

Septic - 12-2pm 8/10/99

PERMIT

P 512006

SEWAGE DISPOSAL SYSTEM

A 59805

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

DISTRICT _____

INDEXED

DATE 7/15/99

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH
~~XXXXXX~~ 410-313-2640

DATE SYSTEM APPROVED 8/10/99

INSPECTOR DKS

04-328957

Heritage Land Development IS PERMITTED TO INSTALL ALTER _____

ADDRESS 3060 Washington Road, Glenwood, Maryland 21738 PHONE 410-489-7900

SUBDIVISION Curry Property LOT _____ ROAD 15211 Frederick Road

PROPERTY OWNER _____ Timothy Feaga

BUILDING PERMIT SIGNED

AND RETURNED

5-24-04 BO 0148186-DECK/SCREENED PORCH

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 2.0 feet below original grade. Bottom maximum depth 4.0 feet below original grade. Effective area begins at 2.0 feet below original grade. 2.0 feet of stone below distribution pipe.

LOCATION - Begin trenches at the highest portion of the septic easement (approximately 240 feet off the front lot line). 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 5/10/99 DKS*

PLANS APPROVED BY Amy McMillen DATE 4-28-1999

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

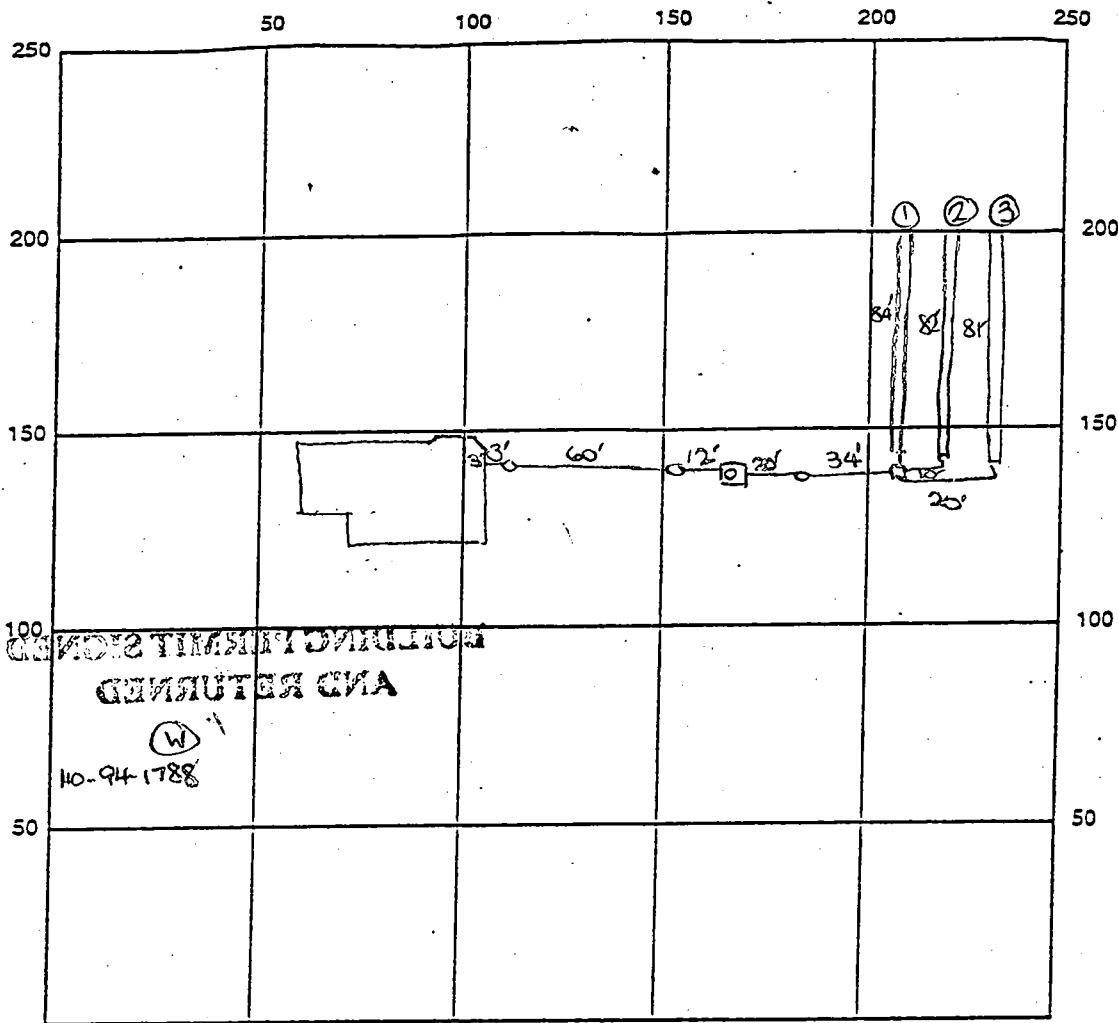
PERMIT VOID AFTER TWO YEARS

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.**



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

Frederick Road

SEPTIC TANK LEVEL OK CLEANOUTS 3 in line, one on s.t. manhole on s.t.

DISTRIBUTION BOX LEVEL OK - baffle in

DRAIN FIELD/TITLE DEPTH 4 FT. TRENCH WIDTH 3 FT. INLET DEPTH 2 FT.

EFFECTIVE GRAVEL DEPTH 2 FT. TOTAL LENGTH 282 FT. → 247

NUMBER OF TRENCHES 3 ONE SIDEWALL/BOTTOM AREA 741 SQ. FT.

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

ABSORBENT AREA — SQ. FT.

