

Soil Summary Report
General Information

Date: December 5, 2006 Submitted to ORANGE COUNTY Health Department

Applicant: Carl Kincheloe Phone: (540) 219-6796
Address: 1102 Stuart Street, Culpeper, VA 22701

Owner: same
Address: _____

Location: _____
Tax Map: 44-63(portion of) Subdivision: _____
Block: _____ Section: _____ Lot: 2



SOIL INFORMATION SUMMARY

1. Position in landscape satisfactory Yes No
Describe Wooded Piedmont Sideslope

2. Slope 12 %
3. Depth to rock or impervious strata Max. _____ Min. 60" None _____

4. Depth of seasonal water table (gray mottling or gray color) _____ inches
Yes
No
5. Free water present Yes No
6. Soil percolation rate estimated Yes No

Texture Group III
*Estimated Rate: 65 mpi

*All applicable regulations as well as the specific soil and site conditions (including the trench sidewalls) were taken into account when the estimated percolation rate was assigned.

7. Permeability test performed Yes
No

If yes, note type of test performed and attach:

Site Approved: Primary drainfield to be placed at 24" inch depth at site designated on permit

If required, reserve drainfield to be placed at 24" depth as designated on permit

Site Disapproved

Reasons for rejection:

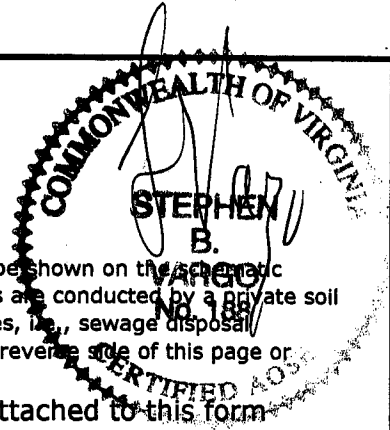
- 1. Position in landscape subject to flooding or periodic saturation
- 2. Insufficient depth of suitable soil over hard rock
- 3. Insufficient area of acceptable soil for required drainfield, and/or Reserve Area
- 4. Rates of absorption too slow
- 5. Insufficient area of acceptable soil for required drainfield, and/or Reserve Area
- 6. Proposed system too close to well
- 7. Other, Specify _____

(attach additional pages if necessary)

Soil Profile Description Report

Date of Evaluation November 15, 2006

TM 44-63, Lot 2, Orange County



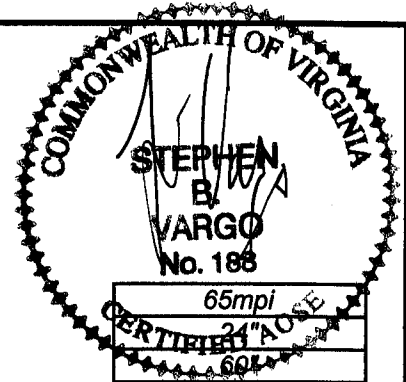
Where the local health department conducts the soil evaluation, the location of profiles holes may be shown on the schematic drawing on the construction permit or the sketch submitted with the application. If soil evaluations are conducted by a private soil scientist, location of profile holes and sketch of the area investigated including all structural features, i.e., sewage disposal systems, wells, etc., within 100 feet of site (See Section 4) and reserve site shall be shown on the reverse side of this page or prepared on a separate page and attached on this form.

See application sketch page See construction permit See sketch attached to this form

