

04-342291

2-20-86
S. Abel
Approved

PERMIT

P 36531

A 32265

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

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

INDEXED

ELLICOTT CITY
DISTRICT 4th
DATE 7/14/86

Norman Collins IS PERMITTED TO INSTALL X ALTER

ADDRESS _____ PHONE 442-2235

WILLIAM BONNER

SUBDIVISION Paul Parker Property ROAD 14907 Bushy Park Road LOT _____

PROPERTY OWNER William Bonner

ADDRESS _____

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

GARBAGE GRINDER? YES _____ NO X

SEPTIC TANK CAPACITY 1250 GALLONS NUMBER OF BEDROOMS 4

TRENCHES - 158 sq. ft. per bedroom. Minimum Total sq. ft. for a 4 bedroom house is 632 sq. ft. Trench to be 2 feet wide. Inlet 3 feet below original grade. Maximum depth 9 feet below original grade. Effective area begins at 3 feet below original grade. 6 feet of stone below distribution pipe.

LOCATION: Place the trench on level ground through the point that is 125 feet from Bushy Park Road and 125 feet from Cemetery Road, in perc hole #1.

NOTE: No trench to exceed 100 feet in length. If more than one trench used, a distribution box is required. Trenches to be installed on level ground. Call for inspection of trench(s) before and after gravel is installed. Provide 6" - 8" diameter cleanout and cap to grade on septic tank or drywell.

N.P.I. 2-20-86. Pitless 42" below GRADE; well line 46" - 54" below GRADE;

no pressure installed. S. Abel

PLANS APPROVED BY Frank Skinner DATE 7/11/85

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: IF TRENCH IS USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH.

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 THREE YEARS.

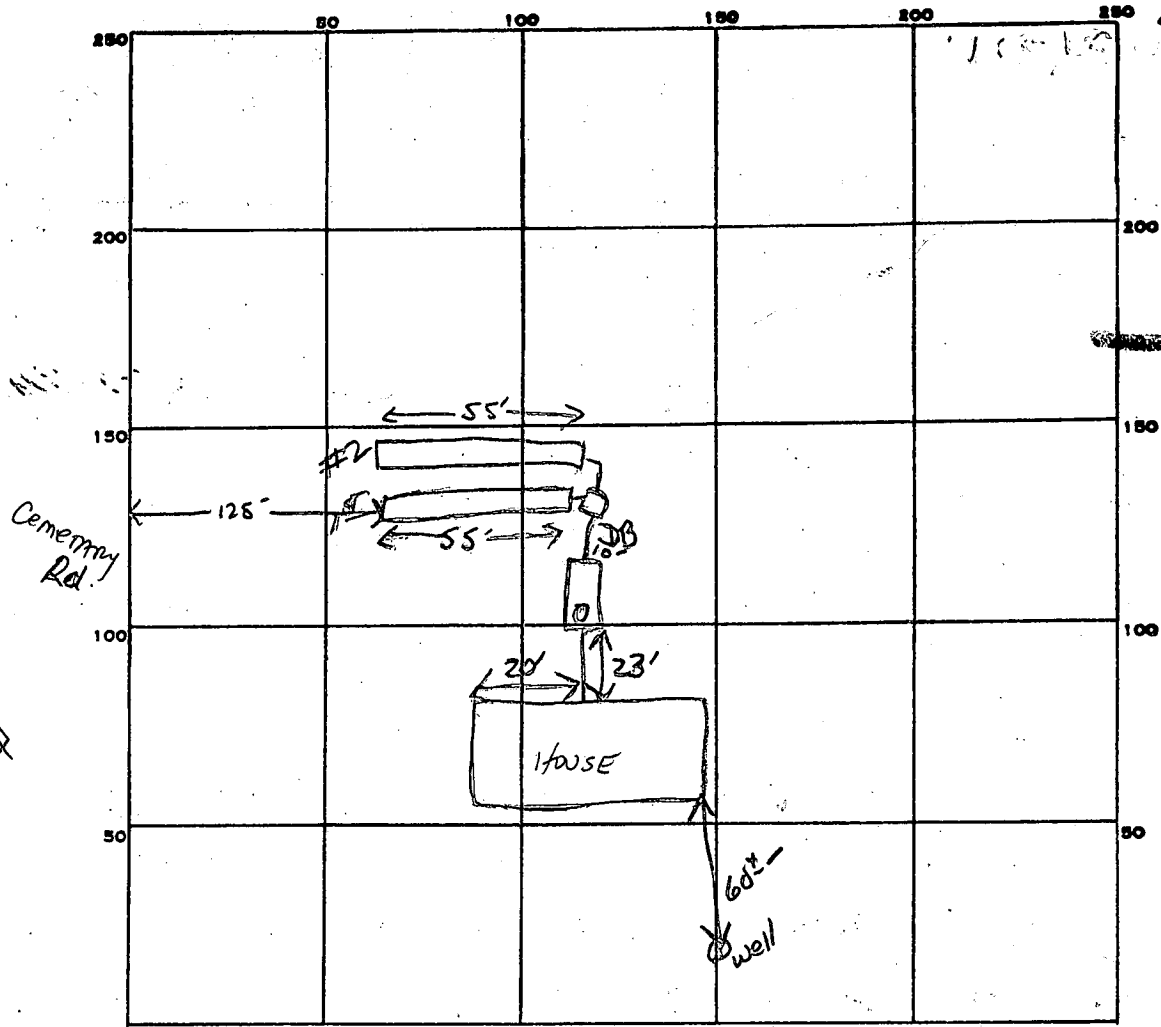
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA, OR PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET MANHOLE TO GRADE REQUIRED.

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

██████████ FOR INSPECTION OF SEPTIC SYSTEMS.

EH - 2-1082

A
32265



INDICATE NORTH. - NAME ADJOINING ROADWAY AS BASE LINE.

Bushy Park Rd.

PERMIT CARD

SEPTIC TANK, LEVEL 1500 GALV

CLEANOUTS ST

DISTRIBUTION BOX, LEVEL

TILE FIELD, DEPTH 9 FT. TRENCH WIDTH 22' FT. INLET 3'

GRAVEL DEPTH 6 IN. TOTAL LENGTH 55' 55' TOTAL 110'

NUMBER OF TRENCHES 2 ONE SIDE WALL TOTAL BOTTOM AREA 660 π

SEEPAGE PITS, INSIDE DIAMETER _____ FT. DEPTH BELOW INLET _____ FT.

ABSORBENT AREA 660 SQ. FT.

REMARKS 2-18-86 - FIRST TRENCH DUG ON HOLIDAY, OK TO STONE & COVER PART OF THAT TRENCH BEFORE INSPECTOR ARRIVES, C.W.

2-18-86 OK TO LOWER 1ST TRENCH; SEPTIC TANK AND ALL PIPE TO HOUSE; CALL FOR NEXT INSPECT. S. Abel

2-20-86 OK TO ADD STONE TO TRENCH #2. S. Abel 2-20-86 OK TO COVER ALL WORK. S. Abel

DATE SYSTEM APPROVED 2-20-86

INSPECTOR S. Abel

3
158
4
632 π

Subdivision: Paul Parker property
(William Bonner)

Lot # Southwest corner of
Bushy Park & Cemetery Rds

158 sq ft / bdrm

4 Bed
100

TRENCHES

	<u>SEPTIC TANK</u>	<u>Minimum Total Sq. Ft.</u>
3 bdrm	1000 GAL.	<u>474 #</u>
4 bdrm	1250 GAL.	<u>632 #</u>
5 bdrm	1500 GAL.	<u> </u>

TRENCH 2 WIDTH
 Inlet 3 ft below ORIGINAL GRADE
 MAXIMUM DEPTH 9 ft below ORIGINAL GRADE
 EFFECTIVE AREA BEGINS AT 3 ft below ORIG. GD.
6 ft OF STONE below DISTRIBUTION PIPE.

