

Tax ID 04-350367

PERMIT

File

[2 P.C.O. 0
10/16 C.B.]

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 48597

A 42107

DISTRICT 4th

DATE 10/15/92

DATE SYSTEM APPROVED 10/16/92

INSPECTOR C.B.

*10/16/92
AM
WOOD
P.M.*

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

~~XXXXXX~~ 313-2640

INDEXED

Dirty Works

IS PERMITTED TO INSTALL ALTER

ADDRESS 1633 Manchester Road, Westminster, Maryland 21153 PHONE (410) 876-8725

SUBDIVISION Quail Meadows LOT 12 ROAD 16642 Bahner Court

PROPERTY OWNER Larry Barnard Keith Miller

ADDRESS _____

SEPTIC TANK CAPACITY 1250 GALLONS

BUILDING PERMIT SIGNED AND RETURNED

NUMBER OF BEDROOMS 4

6403 B0014254-AG POOL

180 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 240

TRENCHES - Trench to be 3 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 5 feet below original grade. Effective area begins at 3 feet below original grade. 2 feet of stone below distribution pipe.

LOCATION - As seen from Bahner Court, place first trench 75 feet from left (473.64') lot line and 200 feet from rear lot line. Run trenches along contours 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. *OK 140CT92 R1**

PLANS APPROVED BY Mark Rifkin REVISED _____ DATE 4/10/91

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

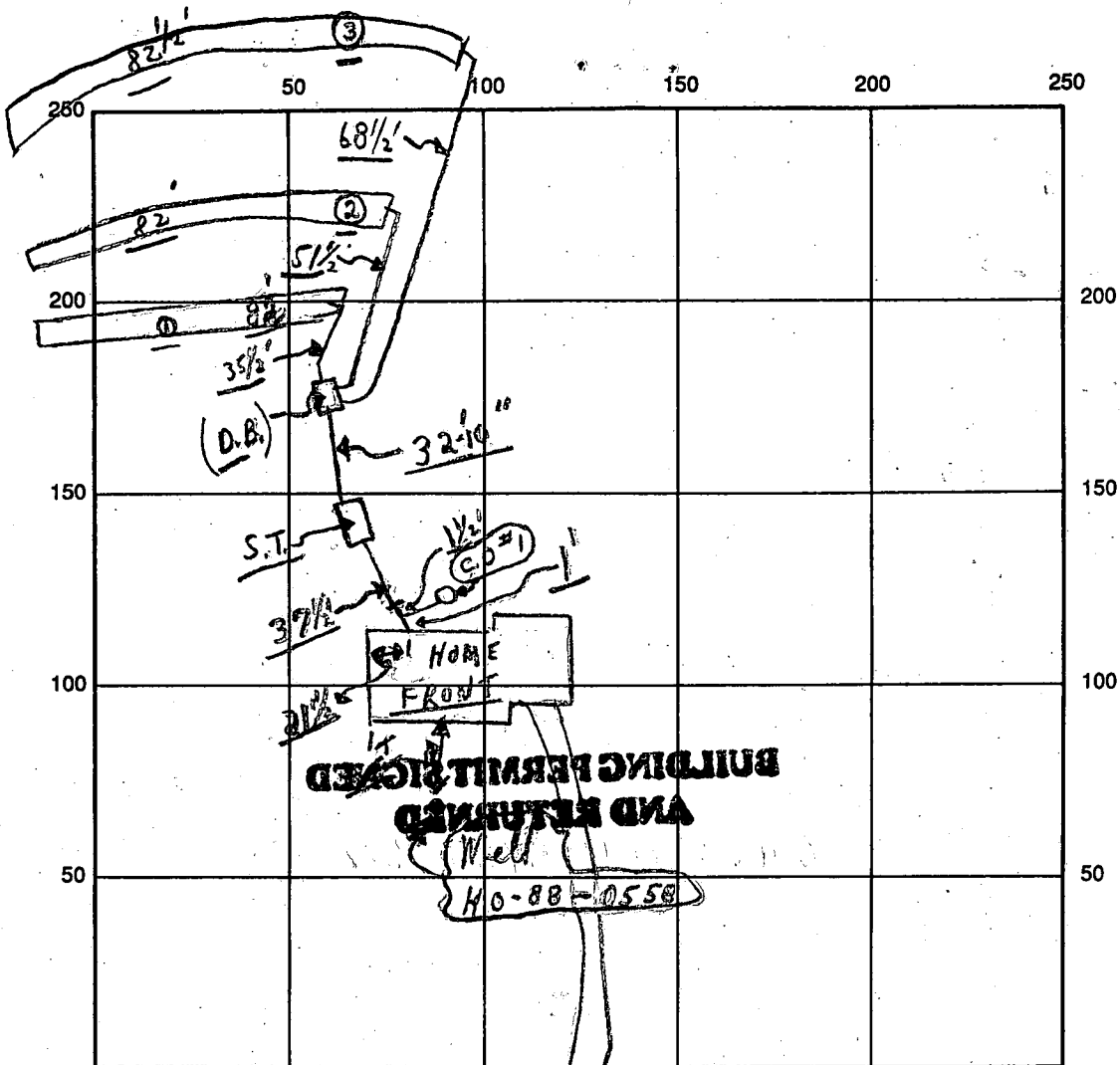
PERMIT VOID AFTER TWO YEARS

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**

A 42107



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

BAHNER COURT

SEPTIC TANK LEVEL OK CLEANOUTS S.T. OK C.I.D. #1 OK (Taped)
 DISTRIBUTION BOX LEVEL OK (Baffle is in) Needs Pump
 DRAIN FIELD/TITLE DEPTH 5 FT. TRENCH WIDTH 3 FT. INLET DEPTH 3 FT.
 EFFECTIVE GRAVEL DEPTH 2 FT. TOTAL LENGTH 82' } = 246'
 NUMBER OF TRENCHES 3 ONE DRYWALL BOTTOM AREA 738 SQ. FT. +
 DRYWALL INSIDE DIAMETER FT. EFFECTIVE DEPTH BELOW INLET FT.

ABSORBENT AREA 738 SQ. FT.

REMARKS: 10/16 A.M. Early Partial - ok for stone in #1 trench - only; c.B.d.
10/16 Noon - ok to cover from house to D. Box and trench, trench #2, dug 50'
10/16 Late P.M. Final - finished; c.B.d.

{ 10/16 Final in A.M. on W.P.I. c.B.d. }

DATE SYSTEM APPROVED 10/16/92 INSPECTOR Charles Bryan Sherk

APPLICATION

PERCOLATION TESTING

A 42107

P _____

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

DISTRICT 4TH

DATE 4/2/88

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

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

PROPERTY OWNER EDWARD J. AND PATRICIA KUNTZE. Fall Developers Inc

ADDRESS 2328 FLORENCE ROAD, WOODBINE, MD. 21797 PHONE 795-1866
439-4969

PROSPECTIVE BUYER CARMAN ASSOCIATES

ADDRESS P.O. BOX 122, ELLICOTT CITY, MARYLAND 21043 PHONE 442-5613

PROPERTY LOCATION: N/S MD. ROUTE 144 APPROX 1300' EAST OF WATERSVILLE ROAD

SUBDIVISION PROPERTY OF LAVINIA L. HOOD LOT NO. X 12 on Final

ROAD AND DESCRIPTION COURT 'A' (16642 Bahner Court)

TAX MAP 7 PARCEL # 482

SIZE OF LOT 3 ACRES + TYPE BLDG SFD
(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]
MCCARDIAN ASSOCIATES
GENERAL PARTNER
(SIGNATURE OF APPLICANT)

APPROVED BY Sidell FOR Standard trench DATE 11-21-88

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 10/25/88 Perc Satisfactory. Hold for Permit. Sawn

