

- GENERAL NOTES:
- OWNERS: HARRY W. REINHARDT CHRISTINE REINHARDT
DEED REFERENCE: LIBER 1520 FOLIO 67
DATE: AUGUST 15, 1986
GRANTOR: CHARLES E. PAYNE
 - TAX MAP: 6 GRID: 3 PARCEL: 124
 - NEAREST POTABLE WATER SUPPLY: MT. AIRY DISTANCE: 1 MILE ±
 - THERE IS NO FLOOD HAZARD (100 YEAR FLOOD PLAIN) LOCATED ON THIS PROPERTY ACCORDING TO FEMA FLOOD INSURANCE RATE MAP, COMMUNITY PANEL# 240044 0008 B, REVISED DECEMBER 4, 1986
 - TOPOGRAPHY: HOWARD COUNTY DATUM CONTOUR INTERVAL IS 2 FEET. FIELD SPOT-CHECKED BY VANMAR ASSOCIATES.
 - THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HEREON.
 - THE EXISTING WELL(S) SHOWN ON THIS PLAN HO-73-3963 HAS BEEN FIELD LOCATED BY VANMAR ASSOCIATES, INC. AND ACCURATELY SHOWN.
 - SOIL TYPE: (G2, G42, Lh2, LhC2, LhD2, LoE, M2C) HOWARD COUNTY SOILS MAP No. 1.
 - ZONING DISTRICT: R200D
 - ALL WELLS TO BE DRILLED PRIOR TO SUBMITTAL OF THE FINAL PLAT FOR SIGNATURE IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO THE FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS-UP THE HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
 - THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREAS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
 - THE MAXIMUM NUMBER OF BEDROOMS FOR REMAINING PROPERTY = 3 BDRMS.
 - THE MAXIMUM NUMBER OF BEDROOMS FOR LOT 1 = 3 BDRMS
 - ANY CHANGES TO A PRIVATE SEPTIC AREA WILL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 - THE MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED A VARIANCE TO ALLOW ON-SITE SEWAGE DISPOSAL AREAS FOR LOT 1 TO BE UP GRADIENT OF PRIVATE WATER SUPPLIES.

THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL.

IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

PROPOSED PERCOLATION TEST SITE: ⊕
(PASSED) PERCOLATION TEST SITE: ⊙
(FAILED) PERCOLATION TEST SITE: ⊛

EXISTING WELL: ●
PROPOSED HOUSE SITE: ⊠
PROPOSED WELL SITE: ⊙
25% SLOPES: ▨

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

B. Wilson
HOWARD COUNTY HEALTH OFFICER 55 DATE 11/25/08

MCS (NAD83/91)

OWNERS:
HARRY W. REINHARDT
CHRISTINE REINHARDT
18571 PENN SHOP ROAD
MT. AIRY, MD. 21771

DATE	REVISIONS	DATE	REVISIONS
11/7/08	Per Comments	2/13/06	Septic area added
		10/31/07	Revised layout
		12/10/07	Per Comments
		2/14/08	Per Comments
		07/14/08	Revised layout
		09/18/08	Per Results
		10/18/08	Per 10/8/08 review