REMARKS: 8/10/99 FINAL INSP - OK to cover all work. DKS

DATE SYSTEM APPROVED 8/10/99

INSPECTOR Donna K. [Signature]

APPLICATION

PERCOLATION TESTING

A 59805-00

P _____

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

DISTRICT _____

DATE Feb. 4, 1998

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 Edward and Kathleen Curry Timothy W. Feaga

ADDRESS 15307 Frederick Road, Woodbine, MD 21797 PHONE _____

PROSPECTIVE BUYER Timothy W. Feaga

ADDRESS 3243 Bethany Lane, Ellicott City, MD 21042 PHONE 410-313-8808

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO 2

ROAD AND DESCRIPTION 13300 Frederick Road, West Friendship, MD 21794

TAX MAP 8 PARCEL # 187

SIZE OF LOT 25 TYPE BLDG SFD - 4 Bdrms
(SINGLE FAMILY DWELLING OR COMMERCIAL)

BLDG. PERMIT SIGNED
AND RETURNED 4-28-98
Serial # B70117551

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. _____
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING _____

HD-216

THIS IS NOT A PERMIT

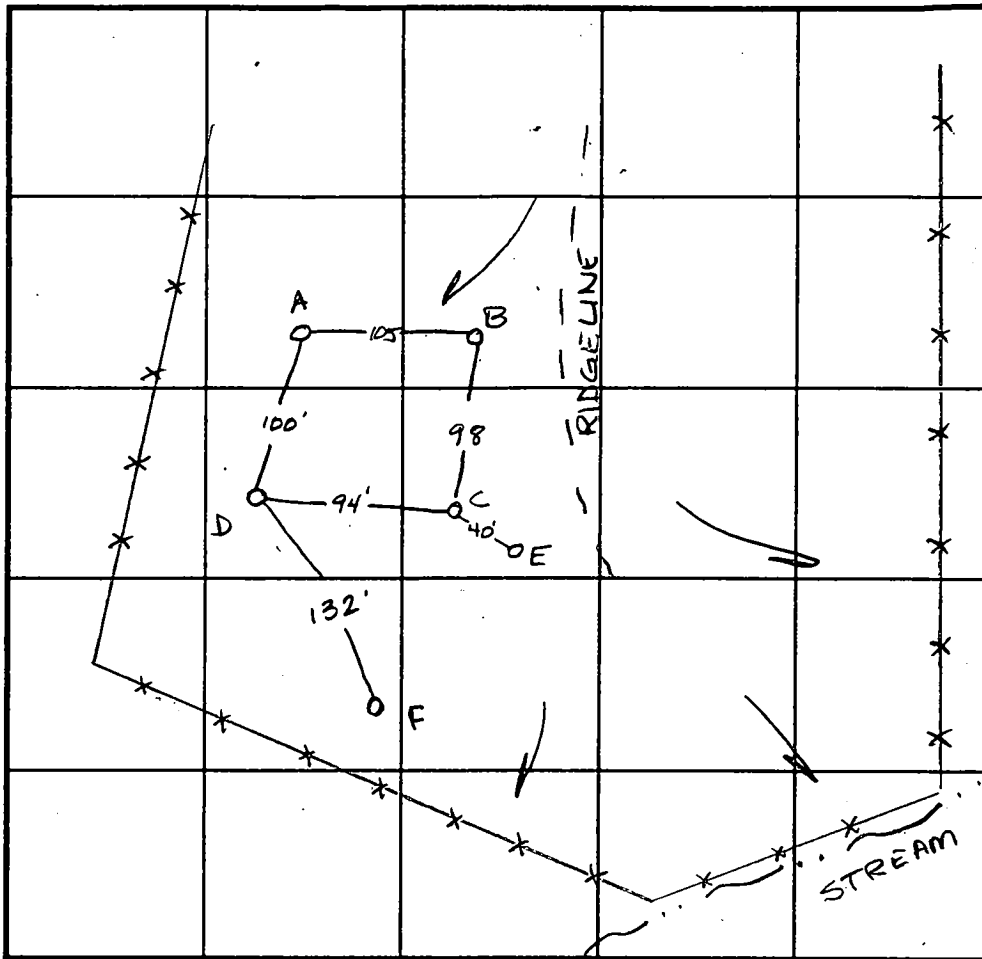
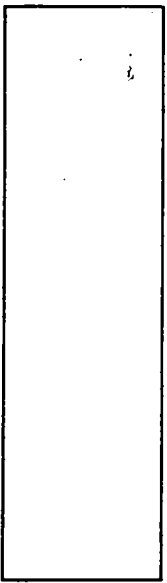
A 59805

COUNTY #

SOIL PROFILE
A, B, C, D

orange
yellow
silt/clm
orange
red
bright
w/ 10% Rx
& Mg
on Rx
faces

SOIL PROFILE



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
2-11-98	A	4.0 VII.0	2:17	2:19	2:19	2:22	3min	
	B	4.0 VII.0	2:11	2:13	2:13	2:15	2min	
	C	4.0 VII.0	2:06	2:07	2:07	2:09	2min	
	D	Visual only	- see profile				—	OK
	E	>50% Rx @ 6.0	- insufficient					
		depth to bedrock	—					F
	F	Water @ 5.0	- insufficient					
		depth to H ₂ O	—					F

REMARKS _____

TYPE OF SOIL _____

TESTED BY Amy McMillan ALSO PRESENT Tim Feaga

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 2min TRENCH WIDTH 3.0

INLET DEPTH 2.0 MAXIMUM BOTTOM DEPTH 4.0 SQ. FT./BEDROOM 1800

C 1 **4329** SEQUENCE NO. (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 **A59805B**

ST/CO USE ONLY
DATE RECEIVED
MM DD YY
8 13/

DATE WELL COMPLETED
MM DD YY
04 05 99
Depth of Well
22 200 26
(TO NEAREST FOOT)

PERMIT NO.
FROM "PERMIT TO DRILL WELL"
HO 94 1788

OWNER **Heritage Land Development**
STREET OR RFD **15307 ~~Frederick~~ Rd** TOWN **Lisbon**
SUBDIVISION **Curry Prop.** SECTION **1** LOT **Pal 187**

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	
Overburden	0	35	
Gray Rock	35	200	x
water at 167'			

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) **Y** **N**

TYPE OF GROUTING MATERIAL (Circle one)
CEMENT **CM** BENTONITE CLAY **BC**
NO. OF BAGS **9** NO. OF POUNDS **900**
GALLONS OF WATER **54**
DEPTH OF GROUT SEAL (to nearest foot)
from **0** ft. to **36** ft.
(enter 0 if from surface)

CASING RECORD

casing types insert appropriate code below
ST **CO**
STEEL CONCRETE
PL **OT**
PLASTIC OTHER
MAIN CASING TYPE **PL** Nominal diameter top (main) casing (nearest inch!) **6** Total depth of main casing (nearest foot) **40**

OTHER CASING (if used)
diameter inch depth (feet) from to
E A C H I N G

SCREEN RECORD

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

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.

