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File
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PERMIT

P 43945-

A 38624

SEWAGE DISPOSAL SYSTEM
MARYLAND STATE DEPARTMENT OF HEALTH • DISTRICT 3rd

HOWARD COUNTY
BUREAU OF ENVIRONMENTAL HEALTH
461-9933

DATE 4/07/89

DATE SYSTEM APPROVED 5/09/'89

INSPECTOR C. B. J.

INDEXED

Walter W. King Plumbing & Heating Contractors IS PERMITTED TO INSTALL X ALTER

ADDRESS 5305 King's Court Frederick, Maryland 21701 PHONE 662-6990

SUBDIVISION Willow Springs ROAD 1703 Willow Springs Dr LOT 1

PROPERTY OWNER Willow Springs Limited Partnership

ADDRESS _____

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

GARBAGE GRINDER? YES X NO

SEPTIC TANK CAPACITY 2000 GALLONS NUMBER OF BEDROOMS 4

TRENCHES - 220 sq. ft. per bedroom with garbage disposal. Trench to be 3 feet wide.

Inlet 3 feet below original grade. Bottom maximum depth 4.5 feet below original grade. Effective area begins at 3.0 feet below original grade.

1.5 feet of stone below distribution pipe.

LOCATION - Start the first trench 140 feet off the front lot line (Willow Springs Drive) and 310 feet from the left (Heatherwood Drive) lot line. Run trenches on contour toward the front 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 2/14/89

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 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 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

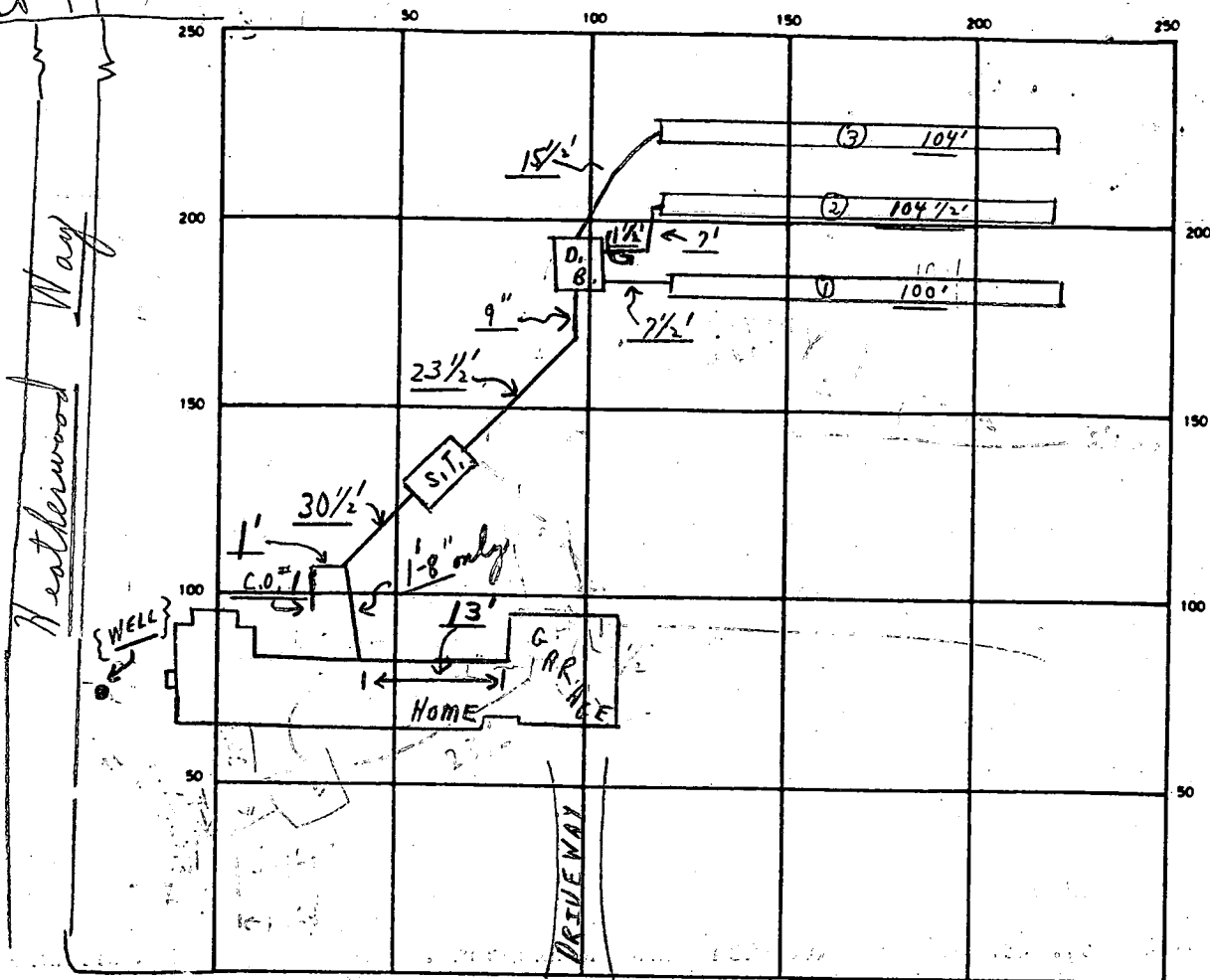
NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

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

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

A 38624

← RA 99 →



INDICATE NORTH — NAME ADJOINING ROADWAY AS BASE LINE

WILLOW SPRINGS DR →

SEPTIC TANK. LEVEL OK CLEANOUTS OK / OK

DISTRIBUTION BOX. LEVEL OK (Baffle in)

DRAIN FIELD/TILE FIELD. DEPTH 4.5 FT. TRENCH WIDTH 3 FT. INLET DEPTH 3' FT.

EFFECTIVE GRAVEL DEPTH 1.5 FT. TOTAL LENGTH ① 104' ② 104 1/2' ③ 100' } 308 1/2 FT

NUMBER OF TRENCHES 3 ONE 92.5 1/2 SQ. FT. BOTTOM AREA

DRYWELL INSIDE DIAMETER FT. EFFECTIVE DEPTH BELOW INLET FT.

ABSORBENT AREA SQ. FT.

REMARKS 5/9/89 OK TO COVER ALL WORK; FINAL
C.B.D.

DATE SYSTEM APPROVED 5/9/89 INSPECTOR Charles, Bryan, & Thurman

A 38624SUBDIVISION: Willow SpringsLOT NUMBER: 1DRY WELL OR DRY WELL AND TRENCH

	<u>Septic Tank</u>	<u>Minimum Total Square Feet</u>
3 bedroom	1000 gallon	
4 bedroom	1250 gallon	
5 bedroom	1500 gallon	

Inlet _____ feet below original grade.

Bottom maximum depth _____ feet below original grade.

Effective area begins at _____ feet below original grade.

NOTE: If trench is used to make up absorbent area, run the trench on level ground and leave a 5-foot earth buffer between dry well and trench. No trench is to exceed 100 feet in length. Trench inlet to be same as dry well, with _____ feet of stone below distribution pipe.

TRENCHESTrench to be 3 wide.Inlet 3 feet below original grade.Bottom maximum depth 4.5 feet below original grade.Effective area begins at 3.0 feet below original grade.1.5 feet of stone below distribution pipe.180 sq. ft./bedroom220 sq. ft./bedroom with
4BN/BP Garbage disposal

- NOTE:
- (1) No trench to exceed 100 feet in length.
 - (2) If more than one trench used, a distribution box is required.
 - (3) Trenches to be installed on level ground.
 - (4) Call for inspection of trench before gravel is installed.
 - (5) Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank and drywell.
 - (6) If a garbage disposal is used, increase septic tank capacity by 50% and increase absorbent sidewall area by 22%.

LOCATION: START THE FIRST TRENCH 140 FT OFF THE FRONT LOT LINE
(WILLOW SPRINGS DR.) AND 310 FT FROM THE LEFT (HEATHERWOOD DR)
LOT LINE. RUN TRENCHES ON CONTOUR TOWARD THE FRONT LOT
LINE 2-14-89 JAH

APPLICATION

PERCOLATION TESTING

A 38624

P _____

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

DISTRICT 3

DATE 12-16-1986

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 WILLOW SPRINGS Limited PARTNERSHIP
16801 WESLEY CHAPEL ROAD
ADDRESS MONKTON, MARYLAND 21111 PHONE 8722 347-8700

PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION Highlands
WILLOW SPRINGS GOLF COURSE LOT NO. 1

ROAD AND DESCRIPTION ~~N/S U.S. RTE 70 N AT LIVE STOCK ROAD~~
1703 Willow Springs Dr.

TAX MAP 9 & 15 PARCEL # 151 & 11

SIZE OF LOT 3.0 Ac.± TYPE BLDG S.F.D.
(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.

WILLOW SPRINGS INC. Partner
[Signature]
(SIGNATURE OF APPLICANT)

APPROVED BY [Signature] FOR Standard Trenches DATE 2-14-89

REJECTED BY _____ FOR _____ DATE _____

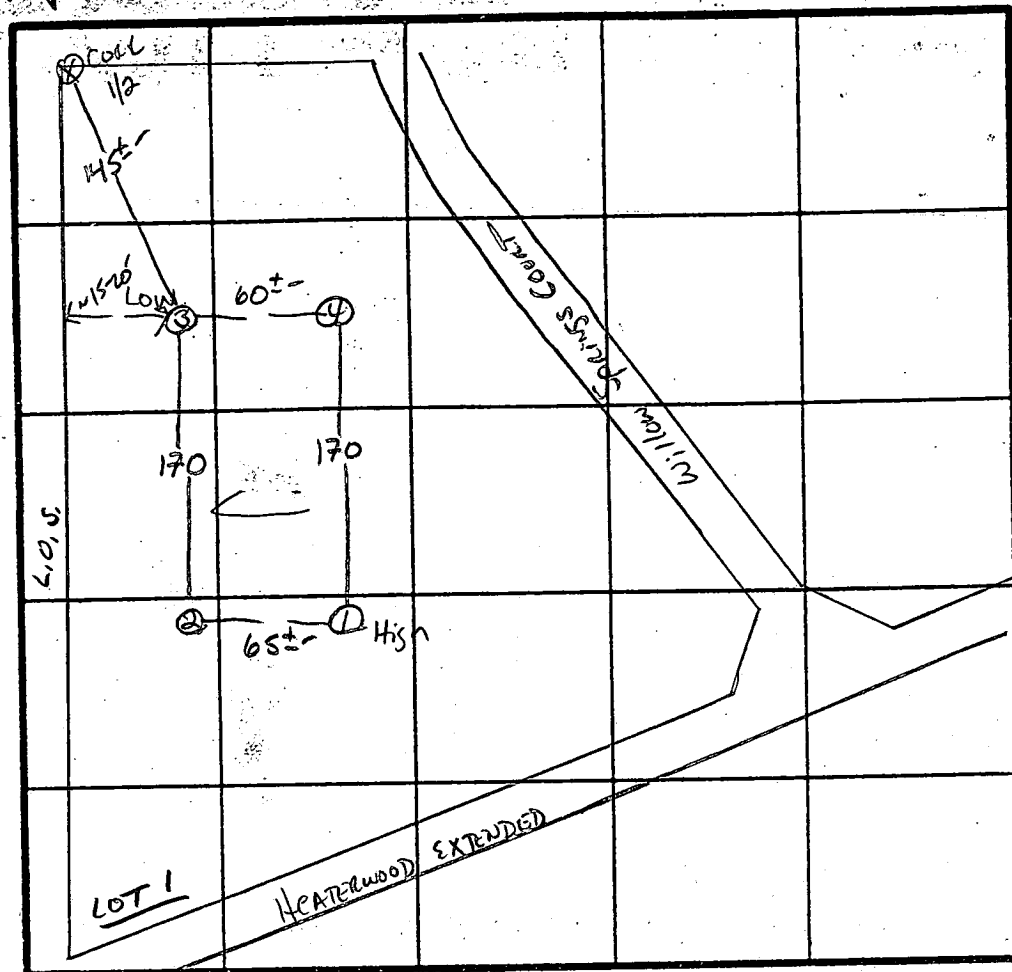
HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 4-15-87 Perc Satisfactory Hold for subdivision P.A.T. S. M.L.

BLDG. PERMIT SIGNED
AND RETURNED 3-13-89

BP23861

THIS IS NOT A PERMIT



\bar{x} PERC 5 min
180 ϕ 1BR
INLET 3"
BOTTOM 5"

[illegible]

REMARKS: HOLES DIFF THAN PLAT / Shallow Syst. only

TYPE OF SOIL Chester Lm.

TESTED BY S. Abe

12-KITTEN MAN
ALSO PRESENT _____ DAY

6/29/89 AM

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 # 44219
Date 5/11/89

Name of Installer W.W.King Plbg. & Htg. Contr., Inc.

Telephone 1-301-662-6990

License Number 2217

Certified Well Pump Installer _____ Well Driller _____ Registered Plumber X

Name of Property Owner Pulte Homes Corp.

Telephone 1-301-921-8707

Subdivision Willow Springs Lot # 1

Well Tag # HO - 88 - 0407

Site Address 1703 Willow Springs Dr.

Pump

1. Type
 - a. Deep well jet _____
 - b. Shallow well jet _____
 - c. Submersible X _____
2. Make Goulds _____
3. Model # 7EH07422 _____
4. Capacity 7 GPM
5. Pump exceeds well capacity Yes _____ No X
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 X Other _____

Motor

1. Horsepower 3/4
2. RPM _____
3. Voltage _____
 - a. 110 _____
 - b. 220 X

Pitless Adapter

1. Make Martinson
2. Model # BP-10X
3. Depth 42" min
60" max

Tank

1. Capacity 80
2. Pressure relief valve? yes

Piping

1. Type plastic 160#
2. Size 1"
3. NSF and/or BOCA Code approved X
4. Depth of supply line 42" min
60" max

Well data

1. Depth 185 ft.
2. Yield 10 GPM
3. Static water level _____ ft.
4. Will water supply be disinfected by installer? yes

A.A. OK @ 4' B.G.
MR6/29/89

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: Walter W King

Date: 5-8-89

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

GROUT 9:30 3/13/89 Review

Page _____ of _____
Date _____

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 88-0407
Location of property (road) Willow Springs Dr.
Subdivision Willow Highlands Lot 1 Block Plat Sec.
Well Driller R. Mayne Owner Willow Springs LTD

