

# PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 513555

A 43251

DISTRICT \_\_\_\_\_

DATE 4/21/00

DATE SYSTEM APPROVED 5/24/00

INSPECTOR All

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
~~XXXXXXX~~ 410-313-2640

INDEXED

William H. Smith, Jr. Fogle's IS PERMITTED TO INSTALL  ALTER \_\_\_\_\_

ADDRESS P.O. Box 330, Forest Hill, MD 21050 PHONE 410-879-7641

SUBDIVISION Cattail Creek Country Club LOT 8 ROAD 3644 Broadleaf Court

PROPERTY OWNER Anthony Torano

ADDRESS Glenwood MD 21738

SEPTIC TANK CAPACITY 1500 GALLONS

NUMBER OF BEDROOMS 5

210 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 350

TRENCHES - Trench to be 3 feet wide. Inlet <sup>6.0</sup> 4 feet below original grade. Bottom maximum depth 8.0 feet below original grade. Effective area begins at 4 feet below original grade. 2 feet of stone below distribution pipe.

LOCATION - Place the distribution box 120 feet off the front lot line and 145 feet off the left lot line as seen from Broadleaf Court. Run trenches along contour in both directions.

NOTES - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. 3/25/99 OK AU

PLANS APPROVED BY Donna K. Soe DATE 3-23-1999

COVER NO WORK UNTIL INSPECTED AND APPROVED

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM

NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS. 90° ELBOWS NOT ACCEPTABLE.

NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E. TANK, DISTRIBUTION BOX TRENCHES) TO BE 100 FEET FROM WELL (UNLESS OTHERWISE SPECIFICALLY AUTHORIZED)

NOTE: IF DEEP TRENCH(ES) ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH(ES)

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 35/40 PVC OR ABS

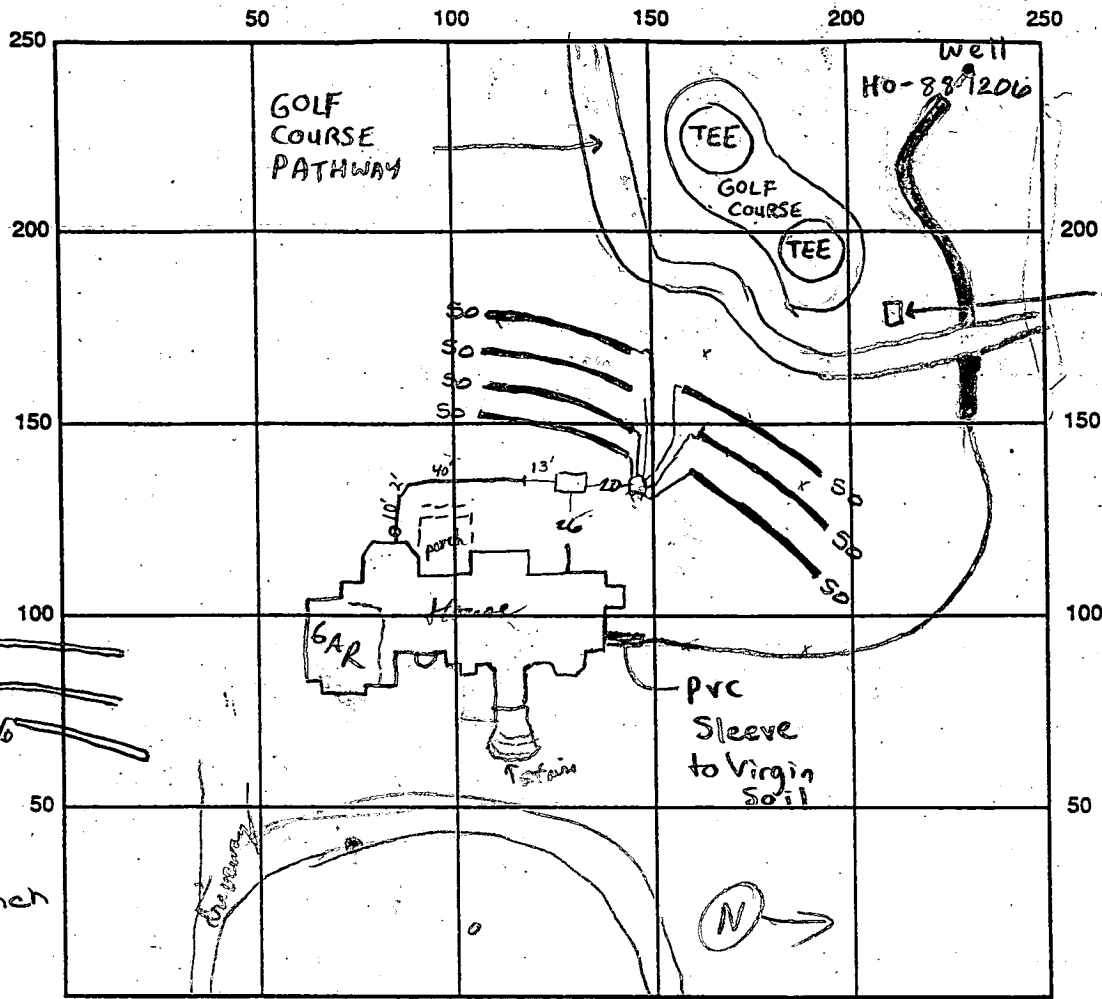
PERMIT VOID AFTER TWO YEARS

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON. CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET. MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

**\*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT**

43251



Broadleaf Ct INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL 2000 gal Midswall (7'9" inside depth) 5'10" x 8' CLEANOUTS

DISTRIBUTION BOX LEVEL OK baffles 13 in

TILE DRAIN FIELD/TRENCH DEPTH 8.0 FT. TRENCH WIDTH 3.0 FT. INLET DEPTH 6.0 FT.

EFFECTIVE GRAVEL DEPTH 2.0 FT. TOTAL LENGTH 350 FT.

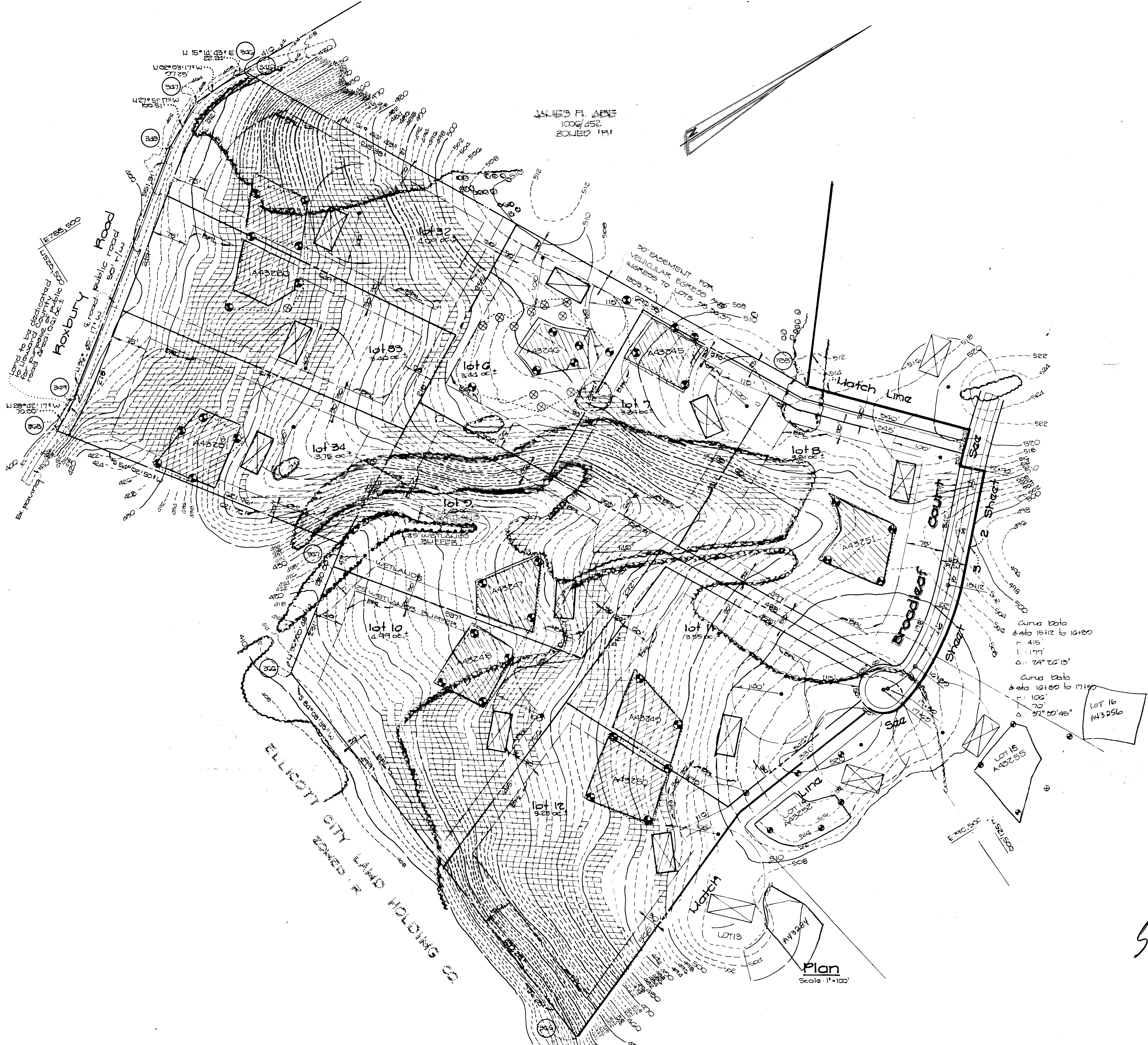
NUMBER OF TRENCHES 7 ONE SIDEWALL/BOTTOM AREA 1050 SQ. FT.

DRYWALL INSIDE DIAMETER — FT. EFFECTIVE DEPTH BELOW INLET 2.0 FT.

ABSORBENT AREA — SQ. FT.