Hole	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A	0-6	10YR 5/4 Loam, Gravelly, Friable	IIB
	BA	6-15	5YR 5/4 Light Clay Loam, Gravelly, Friable	III
	Bt	15-48	5YR 5/6, few 10YR 6/6(parent) Silty Clay Loam, Firm	III
	C	48-60	2.5YR 5/8, common 10YR 6/6, 7/6(parent) Silt Loam, Friable	III
2	A	0-6	10YR 3/3 Heavy Loam, Gravelly, Friable	IIB
	BA	6-14	10YR 4/6 Light Clay Loam, Gravelly, Friable	III
	Bt	14-36	5YR 5/6 Silty Clay Loam, Firm	III
	BC	36-54	5YR 5/6, common 5YR 5/4, 10YR 6/6, 7/6(parent) Silty Clay Loam Friable to Firm	III
	C	54-60	5YR 5/6, 5/8 Silt Loam, few channers, Friable	III
3	A	0-7	10YR 4/3 Loam, Friable	IIB
	Bt	7-35	5YR 5/8 Silty Clay Loam, Firm	III
	C	35-60	Multi-colored 5YR 5/8, 10R 5/8, 7.5YR 6/6, 10YR 7/6 Silt Loam, few clay flows, Friable	III
4	A	0-6	7.5YR 4/3 Loam, Friable	IIB
	Bt	6-40	7.5YR 4/6 Light Silty Clay Loam, Friable to Firm	III
	C	40-60	Multi-colored 10R 5/8, 5YR 5/8, 10YR 6/6 Silt Loam, few clay flows Friable	III
5	A	0-6	7.5YR 4/3 Loam, Gravelly, Friable	IIB
	Bt	6-37	7.5YR 5/8 Silty Clay Loam, Firm	III
	BC	37-60	7.5YR 6/6, 6/8, common 5YR 5/8, 10R 5/8, 4/4 Silt Loam, few clay flows, Friable	III

Abbreviated Design Form

TM 44-63, Lot 2, Route 612
 Conventional Trench Installation - Primary Installation



Design Basis

1. A. Estimated Percolation Rate (minutes per inch)
- B. Recommended trench bottom (inches)
- C. Depth to restrictive feature or to limit of evaluation (inches)
- D. Minimum separation distance required
- E. Separation distance in inches provided in design (1C-1B)
- F. Minimum trench bottom due to slope $[(\% \text{ slope} - 8)/2 + (1 \text{ or } 18)]$ (inches)
- G. Is the slope greater than 10%?
- H. If slope is greater than 10%, does greater than 24" to rock exist below trench bottom?
- I. If slope is greater than 10%, and there is greater than 24" to trench bottom, add 1' to the minimum center to center spacing, beginning at 20% slope and continue for each 10% slope increase above 20%. If trench bottom is less than 24" above rock, add 1' to the minimum center to center spacing beginning at 10% slope and continue for each 10% slope increase above 10%. (For center to center spacing increase above the minimum, see the box at right.)

65mpi
24" NOSE
60"
18"
36"
20"
yes
yes
n/a

2. Trench bottom square feet required per bedroom from Table 4.6 based on: Gravity LPD

496

Number of bedrooms

3

Area Calculations

4. Trench length
Length of available area
5. Trench width
6. Number of trenches
7. Center-to-center spacing
8. A. Width required (# of trenches - 1) * (center spacing) + (trench width)
B. Width of available area
9. Total square footage required (trench bottom s.f./bedroom) * (# of bedrooms)
10. Square footage in design (trench length)*(trench width)*(# of trenches)
11. Is a reserve area required? Yes No

85
85

3

6

9

48
83

1488

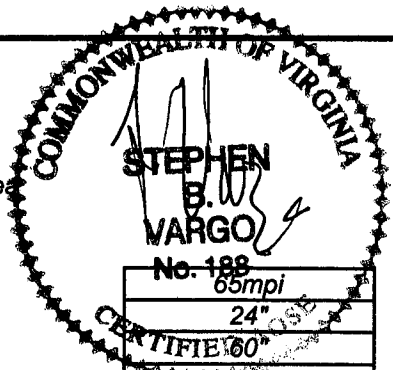
1530

Percent required: 100%
 Percent available: 100%+

Notes: 100% reserve is available with (3) 85' Puraflo/Advantex Trenches in lower section of D/F.

Abbreviated Design Form

TM 44-63, Lot 2, Route 612
 Puraflo/Advantex Trench System - 100% Reserve Area



Design Basis

1. A. Estimated Percolation Rate (minutes per inch)
- B. Recommended trench bottom (inches)
- C. Depth to restrictive feature or to limit of evaluation if none encountered (inches)
- D. Minimum separation distance required (may be impacted by perc rate)
- E. Separation distance in inches provided in design (1C-1B)
- F. Minimum trench bottom is 10 inches, unless slope is > 10%, then [(% slope x .01 x trench width in inches) + 10 inch minimum]
- G. Is the slope greater than 10%?
- H. If slope is greater than 10%, does greater than 24" to rock exist below trench bottom?
- I. If slope is greater than 10%, and there is greater than 24" to trench bottom, add 1' to the minimum center to center spacing, beginning at 20% slope and continue for each 10% slope increase above 20%. If trench bottom is less than 24" above rock, add 1' to the minimum center to center spacing beginning at 10% slope and continue for each 10% slope increase above 10%. (For center to center spacing increase above the minimum, see the box at right.)

No. 188
65mpi
24"
12"
36"
15"
yes
yes
n/a

2. Square feet required:
 Puraflo/Advantex loading rate: 0.68 gpd/sq.ft.
 Square footage required per bedroom: (150 gpd/bedroom) / (0.68 gpd/sq.ft.)

221

3. Number of bedrooms

3

Area Calculations

4. Trench length
 Length of available area
5. Trench width
6. Number of trenches
7. Center-to-center spacing
8. A. Width required [(# of trenches - 1) * (center spacing)] + (trench width)
 B. Width of available area
9. Total square footage required (trench bottom s.f./bedroom) * (# of bedrooms)
10. Square footage in design (trench length)*(trench width)*(# of trenches)

85
85

3

3

9

21
83

663


765

11. Is a reserve area required? Yes No


Percent required: 100%
 Percent available: 100%+

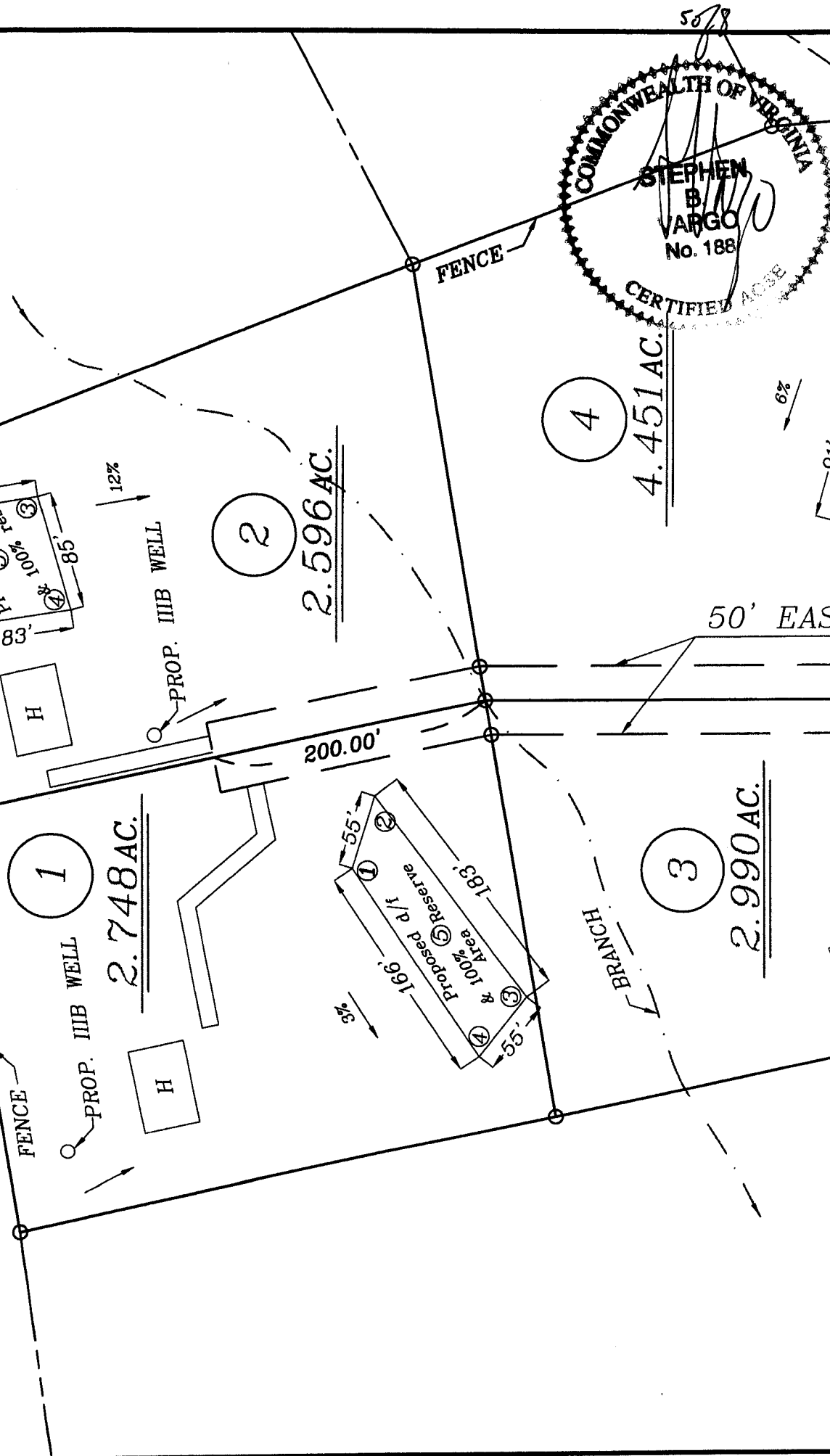
ON AND OFFSITE FEATURES NOTED WITHIN 200'
 OF PROPOSED DRAINFIELD AND WELL AREAS ARE SHOWN
 ON THIS PLAN.