- NOTE:
- ① NO TRENCH TO EXCEED 100 ft IN LENGTH
 - ② IF MORE THAN ONE TRENCH USED, A DISTRIBUTION BOX IS REQUIRED
 - ③ TRENCHES TO BE INSTALLED ON LEVEL GROUND.

LOCATION: Place the trench on level ground through the point that is 125 feet from Bushy Park Road and 125 feet from Cemetery Road, in perc hole #1.

APPLICATION

Prep.

*10/27/82
9:30 A.M.*

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES
P. O. BOX 476 ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 992-2330

A 32265

P _____

DISTRICT 4th

DATE 10/25/82

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

*specs on attached sheet
FS.*

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

PROPERTY OWNER ~~Paul and Ada Parker~~ Wm. Bonner

ADDRESS 3317 Stapleton Drive, Glenwood, Md. 21738 PHONE 489-4766

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. _____

ROAD AND DESCRIPTION ~~Cemetery Lane~~ 14907 Bursky Park Rd.

SIZE OF LOT 3.157 acres TYPE BLDG. 3 or 4 bedrooms
(NUMBER OF BEDROOMS)

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.

Kenneth P. Hatfield
(SIGNATURE OF APPLICANT)

APPROVED BY Frank Skinner FOR trenches DATE 12/28/82

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING Hold for certified plot with hole location FS
BP 65731-11

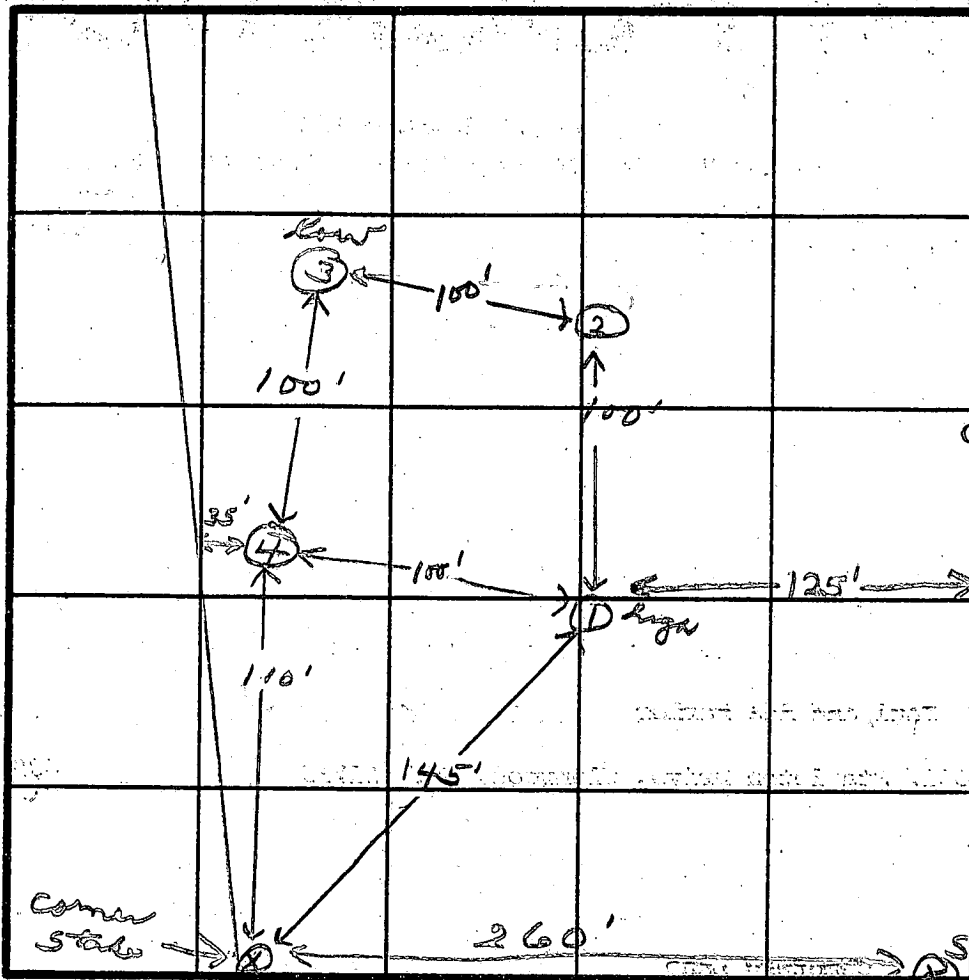
BLDG. PERMIT SIGNED
AND RETURNED

THIS IS NOT A PERMIT

all
Holes

SOIL PROFILE

0	clay soil
2'	sand, clay loam
13'	



Broadway Pk.