BLDG. PERMIT SIGNED AND RETURNED 9/25/92
Serial # 45545
SFD

BLDG. PERMIT SIGNED AND RETURNED 9/4/91
Serial # 35797 SFD
3 Bedrooms

THIS IS NOT A PERMIT

HD-216

A-42107

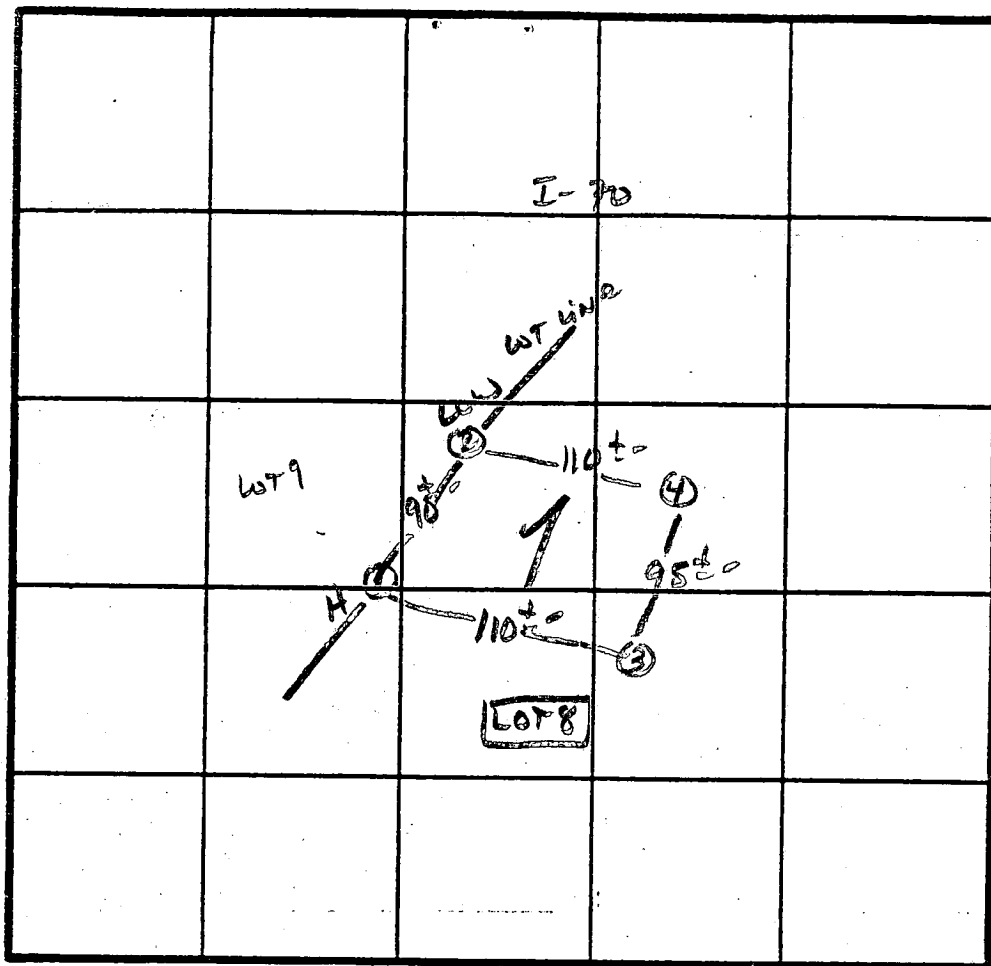
SOIL PROFILE

0
5"
3"
12"

AP

Strongly yellow br Silty loam (clayey) 21.5% Fracp

Yellow br Silty loam 20.25% Fracp.



X Perc
6 min
180 lb
Inlet 3"
Bottom 5"

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

R-144

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
10/25/88	15	3.5	12:42	12:44	12:44	12:48	4 min	
		7.5	12:42	12:44	12:44	12:49	5 min	
	11	12"	AS PROFILED					
	25	3.5"	12:53	12:55	12:55	12:59	4 min	
		12"	SIMILAR TO PROFILE - FRACp VARYING AT 11"					
	35	3.0"	12:56	12:57	12:57	12:59	2 min	
		12"	AS PROFILED w/ 1.5% FRACp					
	45	3.5"	12:58	1:06	1:06	1:20	14 min	
		12"	SAME AS # 3					

REMARKS Holes APPROX PLAT / Shallow Spt. only

TYPE OF SOIL MAJOR

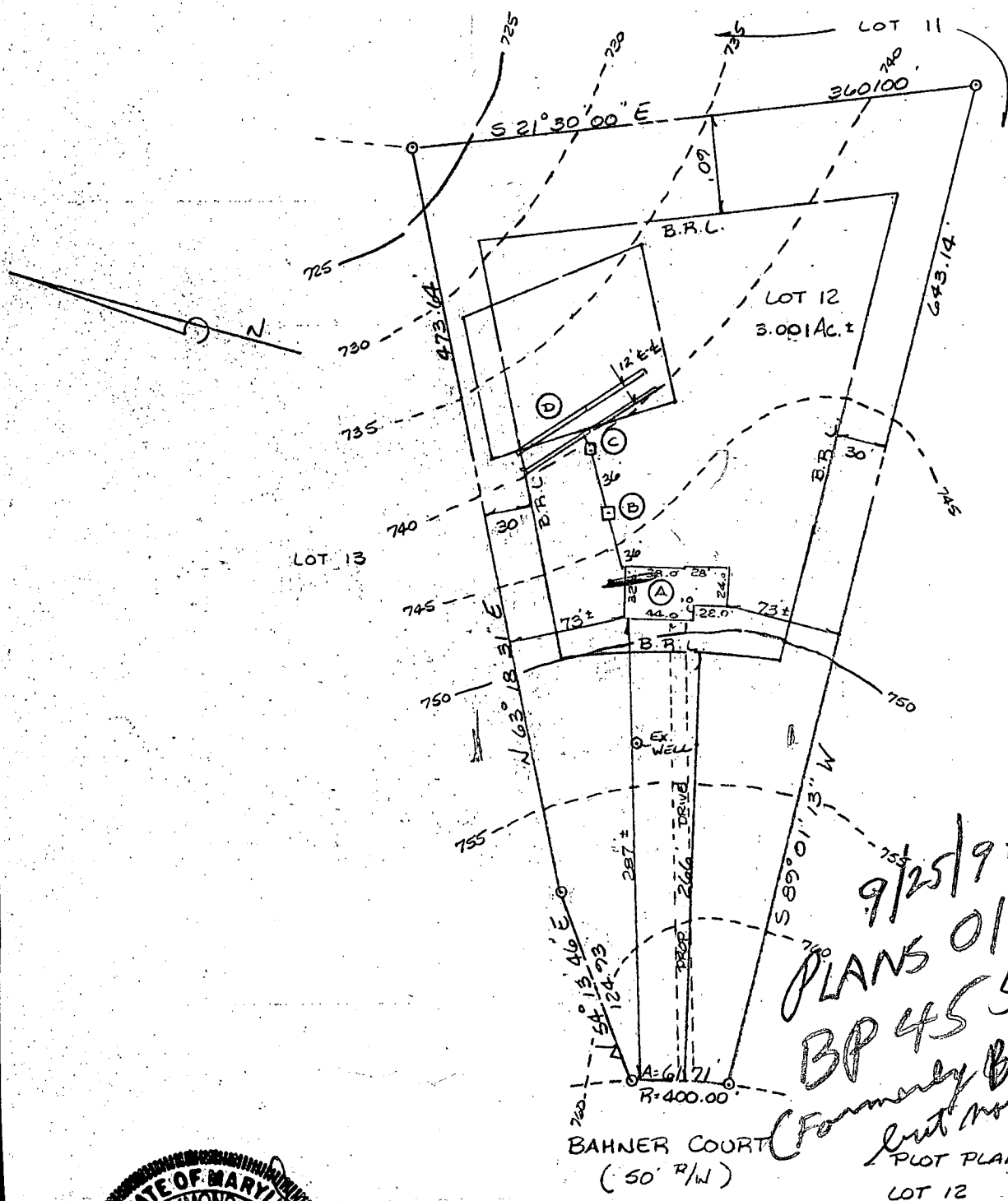
TESTED BY S. Abel

ALSO PRESENT Phil M. Andrews
Ruby C. Glass

- (A) PROP. HOUSE
F.F. ELEV. = 748.2
BSMT. ELEV. = 739.7
INV. ELEV. = 738.5
- (B) PROP. SEPTIC TANK
EX. ELEV. = 743.4
INV. IN = 738.2
INV. OUT = 737.9
- (C) PROP. DIST. BOX
EX. ELEV. = 740.2
INV. ELEV. = 737.5
- (D) PROP. TRENCHES
INV. ELEV. 737.2
2' STONE, 5' BOT. MAX.
LENGTH TO BE DETERMINED
AT TIME OF SEPTIC PERMIT
ISSUANCE.

