

3/23/83 Appl. F.S.

3/23/83
Wash. please

PERMIT

P 336 73

A 27196

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH*

HOWARD COUNTY
BUREAU OF ENVIRONMENTAL HEALTH
992-2330

INDEX

04-318641

ELLICOTT CITY

DISTRICT 4th

DATE 3/19/84

Jack Fyock

IS PERMITTED TO INSTALL ALTER

ADDRESS 13775 Triadelphia Road, Glenelg, Md. 21737 PHONE 988-9270

SUBDIVISION Middle Trail ROAD 730 Middletrail Ct ~~16293 Old Frederick Rd.~~ LOT 15-D

PROPERTY OWNER Mr. and Mrs. Carl Layman

ADDRESS 3222 Bicentennial Court, Ellicott City, Md. 21043 Phone: 461-2942

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

GARBAGE GRINDER? YES NO

SEPTIC TANK CAPACITY 1000 GALLONS NUMBER OF BEDROOMS 3

TRENCHES - To be 2 ft. wide. Inlet to be 4 ft. below original grade and effective absorbent area from 4 ft. to 8 ft. only. Maximum depth of trenches to be 8 ft. below original grade. A minimum of 180 sq. ft. effective absorbent sidewall area per bedroom needed. Trenches cannot exceed 100 ft. in length. Distribution box to be use if more than one trench used. Two inspections of trenches required - before and after stone installed. If more than one trench used - need to have 15 ft. distance between trenches, center to center. Run trenches on contour and/or level ground as much as possible. Start trenches at the point 150 feet from the edge of hard paved private road and 10 feet from right side line, as seen when facing the lot from the hard paved road.
NOTE: Change in sewage easement due to well sites on Lot 15A,B and Lot 15C.

PLANS APPROVED BY Charles B. Streaker & Frank A. Skinner DATE 4/27/82

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.

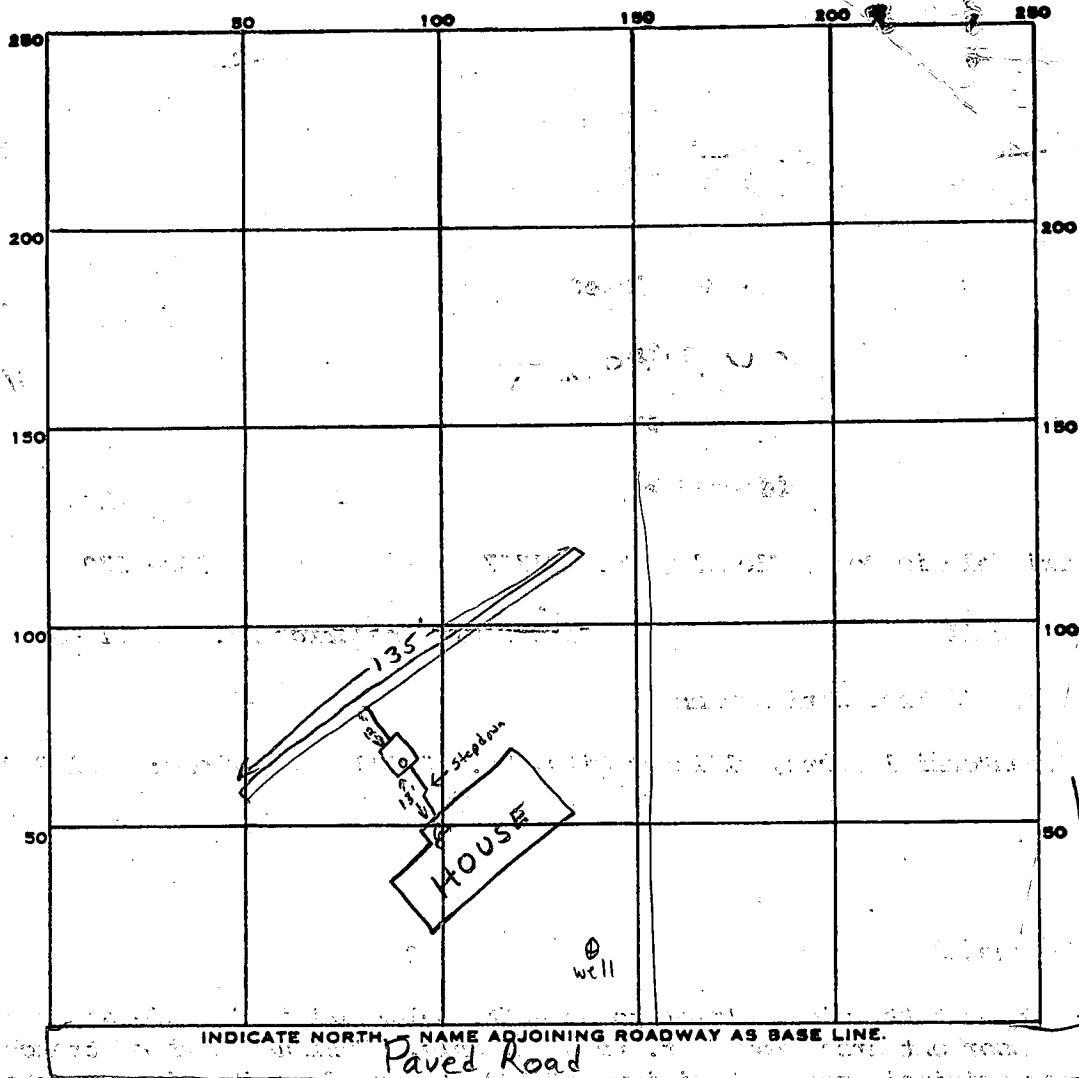
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA. OR PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET MANHOLE TO GRADE REQUIRED.

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

*CALL 992-2330 FOR INSPECTION OF SEPTIC SYSTEMS.

EH - 2-1082

A 27196



PERMIT CARD verbal ok

SEPTIC TANK, LEVEL CLEANOUTS S.T. / OK

DISTRIBUTION BOX, LEVEL ina. Tee used

TILE FIELD, DEPTH 8 FT. TRENCH WIDTH 2 FT.

GRAVEL DEPTH 4 1/2 IN. TOTAL LENGTH 1 FT.

NUMBER OF TRENCHES 1 ONE SIDEWALL TOTAL BOTTOM AREA 540

SEEPAGE PITS, INSIDE DIAMETER _____ FT. DEPTH BELOW INLET 4 FT.

ABSORBENT AREA ±540 SQ. FT.

REMARKS 3/23/84 OK to put gravel in trench 775.

3/23/84^{12:30} OK to cover all work

DATE SYSTEM APPROVED 3/23/84 INSPECTOR F. Shonier

Middle Trial

Need copy of signed plat before inspect within #

A27196

Lot Number

15 D

Septic tank

1 - 3 Bedrooms 1000 gallons
4 Bedrooms 1250 gallons

180
133
1540 φ
17
21

Trenches to be 2' wide. Inlet to be 4' below original grade and effective absorbant area from 4' - 8' only. Maximum depth of trenches to be 8' below original grade. A minimum of 180' sq.ft. effective absorbant sidewall area per bedroom needed. Trenches can not exceed 100' in length. Distribution box to be used if more than 1 trench used. Two inspections of trenches required - before and after stone installed. If more than 1 trench used - need to have 15 ft. distance between trenches, center to center. Run trenches on contour. +/- level ground as much as possible.

LOCATION: Start trenches at the point 150 feet from the edge of hard paved private road and 10 feet from right side line, as seen when facing the lot from the hard paved road.

4/27/82 F.S.

Note

Owner: Mr. + Mrs. Carl Layman
3222 Bicentennial Court
Beltsville City, Md. 21043
~~461-7~~ 461-2942.

Address: 16293 Old Frederick Road
Mt. Airy, Md.

3/18/82 Note change in sewage easement due to well sites on Lot 15A, B & Lot 15C. See copy of Declaration attached. F.S.

BLDG. PERMIT SIGNED AND RETURNED 10/13/83
Series No. 56020

APPLICATION

A 27196

P _____

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: 465-5000, EXT. 356

DISTRICT 4th

DATE 11/8/77

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 Howard Associates

ADDRESS Suite 118, Teachers Bldg. Columbia, Md. PHONE _____

PROPERTY LOCATION:

SUBDIVISION Middle Trail LOT NO. 15 D

ROAD AND DESCRIPTION Old Frederick Rd.

SIZE OF LOT 1.166 AC. TYPE BLDG. 3 or 4 bedrooms
NUMBER OF BEDROOMS

IF NOT SINGLE RESIDENCE DESCRIBE _____

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE.

SIGNATURE OF APPLICANT _____

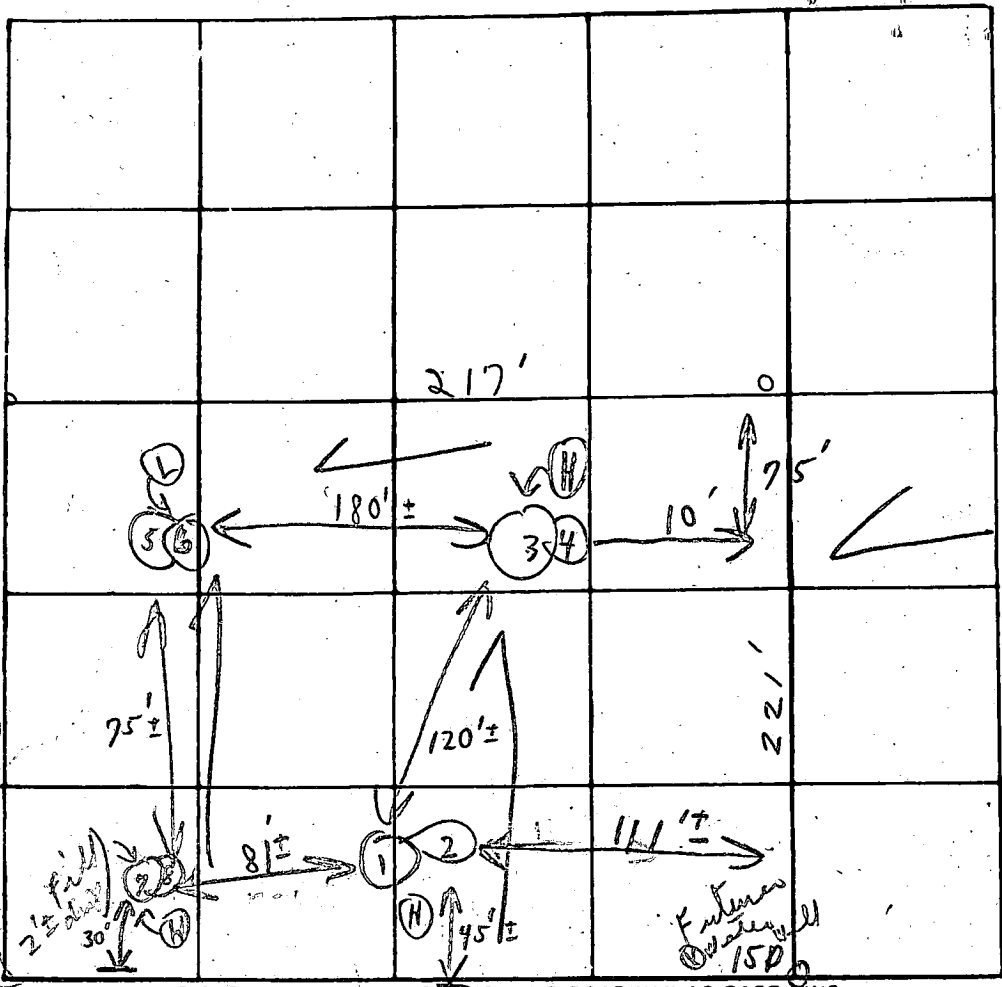
APPROVED BY _____ FOR _____ DATE _____
(KIND OF SYSTEM)

REJECTED BY _____ FOR _____ DATE _____
(KIND OF SYSTEM)

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING _____

THIS IS NOT A PERMIT



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

Edge of existing pavement

| DATE | TEST NO. | DEPTH | PRE-WET | | TEST - 1" DROP | | TIME |
|---------|----------|---------|---------|-------|----------------|-------|------|
| | | | START | STOP | START | STOP | |
| 4/12/18 | 1 | 4 1/2' | 12:41 | 12:48 | 12:48 | 12:57 | 9m |
| | 2 | 12 1/2' | 1:54 | 1:56 | 1:56 | 2:00 | 4m |
| | 3 | 5 1/2' | 12:48 | 1:04 | 1:04 | 1:32 | 28m |
| | 4 | 13' | 12:47 | 12:49 | 12:49 | 12:53 | 4m |
| | 5 | 5' | 12:59 | 1:03 | 1:03 | 1:10 | 7m |
| | 6 | 11' | 12:56 | 1:11 | 1:11 | 1:38 | 27m |
| | 7 from | 3' | 1:26 | 1:29 | 1:29 | 1:36 | 7m |
| | 8 grade | 11' | 1:13 | 1:15 | 1:15 | 1:25 | 10m |

Soil Profile

Weathered shale below clay

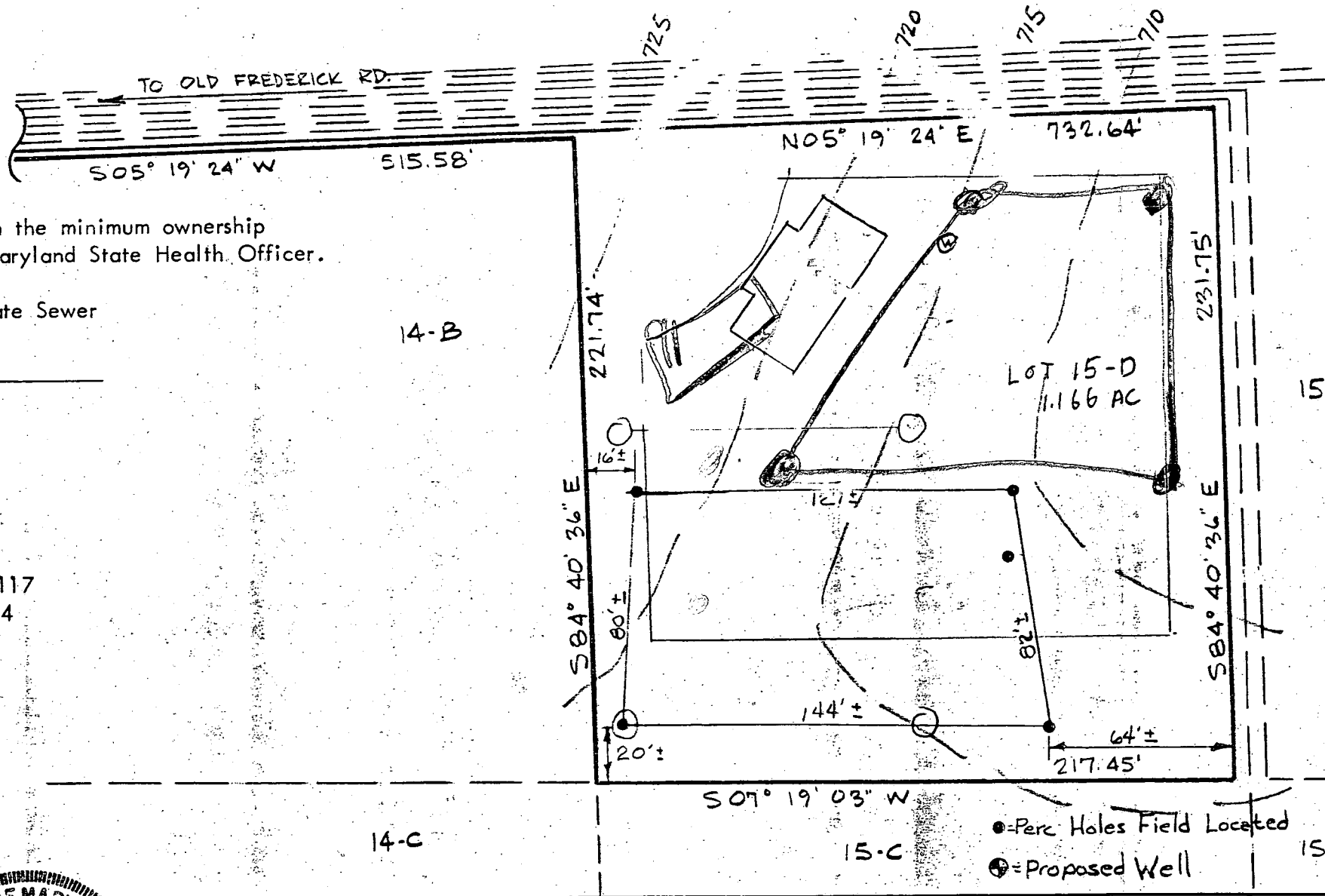
Wooden

2' fill in this hole

REMARKS Open field

TYPE OF SOIL _____

TESTED BY C. Boyd ALSO PRESENT: Arnold - Alderman

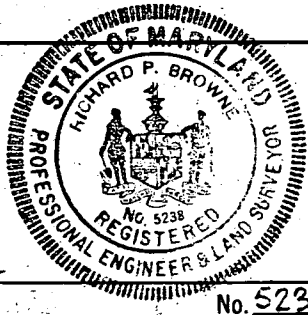


The lot shown hereon complies with the minimum ownership and lot areas as required by the Maryland State Health Officer.

APPROVED: Private Water & Private Sewer

Howard County Health Officer

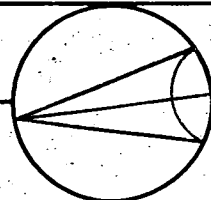
Owner: Howard Associates
 Teachers Building, Suite 117
 Columbia, Maryland 21044



Richard P. Browne

No. 5238

REFERENCE



MERIDIAN

RICHARD P. BROWNE ASSOCIATES
 CONSULTING ENGINEERS, PLANNERS
 WAYNE, N.J. COLUMBIA, MD.

MAP OF PROPERTY OF
 HOWARD ASSOCIATES

SITUATED IN
 4th Election District Howard County, Md.

SCALE: 1" = 50'

DATE: 10-16-75

DRAWN CBM CHECKED

PROJECT No. _____ W. O. No. _____

BRUNING 40-105 11334

APPLICATION

A 21987

SEWAGE DISPOSAL TESTING

P _____

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: 465-5000, EXT. 356

DISTRICT 4

DATE 8/20/75

*4-13' Loled
on 10,000 ft.
Preliminary*

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 Howard Associates

ADDRESS Suite 118, Teachers Bldg., Columbia, Md. PHONE 730-7733

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. 15D

ROAD AND DESCRIPTION R/W off Old Frederick Rd.

SIZE OF LOT 1.166 acres TYPE BLDG. 3 or 4

NUMBER OF BEDROOMS

IF NOT SINGLE RESIDENCE, DESCRIBE _____ (Single Fmly. Dwllg.)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE.

SIGNATURE OF APPLICANT /s/ Joel Abramson

APPROVED BY _____ FOR _____ DATE _____

(KIND OF SYSTEM)

REJECTED BY Frank Spina FOR any DATE 10/8/75

(KIND OF SYSTEM)

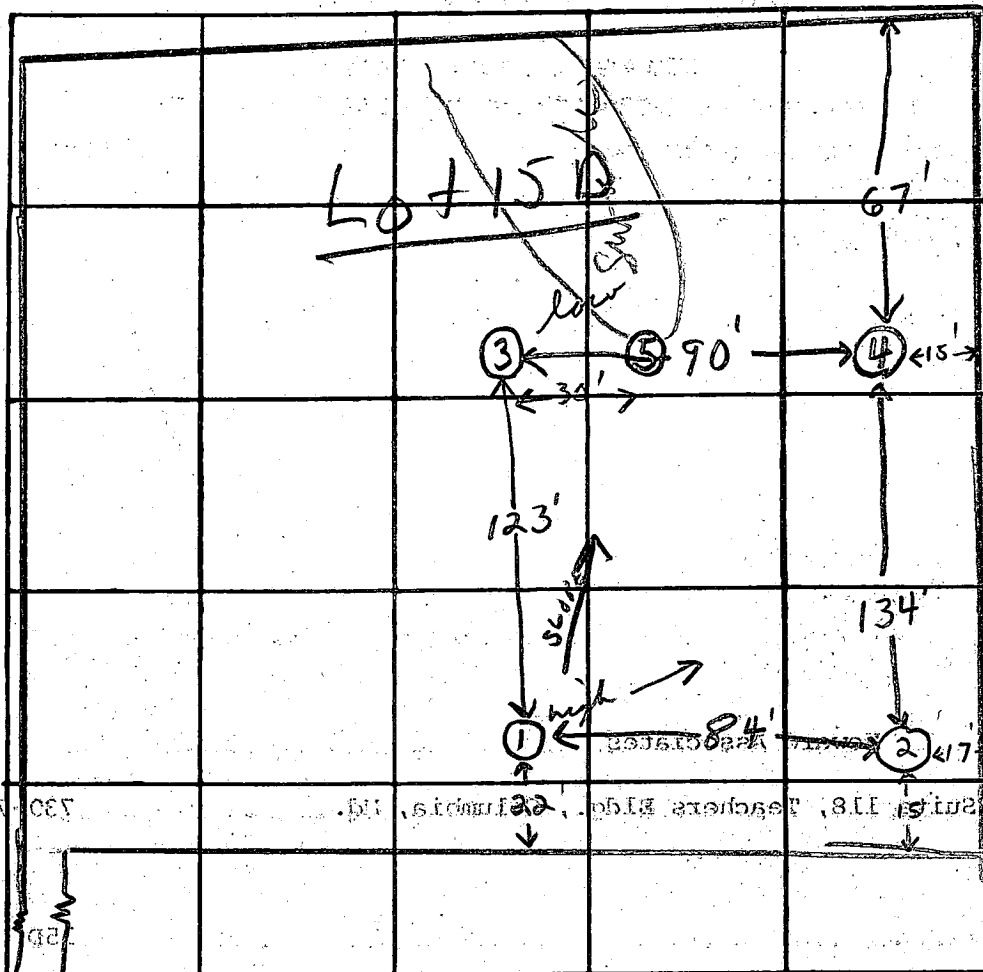
HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING Insufficient disposal area F.S.

See later tests.

C.B.D. + F.D.

THIS IS NOT A PERMIT



INDICATE NORTH. - NAME ADJOINING ROADWAY AS BASE LINE.

Old Fredrick Rd.

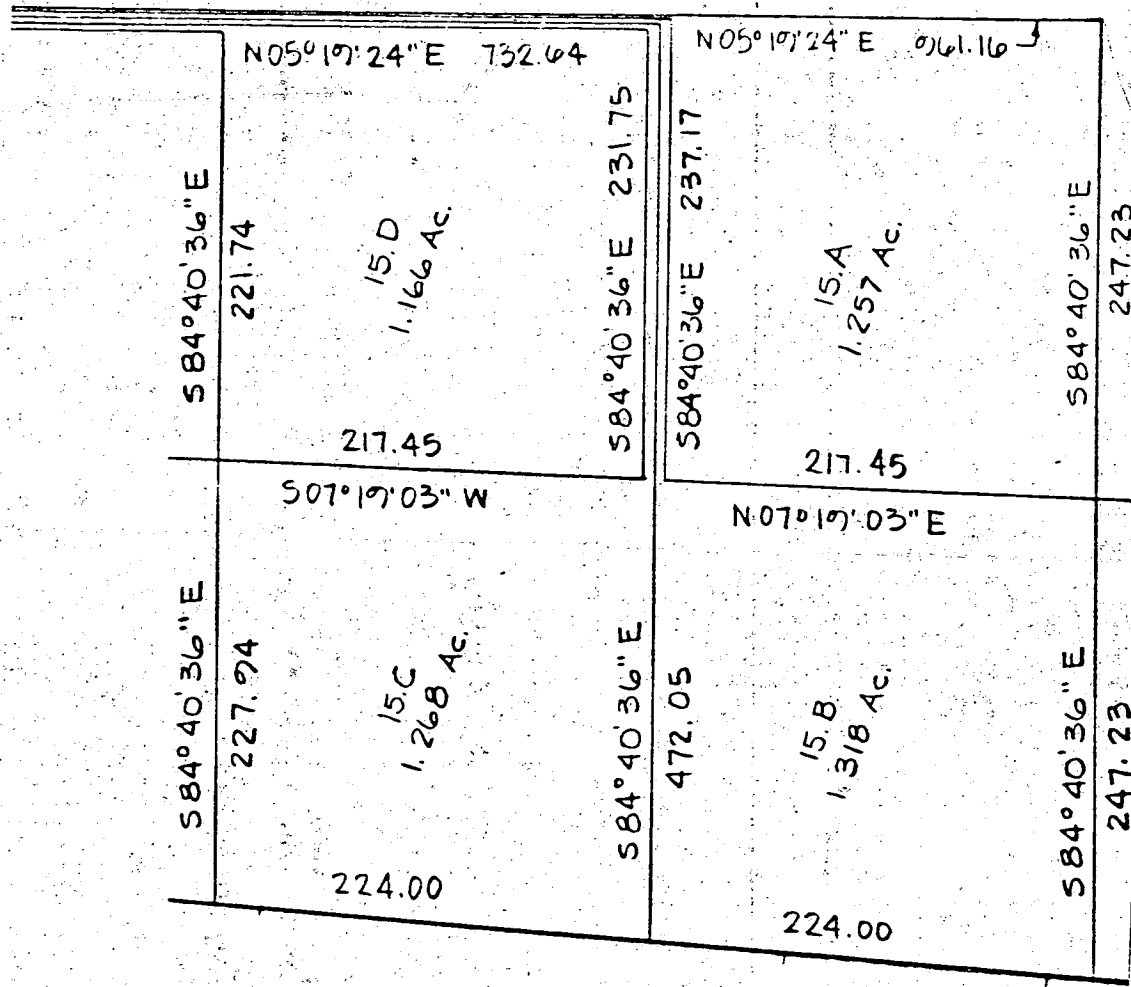
| DATE | TEST NO. | DEPTH | PRE-WET | | TEST - 1" DROP | | TIME |
|---------|----------|---------|---------|---|----------------|------|------------------------------|
| | | | START | STOP | START | STOP | |
| 10/8/75 | 1 high | 6' | 2:01 | 2:07 | 2:07 | 2:21 | 14 min |
| | 1A | 12' | 2:00 | 2:06 | 2:06 | 2:17 | 11 min |
| | 2 | 12' | Visual | silty loam below top 4-6' clayey soil | | | |
| | 3 | 5' | 2:18 | 2:20 | 2:20 | 2:24 | 4 min |
| | 3A | 10 1/2' | 2:18 | 2:40 | 2:40 | 3:13 | perched on 1/2" slope Failed |
| | 4 | 4' | 2:35 | 2:40 | 2:40 | 2:51 | 4 min |
| | 4A | 12 1/2' | 2:35 | 2:37 | 2:37 | 2:41 | 4 min |
| | 5 | 10' | Visual | clayey to 4-6' silty loam shoulder separate below | | | |

REMARKS hole ③ is hard in bottom at 10 1/2' ⑤ is hard at 10'

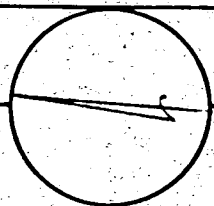
TYPE OF SOIL silty loam & weathered granite below top 4-6' clayey soil

TESTED BY F.S. ALSO PRESENT: Lendrim man

OLD FREDERICK ROAD
↑



REFERENCE



MERIDIAN

RICHARD P. BROWNE ASSOCIATES

CONSULTING ENGINEERS, PLANNERS
WAYNE, N.J. COLUMBIA, MD.

