

11/7/80 Filed APPROVED C.B.V.  
P 30978

# PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH\*

HOWARD COUNTY

ELLICOTT CITY

DISTRICT 4th.

INDEXED

DATE 10/10/80

10/30/80  
11/6/80  
11/7/80

Jack Fyeok, Jr.

IS PERMITTED TO INSTALL  ALTER

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

SUBDIVISION Middle Trail Farm ROAD 16393 Old Frederick Rd. LOT 24A

PROPERTY OWNER Edward Knutson

ADDRESS 1677 Kirkwood Road, Baltimore, Md. 21207

SPECIFICATIONS 3 Bedrooms

SEPTIC TANK CAPACITY 1000 GALLONS

DRAIN FIELD DEPTH FEET, BOTTOM AREA SQ. FT.

DEEP TRENCH DEPTH FEET, BOTTOM AREA SQ. FT.

TRENCHES SEEPAGE PITS  ABSORBENT SIDE-WALL AREA 120 SQ. FT. per bedroom

INLET PIPE FT. BELOW ORIGINAL GRADE. MAXIMUM DEPTH FT. BELOW ORIGINAL GRADE

EFFECTIVE DEPTH AT FT. BELOW ORIGINAL GRADE.

LOCATE DISPOSAL AREA FT. FROM LOT LINE AND FT. FROM LOT LINE AS SEEN WHEN FACING LOT FROM

TRENCHES to be 2 feet wide. Inlet to be 3 1/2 feet below original grade and effective absorbant area from 4-8 feet only. Maximum depth of trenches to be 8 feet below original grade. Trenches can not exceed 100 feet 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 feet distance between trenches, center to center. Run trenches on contour. LOCATION: Start trenches at a point 10 feet off line N75°05'28"W and 100' 1/25 ft up from line S07°01'15"W  
10/14/80 Change O.H. F.S.

PLANS APPROVED BY C. B. Streaker DATE 10/31/80

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 PLACING GRAVEL IN TRENCH.

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER.

NOTE: ALL PIPE FROM HOUSE TO DISPOSAL AREA MUST BE CAST IRON.

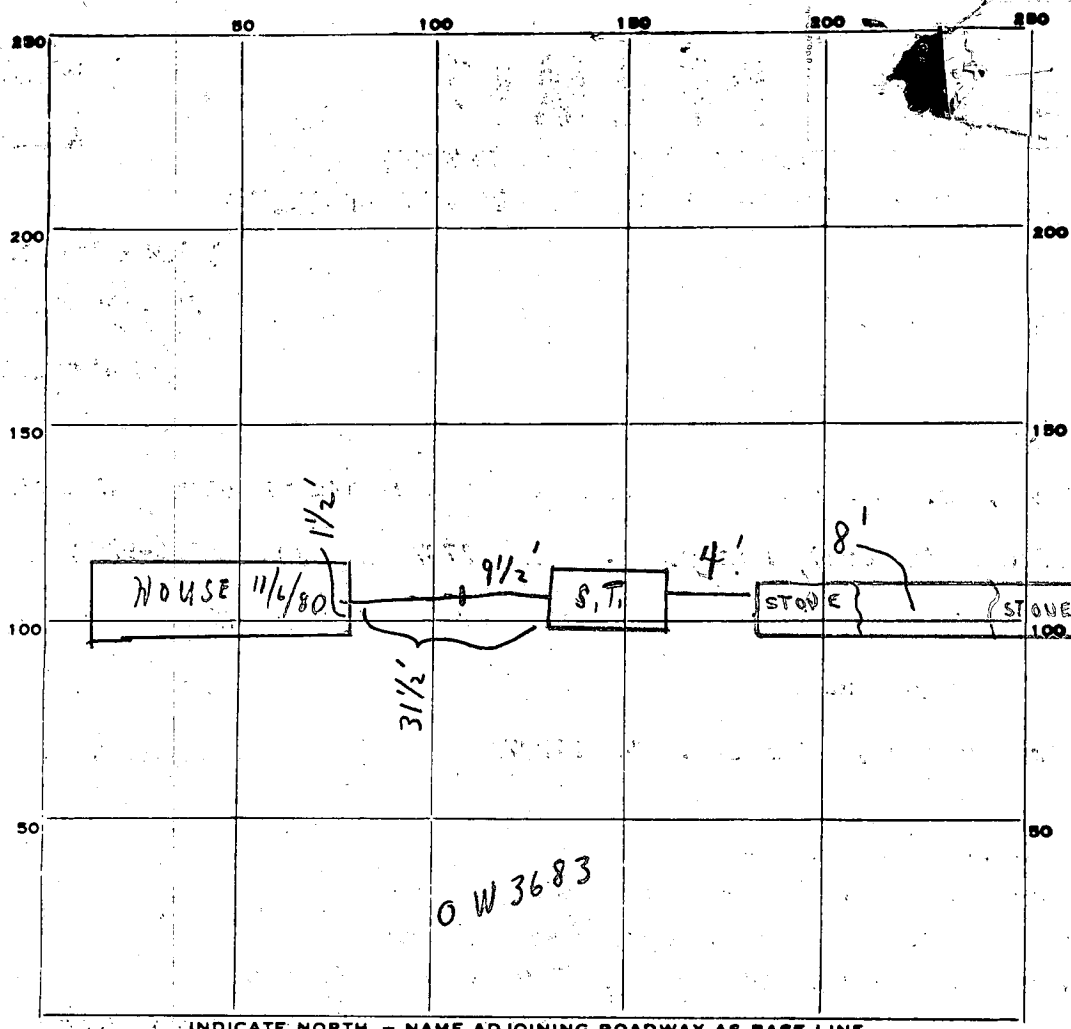
PERMIT VOID AFTER THREE YEARS.