REMARKS: S.T. Hole Dig, part of sch 40 pipe laid. @ Stake out only, S.D.A. left for 2 full contents - Need to move tank for  
House connection OK to lower, OK Set. S.T. 6/6/00 S.T. OK 6/6/00 at the 4000 gal tank - TC & Allen  
6/6/00 - WPI DISAPPROVED, NO TAG, CASING NOT 8" ABOVE EX. GRADE, NOT OPEN AT  
HOUSE, LETTERS SENT (SRW) 6/7/00 - WPI OK, CASING & TAG ISSUES REMAIN (SRW)  
7/20/00 well casing extended, repl. well tag attached. JS

DATE SYSTEM APPROVED 5/24/00 INSPECTOR A. McMillan



JAMES P. ABE  
1006/452  
ZONED 141

**LEGEND:**

- APPROXIMATE 100 YEAR FLOODPLAIN
- WETLANDS
- SLOPES 15% TO 24%
- SLOPES 25% OR GREATER
- PASSED PERC TEST
- FAILED PERC TEST
- PROPOSED WELL LOCATION
- PROPOSED HOUSE LOCATION
- PROPOSED PRIVATE SEWAGE DISPOSAL EASEMENT

Curve Data  
data 15112 to 16100  
R = 415'  
L = 177'  
Δ = 24° 26' 15"

Curve Data  
data 16100 to 17150  
R = 100'  
L = 70'  
Δ = 27° 50' 45"

APPROVED FOR PRIVATE WATER AND PRIVATE SEWER,  
HOWARD COUNTY HEALTH DEPARTMENT

*James P. Abe*  
COUNTY HEALTH OFFICER DATE 7/19/89

*Signed*

TENTATIVELY APPROVED ON July 24, 1989  
OFFICE OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND  
*Charles Carter* 7/19/89  
PLANNING DIRECTOR CO DATE

SDA's in pencil as shown on final plat  
5-6-92 JEW  
LOTS 1-34

**SYCAMORE VALLEY**

FOURTH ELECTION DIST. HOWARD CO., MARYLAND  
TAX MAP: 21 GRID: 9, 10, 15 AND 16 PARCEL: 6  
DATE: APRIL 18, 1989 SCALE: AS SHOWN  
SHEET 1 OF 1

**FISHER, COLLINS & CARTER, ILLC.**  
CIVIL ENGINEERS & LAND SURVEYORS  
8388 COURT AVENUE  
ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: (301) 421-2855

OWNER AND DEVELOPER  
**SYCAMORE VALLEY PARTNERSHIP**  
LAND DESIGN AND DEVELOPMENT, INC  
8307 MAIN STREET  
ELLICOTT CITY, MD 21043

*Charles Carter*

7/19/89

P-89-72

**CONSTRUCTION PERMIT.**

1. CONTROLS AS SHOWN ON PLAN. (1 day)  
 2. GRADING AND STABILIZE THE SITE. (2 days)  
 3. LING ON SITE. (90 days)

IF STABILIZED AND PERMISSION IS GRANTED FROM NTRIL INSPECTOR, REMOVE SEDIMENT CONTROLS BY REMAINING DISTURBED AREAS.

**NOTES**  
 1. CLEARED AREAS LIKELY TO BE REDISTURBED BY SHORT-TERM VEGETATIVE COVER IS NEEDED.

**CONSTRUCTION**  
 1. THREE INCHES OF SOIL BY RAKING, DISCING ACCEPTABLE MEANS BEFORE SEEDING.  
 2. USUALLY LOOSENEED.

3. PER ACRE 10-10-10 FERTILIZER (4 LBS./1000 SQ. FT.)

4. FROM MARCH 1 THROUGH APRIL 30, AND AUGUST THROUGH NOVEMBER 15, SEED WITH 1/2 BUSHEL PER ANNUAL 1,000 SQ.FT. FOR THE PERIOD MAY 1 THRU AUGUST 14, 35/ACRE OF WEEPING LOVEGRASS (0.7 LBS./1000SQ.FT.).  
 5. FROM NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY 2NS PER ACRE OF WELL ANCHORED STRAW MULCH AND 1 AS POSSIBLE IN THE SPRING, OR USE SOO.

6. 2 TONS PER ACRE (70 TO 90 LBS./1,000 SQ.FT.) SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING.  
 7. IMMEDIATELY AFTER APPLICATION USING MULCH OL OR 210 GALLONS PER ACRE (5 GAL./1,000 SQ.FT.) ASPHALT ON FLAT ACRES, ON SLOPES 8 FEET OR HIGHER, 1ONS PER ACRE (8 GAL./1,000 SQ.FT.) FOR ANCHORING.

8. 1986 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

**NOTES**  
 1. AS SHALL BE STABILIZED AS FOLLOWS:

**CONSTRUCTION**  
 1. THREE INCHES OF SOIL BY RAKING, DISCING ACCEPTABLE MEANS BEFORE SEEDING.

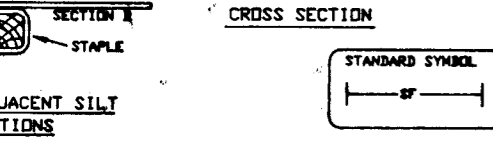
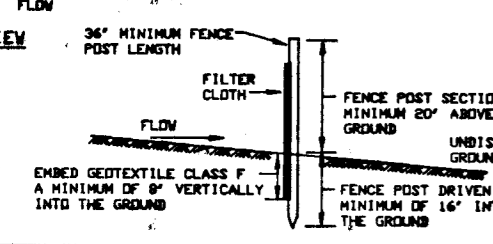
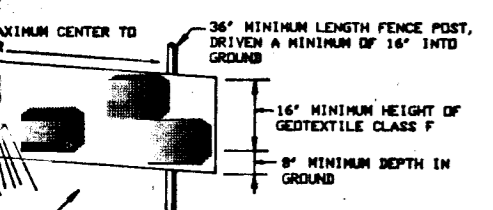
2. PER ACRE DOLOMITIC LIMESTONE (92 LBS./ND 500 LBS. PER ACRE 0-20-20 FERTILIZER SQ.FT.) BEFORE SEEDING HARROW OR DISC.  
 3. THREE INCHES OF SOIL AT TIME OF SEEDING.  
 4. PER ACRE 38-0-0 UREAFORM FERTILIZER (SQ.FT.) AND 500 LBS. PER ACRE 015 LBS./F 10-20-20 FERTILIZER.

5. FROM MARCH 1 THROUGH APRIL 30, AND AUGUST THROUGH TOBER 15, SEED WITH 100 LBS. PER ACRE (2.3 T) OF KENTUCKY 31 TALL FESCUE, FOR THE THROUGH JULY 31, SEED WITH 60 LBS./ACRE (SQ.FT.) KENTUCKY 31 TALL FESCUE AND 2E (0.05 LBS./1,000 SQ.FT.) OF WEEPING RING THE PERIOD OF OCTOBER 16 THROUGH PROJECT SITE BY: OPTION (1) - TWO TONS PER ANCHORED STRAW MULCH AND SEED AS SOON AS E SPRING; OPTION (2) - USE SOO; OPTION (3) - LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH 5/ACRE WELL ANCHORED STRAW. ALL SLOPES SHOULD ED.

6. 2 TONS PER ACRE (90 TO 90 LBS./1,000 SQ.FT.) SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING.  
 7. IMMEDIATELY AFTER APPLICATION USING 200 ACRE (5 GAL./1,000 SQ.FT.) OF EMULSIFIED LAT ACRES, ON SLOPES 8 FEET OR HIGHER USE PER ACRE (8 GAL./1,000 SQ.FT.) FOR ANCHORING.

8. REEDED AREAS AND MAKE NEEDED REPAIRS, AND RESEEDINGS.

9. PONDS SUBSTITUTE CHEMUNG CROWNVEATCH AT 15 ND KENTUCKY 31 TALL FESCUE AT 40 LBS./ACRE AS REQUIREMENT. OPTIMUM SEEDING DATE FOR THIS MARCH 1 TO APRIL 30.

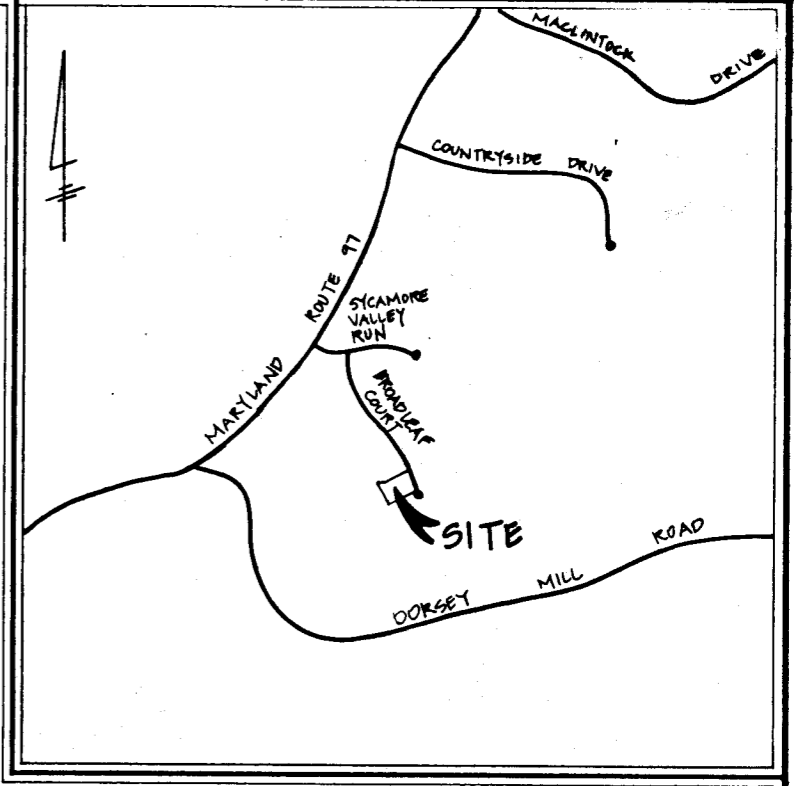


**Construction Specifications**  
 1. a minimum of 36" long driven 16" minimum into the (1) be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter all be of sound quality hardwood. Steel posts will be n weighting not less than 1.00 pond per linear foot.  
 2. Fastened securely to each fence post with wire ties (1) section and shall meet the following requirements:  
 3. 50 lbs/in (min.) Test: NSMT 309  
 4. 30 lbs/in (min.) Test: NSMT 309  
 5. 0.3 gal. Ft<sup>2</sup>/minute (max.) Test: NSMT 322  
 6. 75% (min.) Test: NSMT 322

7. geotextile fabric cone together, they shall be overlapped, prevent sediment bypass.  
 8. Inspected after each rainfall event and maintained when siltment accumulation reached 50% of the fabric height.

**SILT FENCE**  
 NOT TO SCALE

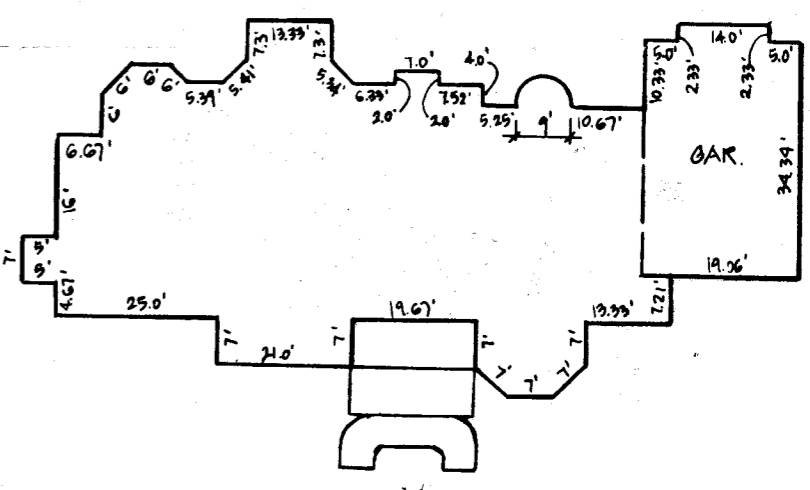
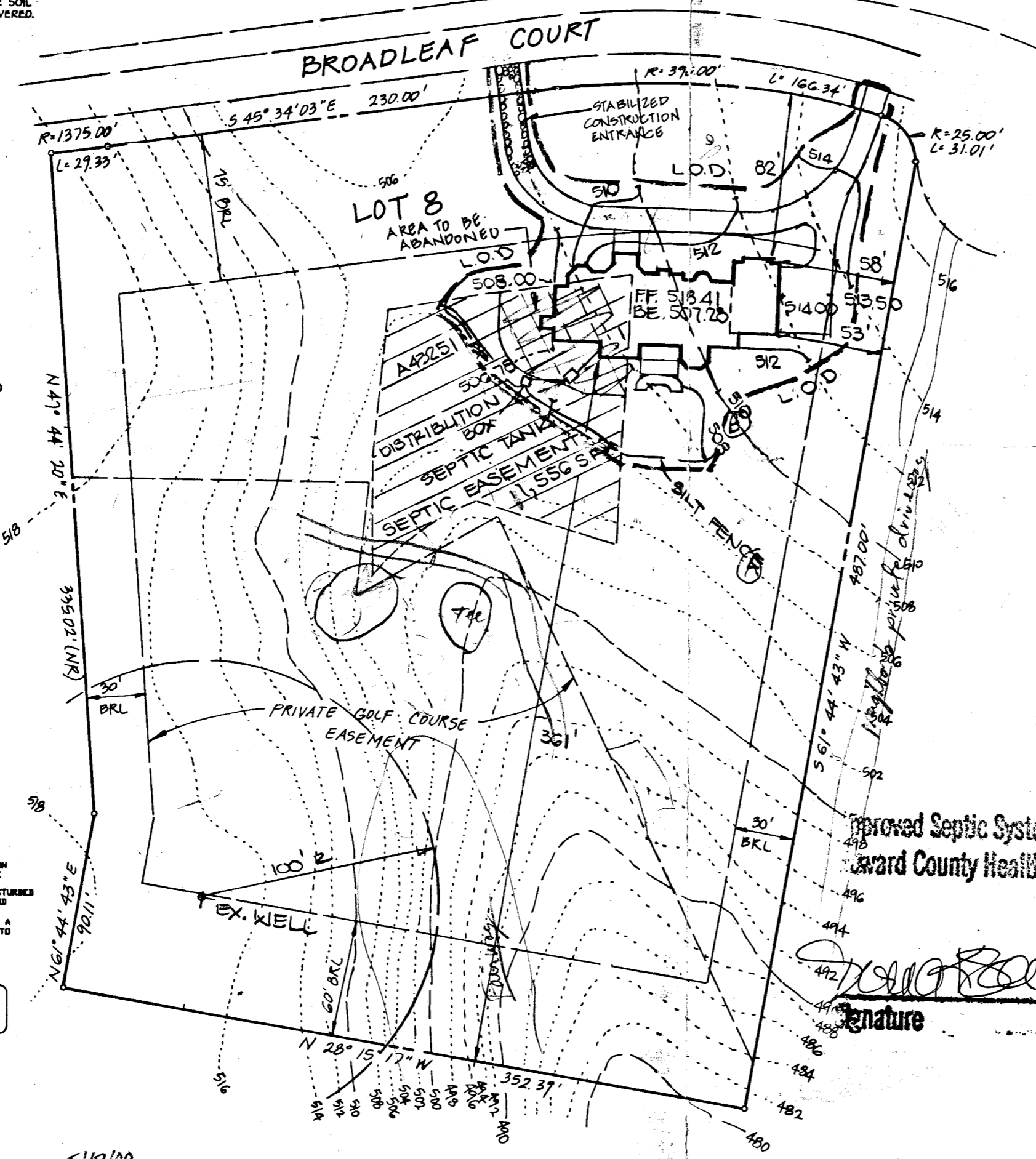
**TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:**  
 TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURE SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER.  
 TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.  
 WHERE THE TOPSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.



**VICINITY MAP**  
 SCALE: 1"=2000'

**GENERAL NOTES**

1. SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT No.
2. PROPOSED 1500 GALLON SEPTIC TANK.
3. A. FIRST FLOOR ELEVATION: 518.41  
 B. BASEMENT ELEVATION: 507.28  
 C. INVERT OF SEPTIC SYSTEM AT HOUSE: 504.00  
 D. INVERT IN AT SEPTIC TANK: 505.25  
 E. INVERT OUT AT SEPTIC TANK: 503.00  
 F. PROPOSED GRADE OVER SEPTIC TANK: 506.30  
 G. INVERT AT DISTRIBUTION BOX: 502.00  
 H. EXISTING GROUND OVER DISTRIBUTION BOX: 506.00  
 I. LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.  
 J. CONTRACTOR / BUILDER TO VERIFY ELEVATIONS IN FIELD BEFORE BEGINNING ANY CONSTRUCTION.



**DETAIL**  
 SCALE: 1"=30'

Total linear feet of trench required	356 feet
Width of trench(es)	3 feet
Depth of trench(es)	6 feet
Depth of stone required below distribution pipe	2 feet

Approved Septic System Plan  
 Howard County Health Department

Signature: [Handwritten Signature]  
 Date: 3/23/99

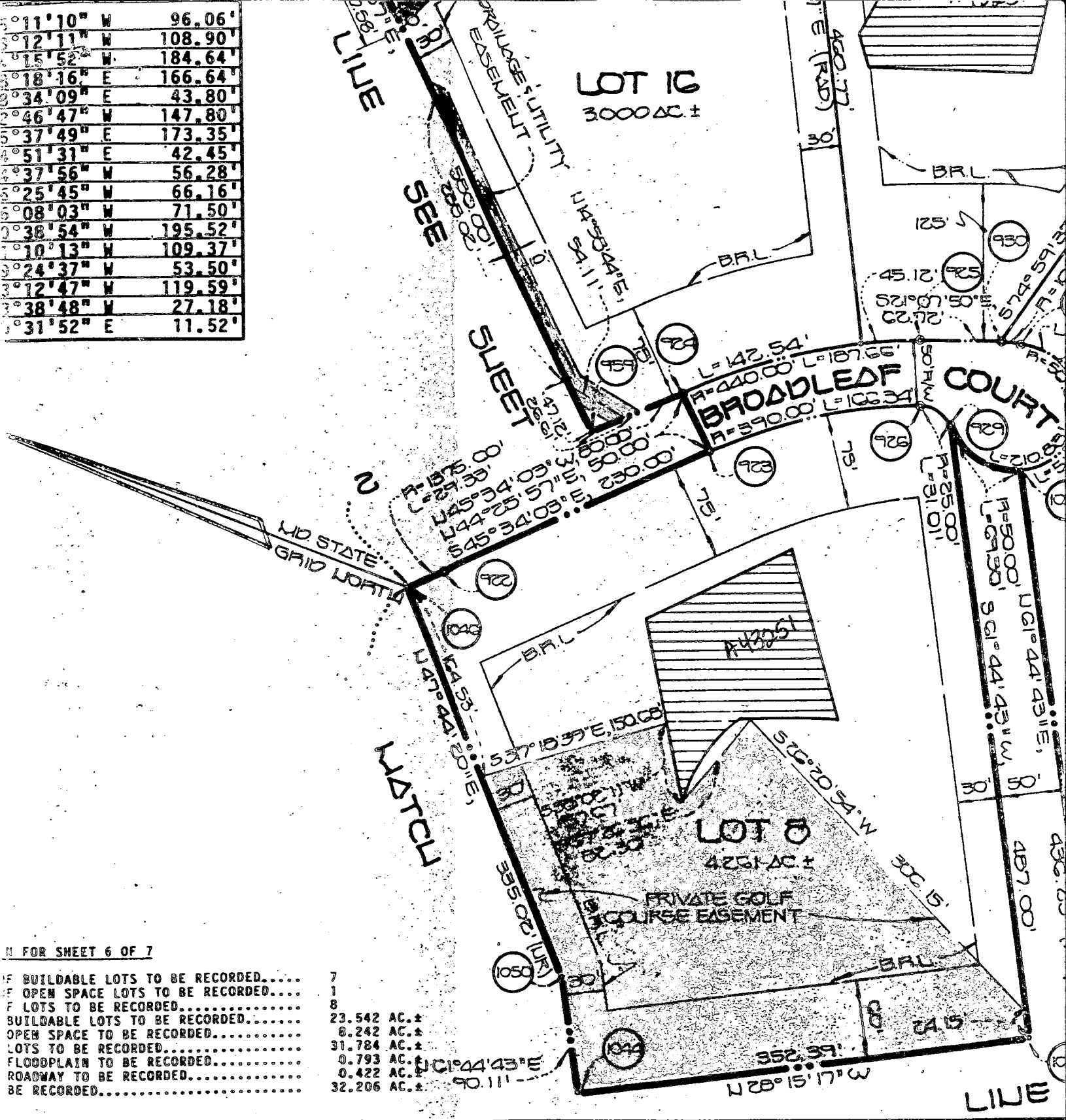
5/17/00  
 Significant portions of

**PLAN**  
 SCALE: 1"=60'

PLAN TO ACCOMPANY APPLICATION FOR BUILDING PERMIT  
 CATTAIL CREEK COUNTRY CLUB  
 LOT 8

TAX MAP # 21 BLOCKS 9, 10, 15 & 16 PARCEL 'G'  
 FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: FEBRUARY, 1999

11'10" W	96.06'
12'11" W	108.90'
15'52" W	184.64'
18'16" E	166.64'
34'09" E	43.80'
46'47" W	147.80'
37'49" E	173.35'
51'31" E	42.45'
37'56" W	56.28'
25'45" W	66.16'
08'03" W	71.50'
38'54" W	195.52'
10'13" W	109.37'
24'37" W	53.50'
12'47" W	119.59'
38'48" W	27.18'
31'52" E	11.52'



FOR SHEET 6 OF 7

IF BUILDABLE LOTS TO BE RECORDED.....	7
IF OPEN SPACE LOTS TO BE RECORDED.....	1
IF LOTS TO BE RECORDED.....	8
BUILDABLE LOTS TO BE RECORDED.....	23.542 AC. ±
OPEN SPACE TO BE RECORDED.....	8.242 AC. ±
LOTS TO BE RECORDED.....	31.784 AC. ±
FLOODPLAIN TO BE RECORDED.....	0.793 AC. ±
ROADWAY TO BE RECORDED.....	0.422 AC. ±
BE RECORDED.....	32.206 AC. ±

FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS; HOWARD COUNTY HEALTH DEPARTMENT.

*Raymond M. ...*  
 COUNTY HEALTH OFFICER      *C.B.A.*

7-19-90  
 DATE

HOWARD COUNTY DEPT. OF PLANNING AND ZONING.

OWNER'S CERTIFICATE

WE, EDGEWOOD FARM, INC. BY HAROLD L. CLARK, PRESIDENT, AND SYCAMORE JR., MANAGING PARTNER, OWNERS OF THE PROPERTY SHOWN AND DESCRIBED HEREIN AND IN CONSIDERATION OF THE APPROVAL OF THIS FINAL PLAT BY THE DEPARTMENT OF PLANNING AND ZONING, GRANT UNTO HOWARD COUNTY, MISSOURI, THE RIGHT TO LAY, CONSTRUCT AND MAINTAIN SEWERS, DRAINS, WATER PIPES AND SANITARY PIPES AND UNDER ALL ROADS OR STREET RIGHTS-OF-WAY AND THE SPECIFIC EASEMENT SHOWN HEREON THE DEDICATION FOR PUBLIC USE THE BEDS OF THE STREETS AND/OR ROADS AND THE RIGHT TO GRANT AND FOR GOOD AND OTHER VALUABLE CONSIDERATION, HEREBY GRANT THE RIGHT OF SIMPLE TITLE TO THE BEDS OF THE STREETS AND/OR ROADS AND FLOOD PLAINS WHERE APPLICABLE; (3) THE RIGHT TO REQUIRE DEDICATION OF WATERWAYS AND OTHER RIGHTS-OF-WAY OF THEIR CONSTRUCTION, REPAIR AND MAINTENANCE; AND (4) THAT NO BUILDING SHALL BE ERECTED ON OR OVER THE SAID EASEMENTS AND RIGHTS-OF-WAY.

WITNESS MY HAND THIS 19th DAY OF JULY, 1990

HOWARD COUNTY HEALTH DEPARTMENT  
Bureau of Environmental Health  
3525-H Ellicott Mills Drive  
Ellicott City, MD 21043  
461-9933

APPLICATION FOR PITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION

New Installation   
Replacement

Receipt # \_\_\_\_\_  
Date 6-7-2000

Name of Installer M.B. Water Specialist  
Ronald Hurley

Telephone 301-898-0962

License Number 12296  
Certified Well Pump Installer  Well Driller  Registered Plumber

Name of Property Owner Anthony J. Topano Telephone \_\_\_\_\_  
Subdivision Cattail Creek Country Club Lot # 8 Well Tag # HO-88-1206  
Site Address 3644 Broadleaf Court

**Pump**  
1. Type  
a. Deep well jet \_\_\_\_\_  
b. Shallow well jet \_\_\_\_\_  
c. Submersible   
2. Make Goulds  
3. Model # 85B1022  
4. Capacity 8 GPM  
5. Pump exceeds well capacity Yes  No   
6. If Yes, is low pressure cutoff switch installed? Yes \_\_\_\_\_ No   
7. What methods are used to protect the pump and electrical wiring from vibrations? Torque arrestors \_\_\_\_\_ Cable guards \_\_\_\_\_ Other N/A

**Motor**  
1. Horsepower 1  
2. RPM \_\_\_\_\_  
3. Voltage \_\_\_\_\_  
a. 110 \_\_\_\_\_  
b. 220

**Pitless Adapter**  
1. Make Camble  
2. Model # Bx10  
3. Depth 36"

**Tank**  
1. Capacity 86  
2. Pressure relief valve?  yes 75psi

**Piping**  
1. Type 160 PSI Poly  
2. Size 1"  
3. NSF and/or BOCA Code approved \_\_\_\_\_  
4. Depth of supply line 3-4'

**Well data**  
1. Depth 300 ft.  
2. Yield 1.5 GPM  
3. Static water level 70-80 ft.  
4. Will water supply be disinfected by installer? \_\_\_\_\_

I understand that it is my responsibility to notify the Howard County Health Department when the installation is ready for inspection (otherwise this permit is null and void).

All information given above is true to the best of my knowledge.

6/7/00-WPI OK  
SRW

Signature of Applicant: Ronald Hurley  
Date: 6-7-2000

Note: A sticker indicating approval/status of the installation will be placed on the well casing at the time of the inspection.

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

Terrell A. Fisher, PE, L.S.  
Earl D. Collins, PE  
Ronald B. Carter, L.S.  
Charles J. Crovo, Sr., PE, L.S.

CIVIL ENGINEERING CONSULTANTS  
and LAND SURVEYORS

2/11/99 site inspection revealed that proposed modification to septic area is ok as presented, but I was unable to find the water well.

**Transmittal**

Via:  Fax  Mail  Messenger  E-Mail  To Be Picked Up  
 Fax (original to follow via U.S. Mail)

2/12/99 Notified engineer *Well* *(DK)*

To: Health Dept. Attn: *Keith Kim Sor.*  
Fax: 410 313 2648  
Phone:

From: Keith Frabio CC:

Re: cattail creek. W.O.#  
Date: Pages: Page(s) including this cover

We are forwarding:  Prints  Copy of Letter  Specifications  Shop drawings  Other  
 Urgent  For your use  As requested  For Review & Comment

Remarks:

lot 8 can we clip this area off.

septic area marked site insp to see

2/13/99 11:25 a.m.  
Spoke to Keith @ F.C.C. - I explained the concerns regarding potential impact of golf course easement on approved septic area - he will notify owner of need to stake septic area for HD inspection prior to any further permit process. DK

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# APPLICATION

PERCOLATION TESTING

A 43251

P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
P.O. BOX 476 ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 461-9933

DISTRICT 4

DATE 12/9/88

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TESTS IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM

*Anthony J. Tokano*

PROPERTY OWNER: Egwood Farm Inc c/o Land Design + Development

ADDRESS: 8307 Main St PHONE: 461-4620

PROSPECTIVE BUYER: N/A

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

PROPERTY LOCATION:  
SUBDIVISION: Clark's ~~Summer~~ Valley LOT NO. New #8 final

ROAD AND DESCRIPTION: Roxbury + Dorsey Mill (3644 Broadleaf Court)

TAX MAP 21 PARCEL # 6

BLDG. PERMIT SKIPPED  
AND RETURNED 5-23-99  
Serial # B7716369

SIZE OF LOT -4.1 AC. TYPE BLDG. SFD - 4Bun  
(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.

