



276 Bayswater

BRIAN L. HEWITT ENGINEERING L.L.C.

Soil Evaluation Report

January 30, 2007

Job# 07-056.3

Client: Three Rivers Recreation, 1805 Howard Way Woodland, Washington, 98674

Property Address: ??? Bayswater Rd. Lot 3 Ariel, Washington 98603

Parcel Number: part of EM2412001

Location: NE/4 of sec. 25 Township 6N Range 4E

Subdivision: O. R. M. Short Plat Lot 3 of 4

Soil Information

Natural Resource Conservation Service Soil Survey of Cowlitz

County, 1988. Test pits are located in NRCS soil survey mapping unit 26, Cinebar silt loam, 5 to 20 percent slopes.

Cinebar soil characteristics:

0 to 4 inches silt loam, moderate structure

4 to 23 inches silt loam, weak structure

23 to 60 inches silt loam, massive.

Summary of soils found

Soils observed inclusion to Cinebar soil mapping unit. The soils pits observed have a loam surface with a moderate structure and a gravelly or very gravelly loam subsoil with a moderate structured. Fractured rock starts at 48 inches (avoid test hole #1)

Observed Soil Profiles:

Depth

Description

Inches

Test Hole #1

0-20" gravelly loam, moderate subangular blocky structure.

20"+ fractured rock

Test Hole #2

0-6" loam, moderate subangular blocky structure

6-50" gravelly loam, moderate prismatic structure

Test Hole #3

0-8" loam, moderate subangular blocky structure

8-30" gravelly loam, moderate subangular blocky structure

30-48" very gravelly loam, moderate subangular blocky structure

48" + fractured rock

Test Hole #4

0-7" loam, moderate subangular blocky structure

7-34" gravelly loam, moderate subangular blocky structure

34-51" very gravelly loam, moderate subangular blocky structure

51" + fractured rock

Parent Material: Volcanic ash over residuum

Proposed infiltrative surface rate for a moderate structured sandy loam:

USEPA, sandy loam 0.6 gal/Ft²-day (BOD>150), WAC 246-272A (July 05, 2005) sandy loam 0.6 gal/ft²-day

Consultant recommends: 0.6 gal/ft²/day

System type: Pressurized drainfield over 2, 3 and 4 test holes

Additional Comments: none





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Site Evaluation Report

January 30, 2007

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Property Address: ??? Bayswater Rd. Lot 3 Ariel, Washington 98603

Parcel Number: part of EM2412001

Acres: 3.52

Bedrooms: 3

Site Characteristics

General Topographic Characteristics: upland side slope

Drainage characteristics: no observed drainage problem.

General Slopes: 5 to 20 percent

Slope of proposed drainfield location: 30 percent west

General geology: Volcanic ash over residuum

Vegetation: cleared forested

Surface water: greater than 100 feet

Distance to nearby wells: greater than 100 feet

Distance to public sewers: N.A.

Structures on Property: none on proposed property

Other concerns: Locate drainfield over test holes 2, 3 and 4

Site evaluator's statement regarding type of system required:

Based upon the soil analysis performed January 30, 2007 it is my determination that the primary on-site sewage system is approved for a Pressure Distribution system.

The primary Drainfield area will require 600 sq. ft. (of Drainfield) minimum and 1,591 sq. ft. (land area) or 48 ft. by 34 ft.

The reserve area is approved for Advantex Treatment with UV disinfection system followed by a sub-surface drip drainfield and will require 600 sq. ft. (of Drainfield) minimum and 1,591 sq. ft. (land area) or 48 ft. by 34 ft.