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA ACCEPTED.

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

A 30852

OLD FREDERICK ROAD



INDICATE NORTH. - NAME ADJOINING ROADWAY AS BASE LINE.  
COMMON R/W

PERMIT CARD  S.T.

SEPTIC TANK, LEVEL  CLEANOUTS

DISTRIBUTION BOX, LEVEL \_\_\_\_\_

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

GRAVEL DEPTH 4.5 AUGIN. TOTAL LENGTH 95 FT.

NUMBER OF TRENCHES 1 TOTAL BOTTOM AREA \_\_\_\_\_

SEEPAGE PITS, INSIDE DIAMETER \_\_\_\_\_ FT. DEPTH BELOW INLET \_\_\_\_\_ FT.

ABSORBENT AREA 380 SQ. FT.

REMARKS 10/20/80 CHECKED - TRENCH ONLY OK FOR STONE + PER HOUSE PLAN,  
10/21/80 PARTIAL - NEED HOUSE CONNECTION; OK TO COVER FROM C.B.S.  
TANK TO TRENCH; TO CALL FOR FINAL. 11/6/80 CHECKED SYSTEM -  
NO CHANGE. C.B.S. 11/7/80 CHECKED SYSTEM - COMPLETE.  
C.B.S. C.B.S.

DATE SYSTEM APPROVED 11/7/80 INSPECTOR C. B. Steakes

# APPLICATION

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

A 30852

P \_\_\_\_\_

*Retreat*  
*9/21/80*  
*2:30 P.M.*  
*9:30 A.M.*  
*(Ketterman - digger)*

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

DISTRICT 4

DATE 8-20-80

BLDG. PERMIT SIGNED  
AND RETURNED 10/10/80  
B.P.# 44679

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 L. and KATHLEEN A. KNUTSON  
1677 KIRKWOOD ROAD BALTIMORE, MD 21207  
PRESENT ADDRESS ~~\_\_\_\_\_~~ PHONE 298-0259

PROPERTY LOCATION:  
SUBDIVISION MIDDLE TRAIL FARM (OLD FREDERICKS - WOODBINE) LOT NO. 24 A  
ROAD AND DESCRIPTION PRIVATE GRAVEL ROAD OFF OF OLD FREDERICK ROAD IN  
SUBDIVISION - Come in entrance by the Church  
SIZE OF LOT 1.307 A (150' X 350' APPROX.) TYPE BLDG. SFD (TO BE CONSTRUCTED)

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.

