

10/26/98
c.o. 1:00
+ later
10/27/98
c.o. 10:30

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P. 511053

A 42632

DISTRICT 4th

DATE 10/20/98

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

357205

DATE SYSTEM APPROVED 10/27/98

INSPECTOR AK

INDEXED

Olen Ketterman IS PERMITTED TO INSTALL ALTER

ADDRESS 14960 Route 144 Woodbine, Maryland 21797 PHONE (410) 442-1336

SUBDIVISION Warfields Grant, Sec. II LOT 28 ROAD 16004 Fields End Court

PROPERTY OWNER Stephen Borrer

ADDRESS _____

SEPTIC TANK CAPACITY 2000 GALLONS ***SEPTIC SYSTEM SIZED FOR 3 BEDROOMS IN MAIN HOUSE AND AN APARTMENT ABOVE THE GARAGE.***

NUMBER OF BEDROOMS 6

180 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 270

TRENCHES - Trench to be 2 feet wide. Inlet 3.5 feet below original grade. Bottom maximum depth 7.5 feet below original grade. Effective area begins at 3.5 feet below original grade. 4 feet of stone below distribution pipe.

LOCATION - Place distribution box 250 feet up the left (358.28") and 70 feet off that same lot line as seen when facing the lot from Fields End Court. Run trenches on contour in both directions.