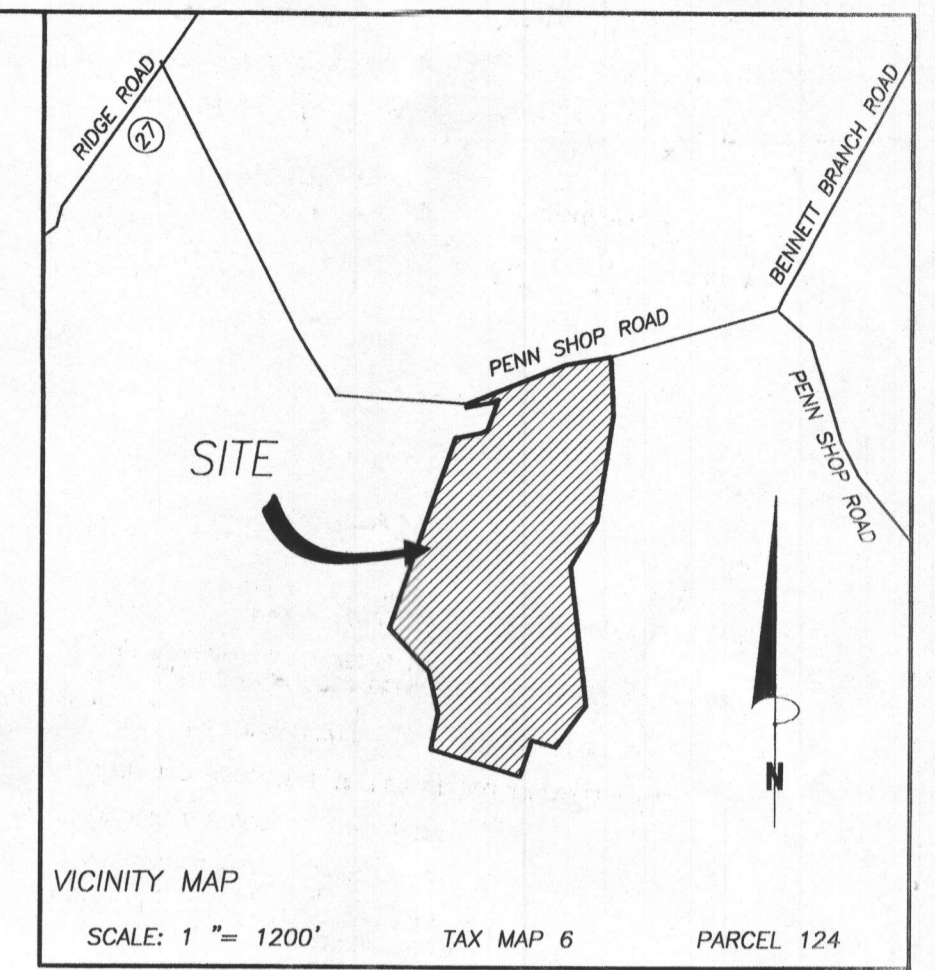
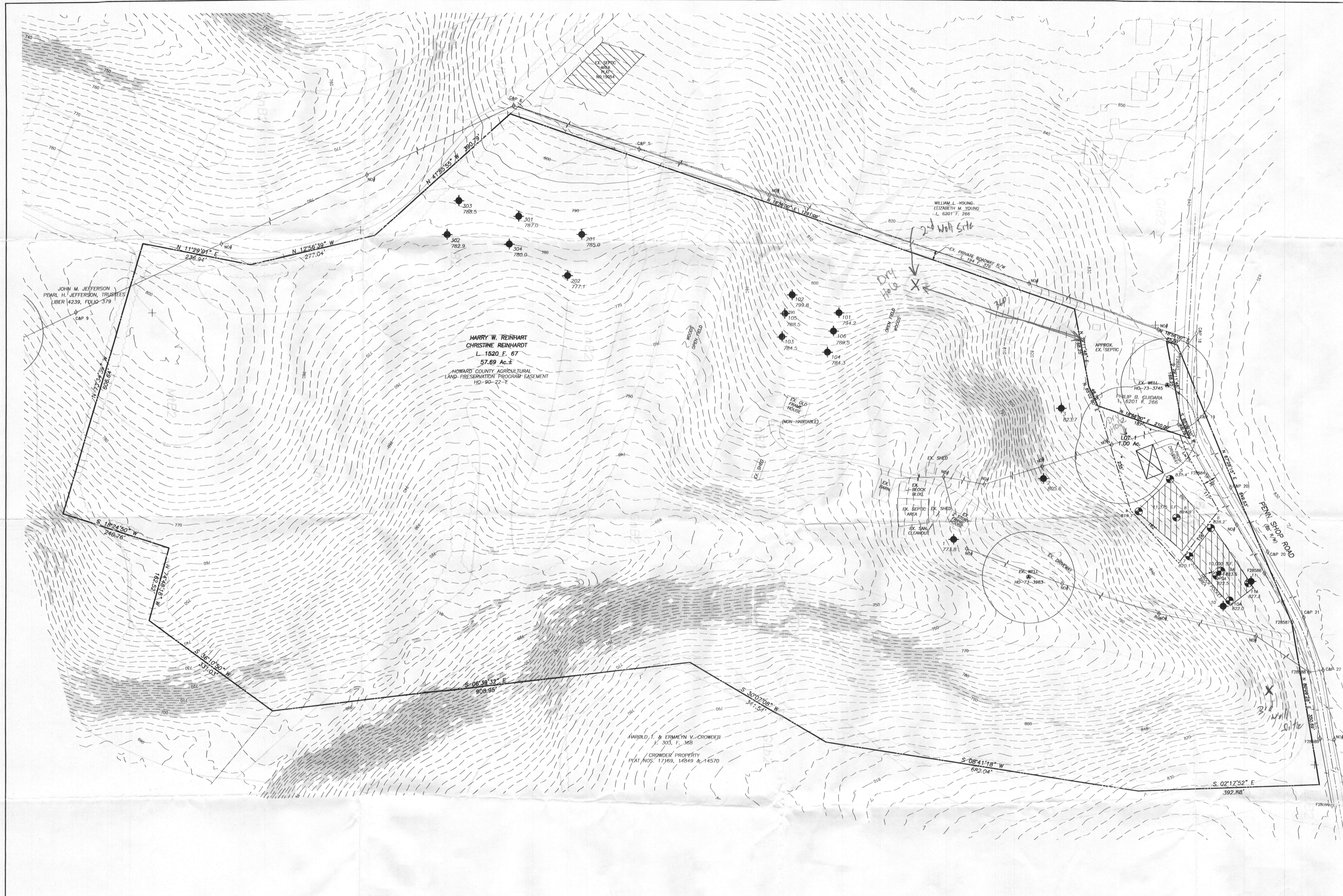
I HEREBY CERTIFY THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100 FEET OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HEREON.
I FURTHER CERTIFY THAT THE PERCOLATION TEST HOLES HAVE BEEN FIELD LOCATED IF EXISTING AND ACCURATELY STAKED IF PROPOSED AND SHOWN HEREON.

Thomas L. Frazier, Jr. 11/7/08
THOMAS L. FRAZIER, JR., PROF. L. S., MD. REG. #21097 DATE

PERCOLATION CERTIFICATION PLAT
REINHARDT PROPERTY

LIBER 1520 FOLIO 67
SITUATED ON PENN SHOP ROAD
ELECTION DISTRICT No. 4
HOWARD COUNTY, MARYLAND
SCALE: 1" = 100' OCTOBER 2007

VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street P.O. Box 338 Mount Airy, Maryland 21771
(301) 839 2890 (301)851 5015 (410) 549 2751



- GENERAL NOTES:
- OWNERS: HARRY W. REINHARDT CHRISTINE REINHARDT
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 - NEAREST POTABLE WATER SUPPLY: MT. AIRY DISTANCE: 1 MILE ±
 - THERE IS NO FLOOD HAZARD (100 YEAR FLOOD PLAIN) LOCATED ON THIS PROPERTY ACCORDING TO FEMA FLOOD INSURANCE RATE MAP, COMMUNITY PANEL 24004A 0006 B, REVISED DECEMBER 4, 1986
 - TOPOGRAPHY: HOWARD COUNTY DATUM CONTOUR INTERVAL IS 2 FEET, FIELD SPOT-CHECKED BY VANMAR ASSOCIATES.
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 - THE EXISTING WELL(S) SHOWN ON THIS PLAN HO-73-3963 HAS BEEN FIELD LOCATED BY VANMAR ASSOCIATES, INC. AND ACCURATELY SHOWN.
 - SOIL TYPE: (GB2, GB22, Lh2, Lh22, Lh22, Lh2, Lh2, Lh2) HOWARD COUNTY SOILS MAP No. 1.
 - ZONING DISTRICT: RC200
 - ALL WELLS TO BE DRILLED PRIOR TO SUBMITTAL OF THE FINAL PLAT FOR SIGNATURE IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO THE FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS-UP THE HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
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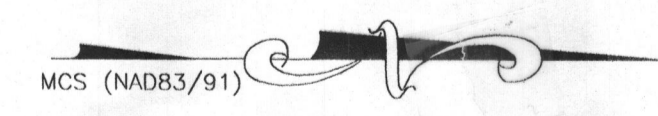
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25% SLOPES: ▭

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

Barbara Peter Bidelson 11/25/08
DATE 11/25/08

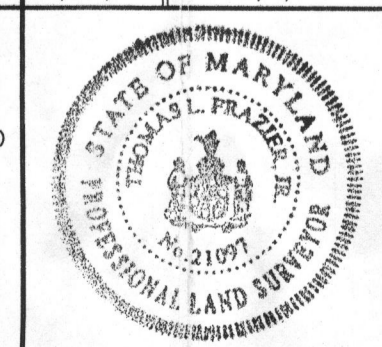


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		07/14/08	Revised layout
		08/19/08	Per Results
		10/18/08	Per 10/8/08 review

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Thomas L. Frazier, Jr. 11/7/08
THOMAS L. FRAZIER, JR., PROF. L. S., MD. REG. #21087 DATE

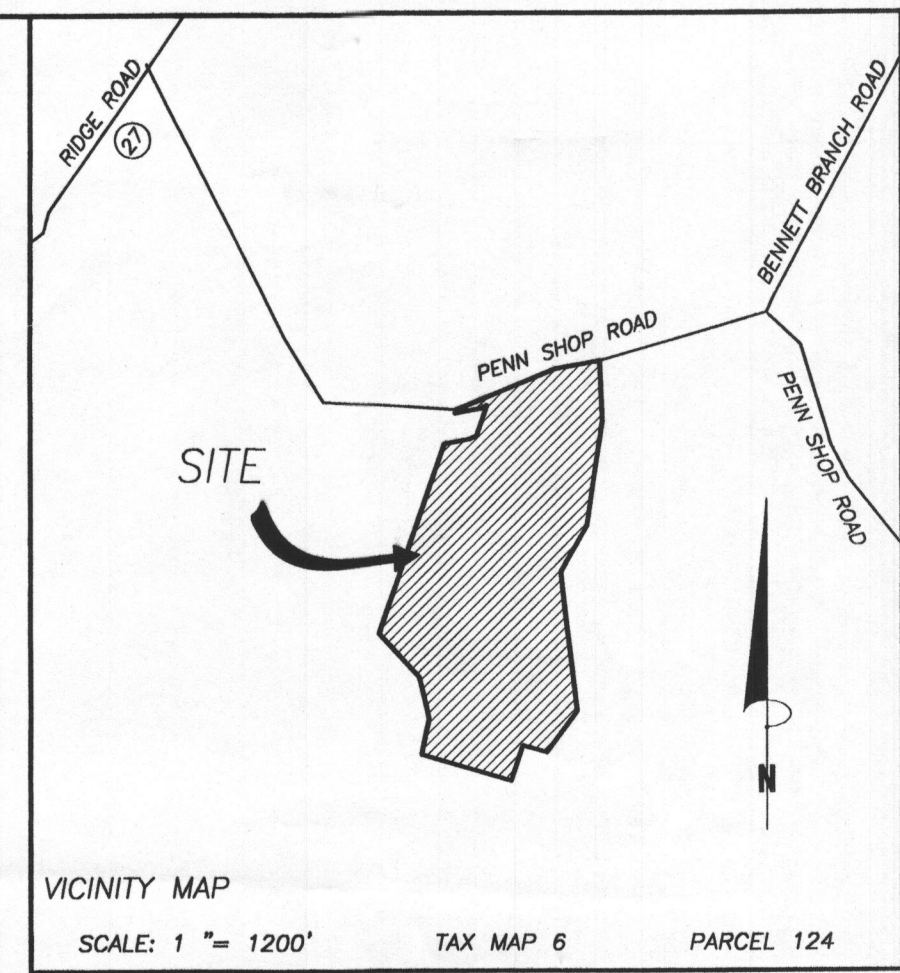
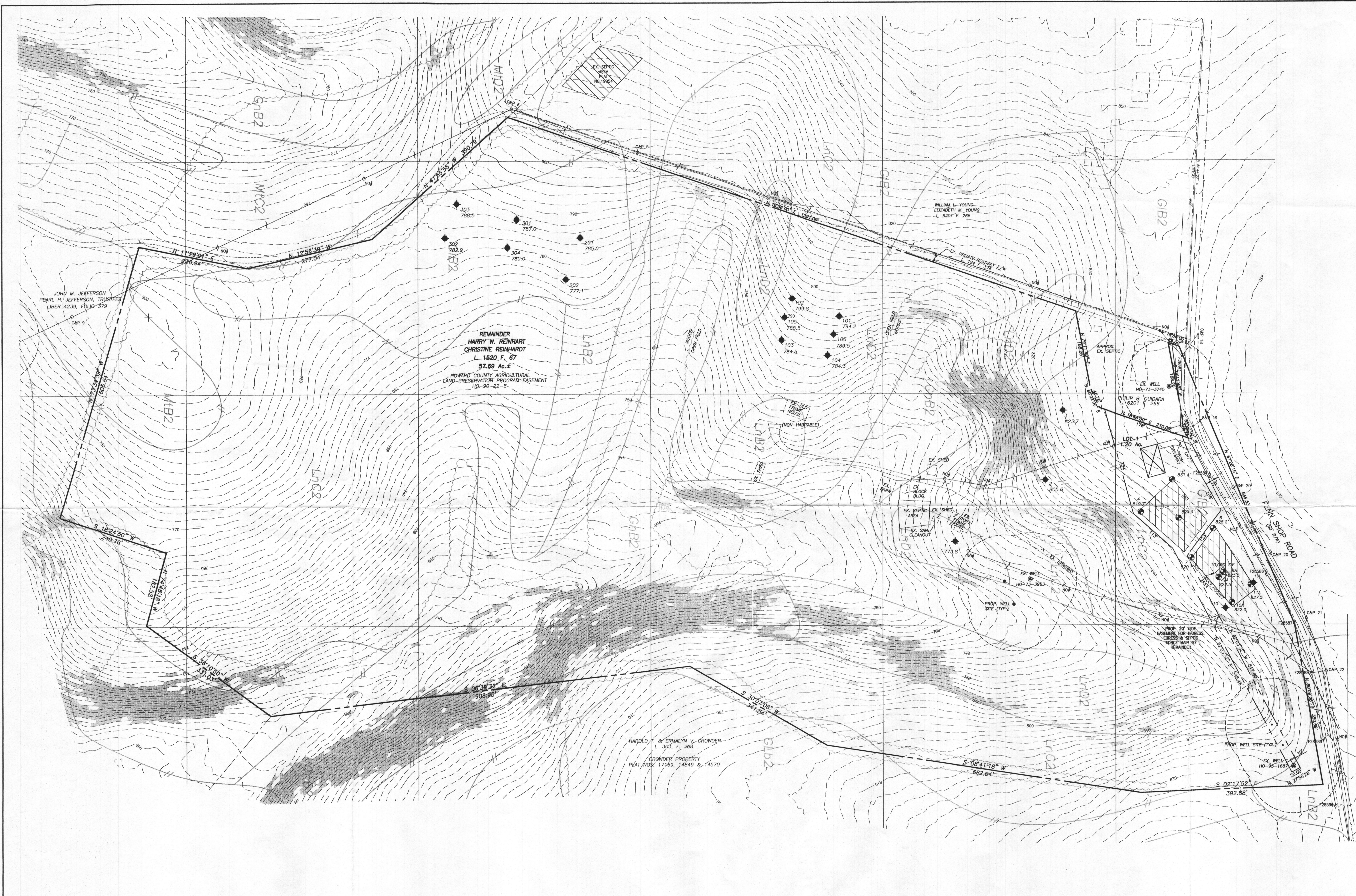