H3
3.0

740
737
—
2



9/25/92
PLANS O.K.
BP 45545
Formerly BP 30127
but not correct
R. Hodges



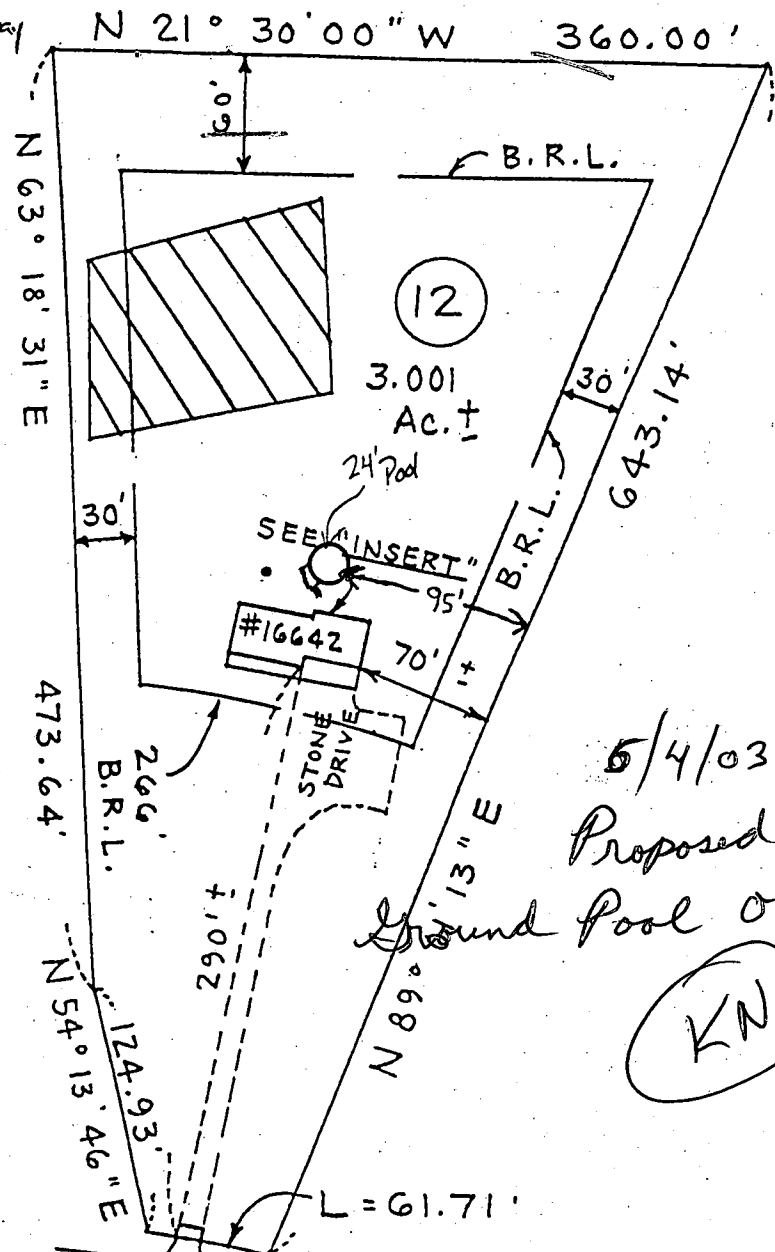
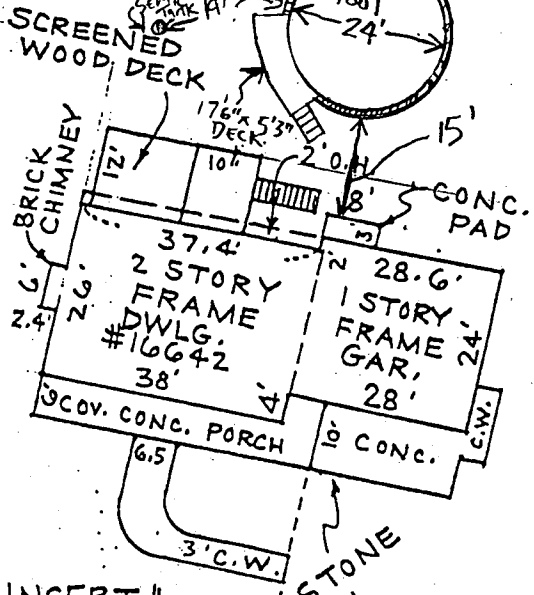
PLOT PLAN
LOT 12
QUAIL MEADOW
SITUATED ON BAHNER COURT
ELECTION DISTRICT N 2 4
HOWARD COUNTY MARYLAND
SCALE: 1"=100' AUG. 1992

I CERTIFY THIS PLAT TO BE CORRECT; IT IS THE RESULT OF AN ACTUAL FIELD SURVEY, BASED ON DATA FOUND AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND, AS REFERENCED HEREON.

