

11/7/89 2 PM  
11/8/89 12:00

03-312445

# PERMIT

P 45080

SEWAGE DISPOSAL SYSTEM

A 38158

MARYLAND STATE DEPARTMENT OF HEALTH DISTRICT 3rd

**HOWARD COUNTY**  
BUREAU OF ENVIRONMENTAL HEALTH  
461-9933

DATE 10/13/89

DATE SYSTEM APPROVED 11/8/89

INSPECTOR M. RIFKIN

INDEXED

Frall Septic Service, Inc. IS PERMITTED TO INSTALL  ALTER

ADDRESS P. O. Box 659, Mt. Airy, Maryland 21771 PHONE 795-5674

SUBDIVISION Meadowood ROAD 1218 Crystal Ridge Rd LOT 28

PROPERTY OWNER Martucci Homes, Inc. PHONE: 792-2055

ADDRESS \_\_\_\_\_

IF GARBAGE GRINDER IS USED INCREASE SEPTIC TANK CAPACITY BY 50% AND ABSORPTION AREA BY 22%.

GARBAGE GRINDER? YES \_\_\_\_\_ NO

SEPTIC TANK CAPACITY 1250 GALLONS NUMBER OF BEDROOMS 4

TRENCHES - 180 sq. ft. per bedroom. Trench to be 2 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 7 feet below original grade. Effective area begins at 3 feet below original grade. 4 feet of stone below distribution pipe.

LOCATION - Start the first trench 235 feet from the front lot line and 120 feet from the left lot line as seen when facing the lot from Crystal Ridge Road. Run trenches on contour toward the right lot line.

NOTE - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. OK/CW

PLANS APPROVED BY Sid Abel DATE 5/16/89

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

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 TRENCHES ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCHES!

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 40 PVC OR ABS

PERMIT VOID AFTER TWO YEARS

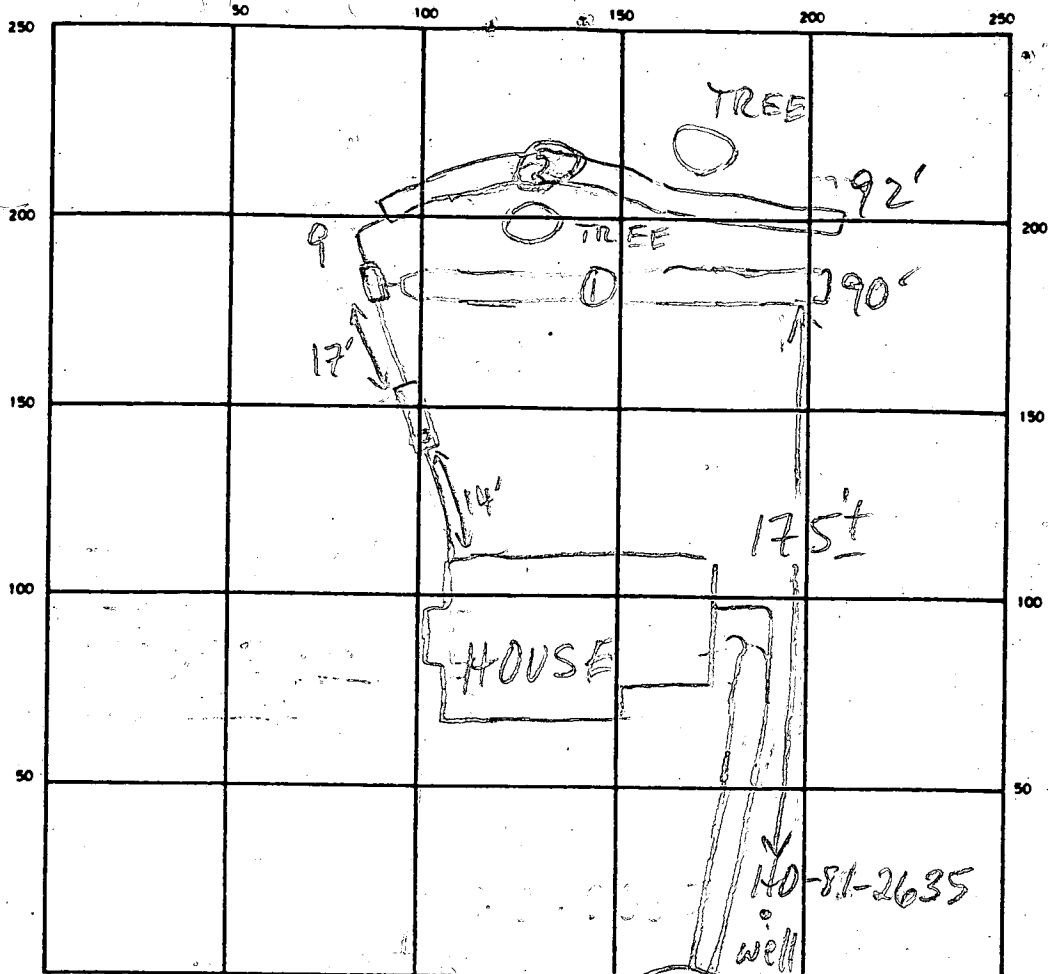
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA OR PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET, MANHOLE TO GRADE REQUIRED