PERCOLATION CERTIFICATION PLAT
REINHARDT PROPERTY

LIBER 1520 FOLIO 67

SITUATED ON PENN SHOP ROAD
ELECTION DISTRICT No. 4
HOWARD COUNTY, MARYLAND
SCALE: 1" = 100' OCTOBER 2007

VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street P.O. Box 328 Mount Airy, Maryland 21771
(301) 828-2890 (301) 821-9015 (410) 548-2723



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 - SOIL TYPE: (GBZ, GbZ, LbZ, LcZ, LdZ, LoE, McZ) HOWARD COUNTY SOILS MAP No. 1.
 - ZONING DISTRICT: RODED
 - ALL WELLS TO BE DRILLED PRIOR TO SUBMITTAL OF THE FINAL PLAT FOR SIGNATURE. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO THE FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS-UP THE HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
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(FAILED) PERCOLATION TEST SITE:

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PROPOSED HOUSE SITE:

PROPOSED WELL SITE:

25% SLOPES:

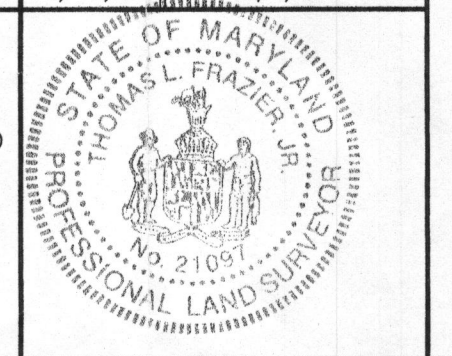
DATE	REVISIONS	DATE	REVISIONS
11/7/08	Per Comments	2/13/06	Septic area added
2/9/09	Prop. Well Lot 1	10/31/07	Revised layout
3/3/09	Ex. Well Lot 1	12/10/07	Per Comments
3/24/09	Per comments	2/4/08	Per Comments
4/22/09	Per comments	07/14/08	Revised layout
		09/18/08	Per Results
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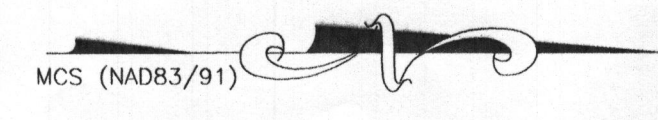
PERCOLATION CERTIFICATION PLAT
REINHARDT PROPERTY

LIBER 1520 FOLIO 67
SITUATED ON PENN SHOP ROAD
ELECTION DISTRICT No. 4
HOWARD COUNTY, MARYLAND
SCALE: 1" = 100' OCTOBER 2007

VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street 7th Floor 125 West Mount Airy, Maryland 21771
(301) 283 2890 (301)831 5015 (410) 549 2751

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

Richard R. Pister 11/18/2009
HOWARD COUNTY HEALTH OFFICER DATE



STORMWATER MANAGEMENT MAINTENANCE AGREEMENT & SCHEDULE

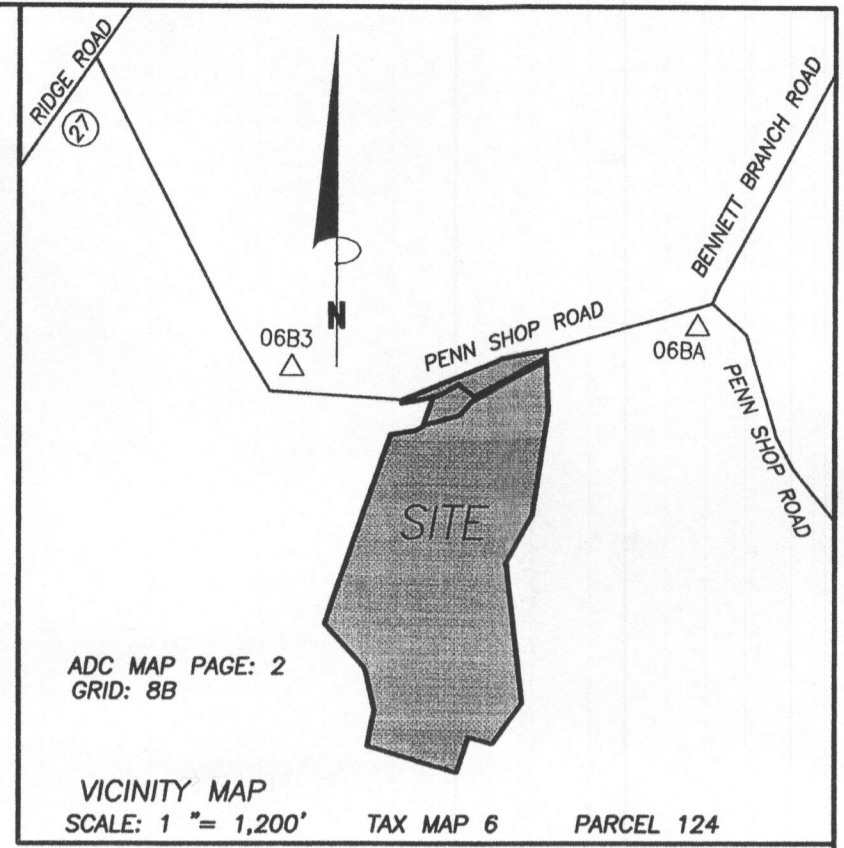
1. THE STORMWATER MANAGEMENT FACILITY/FACILITIES SHOWN ON THESE PLANS SHALL BE CONSTRUCTED AND MAINTAINED BY THE OWNER(S).
2. OWNER/HIS HEIRS OR ASSIGNS SHALL BE RESPONSIBLE FOR CONTINUING MAINTENANCE OF THE FACILITY/FACILITIES, WHICH SHALL INCLUDE SUCH ITEMS AS MOWING, CLEANING AND REMOVING SEEDS, TREES, SHRUBS AND WEEDS. THE TIME PERIOD FOR THIS CONTINUING MAINTENANCE SHALL BE ON "AS-NEEDED" BASIS BUT SHALL NOT BE LONGER THAN THIRTY (30) DAYS.
3. OWNER, HIS HEIRS OR ASSIGNS SHALL BE RESPONSIBLE FOR ANY STRUCTURAL DAMAGES OR FAILURE WHICH MAY OCCUR AS A RESULT OF NEGLIGENCE, ACCIDENT OR MISUSE. IN THE EVENT OF STRUCTURAL DAMAGE, OWNER SHALL BE RESPONSIBLE TO MAKE NECESSARY REPAIRS AS QUICKLY AS POSSIBLE BUT IN ANY CASE WITHIN THIRTY (30) DAYS.
4. IF AFTER NOTICE BY THE COUNTY/TOWN/CITY TO CORRECT A VIOLATION REQUIRING MAINTENANCE WORK, SATISFACTORY CORRECTIONS ARE NOT MADE BY THE OWNER(S) WITHIN (30) DAYS THE COUNTY/TOWN/CITY MAY PERFORM ALL NECESSARY WORK TO PLACE THE FACILITY IN PROPER WORKING CONDITION. THE OWNERS OF THE FACILITY SHALL BE ASSESSED THE COST OF THE WORK AND ANY PENALTIES. THESE MONIES SHALL BE COLLECTED FROM A BOND, WHICH THE DEVELOPER IS REQUIRED TO POST WITH THE COUNTY/TOWN/CITY TO COVER SUCH EXPENSES UNTIL "COMPLETION OF THE FACILITY". COMPLETION OF THE FACILITY IS CONSIDERED TO MEAN THAT ALL CONTRIBUTORY DRAINAGE AREAS ARE PAVED OR SUPPORTING A 2" STAND OF GRASS AND THAT THE CARROLL COUNTY BUREAU OF RESOURCE MANAGEMENT HAS INSPECTED CONSTRUCTION AND A REGISTERED PROFESSIONAL ENGINEER HAS CERTIFIED THAT THE "AS-BUILT" PLANS MEET THE PLANS AND SPECIFICATIONS FOR CONSTRUCTION. AFTER "COMPLETION OF THE FACILITY" THE OWNER(S) WILL BE ASSESSED FOR ANY WORK AND PENALTIES. THIS MAY BE ACCOMPLISHED BY PLACING A LIEN ON THE PROPERTY, WHICH MAY BE PLACED ON THE TAX BILL AND COLLECTED AS ORDINARY TAXES BY THE COUNTY/TOWN/CITY.
5. OWNER(S) SHALL GRANT RIGHT OF ENTRY TO AUTHORIZED COUNTY/TOWN/CITY PERSONNEL FOR PURPOSES OF INSPECTION, MONITORING AND/OR REPAIR. SITE VISITS FOR INSPECTION, MONITORING AND/OR REPAIR, SITE VISITS FOR INSPECTION AND/OR MONITORING SHALL BE CONDUCTED ONLY DURING NORMAL COUNTY WORKING HOURS (8:00 A.M. TO 5:00 P.M. MONDAY - FRIDAY).
6. THIS AGREEMENT INCLUDING RIGHT-OF-ENTRY FOR INSPECTION/MAINTENANCE AND REPAIR SHALL BE RECORDED BY THE APPLICANT AND/OR OWNER IN THE LAND RECORDS OF THE COUNTY.

DOWN SPOUT DRYWELL SEQUENCE OF CONSTRUCTION

1. ONCE THE INDIVIDUAL HOUSE HAS BEEN CONSTRUCTED AND THE FINAL LOT GRADING IS COMPLETE, CONTACT THE CERTIFYING PROFESSIONAL ENGINEER/PROFESSIONAL LAND SURVEYOR (SOURABH G. MUNSHI, P.E. AT 301-829-2890). ONCE THE CERTIFYING PROFESSIONAL HAS GIVEN HIS/HER APPROVAL, PROCEED AS FOLLOWS.
2. CONSTRUCT DRYWELL AND CONNECT TO DOWNSPOUT PER STANDARD DETAIL UNDER SUPERVISION OF CERTIFYING PROFESSIONAL.
3. SUBMIT AS-BUILT CERTIFICATION FOR BOND RELEASE.