REFERENCE	JOB NO.
PLAT N ^o 9355	91-04

LIBERTY SURVEY, INC.
4140 RIDGE ROAD
TAYLORSVILLE, MARYLAND
410-875-0722 21157

ZONE " C "
 THIS PROPERTY IS NOT
 LOCATED IN A FLOOD
 HAZARD ZONE.



"INSERT"
 SCALE: 1" = 30'

LOCATION SURVEY
 #16642 BAHNER COURT
 LOT 12 "QUAIL MEADOW"
 PLAT # 9355
 4TH ELECTION DISTRICT
 HOWARD COUNTY, MD.
 DEED: 2962 - 591

5/4/03
 Proposed Above
 Ground Pool O.K.
 KN

BAHNER COURT
 (50' R/W)
 22' PAVING

J. S. Downey Jr.
 STATE OF MARYLAND
 TILGHMAN DOWNEY, JR.
 LICENSED PROFESSIONAL SURVEYOR
 No. 10118

I HEREBY CERTIFY THAT THE LOT SHOWN HEREON HAS BEEN SURVEYED FOR THE PURPOSE OF LOCATING ALL IMPROVEMENTS ONLY. THE PLAT IS A BENEFIT TO THE CONSUMER ONLY INSOFAR AS IT IS REQUIRED BY A LENDER OR A TITLE COMPANY OR ITS AGENT IN CONNECTION WITH CONTEMPLATED TRANSFER, FINANCING OR REFINANCING. THE PLAT IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATION OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE IMPROVEMENTS. THE PLAT DOES NOT PROVIDE FOR THE ACCURATE IDENTIFICATION OF PROPERTY LINES OR BOUNDARIES.

02 - 5207

Site Rite Surveying, Inc.
 200 E. Joppa Road
 Shell Building, Room 101
 Towson, MD 21286
 (410)828-9060

DRAWN BY L.B.	CHECKED BY V.J.M.	SURVEYED BY L.B.	SCALE 1" = 100'	DATE 1/3/03
------------------	----------------------	---------------------	--------------------	----------------

B 1 2232 SEQUENCE NO. (DP USE ONLY)
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

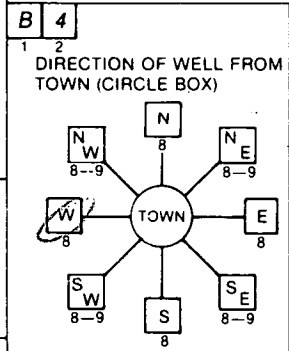
STATE OF MARYLAND
 PERMIT TO DRILL WELL
 please print or type

STATE PERMIT NUMBER
 HO-88-0558
 fill in this form completely

Date Received (APA) 04/12/89
 OWNER INFORMATION
 CARMAN ASSOCIATES
 AC BOX 122
 ELLICOTT CITY MD 21043

LOCATION OF WELL
 HOWARD COUNTY
 SWAIL MEADOWS
 SECTION 12 LOT 12
 LISBON
 MILES FROM TOWN 1.5 MI

DRILLER INFORMATION
 Joseph L. Mayne License No. 238
 Joseph L. Mayne Well Drilling
 5512 Ridge Rd. Mt. Airy 21771
 Joseph L. Mayne 4/10/89



Bahara Court
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 DISTANCE FROM ROAD 200 FT

WELL INFORMATION
 APPROX. PUMPING RATE (GAL. PER MIN.) 5
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500

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 County A-42107
 STATE SIGNATURE DATE ISSUED 04/18/89
 NORTH GRID 550000 EAST GRID 0774000

