

LAYOUT 4/18/02 ~~2/22/02~~ 11:00 INSP 4 _____
 INSP 2 4/23/02 2:30 INSP 5 _____
 INSP 3 4/24/02 2:30 INSP 6 _____

ISSUE DATE: 3/11/2002 **PERMIT** RPS# P 516866-C

APPROVAL DATE: 4/24/02 **INDEXED** 337111 A 510571B

**ON-SITE SEWAGE DISPOSAL SYSTEM
 HOWARD COUNTY HEALTH DEPARTMENT
 BUREAU OF ENVIRONMENTAL HEALTH**

South Carroll Backhoe, Inc IS PERMITTED TO INSTALL ALTER

ADDRESS: 4410 Salem Bottom Road PHONE NUMBER: 410-875-4197

SUBDIVISION: Brantwood 3/1 MATTHEW FOX LOT NUMBER: 2

ADDRESS: 3043 Seneca Chief Trail PROPERTY OWNER: _____

SEPTIC TANK CAPACITY (GALLONS): 1250 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): N/A COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: 240

LINEAR FEET OF TRENCH REQUIRED: 320

TRENCHES:	Trench to be 3.0 feet wide. Inlet 3.5 feet below original grade. Bottom maximum depth 5.5 feet below original grade. Effective area begins at 3.5 feet below original grade. 2.0 feet of stone below distribution pipe.
LOCATION:	Place the distribution box as shown on the approved site plan. Run trenches on contour. Keep trenches 7' ETE (10' CTC to conserve future repair area)
NOTES:	Gravity basement service is not proposed.

PLANS APPROVED: SRK DATE: 1/29/02

- NOTE: PERMIT VOID AFTER 2 YEARS
- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED

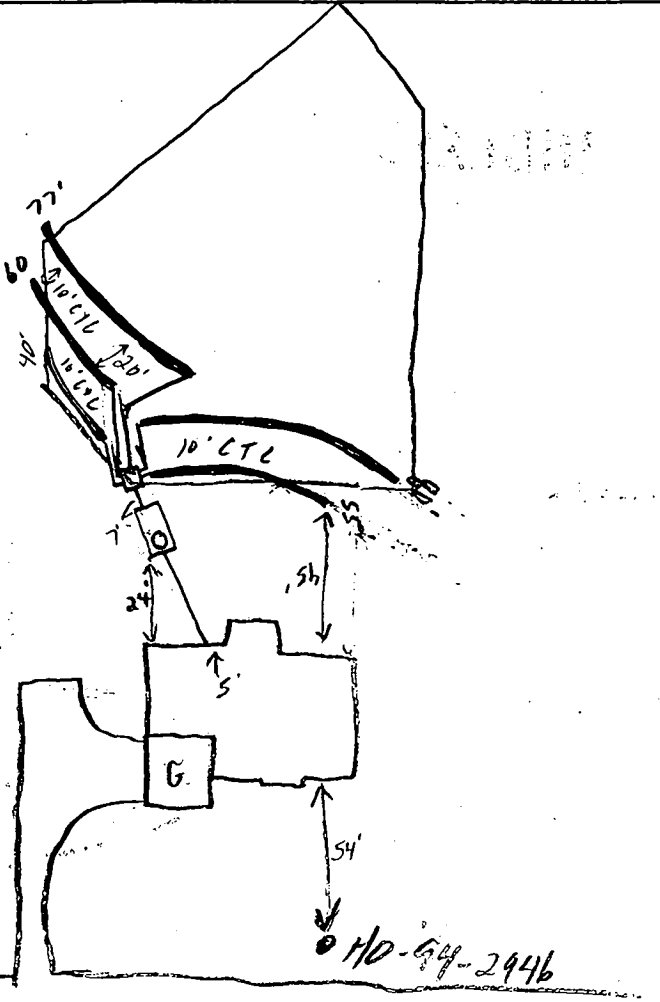
**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS
 RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM
 PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT
 ALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM**

**BUILDING PERMIT SIGNED
 AND RETURNED** 5/30/02

300136570 DECK + GAZEBO

A510571-B

NOT TO SCALE



Seneca Creek Trail

TRENCH DATA

TRENCH WIDTH 3'
 TRENCH INLET DEPTH 3.5'
 TRENCH BOTTOM DEPTH 5.5'
 DEPTH OF STONE 2'
 NUMBER OF TRENCHES 5
 TOTAL TRENCH LENGTH 312
 ABSORBENT AREA 936 #
 DISTRIBUTION BOX LEVEL
 BAFFLE IN DISTRIBUTION BOX

SEPTIC TANK DATA

SEPTIC TANK 1250 TS GALLONS
 MANHOLE RISER Front
 6 INCH INSPECTION PORT N/A

PUMP CHAMBER DATA

PUMP CHAMBER GALLONS N/A
 MANHOLE RISER N/A
 ALARM _____
 PUMP PERFORMANCE TEST _____

PRE-CONSTRUCTION INSPECTION: 4/18/02 Lot stake, contours as shown, layout per B.P. (SD)

