

LAYOUT 5/24/02 ~~10/20~~ AM+later INSP 4 _____
 INSP 2 5/28/02 2:00 INSP 5 _____
 INSP 3 5/30/02 1:30 INSP 6 _____

ISSUE DATE: 5/10/2002

P 516969

APPROVAL DATE: 5/30/02

A 510571L

**PERMIT
INDEXED**

RPS#
337219

**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 LOT NUMBER: 11
 ADDRESS: 3048 Seneca Chief Trail PROPERTY OWNER: NVR
 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: 180
 LINEAR FEET OF TRENCH REQUIRED: 240 HOUSE SERVED BY PUBLIC WATER

TRENCHES:	Trench to be 3.0 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:	Place distribution box as shown on approved site plan. Run trenches on contour.
NOTES:	

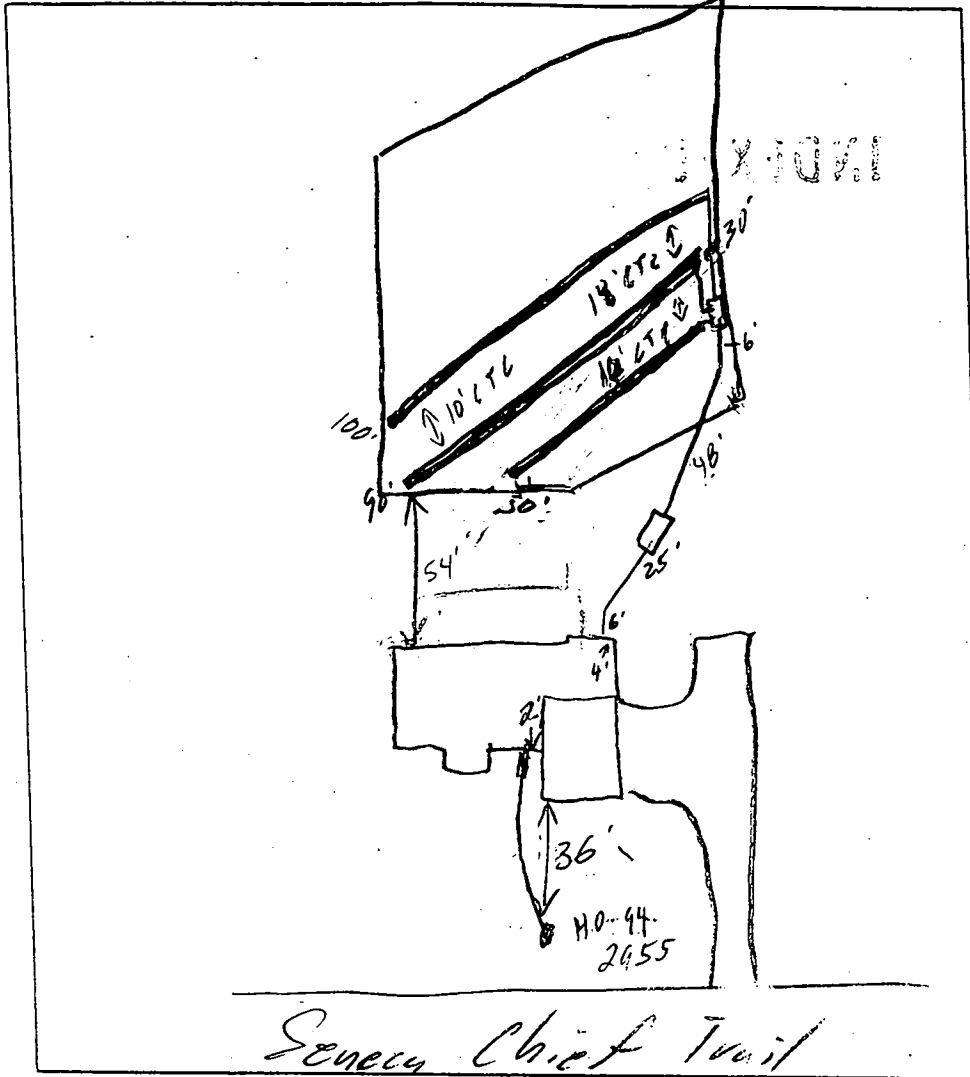
PLANS APPROVED: SRK OK 3/20/02 (SD) DATE: 3/7/02

NOTES: PERMIT VOID AFTER 2 YEARS
 CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
 WATERTIGHT SEPTIC TANKS REQUIRED
 ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED
 MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED
 CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE REGULATIONS, GUIDELINES AND THE TERMS OF THIS PERMIT

**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**

A510571-L

NOT TO SCALE



TRENCH DATA	
TRENCH WIDTH	3'
TRENCH INLET DEPTH	2'
TRENCH BOTTOM DEPTH	4'
DEPTH OF STONE	2'
NUMBER OF TRENCHES	3'
TOTAL TRENCH LENGTH	240'
ABSORBENT AREA	720 sq
DISTRIBUTION BOX LEVEL	<input checked="" type="checkbox"/>
BAFFLE IN DISTRIBUTION BOX	<input checked="" type="checkbox"/>

SEPTIC TANK DATA	
SEPTIC TANK	1500 75 GALLONS
MANHOLE RISER	Center
6 INCH INSPECTION PORT	<input checked="" type="checkbox"/>
PUMP CHAMBER DATA	
PUMP CHAMBER GALLONS	
MANHOLE RISER	<i>MP</i>
ALARM	
PUMP PERFORMANCE TEST	

Seneca Chief Trail

PRE-CONSTRUCTION INSPECTION: 5/24/02 Layout per B.P. - 10' CTC (SD)

House changed

INSPECTION COMMENTS: 5/24/02 Tanks set (SD) 5/28/02 1st trench installed,
 2nd trench (90') dug - backhoe broke (SD) 5/29/02 Cont. pour
 2nd trench left open, no stone (SD) 5/30/02 OK to cover all
 work (SD)

INSPECTOR *Justin B...*

DATE SYSTEM APPROVED 5/30/02

Total linear feet of trench required 240 feet

Width of trench(es) 3 feet

Depth of trench(es) 4 feet

Depth of stone required below distribution pipe 2 feet

NOTES:

1. Existing Zoning: RC
2. Property address: **3048 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 FOI-67 plan are existing.
6. Driveway Entrance per Howard County Volume IV Standard Detail R 6.06.

Approved Septic System Plan
Howard County Health Department

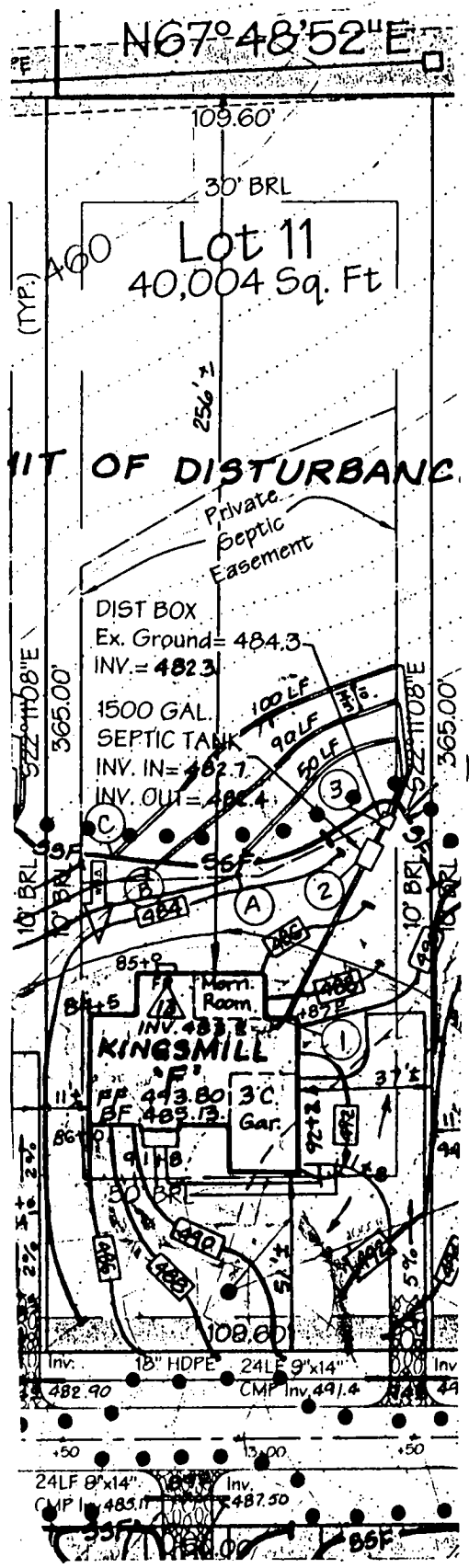
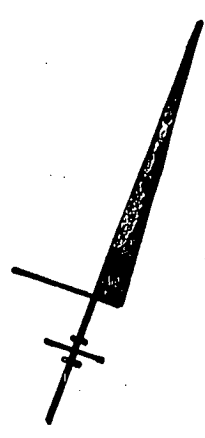
Steven Krug (KG) 3-7-02
Signature Date

