

8/13/87
2PMV
8-14-87 10:30-11am

04 - 318854

PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

DISTRICT 4th

HOWARD COUNTY
BUREAU OF ENVIRONMENTAL HEALTH
461-9933

INDEXED

DATE 6/02/87

DATE SYSTEM APPROVED 8/14/87

INSPECTOR RH

South Carroll Backhoe, Inc. IS PERMITTED TO INSTALL ALTER

ADDRESS 4410 Salem Bottom Road, Westminster, Maryland PHONE 875-4197

SUBDIVISION Lisbon Sage ROAD 16224 Frederick Road LOT 15

PROPERTY OWNER Ira Sivado Swado

ADDRESS _____

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

Handwritten calculations:
3 1600
45 7200
45
270
270
240
3
720
180
160 ft trench

TRENCHES - 240 sq. ft per bedroom. Trench to be 2 feet wide. Inlet 5 feet below original grade. Bottom maximum depth 9½ feet below original grade. Effective area begins at 5 feet below original grade. 4 feet of stone below distribution pipe.

LOCATION - Beginning from right rear lot corner, place distribution box 250 feet down the right (588.09') lot line and 150 feet off the right line as seen when facing lot from Route 144. Run trenches in both directions towards the right (588.09') and left lot lines. NOTE: OK to extend trenches 30-40 feet outside perc area (going towards the right lot line only) to maximize overall perc area.

NOTE - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank.

PLANS APPROVED BY B. Nixon DATE 4/09/87

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(IES) ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH(IES).

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.

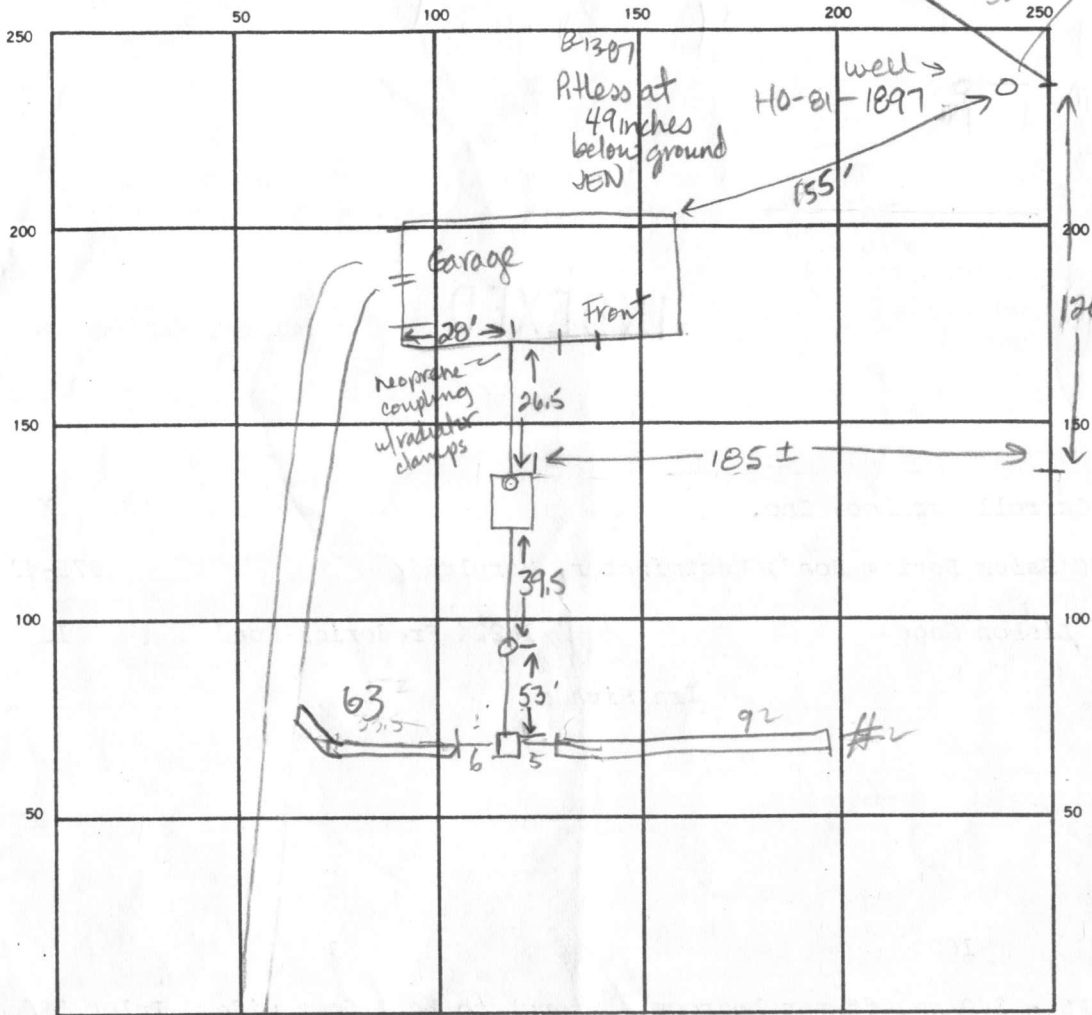
NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES.

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

*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEMS.

EH - 2-1186

A 24647



2 down
 46
 2.4
 18.4
 9.2
 110 to box
 11
 2.4
 2.4
 2.4
 26.4
 140
 45
 185

120
 15
 93
 228
 240
 185
 25

INDICATE NORTH. — NAME ADJOINING ROADWAY AS BASE LINE.

Route 144 - Frederick Road

SEPTIC TANK LEVEL 1000 CLEANOUTS OK ST 1 in line btwn tank & box

DISTRIBUTION BOX LEVEL _____

DRAIN FIELD/TILE FIELD DEPTH 9.5 / 10 FT. TRENCH WIDTH 2 FT. INLET DEPTH 5 / 4 FT.

EFFECTIVE GRAVEL DEPTH 7.5 FT. TOTAL LENGTH 63 / 92 FT.

NUMBER OF TRENCHES _____ ONE SIDEWALL/BOTTOM AREA 293 / 460 SQ. FT. 743 / 720

DRYWELL INSIDE DIAMETER _____ FT. EFFECTIVE DEPTH BELOW INLET _____ FT.

ABSORBENT AREA _____ SQ. FT.

81387
 REMARKS Trench ① excavate to 50' length. If no rock & good soil continue to 65' after HC inspects soil. Ok to cover line btwn tank & box to manuver. Add stone, pipe & paper to trench ①. Call for reinspection. Bring 4" Fernco coupling. JEN 8/14/87¹²¹⁵ - OK TO EXTEND TRENCH #1
 SOIL OK. FINISH ADDING STONE TO BOTH TRENCHES R/H
 8/14/87 TRENCHES BOTH COMPLETED

DATE SYSTEM APPROVED 8/14/87 INSPECTOR B. Hodges

APPLICATION

page 1 of 2

A 24647

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 4th

DATE 11/10/76

no plat

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~~ IRA SIVADO

ADDRESS Old Frederick Road PHONE Joel Abramson 730-7733

PROPERTY LOCATION: LISBON SAGE

SUBDIVISION Lower Trail LOT NO. 80 15

ROAD AND DESCRIPTION Old Frederick Road RT 144

16224 Frederick Rd.

SIZE OF LOT 1.161 Acres 5 acres m/l TYPE BLDG. 3 or 4
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 /s/ Joel Abramson

APPROVED BY Raymond Hodger FOR Dry Well DATE 4/7/80
(KIND OF SYSTEM)

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

HOLD PENDING FURTHER TESTS _____ DATE _____

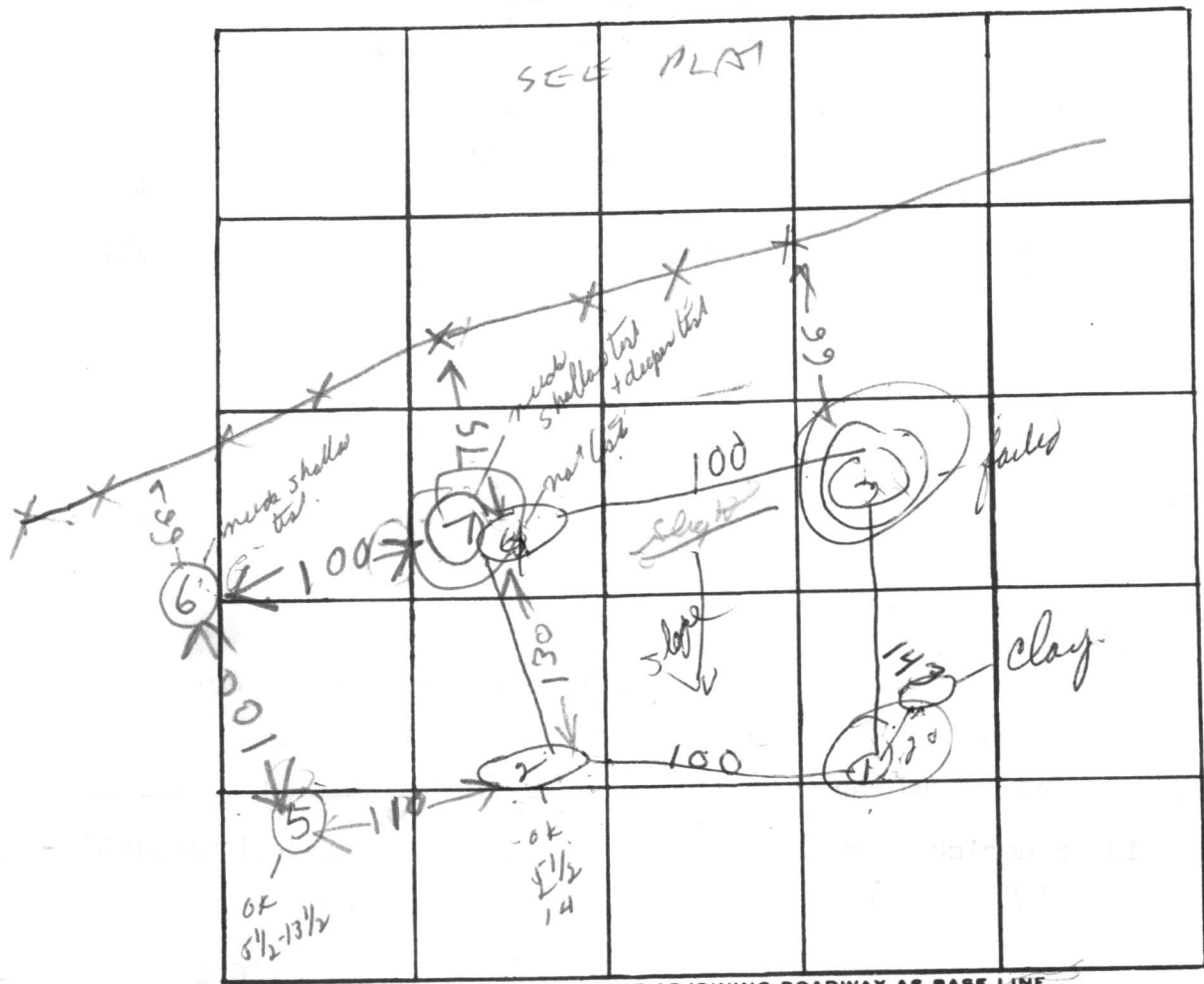
REASONS FOR REJECTION OR HOLDING 1/5/79 DIGMORE RA

4/9/80 FINAL PLAT OK R/H

BLDG. PERMIT SIGNED AND RETURNED 4-9-87
6P#11118

Shel

THIS IS NOT A PERMIT



INDICATE NORTH. - NAME ADJOINING ROADWAY AS BASE LINE

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
12/16	1D	12 1/2	2 07	2 13	2 13	2 30	20 min
	1S	6	2 07	2 11	2 11	2 20	9 min
	2S	5 1/2	2 14	2 18	2 18	2 25	7 min
	2D	14	2 14	2 25	2 25	2 45	20 min
	3S	5 1/2	2 34	overtime			
	3D	12 1/2	2 34	2 45	2 45	3 03	18 min
	4	12 1/2	needed test				
	3S	7 1/2	all clay no test				
1/5/79	5S	5 1/2	256	259	259	308	9
	5D	13 1/2	256	259	259	308	9

REMARKS need to test other area -

TYPE OF SOIL	6S	4	300	356	FAIL	
	6D	13	300	316	316	331 15
	7S	5 1/2	314	356	FAIL	
TESTED BY	7D	13 1/2	314	328	328	356 18

RH 1/5/79

APPLICATION

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SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

A 24647

P _____

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

DISTRICT 4TH

DATE 11/10/76

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 OLD FREDERICK RD PHONE _____

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. 15

ROAD AND DESCRIPTION _____

SIZE OF LOT SAC M/L TYPE BLDG. 3 OR 4

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 _____

APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

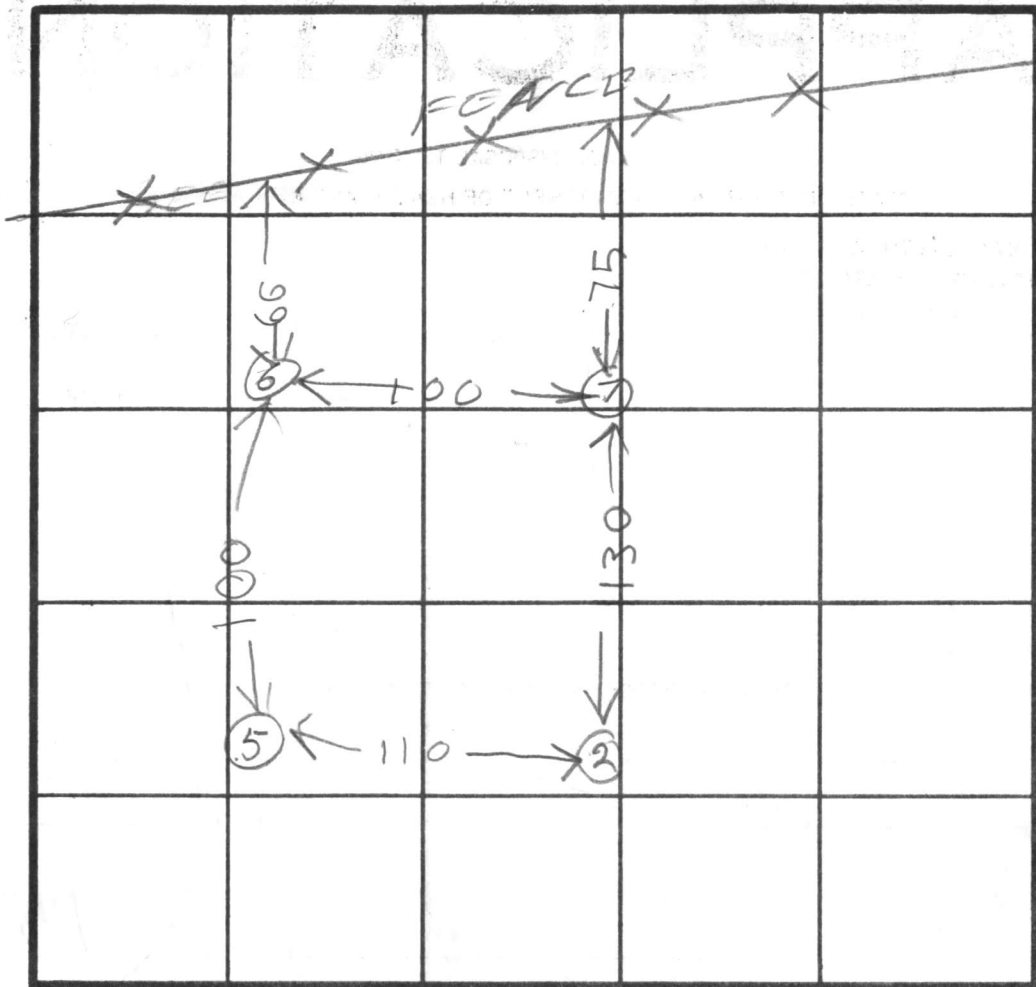
HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 8/8/79 Perc OK Hold for certified / Hold PH

THIS IS NOT A PERMIT

SOIL PROFILE

0



SEE
LARGE
PLAT
&
OTHER
PAGE
p/14

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

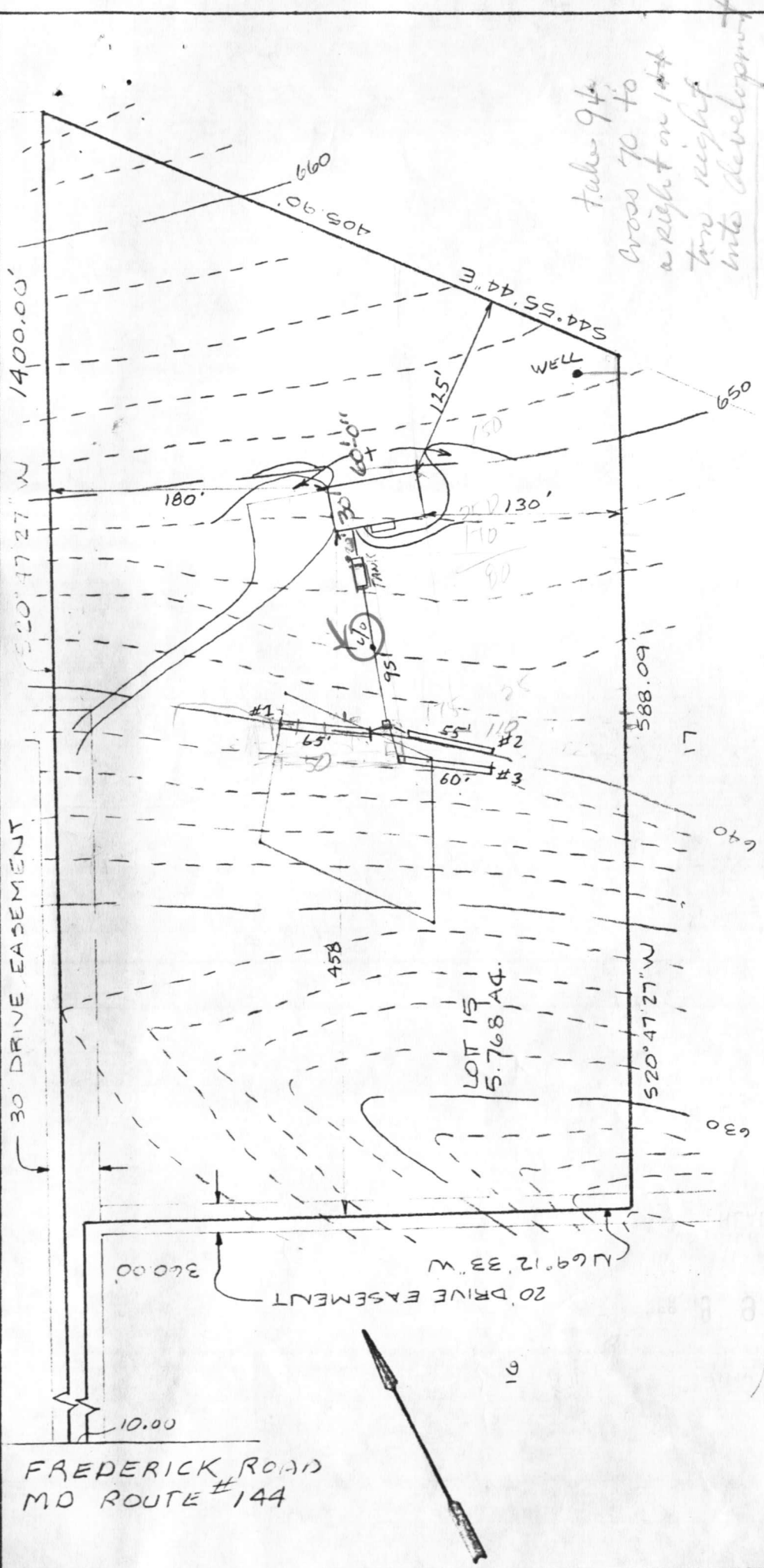
DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8/8/79	7M	8	1052	1102	1102	1114	12
8/8/79	6M	6	1055	1101	1101	1106	5

REMARKS _____

TYPE OF SOIL _____

TESTED BY BH 8/8/79

ALSO PRESENT KALLEN 8/8/79



Take 9th
cross 70 to
a right on 1st
turn right
into development

PLOT PLAN
 LOT ~~Parcel~~ 15
 LOWER TRAIL, LISBON SAGE
 Tax Map 7 Parcel 424
 4th Election District
 Howard County, Maryland
 Scale 1"=100' Date 3/26/87

BLDG. PERMIT SIGNED
 AND RETURNED 4-9-87
 BP 11118
 SKW

IRA SIVADO

HOUSE:	#1	#2	#3
Foyer	640.0	640.0	638.5
Lower Level	635.0	635.0	633.5
Invert	630.5	630.5	629.0
SEPTIC TANK:	4.0	4.0	4.0
Existing Grade	2.0	2.0	2.0
Proposed Grade	65.0'	55.0'	60.0'
Invert In			
Invert Out			
DISTRIBUTION:			
Existing Grade			
Invert In			
Invert Out			

trench sufficient for
3BK

elevations ok
S. Ann

FREDERICK ROAD
MD ROUTE #144

30 DRIVE EASEMENT

20' DRIVE EASEMENT

LOT 15
5.768 AC.

TRENCHES:
Existing
Invert
Bottom
Stone
Width
Length

652.5 ✓
648.5 ✓
645.5 ✓
646.5 ✓
646.5 ✓
645.0 ✓
644.75 ✓
640.5 ✓
635.3 ✓
635.2 ✓

360.00

10.00

405.90

1400.00'

520'47.27" W

180'

60'-0"

65'

458

520'47.27" W

588.09'

17

640

650

S44.55.44 E

125'

130

95

115

55'

110

60'

WELL

130'

90

16

17

N69°12'33" W

360.00

10.00

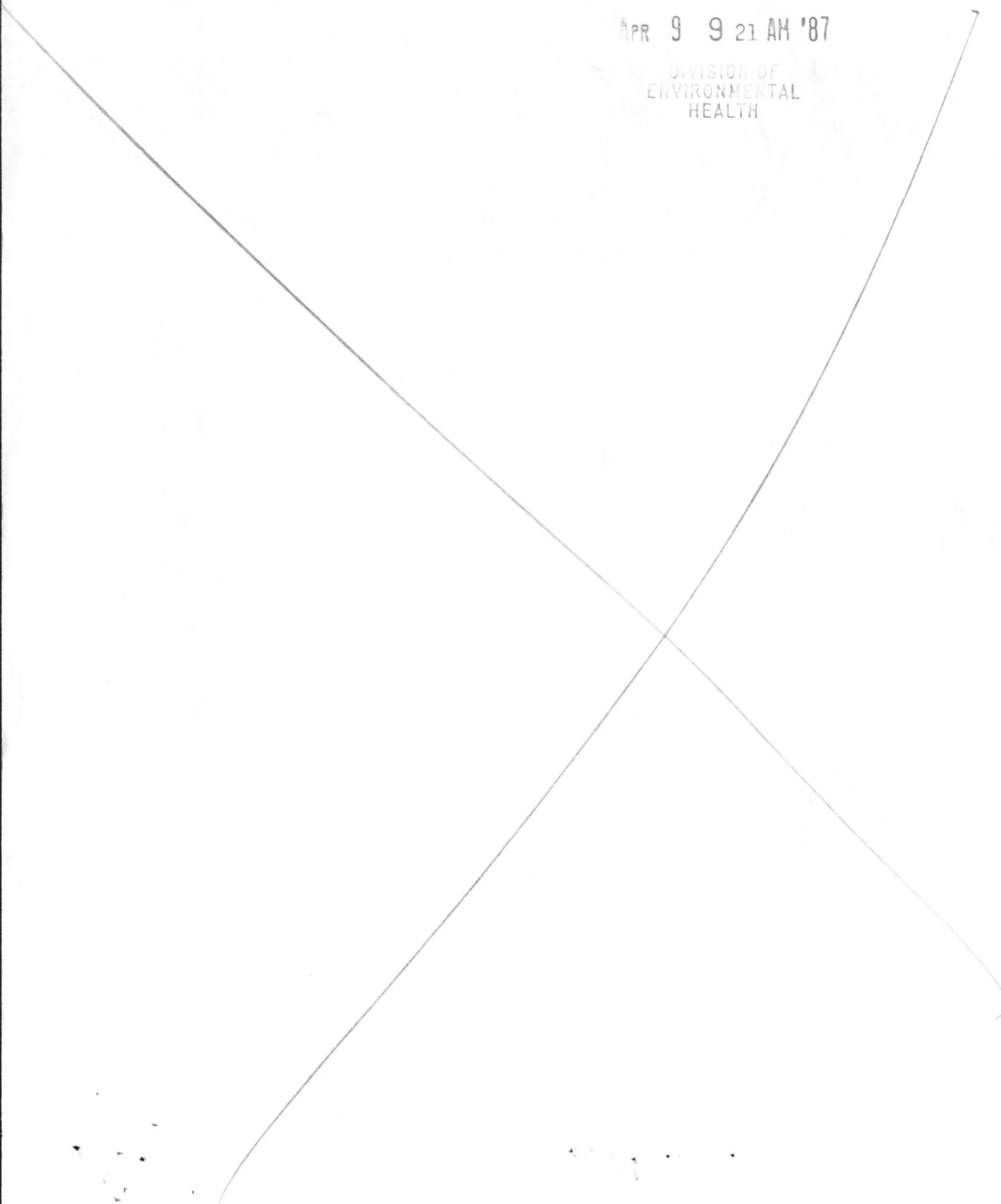
16

17

RECEIVED
HOWARD COUNTY
HEALTH DEPT.

APR 9 9 21 AM '87

DIVISION OF
ENVIRONMENTAL
HEALTH



C1 3842 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 24647

DATE Received [] [] [] [] [] [] DATE WELL COMPLETED 022687 Depth of Well 205 (TO NEAREST FOOT) PERMIT NO. 110-81-1897

OWNER SWAD last name TRR first name STREET OR RFD RTE 144 W. OF RTE 94 TOWN LISBON SUBDIVISION LISBON SAGE SECTION LOT 15

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	
Brown Shale	2	50	✓
Brown Slate	50	55	
Blue Slate	55	70	
Brown Slate	70	75	✓
Blue Slate	75	205	

GROUTING RECORD
 WELL HAS BEEN GROUTED (Circle Appropriate Box) YES NO
 TYPE OF GROUTING MATERIAL
 CEMENT BENTONITE CLAY
 NO. OF BAGS 102 NO. OF POUNDS 100
 GALLONS OF WATER 102
 DEPTH OF GROUT SEAL (to nearest foot)
 from 0 ft. to 50 ft.

CASING RECORD
 casing types insert appropriate code below
 ST CO STEEL CONCRETE
 PL OT PLASTIC OTHER
 MAIN CASING TYPE S+ Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 63

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

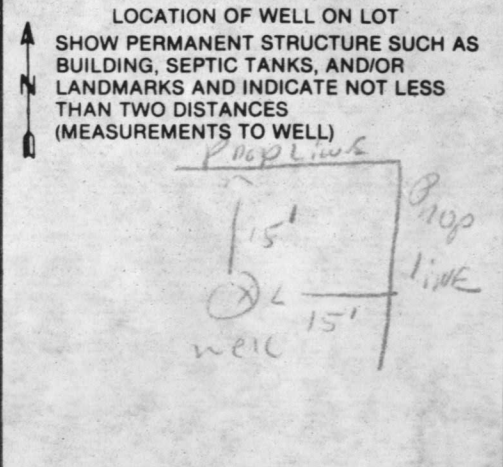
C2 DEPTH (nearest ft.)
 EACH SCREEN 1 40 62 205
 2
 3
 SLOT SIZE 1 2 3
 DIAMETER OF SCREEN [] (NEAREST INCH)
 from to

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
 70 [] 72 [] 74 [] 75 [] 76 []
 TELESCOPE CASING LOG INDICATOR OTHER DATA

C3 PUMPING TEST
 HOURS PUMPED (nearest hour) 3
 PUMPING RATE (gal. per min. to nearest gal.) 7
 METHOD USED TO MEASURE PUMPING RATE Bucket
 WATER LEVEL (distance from land surface) BEFORE PUMPING 40 WHEN PUMPING 25
 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: 29
 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 } LAND SURFACE (nearest foot) - below } 1



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. 273
 DRILLERS SIGNATURE [Signature]
 SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

RECEIVED
HOWARD COUNTY
HEALTH DEPT.

APR 10 2 45 PM '87

DIVISION OF
ENVIRONMENTAL
HEALTH

3845