INSPECTION COMMENTS: 4/23/02 Tank set, 1st (55') trench install in wrong direction, contr. says its on contour, 1/2 of 2nd trench dug next to 55', should be able to get 80'. On proper layout contours place 40' / 160' / 80' trenches w/ 40' up slope as much as possible. (SD) 4/24/02 All trenches installed, DR to cover all work (SD)

INSPECTOR Steve Peter

DATE SYSTEM APPROVED 4/24/02

BURIED TRENCH SYSTEM

NOTES:

1. Existing Zoning: RC
2. Property address: 3043 Seneca Chief Trail
3. The Limit of Disturbance was approved under GPO2-34
4. The proposed driveway for this lot shall be a minimum of 10' wide, 6" crusher run with 2-1/2" macadam surface.
5. The topography shown assumes proposed contours from the FO1-67 plan are existing.
6. Driveway Entrance per Howard County Volume IV Standard Detail R 6.06.

Total linear feet of trench required **320** feet
 Width of trench (as) **3** feet
 Depth of trench (as) **5.5** feet
 Depth of stone in red below distribution lines **2** feet

Basement Service by Gravity is not proposed.
 SEPTIC SYSTEM DESIGN DATA:
 1250

1. Invert at Foundation Wall: 491.5
2. 1500 Gallon Septic Tank (4 BR-Provide manhole to grade)
 Existing Ground over Tank: 493.7
 Proposed Grade over Tank: 493.7
 Invert In: 490.7
 Invert Out: 490.4
3. Distribution Box: (4 Outlets Minimum)
 Existing Ground Over Box: 493.3
 Proposed Grade Over Box: 493.3
 Invert In: 489.8

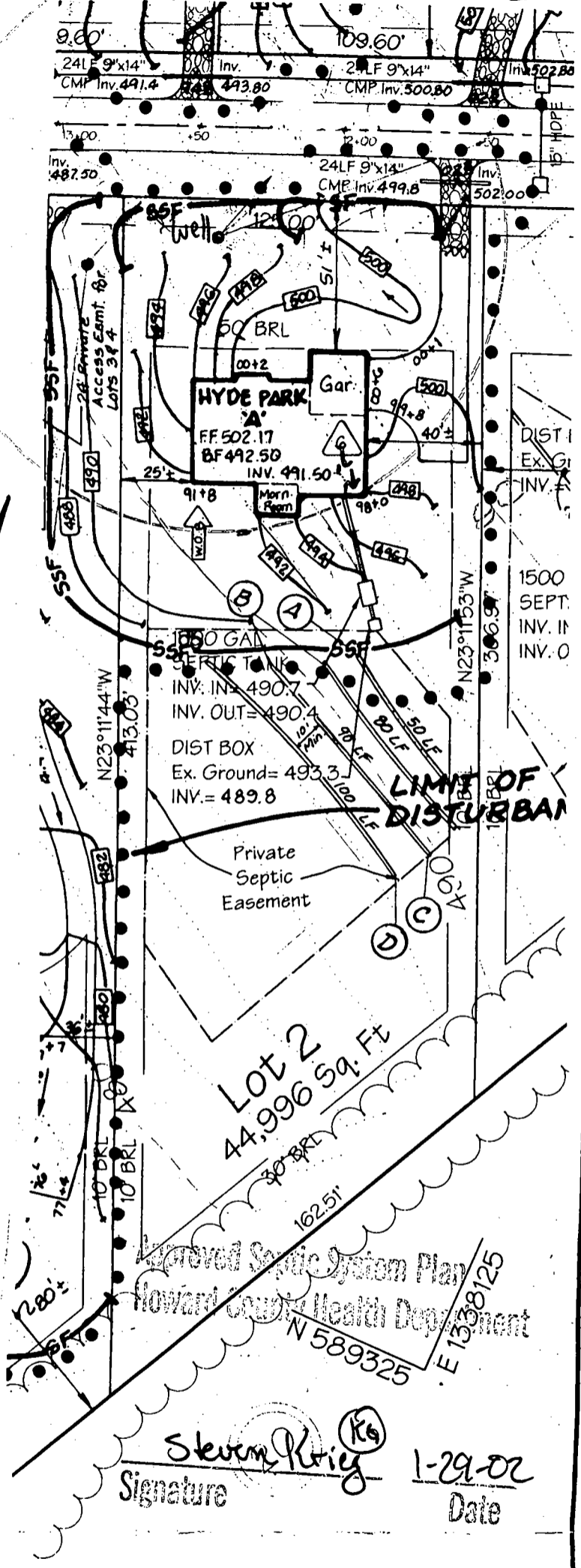
4. Trench Design:
 (Per Health Department Septic Specifications)
 240 = 180 SF per Bedroom x 4 Bedrooms = 720 SF
 960 = 720 SF ÷ 3 ft Trench Width
 = 240 LF of Trench REQ.
 320

	(A)	(B)	(C)	(D)
Ex. Ground over Trench:	492.00	490.80	489.50	488.50
Invert Trench:	488.50	487.30	486.00	485.00
Bottom Trench:	486.50	485.30	484.00	483.00
Length of Trench:	50LF	80LF	90LF	100LF
Width of Trench:	3Ft.	3Ft.	3Ft.	3Ft.