Corner Stake

Corner Stake

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Cemetery Lane

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
10/27/82	15	3	9:38	9:48	9:48	10:00	12
	1M	7	9:35	9:37	9:37	9:41	4
	25	3	9:43	9:46	9:46	9:51	5
	2M	7	9:42	9:50	9:50	9:56	6
	35	3	9:59	10:02	10:02	10:08	6
	3M	7	9:59	10:02	10:02	10:05	3
	4-V	13					

REMARKS Heavy underbrush - could not get accurate measurements.

TYPE OF SOIL

Hold for certified plots.

TESTED BY

J.S.


ALSO PRESENT

Ken Waterhouse

11/9/82 letter mailed to Parker - req. certified holes + plots. JS

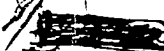
Approved: For private water and private sewage systems.
 Howard County Health Department.
James M. Paul, P.E. 12/28/02
 County Health Officer Date

PERCOLATION CERTIFICATION
PARKER PROPERTY
 4 SELECTION DISTRICT, HOWARD COUNTY, MD.
 Scale: 1"=60' Date: 12-16-02 Dwg: T6H C&D: HS

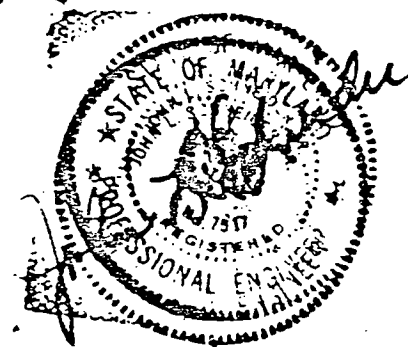
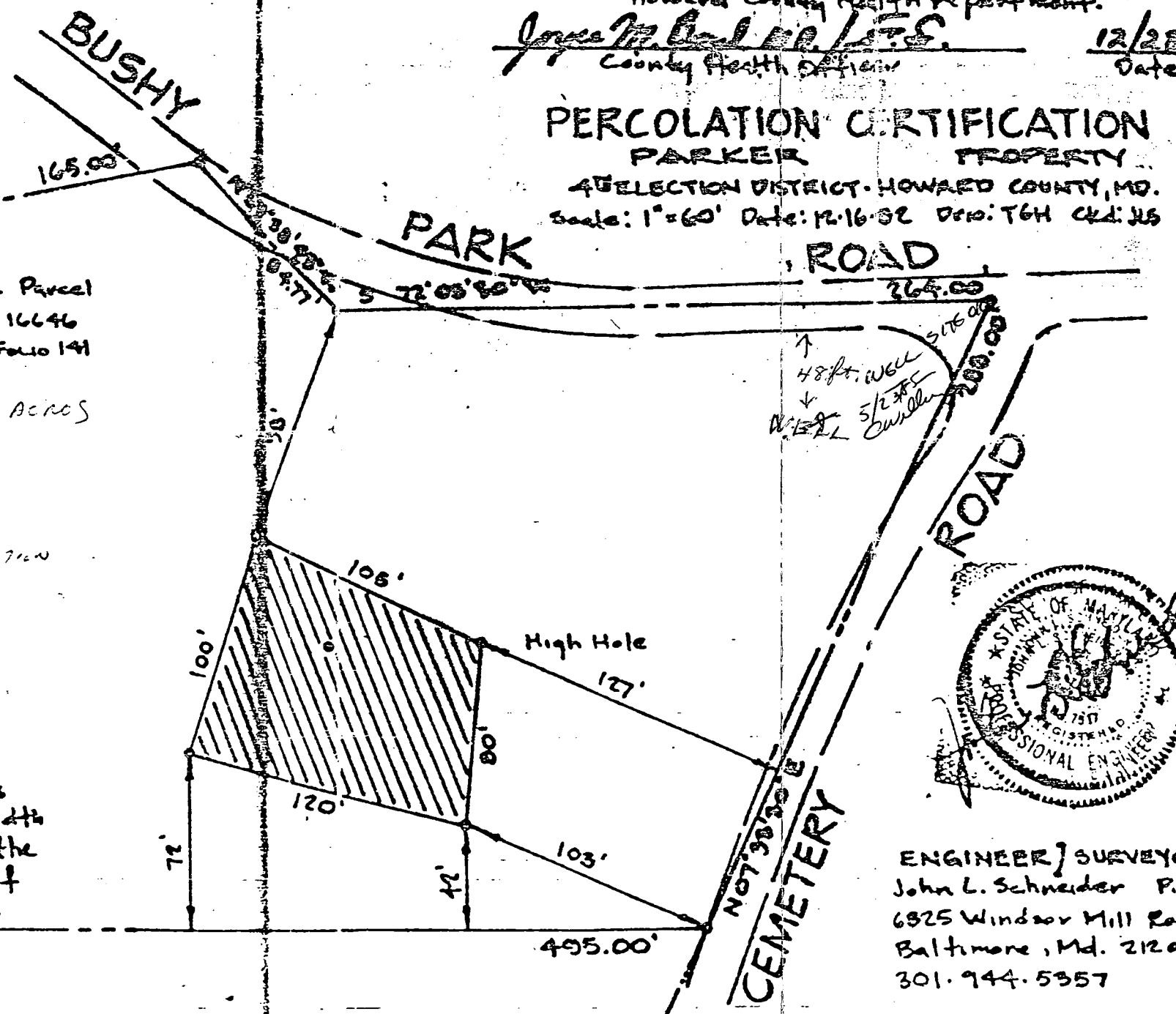
 This area indicates a private easement of approximately 10,000 square feet as required by the Maryland State Department of Health and Mental Hygiene for individual sewage disposal systems. Improvements of any kind in this area are restricted until public sewage is available and serving any residential structures constructed on this site. This easement shall become null and void upon connection to a public sewage system.

Percolation test holes shown hereon have been field located and shown as follows:
 Percolation areas and water wells for adjoining lots will be shown where pertinent.

0.157 Acre Parcel
 EQMTCAS816646
 LIBER 1116 Folio 141

 - 3.157 ACRES
 25% Down
 10% Inflow
 10 Yr Amelioration
 3 Yr Allow

The lot shown hereon complies with the minimum ownership width and lot areas as required by the Maryland State Department of Health and Mental Hygiene.



ENGINEER / SURVEYOR
 John L. Schneider P.E.
 6825 Windsor Mill Road
 Baltimore, Md. 21207
 301.944.5357

B 1 **6573** SEQUENCE NO. (OEP USE ONLY)
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

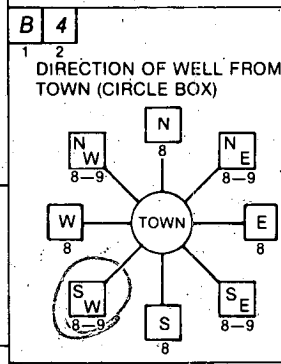
STATE OF MARYLAND
 PERMIT TO DRILL WELL
 please print or type

OEP PERMIT NUMBER
HO-81-1031
 fill in this form completely

Date Received **042385**
 OWNER INFORMATION
Donner William E.
 6575 Hall Ave
 Glen Burnie MD 21061

B 3 LOCATION OF WELL
Howard COUNTY
Darcel of Ground SUBDIVISION
 SECTION **0** LOT **0**
Cooksville NEAREST TOWN
 MILES FROM TOWN (enter 0 if in town) **1.5 MI**