DRILLER'S LIC. NO. **MW D 399**
DRILLER'S SIGNATURE **Wam Powell**
LIC. NO. **2W D 241**

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

DEPTH (nearest ft.)

E	8	9	11	15	17	21
A						
C	23	24	26	30	32	36
H						
S						
C	38	39	41	45	47	51
R						
E						
E						
N						

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)
TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

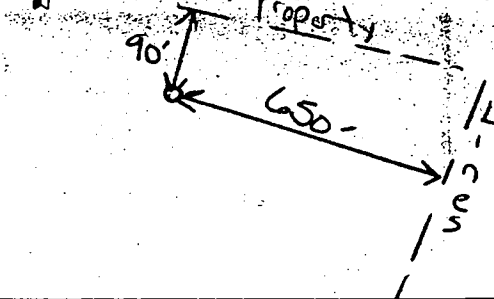
PUMPING TEST

HOURS PUMPED (nearest hour) **3**
PUMPING RATE (gal. per min.) **10.7**
METHOD USED TO MEASURE PUMPING RATE **Submersible**
WATER LEVEL (distance from land surface)
BEFORE PUMPING **24** ft.
WHEN PUMPING **112** ft.
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 INSTALLED PUMP YES **N**
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 } LAND SURFACE (nearest foot)
- below }

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



B 1 4616
070898

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND
PERMIT TO DRILL WELL
please print or type

STATE PERMIT NUMBER

HO-94-1788
fill in this form completely

Date Received (APA)
070898

OWNER INFORMATION

Heritage Land Development
3243 Bethany Lane
Ellicott City MD 21042

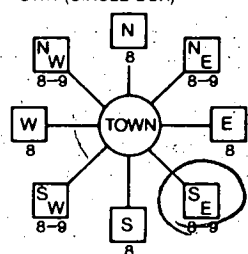
B 3 LOCATION OF WELL

Howard
Curry Property
Lisbon
MILES FROM TOWN (enter 0 if in town)

DRILLER INFORMATION

Paul M Fabuszak
Edgar Har Sons Corp
12047 Falls Rd Cockeysville 21030

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



15307 Frederick Rd
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
300
DISTANCE FROM ROAD
ENTER FT OR MI

B 2 WELL INFORMATION
APPROX. PUMPING RATE 5
AVERAGE DAILY QUANTITY NEEDED 750

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard County AS-9805-B
STATE SIGNATURE
DATE ISSUED 10/15/98
NORTH GRID 540 000 EAST GRID 780 000

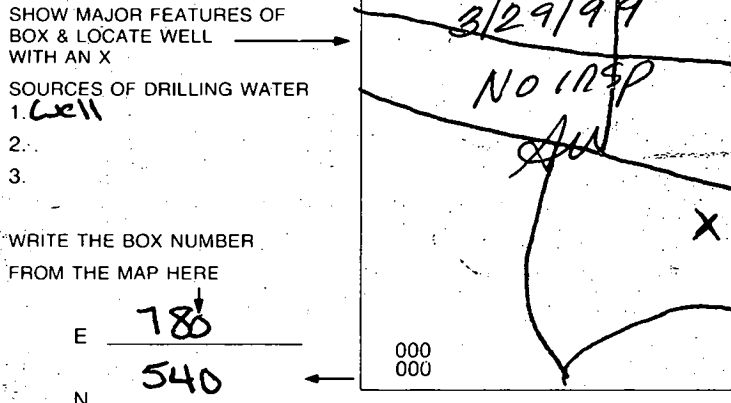
- USE FOR WATER (CIRCLE APPROPRIATE BOX)
D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
I INDUSTRIAL, COMMERCIAL, DEWATERING
P PUBLIC WATER SUPPLY WELL
T TEST, OBSERVATION, MONITORING
G GEO-THERMAL

APPROXIMATE DEPTH OF WELL 250 FEET
APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING (circle one)
AIRC-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary)
CABLE REVERSE-ROTary DRIVE-POINT

REPLACEMENT OR DEEPEINED WELLS (CIRCLE APPROPRIATE BOX)
N THIS WELL WILL NOT REPLACE AN EXISTING WELL
S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS

Not to be filled in by driller (MDE OR COUNTY USE ONLY)
APPROX. PERMIT NUMBER 54
PERMIT No. HO-94-1788



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

SPECIAL CONDITIONS
NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

8/10/99
Anytime
8/12/99 anytime

HOWARD COUNTY HEALTH DEPARTMENT
Bureau of Environmental Health
3525-H Ellicott Mills Drive
Ellicott City, MD 21043
461-9933

APPLICATION FOR PITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION

New Installation X
Replacement _____

Receipt # _____
Date _____

Name of Installer J.A. Smith & Co. Inc.

Telephone 410-796-7522

License Number 5531

Certified Well Pump Installer _____ Well Driller _____ Registered Plumber N

Name of Property Owner Timothy Feaga Telephone 410-313-8202

Subdivision _____ Lot # _____ Well Tag # HO-34-1228

Site Address 15211 Frederick Rd.

Pump	Motor	Pitless Adapter
1. Type	1. Horsepower <u>1/2 H.P.</u>	1. Make <u>Whisper</u>
a. Deep well jet _____	2. RPM <u>3450</u>	2. Model # <u>3102</u>
b. Shallow well jet _____	3. Voltage <u>2</u>	3. Depth _____
c. Submersible <u>✓</u>	a. 110 _____	
2. Make <u>Grundfos</u>	b. 220 <u>✓</u>	
3. Model # <u>SGS 05412</u>		
4. Capacity <u>5</u> GPM		
5. Pump exceeds well capacity Yes _____ No <u>✓</u>		
6. If Yes, is low pressure cutoff switch installed? Yes _____ No _____		
7. What methods are used to protect the pump and electrical wiring from vibrations? Torque arrestors <u>✓</u> Cable guards <u>✓</u> Other _____		

Tank
1. Capacity 32 Gal.
2. Pressure relief valve? 75 PSI

Piping
1. Type Black Poly
2. Size 2"
3. NSF and/or BOCA Code approved ✓
4. Depth of supply line 180'

Well data
1. Depth 200 ft.
2. Yield 107 GPM
3. Static water level 24 ft.
4. Well water supply be disinfected by installer? Yes

I understand that it is my responsibility to notify the Howard County Health Department when the installation is ready for inspection (otherwise this permit is null and void).

All information given above is true to the best of my knowledge.

8/12/99 - WPI ON (SRK)

Signature of Applicant: J. Allen Smith

Date: 8/16/99

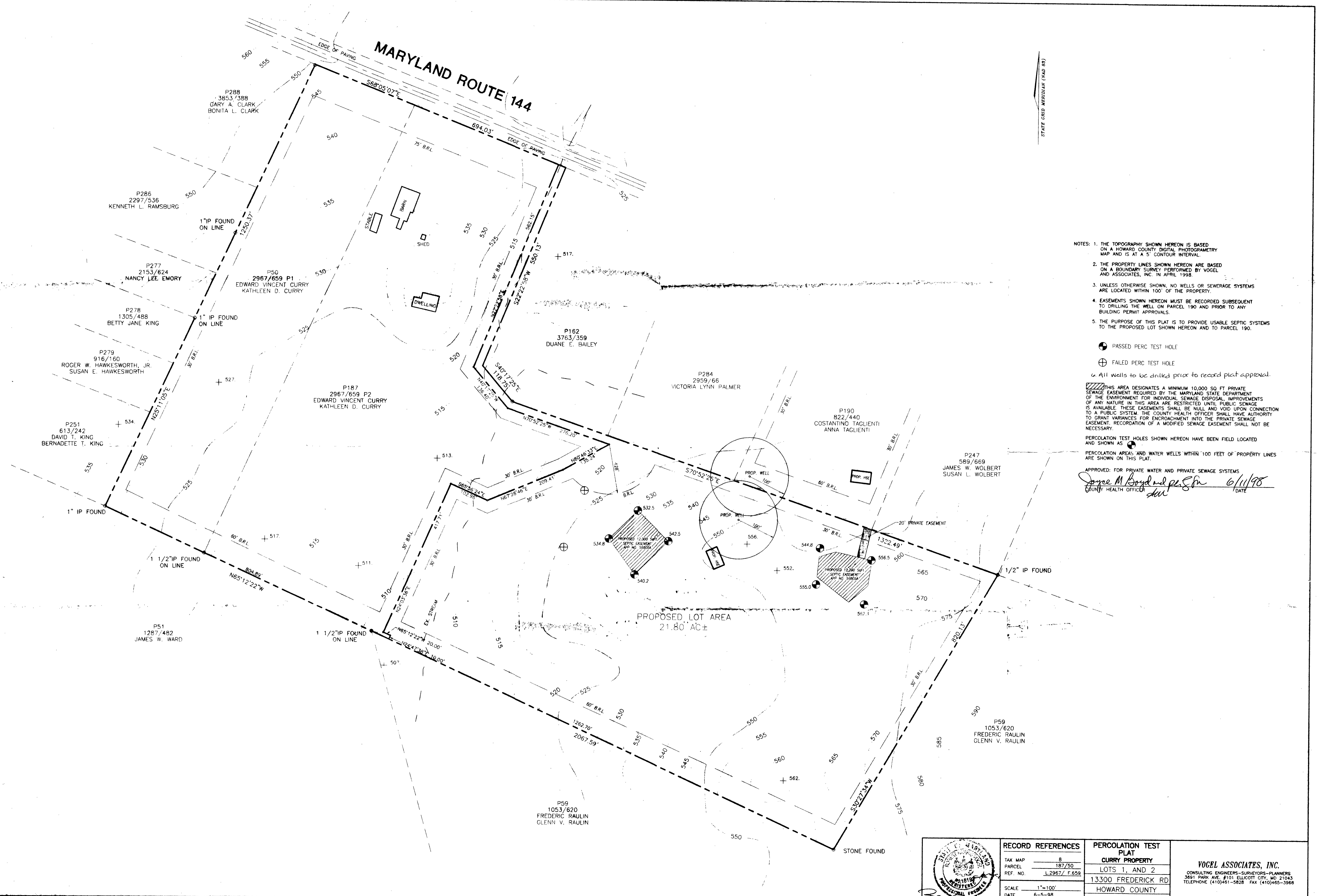
Note: A sticker indicating approval/status of the installation will be placed on the well casing at the time of the inspection.

HD-215 8/10/99 WPI Insp well line 3.5' below grade

*Notified installer } well casing 1' above grade.
he will correct and } Needs 2 piece well cap
call for re-insp. } Needs PVC conduit pipe

STATE GRID MERIDIAN (MAD 88)

MARYLAND ROUTE 144



- NOTES:
1. THE TOPOGRAPHY SHOWN HEREON IS BASED ON A HOWARD COUNTY DIGITAL PHOTOGRAMMETRY MAP AND IS AT A 5' CONTOUR INTERVAL.
 2. THE PROPERTY LINES SHOWN HEREON ARE BASED ON A BOUNDARY SURVEY PERFORMED BY VOGEL AND ASSOCIATES, INC. IN APRIL 1998.
 3. UNLESS OTHERWISE SHOWN, NO WELLS OR SEWERAGE SYSTEMS ARE LOCATED WITHIN 100' OF THE PROPERTY.
 4. EASEMENTS SHOWN HEREON MUST BE RECORDED SUBSEQUENT TO DRILLING THE WELL ON PARCEL 190 AND PRIOR TO ANY BUILDING PERMIT APPROVALS.
 5. THE PURPOSE OF THIS PLAT IS TO PROVIDE USABLE SEPTIC SYSTEMS TO THE PROPOSED LOT SHOWN HEREON AND TO PARCEL 190.

- ⊙ PASSED PERC TEST HOLE
- ⊕ FAILED PERC TEST HOLE
- ⊕ All wells to be drilled prior to record plat approval.

THIS AREA DESIGNATES A MINIMUM 10,000 SQ FT PRIVATE SEWAGE EASEMENT REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE EASEMENTS SHALL BE NULL AND VOID UPON CONNECTION TO A PUBLIC SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENT INTO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

PERCOLATION TEST HOLES SHOWN HEREON HAVE BEEN FIELD LOCATED AND SHOWN AS ⊙

PERCOLATION AREAS AND WATER WELLS WITHIN 100 FEET OF PROPERTY LINES ARE SHOWN ON THIS PLAT.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS
James M. Boyd *and* *Paul S. ...* 6/11/98
 COUNTY HEALTH OFFICER DATE

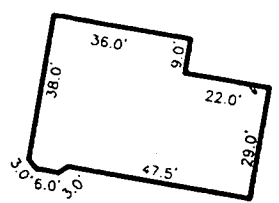
PROPOSED LOT AREA
 21.80 AC±



RECORD REFERENCES	
TAX MAP	8
PARCEL	187/50
REF. NO.	L.2967/F.659
SCALE	1"=100'
DATE	6-5-98

PERCOLATION TEST PLAT	
CURRY PROPERTY	
LOTS 1, AND 2	
13300 FREDERICK RD	
HOWARD COUNTY	
MARYLAND	

VOGEL ASSOCIATES, INC.
 CONSULTING ENGINEERS-SURVEYORS-PLANNERS
 5691 PARK AVE. #101 ELICOTT CITY, MD 21043
 TELEPHONE (410)461-5828 FAX (410)465-3968



FOUNDATION DETAIL
SCALE 1" = 50'

MARYLAND ROUTE 144

MD STATE GRID MERIDIAN (NAD 83)

P50
4426/561
EDWARD VINCENT CURRY
KATHLEEN E. CURRY

*7/27/99
House moved 40'
back but no impact
to well or septic
A.W.M.*

P162
3763/359
DUANE E. BAILEY

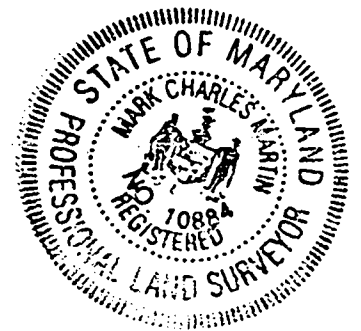
P284
2959/66
VICTORIA LYNN PALMER

P190
822/440
COSTANTINO TAGLIENTI
ANNA TAGLIENTI

P247
589/669
JAMES W. WOLBERT
SUSAN L. WOLBERT

I HEREBY CERTIFY THAT THE IMPROVEMENTS ARE LOCATED AS SHOWN HEREON AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, THERE ARE NO ENCROACHMENTS EXCEPT AS SHOWN.

Mark C. Martin 6/11/99
MARK C. MARTIN PROFESSIONAL LAND SURVEYOR NO. 10884



P51
1287/482
JAMES W. WARD

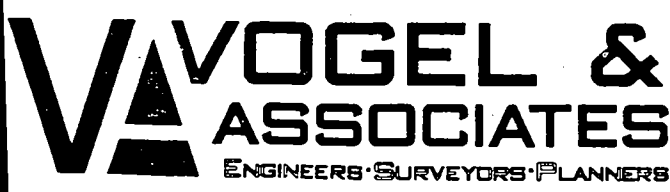
P187
4426/575
TIMOTHY WARFIELD FEAGA
KIMBERLY SUE ORWIG
21.8035 ACRES±

P59
1053/620
FREDERIC RAULIN
GLENN V. RAULIN

FOUNDATION ONLY
TOP OF WALL
ELEVATION = 555.47'
(SEE DETAIL)

LOCATION SURVEY

OF THE PROPERTY OF
TIMOTHY WARFIELD FEAGA
KIMBERLY SUE ORWIG
LIBER 4426 FOLIO 575
TAX MAP 8 PARCEL 187
FOURTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE 1" = 200' JUNE 11, 1999



3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel 410.461.5828 Fax 410.465.3966

P59
1053/620
FREDERIC RAULIN
GLENN V. RAULIN

Amy McMiller - Health

NOTES

Howard County Department of Health

1. Division prior to the start of work.

2. Installed according to the specifications with the 1994 MARYLAND EROSION AND SEDIMENT CONTROL REGULATIONS.

3. Permanent or temporary seeding for all perimeter areas, and all slopes greater than 5% on graded areas on the site.

4. And warning signs posted Chapter 7, HOWARD COUNTY REGULATIONS.

5. Time period specified above for seeding, sod, temporary seeding, with mulch alone shall be done or proper germination and establishment.

6. Place and are to be removed for their removal has been approved by the soil inspector.

TEMPORARY SEEDING

Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.

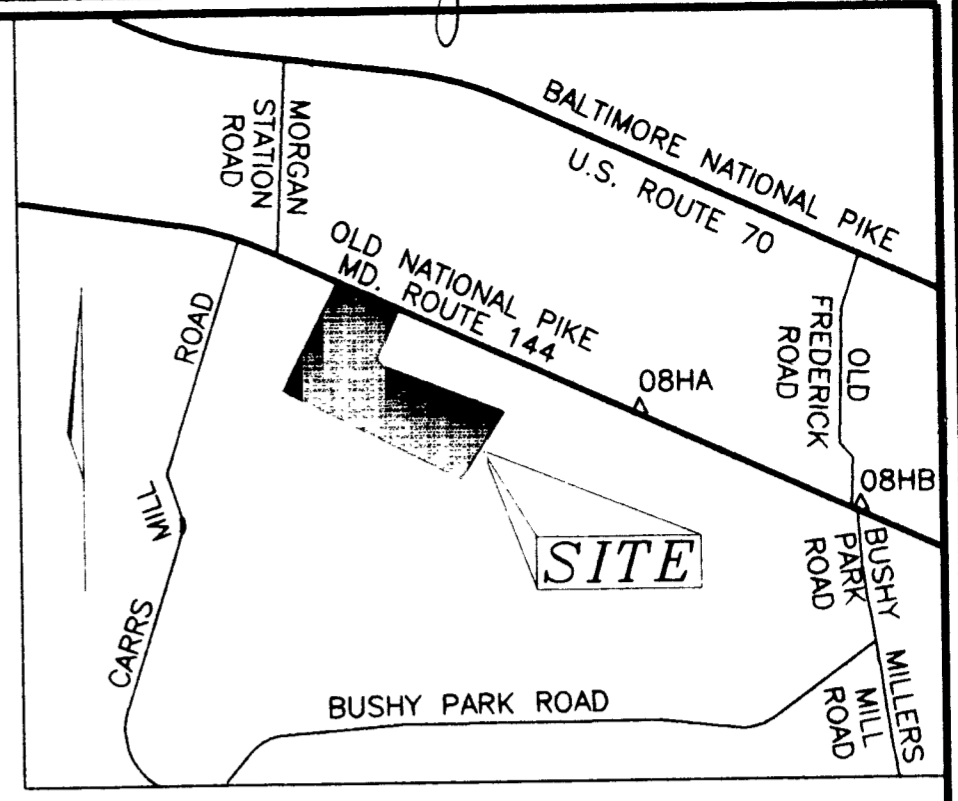
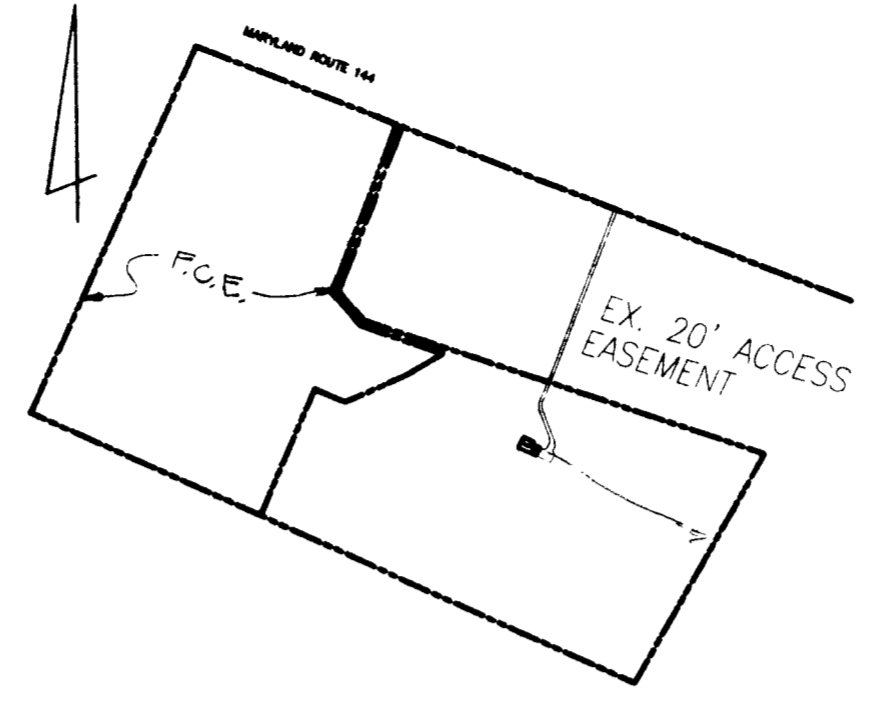
Seedbed Preparation: Loosen upper three inches of soil by raking, discing, or other acceptable means before seeding, if not previously loosened.

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.).

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per acre of annual rye (3.2 lbs./1000 sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs./1000 sq. ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well-anchored straw mulch, and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gal. per acre (8 gal./1000 sq. ft.) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.



AREA OF DISTURBANCE
SCALE: 1"=600'

VICINITY MAP
SCALE: 1"=2000'

0.60 acres
0.09 acres
0.51 acres
320 cu yds
320 cu yds

To be determined by contractor, with pre-approval of the Sediment Control Inspector.

grading activity for day of disturbance.

needed necessary by the

approval of the inspection of perimeter erosion by other earth disturbance or may not be authorized made.

three pipe lengths or that raking day whichever is shorter

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent, long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper 3 inches of soil by raking, discing, or other acceptable means before seeding, if not previously loosened.

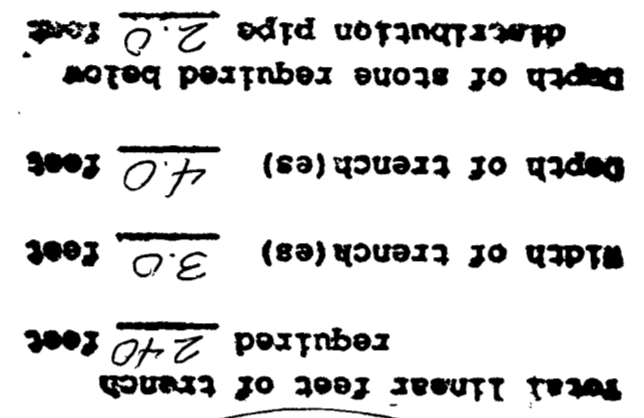
Soil Amendments: Use one of the following schedules:

- 1) Preferred- Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq. ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.) before seeding. Harrow or disc into upper 3 inches of soil. At time of seeding apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs./1000 sq. ft.)
- 2) Acceptable- Apply 2 tons per acre dolomitic limestone (92 lbs./1000sq. ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs./1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil.

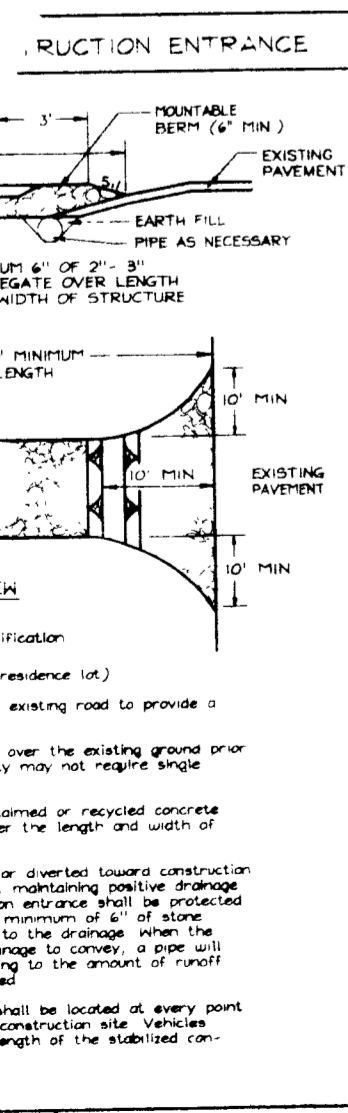
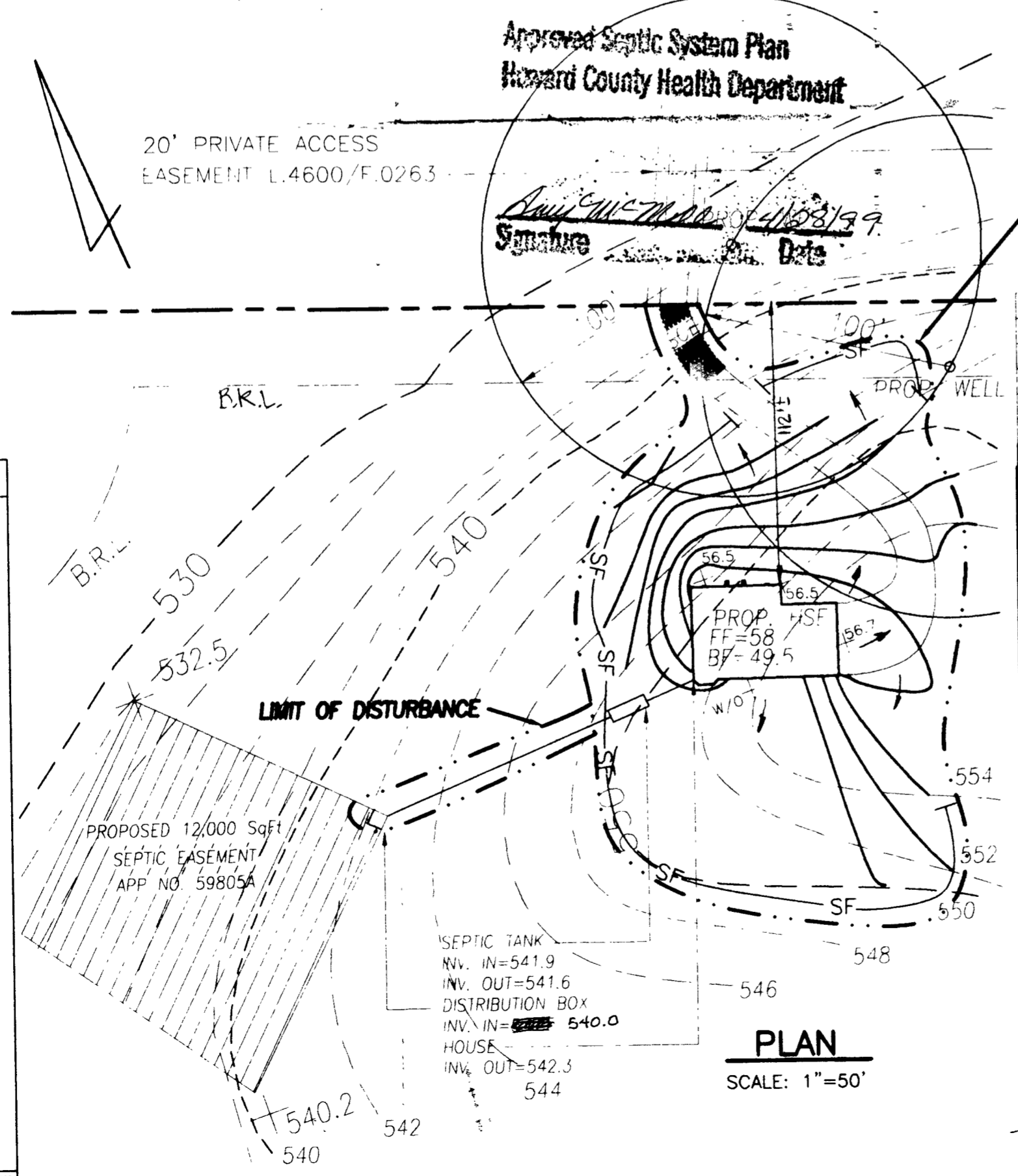
Seeding: For the periods March 1 thru April 30 and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs./1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. of Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (.05 lbs./1000 sq. ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option 1- 2 tons per acre of well-anchored straw mulch, and seed as soon as possible in the spring. Option 2- Use sod. Option 3- Seed with 60 lbs. per acre Kentucky 31 Tall Fescue, and mulch with 2 tons per acre well anchored straw.

Mulching: Apply 1 1/2 to 2 tons per acre (70-90 lbs./1000 sq. ft.) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal./1000 sq. ft.) for anchoring.

Maintenance: Inspect all seeded areas, and make needed repairs, replacements, and reseedings.



Lot Size: 21.87 Acres



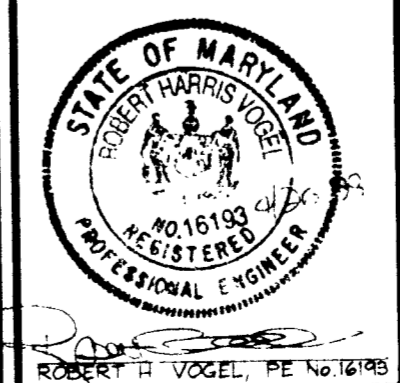
NO.	REVISION	DATE

PLOT PLAN
15211 FREDRICK ROAD

TAX MAP #8 PARCEL #187/50
4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

VOGEL & ASSOCIATES
ENGINEERS SURVEYORS PLANNERS

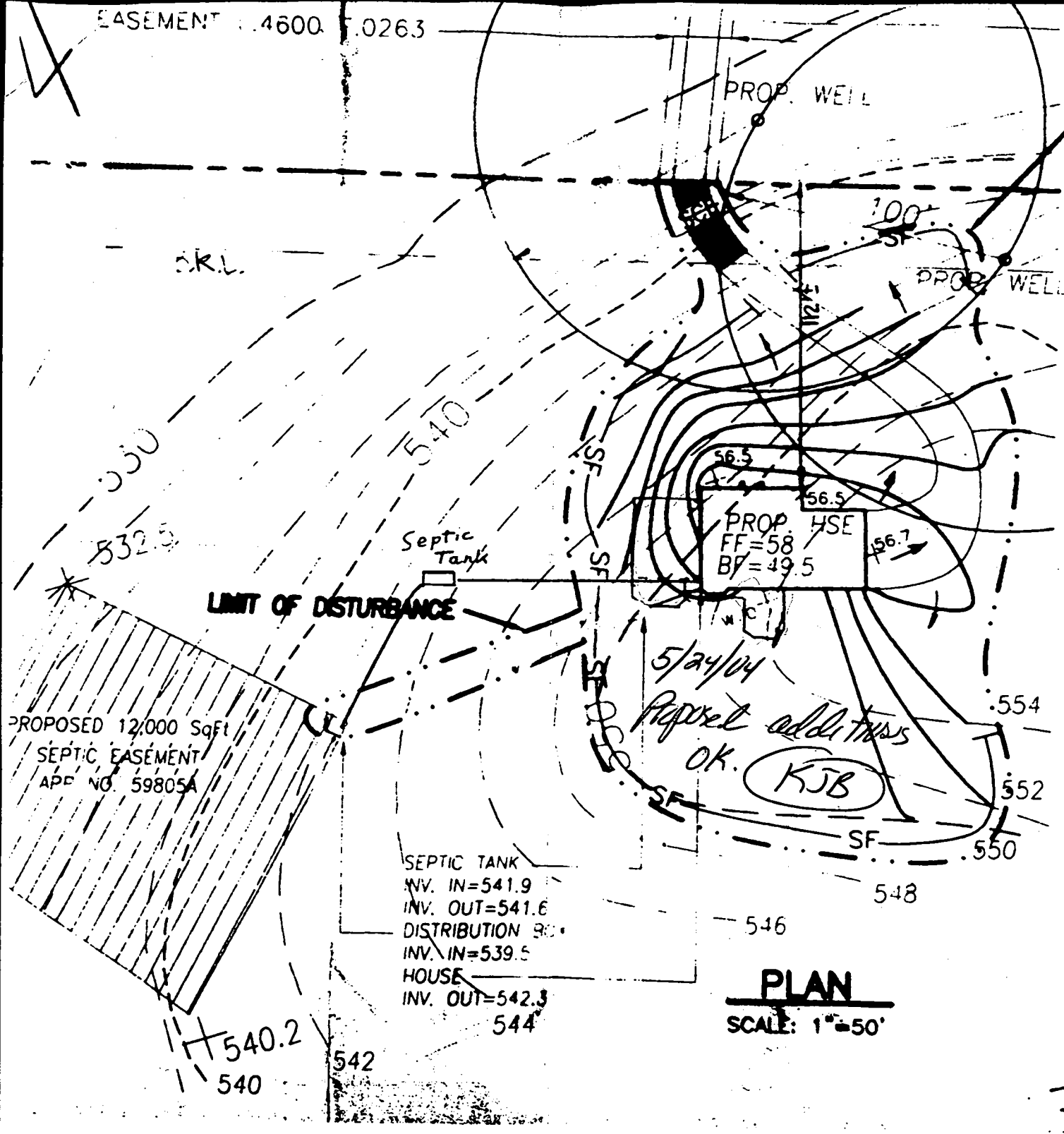
3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel 410.461.5828 Fax 410.465.3966



DESIGN BY: J.C.O.
DRAWN BY: G.M.S.
CHECKED BY: RHV
DATE: APRIL 26, 1999
SCALE: AS SHOWN
W.O. NO.: 98-14

1 SHEET OF 1

EASEMENT 4600 0263



NO.	REVISION	D.

PLOT PLAN

15211 FREDRICK ROAD

TAX MAP #8
4TH ELECTION DISTRICT

PARCEL #187/50
HOWARD COUNTY, MARYLA

PLAN
SCALE: 1"=50'

DESIGN BY: J.C.O.
 DRAWN BY: G.M.S.
 CHECKED BY: RHV
 DATE: APRIL 26, 1999
 SCALE: AS SHOWN
 W.O. NO.: 98-14