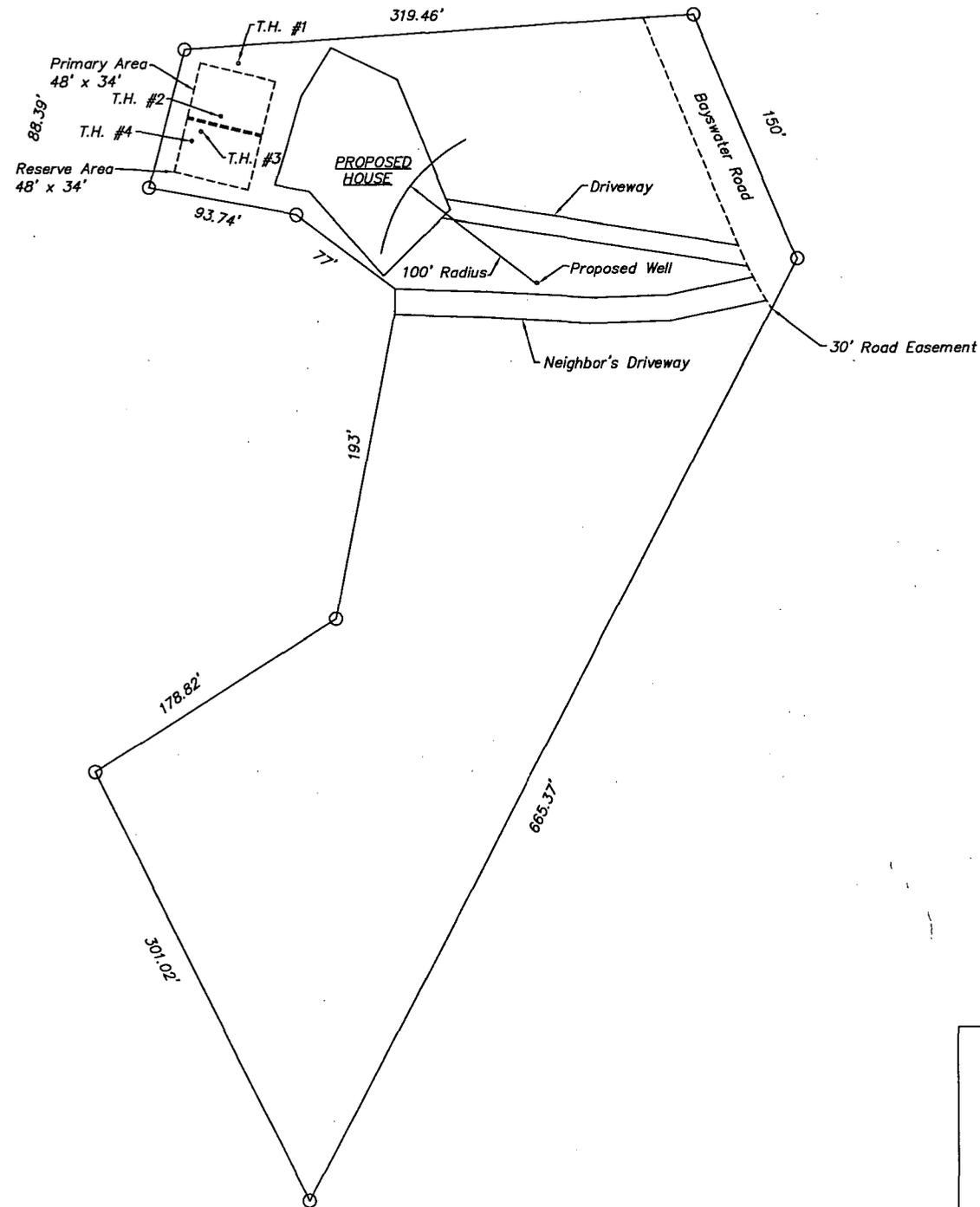
Submitted by: Brian L. Hewitt P.E.

29393

Expires 5/1/07

Date: March 1, 2007





SITE PLAN



EXPIRES MAY 1, 2007

DRM Short Plat Lot 3
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Ariel, Washington 98603
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Date: 02/28/07 Job #07-054.3

Scale: 1"=80'-0"

Sheet M-X