SIGNATURE OF APPLICANT Edward L. Knutson

APPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

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

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

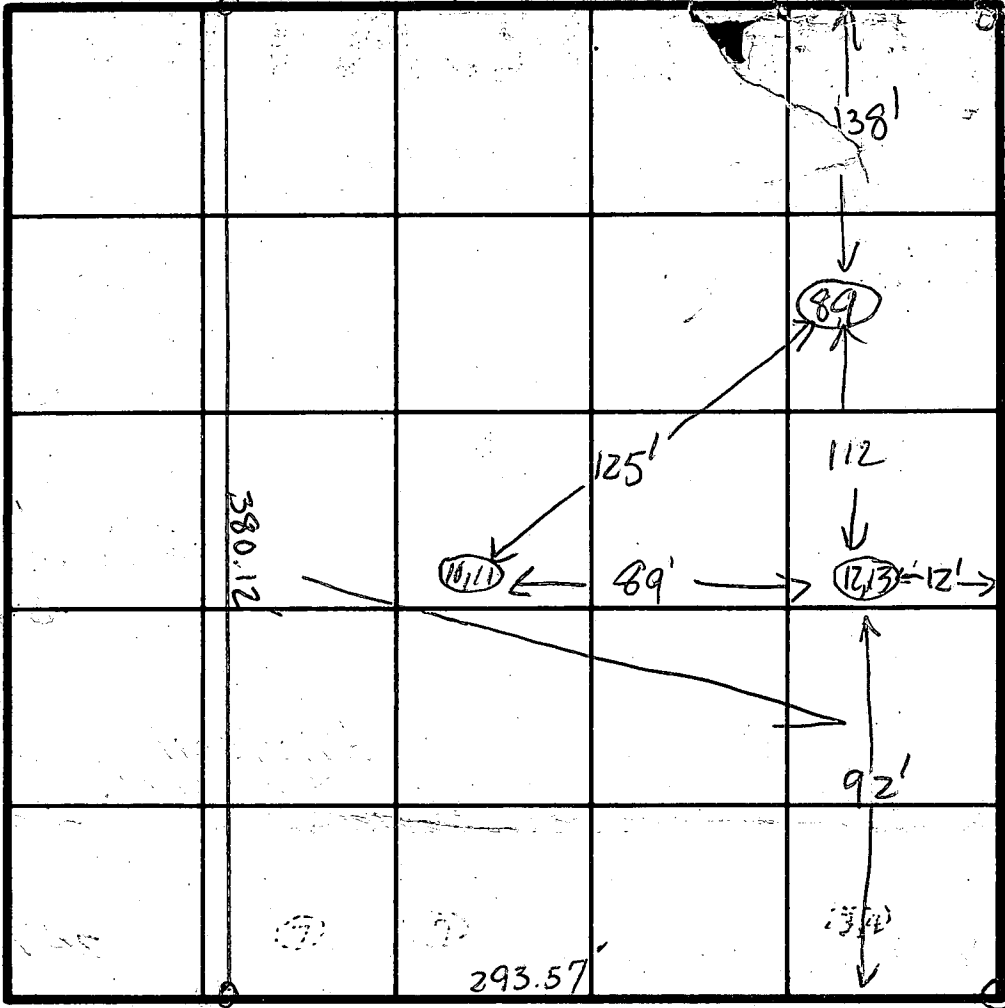
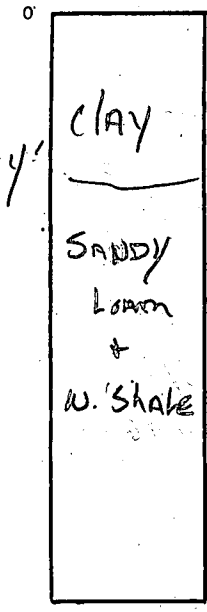
REASONS FOR REJECTION OR HOLDING \_\_\_\_\_

*Send perc certification drawings & Elevation Drawings*  
*sent 9-9-80 BK*

# THIS IS NOT A PERMIT

243

10, 11 12, 13  
SOIL PROFILE



24D

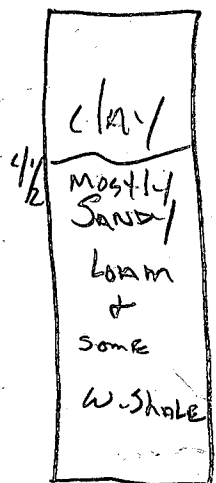
OLD PERC HOLES CBS 7.16.75

24E/24D

CORNER 24A/24B

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

8, 9



DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
9-2-80	8	7 1/2'	10:22	10:29	10:29	10:42	13 min
	9	12 1/2'	10:22	10:29	10:29	10:42	13 min
	10	4'	10:03	10:05	10:05	10:11	6 min
	11	12'	10:03	10:05	10:05	10:07	2 min
	12	4'	10:48	10:52	10:52	10:05	13 min
	13	12'	10:47	10:48	10:48	10:49	1 min

REMARKS OPEN FIELD, lot lines staked Test per owners stakes  
Could not locate old perc holes

TYPE OF SOIL \_\_\_\_\_  
TESTED BY SK 9-2-80 ALSO PRESENT KETSERMENS

# APPLICATION

A 21713

SEWAGE DISPOSAL TESTING

P \_\_\_\_\_

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT  
ENVIRONMENTAL HEALTH SERVICES

DISTRICT 4

P. O. BOX 476, ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 465-5000, EXT. 356

DATE 6/25/75

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

Any questions call:

ADDRESS \_\_\_\_\_ PHONE Joel Abramson

730-7733

PROPERTY LOCATION:

SUBDIVISION \_\_\_\_\_ LOT NO. 24A

ROAD AND DESCRIPTION r/w off Old Frederick Road

SIZE OF LOT 1.307 acres TYPE BLDG. 3 or 4

NUMBER OF BEDROOMS

IF NOT SINGLE RESIDENCE DESCRIBE \_\_\_\_\_ (Single Fmly. Dvllg.)

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)

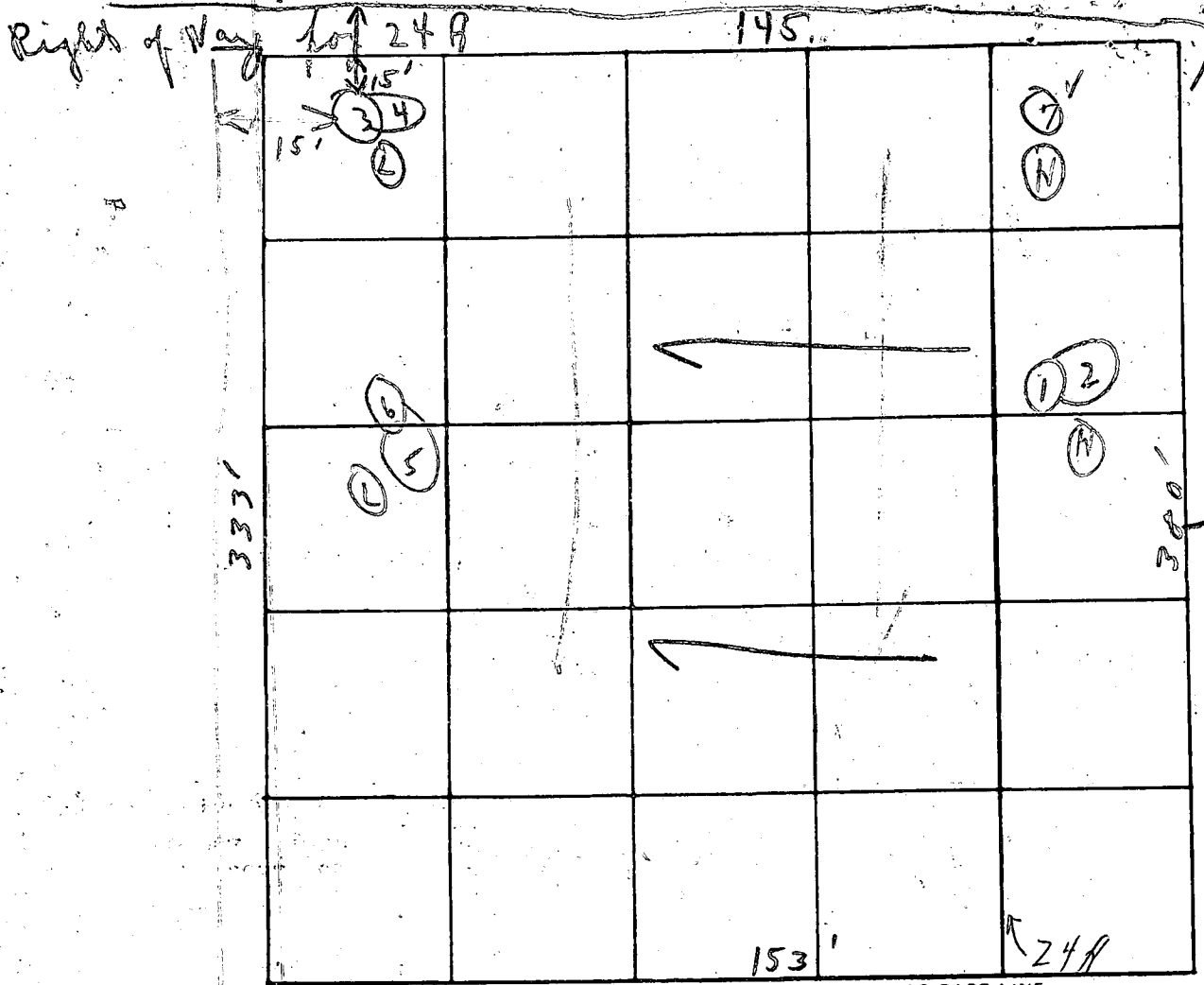
REJECTED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

(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.

24B

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
7/14/75	1	4'	12:25	12:28	12:28	12:33	5 min
We	2	1 1/2'	12:25	12:26	12:28	12:28	3 min
	3	4'	12:45	12:49	12:49	12:50	3 min
	4	1 1/2'	12:45	12:46	12:46	12:48	2 min
	5	5'	12:34	12:36	12:36	12:44	8 min
	6	12'	12:34	12:36	12:36	12:40	4 min
	7	12'	Visual		similar to H2		4 min
							12:25

Weather  
Stake  
2 marks

REMARKS \_\_\_\_\_

TYPE OF SOIL loose shaly weathered below clay

TESTED BY \_\_\_\_\_ ALSO PRESENT: B. Leonard  
B. Flood

Date Received (WRA use only) 9/22/80 DATE WELL COMPLETED PERMIT NO. FROM "PERMIT TO DRILL WELL" 40-23-3683  
 Depth of Well 200 (TO NEAREST FOOT)

OWNER: Knutson EDWARD L  
 STREET OR RFD: 1677 Kirkwood Road TOWN: Baltimore 21207  
 SUBDIVISION: Middle Trail SECTION: A LOT: 24

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	
top soil	0	2	
Red shale	2	14	
orange shale	14	20	
brown shale	20	35	
brown slate	35	55	
grey slate	55	64	
brown slate	64	71	
blue slate	71	74	
brown slate	74	76	
blue slate	76	80	
brown slate	80	83	
blue slate	83	170	
Quartz	170	172	
blue slate	172	200	

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box)  Y  N

TYPE OF GROUTING MATERIAL  
 CEMENT  CM BENTONITE CLAY  BC

NO. OF BAGS 13 NO. OF POUNDS 1300  
 GALLONS OF WATER 65  
 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 57 ft. (enter 0 if from surface)

CASING RECORD

insert appropriate code below

STEEL  ST CONCRETE  CO  
 PLASTIC  PL OTHER  OT

MAIN CASING TYPE Nominal diameter top(main) casing (nearest inch) Total depth of main casing (nearest foot)  
 S  T 6 63

C 3 (seq no)

PUMPING TEST  
 HOURS PUMPED (nearest hour) 3  
 PUMPING RATE (gal. per min. to nearest gal.) 3  
 METHOD USED TO MEASURE PUMPING RATE bucket  
 WATER LEVEL (distance from land surface) BEFORE PUMPING 40 WHEN PUMPING 200  
 TYPE OF PUMP USED (for test)  A air  P piston  T turbine  C centrifugal  R rotary  O other (describe below)  J jet  S submersible

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

EACH CASING

PUMP INSTALLED YES NO  
 DRILLER WILL INSTALL PUMP (CIRCLE APPROPRIATE BOX)  Y  N  
 IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE  
 TYPE OF PUMP (WRITE APPROPRIATE LETTER IN BOX - SEE ABOVE: (A, C, J, P, R, S, T, O))  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)  F above LAND SURFACE  below 2 (nearest foot)

SCREEN RECORD

insert appropriate code below

STEEL  ST BRASS, BRONZE  BR  HO OPEN HOLE  PL PLASTIC  OT OTHER

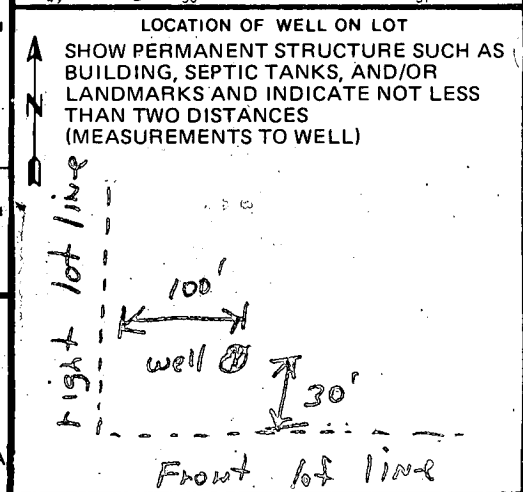
C 2 (Seq. no)

DEPTH (nearest ft.)

EACH SCREEN

1 H O 61 200  
 2  
 3

SLOT SIZE 2 3  
 DIAMETER OF SCREEN (NEAREST INCH) \_\_\_\_\_



CIRCLE APPROPRIATE BOX  
 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 I HAVE COMPLIED WITH ALL CONDITIONS STATED ON THE ABOVE-CAPTIONED "PERMIT TO DRILL WELL", AND THAT INFORMATION CONTAINED IN THIS REPORT IS TRUE, ACCURATE, AND COMPLETE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

DRILLERS IDENT. NO. 40  
 DRILLERS SIGNATURE: Thomas J. Costello  
 (MUST MATCH SIGNATURE ON APPLICATION)  
 SITE SUPERVISOR (sign of driller or journeyman responsible for sitework if different from permittee): Robert K. Neuhues

GRAVEL PACK \_\_\_\_\_  
 IF WELL DRILLED WAS FLOWING WELL CIRCLE BOX  F  
 WRA USE ONLY (NOT TO BE FILLED IN BY DRILLER)  
 T (E.R.O.S.)  W Q  
 TELESCOPE CASING LOG INDICATOR OTHER DATA

B 1	3298	SEQUENCE NO. (WRA USE ONLY)	<b>STATE OF MARYLAND</b> <b>WATER RESOURCES ADMINISTRATION</b> <b>TAWES STATE OFFICE BLDG., ANNAPOLIS, MARYLAND 21401</b> <b>APPLICATION FOR PERMIT TO DRILL WELL</b>	<b>WRA PERMIT NUMBER</b> <b>HO-73-3683</b> <b>FILL IN THIS FORM COMPLETELY</b>
-----	------	-----------------------------	--	--

DATE RECEIVED (WRA USE ONLY) <i>let 9/22/80</i> <i>9/30/80</i>	OWNER <u>Knutson Edward L.</u> COL 15 LAST NAME FIRST NAME COL. 34 STREET OR RFD <u>1677 Kirkwood Rd</u> COL 36 COL. 55 POST OFFICE <u>Baltimore Md 21207</u> COL 57 COL. 76
--	---

B 1	CONTINUED	DRILLER INFORMATION
1 2 3 (SEQ. NO.) 6		
DATE <u>9-13-80</u>	LICENSE NUMBER <u>40</u>	
SIGNATURE <u>George Eustada</u>		

B 3	LOCATION OF WELL
1 2 3 (SEQ. NO.) 6	
COUNTY <u>Howard</u>	
SUBDIVISION <u>Middle Neck Farm</u>	
SECTION <u>A</u> LOT <u>24</u>	
NEAREST TOWN <u>Lebanon</u>	
MILES FROM TOWN (ENTER 0 IF IN TOWN) <u>2</u>	

B 2	WELL INFORMATION
1 2 3 (SEQ. NO.) 6	
MAXIMUM PUMPING RATE (GALLONS PER MINUTE) <u>5</u>	
AVERAGE DAILY QUANTITY NEEDED (GALLONS PER DAY) <u>600</u>	
USE FOR WATER (CIRCLE APPROPRIATE BOX) <input checked="" type="checkbox"/> HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) <input type="checkbox"/> FARMING, AGRICULTURE, IRRIGATION <input type="checkbox"/> INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOVERNMENT. <input type="checkbox"/> MUNICIPAL WATER SUPPLY <input type="checkbox"/> PRIVATE WATER COMPANY <input type="checkbox"/> TEST	

B 4	DIRECTION FROM TOWN (CIRCLE APPROPRIATE BOX)
1 2 3 (SEQ. NO.) 6	
<input type="checkbox"/> NORTH <input checked="" type="checkbox"/> EAST <input type="checkbox"/> NE NORTHEAST <input type="checkbox"/> SE SOUTHEAST <input type="checkbox"/> SOUTH <input checked="" type="checkbox"/> WEST <input type="checkbox"/> NW NORTHWEST <input type="checkbox"/> SW SOUTHWEST	
NEAR WHAT ROAD <u>Old Frederick Rd</u>	
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) <input type="checkbox"/> NORTH <input checked="" type="checkbox"/> SOUTH <input type="checkbox"/> EAST <input type="checkbox"/> WEST	
DISTANCE FROM ROAD (ENTER DISTANCE AND CIRCLE APPROPRIATE BOX) <u>1500</u>	

APPROXIMATE DEPTH OF WELL 150 FEET

APPROXIMATE DIAMETER OF WELL 6" (NEAREST INCH)

METHOD OF DRILLING USED (CIRCLE APPROPRIATE METHOD)

BORED (OR AUGERED)  JETTED  DRIVEN

AIR-ROTARY  AIR-PERCUSSION  ROTARY (HYDRAULIC ROTARY)

CABLE  REVERSE-ROTARY  DRIVE-POINT

OTHER (DESCRIBE) \_\_\_\_\_

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 (WRA USE ONLY)

APPROPRIATION PERMIT NUMBER 54 ENGINEER REVIEW DISTRICT NO. 63

FORCE 67 WRITE INITIALS IN BOX 68 CONDITIONS 70 71 72 73 74 75 76 77 78 79

HEALTH DEPARTMENT APPROVAL

COUNTY-NAME Howard COUNTY NO. A30852

APPROVED BY Dred Frommelt, Sanitarian

DATE 9/04/80

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS, ROADS AND STREAMS WITH NORTH IN THE DIRECTION OF THE ARROW, AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION OR STREAM CROSSING SHOWN ON THE SKETCH. ALSO SHOW, BY MEANS OF AN "X", THE WELL LOCATION IN THE BOX BELOW AND THE BOX NUMBER, FROM THE WELL LOCATION MAP.

N ↑

*Old Frederick Rd*

*US 70*

*63" casing*

*2' above gr. section*

*58' open*

*13' bags cement*

*9/22/80*

BOX NUMBER 770  
550

NORTH COORDINATE <u>550000</u>	
EAST COORDINATE <u>0775000</u>	
ELEVATION AT WELL HEAD (FEET) <u>65 66 67 68</u>	

SPECIAL CONDITIONS 8-63 (WRA USE ONLY)

1 2 3 (SEQ. NO.) 6

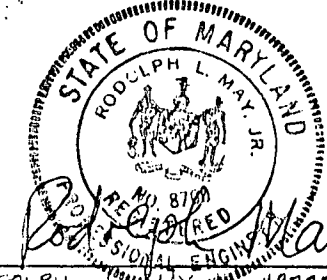


Oct 10, 1980  
 Revised by  
 Larry S. Stein  
 HOUSE

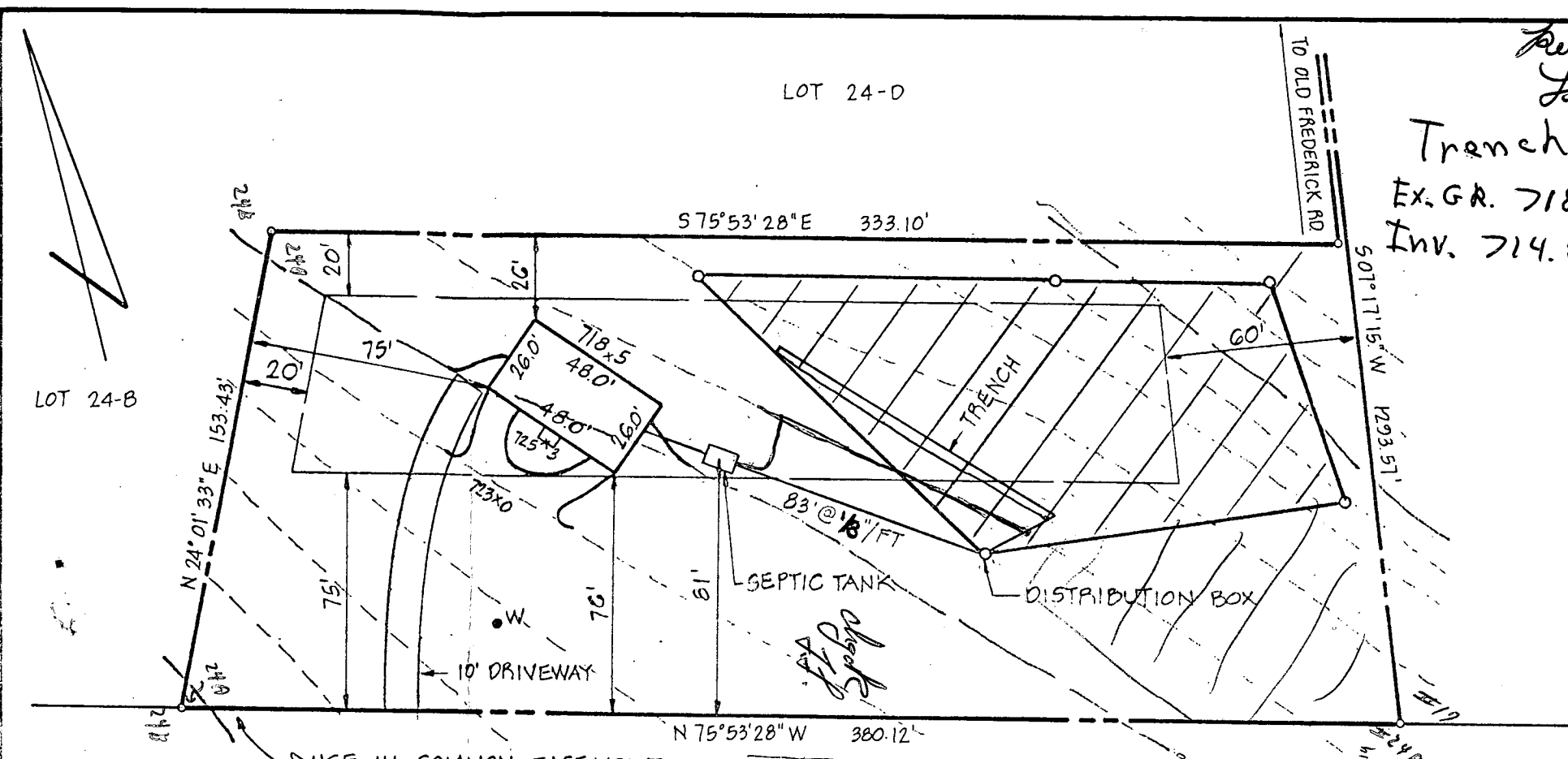
Trench  
 Ex. GR. 718.5  
 Inv. 714.5

F.F. ELEV. = 727.8  
 BSMT. ELEV. = 719.0  
 INV. OUT = 716.95  
 SEPTIC TANK  
 EX. GR. = 719.5  
 FIN. GR. = 719.5  
 INV. IN = 716.53  
 INV. OUT = 716.23  
 DISTRIBUTION BOX  
 EX. GR. = ~~718.5~~ 719.5  
 FIN. GR. = ~~718.5~~ 719.5  
 INV. IN = ~~715.0~~ 715.23  
 WELL  
 EX. GR. = 724.5  
 FIN. GR. = 724.5

I HEREBY CERTIFY THAT THE GRADES FOR THIS LOT ARE TRUE AND CORRECT BASED ON PERC TEST PLAT APPROVED 10/20/76



RODOLPH L. MAY JR. #8700 DATE 9-24-80



- NOTES:
1. CONTRACTOR TO SET GRADES IN FIELD
  2. TOPO BASED ON PLAN PREPARED BY RICHARD P. BROWNE ASSOC.

10/10/80  
 Drawing & elevations OK.  
 T.S.

TITLE GRADING STUDY			DATE: SEPT, 1980	<b>boender associates</b> SUITE 102-107 TOWN & COUNTRY PROFESSIONAL BUILDING ELLICOTT CITY, MARYLAND 21043 301-465-7777	engineers surveyors planners
PROJECT LOT 24A - MIDDLE TRAIL FARM			SCALE: 1" = 50'		
LOCATION 4TH ELECTION DISTRICT	HOWARD CO., MD.	JOB NO.: 30188	DRAWN BY: J.B.		