



BRIAN L. HEWITT ENGINEERING L.L.C.

Site Evaluation Report

December 18, 2007

Job# 07-279

Client: Robert Steele 325 Baker rd. Ariel, Washington 98603

Property Address: 325 Baker Road Ariel, Washington 98603

Parcel Number: EM2306013

Bedroom # 4

Acres: 5.40

Site Characteristics

General Topographic Characteristics: Old River terrace

Drainage characteristics: well

General Slopes: 0 to 8 percent

Slope of proposed drainfield location: 2 percent southwest

General geology: Volcanic ash mixed alluvium overlying glacial outwash

Vegetation: pasture

Surface water: greater than 100 feet

Distance to nearby wells: maintain greater than 100 feet from well to east

Distance to public sewers: N/A

Structures on Property: residence and outbuildings

Other concerns: none

Site evaluator's statement regarding type of system required:

Based upon the soil analysis performed December 1, 2007, it is my determination that the primary on-site sewage system is approved for a Conventional Gravity Flow system with equal distribution for the Drainfield.

Primary drainfield area will require 800 sq. ft. (of Drainfield) minimum and 2,120 sq. ft. (land area) or 44 ft. by 48 ft.

The reserve area is approved for a Conventional Gravity system and will require 800 sq. ft. (of Drainfield) minimum and 2,120 sq. ft. (land area) or 44 ft. by 48 ft.

Submitted by: Brian L. Hewitt P.E.

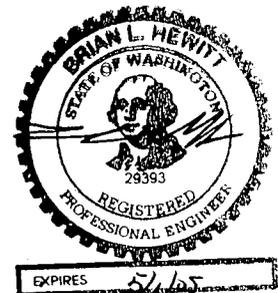
29393

Expires 5/1/09

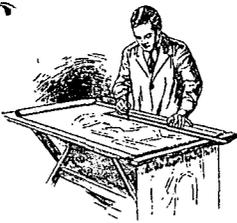
Date: December 30, 2007

APPROVED

1-7-08



07122483



BRIAN L. HEWITT ENGINEERING L.L.C.

Soil Evaluation Report

December 15, 2007

Job# 07-279

Client: Robert Steele 325 Baker rd. Ariel, Washington 98603

Property Address: 325 Baker Road Ariel, Washington 98603

Parcel Number: EM2306013

Location: NW/4 of sec. 23, Township 6N Range 3W

Soil Information

Natural Resource Conservation Service Soil Survey of Cowlitz County, 1988.

Test pit is located in NRCS soil survey mapping unit 247, Winston silt loam, 0 to 20 percent slopes.

Winston soil characteristics:

0 to 4 inches, silt loam, moderate structure

4 to 15 inches, loam, moderate structure

15 to 24 inches, loam, weak structure

24 to 60 inches, extremely gravelly sand, single grain

Summary of soils found

Soils observed are inclusions for Winston mapping unit. Soil observed have moderate structured silt loam or loam soil surface with loam subsoil. The substratum is a cobbly or gravelly sandy loam or loam.

Observed Soil Profiles used for initial and reserve:

<u>Depth</u> Inches	<u>Description</u>
Test Hole #1	
0-10	loam, moderate subangular blocky structure
10-60	loam, moderate prismatic structure
Test Hole #2	
0-9	loam, moderate subangular blocky structure
9-36	gravelly loam, moderate prismatic structure
36-60	gravelly sandy loam, weak subangular blocky structure
Test Hole #3	
0-8	loam, moderate subangular blocky structure
8-32	gravelly loam, moderate prismatic structure
32-60	cobbly sandy loam, weak subangular blocky structure
Test Hole #4	
0-10	loam, moderate subangular blocky structure
10-41	gravelly loam, moderate prismatic structure
41-60	cobbly sandy loam, weak subangular blocky structure

Parent Material: volcanic ash and mixed alluvium overlying glacial outwash

Restrictive Layer: none

Proposed infiltrative surface rate depending on trench depth and vertical separation for a moderate structure loam or sandy loam: USEPA, moderate structure 0.6 gal/Ft²-day (BOD>150), WAC 246-272A (July 05, 2005): moderate structure 0.6 gal/Ft²-day.