SEPTIC SYSTEM DESIGN DATA:

- 1. Invert at Foundation Wall: 483.20 (Provide sleeve thru footer)
- 2. 1500 Gallon Septic Tank (4 BR-Provide manhole to grade)
Existing Ground over Tank: 485.00
Proposed Grade over Tank: 485.00
Invert In: 482.70
Invert Out: 482.40
- 3. Distribution Box: (4 Outlets Minimum)
Existing Ground Over Box: 484.30
Proposed Grade Over Box: 484.30
Invert In: 482.30
- 4. Trench Design:
(Per Health Department Septic Specifications)
= 180 SF per Bedroom x 4 Bedrooms = 720 SF
= 720 SF ÷ 3 ft Trench Width
= 240 LF of Trench REQ.

	(A)	(B)	(C)
Ex. Ground over Trench:	481.50	480.00	478.65
Invert Trench:	479.50	478.00	476.65
Bottom Trench:	477.50	476.00	474.65
Length of Trench:	50 LF	90 LF	100 LF
Width of Trench:	3'	3'	3'

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



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

Title: REVISION 13 TO GPO2-34
BRANTWOOD 3 | 1 LOT 11

LDE, Inc.
9250 Runsey Road, Suite 100
Columbia, Maryland
(410) 715-1070 - (301) 598-3124 - Fax (410) 715-9540

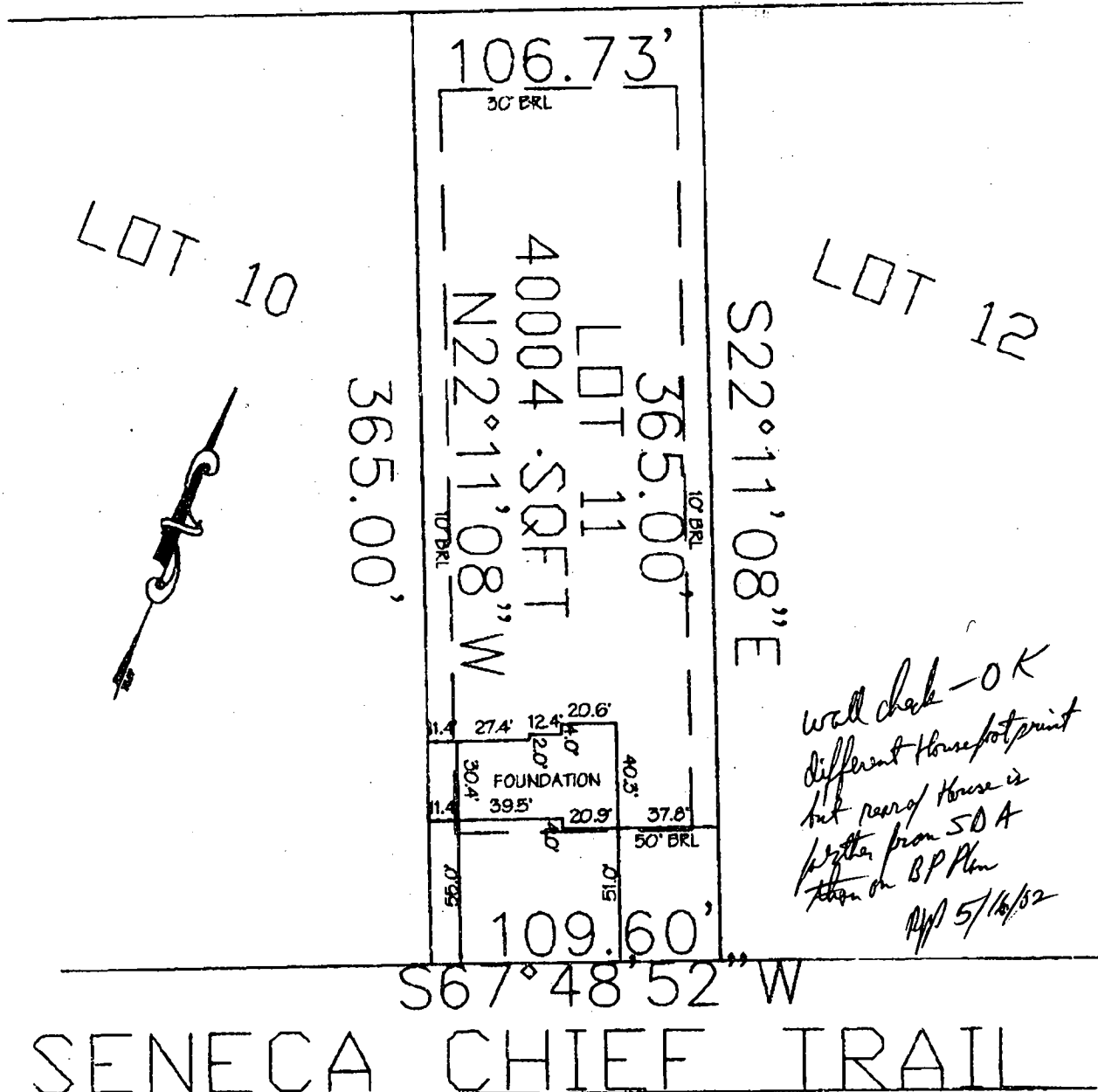
Date: 1/14/02	Drawn: LDE	
Scale: 1" = 50'	LDE Job No.: 01-043	Sheet: 1 of 1