SCALE: 1:100

HOUSE: 

WELL: 

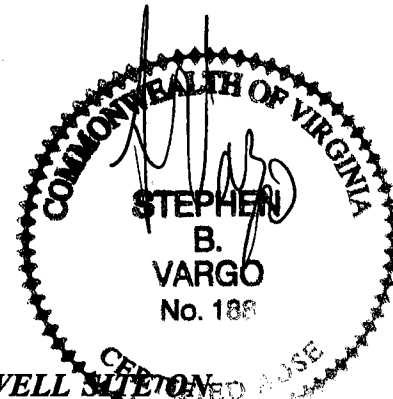
SOIL BORING: 



60f8

PIEDMONT SOIL CONSULTING, INC.

P.O. BOX 1426, LOUISA, VA 23093
(540) 967-5222, (540) 895-9200



SHOULD YOU NEED TO RELOCATE YOUR DRAINFIELD OR WELL SITES ON THIS PROPERTY TO ACCOMMODATE A HOME OR BUILDING SITE, PLEASE CONTACT PIEDMONT SOIL CONSULTING, INC.

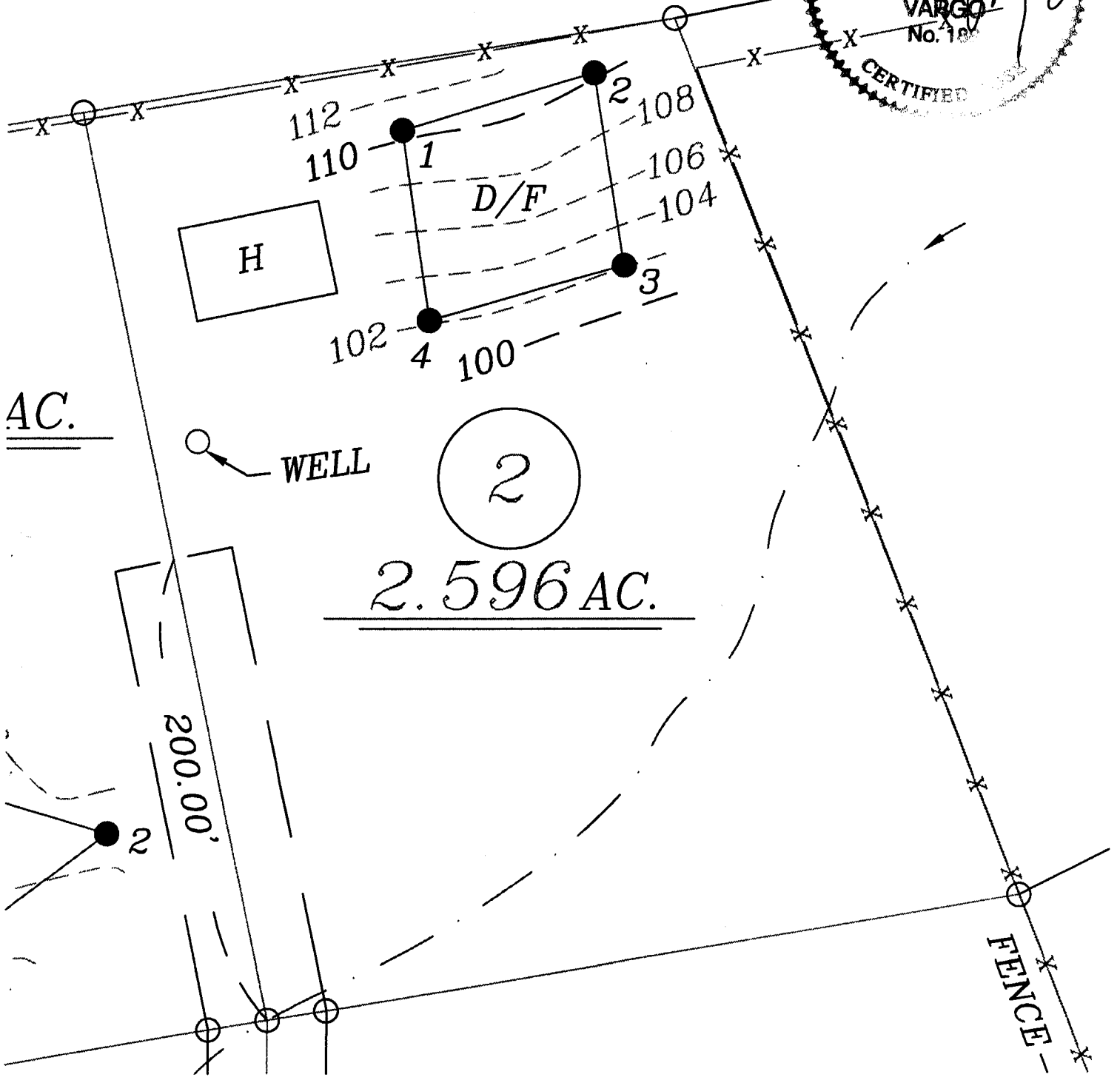
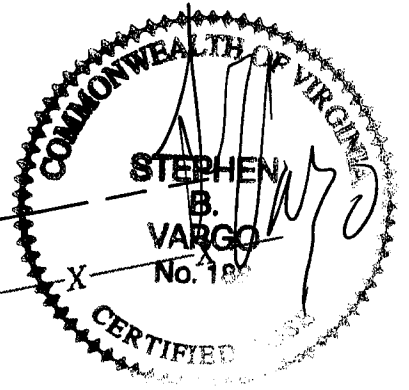
IF YOU PLAN ON BUILDING A HOME ON THIS PROPERTY, PLEASE CONTACT PIEDMONT SOIL CONSULTING, INC. TO OBTAIN A SEWAGE HANDLING AND DISPOSAL PERMIT for submittal to Louisa County.

IF YOU DO NOT PLAN ON BUILDING WITHIN THE NEXT 18 MONTHS, AND WOULD LIKE TO OBTAIN A CERTIFICATION LETTER, PLEASE CONTACT PIEDMONT SOIL CONSULTING, INC.

Certification Letters:

1. *May be recorded on the deed to your property*
2. *Are transferable to new owners should you sell your property*
3. *Are valid in perpetuity (do not expire once reviewed, approved and recorded on the property deed)*

PIEDMONT SOIL CONSULTING, INC.
LOUISA, VIRGINIA
(540) 967-5222 (540) 895-9200



1" = 60'
COPY OF PLAT

Certification Statement

County: Orange

Property Identification: Tax Map 44-63, Lot 2

Submitted by: Piedmont Soil Consulting, Inc. - Stephen B. Vargo

This is to certify according to subsection 32.1-163.5 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Virginia Department of Health. I recommend a Subdivision be approved.

AOSE: Stephen B. Vargo; AOSE 188

Date: December 5, 2006