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

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

\*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEMS.

A 38158



INDICATE NORTH — NAME ADJOINING ROADWAY AS BASE LINE  
 CRYSTAL RIDGE CT

SEPTIC TANK LEVEL 1250 GAL - OK CLEANOUTS OK  
 DISTRIBUTION BOX LEVEL OK - BAFFLE IN  
 DRAIN FIELD/TILE FIELD DEPTH 7 FT. TRENCH WIDTH 2 FT. INLET DEPTH 3 FT.  
 EFFECTIVE GRAVEL DEPTH 4 FT. TOTAL LENGTH 92 FT. 182  
 NUMBER OF TRENCHES 2 ONE SIDEWALL/BOTTOM AREA 728 SQ. FT.  
 DRYWELL INSIDE DIAMETER — FT. EFFECTIVE DEPTH BELOW INLET — FT.  
 ABSORBENT AREA — SQ. FT.

REMARKS 11/7/89 OK TO STONE TRENCH ① & START ② MR  
11/8/89 #1 OK TO STONE ② & BACKFILL ① MR  
11/8/89 #2 OK TO COVER ALL MR

DATE SYSTEM APPROVED 11/8/89 INSPECTOR M. R. F. K. in

# APPLICATION

PERCOLATION TESTING

A 38158

P \_\_\_\_\_

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

*12/12/88  
perc OK'd  
perm OK'd  
approved plat*

DISTRICT \_\_\_\_\_

DATE 11/28/86

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 Springhill Associates - c/o D.S. Thaler & Associates, Inc.

ADDRESS 11 Warren Road, Baltimore, MD 21208 PHONE (301) 484-4100

PROSPECTIVE BUYER N/A MARTUCCI HOMES, INC. 792-2055

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

PROPERTY LOCATION:

SUBDIVISION Meadowood LOT NO. 28

ROAD AND DESCRIPTION Henryton Road - approximately 4000' north of Tunnel Road  
Howard County, Maryland 1218 CRYSTAL RIDGE RD

TAX MAP 10 PARCEL # 139

SIZE OF LOT 3+ Acres 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.

*Mike Sedgwick*  
(SIGNATURE OF APPLICANT)

