

# PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 511503

A 49482-A

DISTRICT \_\_\_\_\_

DATE 4/19/99

DATE SYSTEM APPROVED 4/19/99

INSPECTOR JS

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

*04-356934*

**INDEXED**

S K Backhoe IS PERMITTED TO INSTALL X ALTER \_\_\_\_\_

ADDRESS 1220 ESK Highway, Keymar, MD 21757 PHONE 410-775-0562

SUBDIVISION Warfield's Grant, Sec. II LOT 1 ROAD 16001 Fields End Court

PROPERTY OWNER Trinity Builders

ADDRESS \_\_\_\_\_

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

180 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 240

TRENCHES - Trench to be 3 feet wide. Inlet 4 feet below original grade. Bottom maximum depth 6 feet below original grade. Effective area begins at 4 feet below original grade. 2 feet of stone below distribution pipe.

LOCATION - Place distribution box 200 feet up the left (325.94') lot line and 100 feet off that same lot line as seen when facing the lot from Fields End Court. Run trenches on contour toward the rear lot line.

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

PLANS APPROVED BY Amy McMillen/Mark Rifkin REVISED \_\_\_\_\_ DATE 01/21/99

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

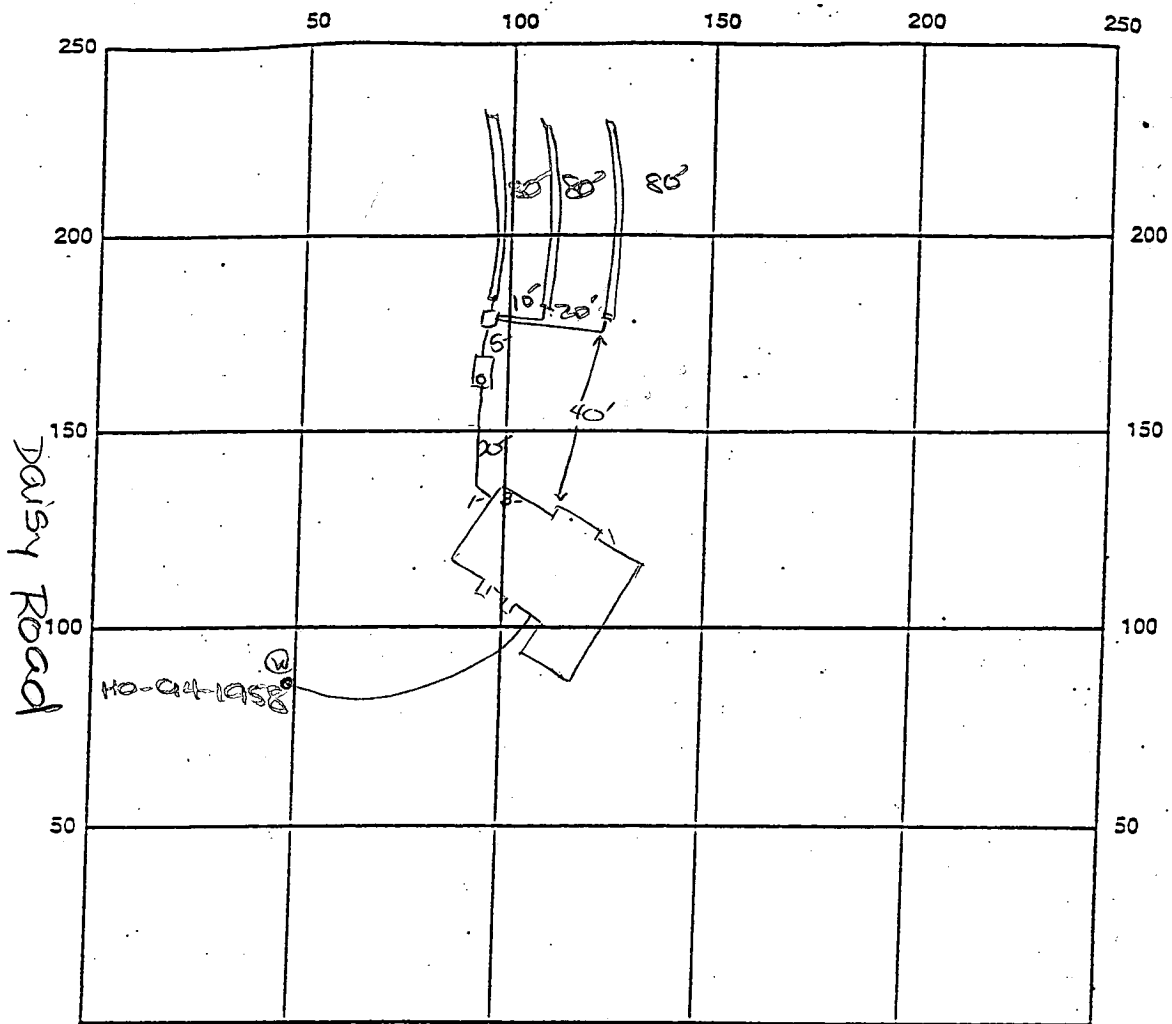
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON, CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET, MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

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

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

*419412-9*



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE  
Fields End Court

SEPTIC TANK LEVEL OK - 1250 gal CLEANOUTS one on s.t.

DISTRIBUTION BOX LEVEL OK

DRAIN FIELD/TITLE DEPTH 6 FT. TRENCH WIDTH 3 FT. INLET DEPTH 4 FT.

EFFECTIVE GRAVEL DEPTH 2 FT. TOTAL LENGTH 3 x 80 FT. → 240

NUMBER OF TRENCHES 3 ONE SIDEWALL/BOTTOM AREA 720 SQ. FT.

DRYWALL INSIDE DIAMETER — FT. EFFECTIVE DEPTH BELOW INLET — FT.

ABSORBENT AREA — SQ. FT.

REMARKS: 4/19/99 FINAL INSP - OK TO COVER ALL WORK. DIS

4/19/99 WOPC - (Contractor - 'Kemo P&H') - P.A. 3.5' b.g., well casing 1.5' a.g., 2 piece cap installed, PVC conduit OK OK TO COVER

DATE SYSTEM APPROVED 4/19/99 INSPECTOR [Signature] DIS

# APPLICATION

PERCOLATION TESTING

A 49482A

P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 313-2640

DISTRICT \_\_\_\_\_

DATE \_\_\_\_\_

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER WARFIELDS GRANT LTD. PARTNERSHIP c/o Ronald B. Carter  
*Trinity Builders*

ADDRESS P.O. Box 122 ELLICOTT CITY MD. 21043 PHONE \_\_\_\_\_

AGENT OR PROSPECTIVE BUYER FISHER COLLINS & CARTER ATTN: Zach Fisch

ADDRESS 9171 BALTIMORE NATIONAL PIKE ELLICOTT CITY MD. 21042 PHONE 461-2855

PROPERTY LOCATION:

SUBDIVISION WARFIELDS GRANT SEC. 2 LOT NO. 1

ROAD AND DESCRIPTION Daisy Road (16001 Fields End Court)

TAX MAP 13 PARCEL # 128

**BLDG. PERMIT SIGNED  
AND RETURNED 1-20-99  
Serial # BPO 11568-1**

SIZE OF LOT 1 AC. ± TYPE BLDG. S.F.D. - 4 Bdrms  
(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. Zacharia G. Fisch (agent)  
(SIGNATURE OF APPLICANT)

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

DISAPPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

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

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

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE \_\_\_\_\_

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE \_\_\_\_\_

# THIS IS NOT A PERMIT

A49482 A

PASPO560 LOT 1

COUNTY #

SOIL PROFILE

43

red CL

SM CL  
red/brn

42

red CL

SM CL  
red/brn

44

tan SL

red CL

rock  
layer  
>40%

1 red  
SL

SOIL PROFILE

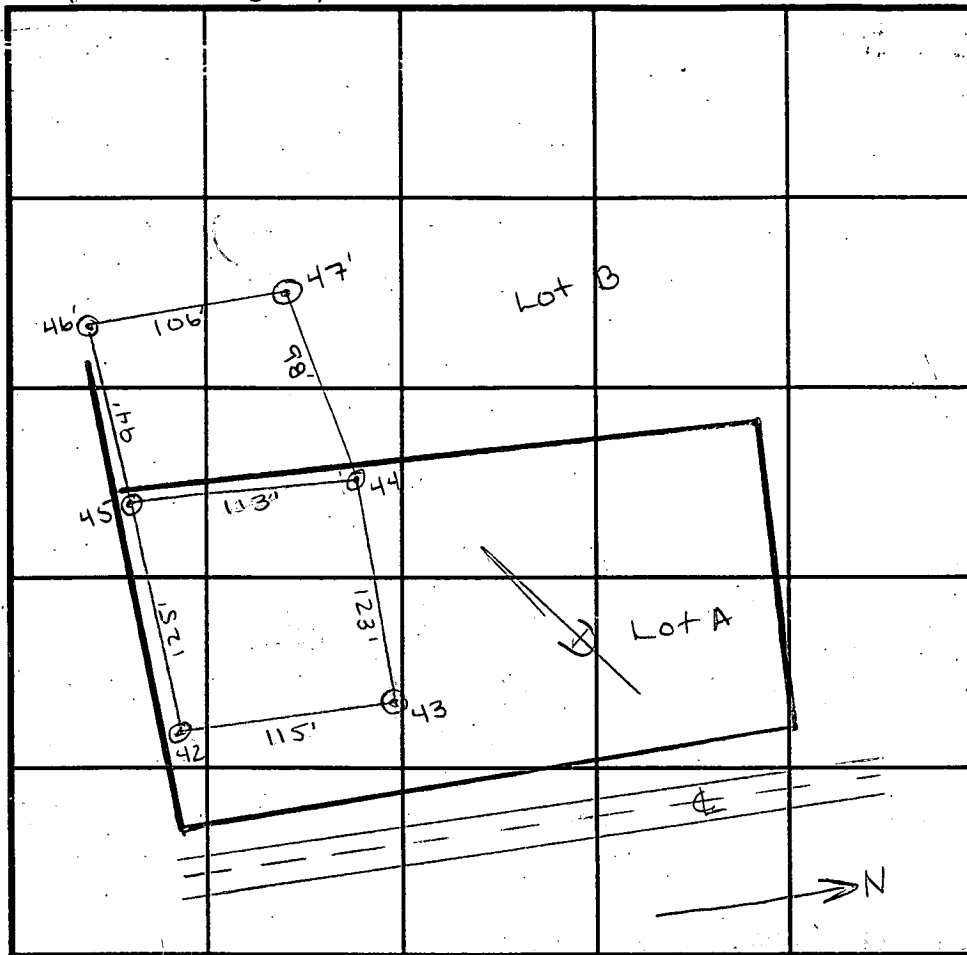
45

tan SL

red CL

rocky  
layer  
>40%

red  
SL



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8/20/93	42	VII 1/2	12:46 <sup>30</sup>	12:49	12:49	12:51	2
		9	12:47 <sup>20</sup>	12:50	12:50	12:54	4
	43	VII 5/2	12:46	12:46 <sup>50</sup>	12:46 <sup>50</sup>	12:48 <sup>30</sup>	2
		8	12:45	12:46 <sup>30</sup>	12:46 <sup>30</sup>	12:52	5 1/2
	44	VII 1/2	1:00 <sup>20</sup>	1:01 <sup>30</sup>	1:01 <sup>30</sup>	1:02	
	45	repor	1:03 <sup>20</sup>	1:05	1:05	1:07 <sup>40</sup>	2 1/2
	45	VII 5	1:11	1:12	1:12	1:14	2
		9	1:11	1:14	1:14	1:19	5

REMARKS TESTS 46+47 ARE FROM A 49482 B

TYPE OF SOIL Chester

TESTED BY Amy McMullen (CO) ALSO PRESENT Cissle/Andres

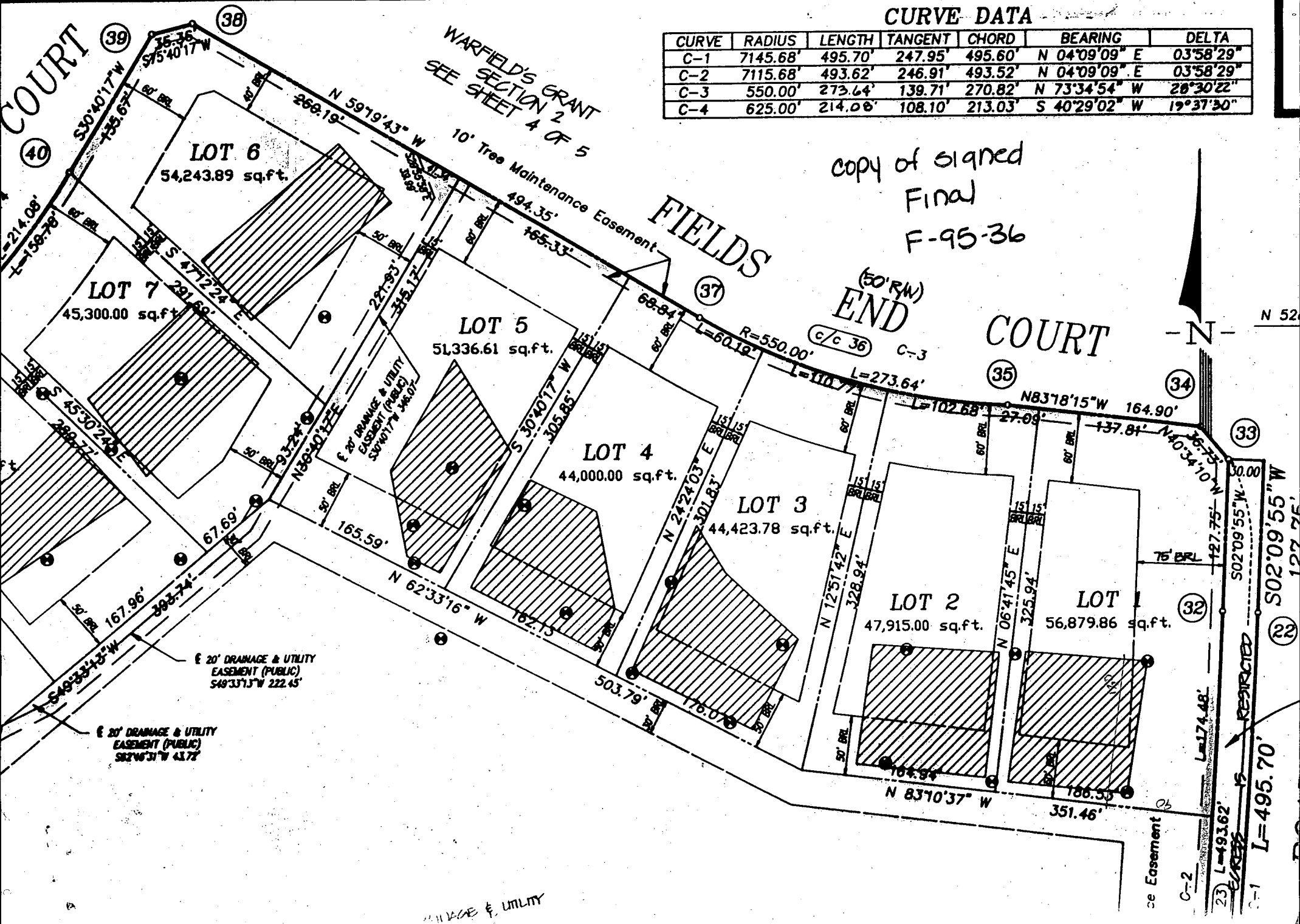
TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 3 min TRENCH WIDTH 3

INLET DEPTH 4' MAXIMUM BOTTOM DEPTH 6' SQ. FT./BEDROOM 180



**CURVE DATA**

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C-1	7145.68'	495.70'	247.95'	495.60'	N 04°09'09" E	03°58'29"
C-2	7115.68'	493.62'	246.91'	493.52'	N 04°09'09" E	03°58'29"
C-3	550.00'	273.64'	139.71'	270.82'	N 73°34'54" W	28°30'22"
C-4	625.00'	214.06'	108.10'	213.03'	S 40°29'02" W	19°37'30"



WARFIELD'S GRANT  
SECTION 2  
SEE SHEET 4 OF 5

copy of signed  
Final  
F-95-36

(50' RW)  
END

COURT

RESTRICTED  
L=493.62'  
L=495.70'

EASEMENT & UTILITY

**FIELDS  
END COURT**  
(PUBLIC ROAD)

**DAISY ROAD**  
(PUBLIC ROAD)

**Total linear feet of trench required 240 feet**

**Width of trench (es) 3'**

**Depth of trench (es) 6'**

**Depth of stone required below distribution pipe 2'**

**Tree Maintenance Easement**

**Approved Septic System Plan**  
**Howard County Health Department**

**Approved Septic System Plan**  
**Howard County Health Department**

*Mark E. Ruffin*  
**Signature**

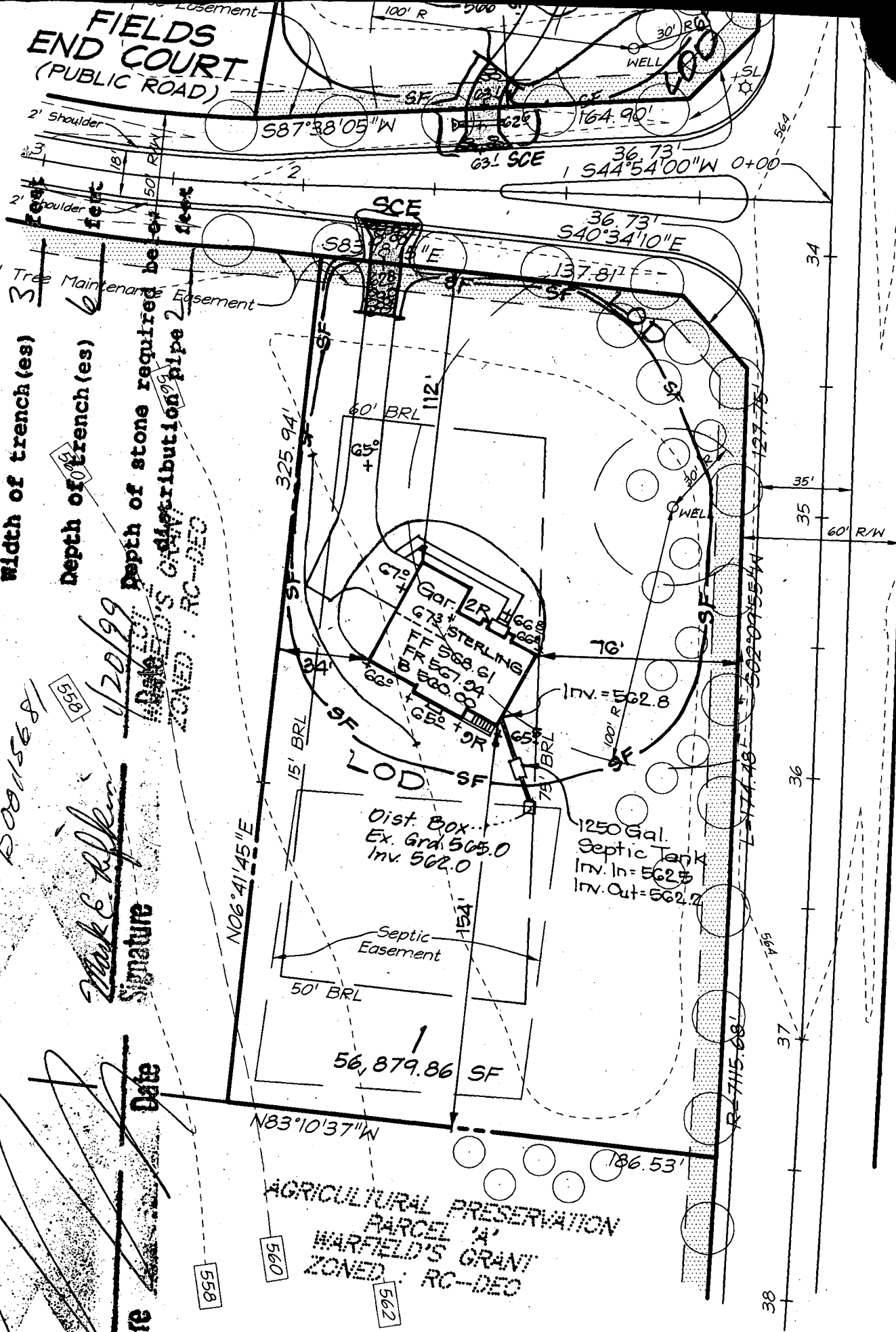
*[Signature]*  
**Signature**

1/20/99  
**Date**

**Date**

WARFIELD'S GRANT  
ZONED: RC-DEO

AGRICULTURAL PRESERVATION  
PARCEL 'A'  
WARFIELD'S GRANT  
ZONED: RC-DEO



C1 9307

SEQUENCE (MDE USE ONLY)

STATE OF MARYLAND  
WELL COMPLETION REPORT  
FILL IN THIS FORM COMPLETELY  
PLEASE TYPE

THIS REPORT MUST BE SUBMITTED AFTER WELL IS COMPLETED.  
COUNTY NUMBER A49482A

ST/CO. USE ONLY  
DATE Received  
MM DD YY  
8 13

DATE WELL COMPLETED  
MM DD YY  
12 16 98

Depth of Well  
22 185 26  
(TO NEAREST FOOT)

PERMIT NO.  
FROM "PERMIT TO DRILL WELL"  
HO-94-1958  
28 29 30 31 32 33 34 35 36 37

OWNER Trinity Custom Homes  
STREET OR RFD Fields End Ct TOWN Paisy  
SUBDIVISION Warfields Grant SECTION 2 LOT 1

**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	45	
Brown SLATE	45	50	
Blue SLATE	50	60	
Brown SLATE	60	65	✓
Blue SLATE	65	185	

**GROUTING RECORD** yes no

WELL HAS BEEN GROUTED (Circle Appropriate Box)  Y  N

TYPE OF GROUTING MATERIAL (Circle one)  
CEMENT  CM BENTONITE CLAY  BC

NO. OF BAGS 11 NO. OF POUNDS 1100

GALLONS OF WATER 66

DEPTH OF GROUT SEAL (to nearest foot)  
from 0 ft. to 30+ ft.  
(enter 0 if from surface)

**CASING RECORD**

casing types insert appropriate code below

ST STEEL  CO CONCRETE  
 PL PLASTIC  OT OTHER

MAIN CASING TYPE PL Nominal diameter top (main) casing (nearest inch)! 6 Total depth of main casing (nearest foot) 54

60 61 63 64 66 70

**OTHER CASING (if used)**

diameter inch \_\_\_\_\_ depth (feet) from \_\_\_\_\_ to \_\_\_\_\_

E A C H C A S I N G

**SCREEN RECORD**

screen type or open hole insert appropriate code below

ST STEEL  BR BRASS  HO OPEN HOLE  
 PL PLASTIC  OT OTHER

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED  Y  N

- 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 26.04.04 "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 LIC. NO. 1 MSD 116  
Paul E. Wagner  
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 MSD 116  
Paul E. Wagner

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

**C 2** DEPTH (nearest ft.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
E	8	9	11	15	17	21															
A																					
C	23	24	26	30	32	36															
H																					
S																					
C	38	39	41	45	47	51															
3																					
E																					
R																					
3																					
E																					
N																					

DIAMETER OF SCREEN \_\_\_\_\_ (NEAREST INCH)  
56 60  
from \_\_\_\_\_ to \_\_\_\_\_

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

**MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)**

T (E.R.O.S.) \_\_\_\_\_ W Q \_\_\_\_\_

70 \_\_\_\_\_ 72 \_\_\_\_\_ 74 75 76 \_\_\_\_\_

TELESCOPE CASING \_\_\_\_\_ LOG INDICATOR \_\_\_\_\_ OTHER DATA \_\_\_\_\_

**C 3**

**PUMPING TEST**

HOURS PUMPED (nearest hour) 3  
8 9

PUMPING RATE (gal. per min.) 7.5  
11 15

METHOD USED TO MEASURE PUMPING RATE Budget

WATER LEVEL (distance from land surface)  
BEFORE PUMPING 63 ft.  
17 20  
WHEN PUMPING 84 ft.  
22 25

TYPE OF PUMP USED (for test)  
 A air  P piston  T turbine  
27 27 27  
 C centrifugal  R rotary  O other (describe below)  
27 27 27  
 J jet  S submersible  
27 27

**PUMP INSTALLED**

DRILLER INSTALLED PUMP (CIRCLE) (YES OR NO) YES  NO

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

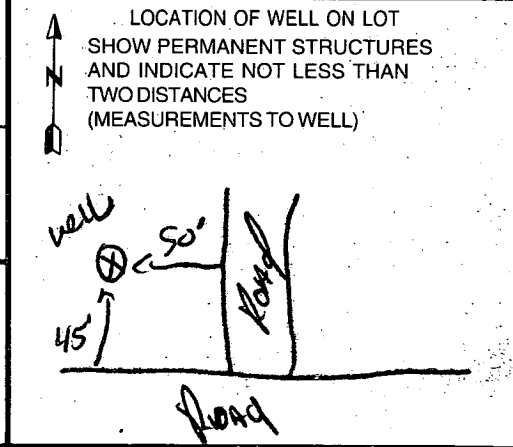
TYPE OF PUMP INSTALLED: PLACE (A,C,J,P,R,S,T,O) IN BOX 29 \_\_\_\_\_ 29

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  
 (-) below } 2 (nearest foot)  
49 50 51



B 1 **4789**

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND  
PERMIT TO DRILL WELL  
please print or type

STATE PERMIT NUMBER

**HO-94-1958**  
70 fill in this form completely 79

Date Received (APA)  
**11 02 98**

OWNER INFORMATION

**Trinity Custom Homes**  
15 Last Name Owner First Name 34  
**6212 Devon Dr.**  
36 Street or RFD 55  
**Columbia MD 21047**  
57 Town 70 State 72 Zip 76

B 3

LOCATION OF WELL

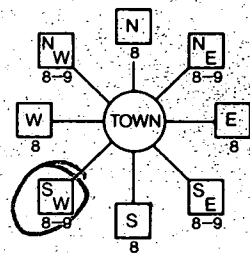
**Howard**  
8 COUNTY 21  
**WARFIELDS GRANT**  
23 SUBDIVISION 42  
SECTION **2** LOT **1**  
44 46 48 50  
**DAISY**  
52 NEAREST TOWN 71  
MILES FROM TOWN (enter 0 if in town) **1** M I  
73 76 77 78

DRILLER INFORMATION

**Ralph MAYNE** **MS D 116**  
76 License No. 81  
**Ralph MAYNE well DRILLING**  
Firm Name  
**9120 Brown Church Rd Mt Airy**  
Address  
**Ralph Mayne 10-29-98**  
Signature Date

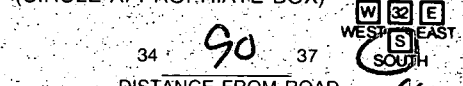
B 4

1 2  
DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



**FIELDS END CT**  
11 NEAR WHAT ROAD 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



**90**  
34 DISTANCE FROM ROAD 37  
ENTER FT OR MI 38 39

TAX MAP: \_\_\_\_\_ BLK: \_\_\_\_\_ PARCEL: \_\_\_\_\_

B 2

WELL INFORMATION

APPROX. PUMPING RATE **5**  
7 APPROX. PUMPING RATE (GAL. PER MIN.) 12  
AVERAGE DAILY QUANTITY NEEDED **500**  
8 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
- FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
- INDUSTRIAL, COMMERCIAL, DEWATERING
- PUBLIC WATER SUPPLY WELL
- TEST, OBSERVATION, MONITORING
- GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

**Howard Co** **A49482A**  
COUNTY NAME COUNTY NO.  
STATE SIGNATURE \_\_\_\_\_ INSERT S \_\_\_\_\_  
DATE ISSUED **110698** **A McWells** **11/6/99**  
43 MM DD YY 48 CO SIGNATURE EXP. DATE  
NORTH GRID **530 000** EAST GRID **780 000**  
50 55 57 63

APPROXIMATE DEPTH OF WELL **150** FEET  
24 28

APPROXIMATE DIAMETER OF WELL **6"** NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN  
30 AIR-ROTARY AIR-PERCussion. ROTARY (Hydraulic Rotary)  
37 CABLE REVerse-ROTary DRIVE-POINT  
other \_\_\_\_\_

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

- 1. well
- 2.
- 3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E **780**  
N **530**

**12/15/98** **Shout** **P.M.**

**now**



REPLACEMENT OR DEEPEINED WELLS (CIRCLE APPROPRIATE BOX)

- THIS WELL WILL NOT REPLACE AN EXISTING WELL
- THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
- 39  THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
- THIS WELL WILL DEEPEIN AN EXISTING WELL

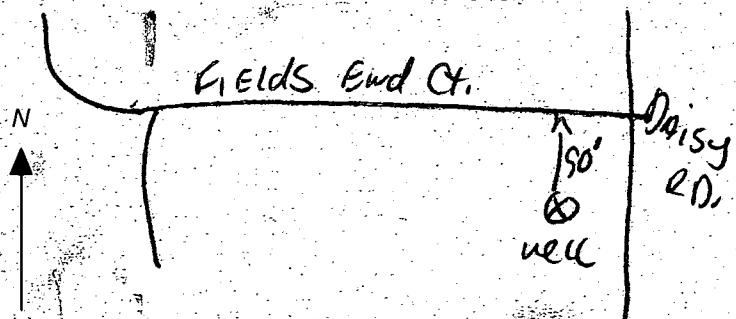
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) 41 \_\_\_\_\_ 52

Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROX. PERMIT NUMBER \_\_\_\_\_ GAP \_\_\_\_\_ 54 63

PERMIT No. **HO-94-1958**  
70 71 72 73 74 75 76 77 78 79

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



SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED