

BRIAN L. HEWITT ENGINEERING L.L.C.

Site Evaluation Report

January 27, 2010

Job # 10-006

Property Address: 2834 Allen Street Rd. Kelso, Washington 98626

Parcel Number: WI2516009

Applicant Name: Calvin & Kimberly Miller, 88 Essex Dr. Kelso, Washington 98626

Number of Bedrooms for Septic Design: 4

Acres: 1.190

Site Characteristics

General Topographic Characteristics: Kelso Silt Loam

Drainage Characteristics: Well Drained

Slopes: General: 0-8 % Proposed Drainfield Location: 3 %

Geology: Type of Bedrock & depth: None

Vegetation: Lawn

Distance to, and type of, nearest surface water: None
(If less than 250 ft.)

Distance to nearby wells: Existing well to be decommissioned prior to home addition, proposed new well 75' from reserve area.

Distance to public Sewers: None

Other Structures on Property: Home and shop

Engineer's statement regarding type of system required:

Based upon the soil analysis performed August 17, 2009 it is my determination that the primary on-site sewage system is approved for a Pressure Distribution system.

The primary Drainfield area will require 1,200 sq. ft. (of Drainfield) minimum and 3,000 sq. ft. (land area) or 75 ft. by 40 ft.

The reserve area is approved for a Pre-Treatment Level A to Sub-surface Drip Irrigation system and will require 900 ft. (of Drip Tube) minimum and 1,800 sq. ft. (land area) or 78 ft. by 23 ft.

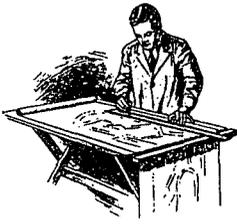
Submitted by: Brian L. Hewitt P.E. # 29393

Date: January 27, 2010

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COWLITZ COUNTY
BUILDING & PLANNING



10020128



BRIAN L. HEWITT ENGINEERING L.L.C.

Soil Evaluation Report

January 27, 2010

Job # 10-006

Property Address: 2834 Allen Street Rd. Kelso, Washington 98626

Parcel Number: WI2516009

Applicant Name: Calvin & Kimberly Miller, 88 Essex Dr. Kelso, Washington 98626

Section 25 Township 8N Range 2W Tax Lot # R013148

Subdivision Number Lot of

Soil Information

As mapped by U.S. Soil Conservation Service (S.C.S.): Kelso Silt Loam

<u>Soil Profile:</u>	<u>Depth</u>	<u>Description</u>	<u>Comments</u>
<u>Test Hole #1</u>	0-14"	Silt Loam (sil)	Brown sbk/2/m
	14-46"	Silt Loam (sil)	Brown sbk/2/m
	46-55"	Silt Loam (sil)	Brown pr/1/m (scattered mottling)
	Roots to 30"	Slight Mottling at 46"	No Water
<u>Test Hole #2</u>	0-24"	Silt Loam (sil)	Brown sbk/2/m
	24-46"	Silt Loam (sil)	Brown sbk/2/m
	46-55"	Silt Loam (sil)	Brown pr/1/m
	Roots to 46"	Moderate Mottling at 46"	No Water
<u>Test Hole #3</u>	0-24"	Silt Loam (sil)	Brown sbk/2/m
	24-40"	Silt Loam (sil)	Multi pl/1/m
	Roots to 30"	Moderate Mottling at 30"	No Water
<u>Test Hole #4</u>	0-17"	Silt Loam (sil)	Brown sbk/2/m
	17-33"	Silt Loam (sil)	Brown sbk/2/m
	33-40"	Silt Loam (sil)	Multi pr/1/m
	Roots to 33"	Slight Mottling at 33"	No Water
<u>Test Hole #5</u>	0-12"	Silt Loam (sil)	Brown sbk/2/m
	12-18"	Silt Loam (sil)	Brown sbk/2/m
	18-36"	Silt Loam (sil)	Multi pr/1/m
	Roots to 10"	Strong Mottling at 18"	No Water

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Maximum Seasonal Groundwater Elevation:

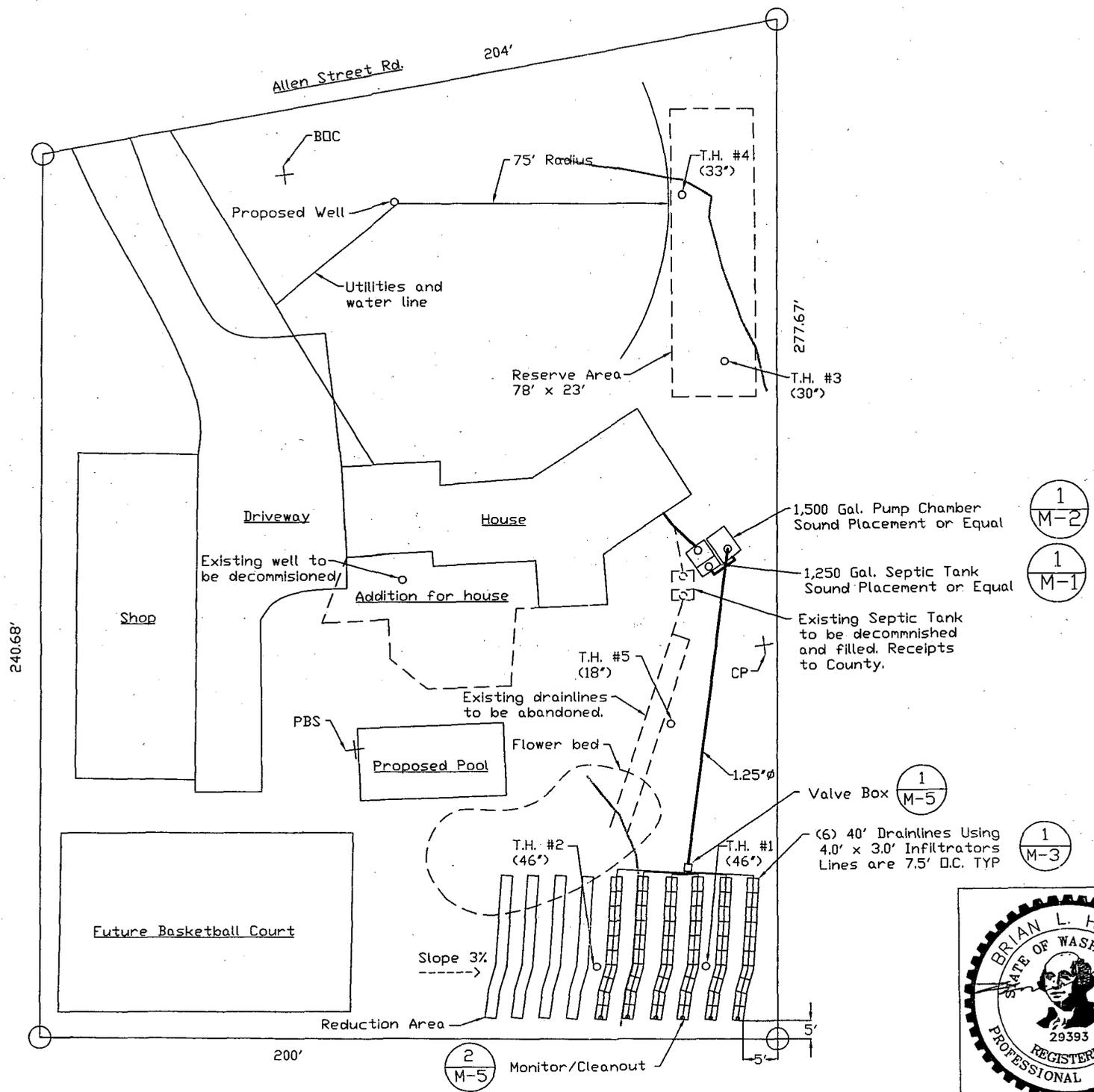
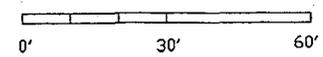
Soil Mottling: Moderate at 46" in primary area WAC Soil Classification: Type 5
(Depth and degree of development) (1A, 1B, 2A etc.)

Hydraulic Loading Rate: 0.40 gallons/sq ft/day Water Table: none present
(depth to standing water)

Additional Comments: We have increased the treatment level in the reserve area to Treatment Level A to reduce the setback from the proposed well to 75'.

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1
M-2

1
M-1

1
M-5

1
M-3

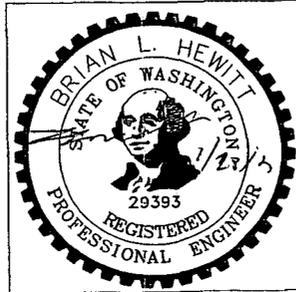
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PLOT PLAN

If Drainfield is to be installed other than the months of June-September the installer must contact Brian Hewitt Engineering before work begins for soil moisture content approval.



Calvin & Kimberly Miller
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Kelso, Washington 98626
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Longview, Washington 98632
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e-mail: Hewitt.Engineering@comcast.net

Date: 01/26/10 Job #10-006

Scale: 1"=30'-0" Sheet M-6