PROPERTY KNOWN AS:

LOT 11
BRANTWOOD
SECTION THREE AREA ONE
PLAT NO. 14876
HOWARD COUNTY, MD

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

N67°48'52"E



*Wall check - OK
different house footprint
but rear of house is
further from SDA
than on BP Plan
RJP 5/16/02*

LOCATION DRAWING

TOP OF WALL ELEV= 492.84'

<p>CERTIFICATION</p>	<p>SEAL</p>	<p>SCALE 1" = 60'</p>	<p>DATE 05/01/02</p>
<p>This is to certify that I have surveyed the property known as: <u>LOT 11 SENECA CHIEF TRAIL</u></p> <p>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.</p>		<p>LDE Inc. Engineers, Surveyors, Planners</p> <p>9250 Rumsey Road, Suite 106 Columbia, Maryland - 21045 (410)715-1070 - (410)715-9540 Fax</p>	

C1 0278

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 A510571-2

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

ST/DO USE ONLY DATE RECEIVED

DATE WELL COMPLETED

Depth of Well 22 500 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HD-94-2955

OWNER Brantwood LLC STREET OR RFD Seneca Chief Trail TOWN ELICOTT CITY SUBDIVISION Brantwood SECTION 311 LOT 11

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

GROUTING RECORD section including: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CEMENT CM, BENTONITE CLAY BC), NO. OF BAGS (12), NO. OF POUNDS (128), DEPTH OF GROUT SEAL (0 to 45 ft).

CASING RECORD section including: casing types (STEEL ST, CONCRETE CO, PLASTIC PL, OTHER OT), MAIN CASING TYPE (PL), Nominal diameter (6 inch), Total depth (45 feet).

OTHER CASING (if used) section with diameter and depth fields.

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

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED: YES (Y), NO (N)

- CIRCLE APPROPRIATE LETTER: A (well abandoned), E (electric log), P (test well converted to production)

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. MWD 355, DRILLERS SIGNATURE (Handwritten)

LIC. NO. MWD 546, SITE SUPERVISOR SIGNATURE (Handwritten)

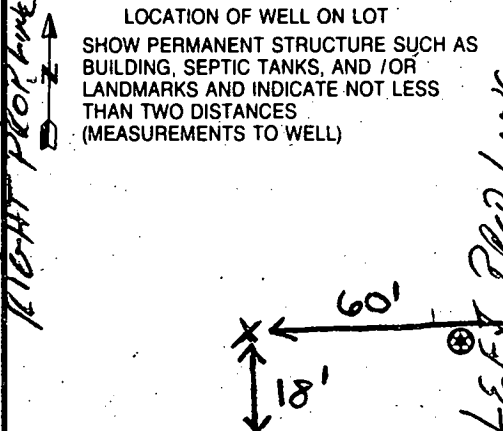
DEPTH (nearest ft.) table with columns for casing height (1-21 ft) and slot size (1-3).

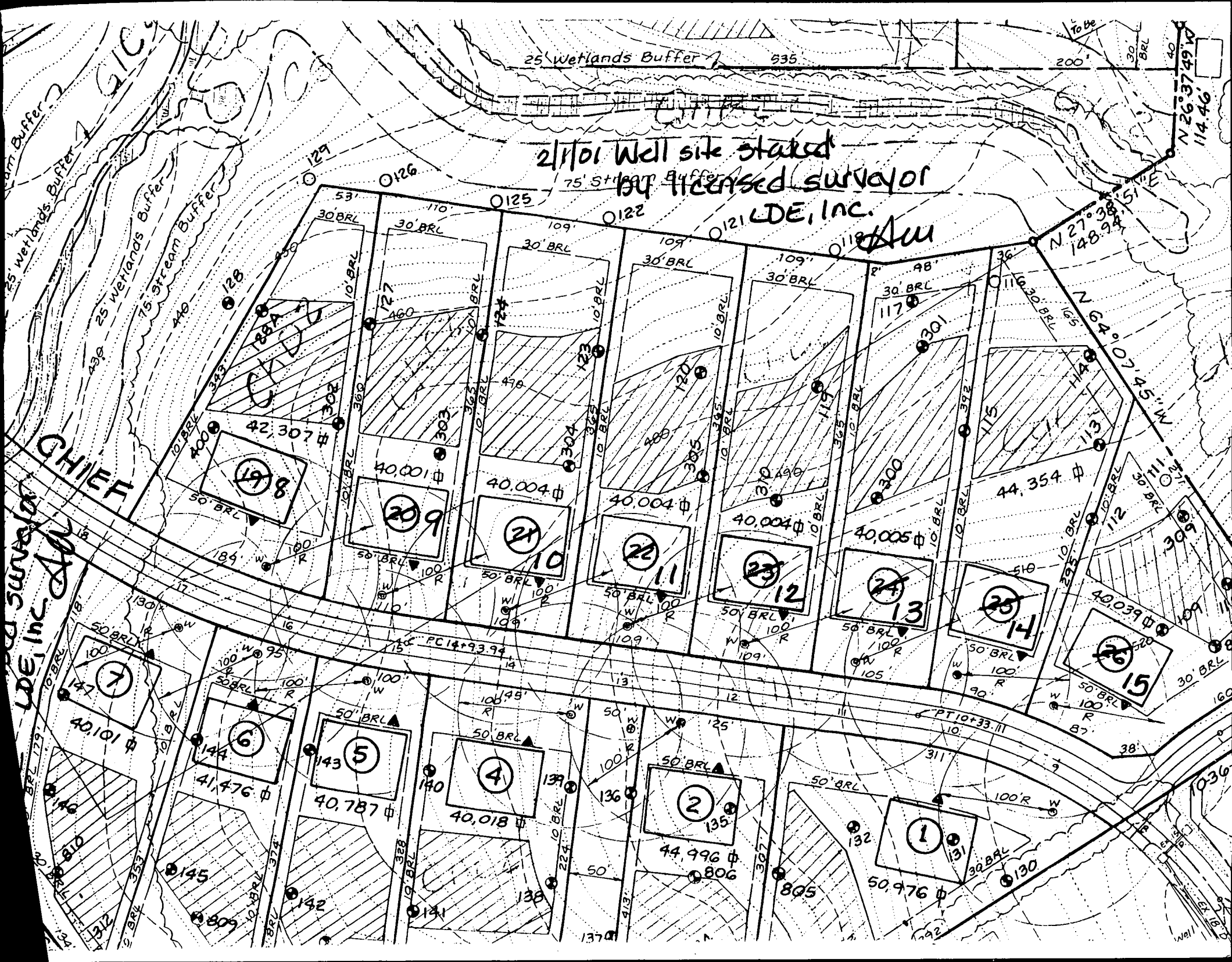
GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

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

PUMPING TEST section including: HOURS PUMPED (6.3), PUMPING RATE (1.3 gal/min), WATER LEVEL (28 ft before, 407 ft when pumping), TYPE OF PUMP USED (Submersible S).

PUMP INSTALLED section including: DRILLER INSTALLED PUMP (NO), IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS, CAPACITY: GALLONS PER MINUTE (31-35), PUMP HORSE POWER (37-41), PUMP COLUMN LENGTH (43-47), CASING HEIGHT (2 feet).





25 Wetlands Buffer 535

21/01 Well site slated
by licensed surveyor
LDE, Inc.

198

209

2110

2211

2312

2413

2514

2615

7

6

5

4

2

1

40,101

41,476

40,787

40,018

44,996

50,976

809

145

142

141

806

805

147

144

143

140

135

131

132

133

134

138

137

130

131

130

129

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

117

129

128

127

124

123

119

128

127

126

125

122

APPLICATION

PERCOLATION TESTING

A 510571 F

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. 822

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 Hold for wet season testing

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 F

COUNTY #

SOIL PROFILE

121

orange
brown
clay
loam
mica
flocs
15% rx
frags

7.5'
9'

WATER

120

brown/
orange
cl lm

3'

brown
sicl m
quartz
frags

10%
shale
frags

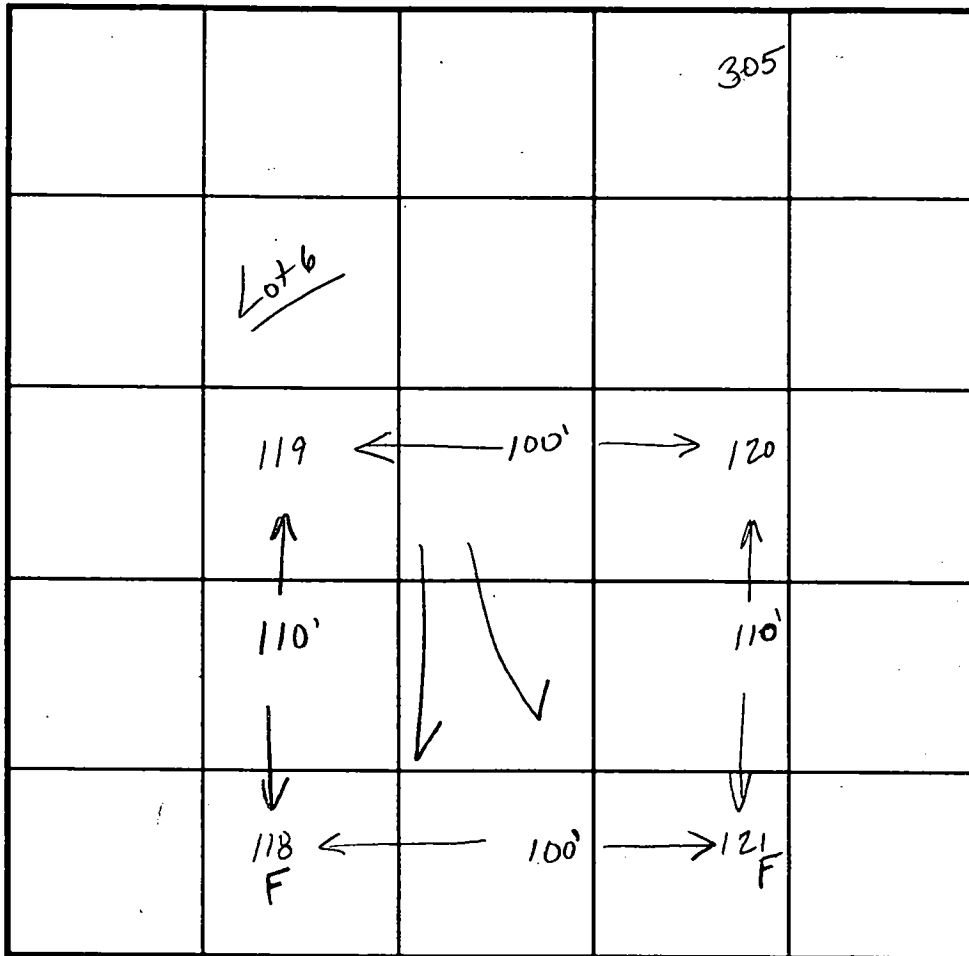
10'

118

orange
brown
clay
lm
20%
rock
frags

9'

WATER



SOIL PROFILE

119

orange
cl lm

2.5'

brown
sicl m
mica
flocs
15%
shale
frags

12'

305

or / br
cl lm

3'

or / tan
sicl m
mica
10% rx

9'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8-19-98	121	9.0'D	FAILED DUE TO WATER				F
	120	3.0'S	11:13 ₁₀	11:14 ₁₀	11:14 ₁₀	11:15 ₁₀	2min
		10.0'D	visual ok - see profile				
	118	FAILED	DUE TO WATER				F
	119	2.5'S	10:55	10:55 ₅₀	10:55 ₅₀	10:57	1 10
		12.0'D	visual ok - see profile				
	305	3.0'S	11:48 ₂₀	11:49 ₃₀	11:49 ₃₀	11:52 ₁₀	2 20
		9.0'D	visual ok - see profile				

REMARKS test holes staked by surveyor

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

5105716

COUNTY #

SOIL PROFILE

125

orange
Clay
1m

brown /
orange
silt
mica
flocs
10%
shale

122

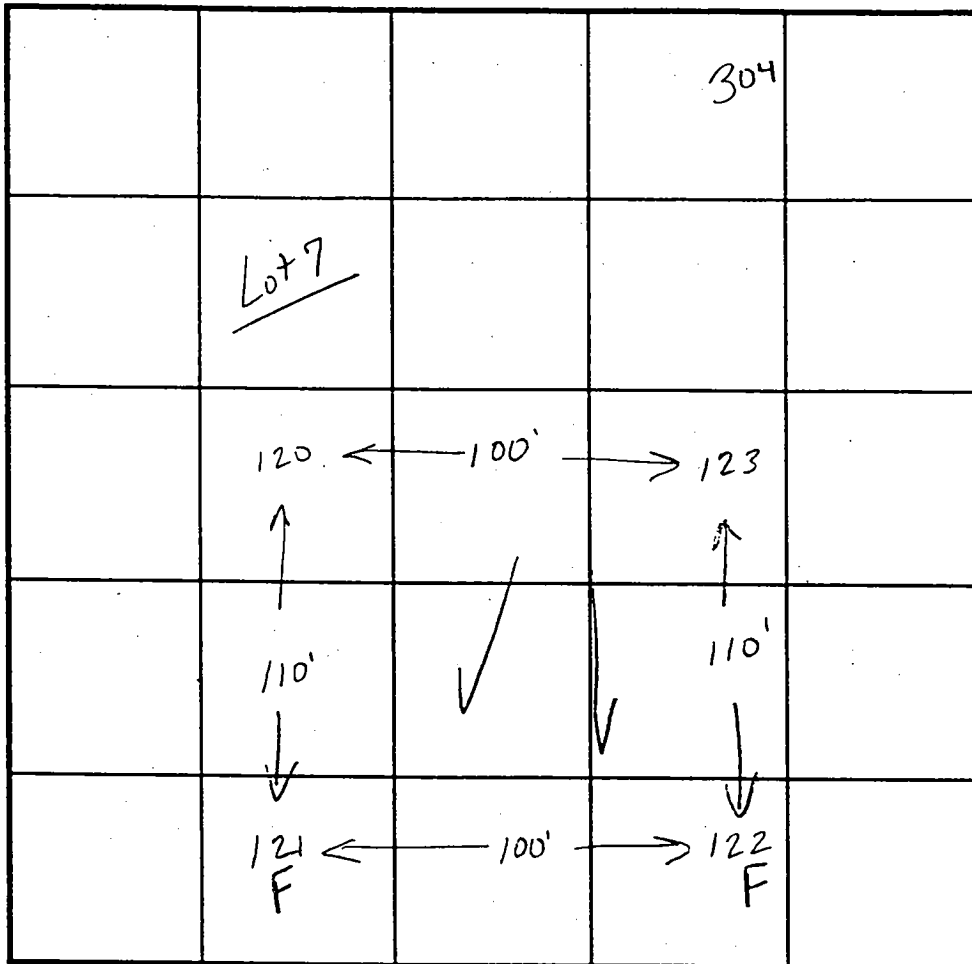
brown /
orange
Clay
silt
loam
damp

WATER

120

brown /
orange
cl 1m

brown
silt
quartz
frags
10%
shale
frags



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Route 144

SOIL PROFILE

121

orange
brown
Clay
loam
mica
flocs
15% rx
frags

WATER

304

dr / br
cl 1m
tan / beige
silt
mica flocs
10%
shale

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
8.19.98	123	3.0'S	11:18:15	11:21:50	11:21:50	11:25:30	340	
		11.0'D	visual ok - see profile					
	122	FAILED DUE TO WATER					F	
	120	3.0'S	11:13:10	11:14:10	11:14:10	11:16:10	2min	
		10.0'D	visual ok - see profile					
	121	9.0'D	failed due to water					F
	304	3.0'S	11:39:45	11:40:20	11:40:20	11:50	940	
		12.0'D	visual ok - see profile					

REMARKS test holes staked by surveyor

TYPE OF SOIL

TESTED BY Kim Maiste

ALSO PRESENT Tim Feaga

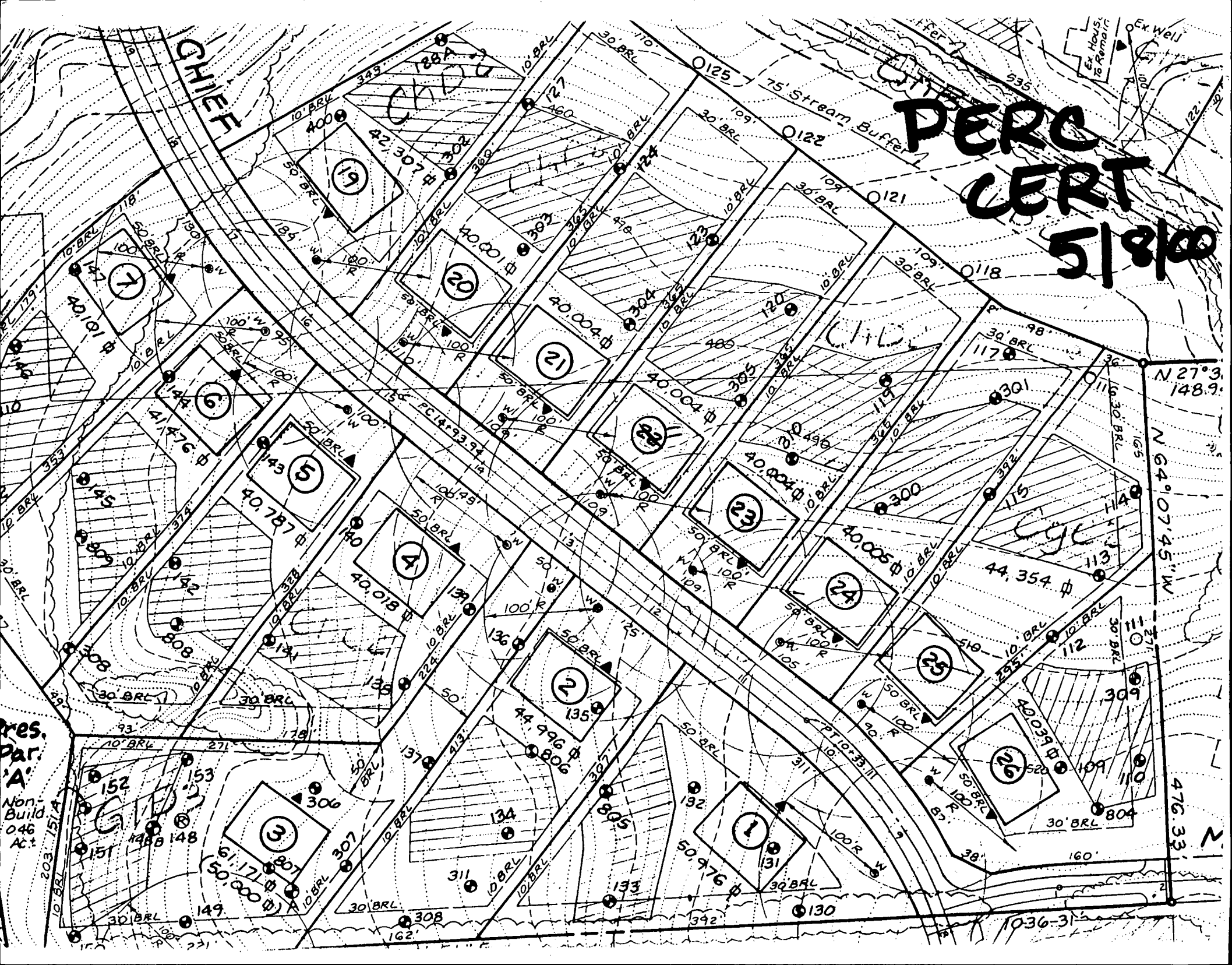
TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

TRENCH WIDTH

INLET DEPTH

MAXIMUM BOTTOM DEPTH

SQ. FT/BEDROOM



CHIEF

PERC
CERT
5/8/00

Non-Build
046
Act

203.1514

1036-31

N 27° 3.148.9'

N 64° 07' 45" W

476.33