*Mal D. Kei*  
(SIGNATURE OF APPLICANT)

APPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

REJECTED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

HOLD PENDING FURTHER TESTS \_\_\_\_\_ DATE \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING \_\_\_\_\_

HD-216

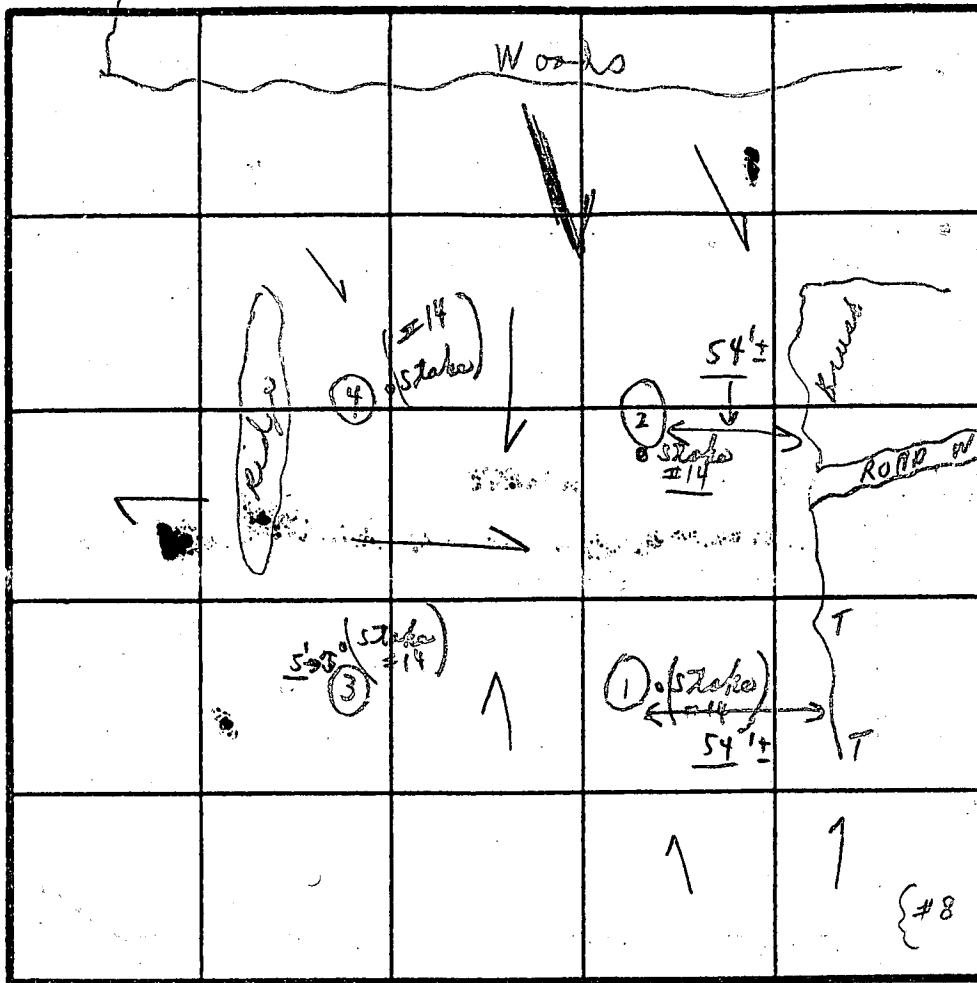
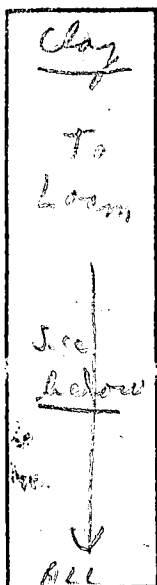
# THIS IS NOT A PERMIT

A # 43251

New #8

# 14

SOIL PROFILE



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

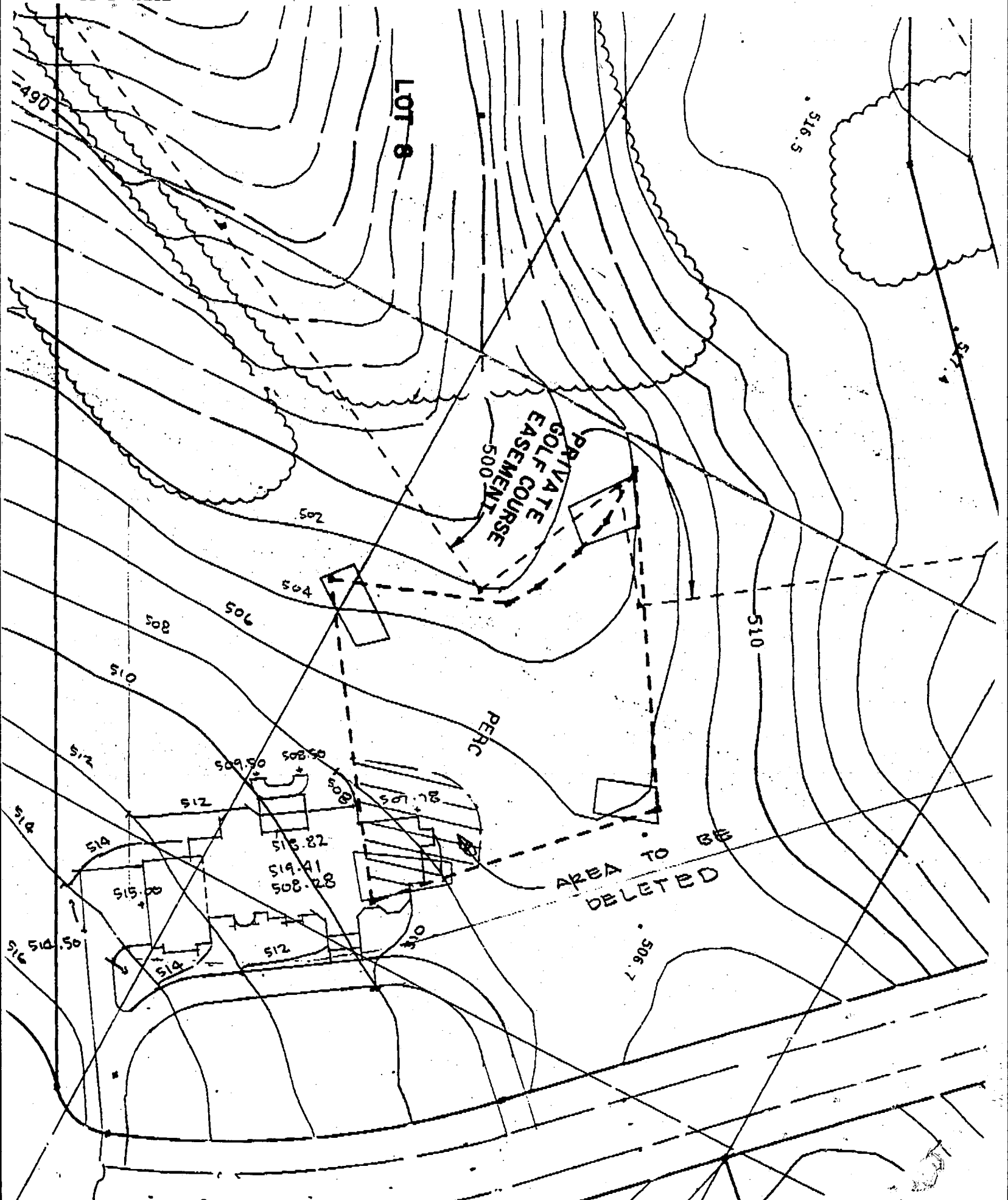
Effective area 6' x 7' }  
 Tests } → 4  
 Inlet 6' average 21 min

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1' DROP		TIME
			START	STOP	START	STOP	
1/5/89	①	7'	3:31	3:38	3:38	3:51	13 min
		11'-10"					
	②	7'	3:31	3:33	3:33	3:47	14 min
		12'-10"					
	③	7'	3:36	3:40	3:40	3:45	5 min
		11'					
	④	6'	3:46	3:50	3:50	3:55	5 min
		9'	3:48	3:55	3:55	4:16	21 min
		13'	Deep				

Clay  
 ↓  
 Reddish  
 Brown  
 Sand & loam  
 with mica like

{ Reddish soil }  
 240 sq ft / BR.

REMARKS 1/5/89 Tests in open; tests per stake  
 TYPE OF SOIL snow covered (waited on fresh water)  
 TESTED BY C. B. A. ALSO PRESENT { Same all day }



5/19/00

Note to file - AUM, CW, RSP, DKS met with owner to discuss problems encountered during re-perc on 5/18/00

sufficient area in 10,000 sq ft easement for initial system & one repair.

There is confidence that ex. easement soils will perc @ 7.0' so septic trench specs changed to accommodate this 2000 gal tank installed to help ~~reduce~~ clean effluent in initial system.

A McMills

# APPLICATION

PERCOLATION TESTING

A \_\_\_\_\_

P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 313-2640

*Refer  
Need extra SDA, big Septic System  
+ area lot to House + Golf course  
Encroachment*

DISTRICT \_\_\_\_\_

DATE \_\_\_\_\_

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.

PROPERTY OWNER \_\_\_\_\_

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

AGENT OR PROSPECTIVE BUYER \_\_\_\_\_

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

PROPERTY LOCATION:

SUBDIVISION Cat Tail Creek Country Club LOT NO. 8

ROAD AND DESCRIPTION 3644 Broadleaf Ct

TAX MAP 21 Blk 9, 10, 15 & 16  
PARCEL # G

SIZE OF LOT \_\_\_\_\_ TYPE BLDG. \_\_\_\_\_  
(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 OF APPLICANT)

APPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

DISAPPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

HOLD PENDING FURTHER TESTS \_\_\_\_\_

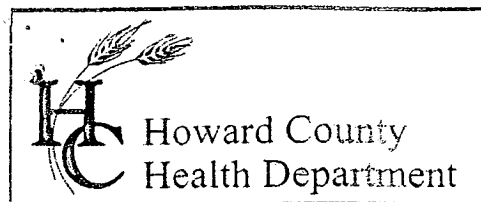
REASONS FOR REJECTION OR HOLDING \_\_\_\_\_

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





3525 H Ellicott Mills Drive, Ellicott City, MD 21043  
(410) 313-2640 Fax (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-866-313-6300  
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

January 24, 2003

Anthony Torano  
3644 Broadleaf Court  
Glenwood, MD 21738

RE: **Replacement Well Issues**  
3644 Broadleaf Court  
Well Permit # HO-94-3298

Dear Mr. Torano:

According to our records your replacement well has been connected to the dwelling. Enclosed is a well line inspection form for the plumber to fill out and send to our office as well as scheduling a well line inspection. This office is also requesting that you contact the Community Environmental Health Program at (410) 313-1773 to schedule an initial water sampling for the referenced replacement well, as required by the Maryland Well Construction Regulation (COMAR 26.04.04). There is currently no charge for the sampling and it to your benefit to have it tested.