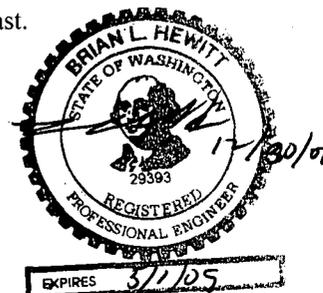
Consultant recommends: 0.6 gal/Ft²-day

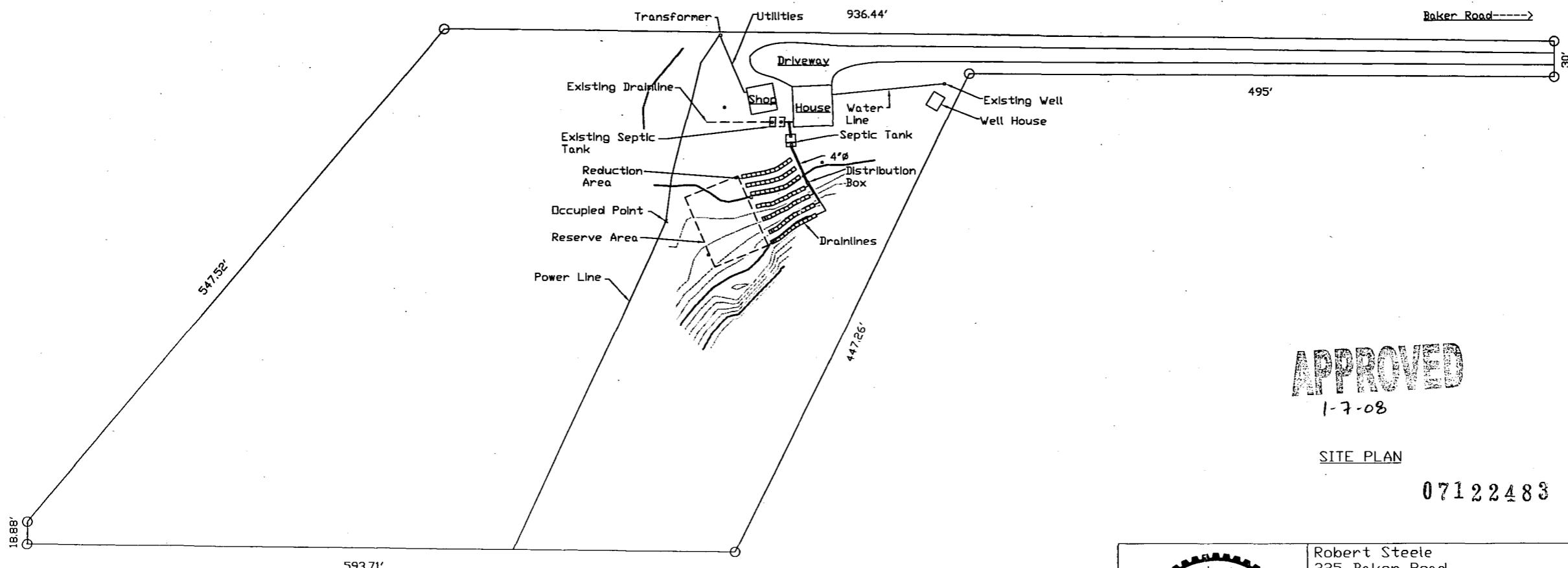
System Type: Treatment Level E gravity

Additional Comments: Maintain drainfield greater than 100 feet from well to east.

APPROVED

1-7-08





APPROVED

1-7-08

SITE PLAN

07122483



EXPIRES MAY 1, 2009

Robert Steele 325 Baker Road Ariel, Washington 98603 Brian L. Hewitt Engineering L.L.C. 3029 Maple St. Longview, Washington 98632 Cell: 360.751.3751 Fax: 360.425.2255 e-mail: Hewitt.Engineering@comcast.net	
Date: 12/28/07	Job #07-279
Scale: 1"=80'-0"	Sheet M-5