APPROXIMATE DEPTH OF WELL 260 FEET

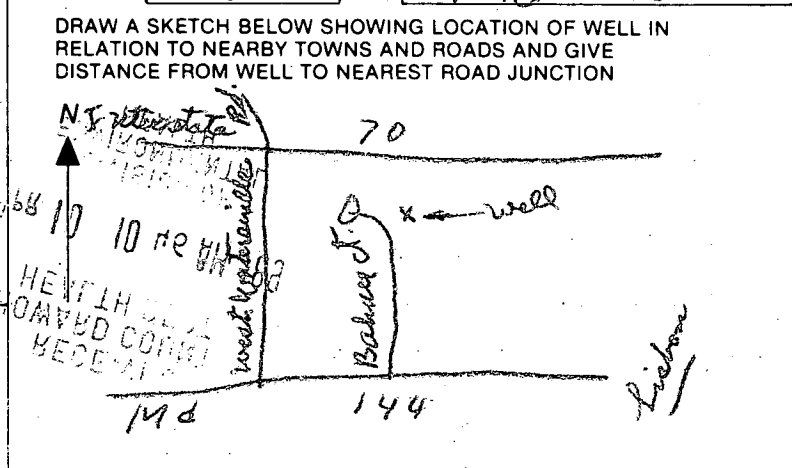
APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING (circle one)
 BORED (or Augered) JETTED Jetted & DRIVEN
 AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary)
 CABLE REVERSE-ROTary DRIVE-POINT

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X
 SOURCES OF DRILLING WATER
 1. WELL
 WRITE THE BOX NUMBER FROM THE MAP HERE
 E 774
 N 550

GROUT 5-30-89
 #2 GROUT IS BAGS OBS'D
 50' OPEN
 90' CASING
 1 1/2' CASING A.G.
 OK TAG MR 5/30/89

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



Not to be filled in by driller (OEP USE ONLY)
 APPROP. PERMIT NUMBER GAP
 FORCE SA WRITE INITIALS IN BOX PERMIT No. HO-88-0558

SPECIAL CONDITIONS

C1 **2415** SEQUENCE NO. (DENV USE ONLY)
 (THIS NUMBER IS TO BE PUNCHED IN COLS 1-6 ON ALL CARDS)

STATE OF MARYLAND
WELL COMPLETION REPORT
 FILL IN THIS FORM COMPLETELY
 PLEASE PRINT OR TYPE

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
 COUNTY NUMBER **A-42107**

DATE Received [] [] [] [] [] [] DATE WELL COMPLETED **052059** Depth of Well **145'** (TO NEAREST FOOT) PERMIT NO. FROM "PERMIT TO DRILL WELL" **HO-88-0558**

OWNER **CAEMAN ASSOCIATES** last name **DANNER** first name TOWN **LUBRON**
 STREET OR RFD SUBDIVISION **QUAL MEADOWS** SECTION LOT **X12**

WELL LOG
 Not required for driven wells

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

DESCRIPTION (Use additional sheets if needed)	FEET		Check if water bearing
	FROM	TO	
Brown Shale	0	85	
Bl. m. Rock	85	195	

GROUTING RECORD
 WELL HAS BEEN GROUTED (Circle Appropriate Box) **Y** **N**
 TYPE OF GROUTING MATERIAL
 CEMENT **CM** BENTONITE CLAY **BC**
 NO. OF BAGS **15** NO. OF POUNDS **1410**
 GALLONS OF WATER **70**
 DEPTH OF GROUT SEAL (to nearest foot)
 from **0** ft. to **50** ft.
 (enter 0 if from surface)

CASING RECORD
 casing types insert appropriate code below
ST **CO** STEEL CONCRETE
PL **OT** PLASTIC OTHER
 MAIN CASING TYPE **ST** Nominal diameter **6** inch Total depth of main casing **90** feet

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

SCREEN RECORD
 screen type or open hole insert appropriate code below
ST **BR** **HO** STEEL BRASS OPEN HOLE
PL **OT** PLASTIC OTHER

C2

EACH SCREEN	DEPTH (nearest ft.)	
	1	2
1	80	145
2		
3		

SLOT SIZE 1 2 3
 DIAMETER OF SCREEN [] [] [] (NEAREST INCH)
 from [] to []

CIRCLE APPROPRIATE LETTER
A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
E ELECTRIC LOG OBTAINED
P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 10.17.13 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS IDENT. NO. **738**
 DRILLERS SIGNATURE [Signature]
 (MUST MATCH SIGNATURE ON APPLICATION)
 SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

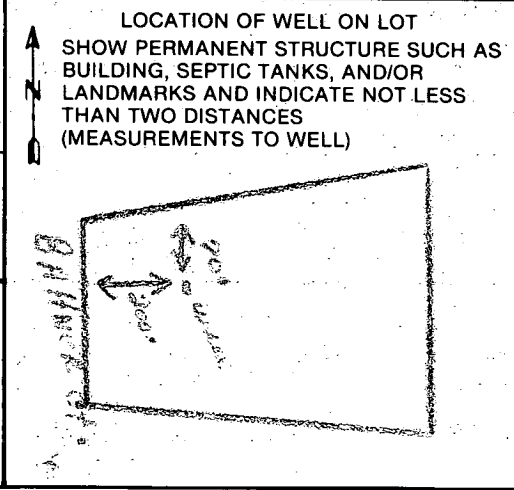
GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)
 T (E.R.O.S.) WQ
 70 [] 72 [] 74 [] 75 [] 76 []
 TELESCOPE CASING LOG INDICATOR OTHER DATA

C3

PUMPING TEST
 HOURS PUMPED (nearest hour) **3**
 PUMPING RATE (gal. per min. to nearest gal.) **10**
 METHOD USED TO MEASURE PUMPING RATE **Bucket**
 WATER LEVEL (distance from land surface)
 BEFORE PUMPING **50**
 WHEN PUMPING **95**
 TYPE OF PUMP USED (for test)
A air **P** piston **T** turbine
C centrifugal **R** rotary **O** other (describe below)
J jet **S** submersible

PUMP INSTALLED
 DRILLER WILL INSTALL PUMP YES **NO**
 IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE
 TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE: **29**
 CAPACITY: GALLONS PER MINUTE (to nearest gallon) [] [] [] [] []
 PUMP HORSE POWER [] [] [] [] []
 PUMP COLUMN LENGTH (nearest ft.) [] [] [] [] []
 CASING HEIGHT (circle appropriate box and enter casing height)
+ above } LAND SURFACE (nearest foot) [] []
- below }





HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Boyd, M.D., County Health Officer

Reply to: Charles B. Streaker
313-2640 or 313-2641

April 16, 1993

Mr. Larry Barnard
1031 St. Michael's Road
Mt. Airy, Maryland 21771

RE: Lot 12, Sec. 1, Quail Meadows
16642 Bahner Court
Well Tag No. HO-88-0558

Dear Mr. Barnard:

This is to advise you that the septic system was installed, inspected and approved on October 16, 1992.

The water sample recently submitted for testing was free of coliform and fecal coliform bacteria at the time of sampling and is bacteriologically safe for drinking.

The nitrate sample result was previously documented to be 15.3 parts per million. A nitrate device has not been installed to treat the excessive nitrate contamination.

COMAR 26.04.04.09 prohibits approval of any water supply with a nitrate-nitrogen contaminant level in excess of 10 parts per million. This department will grant a temporary deviation to that section of the regulation on condition that the nitrate removal system is installed within a period of thirty (30) days and the nitrate removal system effectively maintains the nitrate-nitrogen contaminant level below the 10 parts per million requirement.

Furthermore, it will be necessary for you to comply with the following conditions:

1. The system must be properly operated and maintained continuously, in accordance with the service contract for the life of the residence. You must supply this department with a copy of that contract.
2. It is recommended that a yearly nitrate analysis be performed.
3. If, in the future, you decide to sell or rent your home, you must make any potential buyer/tenant aware of the above condition.

Bureau of Environmental Health
3525-H Ellicott Mills Drive Ellicott City, Maryland 21043-4544
Water and Sewerage, Permits 313-2640 Community Environmental Health 313-2642
Technical Services 313-2644 Director 313-2645 TDD 313-2323

INTERIM CERTIFICATE OF POTABILITY

This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under permit(s) HO-88-0558. No guarantee can be given for health protection beyond this date of issue. Based upon satisfactory investigation and evaluation by the Howard County Health Department, the Maryland Department of the Environment accepts this well system as required by COMAR 26.04.04.09.

This certificate may become final upon completion of the final bacteriological test which is to be taken by the county health department within six (6) months. The well owner accepts his responsibilities under COMAR 26.04.04.10.

May 30, 1989
Date Well Approved

April 8, 1993
Date of Water Sample

Charles B. Streaker, R.S.
Approving Authority
Charles B. Streaker, R.S.
Water and Sewerage Program

✓
CBS:hs