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

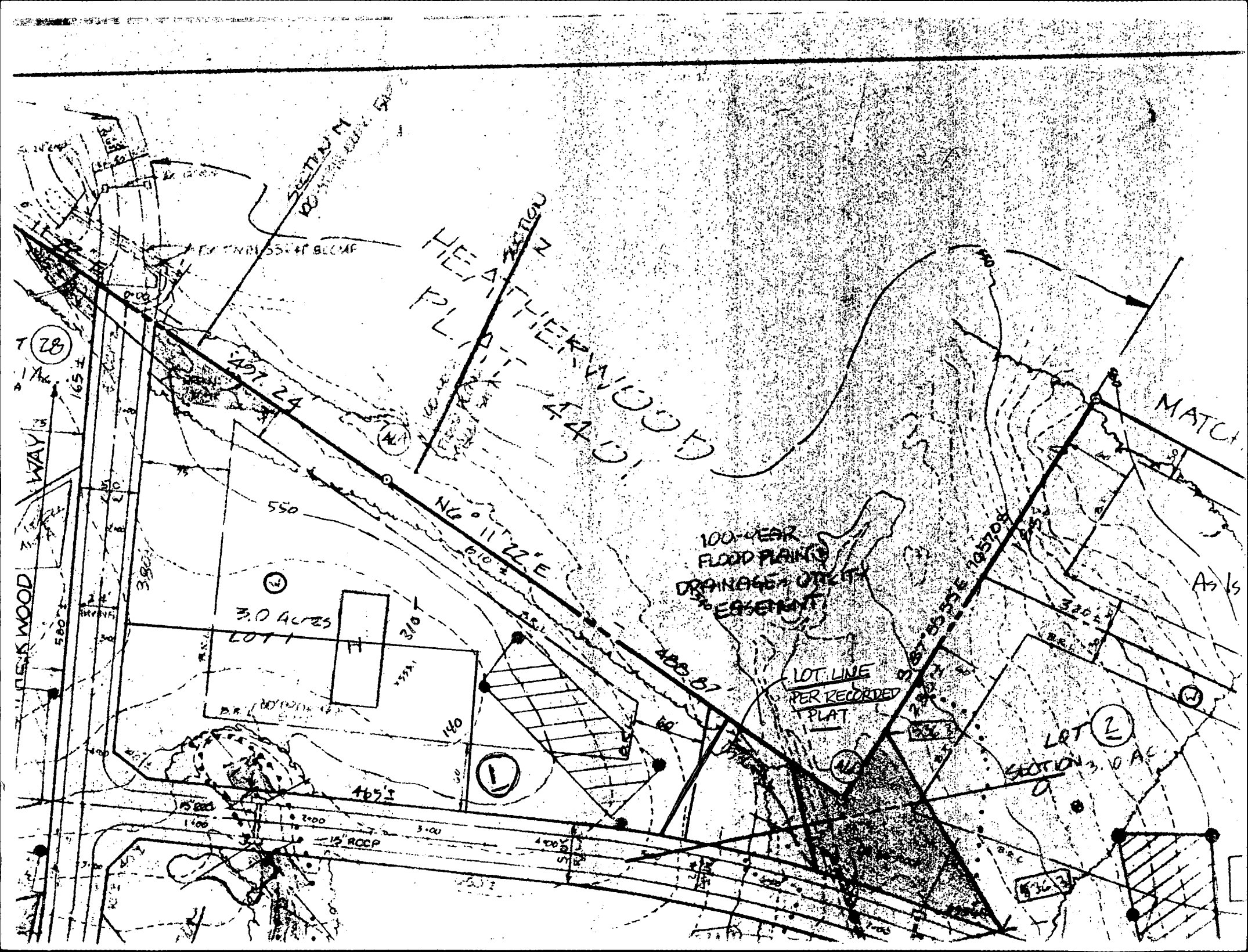
I. High rate pumping -- reservoir drawdown

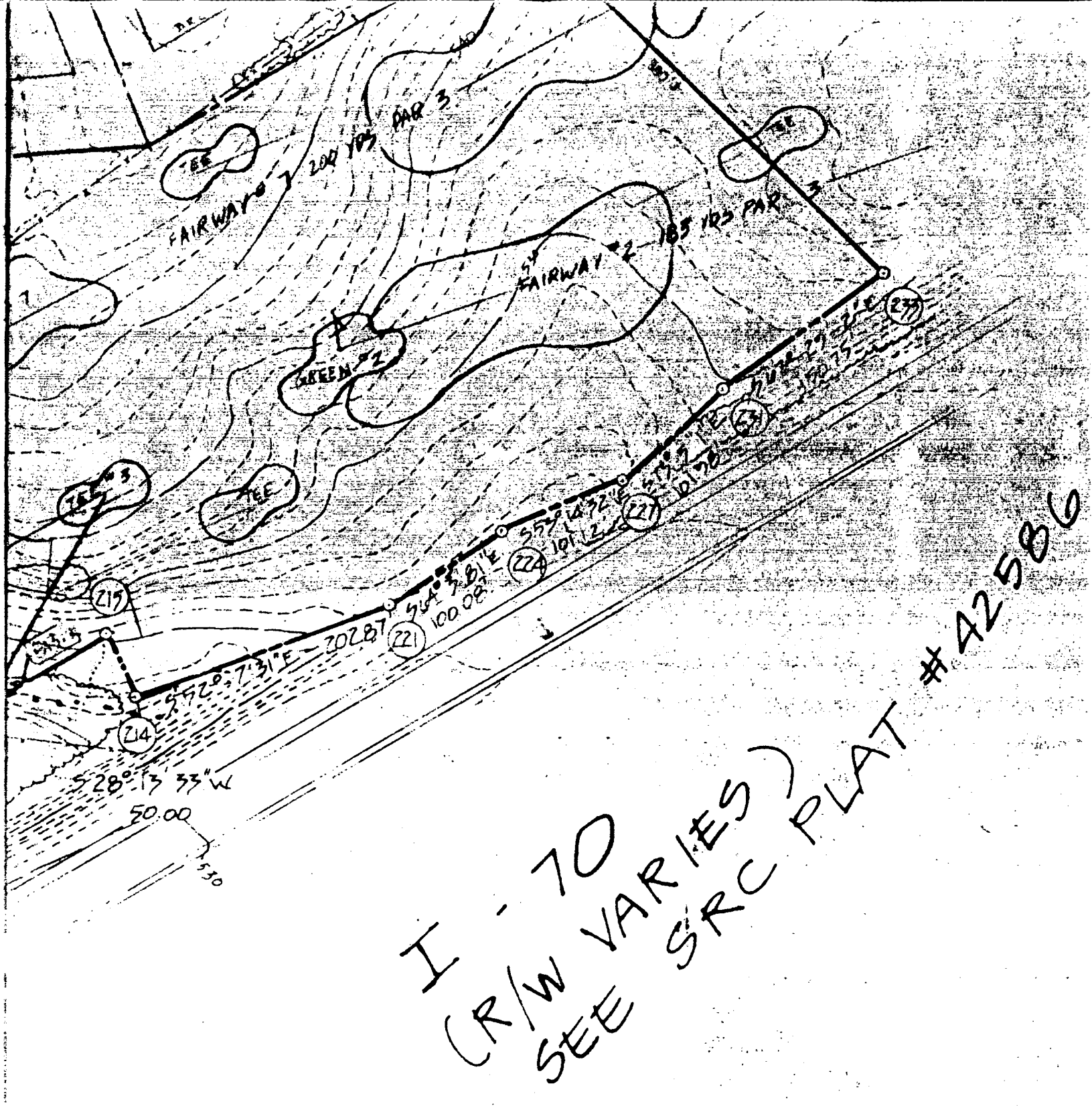
Time pump started _____ Pumping rate _____
Total time _____ to reach pumping water level _____ ft. below M.P.

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

[illegible]

B 1 7918 <small>(THIS NUMBER IS TO BE PUNCHED IN COLS. 36 ON ALL CARDS)</small>	SEQUENCE NO. (DP USE ONLY)	STATE OF MARYLAND PERMIT TO DRILL WELL please print or type	STATE PERMIT NUMBER 40-88-0407 <small>fill in this form completely</small>
Date Received (APA) 013189 OWNER INFORMATION WILLOW SP LIMI + EO 16801 Westley CH RD MONKTON MD 21111		B 3 LOCATION OF WELL HOWARD WILLOW HIGHLANDS SECTION 44 46 LOT 1 50 WEST FRIENDS AIP MILES FROM TOWN (enter 0 if in town) 1 MI	
DRILLER INFORMATION Driller's Name: RALPH MAYNE Firm Name: RALPH MAYNE (well drilling) Address: 9120 Brown Church Rd. Mt Airy Signature: Ralph Mayne Date: 1/24/89		B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX) WILLOW SPRING DR. NEAR WHAT ROAD ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH WEST EAST SOUTH DISTANCE FROM ROAD 225 FT ENTER FT or MI FT	
B 2 WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) 5 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL HOWARD A-38624 COUNTY NAME COUNTY NO. STATE SIGNATURE INSERT S DATE ISSUED 020489 NORTH GRID 541000 EAST GRID 0808000 EXP. DATE 08-13-89	
USE FOR WATER (CIRCLE APPROPRIATE BOX) <input checked="" type="checkbox"/> HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) <input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="checkbox"/> INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT) <input type="checkbox"/> PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL) <input type="checkbox"/> TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)		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 8008 N 5401 DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION 	
APPROXIMATE DEPTH OF WELL 150 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 other		REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) <input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY <input type="checkbox"/> THIS WELL WILL DEEPM AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPMED (IF AVAILABLE)	
Not to be filled in by driller (OEP USE ONLY)			
APPROP. PERMIT NUMBER GAP FORCE SA WRITE INITIALS IN BOX PERMIT No. 40-88-0407		SPECIAL CONDITIONS	





I - 70
 (R/W VARIES)
 SEE SRC PLAT # 42586

PRELIMINARY PLAN
 WILLOW SPRINGS

TAX MAP 9, PARCEL 151, PARCELS 11, 145
 ZONING MAP 9 & 15, 3RD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND, 5-5-87

SCALE: 1" = 10'

SHEET 2
 OF 4

HD-224 6019 Casing
40 open 15 Bays

C12271

SEQUENCE NO.
(DENV USE ONLY)

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
NUMBERA-38627

DATE Received

DATE WELL COMPLETED

Depth of Well

PERMIT NO.
FROM "PERMIT TO DRILL WELL"

OWNERWilliam Springs LTD

STREET OR RFDlast nameWilliam Springs DAfirst nameTOWNW. Friendship P.

SUBDIVISIONWilliam HicklandsSECTIONLOT1

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

FROMTO

Check if water bearing

Top Soil02

Sandy250

Sand/Stone5055

MICKA5575

Sand Stone7580

MICKA80185

GROUTING RECORD

WELL HAS BEEN GROUTED

(Circle Appropriate Box)

TYPE OF GROUTING MATERIAL

CEMENTCMBENTONITE CLAYBC

NO. OF BAGS15NO. OF POUNDS1500

GALLONS OF WATER90

DEPTH OF GROUT SEAL (to nearest foot)

from0ft. to40ft.

CASING RECORD

casing types insert appropriate code below

STEELCONCRETE

PLASTICOTHER

MAIN CASING TYPE

Nominal diameter top (main) casing (nearest inch)

Total depth of main casing (nearest foot)

PL660

OTHER CASING (if used)

diameter inch

depth (feet) from to

SCREEN RECORD

screen type or open hole insert appropriate code below

STEELBRASSOPEN HOLE

PLASTICOTHER

DEPTH (nearest ft.)

EACH SCREEN

123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100

SLOT SIZE 123

DIAMETER OF SCREEN (NEAREST INCH)

from to

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. 273

DRILLERS 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

TELESCOPE CASING

LOG INDICATOR

OTHER DATA

C3

PUMPING TEST

HOURS PUMPED (nearest hour)

PUMPING RATE (gal. per min. to nearest gal.)

METHOD USED TO MEASURE PUMPING RATE

WATER LEVEL (distance from land surface)

BEFORE PUMPING

WHEN PUMPING

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:

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

below

LAND SURFACE (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)

well

225

HEATHERWOOD
PLAT 4400

REVISIONS				
REV. NO.	DATE	REVISION REQUESTED BY	REVISION MADE BY	REVISION
1	2/28/89	PULTE	SHANABERGER & LANE	8% DRIVEWAY SLOPE

SEPTIC SYSTEM DATA

INV. @ HOUSE 548.3 ✓

SEPTIC TANK

EX. GRADE 551.3 ✓
FIN. GRADE 551.2 ✓
INV. IN 547.9 ✓
INV. OUT 547.6 ✓

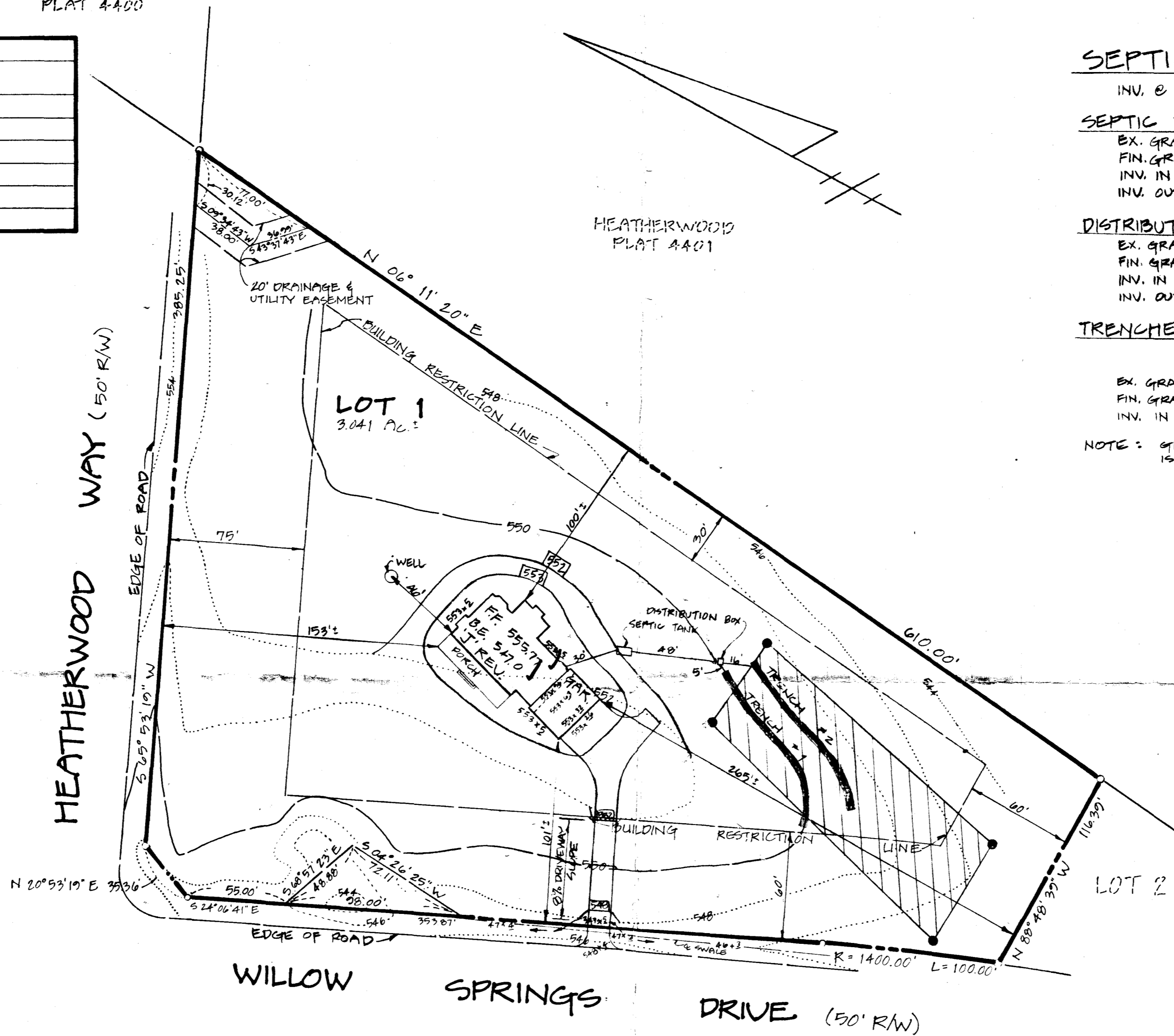
DISTRIBUTION BOX

EX. GRADE 550.0 ✓
FIN. GRADE 550.0 ✓
INV. IN 547.1 ✓
INV. OUT 547.1 ✓

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

	TRENCH #1	TRENCH #2
EX. GRADE	550.0 ✓	549.0 ✓
FIN. GRADE	550.0 ✓	549.0 ✓
INV. IN	547.0 ✓	546.0 ✓

NOTE: GRAVITY SEWER SERVICE TO BASEMENT FLOOR IS NOT POSSIBLE. ✓



SHANABERGER & LANE
8726 TOWN & COUNTRY BLVD.
SUITE 107
ELLICOTT CITY, MD 21043
(301) 461-7563

OWNER: PULTE HOME CORPORATION
9059 GAITHER ROAD
GAITHERSBURG, MARYLAND 20877
(301) 921-8707

BUDG. PERMIT SIGNED
AND RETURNED 3-13-89
BP 23861

SITE PLAN
LOT 1
WILLOW HIGHLANDS AT
WILLOW SPRINGS GOLF COURSE
PLAT # 7917
3rd ELECTION DISTRICT
HOWARD COUNTY, MD
SCALE: 1" = 50'
DATE: