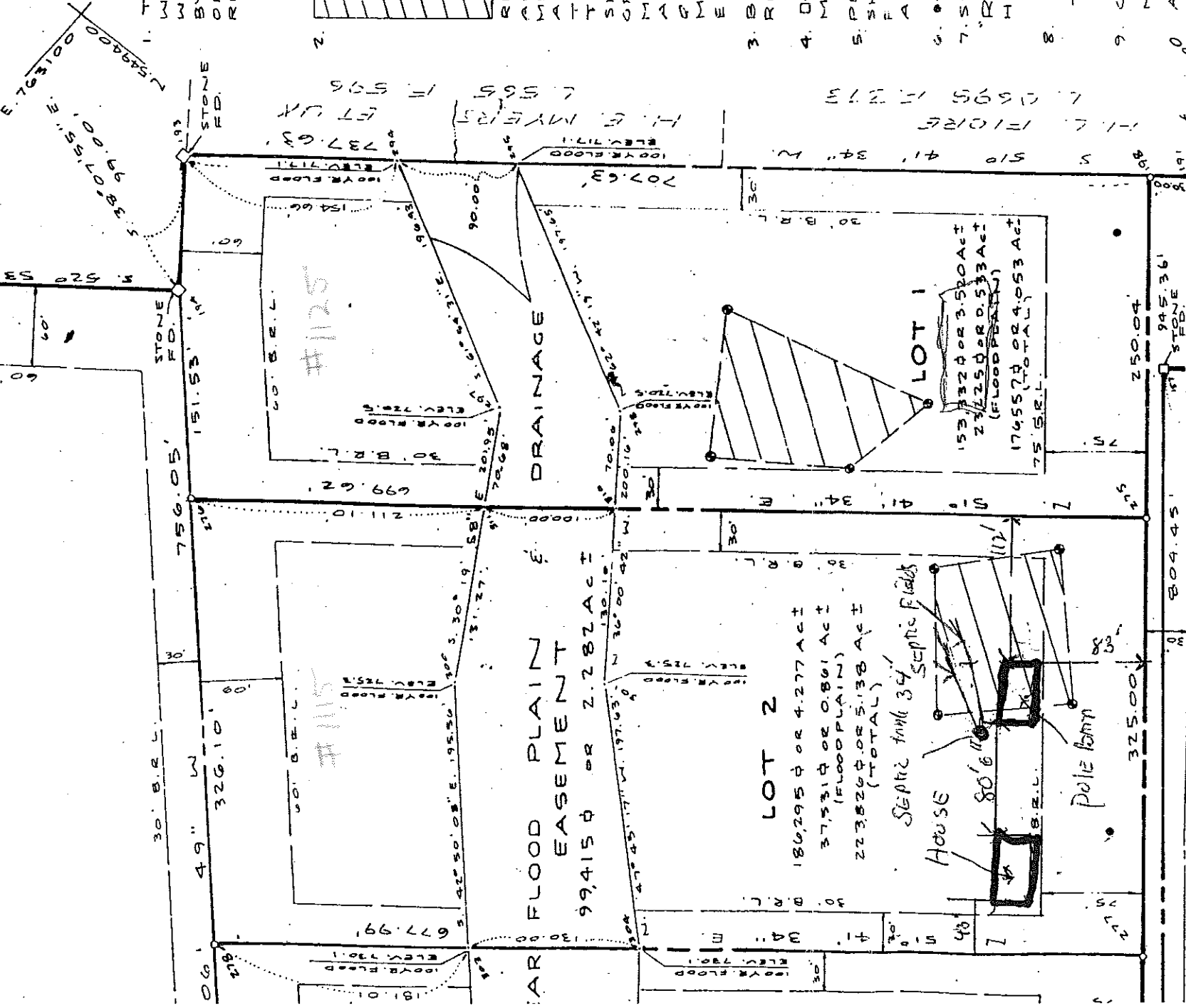
3000

COMMENTS: #15 Top of gravel (grey, clean) 3' (15' fill); #17 Top of gravel 3' (grey, clean) (15' fill)



VICINITY MAP
SCALE: 1"=1200'
T.M. 6
PARCEL 45

LOT 4
517,408 sq ft OR 11.878 Act
7,174 sq ft OR 0.165 Act (FLOODPLAIN)
524,582 sq ft OR 12.043 Act (TOTAL)

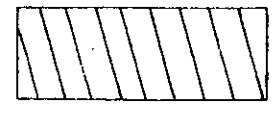


SHAFFERSVILLE ROAD
60' R/W

SURVEYORS CERTIFICATION
I HEREBY CERTIFY THAT THE FINAL PLAN SHOWN HEREON IS CORRECT AND THAT IT IS A SUBDIVISION OF ALL THE LANDS CONVEYED BY JOHN C. KELLER AND JEAN C. KELLER TO ESSETT, CROWDER AND GRACE E. CROWDER BY DEED DATED SEPTEMBER 19, 1961 AND RECORDED IN THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN LIBER 373, FOLIO 148 AND THAT ALL MONUMENTS ARE IN PLACE PRIOR TO THE ACCEPTANCE OF THE STREETS IN THE SUBDIVISION BY HOWARD COUNTY AS SHOWN IN ACCORDANCE WITH THE ANNOTATED CODE OF MARYLAND, AS AMENDED.

1105
Shaffersville Rd
Well 288' from scale
prop line
1125 Shaffersville
Well 246'

1. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPT. OF HEALTH AND MENTAL HYGIENE REGULATIONS.



2. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPT. OF HEALTH AND MENTAL HYGIENE 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 VARIANCES FOR EMBROACHMENTS INTO THE PRIVATE SEWERAGE EASEMENT. RECONSTRUCTION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.

3. B.R.L. REPRESENTS BUILDING RESTRICTION LINES.

4. DIMENSIONS CONCRETE MONUMENT, (UNLESS OTHERWISE NOTED)

5. PERCOLATION TEST HOLES SHOWN HEREON HAVE BEEN FIELD LOCATED AND SHOWN AS 6.

6. INDICATES PROPOSED WELL SUBJECT PROPERTY ZONED "R" PER 8-2-85 COMPREHENSIVE ZONING PLAN.

8. EXISTING STRUCTURES LOCATED ON LOT 4.

9. COORDINATES ARE IN MARYLAND STATE GRID, AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL

STA. N.P. 3828005

STA. N.P. 3828004

PIPE

CURVE DATA

PT. TO PT. 204 TO 205
RADIUS 530.00'
ARC 183.17'
TANGENT 19°48'04"
CHD. BRG. 92.51'
CHD. BRG. N. 17°41'05" E

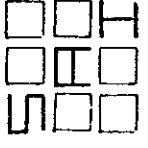
RECORDED PLAN 6560

ON 12-31-1985 AMONG THE LAND RECORDS OF HOWARD COUNTY MD.

LOTS 1-4

CROWDER PROPERTY

SITUATED ON SHAFFERSVILLE ROAD &
LONG CORNER ROAD
FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND SEPTEMBER, 1985



SHELADIA Associates, Inc.
CONSULTING ENGINEERS
310 A South Main Street, Mt. Airy MD. 21771
(301) 824-2890

TAX MAP NO. 6

PARCEL N.P. 45