APPROVED BY Sally Abel FOR Deep Trenches DATE 5-16-89

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

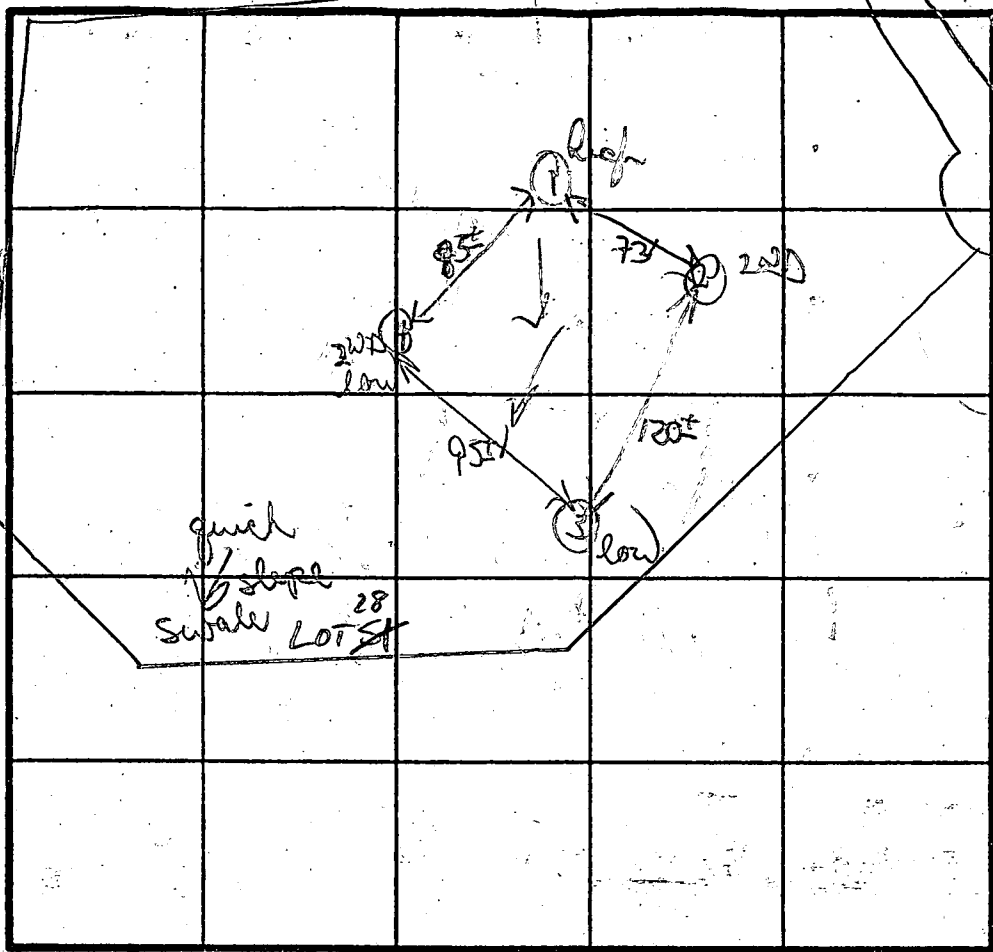
HOLD PENDING FURTHER TESTS \_\_\_\_\_ DATE \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING certified plat w/ holes, sub: plat area may need to be expanded -OR to do so for 10K

LOG. PERMIT SIGNED AND RETURNED 5-16-89  
BP 25749 SK

# THIS IS NOT A PERMIT

185 D / BORM  
 INLET 3'  
 MAX D. 7'



SOIL PROFILE  
 orange clay  
 loam 2 1/2'  
 brown  
 yellow  
 orange  
 silty  
 loam  
 w/ 5%  
 weathered  
 material  
 b

orange  
 clay 2 1/2-3'  
 to tan brown  
 silty loam  
 w/ 10% - small  
 med frags  
 weathered  
 5' b

12' D  
 2 3

11' D

orange yellow  
 silty  
 loam

few  
 isolated  
 scattered  
 med frags  
 11 1/2' D

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

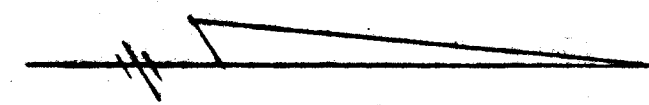
↓ TO HANCKTON Rd.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1' DROP		TIME	
			START	STOP	START	STOP		
12/2/86	1	2 1/2'	1113	1115	1113	1117	2 MIN	
		8' m	1114	1116	1116	1118	2 MIN	
		12' D	bottom (see profile)					
	2	11 1/2' D	VISUAL ONLY					
		11 1/2' D	bottom (see profile)					
	3	3 1/2'	1117	1119	1119	1121	2 MIN	
		12' D	bottom (see profile #2)					
	4	3 1/2'	1115	1122	2 1/2" (slow going)		slow at	
		11' D	bottom (see profile)					3'-4'
		3 3/4'	1127	1141	1141	1205	24 MIN OK below	