CURVE DATA						
CURVE	RADIUS	ARC LENGTH	DELTA ANGLE	TANGENT	CHORD BEARING	CHORD LENGTH
CT1	330.00'	67.71'	11°45'20"	33.97'	S 65°51'20" W	67.59'

Drainage Area	Rev	WQv	CPv	Qp10	Qp100
1	0.02 Ac	0.02 Ac-ft	N/A	N/A	N/A
0.08 Ac treated via Rooftop and Non-rooftop Disconnection Credits		Net Imp. Area reduced to zero via Rooftop (drywells) and Non-rooftop Disconnection Credits - No structural BMP Proposed			



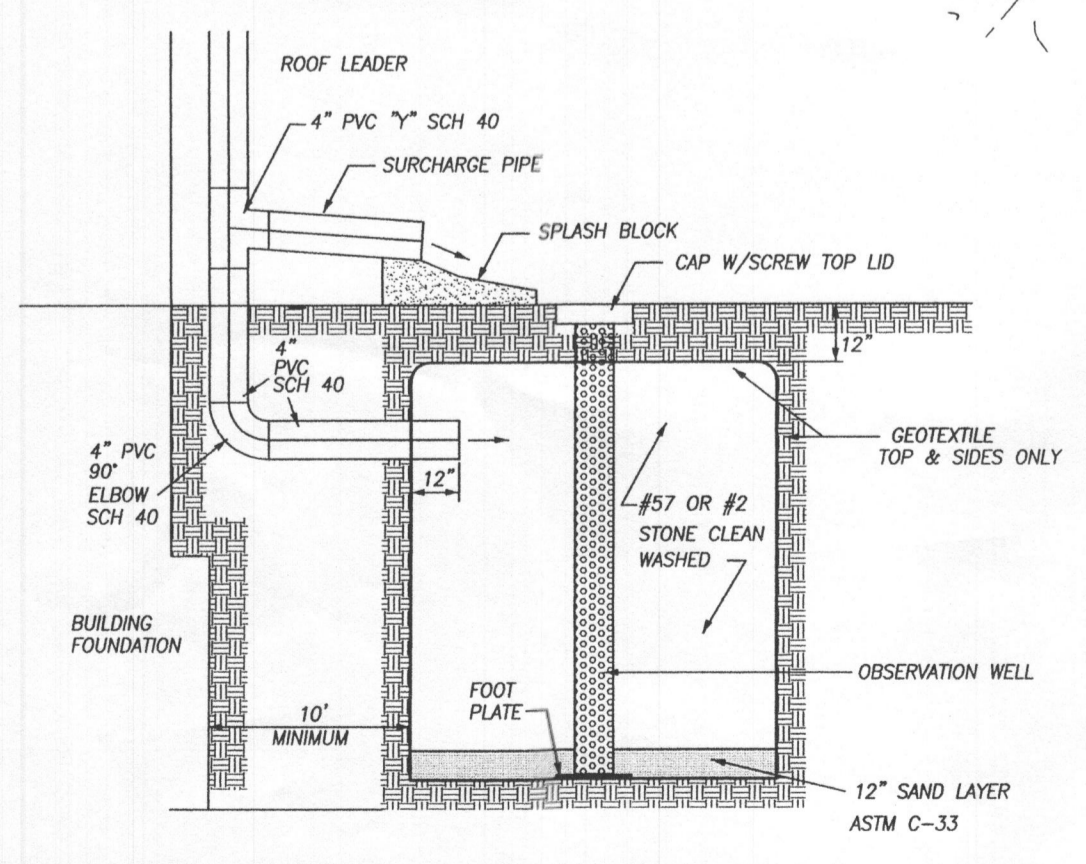
Water Quality requirements are addressed via Rooftop and Non-rooftop disconnections.

CPv is not required due to the 1-year Post-developed peak discharge being less than 2cfs. (0.41cfs)

Qp & Qf are not provided because the increase in post developed peak discharge is too small to have any negative impacts on adjacent properties.

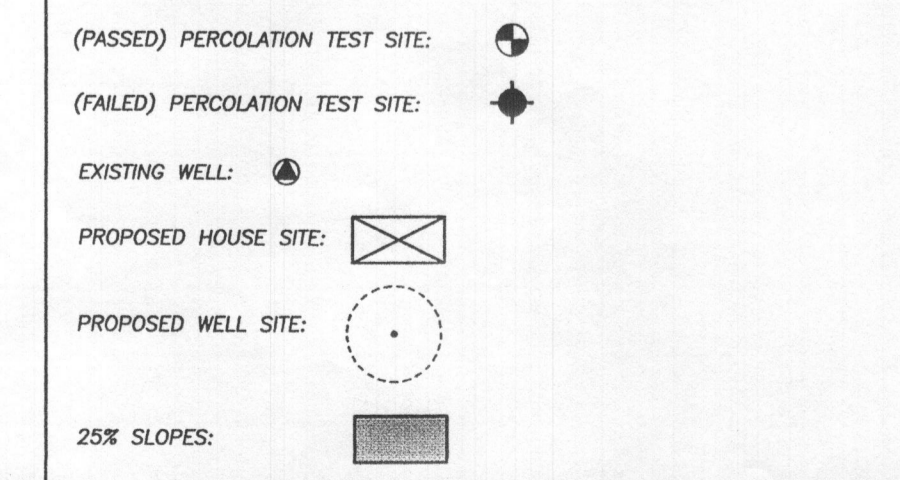
GENERAL NOTES:

1. OWNERS: HARRY W. REINHARDT CHRISTINE REINHARDT DEED REFERENCE: LIBER 1520 FOLIO 67 DATE: AUGUST 15, 1986 GRANTEE: CHARLES E. PAYNE
2. TAX MAP: 6 GRID: 3 PARCEL: 124
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6. THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HEREON.
7. THE EXISTING WELLS(S) SHOWN ON THIS PLAN HD-73-3863 AND HD-05-1687 HAVE BEEN FIELD LOCATED BY VANMAR ASSOCIATES, INC. AND ACCURATELY SHOWN.
8. SOIL TYPE: (GIB2, GNB2, LNB2, LNC2, LOE, MB2, MNC2) HOWARD COUNTY SOILS MAP No. 1.
9. ZONING DISTRICT: RCDED
10. ALL WELLS TO BE DRILLED PRIOR TO SUBMITTAL OF THE FINAL PLAT FOR SIGNATURE. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO THE FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS-UP THE HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
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13. ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
14. TOPOGRAPHY ON SEWAGE DISPOSAL AREAS FIELD RUN BY VANMAR ASSOC., INC. CONTOUR INTERVALS ARE TWO FEET.

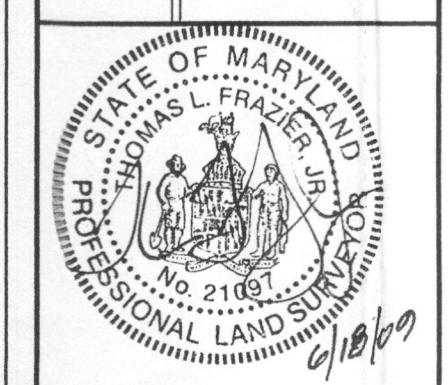


- NOTES:**
1. IF USING ONE DRYWELL FOR ENTIRE HOUSE THE STANDARD DRYWELL IS 10"x10"x5' WITH SAND FILLING THE BOTTOM FOOT. THIS PROVIDES ADEQUATE STORMWATER CONTROL FOR 2000 SQUARE FEET OF ROOFTOP.
 2. MINIMUM SETBACKS:
A. 100 FT FROM WELLS
B. 25 FT FROM SEPTIC AREAS
C. 10 FT FROM BUILDINGS
 3. FROM THE DOWNSPOUT TO THE DRYWELL THE DRAIN PIPE MUST BE AT LEAST 6" BELOW GRADE.
 4. THE LOCATIONS AND SIZE OF ALL DRYWELLS MUST BE SHOWN IN THE GRADING PLOT PLAN.

SOIL TYPE	SYMBOL	LAND CAPABILITY	Kw	SLOPE %	HYDRIC?	HYDROLOGIC SOIL GROUP
Glenelg Loam, Moderately Eroded	GIB2	2e	.32	3-8%	NO	B
Glenville Silt Loam, Moderately Eroded	GnB2	IIe-3	>.35	3-8%	INCLUSIONS	C
Linganore Channery Loam, Moderately Eroded	LnB2	3e-10	.37	3-8%	NO	B
Linganore Channery Loam, Moderately Eroded	LnC2	4e-10	.37	8-15%	NO	B
Linganore Channery Loam, Moderately Eroded	LnD2	6e-3	.37	8-15%	NO	B
Linganore Channery Silt Loam, Moderately Eroded	LoE	7e-3	.24	25-45%	NO	B
Mt. Airy Channery Loam, Moderately Eroded	MB2	3e-10	.37	3-8%	NO	B
Mt. Airy Channery Loam, Moderately Eroded	MNC2	IVe-10	<.35	8-15%	NO	A



DATE	REVISIONS



SUPPLEMENTAL PLAN
TOPOGRAPHY / SOILS / GRADING / SWM EXHIBIT
REINHARDT PROPERTY

LIBER 1520 FOLIO 67
 SITUATED ON PENN SHOP ROAD
 ELECTION DISTRICT No. 4
 HOWARD COUNTY, MARYLAND
 SCALE: 1" = 100' JUNE, 2009

VANMAR ASSOCIATES, INC.
 Engineers Surveyors Planners
 310 South Main Street Mount Airy, Maryland 21771
 (301) 829-2890 (301) 831-5015 (410) 549-2751
 Fax (301) 831-5603 ©Copyright, Latest Date Shown