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

PLANS APPROVED BY Amy McMillen DATE 3/19/98

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 **BDDG. PERMIT SIGNED**

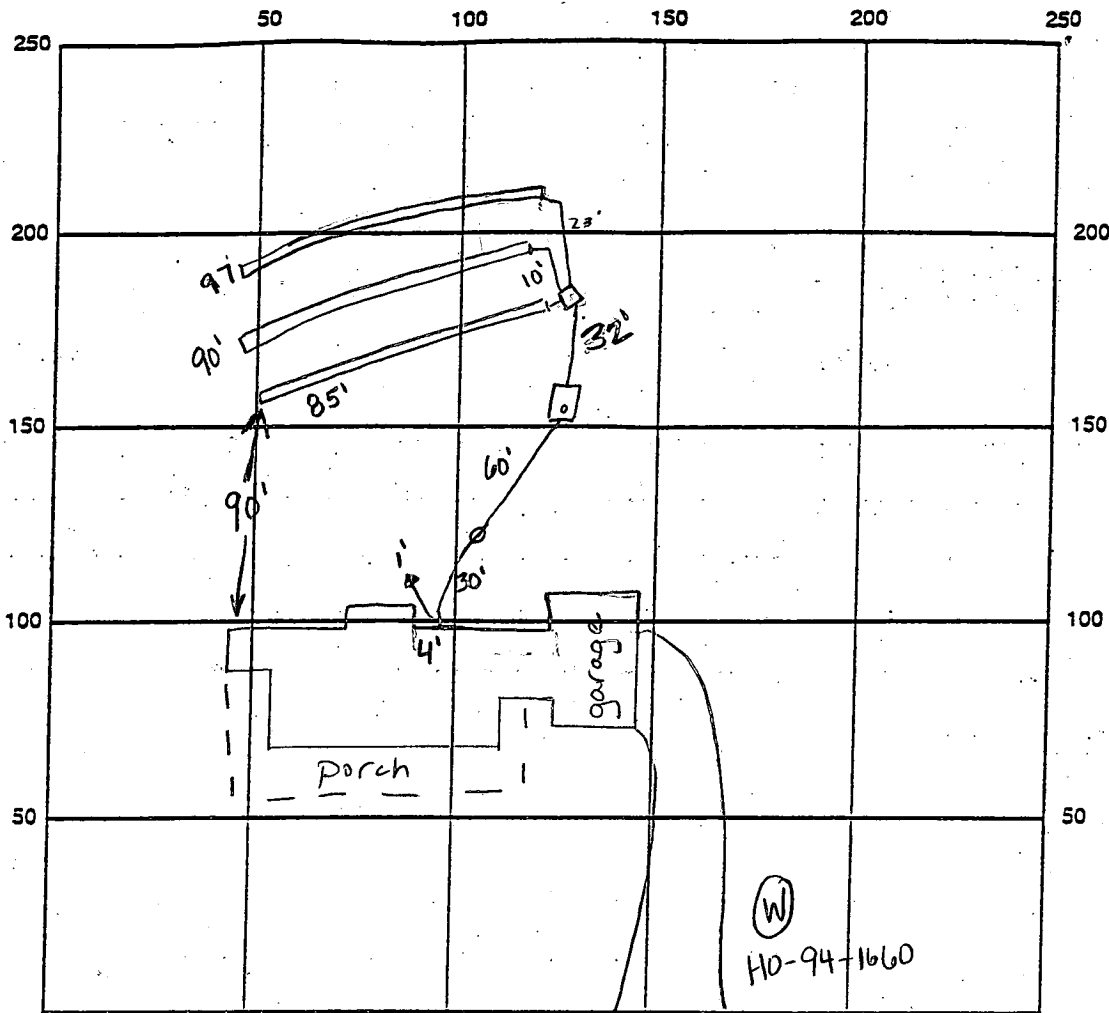
PERMIT VOID AFTER TWO YEARS

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 *per permit*

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

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

A 412 682



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

Fields End Ct

SEPTIC TANK LEVEL OK, 2000 gallons CLEANOUTS 1 on tank, 1 on line

DISTRIBUTION BOX LEVEL OK

DRAIN FIELD/TITLE DEPTH 7.5 FT. TRENCH WIDTH 2 FT. INLET DEPTH 3.5 FT.

EFFECTIVE GRAVEL DEPTH 4 FT. TOTAL LENGTH 272 FT.

NUMBER OF TRENCHES 3 ONE SIDEWALL/BOTTOM AREA 1088 SQ. FT. $\frac{272}{4} = 1088$

DRYWALL INSIDE DIAMETER FT. EFFECTIVE DEPTH BELOW INLET FT.

ABSORBENT AREA SQ. FT.

REMARKS: 10/26/98 has house connection, distribution box needs baffle and levelers
OK to cover 1st trench and continue KM

10/26/98 (2nd insp) WPI OK to cover - P.A. 4.5' below grade, casing 8" above grade,
has 2 piece cap, line skewed under drive, needs electrical conduit and ground

wire attached, line skewed out of house (KM) Septic - OK to cover 2nd trench and continue (KM)

10/27/98 OK to stone & cover last trench - materials on site All

DATE SYSTEM APPROVED 10/27/98 INSPECTOR James McMillan

10/27/98 P.Hess 4' below grade, 2 piece cap & PVC conduit pipe installed - casing 1' above grade All

APPLICATION

PERCOLATION TESTING

A 42632

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

4th DISTRICT

P _____

4TH

8-05-88

DATE _____

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 Mr. Robert M. Warfield

ADDRESS 2425 Daisy Road, Woodbine, Md. 21797

PHONE _____

PROSPECTIVE BUYER Carman Associates

ADDRESS P.O. Box 122, Ellicott City, Md.

PHONE 854-6797

PROPERTY LOCATION:

SUBDIVISION Warfields Grant

Sec. 2

LOT NO. _____

28

same

ROAD AND DESCRIPTION West Side Daisy Road

16004 Fields END Ct

TAX MAP 13 PARCEL # 128

SIZE OF LOT 3 acres

SFD

TYPE BLDG. _____

(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.

Philip R. Margolis
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 10-14-88 Per Satisfactory - Hold for PCAT. SAC

HD-216

THIS IS NOT A PERMIT

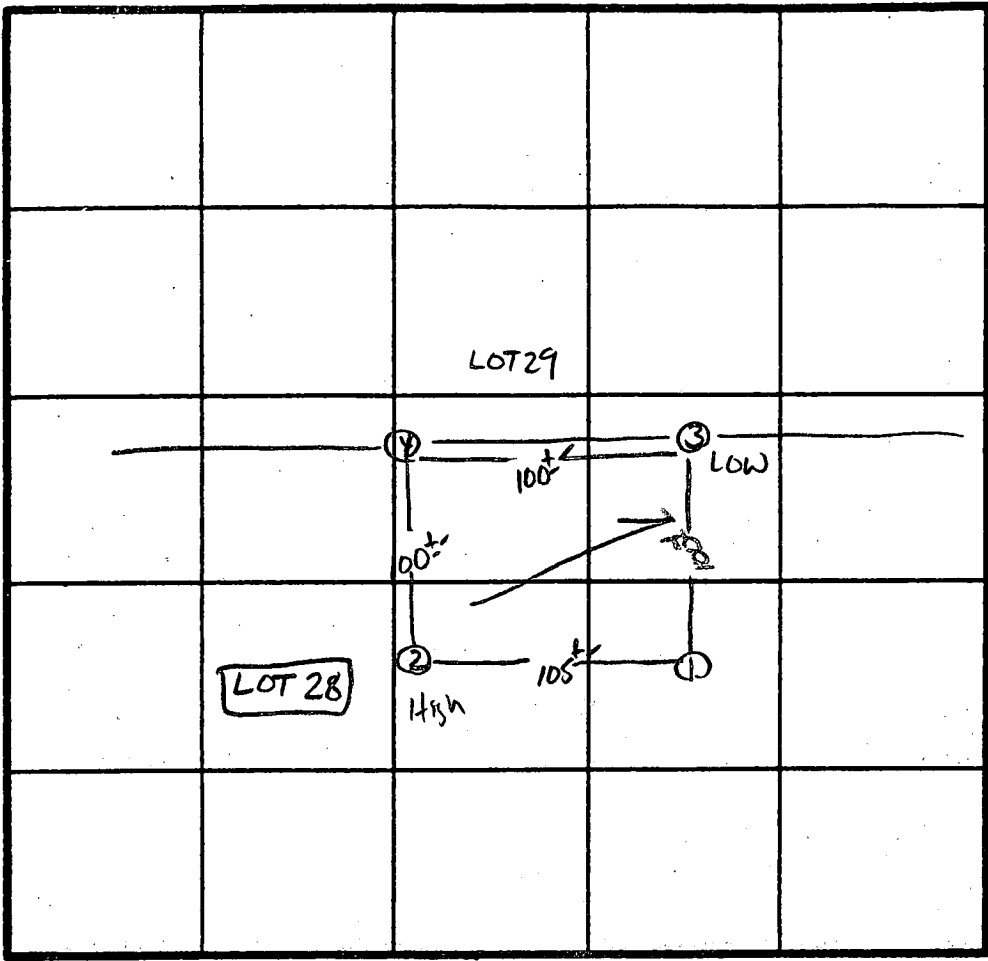
A 42632

SOIL PROFILE

0"
6" AD
Yellow Bk
Silty Clay
Lom
Cu 90% fmp

3-
3.5"
Yellow Bk
w/ Pink
Casts
15-25%
PLAKO
MICROBS

13"



X Perc
6 min
1800/132
In Lot 3.5'
Bottom 7.5'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DAISY Rd.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
10/14/88	1 S	4"	11:08	11:09	11:09	11:11	2min
		12"	UNIFORM SOIL below 3.5"				
	2 S	4"	11:05	11:06	11:06	11:08	2min
		13"	UNIFORM SOIL below 3.0"				
	3 S	4.0"	11:09	11:17	11:17	11:31	14min
		12.5"	UNIFORM SOIL below 4.0"				
	4 S	4"	10:57	10:58	10:58	11:00	2min
		8"	10:57	11:00	11:00	11:06	
	4 V	13"	UNIFORM SOIL below 3.5" - 4.0"				

REMARKS: Hobos Approx PLAT

TYPE OF SOIL: Glenelg

TESTED BY: S. Agul ALSO PRESENT: Phil M. Cissel

A49482X

COUNTY #

SOIL PROFILE

0'	red/brn w/ yellow C
3'	micl red
9'	brn sil rock pocket FAIL THIS HOLE

2'	red brn C
----	-----------------

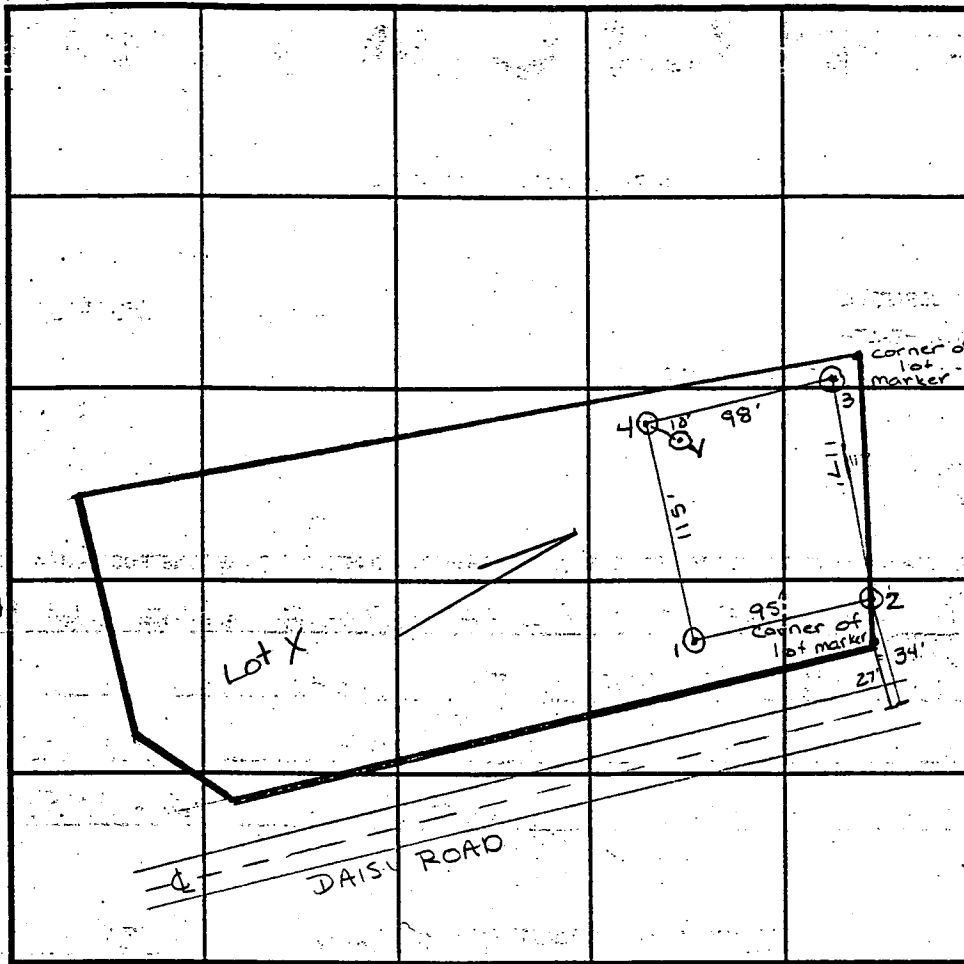
4'	red micl
----	-------------

10'	brn sil 40% rock shaley
-----	-------------------------------------

12 1/2'	3 red/brn C
---------	-------------------

1/2'	micl red
------	-------------

5% rock



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE

0'	red/brn C
3'	micl red
11'	20% rock

3'	red/brn C micl red
----	-----------------------------

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8/18/93	FAIL →	VII 4 1/2	9:53	9:55	9:55	9:57	2
	2	8	9:54	9:57	9:57	10:00	3
	2	VII 2 1/2 4 1/2	9:59	10:00	10:00	10:03	3
		8 1/2	9:57	10:00	10:00	10:04	4
	3	VII 4 1/2	10:09	10:09 ³⁰	10:09 ³⁰	10:11 ³⁰	2
	4	VII 5'	10:13 ³⁰	10:14	10:14	10:16	2
		beside on side of lot 29 there is a rock formation - fails on lot 29 side					

REMARKS Visual dug for hole 4 → passed rock intrusion ends
 TYPE OF SOIL Glenela
 TESTED BY Amy McMillen/Cavello ALSO PRESENT Cissie/Andres
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 3 MIN TRENCH WIDTH 3
 INLET DEPTH 4 MAXIMUM BOTTOM DEPTH 6 SQ. FT/BEDROOM 180

Signed
Preliminary
Plan

SHEET

LIMIT OF WORK
STA. 5+50

OF

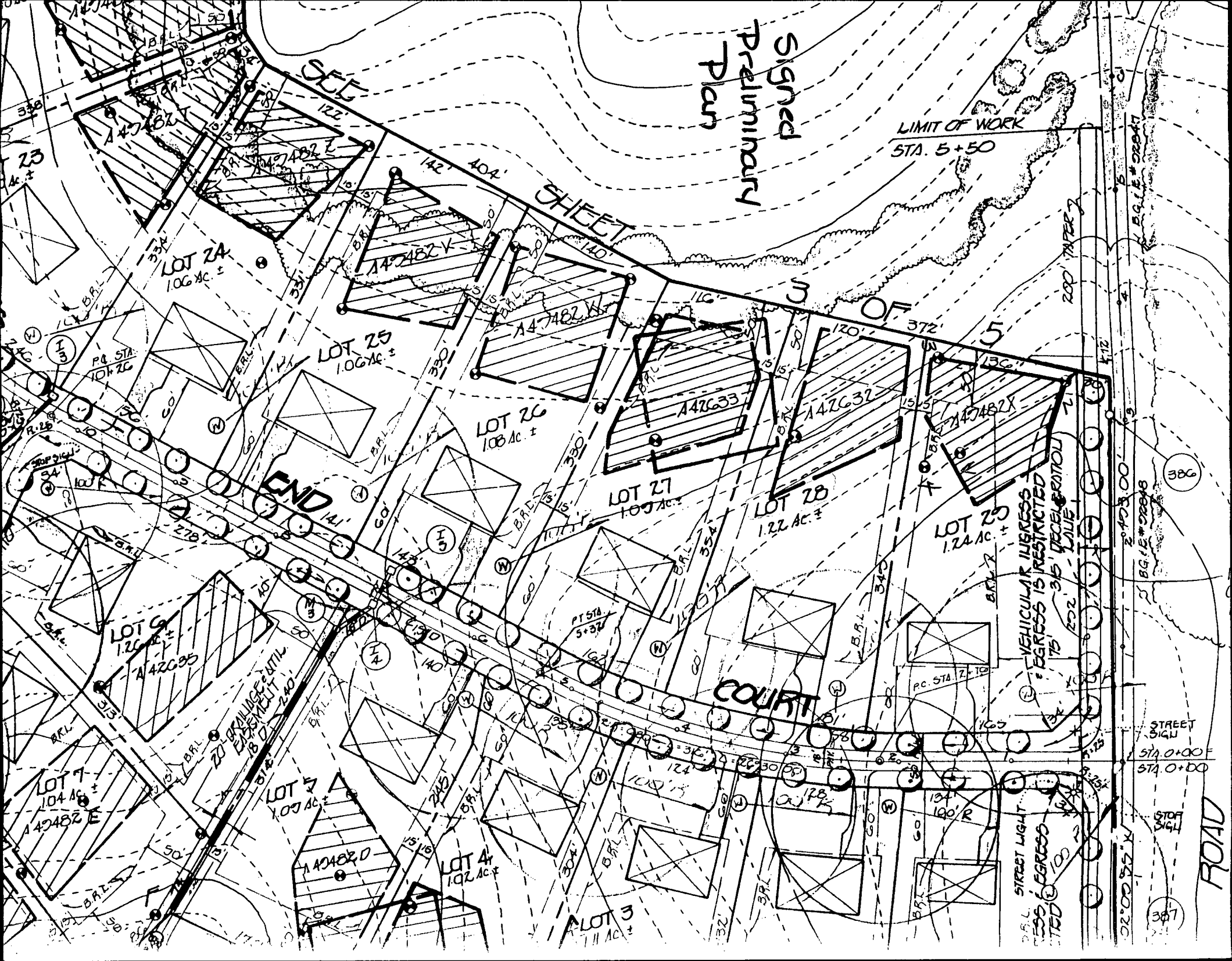
END

COURT

VEHICULAR ACCESS
EGRESS IS RESTRICTED
75' 35' RECESSION

STREET SIGN
STA. 0+00
STA. 0+00

ROAD



23
Ac. ±

LOT 24
1.06 Ac. ±

LOT 25
1.06 Ac. ±

LOT 26
1.08 Ac. ±

LOT 27
1.09 Ac. ±

LOT 28
1.22 Ac. ±

LOT 29
1.24 Ac. ±

LOT 6
1.20 Ac. ±

LOT 7
1.04 Ac. ±

LOT 8
1.09 Ac. ±

LOT 4
1.02 Ac. ±

LOT 3
1.11 Ac. ±

386

387

ACCESSORY APARTMENT PERMIT APPLICATION

(Rev. 3/98)

1. Applicant's Name (please print) STEPHEN M BORROR
 - Telephone No. 410-988-8113
 2. Address of property containing apartment:
16004 FIELDS END COURT
WOODBINE, MD. 21797
 3. Total floor area of house 2188 (include area of accessory apartment but do not include floor area of garages)
 4. Floor area of accessory apartment 600 (may not exceed 800 square feet or 1/3 of the house, whichever is less)
 5. Number of parking spaces on-site 4
[A minimum of two spaces must be provided for the principal dwelling and one space for the accessory apartment. All parking must be provided on-site. Street parking may not be used to meet minimum requirement].
 6. Number of bedrooms in accessory apartment 1 (may not exceed 2)
 7. Square footage/acreage of lot 54,000 / 1.25 AC
 8. Unit to be occupied by property owner: (circle one) main dwelling/apartment
 9. Number of dwelling structures on property 1
 10. Number of dwelling units in each structure 2
- STEPHEN BORROR
Property owner's name
(please print)
- Stephen M Borr
Property owner's signature

Please return this application to: Department of Planning & Zoning
3430 Courthouse Drive
Ellicott City, MD 21043-4350

.....
For Department of Planning & Zoning Use

Application received August 4, 1998
(date)

Zoning District RC (Rural Conservation)

Reviewed by [Signature]

Approved/Denied (circle one) date August 4, 1998

WARFIELDS GRANT

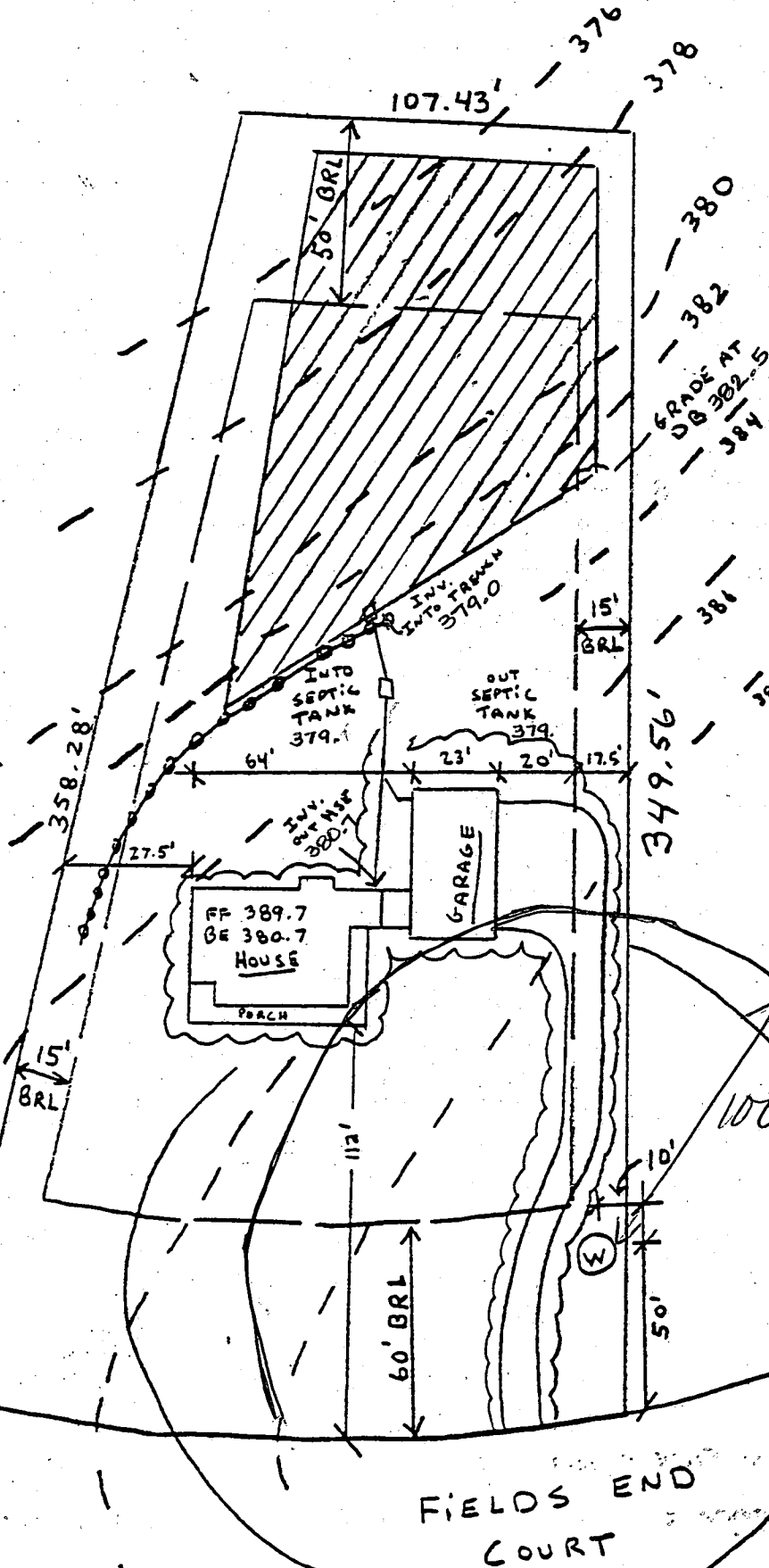
LOT 28

Approved Septic System Plan
Howard County Health Department

Shirley McMillan 8-19-98
Signature Date

Total linear feet of trench required 270 feet
Width of trench(es) 2.0 feet
Depth of trench(es) 7.5 feet

