

# PERMIT

## SEWAGE DISPOSAL SYSTEM

### DEPARTMENT OF HEALTH AND MENTAL HYGIENE

# INDEXED

04-355334

P 58904

A 36710

DISTRICT 4th

DATE 8/6/97

DATE SYSTEM APPROVED 4/1/97

INSPECTOR DCS

\* See page 2 \*

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
410-313-2640

Jeff Crane

IS PERMITTED TO INSTALL  ALTER

ADDRESS 1150 Underwood Rd, Sykesville 21784 PHONE 410-442-2247

SUBDIVISION Crane Property LOT 2 ROAD 14002 Old Frederick Road

PROPERTY OWNER T. Scott Crane & Diane M. Crane

ADDRESS

SEPTIC TANK CAPACITY 1000 GALLONS

NUMBER OF BEDROOMS 3

180 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 180

TRENCHES - Trench to be 3 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 5 feet below original grade. Effective area begins at 5 feet below original grade. 2 feet of stone below distribution pipe.

LOCATION - From the junction of the 310.50' and 124.81' lot lines, place the distribution box 25 feet down the 310.50' lot line and 20 feet off that same lot line.

NOTES - Run trenches along contour in both directions.  
- No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. OK 7/21/97 DCS

INSTALLER TO CONFIRM SEPTIC DESIGN, INSP PROCEDURES PRIOR TO START OF WORK. MR 8/6/97

PLANS APPROVED BY Glen Savage

DATE 07/29/97

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, 90° ELBOWS NOT ACCEPTABLE.

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

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 35/40 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 PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET. MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

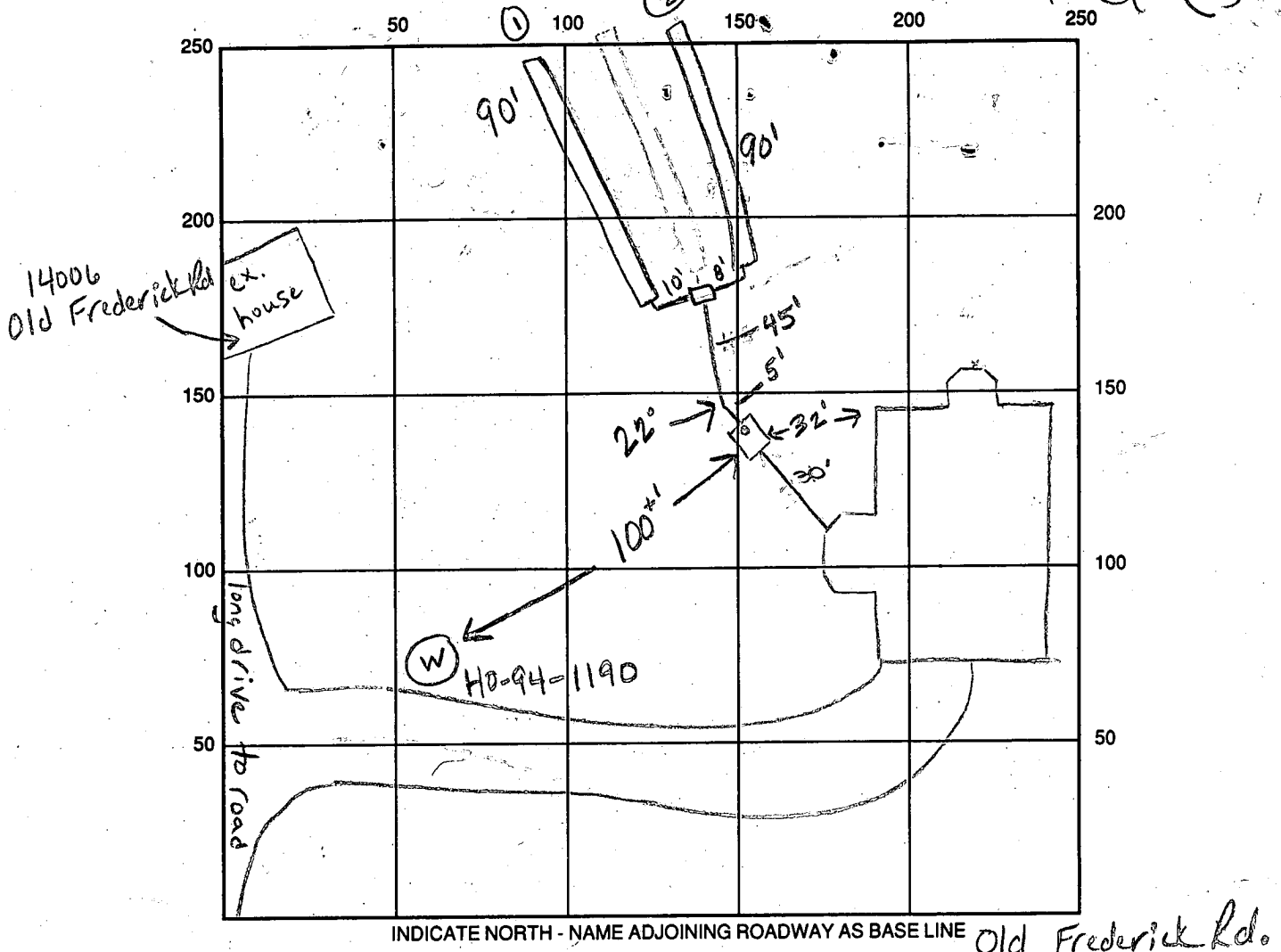
**\*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT**

HD-260(6-90)

\*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEM.

A 36710

8/23/97  
CO. - Final  
Ready anytime  
4/12/97  
10:00  
sign off card  
Taped to Front Door



SEPTIC TANK LEVEL OK CLEANOUTS 1 on tank

DISTRIBUTION BOX LEVEL OK, baffle in

DRAIN FIELD/TITLE DEPTH 5+10 FT. TRENCH WIDTH 4 FT. INLET DEPTH 3+8 FT.

EFFECTIVE GRAVEL DEPTH 2 FT. TOTAL LENGTH 90x2 FT. → 180

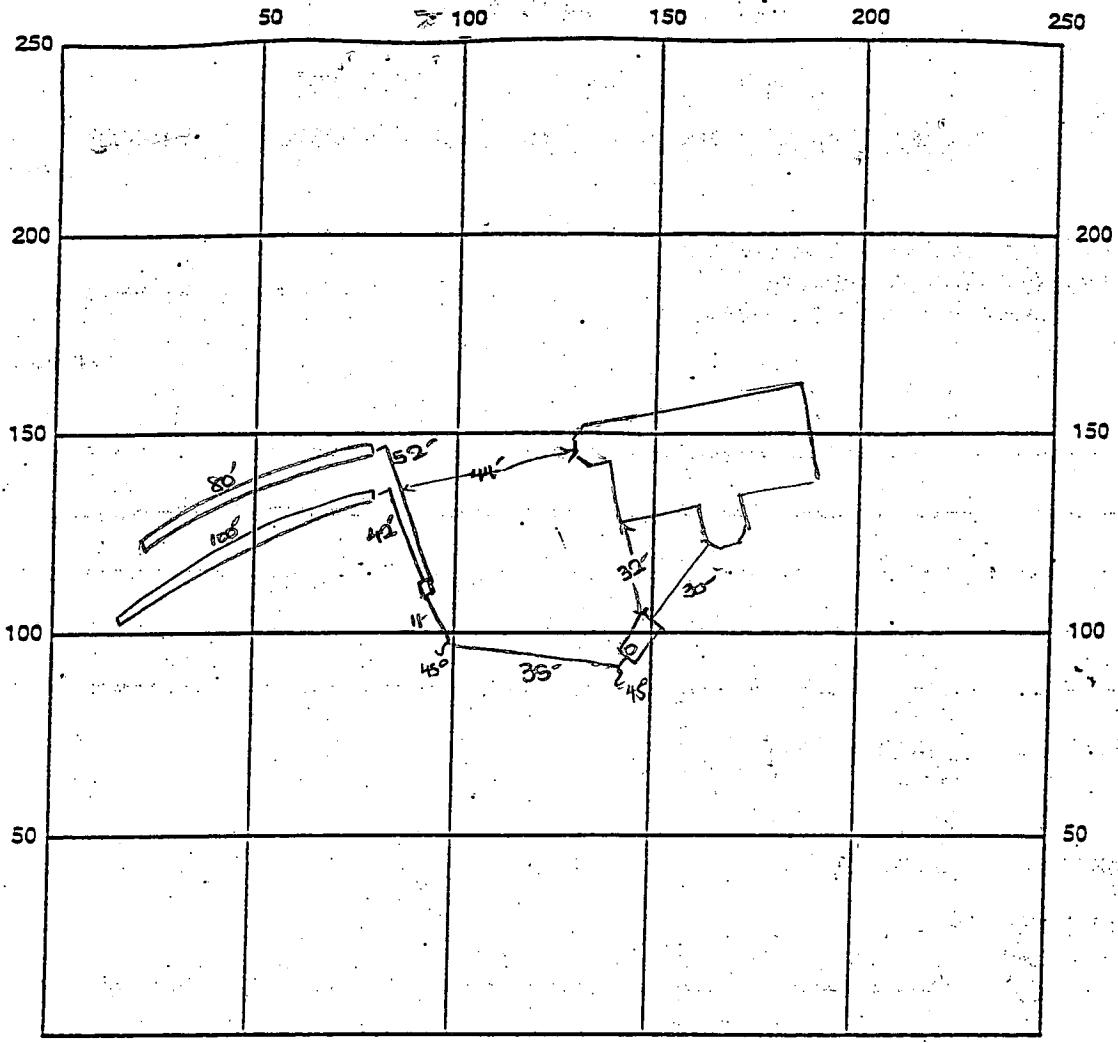
NUMBER OF TRENCHES 2 ONE SIDEWALL/BOTTOM AREA \_\_\_\_\_ SQ. FT.

DRYWALL INSIDE DIAMETER \_\_\_\_\_ FT. EFFECTIVE DEPTH BELOW INLET \_\_\_\_\_ FT.

ABSORBENT AREA \_\_\_\_\_ SQ. FT.

REMARKS: 8.27.98 cleanout on septic tank at rear of tank and bent, need to see house connection, tank needs manhole cleanout (5.5' below grade) Trench #1 inlet at 8.0' gradually makes down to an inlet at 3' at 62' of trench (possibly due to tank being set too low), well cap cracked (KRM)

DATE SYSTEM APPROVED \_\_\_\_\_ INSPECTOR \_\_\_\_\_



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL OK CLEANOUTS one on st.  
 DISTRIBUTION BOX LEVEL OK  
 DRAIN FIELD/TITLE DEPTH 5 FT. TRENCH WIDTH 3 FT. INLET DEPTH 3 FT.  
 EFFECTIVE GRAVEL DEPTH 2 FT. TOTAL LENGTH 100 FT. 80 FT.  $\rightarrow$  180  
 NUMBER OF TRENCHES 2 ONE SIDEWALL BOTTOM AREA 540 SQ. FT.  
 DRYWALL INSIDE DIAMETER — FT. EFFECTIVE DEPTH BELOW INLET — FT.  
 ABSORBENT AREA — SQ. FT.

REMARKS: 5/28/99 met mr. Hatfield @ site - he suggested that  
the gravel, pipe etc. be removed from the trenches - the  
trenches filled w/clean fill and tamped - ok to proceed and  
this area shall be used for replacement area. DKS  
6/1/99 FINAL INSP - ok to cover all work. Initial system  
properly removed. DKS

DATE SYSTEM APPROVED 6/1/99 INSPECTOR [Signature]



---

## HOWARD COUNTY HEALTH DEPARTMENT

---

*Mary Sue Baker, MBA, Acting County Health Officer*

April 21, 1999

Mr. and Mrs. T. Scott Crane  
14220 Triadelphia Mill Road  
Dayton, Maryland 21036

RE: Septic System Installation  
Crane Property, Lot #2  
14002 Old Frederick Road

Dear Mr. and Mrs. Crane:

At your request, I conducted a site inspection with you present, at the above referenced property on April 12, 1999. This meeting was scheduled to initiate resolution of the issues associated with disapproval of the new septic system installation.

The inspection confirmed that the septic system is not approvable as installed. As we discussed at the site, trenches must be installed along the natural contour of the ground, in the highest portion of the approved septic reserve area. The existing trenches are clearly installed down the hill, i.e., against the natural contour of the ground.

Additionally, the septic system installation permit dictates that the maximum bottom depth of the trenches shall be five (5) feet below original grade, according to percolation test results. At the high end of the upper trench, the bottom of the trench is at least nine (9) feet below original grade. The trench depth standard originates from the requirement that trenches shall be installed in that portion of the soil profile suitable to properly filter sewage.

In order to attempt to establish replacement septic reserve area for that portion of the area rendered unusable by the incorrect system installation, it shall be necessary for the Health Department to conduct additional percolation testing. It shall also be necessary for you to submit to this office a percolation repair fee (\$25.00) rather than the standard test fee (\$225.00). You shall be responsible for having a contractor at the site to excavate the necessary test holes to a depth of approximately 14 feet or as requested.

Please contact me at the address below or by calling (410) 313-2640 to schedule the necessary testing and if you have any questions. Thank you in advance for your prompt attention to this important matter.

Sincerely,

Donna K. Soe, R.S.  
Water and Sewerage Program

cc: file

To: File

14002 Old Frederick Road

met @ site w/ Diane Crane. I explained to her the problems with the septic system as installed. I explained that the system could not be approved and that replacement of the system as well as additional perc testing would be necessary. She agreed to contact a contractor to resolve the problems and she'd get back to me.

5/19/99 10:40 a.m.

met Kenny Hatfield @ site. Mr. Hatfield proposed removal of all materials in both trenches and tamping the ext'd area, then replacing the trenches along contour. Also, he agreed to perc holes if necessary.

5/20/99 10:20 a.m. left message for Mr. Hatfield.

5/25/99 12:00 spoke to Mr. Hatfield - he should start work ~ 5/28/99.

SITE INSPECTION SHEET

OWNER: Diane Crane

DATE REQUESTED: 4/12/99

ADDRESS: 14002 Old Frederick Rd  
Sykesville, MD 21784

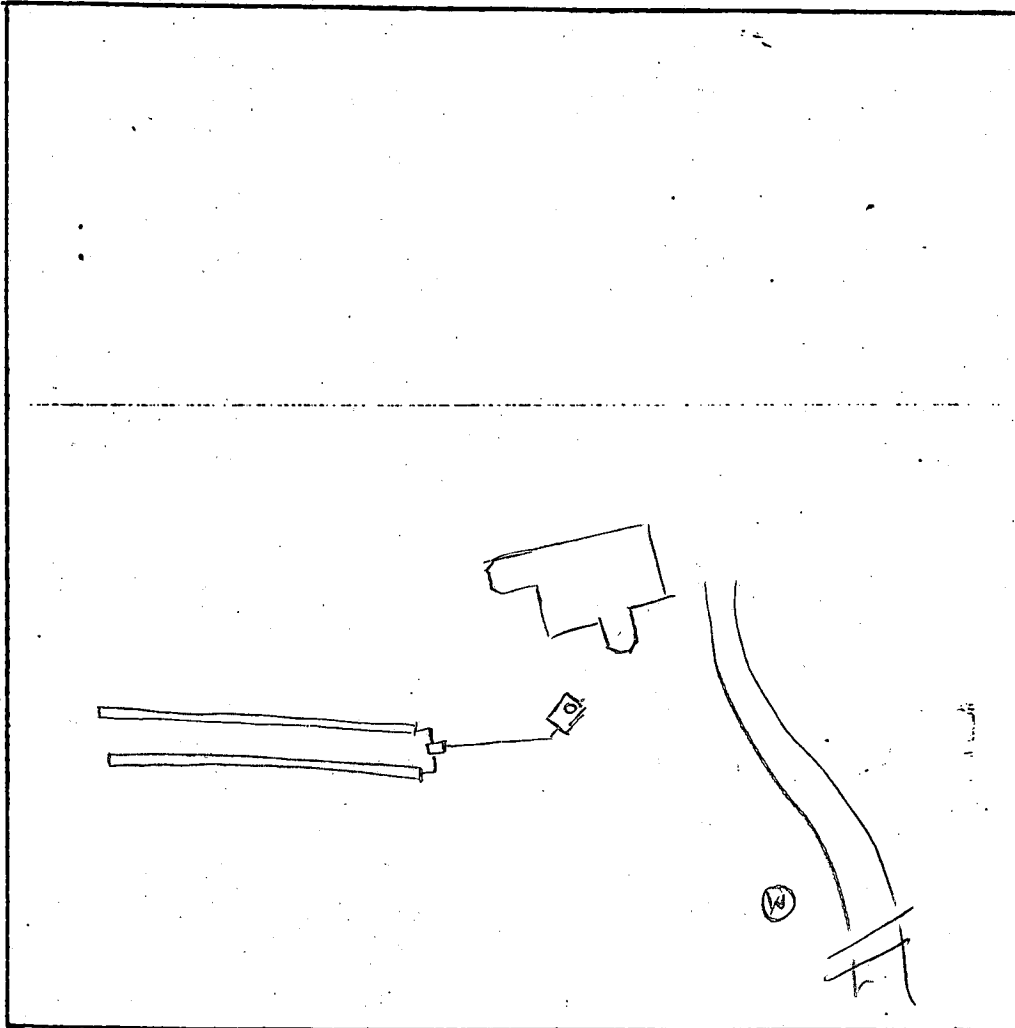
DRILLER: \_\_\_\_\_

WELL TAG # \_\_\_\_\_

COUNTY # A30710

PROPOSAL: \_\_\_\_\_

LOCATION DIAGRAM

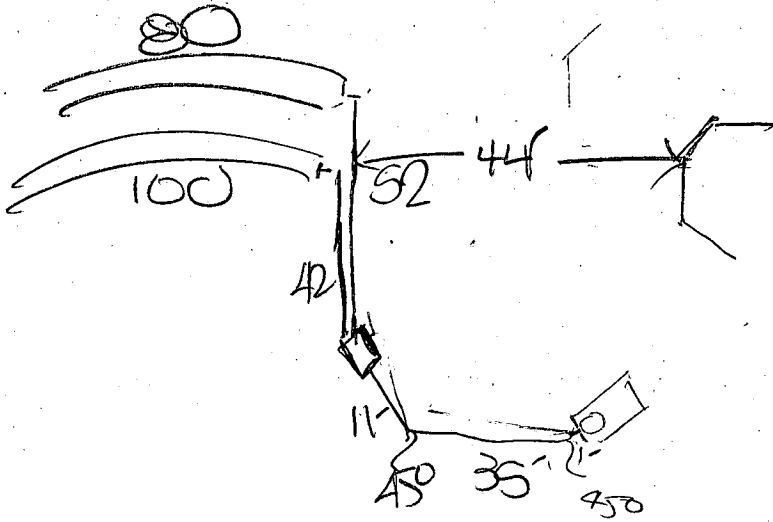


COMMENTS: met w/owner at site to assess septic system installation  
-upper trench is 9' at deepest, running downhill to 5' depth  
-lower trench

DATE: \_\_\_\_\_

INSPECTOR: \_\_\_\_\_

3/5



4/10/86  
1:30

# APPLICATION

PERCOLATION TESTING

4/10/86  
Approval  
pending certified  
plat (in)

A 316710

P \_\_\_\_\_

DISTRICT 4

DATE 3/25/86

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
P.O. BOX 476 ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 461-9933

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 BRUCE CRANE T. Scott + DIANE CRANE

ADDRESS 1150 UNDERWOOD RD PHONE 442-2247

PROSPECTIVE BUYER BRUCE CRANE

ADDRESS 1150 UNDERWOOD RD PHONE 442-2247

PROPERTY LOCATION:

SUBDIVISION NONE CHAS GERBER PROP LOT NO. 2nd

ROAD AND DESCRIPTION 14002 OLD FREDERICK RD

TAX MAP 9 PARCEL # 295

SIZE OF LOT 13.465 TYPE BLDG. SINGLE FAMILY DWELLING  
(SINGLE FAMILY DWELLING OR COMMERCIAL)

BLDG PERMIT SIGNATURE  
AND RETURNED 7-29-97  
Serial # 2410 7899  
3 Bm

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. Bruce Crane  
(SIGNATURE OF APPLICANT)

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

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

HOLD PENDING FURTHER TESTS 4/10/86 DATE \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING NEED FIELD LOCATED HOLES; NEED CERTIFIED PLAT (NEED LOT LINES ESTABLISHED) SHALLOW SYSTEM ONLY

3/14/88 PERC AREA MUST BE PULLED UP HILL MINIMUM 30" HIGHER THAN LOW HOLES TESTED DUE TO WATER TABLE. SAME

# THIS IS NOT A PERMIT

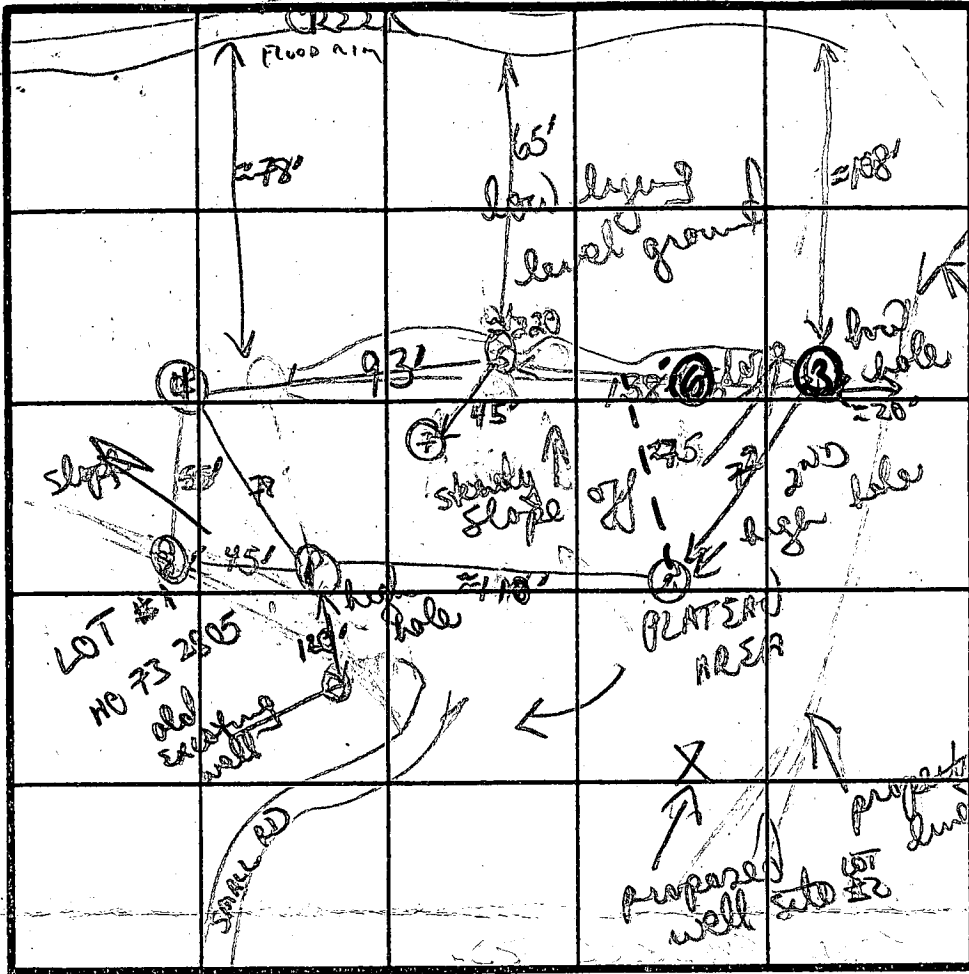


Ⓟ

SOIL PROFILE

Red/brown clay loam gradually changing to tan brown sandy loam uniform to bottom

② 10' D



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

OLD FRESH RD

Red/brown sandy/clay  
tan/brown fine/med grain sandy loam  
patches of hard rock

10'

⑤

Red/brown clay loam  
sandy brown loam w/ rock patches  
4.0 at 10'  
6 ft down

red/brown sandy clay loam  
tan brown med/coarse grain sandy loam

10 1/2' D

③

Red brown clay/clay loam  
change to brown/tan sandy clay loam

10'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1' DROP		TIME	
			START	STOP	START	STOP		
4/10/86	①	4 1/2' S	247	253	253	304	7 MIN	
		10' D	bottom (see profile)					
	②	4' S	255	259	259	307	8 MIN	
		10 1/2' D	bottom (see profile)					
	③	4 1/2' S	310	340	NOT 15" INCH quite		(fail)	
		10' D	bottom (see profile)					
	④	4' S	317	320	320	324	4 MIN	
		10' D	bottom (see profile)					
	⑤	3 1/2' S	350	353	353	357	4 MIN	
	⑥	visual	visual (hard rock) no good					

(see other page for #7 & #8)

NO DEFINITE LOT LINES YET ESTABLISHED

REMARKS: NOTE (hole #3 may be 25% slope) (SHALLOW) SYSTEM upper holes all good; clay layers to #3' sandy loams DUE TO ROCK DEPTH

TESTED BY: B. Nylon ALSO PRESENT: owner/brother

# APPLICATION

PERCOLATION TESTING

A 316710

P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
P.O. BOX 476 ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 461-9933

DISTRICT 4

DATE 3/25/86

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 BRUCE CRANE

ADDRESS 1150 UNDERWOOD RD. PHONE 442-2247

PROSPECTIVE BUYER BRUCE CRANE

ADDRESS 1150 UNDERWOOD RD. PHONE 442-2247

PROPERTY LOCATION:  
SUBDIVISION \_\_\_\_\_ LOT NO. \_\_\_\_\_

ROAD AND DESCRIPTION 14006 OLD FREDRICK RD.

TAX MAP 9 PARCEL # 295

SIZE OF LOT 13.465 TYPE BLDG. SINGLE FAMILY DWELLING  
(SINGLE FAMILY DWELLING OR COMMERCIAL)

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.

Bruce Crane  
(SIGNATURE OF APPLICANT)

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

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

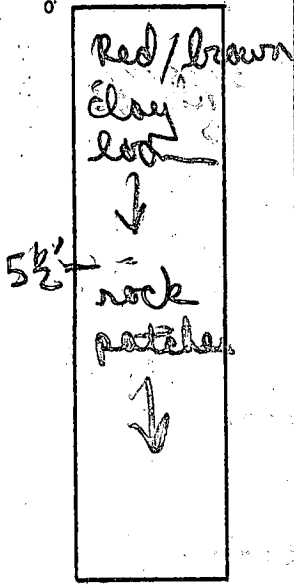
HOLD PENDING FURTHER TESTS \_\_\_\_\_ DATE \_\_\_\_\_

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

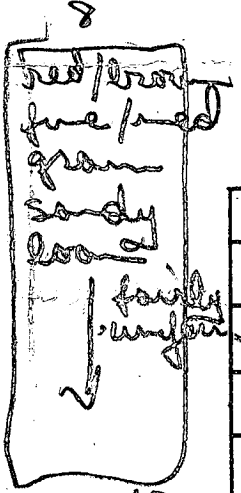
# THIS IS NOT A PERMIT

7

SOIL PROFILE




INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.



12'D

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	

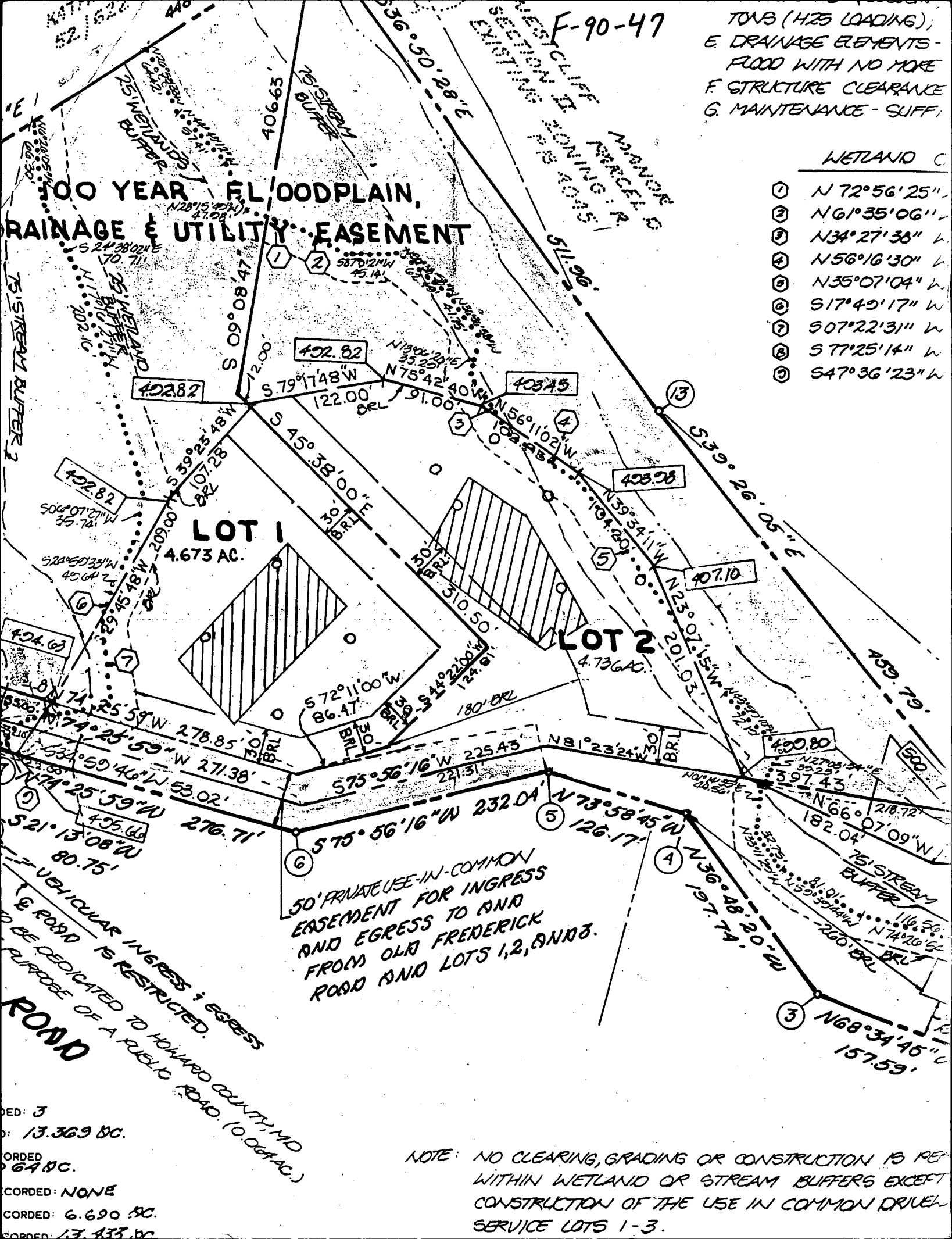
DUE TO ROCK IN LOWER AREA MAKE \* 187# / BD.

X = 6mm

REMARKS probably > 10,000 perc field to help compensate for rock problems in some of lower holes.

TYPE OF SOIL will keep system higher up initially

TESTED BY \_\_\_\_\_ ALSO PRESENT \_\_\_\_\_



F-90-47

- TONS (425 LOADING);
- E. DRAINAGE ELEMENTS - FLOOD WITH NO MORE
- F. STRUCTURE CLEARANCE
- G. MAINTENANCE - SUFF.

WETLAND

- ① N 72°56'25" W
- ② N 61°35'06" W
- ③ N 34°27'38" W
- ④ N 56°16'30" W
- ⑤ N 35°07'04" W
- ⑥ S 17°42'17" W
- ⑦ S 07°22'31" W
- ⑧ S 77°25'14" W
- ⑨ S 47°36'23" W

100 YEAR FLOODPLAIN, DRAINAGE & UTILITY EASEMENT

LOT 1  
4.673 AC.

LOT 2  
4.736 AC.

50' PRIVATE USE-IN-COMMON EASEMENT FOR INGRESS AND EGRESS TO AND FROM OLD FREDERICK ROAD AND LOTS 1, 2, AND 3.

VEHICULAR INGRESS & EGRESS TO BE RESTRICTED TO PURPOSE OF A PUBLIC ROAD.

NOTE: NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN WETLAND OR STREAM BUFFERS EXCEPT CONSTRUCTION OF THE USE IN COMMON DRIVEN SERVICE LOTS 1-3.

RECORDED: 13,369 AC.  
RECORDED: 6.690 AC.  
RECORDED: 13,433 AC.

C1 6085 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

COUNTY NUMBER A 36710

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

ST/CO USE ONLY DATE RECEIVED 6/19/97

DATE WELL COMPLETED 06 16 97

DEPTH OF WELL 125 (TO NEAREST FOOT) PERMIT NO. MD-94-1190

OWNER Parcel Scott STREET OR RFD Old Frederick Road TOWN Cooksville SUBDIVISION SECTION LOT 2

WELL LOG Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Rows: Brown Shale (0-26), Blue Rock (26-125)

GROUTING RECORD

WELL HAS BEEN GROUTED (Y) (N) TYPE OF GROUTING MATERIAL (C)M BENTONITE CLAY (B)C NO. OF BAGS 9 NO. OF POUNDS 876

CASING RECORD

MAIN CASING TYPE (S)T Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 29

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

SCREEN RECORD screen type or open hole (S)T (B)R (H)O (P)L (O)T

NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED (Y) (N)

CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION"

DRILLERS LIC. NO. M 5 D 0 2 4 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

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

Table with columns: DEPTH (nearest ft.) 1-25, 26-30, 31-35, 36-40, 41-45, 46-50, 51-55, 56-60, 61-65, 66-70

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q TELESCOPE CASING LOG INDICATOR OTHER DATA

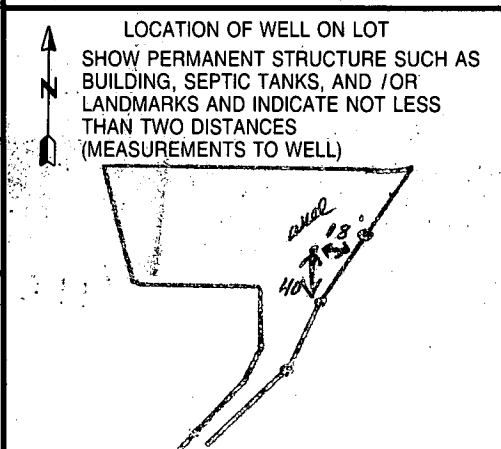
PUMPING TEST

HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 20 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 44 WHEN PUMPING 44

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 (CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 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 ( ) below LAND SURFACE (nearest foot) 49 50 51

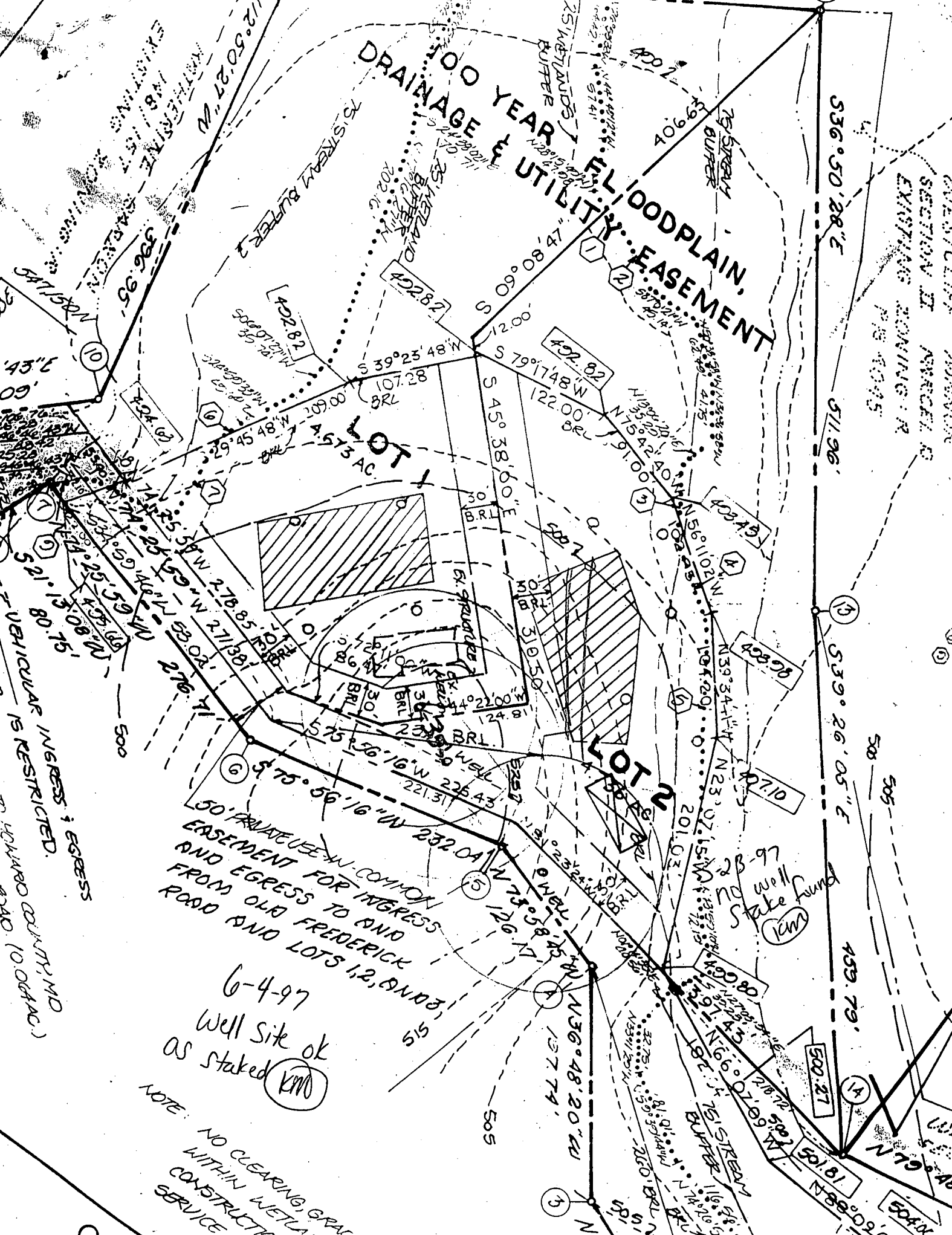




B 1	<b>9420</b>	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND <b>PERMIT TO DRILL WELL</b> please print or type	STATE PERMIT-NUMBER <b>HO-94-1190</b> <small>fill in this form completely</small>												
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)																
Date Received (APA) <b>5/15/97</b>		B 3 LOCATION OF WELL														
OWNER INFORMATION		8 COUNTY <u>Howard</u> 21														
15 Last Name <u>Crane</u> Owner <u>T. Scott</u> First Name 34		23 SUBDIVISION _____ 42														
36 Street or RFD <u>14220 Philadelphia Mill Rd.</u> 55		SECTION _____ LOT <u>2</u> _____														
57 Town <u>Dayton</u> State <u>md.</u> Zip <u>21036</u> 76		52 NEAREST TOWN <u>Cooksville</u> 71														
DRILLER INFORMATION		MILES FROM TOWN (enter 0 if in town) <u>2</u> M I 73 76 77 78														
76 Driller's Name <u>Joseph L. Wayne</u> License No. 81 <u>M S D 024</u>		B 4														
76 First Name <u>Joseph L. Wayne - Well Drilling</u>		1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)														
76 Address <u>5512 Ridge Rd. Mt. Airy, Md. 21771</u>		11 NEAR WHAT ROAD <u>Old Fredericks Road</u> 30														
76 Signature <u>Joseph L. Wayne</u> Date <u>5/15/97</u>		ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)														
		<table style="width:100%; text-align: center; font-size: 8px;"> <tr><td>NORTH</td><td>W</td><td>3</td><td>E</td></tr> <tr><td>WEST</td><td>S</td><td>2</td><td>EAST</td></tr> <tr><td>SOUTH</td><td></td><td></td><td></td></tr> </table>			NORTH	W	3	E	WEST	S	2	EAST	SOUTH			
NORTH	W	3	E													
WEST	S	2	EAST													
SOUTH																
WELL INFORMATION		34 <u>600</u> 37 DISTANCE FROM ROAD <u>FT</u>														
1 2 APPROX. PUMPING RATE <u>5</u> (GAL. PER MIN.) 8 12		ENTER FT OR MI 38 39														
AVERAGE DAILY QUANTITY NEEDED <u>500</u> (GAL. PER DAY) 14 20		TAX MAP: _____ BLK: _____ PARCEL _____														
USE FOR WATER (CIRCLE APPROPRIATE BOX)		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL														
<input checked="" type="checkbox"/> HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)		COUNTY NAME <u>Howard</u> COUNTY NO. <u>A36710</u>														
<input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)		STATE SIGNATURE _____ INSERT S → _____														
22 <input type="checkbox"/> INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)		DATE ISSUED <u>6-5-97</u> <u>Kimberly Maisto</u> <u>6-5-98</u> 41														
<input type="checkbox"/> PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE APPROVAL)		50 NORTH GRID <u>547 000</u> 55 EAST GRID <u>801 000</u> 63														
<input type="checkbox"/> TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)		SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X → <u>Grout 6-16-97 9:30</u>														
		SOURCES OF DRILLING WATER														
		1. <u>well</u>														
		2. _____														
		3. _____														
METHOD OF DRILLING (circle one)		WRITE THE BOX NUMBER FROM THE MAP HERE														
30 BORED (or Augered) _____ JETTED _____ Jetted & DRIVEN _____		E <u>801</u>														
37 AIR-ROTARY _____ AIR-PERCussion _____ ROTARY (Hydraulic Rotary) _____		N <u>547</u>														
CABLE _____ REVerse-ROTary _____ DRIVE-POINT _____		DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION														
other _____																
REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)																
<input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL																
<input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED																
39 <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS																
<input type="checkbox"/> THIS WELL WILL DEEPEMED AN EXISTING WELL																
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 _____ 52																
Not to be filled in by driller (MDE OR COUNTY USE ONLY)																
APPROP. PERMIT NUMBER _____ G A P _____ 54 63																
FORCE <u>KM</u> WRITE INITIALS IN BOX PERMIT No. <u>HO-94-1190</u> 70 71 72 73 74 75 76 77 78 79																
SPECIAL CONDITIONS																
NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED -																

EXISTING CONING R  
P18 6045

100 YEAR FLOODPLAIN  
UTILITY EASEMENT



VEHICULAR INGRESS & EGRESS IS RESTRICTED.  
TO HOWARD COUNTY, MD  
ROAD 100ft AC

50' PRIVATE USE COMMON  
EASEMENT FOR INGRESS  
AND EGRESS TO AND  
FROM OLD FREDERICK  
ROAD AND LOTS 1, 2, AND 3

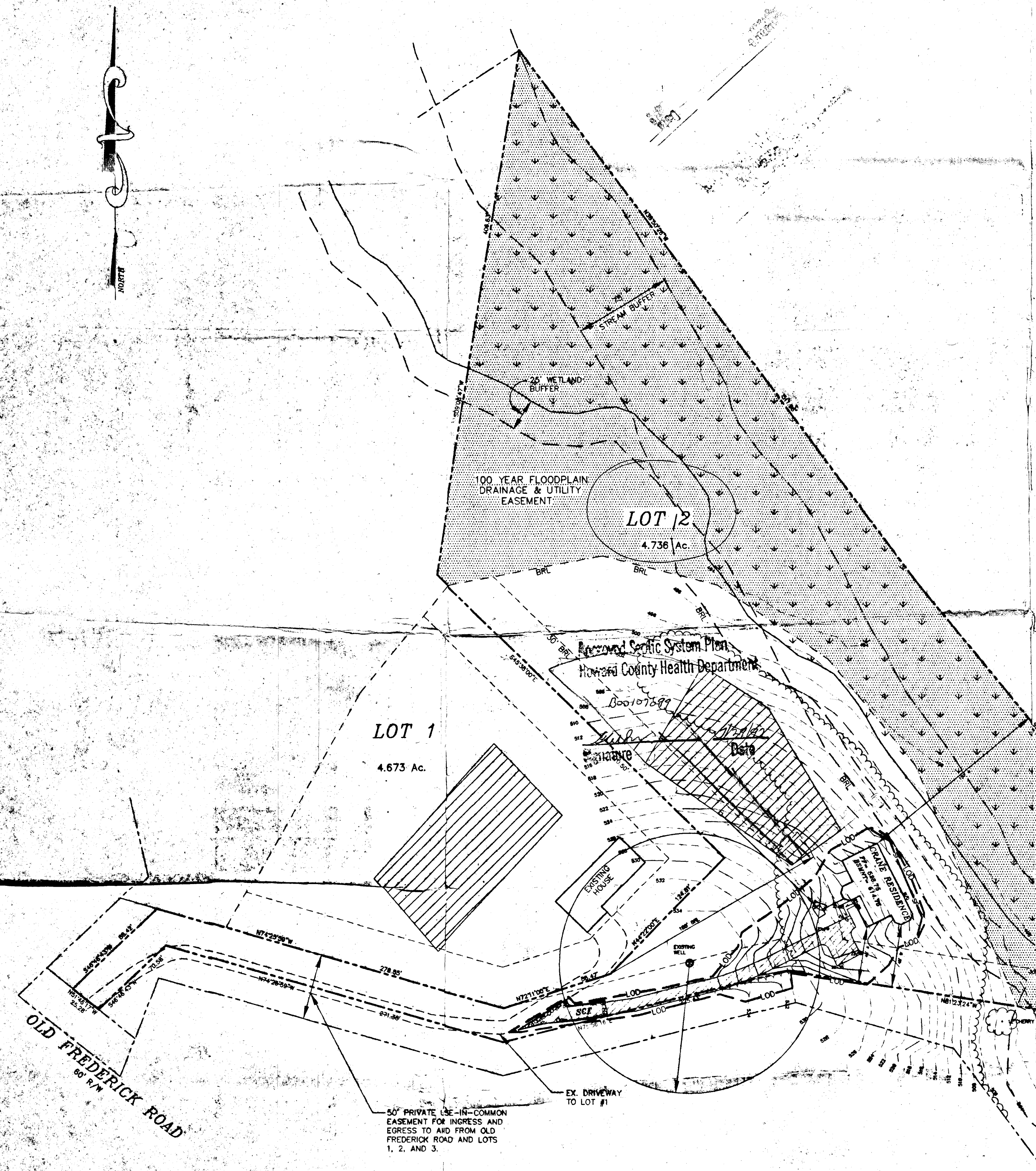
6-4-97  
Well Site ok  
as Staked **KMO**

NOTE: NO CLEARING, GRAD,  
WITHIN WETLAND  
CONSTRUCTED  
SERVICE

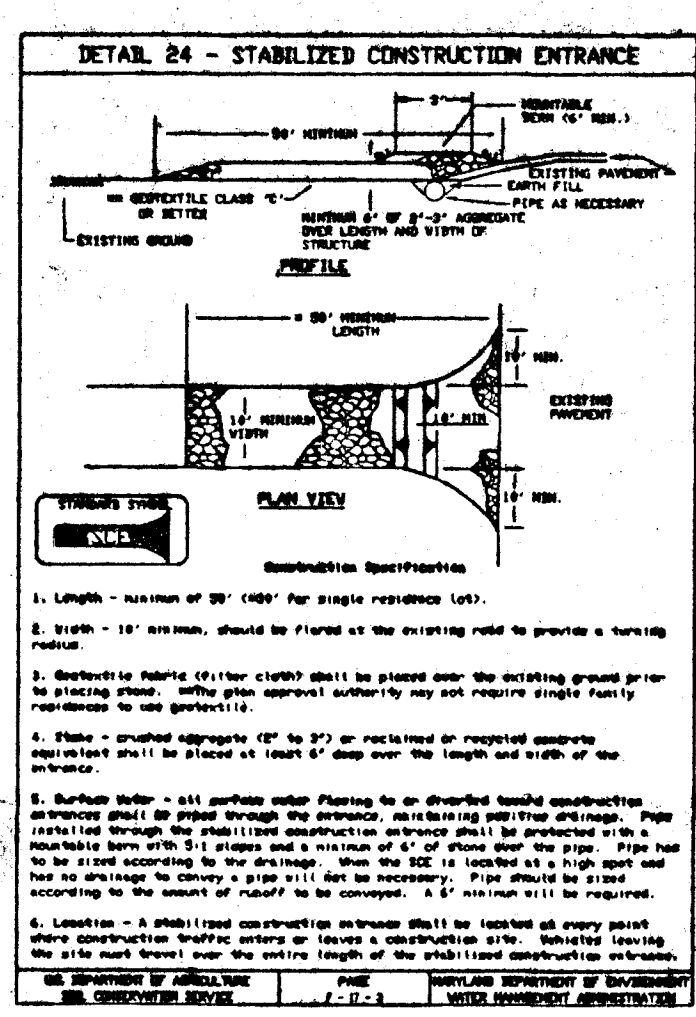
well  
State fund  
**KMO**

01





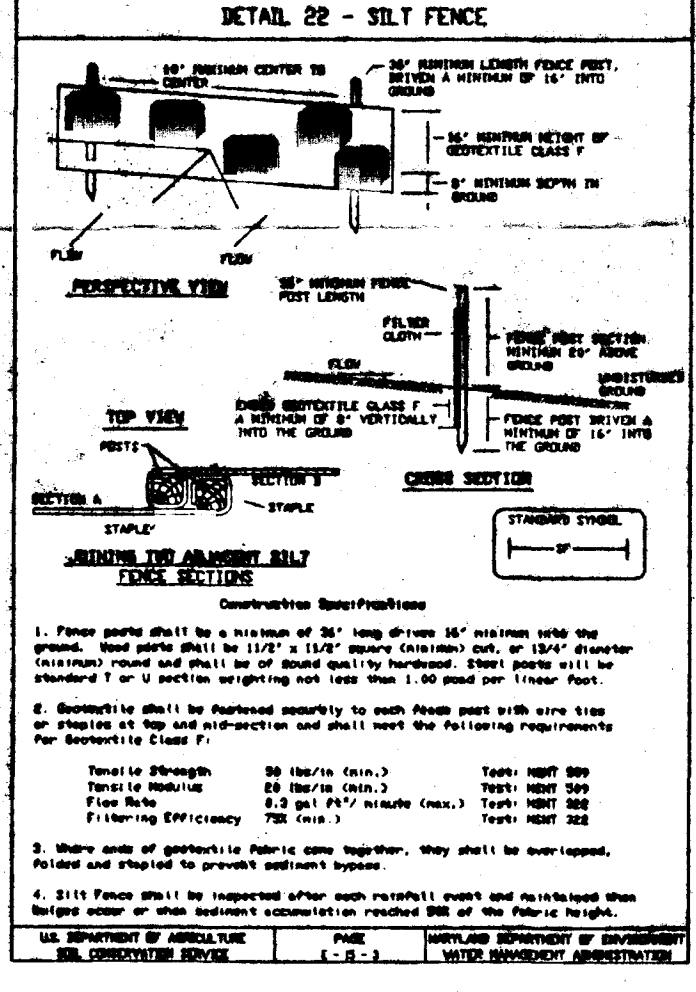
**THIS PLOT PLAN IS EXEMPT FROM GRADING PERMIT REQUIREMENTS**



**STABILIZED CONSTRUCTION ENTRANCE**

Construction Specifications

- Length - minimum of 20' (20' for single residence lots).
- Width - 12' minimum, should be flared at the existing road to provide a turning radius.
- Structure - concrete (12" to 18" thick) shall be placed over the existing ground prior to placing stone. Slope shall be approved by the local authority. Slope shall be 1:1 minimum. Slope shall be 1:1 minimum. Slope shall be 1:1 minimum.
- Flow - channel capacity of 10 cfs, or reduced or restricted capacity. Structure shall be placed at least 5' away from the length and width of the entrance.
- Surface - all surface under flowing to an approved storm water management structure shall be placed through the entrance. Existing concrete structure shall be placed through the entrance. Existing concrete structure shall be placed through the entrance.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Stabilized entrances shall be placed at every point where a construction site is located.



**SILT FENCE**

21 1/2 Foot High System

Stage Thickness	Channel Stage Length	Channel Stage Length
Factor 1 to 1.4	100 Feet	100 Feet
1.4 to 1.6	120 Feet	120 Feet
1.6 to 1.8	140 Feet	140 Feet
1.8 to 2.0	160 Feet	160 Feet
2.0 and greater	180 Feet	180 Feet

Notes: In cases of less than 20' stage and more than 100' stage, construction entrance shall be placed at every point where a construction site is located.

**HOWARD SOIL CONSERVATION DISTRICT**

**PERMANENT SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO BARRIERS FURTHER DISTURBANCE WHERE A PERMANENT LIVABLE VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION - LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, BROWNE OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOCATED.

SOIL AMENDMENTS - IN LBS. OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING RECOMMENDATIONS:

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (82 LBS./1000 SQ.FT.) AND 800 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.) BEFORE SEEDING.
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (82 LBS./1000 SQ.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.) BEFORE SEEDING.

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30 AND AUGUST 1 THRU OCTOBER 15, SEED WITH 40 LBS. PER ACRE 1.4 LBS./1000 SQ.FT. OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 40 LBS. PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.). FOR THE PERIOD NOVEMBER 15 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (1) - 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE SOIL OPTION (2) - SEED WITH 80 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELLS ANCHORED STRAW.

MALDRING - APPLY 1-1/2 TO 2 TONS PER ACRE (30 TO 40 LBS./1000 SQ.FT.) OF UNGRADED SMALL BROWN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL. USE 210 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR GREATER, USE 140 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

**TEMPORARY SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION - LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, BROWNE OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOCATED.

SOIL AMENDMENTS - APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.) BEFORE SEEDING.

SEEDING - FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 20 LBS. PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.). FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 3 LBS. PER ACRE OF WELLS ANCHORED STRAW MULCH. FOR THE PERIOD NOVEMBER 15 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING OR USE SOIL.

MALDRING - APPLY 1-1/2 TO 2 TONS PER ACRE (30 TO 40 LBS./1000 SQ.FT.) OF UNGRADED SMALL BROWN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL. USE 210 GAL. PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR GREATER, USE 140 GAL. PER ACRE (5 GAL./1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

**STANDARD SEDIMENT CONTROL NOTES**

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION. (151-105)
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THEREOF.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN A 7 CALENDAR DAYS FOR ALL PERMANENT SEDIMENT CONTROL STRUCTURES, DYES, PERMETER SLOPES, AND ALL SLOPES GREATER THAN 3:1, 10 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS, BARRIERS SHOWN MUST BE FENCED AND WARNINGS SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN A 7 CALENDAR DAYS FOR ALL PERMANENT SEDIMENT CONTROL STRUCTURES, DYES, PERMETER SLOPES, AND ALL SLOPES GREATER THAN 3:1, 10 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATING CONDITION THROUGHOUT THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:
  - TOTAL AREA OF SITE: 4.736 ACRES
  - AREA DISTURBED: 0.37 ACRES
  - AREA TO BE GRADED OR PAVED: 0.25 ACRES
  - AREA TO BE VEGETATIVELY STABILIZED: 0.25 ACRES
  - TOTAL FILL: 500 CU. YDS.
  - TOTAL EXCAVATION: 500 CU. YDS.

THESE QUANTITIES ARE FOR PERMIT PURPOSES ONLY. CONTRACTOR IS REQUIRED TO PROVIDE HIS OWN QUANTITIES MEASUREMENTS. 9/11/99/1

- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY BRUING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DETERMINED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERMITTED EROSION AND SEDIMENT CONTROL, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THE INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- PROVIDES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LINES OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, UNLESS OTHERWISE SHOWN.

