

System first
PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY

ELLICOTT CITY

DISTRICT 5th

INDEXED

DATE 3/2/79

John Finnegan

Ken Schiesler

IS PERMITTED TO INSTALL X ALTER

ADDRESS

PHONE

SUBDIVISION Highland Lake

ROAD 1490 River Clyde Drive

LOT 41

PROPERTY OWNER John Finnegan

ADDRESS

SPECIFICATIONS 5 bedrooms

SEPTIC TANK CAPACITY 1500 GALLONS

DRAIN FIELD DEPTH FEET, BOTTOM AREA SQ. FT.

DEEP TRENCH DEPTH FEET, BOTTOM AREA SQ. FT.

SEEPAGE PITS ABSORBENT SIDE-WALL AREA 160 SQ. FT. per bedroom.

INLET PIPE 4 FT. BELOW ORIGINAL GRADE. MAXIMUM DEPTH 12 FT. BELOW ORIGINAL GRADE

EFFECTIVE DEPTH AT 5 FT. BELOW ORIGINAL GRADE.

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

BLDG. PERMIT SIGNED
AND RETURNED 7/2/79

Serial No. 38493

Location per engineer's plat. If dry well and trench are used, need a 5 ft. earth

buffer between dry well and trench. 85' from River Clyde Dr. + 35' ft

from left side as seen when facing from River Clyde Dr.

OK for trenches 65' long - 12' deep - 8 ft stone DB box - 2 ins. / 1' contour / 1' 1/2" dia

PLANS APPROVED BY Donald Monaghan/C. Streaker

DATE

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.

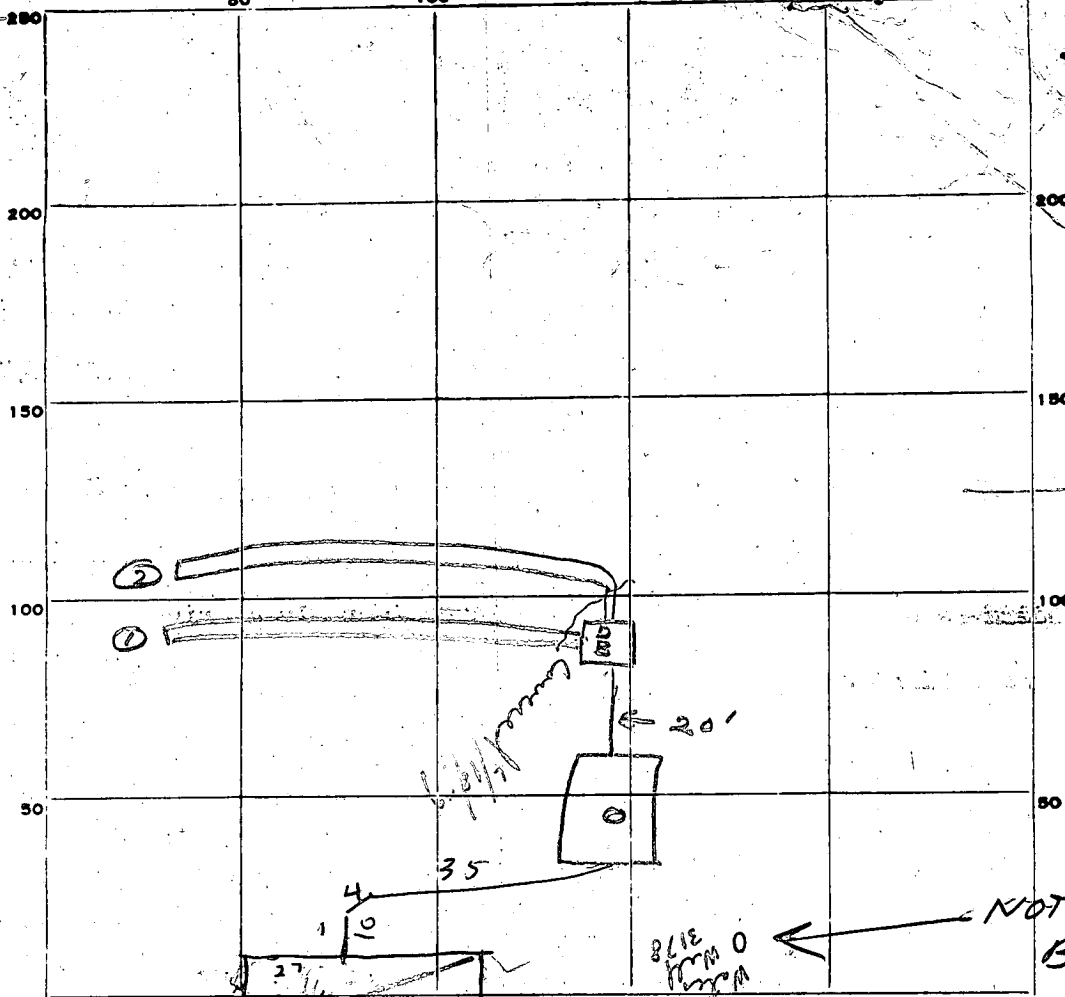
PERMIT VOID AFTER THREE YEARS.

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.**

RIVER CLYDE DR

160
80
130
8
1040



NOTE WELL
BEHIND
HOUSE

INDICATE NORTH & NAME ADJOINING ROADWAY AS BASE LINE.

PERMIT CARD

NO/24/4179

SEPTIC TANK, LEVEL

CLEANOUTS

ST

N/A D.W.
N/A C.B.

DISTRIBUTION BOX, LEVEL

TILE FIELD, DEPTH 12 FT. TRENCH WIDTH 2 FT.

GRAVEL DEPTH 9' avg. TOTAL LENGTH 65 FT.

910

NUMBER OF TRENCHES 2 TOTAL BOTTOM AREA

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

ABSORBENT AREA 910 SQ. FT.

REMARKS 6/15/79 - OK to cover work to trenches. Add gravel & pipe to trenches. Call. JB
6/18/79 Checked found - covered to trenches; pipes on trenches to 3' of surface.
12/14/79 - HOUSE LOOK UP OK

DATE SYSTEM APPROVED

12/14/79

INSPECTOR

Raymond Hodges

DRILLER: OBTAIN HEALTH DEPT. APPROVAL AND RETURN ALL PARTS OF THIS FORM TO THE WATER RESOURCES ADMINISTRATION.

EMERGENCY NO. (If any) -

1	5334	SEQUENCE NO. (WRA USE ONLY)	STATE OF MARYLAND WATER RESOURCES ADMINISTRATION TAWES STATE OFFICE BLDG., ANNAPOLIS, MARYLAND 21401 APPLICATION FOR PERMIT TO DRILL WELL	WRA PERMIT NUMBER
				FILL IN THIS FORM COMPLETELY

DATE RECEIVED (WRA USE ONLY) 3/1/79	OWNER FINNEGAN, JOHN COL 15 LAST NAME	FIRST NAME COL. 34
	STREET OR RFD 5373 HESPERUS DRIVE COL 36	COL. 55
	POST OFFICE COLUMBIA, MD 21045 COL 57	COL. 76

1	CONTINUED	DRILLER INFORMATION
2	8 (SEQ. NO.)	6
DATE	JANUARY 30, 1979	LICENSE NUMBER 120
B. EDGAR HARRIS SONS CORP.		
FIRST NAME	DRILLER	LAST NAME
SIGNATURE		

1	2	WELL INFORMATION
2	8 (SEQ. NO.)	6
MAXIMUM PUMPING RATE (GALLONS PER MINUTE)	5	12
AVERAGE DAILY QUANTITY NEEDED (GALLONS PER DAY)	750	20

USE FOR WATER (CIRCLE APPROPRIATE BOX)	
☒ HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)	
☐ FARMING, AGRICULTURE, IRRIGATION	
☐ INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOVERNMENT.	
☐ MUNICIPAL WATER SUPPLY	} MUST HAVE STATE HEALTH DEPT. APPROVAL
☐ PRIVATE WATER COMPANY	
☐ TEST	

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

REPLACEMENT OR DEEPENED 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 DEEPEAN AN EXISTING WELL	
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEANED (IF AVAILABLE)	

NOT TO BE FILLED IN BY DRILLER (WRA USE ONLY)	
APPROPRIATION PERMIT NUMBER	ENGINEER REVIEW DISTRICT NO.
FORCE	CONDITIONS

1	4	CONTINUED	HEALTH DEPARTMENT APPROVAL
2	8 (SEQ. NO.)	6	
STATE HEALTH (CIRCLE BOX)	Howard	W29492	
MO.	DAY	YR.	COUNTY NO.

1	3	LOCATION OF WELL
2	8 (SEQ. NO.)	6
COUNTY	HOWARD	21
SUBDIVISION	HIGHLAND LAKES	42
SECTION		41
NEAREST TOWN	CLARKSVILLE	50
MILES FROM TOWN (ENTER 0 IF IN TOWN)	2	71

1	4	DIRECTION FROM TOWN (CIRCLE APPROPRIATE BOX)		
2	8 (SEQ. NO.)	6		
☐ NORTH	☐ EAST	☐ N E NORTHEAST	☐ S E SOUTHEAST	
☐ SOUTH	☐ WEST	☐ N W NORTHWEST	☒ S W SOUTHWEST	
NEAR WHAT ROAD	PRESWICK DRIVE			
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)	☒ NORTH	☐ SOUTH	☐ EAST	☐ WEST
DISTANCE FROM ROAD (ENTER DISTANCE AND CIRCLE APPROPRIATE BOX)	120			

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWN, 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.

see back

BRIGHTON DAM RD

HIGHLAND ROAD

RT 108

BOX NUMBER

810

490

NORTH COORDINATE

EAST COORDINATE

ELEVATION AT

well site

1 MAR 79

(G40) 3 SS

no property corners (stakes)

mowed

HIGH
WEEDS

R
I
V
E
R
C
R
O
Y
E

AS STAKED

80'

old perc

110'

35'

(20' IN)

*
Lot. A1

41

Septic
system
first per
D.W.M.

Septic tanks { 1-3 Bedroom 1000 gallon
4 Bedroom 1250 gallon

- ② Dry well to have 160 sq ft effective
absorbant sidewall area per bedroom
below first 5' of original soil. Unit
to be 4' and maximum depth 12'.
Location per plat.

1490 River Clyde Drive

5bed

③ ^{or} If dry well & trench
used - need:

- ① 5' earth buffer between
dry well & trench
- ② 2 inspections of trench
before and after ^{stone} gravel in.

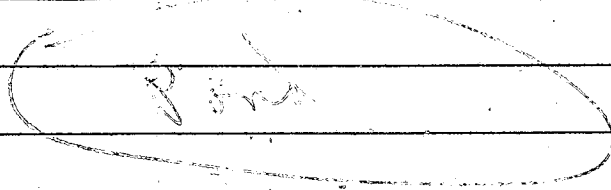
approved by - D.W.M. [spec/c.B.L.] * Dry well, 1/101
for Dry well & trench

Highland Lake

Final # 41.

~~Lat. # 43~~

~~4/1/77~~



1600 ft.

about 4'

good ground 5'

13 m

6 m

(1) 2

4 min 3

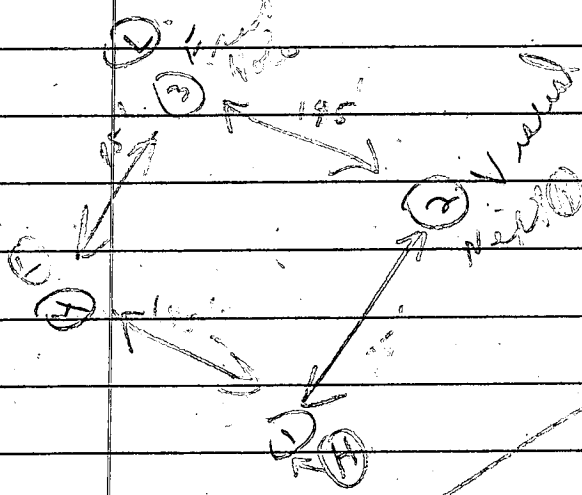
15' (L) 12 min

7 m 4

3 m (L)

6 45 = 8 min

Depth	Lat. 1	Lat. 2	Lat. 3	Lat. 4
3'	3.57	4.03	4.03	4.03
13 1/2'	3.59	4.01	4.01	4.01
19'	3.59	4.01	4.01	4.01
8'	2.53	2.55	2.55	2.55
15'	2.51	2.56	2.56	2.56
7'	3.36	3.45	3.45	3.45
14'	3.32	3.40	3.40	3.40



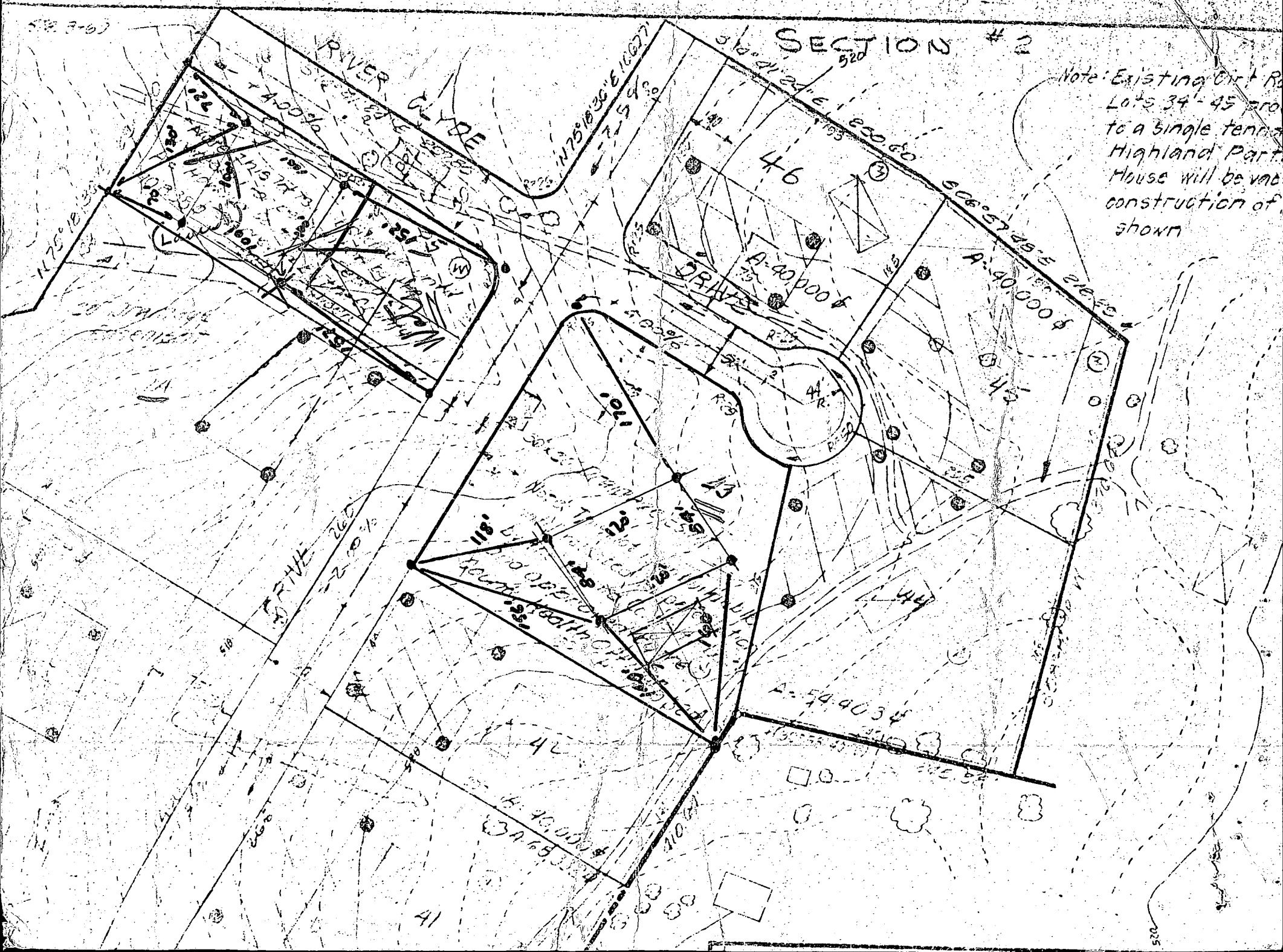
Hard ground

Soil Profile
(Hard loam
below clay)

518 3-67

SECTION # 2

Note: Existing Cir. Rd.
Lots 34-45 pro
to a single tenm
Highland Part
House will be vac
construction of
shown





DRYWELL	
EX. GRADE	517.0
PROPOSED GRADE	517.0
INVERT IN	513.0
SEPTIC TANK	
EX. GRADE	517.8
PROPOSED GRADE	517.8
INVERT IN	513.4
INVERT OUT	513.1
HOUSE	
FIN. FIRST FLOOR	521.0
BASEMENT	512.0
INVERT OUT	514.0
WELL	
EX. GRADE	521.5
PROPOSED GRADE	521.5

NOTE: CONTRACTOR SHALL ESTABLISH GRADES IN THE FIELD.

TITLE GRADING STUDY LOT 41			
PROJECT HIGHLAND LAKE SUBDIVISION			
LOCATION 5 th ELECTION DISTRICT HOWARD COUNTY, MARYLAND			
DATE: 1 NOV. 78	DESIGN BY:	DRAWN BY:	CHECKED BY:
SCALE: 1" = 50'	JOB NO.: 78245	DRAWING NO.:	
boender associates		engineers surveyors planners	
BALTIMORE 301-465-7777 ♦ SALISBURY 301-749-1286			

STATE OF MARYLAND WATER RESOURCES ADMINISTRATION TAWES STATE OFFICE BLDG., ANNAPOLIS, MARYLAND 21401 APPLICATION FOR PERMIT TO DRILL WELL		WRA PERMIT NUMBER HO-73-3178 FILL IN THIS FORM COMPLETELY								
B 1 5334 SEQUENCE NO. (WRA USE ONLY) 1 2 3 (SEQ. NO.) 6 (THIS NUMBER IS TO BE PUNCHED IN COLUMNS 3-6 OF ALL CARDS)		DATE RECEIVED (WRA USE ONLY) 4/19/79 OWNER FINNEGAN, JOHN COL 15 LAST NAME 5373 HESPERUS DRIVE COL 36 ANNAPOLIS, MD 21405 COL 57								
B 1 CONTINUED DRILLER INFORMATION 1 2 3 (SEQ. NO.) 6 DATE JANUARY 30, 1979 LICENSE NUMBER 120 G. EDGAR HARRIS & SONS CORP FIRST NAME DRILLER LAST NAME SIGNATURE <i>[Signature]</i>		B 3 LOCATION OF WELL 1 2 3 (SEQ. NO.) 6 COUNTY HOWARD (DO NOT ABBREVIATE COUNTY NAME) 21 SUBDIVISION HIGHLAND LAKES 42 SECTION 44 46 LOT 41 50 NEAREST TOWN CLARKSVILLE 71 MILES FROM TOWN (ENTER 0 IF IN TOWN) 2 MI 76 77 78								
B 2 WELL INFORMATION 1 2 3 (SEQ. NO.) 6 MAXIMUM PUMPING RATE (GALLONS PER MINUTE) 5 12 AVERAGE DAILY QUANTITY NEEDED (GALLONS PER DAY) 750 20 USE FOR WATER (CIRCLE APPROPRIATE BOX) ☒ D HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) ☐ F FARMING, AGRICULTURE, IRRIGATION ☐ I INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOVERNMENT. ☐ M MUNICIPAL WATER SUPPLY ☐ P PRIVATE WATER COMPANY ☐ T TEST MUST HAVE STATE HEALTH DEPT. APPROVAL		B 4 DIRECTION FROM TOWN (CIRCLE APPROPRIATE BOX) <table border="1" style="width: 100%; text-align: center;"><tr><td>☐ N NORTH</td><td>☐ E EAST</td><td>☐ NE NORTHEAST</td><td>☐ SE SOUTHEAST</td></tr><tr><td>☐ S SOUTH</td><td>☐ W WEST</td><td>☐ NW NORTHWEST</td><td>☐ SW SOUTHWEST</td></tr></table> NEAR WHAT ROAD PRESWICK DRIVE ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) ☒ N ☐ S ☐ E ☐ W MI 38 39 DISTANCE FROM ROAD (ENTER DISTANCE AND CIRCLE APPROPRIATE BOX) 120 34	☐ N NORTH	☐ E EAST	☐ NE NORTHEAST	☐ SE SOUTHEAST	☐ S SOUTH	☐ W WEST	☐ NW NORTHWEST	☐ SW SOUTHWEST
☐ N NORTH	☐ E EAST	☐ NE NORTHEAST	☐ SE SOUTHEAST							
☐ S SOUTH	☐ W WEST	☐ NW NORTHWEST	☐ SW SOUTHWEST							
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 30-37 AIR-ROTARY AIR-PERCUSSION ROTARY (HYDRAULIC ROTARY) CABLE REVERSE-ROTARY DRIVE-POINT OTHER (DESCRIBE)		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. 63'-CASING 2'-ABOVE GR 24'-OPEN HOLE BRIGHTON DAM RD 50'-JET 36-BAGS CEMENT SEE BACK 4/20/79								
REPLACEMENT OR DEEPEINED 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 DEEPEIN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE)		NOT TO BE FILLED IN BY DRILLER (WRA USE ONLY) APPROPRIATION PERMIT NUMBER 54 63 65 ENGINEER REVIEW DISTRICT NO. FORCE WRITE INITIALS IN BOX CONDITIONS 70 71 72 73 74 75 76 77 78 79								
B 4 CONTINUED HEALTH DEPARTMENT APPROVAL 1 2 3 (SEQ. NO.) 6 41 S STATE HEALTH (CIRCLE BOX) HOWARD W29492 MO. DAY YR. APPROVED BY F. Frommelt DATE 05 79 Sanitarian		BOX NUMBER 810 490 NORTH COORDINATE 49 50 51 52 53 54 55 EAST COORDINATE 57 58 59 60 61 62 63 ELEVATION AT WELL HEAD (FEET) 65 66 67 68 0/0 5/0								
B 5 SPECIAL CONDITIONS 8-63 (WRA USE ONLY) 1 2 3 (SEQ. NO.) 6										

4/18/79

truck out of cement
& water - stopped grout
at 30 Bags

RECEIVED
MAR 21 9 18 AM '79
HOWARD COUNTY
HEALTH DEPT.
ELIOT, MD.

4/20/79

grout 6 more bags cement

C 1	5518	SEQUENCE NO. (WRA USE ONLY)	STATE OF MARYLAND WATER RESOURCES ADMINISTRATION		THIS REPORT MUST BE SUBMITTED WITHIN 30 DAYS AFTER WELL COMPLETE
1 2 3 (SEQ. NO.) 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)		TAWES STATE OFFICE BLDG. ANNAPOLIS, MD. 21401			FILL IN THIS FORM COMPLETELY
DATE RECEIVED (WRA USE ONLY)		WELL COMPLETION REPORT		COUNTY NUMBER	
DATE WELL COMPLETED		DEPTH OF WELL		PERMIT NO. FROM "PERMIT TO DRILL WELL"	
3-31-79		150		40-73-3178	
8-13		22 (TO NEAREST FOOT) 26		28 29 30 31 32 33 34 35 36 37	
15 20		120		DRILLERS IDENTIFICATION NO.	
OWNER: FINNIGAN, JOHN LAST NAME FIRST NAME					
STREET OR RFD: 5372 HESPERUS DRIVE POST OFFICE: COLUMBIA, MD 21045					

WELL LOG			GROUTING RECORD			PUMPING TEST		
STATE THE KIND OF FORMATIONS PENETRATED; THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING			WELL HAS BEEN GROUTED (CIRCLE APPROPRIATE BOX)			HOURS PUMPED (TO NEAREST HOUR)		
DESCRIPTION (USE ADDITIONAL SHEETS IF NECESSARY)			TYPE OF GROUTING MATERIAL (CIRCLE BOX)			PUMPING RATE (GALLONS PER MINUTE TO NEAREST GALLON)		
FEET FROM TO CHECK IF WATER BEARING			CEMENT ☒ BENTONITE CLAY ☐			METHOD USED TO MEASURE PUMPING RATE		
OVERBURDEN 0 8			NO. OF BAGS 36 NO. OF POUNDS 3600			WATER LEVEL: (DISTANCE FROM LAND SURFACE)		
BROWN SHALE 8 60			GALLONS OF WATER 216			BEFORE PUMPING 34 (NEAREST FOOT)		
GRAY ROCK 60 150 X			DEPTH OF GROUT SEAL (TO NEAREST FOOT)			WHEN PUMPING 125 (NEAREST FOOT)		
			FROM 0 FT. TO 123 FT.			TYPE OF PUMP USED (CIRCLE APPROPRIATE BOX)		
			(ENTER 0 IF FROM SURFACE)			(A) AIR (P) PISTON (T) TURBINE		
			CASING RECORD			(C) CENTRIFUGAL (R) ROTARY (O) OTHER (DESCRIBE BELOW)		
			INSERT APPROPRIATE CODE BELOW			(J) JET (S) SUBMERSIBLE		
			MAIN CASING TYPE			PUMP INSTALLED		
			NOMINAL DIAMETER TOP (MAIN) CASING (NEAREST INCH)			TYPE OF PUMP (WRITE APPROPRIATE LETTER IN BOX - SEE ABOVE: A, C, J, P, R, S, T, O)		
			TOTAL DEPTH OF MAIN CASING (NEAREST FOOT)			DRILLER WILL INSTALL PUMP (CIRCLE APPROPRIATE BOX)		
			OTHER CASING (IF USED)			CAPACITY:		
			DIAMETER (INCH) DEPTH (FEET) FROM TO			GALLONS PER MINUTE (TO NEAREST GALLON)		
			SCREEN RECORD			PUMP HORSE POWER		
			INSERT APPROPRIATE CODE BELOW			PUMP COLUMN LENGTH (NEAREST FOOT)		
			STEEL BRASS OR BRONZE OPEN HOLE			CASING HEIGHT (CIRCLE APPROPRIATE BOX AND ENTER CASING HEIGHT)		
			PLASTIC OTHER			(+) ABOVE () BELOW		
			C 2			LOCATION OF WELL ON LOT		
			1 2 3 (SEQ. NO.) 6			SHOW PERMANENT STRUCTURE SUCH AS BUILDINGS, SEPTIC TANKS, AND/OR OTHER LAND MARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL).		
			DEPTH (NEAREST WHOLE FOOT)			PITTED ADAPTER		
			FROM TO					
			CIRCLE APPROPRIATE BOXES					
			(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 NAME					
			(PLEASE PRINT) GEORGE HARD SONS INC.					
			SIGNATURE					
			WRA USE ONLY (NOT TO BE FILLED IN BY DRILLER)					
			TELESCOPE CASING LOG INDICATOR					