Depth of stone required below distribution pipe 4.0 feet



1:50±

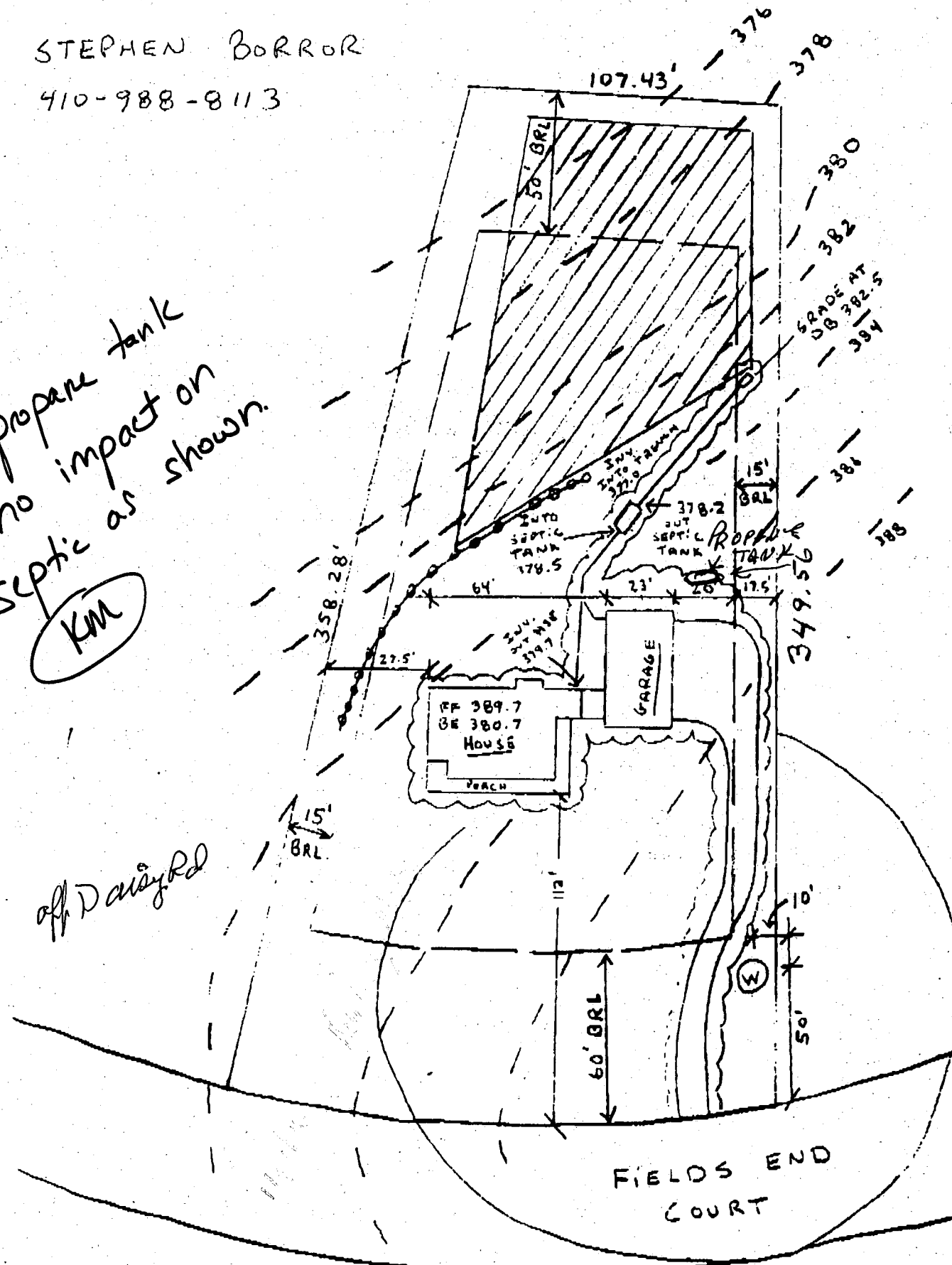
FIELDS END COURT

Attention: Mike Swadner

410-861-8435

From: STEPHEN BORROR
410-988-8113

11/9/98
Proposed propane tank
will have no impact on
well and septic as shown.
km



off Daisy Rd

2 Fur
2 AW 12
1 edge

FIELDS END COURT

C1 4158 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED AFTER WELL IS COMPLETED.

COUNTY NUMBER A42632

ST/CO USE ONLY DATE Received MM 8 DE 13 YY 98

DATE WELL COMPLETED MM 8 DD 13 YY 98 Depth of Well 22 285 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-94-1660

OWNER Borrer Stephen last name Fields End Ct first name TOWN Lisbon SUBDIVISION Winfields Grant II SECTION LOT 28

WELL LOG Not required for driven wells

GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) YES Y NO N

C 3 PUMPING TEST

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

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Rows: Brown Shale 0 97, Blue Rock 97 285 ✓

TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC NO. OF BAGS 22 NO. OF POUNDS 2068 GALLONS OF WATER 132 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 85 ft.

HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 8.5 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface)

CASING RECORD casing types insert appropriate code below ST STEEL CO CONCRETE PL PLASTIC OT OTHER

BEFORE PUMPING 56 ft. WHEN PUMPING 89 ft. TYPE OF PUMP USED (for test)

MAIN CASING TYPE ST Nominal diameter top (main) casing (nearest inch)! 6 Total depth of main casing (nearest foot) 101

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

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

NUMBER OF UNSUCCESSFUL WELLS: 0

SCREEN RECORD screen type or open hole insert appropriate code below ST STEEL BR BRASS HO OPEN HOLE PL PLASTIC OT OTHER

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

WELL HYDROFRACTURED YES Y NO N

C 2 DEPTH (nearest ft.) 100 285

PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47

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

SLOT SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH) 56 60

CASING HEIGHT (circle appropriate box and enter casing height) (+) above () below LAND SURFACE 1 (nearest foot)

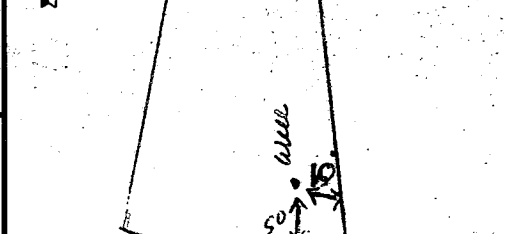
I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

GRAVE PACK IF WELL DRILLED, WAS FLOWING WELL INSERT F IN BOX 68

LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURES AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)

DRILLERS LIC. NO. 1 M SDO 24 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 1 D

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q 70 72 74 75 76



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

TELESCOPE CASING LOG INDICATOR OTHER DATA

B 1	3025	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND PERMIT TO DRILL WELL please print or type	STATE PERMIT NUMBER
<small>(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)</small>			HO-94-1660 <small>fill in this form completely</small>	

OWNER INFORMATION

Date Received (APA) 7/22/98

8 MM DD YY 13

15 Last Name Borror Owner Stephen First Name Stephen 34

36 12435 Clarksville Pike Street or RFD 55

57 Clarksville Town 70 Mo. State 72 21029 Zip 76

B 3 LOCATION OF WELL

8 COUNTY Howard 21

23 SUBDIVISION Warfield Grant 42

SECTION 2 46 LOT 28 48 50

52 NEAREST TOWN Lisbon 71

MILES FROM TOWN (enter 0 if in town) 4 1/2 M 73 76 77 78

DRILLER INFORMATION

Driller's Name Joseph L. Mayne MS DO24 76 License No. 81

Firm Name Joseph L. Mayne Well Drilling

Address 5512 Ridge Rd. Mt. Airy 21711

Signature Joseph L. Mayne Date 7/22/98

B 4

1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

11 NEAR WHAT ROAD Shields End Ct. 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

34 50 37 DISTANCE FROM ROAD ENTER FT OR MI 38 39

TAX MAP: _____ BLK: _____ PARCEL _____

B 2 WELL INFORMATION

1 2 APPROX. PUMPING RATE (GAL. PER MIN.) 15 8 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)

FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

22 INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)

PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE APPROVAL)

TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

County Name Howard County No. A42632

STATE SIGNATURE _____ INSERT S → 41

DATE ISSUED 080598 A McMillan 8/5/99

43 MM DD YY 48 CO SIGNATURE EXP. DATE

NORTH GRID 530 50 55 EAST GRID 780 57 63

APPROXIMATE DEPTH OF WELL 260 FEET 24 28

APPROXIMATE DIAMETER OF WELL 6 INCH 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 _____

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

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 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)

APPROX. PERMIT NUMBER _____ G A P _____ 54 63

FORCE AM WRITE INITIALS IN BOX PERMIT No. HO-94-1660

67 68 70 71 72 73 74 75 76 77 78 79

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

- well
-
-

WRITE THE BOX NUMBER FROM THE MAP HERE

E 780

N 530

000
000