NOTE: Trench Design may be revised at time of Installation based on site conditions.

Trenches to be 7'ETE
 10'CTC

(EX. 50' R/W)
SENECA CHIEF TRAIL



Approved Septic System Plan
 Howard County Health Department
 N 589325 E 1338125

Signature: *Steven Krieg* (K6)
 Date: 1-29-02

LDE, Inc.
 9250 Rumsey Road, Suite 100
 Columbia, Maryland
 (410)715-1070 - (301)598-3424 - Fax(410)715-9540

Title: REVISION (A) TO GPO2-34 BRANTWOOD SECTION 3 AREA 1 LOT 2		
Date: 12/5/01	Drawn: LDE	
Scale: 1" = 50'	LDE Job No.:	Sheet: 1 OF 1

C1 8256

SEQUENCE NO. (MDE USE ONLY)

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

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

COUNTY NUMBER 510571B PERMIT NO. FROM "PERMIT TO DRILL WELL" Hb-94-2946

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

DATE WELL COMPLETED MM DD YY 03-27-01

DEPTH OF WELL 22750' (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" Hb-94-2946

OWNER BRANTWOOD LLC STREET OR RFD Sereca Chief Trail TOWN ETI SUBDIVISION Brantwood SECTION 3/1 LOT 2

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries like Brown & Brown, Orange Tan Silt Soil, Weathered Orange Tan Rock, Soft Gray Rock, Med Hard Gray & Green & White mica Rock & Limestone.

GROUTING RECORD section including: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CEMENT CM, BENTONITE CLAY BC), NO. OF BAGS 14, NO. OF POUNDS 310, GALLONS OF WATER 84, DEPTH OF GROUT SEAL from 0 to 49 ft.

CASING RECORD section including: casing types insert appropriate code below (ST STEEL, CO CONCRETE, PL PLASTIC, OT OTHER), MAIN CASING TYPE PL, Nominal diameter top (main) casing 6", Total depth of main casing 49'.

OTHER CASING (if used) section with columns for diameter (inch) and depth (feet).

SCREEN RECORD section including: screen type or open hole (ST STEEL, BR BRASS, HO OPEN HOLE, PL PLASTIC, OT OTHER).

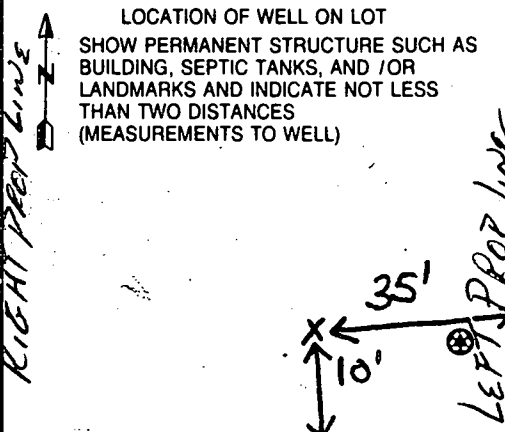
DEPTH (nearest ft.) section with a vertical scale from 0 to 21 feet, showing 49' and 250'.

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) section with fields for TELESCOPE CASING, LOG INDICATOR, and OTHER DATA.

PUMPING TEST section including: HOURS PUMPED 3, PUMPING RATE 5.5, METHOD USED WATER & BUCKET, WATER LEVEL BEFORE PUMPING 241 ft, WHEN PUMPING 209 ft, TYPE OF PUMP USED submersible.

PUMP INSTALLED section including: DRILLER INSTALLED PUMP YES, TYPE OF PUMP INSTALLED, CAPACITY: GALLONS PER MINUTE, PUMP HORSE POWER, PUMP COLUMN LENGTH, CASING HEIGHT above land surface 2'.



NUMBER OF UNSUCCESSFUL WELLS: 0, WELL HYDROFRACTURED YES (Y), CIRCLE APPROPRIATE LETTER (A, E, P).

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...

DRILLERS LIC. NO. 1 M Wb 355, DRILLERS SIGNATURE (Must match signature on application)

LIC. NO. 1 M Wb D 546, SITE SUPERVISOR (Sign. of driller or journeyman responsible for sitework if different from permittee)

150-0810

EMERGENCY/TEMP NO. IF ANY

B 1 03007

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

STATE PERMIT NUMBER

Ho-94-2946

1/16/01 Date Received (APA)

W514 7.45 NICK LI PARINI

please print or type

fill in this form completely

OWNER INFORMATION BRANTWOOD L.L.C. 8835-P Columbia 100 Parkway Columbia MD 21045

LOCATION OF WELL Howard BRANTWOOD SECTION 3 LOT 2 mayfield

DRILLER INFORMATION Michael Barlow MW D355 Michael Barlow Well Drilling Inc 502 Underwood Lane Bel Air Md

MILES FROM TOWN 2.1 DIRECTION OF WELL FROM TOWN (CIRCLE BOX) ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) 30

WELL INFORMATION APPROX. PUMPING RATE 5 APPROX. DAILY QUANTITY NEEDED 500

USE FOR WATER (CIRCLE APPROPRIATE BOX) DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL HOWARD CO A510571B

APPROXIMATE DEPTH OF WELL 300 FEET

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X 3/27/01 X 10:00

APPROXIMATE DIAMETER OF WELL 6 INCH

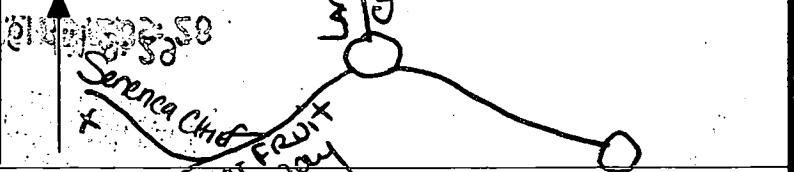
METHOD OF DRILLING (circle one) AIR-ROtary AIR-PERcussion ROTARY

SOURCES OF DRILLING WATER 1. 2. 3. WRITE THE BOX NUMBER FROM THE MAP HERE E 820 N 520

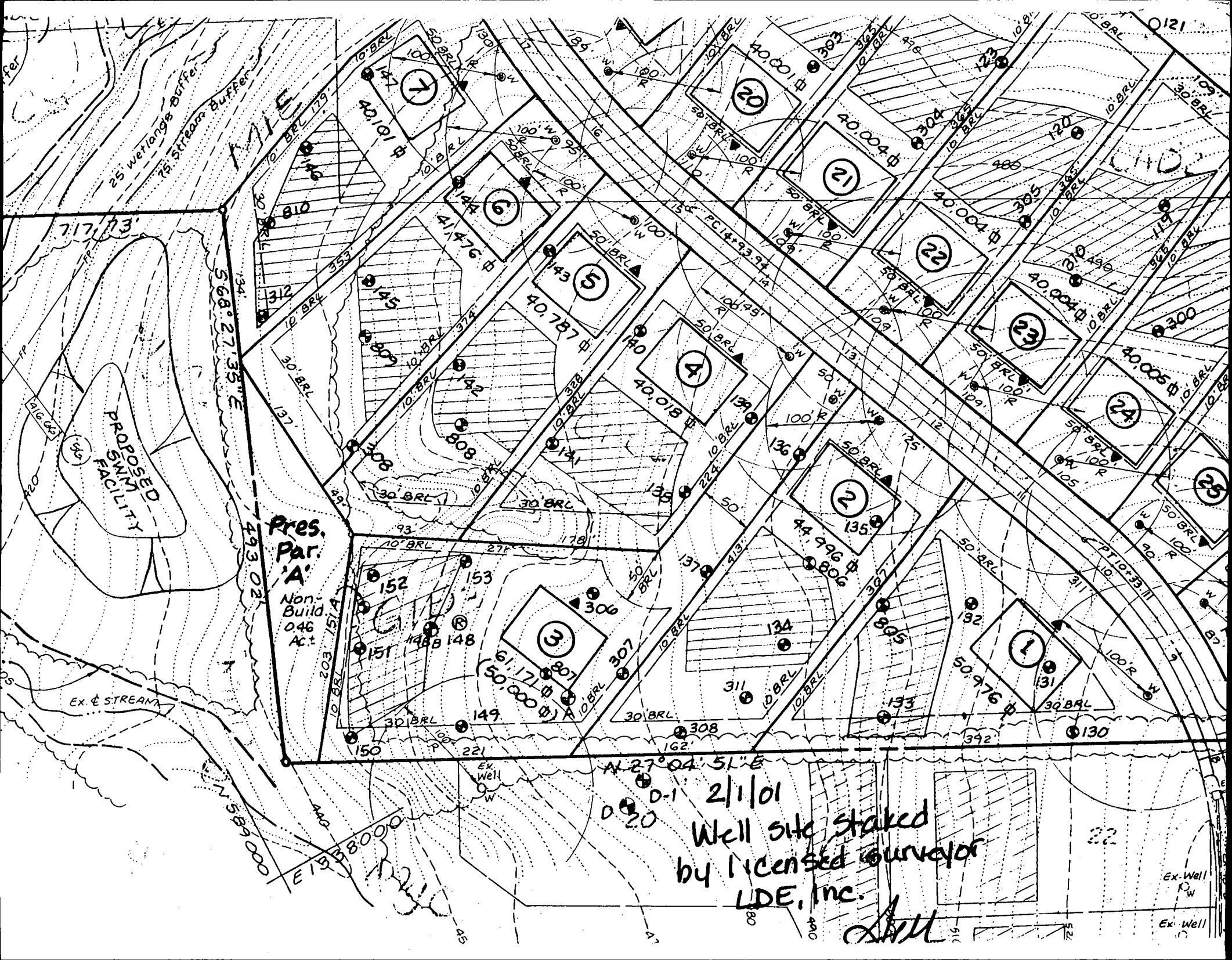
REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) THIS WELL WILL NOT REPLACE AN EXISTING WELL

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

Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER Ho 98 GAP 60032 PERMIT No. Ho 94-2946



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



Pres. Par. 'A'
Non-Build.
0.46
Ac.

PROPOSED
FAMILY
FACILITY

Well site staked
by licensed surveyor
LDE, Inc.

Bill

N 27° 04' 51" E
0-1 2/1/01
0-20

Ex. Well
R_W
Ex. Well

APPLICATION

PERCOLATION TESTING

A 510571M

P _____

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

DISTRICT _____

DATE 7/17/98

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 George A. Garbutt

ADDRESS 11363 Frederick Rd., Ellicott City, MD 21042 PHONE _____

AGENT OR PROSPECTIVE BUYER Heritage Land Development

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

PROPERTY LOCATION:

SUBDIVISION Brantwood II LOT NO. 1832

ROAD AND DESCRIPTION 11363 Frederick Road, Ellicott City, MD 21042

TAX MAP 16 PARCEL # 172

SIZE OF LOT 1 acre TYPE BLDG. SFD
(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. _____ ✓

(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

510571 M

COUNTY #

SOIL PROFILE

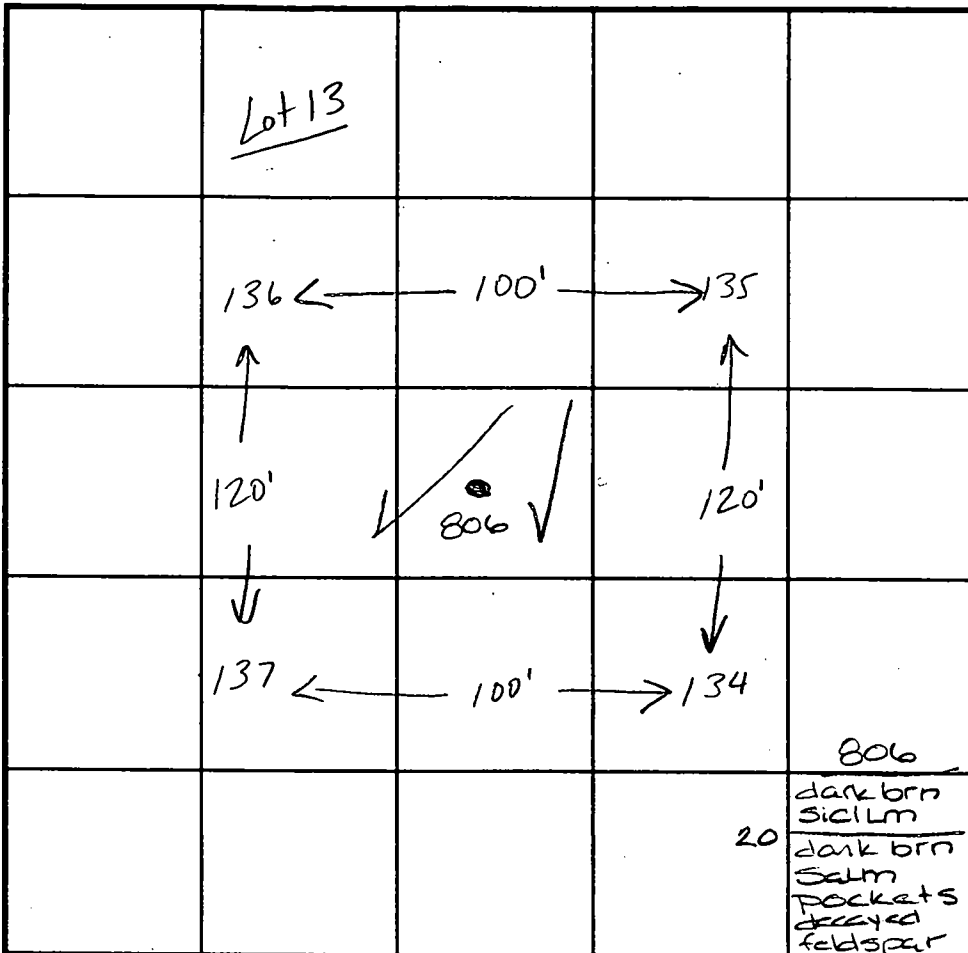
0' 137
 Orange cl lm
 3.5'
 brown / orange siltm
 quartz frags at 8.0'
 12'

136

orange cl lm
 3'
 brown orange siltm
 10% shale frags
 ↓
 12.5'

135

Same as test hole #136
 12'



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE. 15010 mca

SOIL PROFILE 134

0' orange brown cl lm
 3'
 tan / brown siltm
 mica flecs
 10% shale
 11.5'

308

orange / br cl lm
 3'
 orange / red siltm
 10% shale mica flecs
 11.5'

806

20

dark brn siltm
 dark brn siltm
 pockets of feldspar

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8-20-98	137	12.0' D	visual	only - ok	see profile		
	136	3.0' S	12:39	12:41	12:41	12:49	308
		12.5' D	visual	ok - see profile			
	135	12.0' D	visual	only - ok	see profile		
	134	3.0' S	12:47	12:53	12:53	1:16	40
		11.5' D	visual	ok - see profile			
	308	11.5' D	visual	only - ok	see profile		
	311	11.5' D	visual	ok - same as	308		
11-8-99	806	Visual to 12.0	see profile - ok				

REMARKS test holes staked by surveyor

TYPE OF SOIL _____
 TESTED BY Kim Maiste ALSO PRESENT Tim Feaga
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 16 minutes TRENCH WIDTH 3
 INLET DEPTH 3.5 MAXIMUM BOTTOM DEPTH 5.5 SQ. FT./BEDROOM 240

510571N

COUNTY #

SOIL PROFILE

0'
3'
11.5'

orange/brown
cl 1m

orange/red
silt 1m
10% shale
frags
mica flecks

307

Same
as
hole
306

807

3.0'

dark brown
silt 1m

dark brown
salm
20% feldspar

SOIL PROFILE

--

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
	306	11.5'D	visual	only - ok	see	profile	
	307	11.5'D	visual	only - ok	see	profile	
11-8-99	807	See profile					OK

REMARKS test holes staked

TYPE OF SOIL

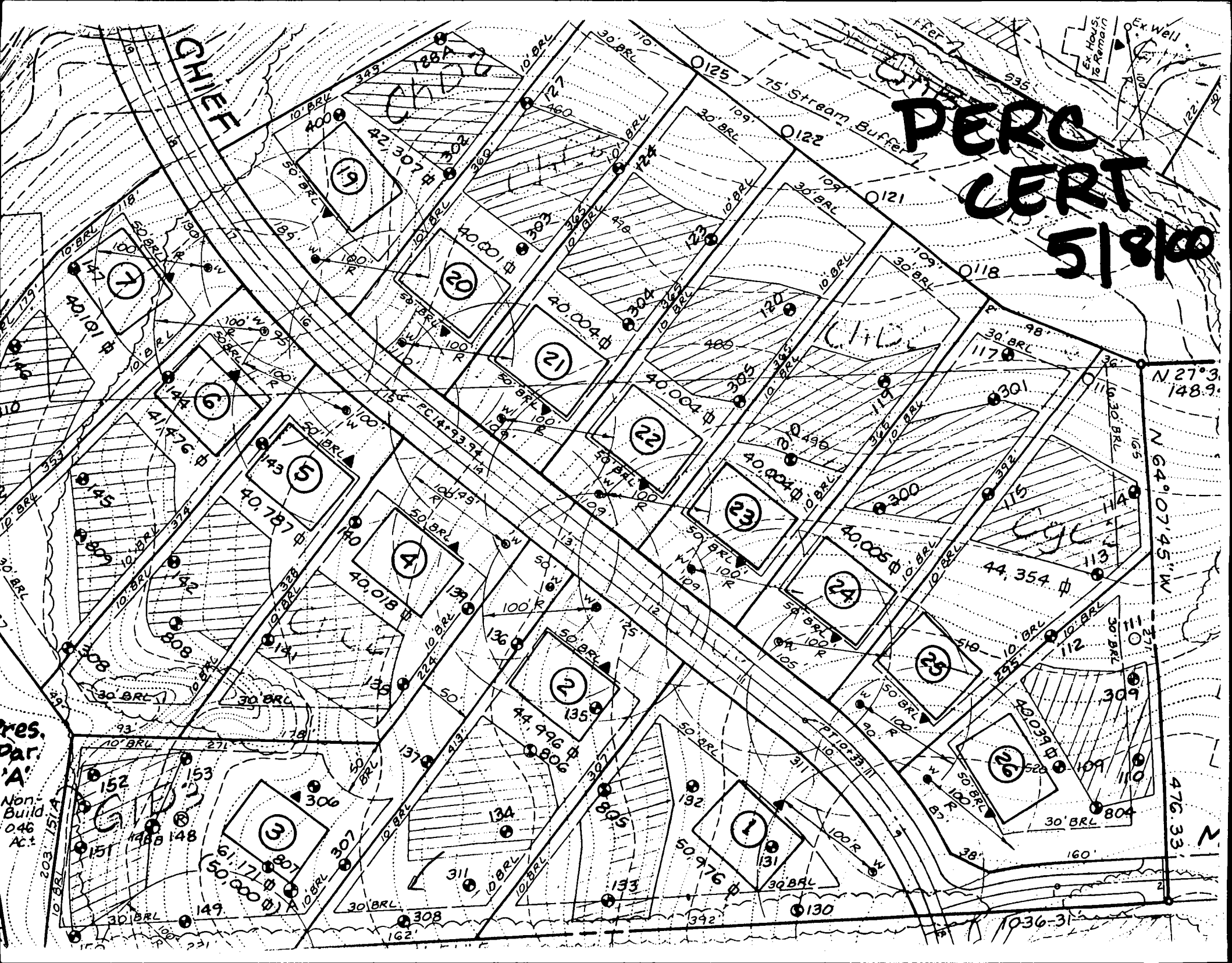
TESTED BY Kim Maiste

ALSO PRESENT Tim Feaga

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME TRENCH WIDTH

INLET DEPTH MAXIMUM BOTTOM DEPTH SQ. FT./BEDROOM

2.0



**PERC
LERT
5/8/00**

CHIEF

75' Stream Buffer

res.
par.
'A'
Non-
Build
046
Ac.

Ex. Hours
to Remain

N 27° 3' 148.9'

N 64° 07' 45" W

476.33

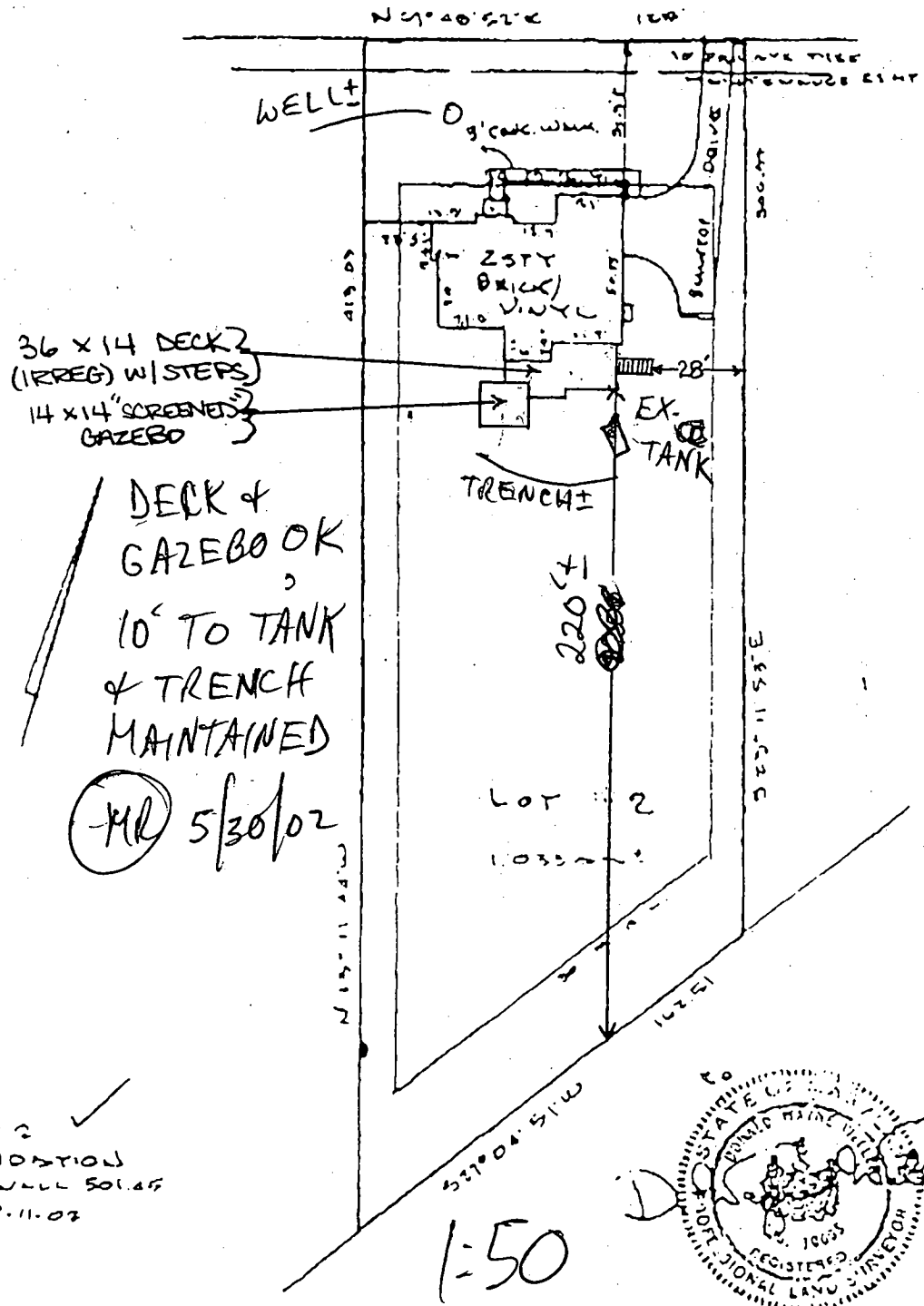
1036-31

PROPERTY KNOWN AS: LOT 2
 "SUNSETWOOD"
 SECTION THREE AREA ONE SHEET 2 OF 7
 LOCAL 14 PRESERVATION DISTRICT
 7th ELECTION DISTRICT
 HOWARD COUNTY, MD
 PLAT 14872

THIS PLAT CAN NOT BE USED TO ESTABLISH
 PROPERTY LINES OR CORNERS.

FOX - LANE - 5/4

SENEGA CHIEF TRAIL



DECK &
 GAZEBO OK
 10' TO TANK
 & TRENCH
 MAINTAINED

MR 5/30/02

LOT 2 ✓
 FOUNDATION
 TOP WALL SOLID
 2-11-02



LOCATION DRAWING

FINAL 5/6/02

CERTIFICATION	SEAL	SCALE 1" = 50'	DATE 2-24-02
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This is to certify that I have surveyed the property shown as: 2045
SENEGA CHIEF TRAIL

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 for Fences, Garages, Buildings, or other Existing or Future Improvements.



LDE Inc.
 9250 Rumsey Road Suite 106
 Columbia, Maryland 21045
 (410) 715-1070 (Balt.)
 (301) 596-3424 (Wash)
 (410) 715-9540 (Fax)

Building Address 3043 SENECA CHIEF TRAIL
ELLICOTT CITY MD 21042

Suite/Apt. # _____ SDP/WP/Petition # _____

Census Tract 6030 Subdivision BRANTWOOD

Section 3 Area 1 Lot 2

Tax Map 16 Parcel 441 Grid 21

Zoning R10EP Map Coordinates 11A6 Lot size _____

Property Owner's Name MATTHEW & COLLEEN FOX
 Address 3043 SENECA CHIEF TRAIL
 City ELLICOTT CITY State MD Zip Code 21042

Home Phone 410-730-6692 Work Phone 410-508-2735
 Applicant's Name & Mailing Address, (if other than stated hereon): _____

Phone _____ Fax _____

Existing Use SFD
 Proposed Use SFD W/ DECK & STEPS & GAZEBO
 Estimated Construction Cost \$ 12000

Description of Work 36 X 14 DECK (12 REG)
W/ STEPS & 14 X 14 SCREENED GAZEBO

Contractor Company RWS CONTRACTING, INC
 Contact Person RAY STEWARD
 Address 8216 BURNLEY RD
 City TOWSON State MD Zip Code 21284
 License No. 32425
 Phone 410-444-0809 Fax SAME

Occupant or Tenant _____
 Contact Name SAME AS OWNER
 Address _____
 City _____ State _____ Zip Code _____
 Phone _____ Fax _____

Engineer or Architect Company _____
 Contact Person N/A
 Address _____
 City _____ State _____ Zip Code _____
 Phone _____ Fax _____

BUILDING DESCRIPTION - COMMERCIAL

BUILDING DESCRIPTION - RESIDENTIAL

Building Characteristics
 Height: _____
 No. of stories: _____

Utilities
 Water Supply: _____
 Public _____
 Private _____

Building Characteristics
 SF Dwelling SF-Pownhouse
 Depth _____ Width _____
 1st floor: _____

Utilities
 Water Supply _____
 Public
 Private _____

Use group: _____
 Construction type:
 Reinforced Concrete
 Structural Steel
 Masonry
 Wood Frame
 State Certified Modular

Electric Yes No
 Gas Yes No
 Heating System:
 Electric Oil
 Natural Gas
 Propane Gas
 Sprinkler system: N/A
 Full _____
 Partial _____
 Other Suppression _____
 # of Heads _____

Finished Basement Unfinished Basement
 Crawl space Slab on Grade
 No. of Bedrooms _____

Multi-family dwellings:
 No. of efficiency units: _____
 No. of 1 BR units: _____
 No. of 2 BR units: _____
 No. of 3 BR units: _____

Other Structure: DECK W/ STEPS
 Dimensions: 36 X 14 12 REG
 Footings: POST & RISER
 Roof: CRUISED 14 X 14

Electric: Yes No
 Gas: Yes No
 Heating System:
 Electric Oil
 Natural Gas
 Propane Gas
 Sprinkler system: N/A
 NFPA #13D _____
 NFPA #13R _____
 Other _____

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature [Signature] Print Name RAY STEWARD
 Title/Company RWS CONTRACTING, INC. Date 5-30-02
 Checks payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY
 ** PLEASE WRITE NEATLY AND LEGIBLY **