MAP OF PROPERTY OF
MIDDLE TRAIL: Howard Associates

SITUATED IN
4th Election District - Howard Co., Md.

SCALE: 1" = 100'

DATE: 8-11-75

PROJECT No. _____ W. O. No. _____

DRAWN _____ CHECKED _____

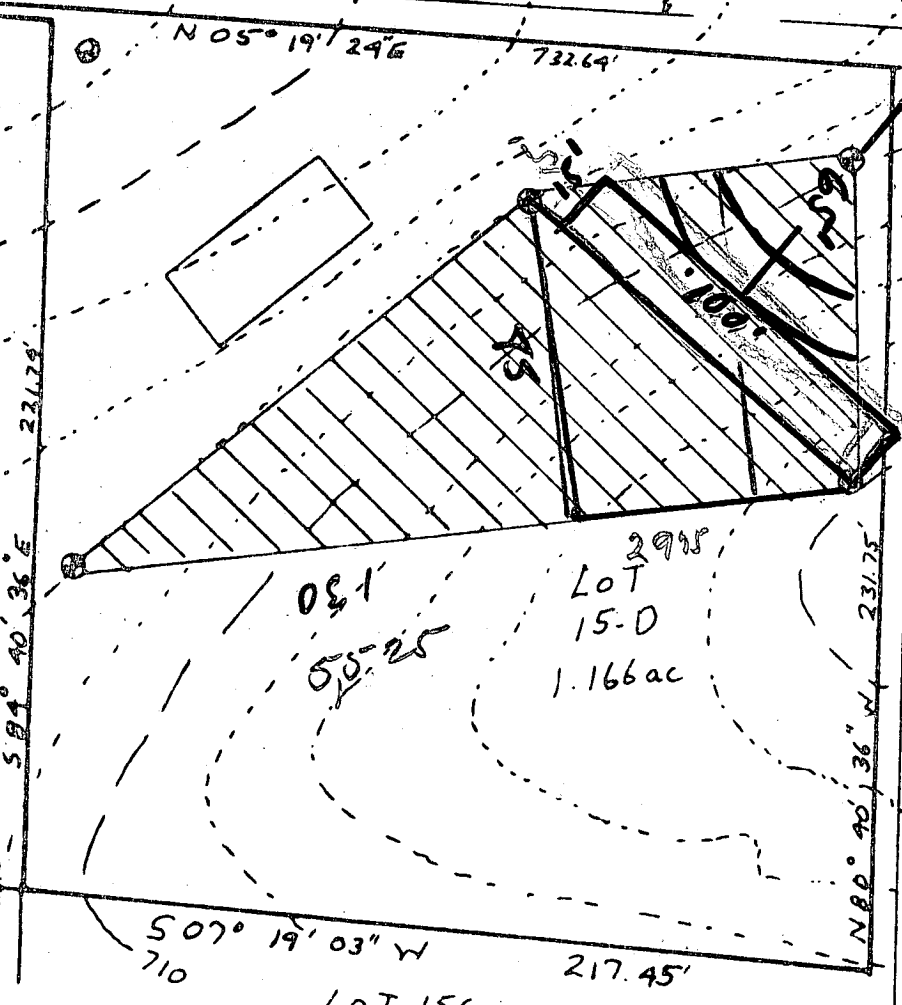
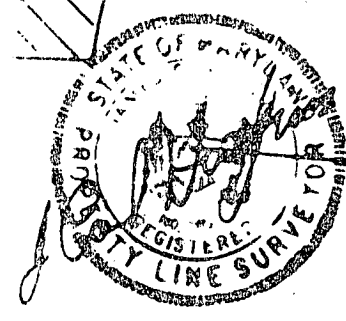
...d Frederick Rd.

Mac Road

130x85 Lot 14-B
2

well
651
Frost/spr
710,000
15A

Lot 15A



This area designates a private sewage easement of 10,000 square feet as required by the Maryland State Department of Health and Mental Hygiene for individual sewage disposal. Improvements of any nature in this area are restricted until public sewage is available. These easements shall become null and void upon connection to a public sewage system. The County Health Officer shall have the authority to grant variances for encroachments into the private sewage easement. Recordation of a modified sewage easement shall not be necessary. Percolation test holes shown hereon have been field located and shown as "⊙".

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

Percolation areas and water wells for adjoining lots have been shown where pertinent.

APPROVED: For Private Water and Private Sewage Systems

County Health Officer

Date

PERCOLATION TEST PLAT
LOT 15-D
MIDDLE TRAIL LISBON

Property of
Howard Associates
4th Election District
Howard County, Maryland
Scale 1"=50'
Date 5-28-78
Revised 10-12-81

NTT Associates
Suite 307, Clark Bldg.
Columbia, MD 21044
321-0307

Liber 1094
Folio 234.

DECLARATION OF EASEMENT

THIS DECLARATION OF EASEMENT, made this *15th* day of *March*, 1982, by HOWARD ASSOCIATES, a Limited Partnership of the State of Maryland, Declarant.

WHEREAS, HOWARD ASSOCIATES, is the owner of parcels 15C and 15D, as more particularly described in Deeds dated February 18, 1975, and recorded among the Land Records of Howard County, in Liber 712, folio 423, and 504, respectively; and

WHEREAS, an Easement is needed on Lot 15D, for a water well for the benefit of Lot 15C, and the Declarant, the owner of all said parcels, by this Declaration desires to create in perpetuity, an Easement for such purpose.

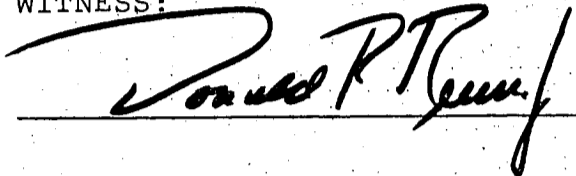
NOW, THEREFORE, this Declaration witnesseth:

1. The Declarant for itself, its successors and assigns, does hereby declare and create a perpetual easement in and over the area of ground described in Exhibit "A" attached hereto and made a part hereof,
2. That the Easement described herein and created pursuant to the provisions of Paragraph No. 1 above shall be for the purpose of providing a water well location for the benefit of Lot 15C and shall run with and bind with the land in perpetuity.
3. Howard Associates, as owner of Lot 15C, its successors and assigns, shall have the right and privilege of entering upon that portion of Lot 15D as described in Exhibit "A" whenever it may be necessary to make openings and excavations and to lay, construct, and maintain said water well and appurtenances, provided, however, that the ground shall be restored and left in good condition; it is further agreed that no buildings or similar structures of any kind shall be erected in, on or over the said

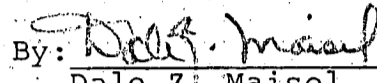
right-of-way by any of the parties hereto, their heirs, personal representatives, successors and assigns.

WITNESS the hand and seal of the Declarant, the day and year first above written.

WITNESS:



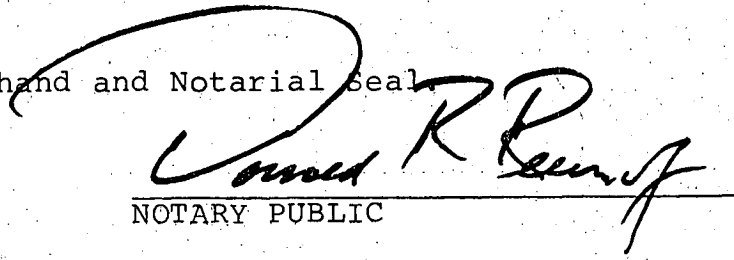
HOWARD ASSOCIATES, a Limited Partnership

By:  (SEAL)
Dale Z. Maisel, General Partner

STATE OF MARYLAND, COUNTY OF HOWARD, to wit:

I HEREBY CERTIFY, that on this day of , 1982, before me, the Subscriber, a Notary Public in and for the State and County aforesaid, personally appeared DALE Z. MAISEL, General Partner of Howard Associates, a Limited Partnership, who executed the foregoing Declaration of Easement on behalf of said Limited Partnership and who acknowledged the same to be the act and deed of Howard Associates, a Limited Partnership of the State of Maryland.

AS WITNESS my hand and Notarial Seal


NOTARY PUBLIC

My Commission expires:

July 1, 1982

EXHIBIT "A"

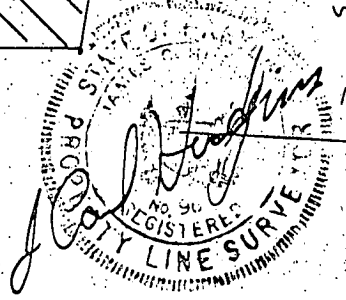
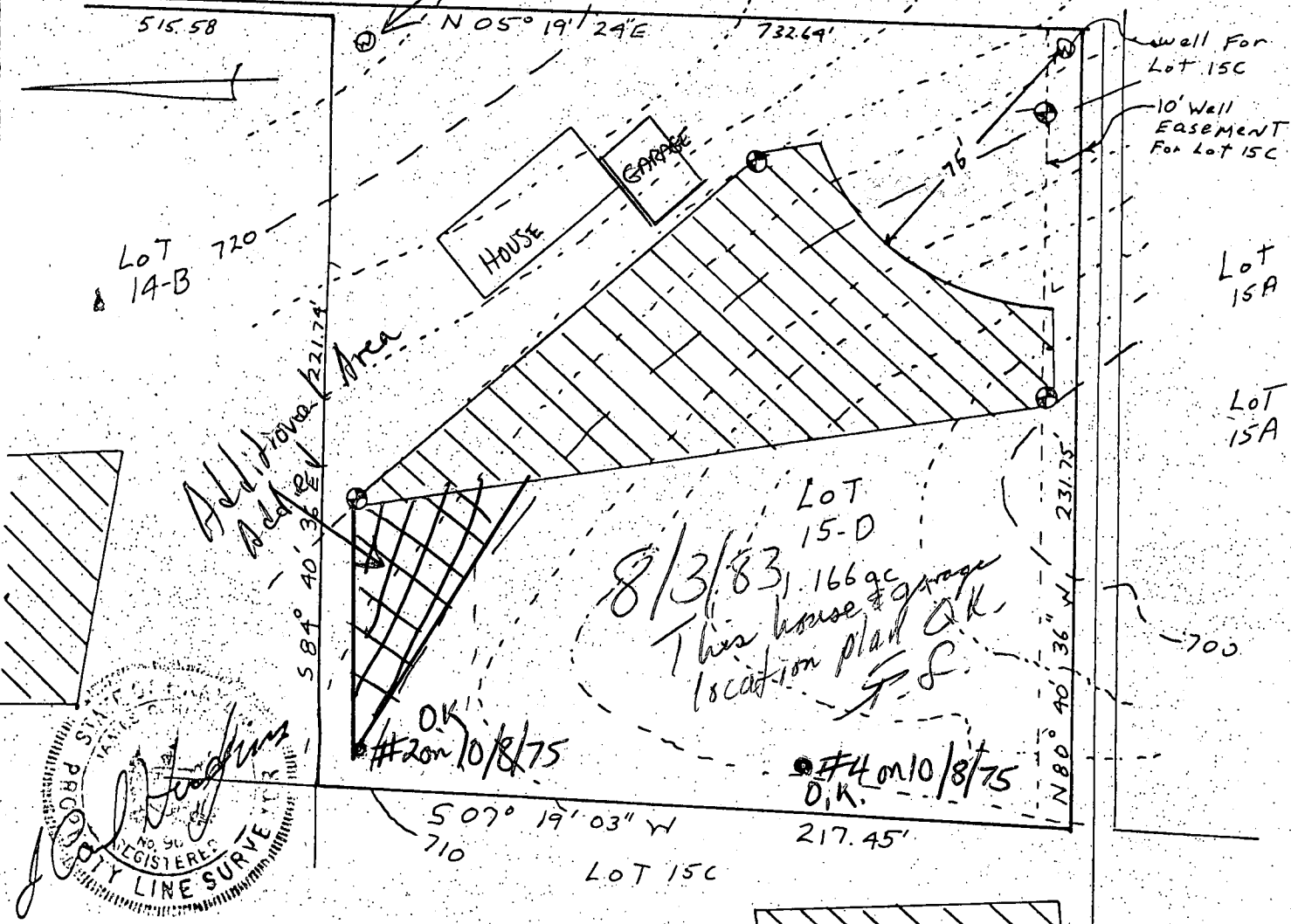
EASEMENT OVER LOT 15D FOR A WATER WELL
FOR THE BENEFIT OF LOT 15C

BEING a strip or parcel of land ten (10') feet wide, parallel to the north and contiguous with the North 84 degrees, 40 minutes, 36 seconds West, 231.75 foot line, the second call from Parcel 15D as described in a Deed dated February 18, 1975, from Carlotta Pizzuto to Howard Associates, a Limited Partnership of the State of Maryland, and recorded among the Land Records of Howard County, Maryland, in Liber 712, folio 422, etc.

8/3/83 Wells site per Carl Layman
in OK. J.S.

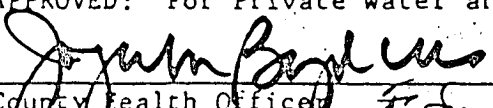
To old Frederick Rd.

Mac Road



This area designates a private sewage easement of 10,000 square feet as required by the Maryland State Department of Health and Mental Hygiene for individual sewage disposal. Improvements of any nature in this area are restricted until public sewage is available. These easements shall become null and void upon connection to a public sewage system. The County Health Officer shall have the authority to grant variances for encroachments into the private sewage easement. Recordation of a modified sewage easement shall not be necessary. Percolation test holes shown hereon have been field located and shown as "⊙". The lots shown hereon comply with the minimum ownership width and lot areas as required by the Maryland State Department of Health and Mental Hygiene. Percolation areas and water wells for adjoining lots have been shown where pertinent.

PERCOLATION TEST PLAT
LOT 15 D
MIDDLE TRAIL LISBON
PROPERTY OF
Howard Associates
4th Election District
Howard County, Maryland
Scale 1"=50'
Date 5-28-78
Revised 10-12-81
Revised 3-30-82 For well EASEMENT

APPROVED: For Private Water and Private Sewage Systems

 County Health Officer J.S. Date 4-8-82

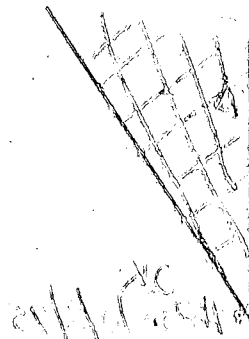
NTT Associates
Suite 307, Clark Bldg.
Columbia, MD 21044
321-0307

CARL B. LAYMAN

5755 THUNDER HILL RD.
COLUMBIA MD. 21043

992-1878
w 992-2223

[Faint handwritten notes]



RECEIVED
HOWARD COUNTY
HEALTH DEPT.
JUG 3 10 33 AM '82
DIVISION OF
ENVIRONMENTAL
HEALTH

B 1 7313

SEQUENCE NO. (OEP USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

OEP PERMIT NUMBER

40-81-0271

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

please print or type

fill in this form completely

9-15-83 9/21/83

Date Received

090683

OWNER INFORMATION

HOWARD RESEARCH & DEV

ROUSE CO. BLDG.

COLUMBIA MD 21044

LOCATION OF WELL

HOWARD COUNTY

MIDDLE TRAIL FARMS

SECTION LOT 150

WOODBINE

MILES FROM TOWN (enter 0 if in town) 2 MI

Dana Kyker, Jr. II

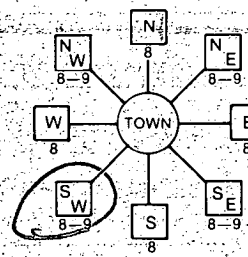
256

Westminster Rotary Well Drilling, Inc.

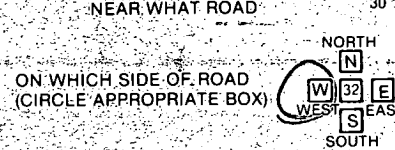
Box #861, Westminster, Md. 21157

Dana Kyker, Jr. II 9/1/83

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Old Frederick Rd.



500 DISTANCE FROM ROAD

ENTER FT or MI 0.7

WELL INFORMATION

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

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 225

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

A27196

COUNTY NAME COUNTY NO OEP SIGNATURE DATE ISSUED Frank Shenn 3/15/84

NORTH GRID 552000 EAST GRID 0776000

APPROXIMATE DEPTH OF WELL 200 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

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER 1. City

WRITE THE BOX NUMBER FROM THE MAP HERE

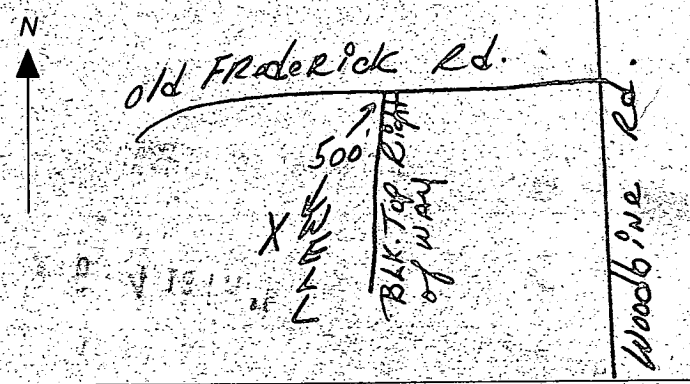
7706 5502

Location OK 85'-? casing 50+ open 30-bags cement 9/21/83 Tag & papers given to Kyker

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

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



Not to be filled in by driller (OEP USE ONLY)

APPROP. PERMIT NUMBER G A P

FORCE FS PERMIT NO. 40-81-0271

SPECIAL CONDITIONS

C1 **4448** SEQUENCE NO. (OEP USE ONLY)
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 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 27196**

DATE Received [] [] [] [] [] [] DATE WELL COMPLETED **092683** Depth of Well **203** (TO NEAREST FOOT) PERMIT NO. FROM "PERMIT TO DRILL WELL" **40-81-0271**

OWNER **Howard Research & Development** last name **Old Frederick Road** first name TOWN **Woodbine**
 STREET OR RFD SUBDIVISION **Middle Trail** SECTION LOT **150**

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 | |
| Dirt | 0 | 1 | |
| Soft Brn. Shale | 1 | 60 | X |
| Hard, Soft, Brn. Shale | 60 | 75 | X |
| Hard Brn. & Blue Shale | 75 | 90 | X |
| Blue Shale | 90 | 97 | |
| Hard Brn. Shale | 97 | 100 | X |
| Hard Brn. & Blue Schist | 100 | 123 | |
| Hard Brn. Schist | 123 | 126 | X |
| Hard Blue " | 126 | 142 | |
| Hard Brn. " | 142 | 143 | X |
| Hard Blue " | 143 | 160 | |
| Hard Brn. " | 160 | 162 | X |
| Hard Blue Slatel | 162 | 180 | |
| Hard Blue Schist | 180 | 185 | |
| Hard Brn " | 185 | 186 | |
| Hard Blue " | 186 | 203 | |

GROUTING RECORD
 WELL HAS BEEN GROUTED (Circle Appropriate Box) **Y** **N**
 TYPE OF GROUTING MATERIAL **CEMENT CM** BENTONITE CLAY **BC**
 NO. OF BAGS **30** NO. OF POUNDS **2,820**
 GALLONS OF WATER **180**
 DEPTH OF GROUT SEAL (to nearest foot) from **0** ft. to **80** 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 Nominal diameter (nearest inch) Total depth of main casing (nearest foot)
S T **6** **82**

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

DEPTH (nearest ft.)
 EACH SCREEN **H O** **82** **203**
 SLOT SIZE 1 2 3
 DIAMETER OF SCREEN (NEAREST INCH) from to

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

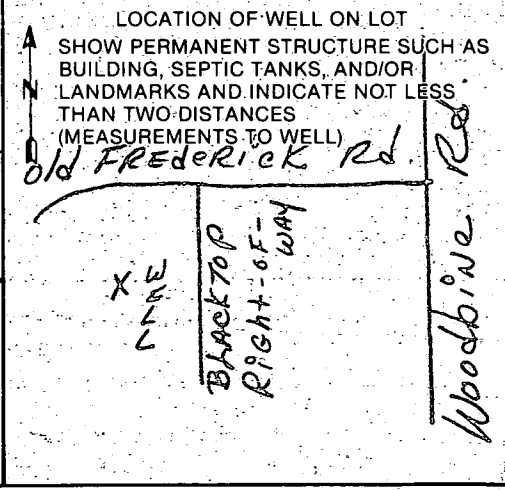
C 3
PUMPING TEST
 HOURS PUMPED (nearest hour) **4**
 PUMPING RATE (gal. per min. to nearest gal.) **85**
 METHOD USED TO MEASURE PUMPING RATE **Submersible**
 WATER LEVEL (distance from land surface) BEFORE PUMPING **50** WHEN PUMPING **168**
 TYPE OF PUMP USED (for test) **A** air **P** piston **T** turbine **C** centrifugal **R** rotary **O** other (describe below) **J** jet **S** submersible

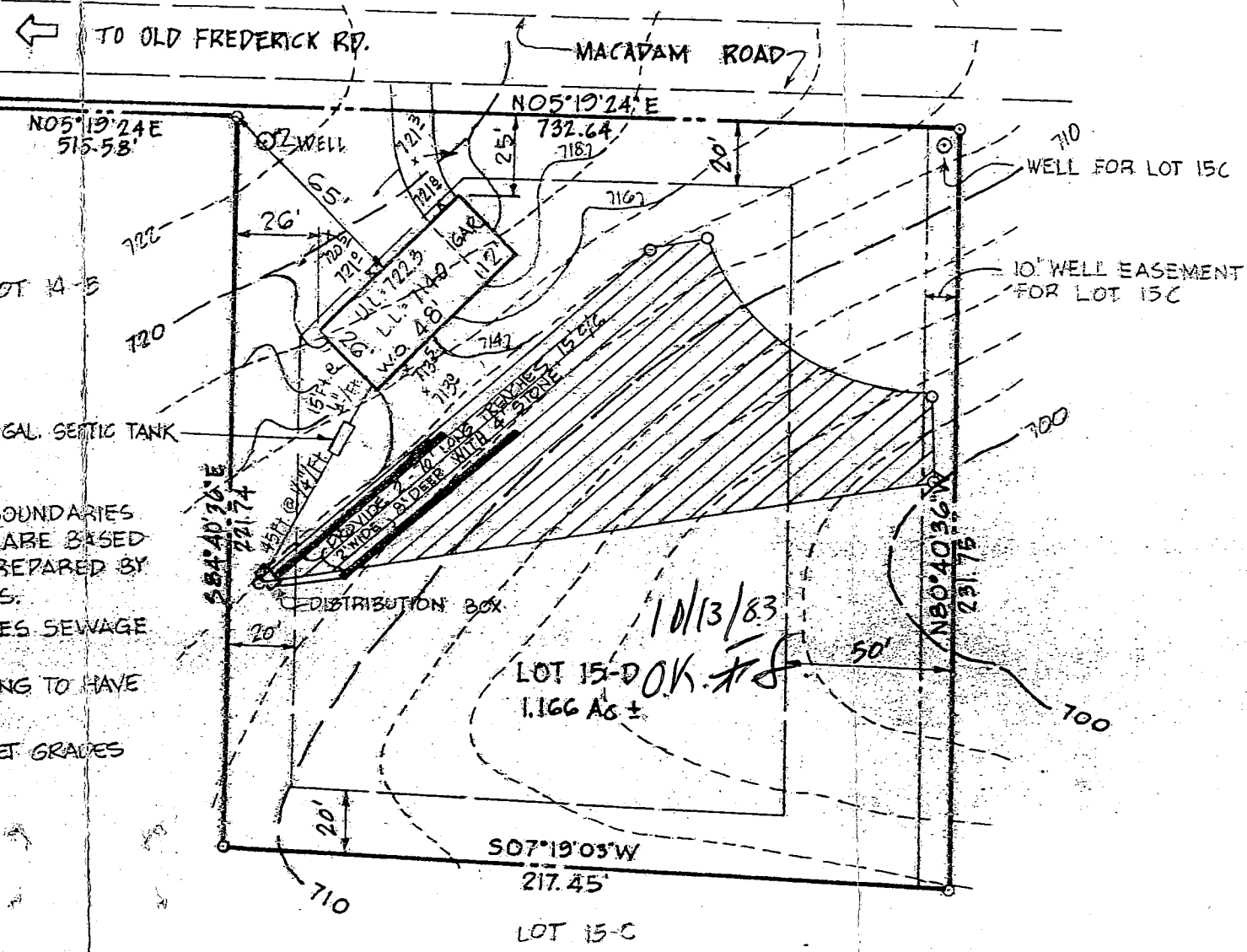
PUMP INSTALLED
 DRILLER WILL INSTALL PUMP YES **NO**
 IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE
 TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE: **S**
 CAPACITY: GALLONS PER MINUTE (to nearest gallon) **31** **35**
 PUMP HORSE POWER **37** **41**
 PUMP COLUMN LENGTH (nearest ft.) **43** **47**
 CASING HEIGHT (circle appropriate box and enter casing height) **+** above **-** below **2** (nearest foot)

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. **256**
Dana Kyker, Jr. II
 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)
 SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)





HOUSE:
 F.F. ELEV.: 722.3
 LL. ELEV.: 714.00
 INV. OUT.: 711.55

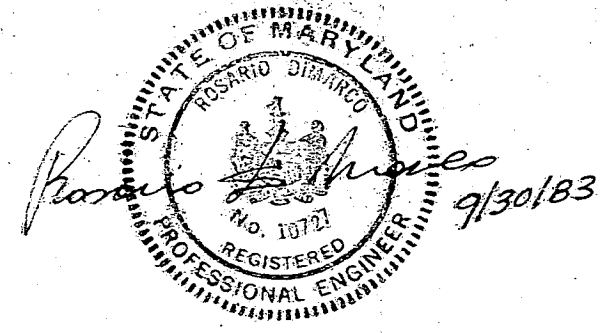
SEPTIC TANK:
 EXIST. GR.: 715.5
 FIN. GR.: 715.5
 INV. IN.: 711.24
 INV. OUT.: 710.94
 DISTRIBUTION BOX
 EXIST. GR.: 714.00
 FIN. GR.: 714.00
 INVERT IN.: 710.00

WELL
 EXIST. GR.: 722.25
 FIN. GR.: 722.25

- NOTES:**
- 1- TOPOGRAPHY & BOUNDARIES SHOWN HEREON ARE BASED UPON A PLAT PREPARED BY NTT ASSOCIATES.
 - 2- DESIGNATES SEWAGE EASEMENT
 - 3- PROPOSED DWELLING TO HAVE 3 BEDROOMS.
 - 4- CONTRACTOR TO SET GRADES IN FIELD.

10/13/83

LOT 15-D OK *[Signature]*
 1.166 Ac ±



| | | | | | |
|----------|---|---------|--------|------------|-----|
| TITLE | GRADING STUDY | | DATE: | SEPT. 1983 | |
| PROJECT | LOT 15D MIDDLE TRAIL LISBON | | SCALE: | 1" = 50' | |
| LOCATION | 4 TH ELECTION DISTRICT HOWARD CO., MD. | JOB NO. | 83026 | DRAWN BY: | RDM |

boender associates
 SUITE 302-107 TOWN & COUNTRY PROFESSIONAL BUILDING
 ELLICOTT CITY, MARYLAND 21043
 301-446-7777

engineers
 surveyors
 planners