It is preferred that the sample be collected from the primary indoor drinking tap, but if suitable scheduling is not possible, the sample may be taken from an outside tap to complete your sampling obligation. However, the potential for unsuccessful sample results increases when samples are collected from taps exposed to the outside environment.

**Failure to confirm the potability of this well water supply by completion of documentation or water sampling requirements could result in the issuance of an order to abandon and seal the replacement well in accordance with COMAR 26.04.04.**

We have also noted in your file that your old well will not be abandoned & seal, as you plan to use it for a back-up potable water source. If you have any questions or would like to discuss these matters further please call me at (410) 313-2640. Thank you for your time and cooperation.

Respectfully,

Kacie Noonan, Sanitarian  
Well and Septic Program

cc: Community Environmental Health Program  
File

I-2703

Owner called in reference to well line inspection sheet the plumber needs to fill out. The owner says the same pump from the previous well is being reused and that he plans to maintain the well. The owner says he has a total of four wells on his property. The owner said the new well is hooked up to the existing well line.

Kacie

Also, sand water was already tested and ok'd - no issues.

Ready to reindex

C1 - 0573

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

(THIS NUMBER IS TO BE PUNCHED IN COLUMNS 3-6 ON ALL CARDS)

COUNTY NUMBER 13 A43251

ST/CO USE ONLY DATE RECEIVED 07 Nov 03

DATE WELL COMPLETED 11 17 01

Depth of Well 230 (TO NEAREST FOOT)

PERMIT NO. FROM 'PERMIT TO DRILL WELL' HO-94-3298

OWNER Torano Anthony STREET OR RFD 3644 Broadleaf Court TOWN Glenwood SUBDIVISION Cattail Creek SECTION LOT 8

WELL LOG Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Top Soil, Sandstone, MICSA, and Sandstone.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y) TYPE OF GROUTING MATERIAL (C) CEMENT (CM) BENTONITE CLAY (BC) NO. OF BAGS 19 NO. OF POUNDS 1700

CASING RECORD (S) STEEL (C) CONCRETE (P) PLASTIC (O) OTHER

MAIN CASING TYPE (P) Nominal diameter top (main) casing (nearest inch) 63-64 Total depth of main casing (nearest foot) 70

OTHER CASING (if used) diameter inch depth (feet) from to

SCREEN RECORD (S) STEEL (B) BRASS (H) OPEN HOLE (P) PLASTIC (O) OTHER

NUMBER OF UNSUCCESSFUL WELLS

WELL HYDROFRACTURED (Y) (N)

CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 'WELL CONSTRUCTION' AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO. M SD 113 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. M D

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

DEPTH (nearest ft.) 230

Table with columns: E, A, C, H, S, C, R, E, N and rows for casing diameters and slot sizes.

DIAMETER OF SCREEN (NEAREST INCH) from to

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST

HOURS PUMPED (nearest hour) 3 7.5 PUMPING RATE (gal. per min.) 11 15 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 55 ft. WHEN PUMPING 95 ft. TYPE OF PUMP USED (for test): (A) air (P) piston (T) turbine (C) centrifugal (R) rotary (O) other (J) jet (S) submersible

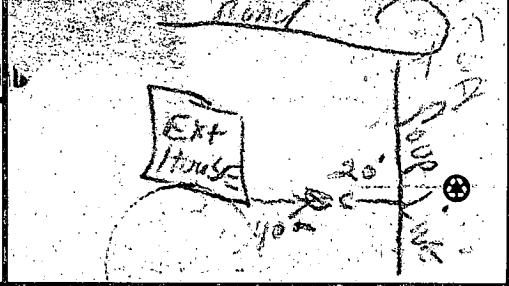
PUMP INSTALLED

DRILLER INSTALLED PUMP (YES) (NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED PLACE (A, C, J, P, R, S, T, O) IN BOX 29 CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35 PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47

CASING HEIGHT (circle appropriate box and enter casing height) (4) above LAND SURFACE (5) below (2) (nearest foot)

LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)



HOWARD CO.

B 1 1 2 3 6 <b>8928</b>	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND <b>PERMIT TO DRILL WELL</b> W516416 please print or type	STATE PERMIT NUMBER <b>Ho-94-3298</b> <small>fill in this form completely</small>
-------------------------------	--------------------------------	--	---

**OWNER INFORMATION**

Date Received (APA) 11/14/01  
8 MM DD YY 13

Torano Anthony  
15 Last Name Owner First Name 34

3644 Broadleaf Court  
36 Street or RFD 55

Glenwood Md. 21738  
57 Town 70 State 72 Zip 76

**LOCATION OF WELL**

B 3 Howard  
8 COUNTY 21

Cattail Creek Country Club  
23 SUBDIVISION 42

SECTION - LOT 8  
44 46 48 50

Glenwood  
52 NEAREST TOWN 71

MILES FROM TOWN (enter 0 if in town) 2 M I  
73 76 77 78

**DRILLER INFORMATION**

Ralph F. Mayne M S D 117  
76 Driller's Name License No. 81

Ralph E. Mayne Well Drilling  
Firm Name

1224 Hardy Rd. Mt. Airy Md. 21771  
Address

Ralph E. Mayne 11-13-01  
Signature Date

**DIRECTION OF WELL FROM TOWN (CIRCLE BOX)**

B 4  
1 2

Black Walnut LA  
11 NEAR WHAT ROAD 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

NORTH  
 WEST  
 EAST  
 SOUTH

DISTANCE FROM ROAD  
ENTER FT OR MI 38 39

TAX MAP: 21 BLK: 9 PARCEL 6

**WELL INFORMATION**

B 2  
1 2

APPROX. PUMPING RATE (GAL. PER MIN.) 5  
8 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500  
14 20

**USE FOR WATER (CIRCLE APPROPRIATE BOX)**

DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

INDUSTRIAL, COMMERCIAL, DEWATERING

PUBLIC WATER SUPPLY WELL

TEST, OBSERVATION, MONITORING

GEO-THERMAL

**NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL**

Howard (13) A43251  
COUNTY NAME COUNTY NO.

STATE SIGNATURE \_\_\_\_\_ INSERT S → 41

DATE ISSUED 12/18/2001 Brian Baker 12/18/2002  
43 MM DD YY 48 CO SIGNATURE EXP. DATE

NORTH GRID 522 000 EAST GRID 790 000  
50 55 57 63

APPROXIMATE DEPTH OF WELL 340 FEET  
24 28

APPROXIMATE DIAMETER OF WELL 6" NEAREST INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

1. well

2. \_\_\_\_\_

3. \_\_\_\_\_

WRITE THE BOX NUMBER FROM THE MAP HERE

E 790

N 5202 ←  000  
 000

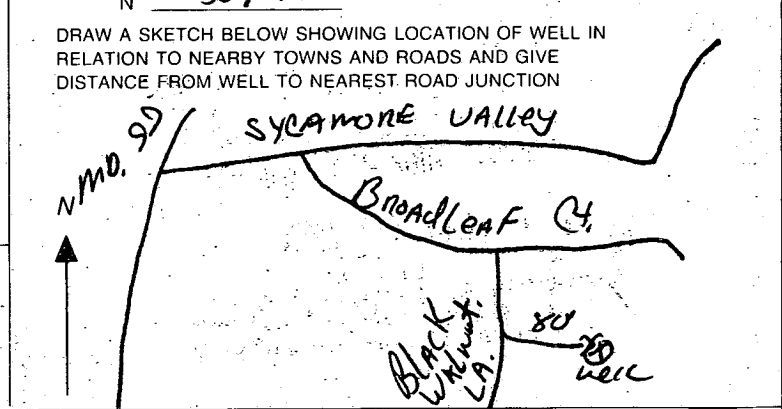
**METHOD OF DRILLING (circle one)**

BORED (or Augered)  JETTED  Jetted & DRIVEN

AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary)

CABLE REVERSE-ROTary DRIVE-POINT

other \_\_\_\_\_



**REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)**

THIS WELL WILL NOT REPLACE AN EXISTING WELL

THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED

THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS

THIS WELL WILL DEEPEM AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) \_\_\_\_\_

**Not to be filled in by driller (MDE OR COUNTY USE ONLY)**

APPROP. PERMIT NUMBER \_\_\_\_\_

PERMIT No. Ho-94-3298  
70 71 72 73 74 75 76 77 78 79

C1 0526

SEQUENCE (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER 43251

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED 10 31 01

Depth of Well 340

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-94-2260

OWNER Tocco Anthony STREET OR RFD Broadleaf Ct TOWN Glenwood SUBDIVISION Cottal Creek SECTION LOT 8

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Top Soil, Clay, Blue Stone, Sand Stone, and MICA.

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CM, BC), NO. OF BAGS (6), NO. OF POUNDS (600), GALLONS OF WATER (36), DEPTH OF GROUT SEAL (0 to 20 ft).

CASING RECORD: casing types (ST, CO, PL, OT), MAIN CASING TYPE (PI), Nominal diameter (6), Total depth (22).

OTHER CASING (if used) diameter and depth fields.

SCREEN RECORD: screen type (HO), DEPTH (20, 340).

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED (N), CIRCLE APPROPRIATE LETTER (A, E, P).

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 28.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO. 1 M SDLL21, DRILLERS SIGNATURE, LIC. NO. 1 M D

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

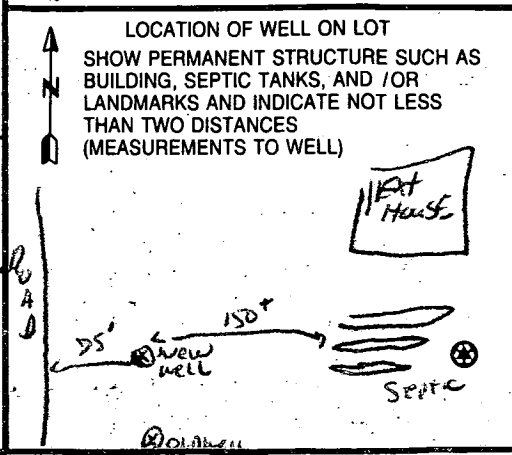
DEPTH (nearest ft.) table with columns 1-21 and 23-51, showing values 20 and 340.

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q

PUMPING TEST: HOURS PUMPED (3), PUMPING RATE (4 gal. per min.), METHOD USED TO MEASURE PUMPING RATE (Bucket), WATER LEVEL (36 ft. before, 340 ft. when pumping), TYPE OF PUMP USED (A) at.

PUMP INSTALLED: DRILLER INSTALLED PUMP (NO), TYPE OF PUMP INSTALLED (A), CAPACITY GALLONS PER MINUTE (31), PUMP HORSE POWER (37), PUMP COLUMN LENGTH (43), CASING HEIGHT (49), LAND SURFACE (2 ft. below).



DRILLER Howard CO.

B 4 8919

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL W516096 please print or type

STATE PERMIT NUMBER

HO-94-3260

fill in this form completely

Date Received (APA)

10 29 01

OWNER INFORMATION

8 MM DD YY 13

TORANO

Anthony

15 Last Name

Owner

First Name

34

3644 Broad Leaf Court

36 Street or RFD

Street or RFD

55

Glenwood Md. 21738

57 Town

70 State

72

Zip

76

DRILLER INFORMATION

Ralph E. Mayne

M S D 117

Driller's Name

76

License No.

81

Ralph E. Mayne Well Drilling

Firm Name

17024 Handy Rd. Mt Airy Md. 21701

Address

Ralph E. Mayne 10-26-01

Signature

Date

B 2

WELL INFORMATION

APPROX. PUMPING RATE

5

(GAL. PER MIN.)

8

500

12

AVERAGE DAILY QUANTITY NEEDED

(GAL. PER DAY)

14

20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

D

DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

F

FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

I

INDUSTRIAL, COMMERCIAL, DEWATERING

P

PUBLIC WATER SUPPLY WELL

T

TEST, OBSERVATION, MONITORING

G

GEO-THERMAL

B 3

LOCATION OF WELL

Howard

8 COUNTY

Cattail Creek Country Club

23 SUBDIVISION

SECTION 44

LOT 8

Glenwood

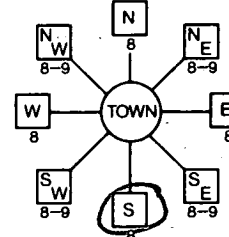
52 NEAREST TOWN

MILES FROM TOWN (enter 0 if in town)

2

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Broadleaf Ct.

11 NEAR WHAT ROAD

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



34 350 37

DISTANCE FROM ROAD

ENTER FT OR MI 38 39

TAX MAP: BLK: PARCEL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard

43251

COUNTY NAME

COUNTY NO.

STATE SIGNATURE

INSERT S

DATE ISSUED

10 29 01

Steven R. Krug

10 29 02

43 MM DD YY 48

CO SIGNATURE

EXP. DATE

NORTH GRID 520

000

EAST GRID 790

000

50

55

57

63

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

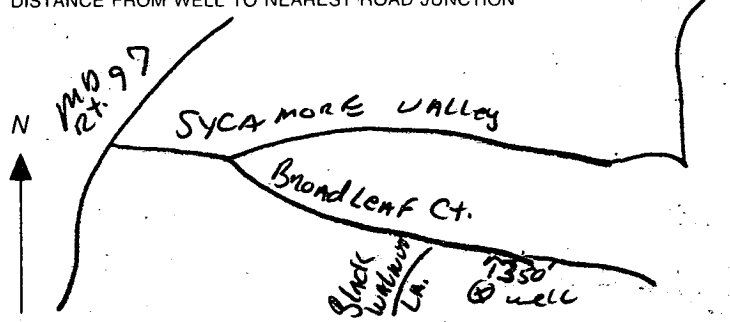
- 1. well
- 2.
- 3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 790

N 520

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



METHOD OF DRILLING (circle one)

BORED (or Augered)

JETTED

Jetted & DRIVEN

AIR-ROtary

AIR-PERcussion

ROtary (Hydraulic Rotary)

CABLE

REVerse-ROtary

DRive-POINT

other

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

N

THIS WELL WILL NOT REPLACE AN EXISTING WELL

Y

THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED

S

THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCATION FOR POLICY ON STANDBY WELLS

D

THIS WELL WILL DEEPEM AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)

41

52

Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROP. PERMIT NUMBER

HO-94-3260

SPECIAL CONDITIONS H-410-489-4249 W-301-309-1100 Ext 106 301-213-8000 CELL







Page 1 of 1  
 Date 6-20-90

Review CBA 5/18/90

**FIELD DATA SHEET**  
**HOWARD COUNTY WELL YIELD TEST**

Well Permit No. HO - 88-1206  
 Location of property (road) BROAD LEAF COURT  
 Subdivision Sycamore Valley Lot 8 Block - Plat - Sec. 4  
 Well Driller FRANK DELPH Owner Sycamore Valley Partnership

Depth of well 325  
 Distance of measuring point (M.P.) above ground 2'  
 Static water level (S.W.L.) below M.P. 30'

**I. High rate pumping -- reservoir drawdown**

Time pump started 5:30 Pumping rate 10 GPM  
 Total time 30 min to reach pumping water level 145 ft. below M.P.

**II. Recovery pump test data - observations to be recorded every 15 minutes**

TIME (in 15 minute intervals)	WATER LEVEL below M.P.	PUMPING RATE time to fill 5' gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
6:00	145'	45 sec		1.5 GPM
6:15	145'	45 sec		1.5 GPM
6:30	145'	45 sec		1.5 GPM
6:45	145'	45 sec		1.5 GPM
7:00	145'	45 sec		1.5 GPM
7:15	145'	45 sec		1.5 GPM
7:30	145'	45 sec		1.5 GPM
7:45	145'	45 sec		1.5 GPM
8:00	145'	45 sec		1.5 GPM
8:15	145'	45 sec		1.5 GPM
8:30	145'	45 sec		1.5 GPM
8:45	145'	45 sec		1.5 GPM
9:00	145'	45 sec		1.5 GPM
9:15	145'	45 sec		1.5 GPM
9:30	145'	45 sec		1.5 GPM
9:45	145'	45 sec		1.5 GPM
10:00	145'	45 sec		1.5 GPM
10:15	145'	45 sec		1.5 GPM
10:30	145'	45 sec		1.5 GPM
10:45	145'	45 sec		1.5 GPM
11:00	145'	45 sec		1.5 GPM
11:15	145'	45 sec		1.5 GPM
11:30	145'	45 sec		1.5 GPM
11:45	145'	45 sec		1.5 GPM

12:00 145' 45 sec 10 GPM

B 1 **2184** SEQUENCE NO. (DP USE ONLY)  
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

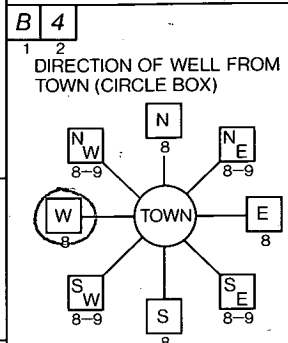
STATE OF MARYLAND  
 PERMIT TO DRILL WELL  
 please print or type

STATE PERMIT NUMBER  
**HO-88-1206**  
 fill in this form completely

Date Received (APA) **110/189**  
 OWNER INFORMATION  
**Sycamore Valley Part**  
 15 Last Name 34 Owner First Name  
**8307 Main Street**  
 36 Street or RFD 55  
**Ellicott City Md 21403**  
 57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL  
**Howard**  
 8 COUNTY 21  
**Sycamore Valley**  
 23 SUBDIVISION 42  
 SECTION **1** 44 46 LOT **8** 48 50  
**Glenn**  
 52 NEAREST TOWN 71  
 MILES FROM TOWN (enter 0 if in town) **0** 73 **MI** 76 77 78

DRILLER INFORMATION  
**Frank Delph** 453  
 Driller's Name 77 License No. 80  
**Frank Delph Well Drillers Inc**  
 Firm Name  
**18234 Penn Shop Rd Mt Airy Md**  
 Address  
**Frank Delph 10/23/89**  
 Signature Date



**Broadleaf Ct**  
 11 NEAR WHAT ROAD 30  
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  
  
 NORTH N  
 WEST W  
 SOUTH S  
 EAST E  
**40** 34 37  
 DISTANCE FROM ROAD  
 ENTER FT or MI **4** 38 39

B 2 WELL INFORMATION  
 APPROX. PUMPING RATE (GAL. PER MIN.) **5** 8 12  
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **500** 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)  
 HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)  
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)  
 INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)  
 PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL)  
 TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL  
**HOWARD** A# **43251**  
 COUNTY NAME COUNTY NO.  
 STATE SIGNATURE \_\_\_\_\_ INSERT S \_\_\_\_\_  
 DATE ISSUED **02/22/90** Charles E. Ryan **10/23/90**  
 43 48 50 SIGNATURE 55 EXPR DATE 57  
 NORTH GRID **523000** EAST GRID **0790000**  
 50 55 57

APPROXIMATE DEPTH OF WELL **200** 24 28 FEET

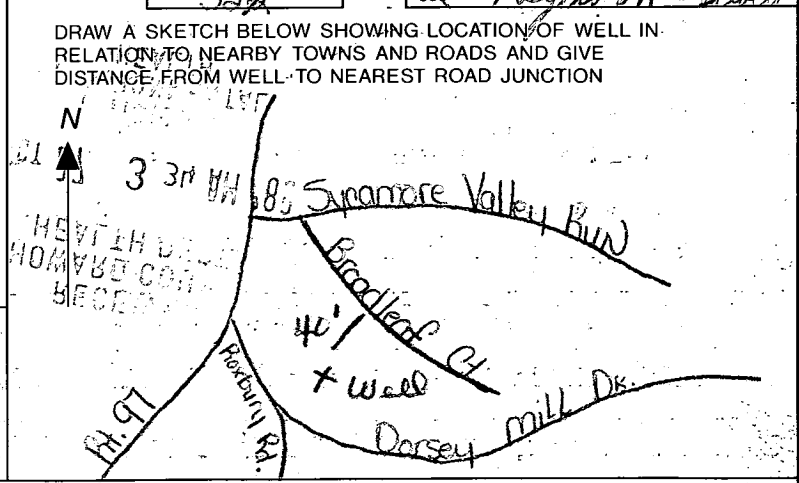
APPROXIMATE DIAMETER OF WELL **6** NEAREST INCH

METHOD OF DRILLING (circle one)  
 BORED (or Augered) JETTED Jetted & DRIVEN  
 30 AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rotary)  
 37 CABLE REVerse-ROTary DRive-POINT  
 other \_\_\_\_\_

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X  
 SOURCES OF DRILLING WATER  
 1. WELL  
 2.  
 3.  
 WRITE THE BOX NUMBER FROM THE MAP HERE  
  
 E **788 90**  
 N **522 3**

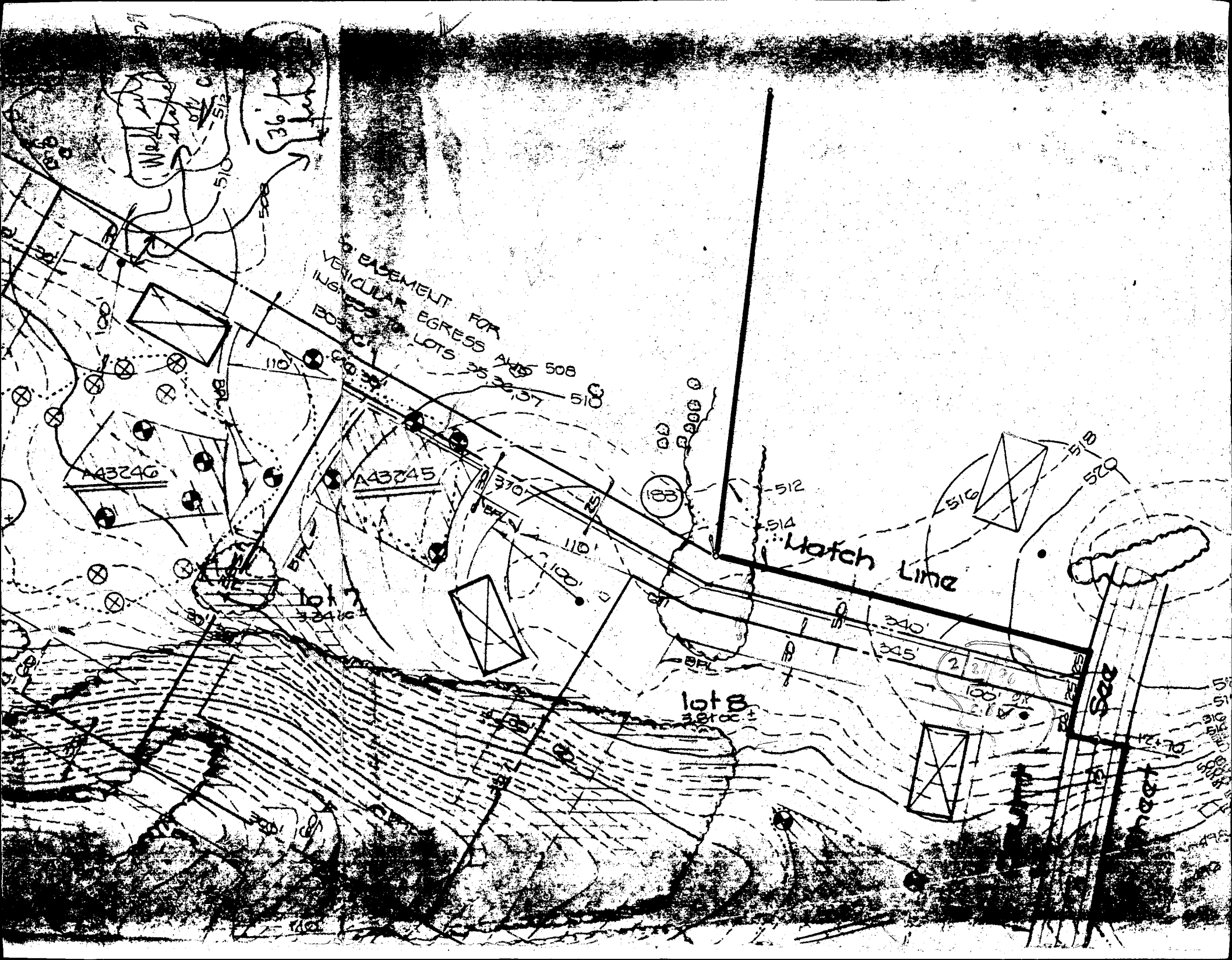
*Handwritten notes:*  
 6/20/90 - Grouted 5/21/90  
 on Delph Well  
 5' Bags of cement on C.B.  
 21' Well casing  
 18' Well gravel open  
 2' Casing above ground  
 6 1/2' Tag iron well

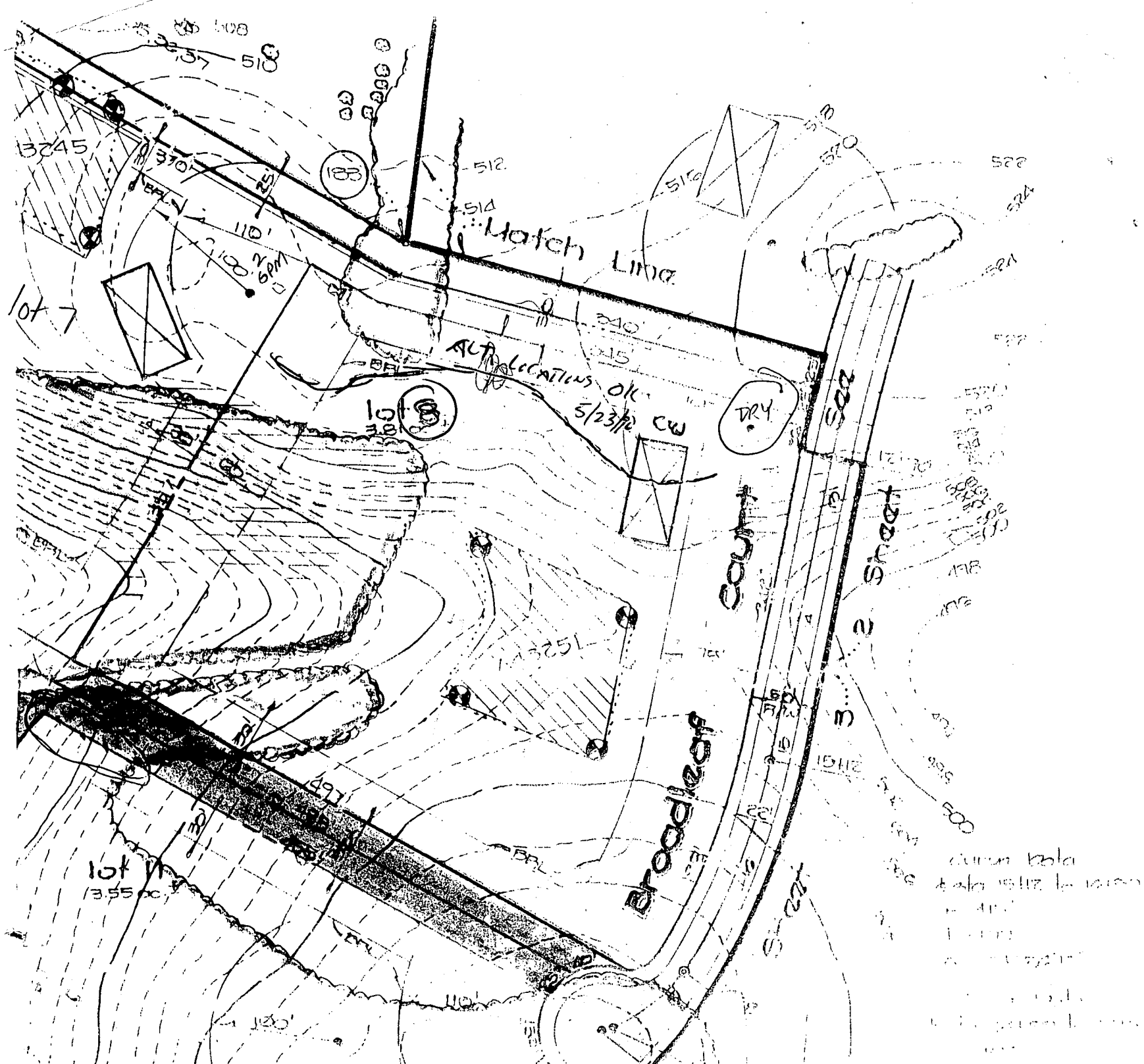
REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)  
 THIS WELL WILL NOT REPLACE AN EXISTING WELL  
 THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED  
 THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY  
 THIS WELL WILL DEEPEM AN EXISTING WELL  
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 \_\_\_\_\_ 52



Not to be filled in by driller (OEP USE ONLY)  
 APPROP. PERMIT NUMBER \_\_\_\_\_ GAP \_\_\_\_\_  
 54 63  
 FORCE **CM** WRITE INITIALS IN BOX PERMIT No. **HO-88-1206**  
 67 68 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS





Match Line

ALT. LOCATIONS OK  
5/23/70 CW

DRY

Court

Broadleaf

Sheet 2

Lot 138

Lot 135  
3.55 ac.

current table  
table used to show  
...  
...  
...  
...  
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