**SEQUENCE OF CONSTRUCTION**

- OBTAIN GRADING PERMIT
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AT LOCATION SHOWN
- CONSTRUCT SILT FENCE
- COMPLETE FINE GRADING OF SITE TO GRADES INDICATED
- SEED AND MULCH ALL REMAINING DISTURBED AREAS
- UPON STABILIZATION OF THE SITE AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE REMAINING DISTURBED AREAS.

**NOTES**

- BOUNDARY INFORMATION SHOWN IS BASED ON PLAT #9707 PREPARED BY BOENDER ASSOC., INC. AND RECORDED ON 12/20/90 AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND.
- TAX MAP - 9, PARCEL - 331.
- TOPOGRAPHIC SURVEY CONDUCTED BY MILDENBERG, BOENDER & ASSOC. IN JULY 1997.



FIRST FLOOR ELEV. = 523.75  
 INV. OUT OF HOUSE = 520.75  
 INV. IN SEPTIC TANK = 520.39  
 INV. OUT SEPTIC TANK = 520.14  
 INV. IN DIST. BOX = 521.00  
 PROP. ELEV. @ SEPTIC TANK = 522.00  
 EXIST. ELEV. @ DIST. BOX = 524.00  
 NO GRAVITY SEWER SERVICE TO BASEMENT

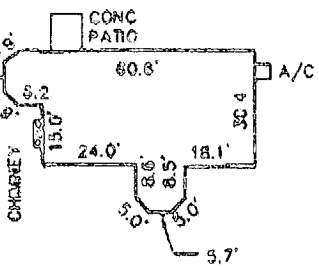
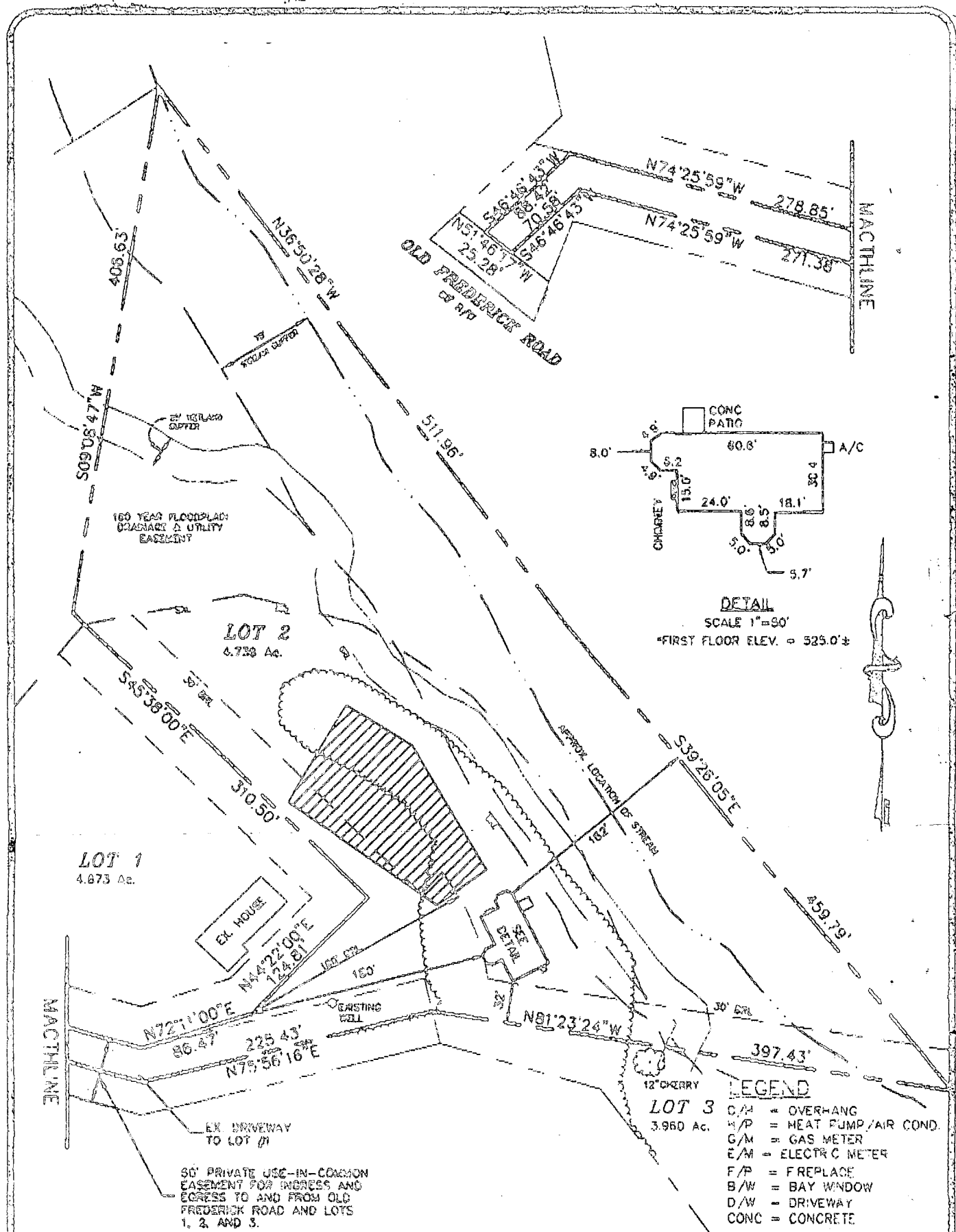
project	date
97038	JUL 1997
illustration	engineering
RCF	RCF
require	approval
1"-60'	

description	date
revisions	

**CRANE PROPERTY**  
 MAX MAP 9, PARCEL 331  
 HOWARD COUNTY, MARYLAND  
 4TH ELECTION DISTRICT  
**PLOT PLAN**

**MILDENBERG, BOENDER & ASSOC., INC.**  
 Engineers Surveyors  
 5072 Bessy Hall Brook Suite 202, Ellicott City, Maryland 21043  
 (410) 997-0296 Fax (301) 821-5521 Wash. (410) 997-0298 Fax





**DETAIL**  
 SCALE 1"=90'  
 \*FIRST FLOOR ELEV. = 525.0'±



- LEGEND**
- O/H = OVERHANG
  - H/P = HEAT PUMP/AIR COND.
  - G/M = GAS METER
  - E/M = ELECTRIC METER
  - F/P = FIREPLACE
  - B/W = BAY WINDOW
  - D/W = DRIVEWAY
  - CONC = CONCRETE

**CRANE PROPERTY**  
 PLAT No. 10651  
 ELECTION DISTRICT No. 4  
 HOWARD COUNTY, MARYLAND

THE INFORMATION SHOWN HAS BEEN ESTABLISHED BY CURRENT ACCEPTABLE SURVEY PROCEDURES AND FROM AVAILABLE RECORD INFORMATION. THIS DRAWING IS TO BE USED FOR TITLE TRANSFER FINANCING, OR REFINANCING ONLY AND IS NOT TO BE USED FOR THE ESTABLISHMENT OF PROPERTY LINES, LOCATION OF FENCES, GARAGES, STAMPS, OR OTHER EXISTING OR FUTURE IMPROVEMENTS.  
 \*RECESS 6/15/98 WITH FIRST FLOOR ELEVATION

**MILDENBERG BOENDER, & ASSOC., INC.**  
 Engineers Planners Surveyors  
 6922 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042  
 (410) 997-0838 Ext. (301) 821-8521 Fax. (410) 997-0208 Fax.

FOUNDATION	DATE: 01/12/97	FINAL	DATE:
DRAWN BY: T. HILL	SCALE: 1" = 100'		
PROJECT NO.: 97039	LOCATION DRAWING		

File:

Spoke with Building Insp.  
Receptionist, will have  
Supervisor call 10.2.98  
to place Stop Work Order  
on property.

10.1.98 (KM)

File:

10.1.98

Spoke with Diane Crane  
requested highest portions  
of septic be staked and  
copy of wall check sent  
showing exact location of  
installed septic KM  
perc hole should be dug