DRILLER INFORMATION
Wm W. Reichart Driller's Name
Wm W. Reichart, Inc Firm Name
RD # 2 Box 54 Hanover PA 17331 Address
Wm W. Reichart Signature **4/18/85** Date



Bushy Park Rd. NEAR WHAT ROAD
 DISTANCE FROM ROAD **48** FEET
 ENTER FT or MI **FT**

B 2 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 NAME
A 32265 COUNTY NO.
 OEP SIGNATURE _____ STATE HEALTH INSERT S
 DATE ISSUED **052885** CO SIGNATURE **Chris Wilton** EXP. DATE **11/28/85**
 NORTH GRID **540000** EAST GRID **0790000**

APPROXIMATE DEPTH OF WELL **250** FEET

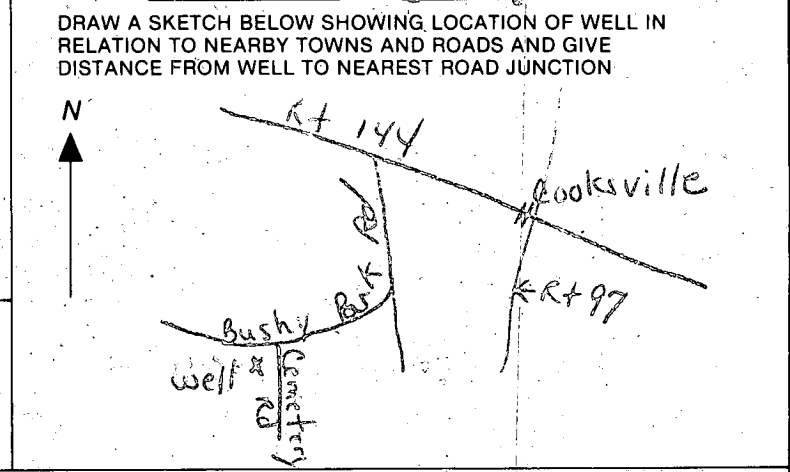
APPROXIMATE DIAMETER OF WELL **6** INCH

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)
 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) _____

Not to be filled in by driller (OEP USE ONLY)
 APPROP. PERMIT NUMBER _____ GAP _____
 FORCE WRITE INITIALS IN BOX PERMIT No. **HO-81-1031**

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X
 SOURCES OF DRILLING WATER
 1. Approved well
 2. _____
 3. _____
 WRITE THE BOX NUMBER FROM THE MAP HERE



C1 2301 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

SEQUENCE NO. (OEP 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 NUMBER A 32265

DATE Received

DATE WELL COMPLETED 6-10-85

Depth of Well (TO NEAREST FOOT) 250

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-81-1031

OWNER BONNER WILLIAM
STREET OR RFD last name BUSNY PARK RD first name WILLIAM TOWN COOKSVILLE
SUBDIVISION BONNER PROPERTY SECTION LOT

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	
rolling ground & gravel	0	96'	
brown shale	96'	107'	
water			✓
brown shale	107'	145'	
water			✓
gray & brown shale	145'	164'	
gray shale	164'	183'	
water			✓
gray shale	183'	193'	
water			✓
gray shale	193'	250'	

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N
TYPE OF GROUTING MATERIAL
CEMENT CM BENTONITE CLAY BC
NO. OF BAGS 14 NO. OF POUNDS 1344
GALLONS OF WATER 98
DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 30 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 7 Nominal diameter (nearest inch) 6 Total depth of main casing (nearest foot) 102

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	3
1	<u>HO</u>	<u>102</u>	<u>250</u>
2			
3			

SLOT SIZE 1 2 3
DIAMETER OF SCREEN (NEAREST INCH)

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

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. 064
Wm. Reichart
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)
Wm. Reichart

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

C3

PUMPING TEST
HOURS PUMPED (nearest hour) 6
PUMPING RATE (gal. per min. to nearest gal.) 5
METHOD USED TO MEASURE PUMPING RATE watch & bucket
WATER LEVEL (distance from land surface) BEFORE PUMPING 52
WHEN PUMPING 230
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)
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)
Bushy Park Rd

well
OK Co.
BIDG. PERMIT SIGNED AND RETURNED

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 81-1031
 Location of property (road) BUSHY PARK AT CEMETARY LANE
 Subdivision WM BONNER PROPERTY Lot _____ Block _____ Plat _____ Sec. _____
 Well Driller REICHAULT Owner WM. BONNER

Depth of well 250'
 Distance of measuring point (M.P.) above ground surface
 Static water level (S.W.L.) below M.P. 53'

I. High rate pumping -- reservoir drawdown 50
 Time pump started 10:00 A.M. Pumping rate 12 gpm
 Total time 1 1/2 hrs to reach pumping water level 59pm 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)
10:00	53'	25 sec		12
10:15	83'	"		"
10:30	115'	"		"
10:45	156'	"		"
11:00	180'	"		"
11:15	215'	"		"
11:30	230'	60 sec		5
11:45	"	"		"
12:00	"	"		"
12:15	"	"		"
12:30	"	"		"
12:45	"	"		"
1:00	"	"		"
1:15	"	"		"
1:30	"	"		"
1:45	"	"		"
2:00	"	"		"
2:15	"	"		"
2:30	"	"		"
2:45	"	"		"
3:00	"	"		"
3:15	"	"		"
↓	↓	↓		↓
4:00	230'	60 sec		5

4/17/86

APPLICATION FOR PITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION

Howard County Health Department
Bureau of Environmental Health
3525-H Ellicott Mills Drive
Court House Square
Ellicott City, Md. 21043
461-9933

New Installation Replacement
Receipt # 36815
Date 4/16/86
Name of Installer C. Stephen Zabel Telephone 875-2964
License number 6033
Certified Well Pump Installer Well Driller Registered Plumber
Name of Property Owner William Bowser Telephone 489-7013
Subdivision _____ Lot # _____ Well tag # 40-81-1031
Site Address 14907 Bushy Park

Pump
1. Type
a. Deep well jet 2 1/2"
b. Shallow well jet _____
c. Submersible 1/2 hp.
2. Make McDonald
3. Model # 350
4. Capacity 5 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 _____

Motor
1. Horsepower 1/2
2. RPM _____
3. Voltage _____
a. 110 _____
b. 220

Pitless Adapter
1. Make Howard
2. Model # 1"
3. Depth 42"

Tank
1. Capacity 40
2. Pressure relief valve? 1/2"

Piping
1. Type 100%
2. Size 1"
3. NSF and/or BOCA Code approved _____
4. Depth of supply line 42"

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

4/17/86 all work covered - no inspection made

INSPECTED + APPROVED 2-20-86 BY S.A. (EXCEPT FOR P.T.)

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: C. Stephen Zabel
Date: 4/16/86

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

B.P.# 65731



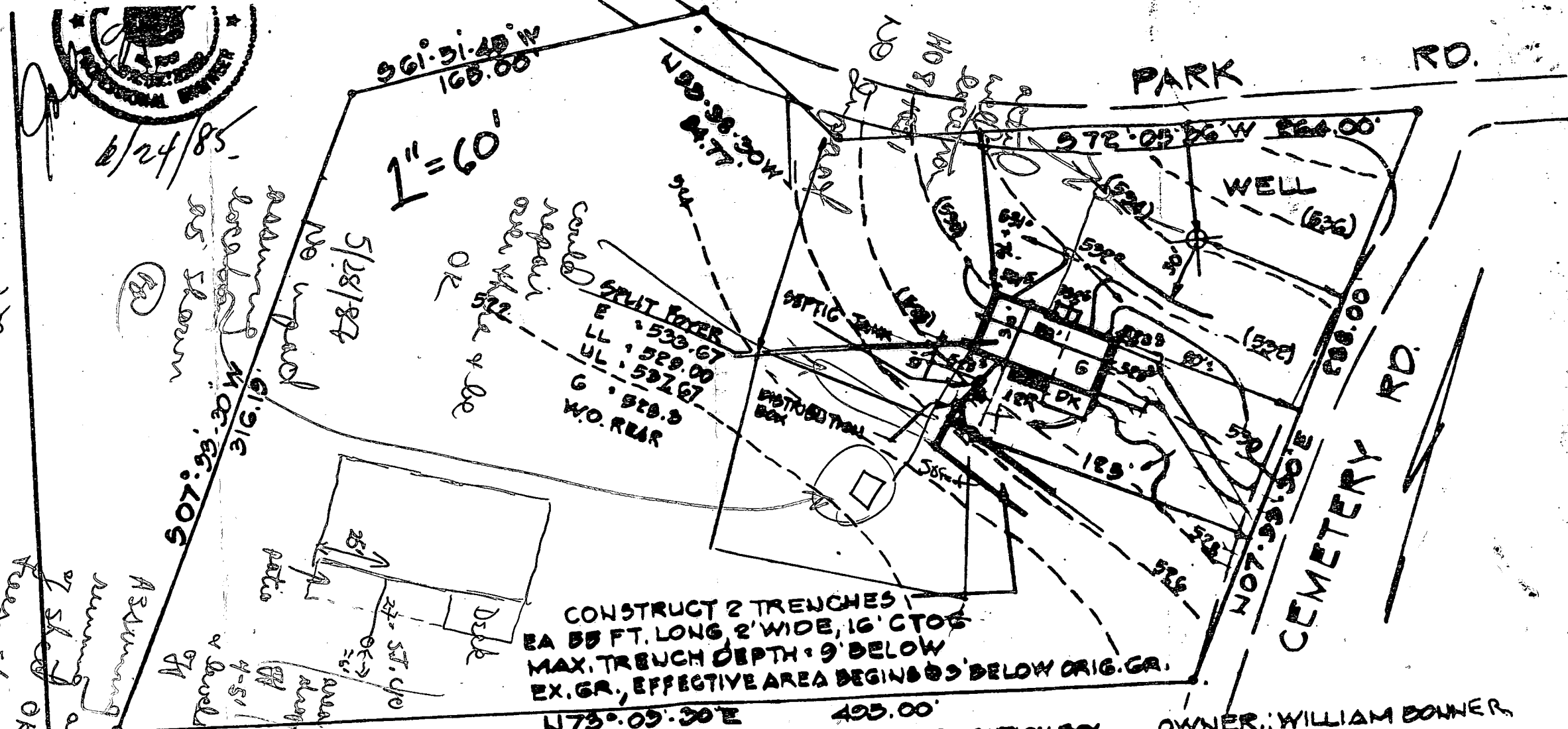
6/24/85

PROJ. PERMIT SEWER AND RETURNED 6/27/85

BP 12201

B. Bower

Septic system location 8-11-85
OK 7-11-85



CONSTRUCT 2 TRENCHES
 EA 55 FT. LONG, 2' WIDE, 16' C TO G
 MAX. TRENCH DEPTH: 9' BELOW
 EX. GR., EFFECTIVE AREA BEGINS 9' BELOW ORIG. GR.

WELL DATA
 EX. GR. 534.8
 FIN. GR. 534.8

SEPTIC SYSTEM
 INV. OF SEWER FROM HOUSE: 527.00

SEPTIC TANK
 EX. GR. = 528.00
 FIN. GR. = 529.00
 INV. IN. = 526.80
 INV. OUT. = 526.50

TRENCH DATA
 EX. GR. 526.2
 INV. - 2' @ 529.2
 MAX. DEPTH 9'
 6" STONE BELOW PIPE INLET

DISTRIBUTION BOX
 EX. GR. 527.00
 FIN. GR. 527.00
 INV. IN. 525.00
 INV. OUT. 524.00

OWNER: WILLIAM BOWER

PLOT PLAN
PARKER PROPERTY
 4TH DIST. HO. CO. MD.
 SCALE: 1" = 60' 6-20-85

Assuming trenches are running as shown, location of stack OK. Repair done to roof of area shown OK. Repair done to roof of area shown OK.

Assuming trenches are running as shown, location of stack OK. Repair done to roof of area shown OK.