REMARKS: short OK, bad soils OK - OK to expand orientation course; strip & tested as staked  
 TYPE OF SOIL: some clay + clay loam 3-4', other yellow orange silty loam w/ 5% weathered material  
 TESTED BY: B. W. [unclear]  
 ALSO PRESENT: Jack, Rocky, [unclear]

EH-12-1079

MEADOWOOD SECTION TWO





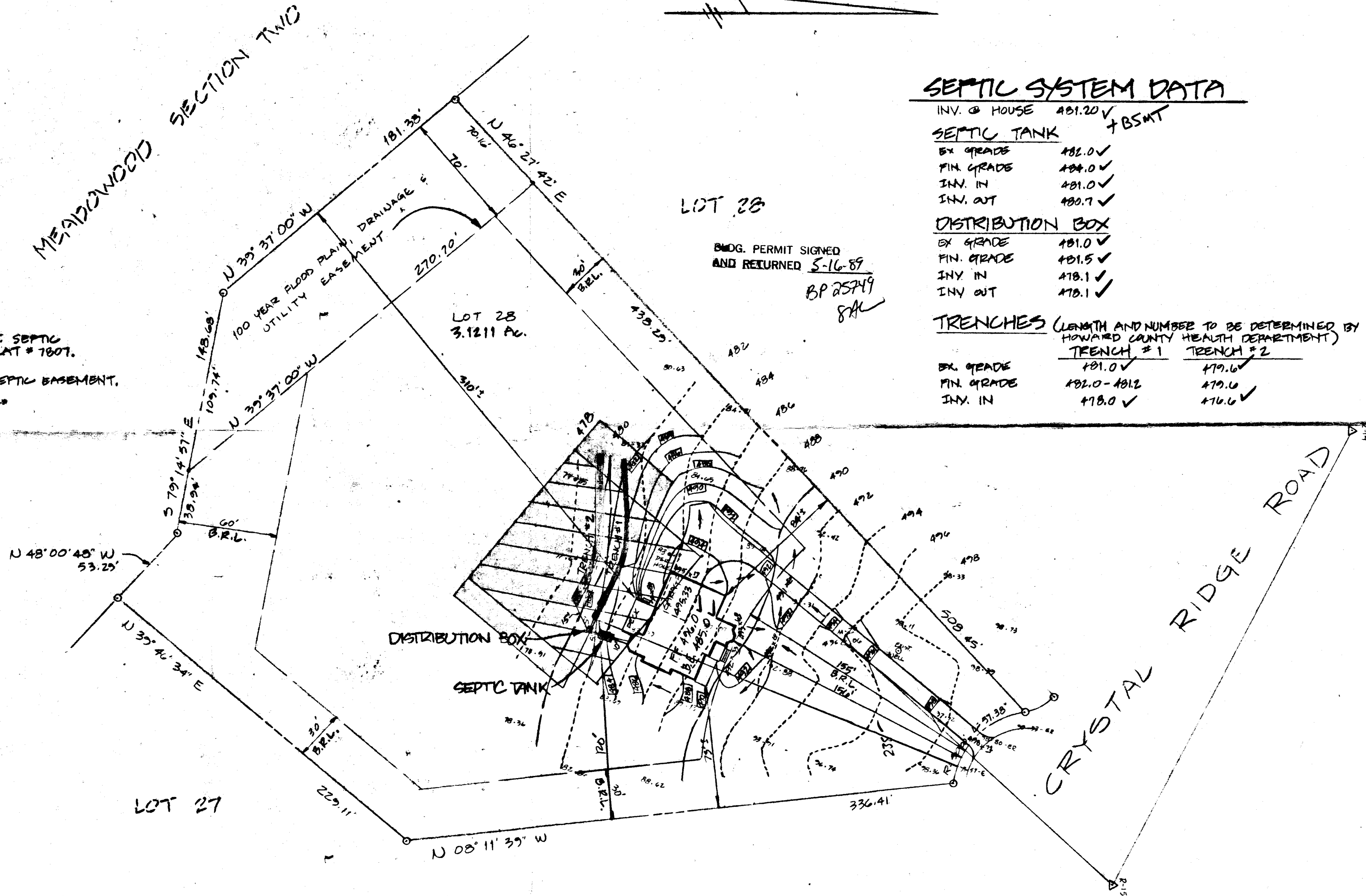
**SEPTIC SYSTEM DATA**

INV. @ HOUSE	481.20 ✓
SEPTIC TANK	+ BSMT
EX GRADE	482.0 ✓
FIN. GRADE	484.0 ✓
INV. IN	481.0 ✓
INV. OUT	480.7 ✓
DISTRIBUTION BOX	
EX GRADE	481.0 ✓
FIN. GRADE	481.5 ✓
INV. IN	478.1 ✓
INV. OUT	478.1 ✓

TRENCHES (LENGTH AND NUMBER TO BE DETERMINED BY HOWARD COUNTY HEALTH DEPARTMENT)

	TRENCH #1	TRENCH #2
EX GRADE	481.0 ✓	479.6 ✓
FIN. GRADE	482.0-481.2	479.6
INV. IN	478.0 ✓	476.6 ✓

NOTE:  DENOTES PRIVATE SEPTIC EASEMENT PER PLAT # 7807.  
 DENOTES REVISED SEPTIC BASEMENT.



LOT 28

LOT 28  
3.1211 Ac.

BMDG. PERMIT SIGNED  
AND RETURNED 5-16-89  
BP 25749  
SAL

DISTRIBUTION BOX  
SEPTIC TANK

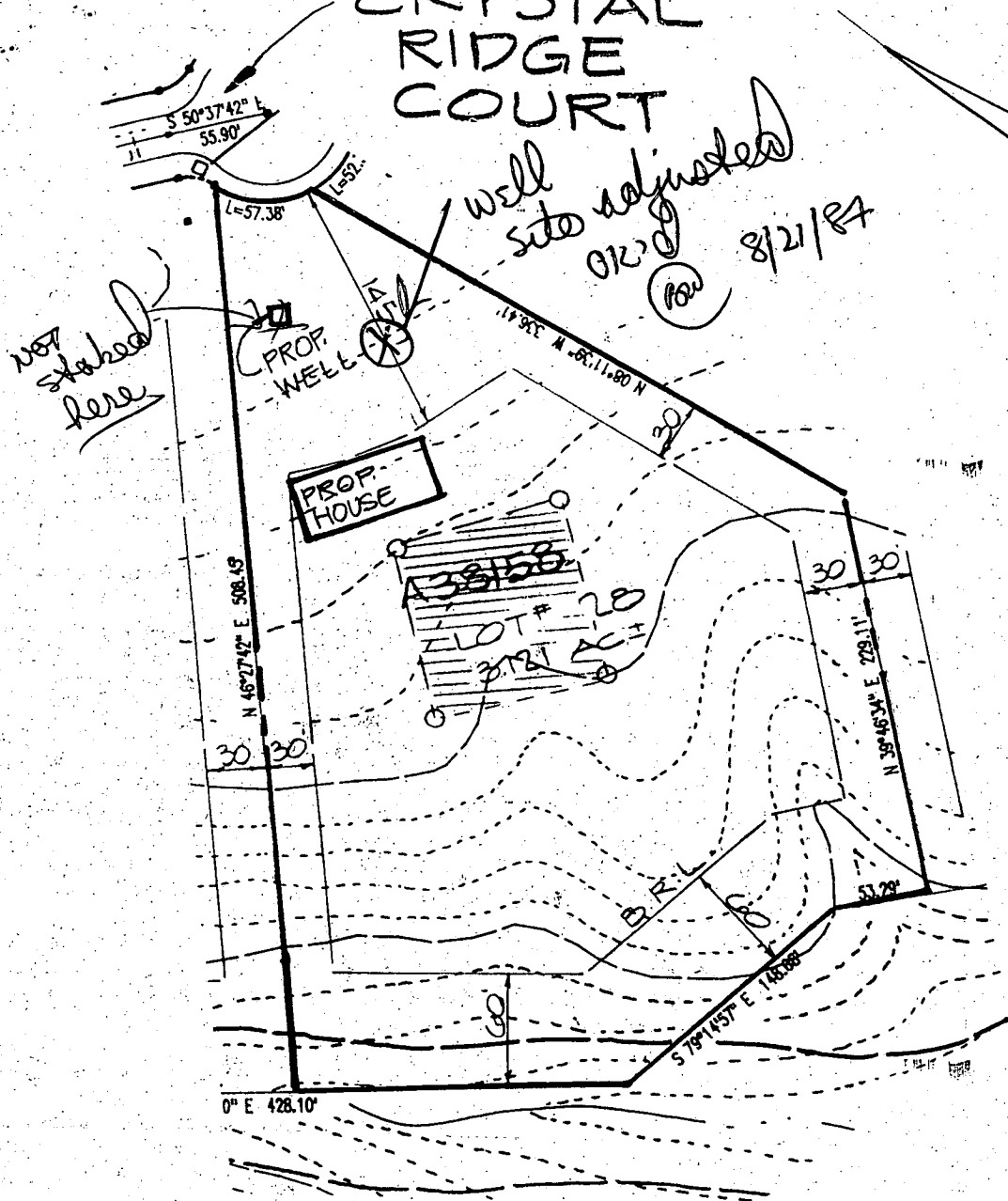
LOT 27

CRYSTAL RIDGE ROAD

SHANABERGER & LANE  
8726 TOWN & COUNTRY BLVD.  
SUITES 106 & 107  
ELLICOTT CITY, MD 21043  
(301) 461-9563

SITE PLAN  
LOT 28  
MEADOWOOD  
PLAT # 7807  
HOWARD COUNTY, MD.  
SCALE: 1"=50'  
DATE: MAY 4, 1989

# CRYSTAL RIDGE COURT



## OWNER

SPRING HILL ASSOCIATES  
 RUTH H. WESTON  
 1427 ROUTE 32  
 SYKESVILLE, MD. 21784

## DEVELOPER

KOREN DEVELOPMENT CORP. INC.  
 5423 WATERCRESS PLACE  
 COLUMBIA, MARYLAND 21045

RECEIVED  
 JUN 30 1987  
 L.F. EASTERDAY, INC.

D.S. Thaler & Assoc. Inc.  
 CIVIL ENGINEERS · SURVEYORS  
 LANDSCAPE ARCHITECTS  
 11 WARREN ROAD  
 BALTIMORE, MARYLAND 21208  
 (301) 484-4100

## LOT # 28 MEADOWOOD

SECTION ONE

TAP MAP 10  
 3RD ELECTION DISTRICT  
 SCALE: 1" = 100'

PARCEL 139  
 HOWARD COUNTY, MARYLAND  
 DATE: JUNE 25, 1987

B 7 5208

SEQUENCE NO. (OEP USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

please print or type

OEP PERMIT NUMBER

MD-81-2635

fill in this form completely

Date Received 4/19/88

071988

OWNER INFORMATION

SPRING HILL ASSOC

1432 RT 32

W FRIENDSHIP MD 21794

DRILLER INFORMATION

George F. Easterday

40

Driller's Name

77 License No. 80

L. Franlin Easterday, Inc.

Firm Name

9265 Br. Ch. Rd., Mt. Airy, Md. 21771

Address

George F. Easterday 4/12/88

Signature

Date

WELL INFORMATION

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

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- D HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)
F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
I INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)
P PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL)
T TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

APPROXIMATE DEPTH OF WELL 200 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING (circle one)

- BORED (or Augered)
JETTED
Jettied & DRIVEN
AIR-ROtary
AIR-PERcussion
ROtARY (Hydraulic Rotary)
CABLE
REVerse-ROtary
DRive-POINT

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
D 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 (OEP USE ONLY)

APPROP. PERMIT NUMBER GAP

FORCE SA PERMIT No. MD-81-2635

SPECIAL CONDITIONS

B 3

LOCATION OF WELL R-3965

HOWARD

MEADOWOOD

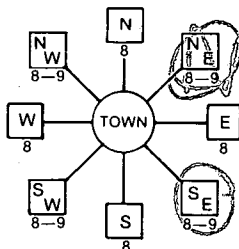
SECTION 1 LOT 28

SWISS IDEAL

MILES FROM TOWN (enter 0 if in town) 4 MI

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



CRYSTAL RIDGE COURT
HARRINGTON RD

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



DISTANCE FROM ROAD ENTER FT or MI FT

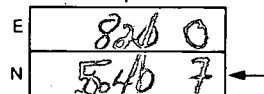
NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

HOWARD A 38158
COUNTY NAME COUNTY NO.
OEP STATE HEALTH
SIGNATURE INSERT S
DATE ISSUED 032988
CO SIGNATURE EXP. DATE
NORTH GRID 547000 EAST GRID 0820000

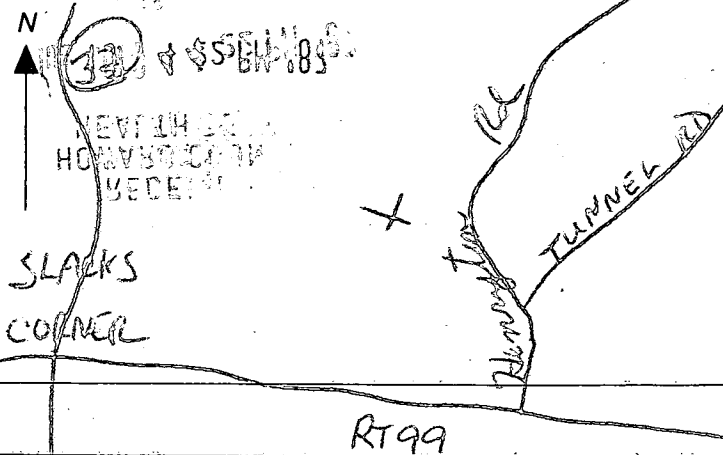
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

- SOURCES OF DRILLING WATER
1. WELL
2.
3.

WRITE THE BOX NUMBER FROM THE MAP HERE



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



C1 8535 SEQUENCE NO. (OEP 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 A-38158

DATE Received

DATE WELL COMPLETED 04/19/88

Depth of Well 420 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 40-81-2635

OWNER Crystal Hill Assoc. STREET OR RD. last name (Crystal Ridge Ct. first name TOWN Sikesville SUBDIVISION Meadowood SECTION 1 LOT 28

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 (Use additional sheets if needed), FEET (FROM, TO), Check if water bearing. Rows include Topsoil, Br. Mica, Tan mica, Gray mica, etc.

GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL CEMENT CM BENTONITE CLAY BC NO. OF BAGS 20 NO. OF POUNDS 2000

CASING RECORD casing types insert appropriate code below MAIN CASING Nominal diameter Total depth

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

SCREEN RECORD screen type or open hole insert appropriate code below

DEPTH (nearest ft.) 420 SLOT SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH)

PUMPING TEST HOURS PUMPED (nearest hour) 6 PUMPING RATE (gal. per min. to nearest gal.) METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 61 WHEN PUMPING 220 TYPE OF PUMP USED (for test) 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

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)

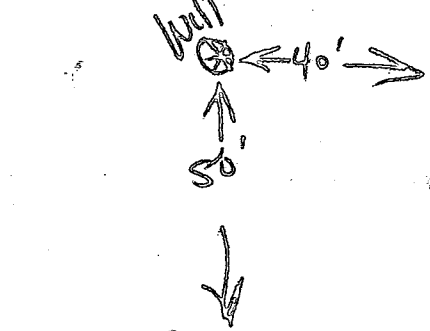
CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL

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. 40 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GRAVEL PACK from to FLOWING WELL INSERT F IN BOX 68

OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) WQ TELESCOPE LOG OTHER DATA



*Address*  
~~1012000~~ *Friday*

Review OK 8/25/88 CW

8:00

FIELD DATA SHEET  
 HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 81-2635  
 Location of property (road) CRYSTAL RIDGE Ct.  
 Subdivision MEADOWOOD Lot 28 Block \_\_\_\_\_ Plat \_\_\_\_\_ Sec. 1  
 Well Driller G. EASTRDAY Owner SPRING HILL ASSOC.

Depth of well 420 1 GPM  
 Distance of measuring point (M.P.) above ground 2'  
 Static water level (S.W.L.) below M.P. 61'

I. High rate pumping -- reservoir drawdown

Time pump started 8:20 Pumping rate 10 gpm  
 Total time 40 min to reach pumping water level 225' 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 $\frac{1}{2}$ gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
9:00	225'	55 sec	$\frac{1}{4}$	
9:15	221'	45	pump at 360' R. Hanan	
9:30	219'	48		1 $\frac{1}{4}$
9:45	220'	48		1 $\frac{1}{4}$
10:00	220'	48		1 $\frac{1}{4}$
10:15	220'	48		1 $\frac{1}{4}$
10:30	220'	48		1 $\frac{1}{4}$
10:45	220'	48		1 $\frac{1}{4}$
11:00	220'	48		1 $\frac{1}{4}$
11:15	220'	48		1 $\frac{1}{4}$
11:30	220'	48		1 $\frac{1}{4}$
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12:45	219'	48		1 $\frac{1}{4}$
1:00	220'	48		1 $\frac{1}{4}$
1:15	220'	48		1 $\frac{1}{4}$
1:30	220'	48		1 $\frac{1}{4}$
1:45	220'	48		1 $\frac{1}{4}$
2:00	220'	48		1 $\frac{1}{4}$
2:15	220'	48		1 $\frac{1}{4}$
2:30	220'	48		1 $\frac{1}{4}$
2:45	220'	48		1 $\frac{1}{4}$
HD-2243:00	220'	48		1 $\frac{1}{4}$



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 X Replacement \_\_\_\_\_  
Receipt # \_\_\_\_\_ Date 12/27/89  
Name of Installer Carroll Water Systems Inc Telephone 876-6880  
License Number P.I 074  
Certified Well Pump Installer X Well Driller \_\_\_\_\_ Registered Plumber \_\_\_\_\_  
Name of Property Owner Scott Mastover Telephone 792-2055  
Subdivision Medowood Lot # 28 Well Tag # \_\_\_\_\_  
Site Address \_\_\_\_\_

Pump  
1. Type  
a. Deep well jet \_\_\_\_\_  
b. Shallow well jet \_\_\_\_\_  
c. Submersible X  
2. Make DEWING  
3. Model # 4X1W21  
4. Capacity 5 GPM  
5. Pump exceeds well capacity Yes X No \_\_\_\_\_  
6. If Yes, is low pressure cutoff switch installed? Yes X No \_\_\_\_\_  
7. What methods are used to protect the pump and electrical wiring from vibrations? Torque arrestors X Cable guards \_\_\_\_\_ Other \_\_\_\_\_

Motor  
1. Horsepower 3/4  
2. RPM 3450  
3. Voltage \_\_\_\_\_  
a. 110 \_\_\_\_\_  
b. 220 X

Pitless Adapter  
1. Make MANTUSON  
2. Model # P10X  
3. Depth 4'

Tank  
1. Capacity 120  
2. Pressure relief valve? Yes

Piping  
1. Type Plastic  
2. Size 1"  
3. NSF and/or BOCA Code approved Yes  
4. Depth of supply line 4'

Well data  
1. Depth 425 ft.  
2. Yield 1.2 GPM  
3. Static water level \_\_\_\_\_ ft.  
4. Will water supply be disinfected by installer? NO

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.

Signature of Applicant: \_\_\_\_\_

Date: 12/27/89

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