



Advanced Septic Consulting Inc.

November 3, 2012

Report Number: 12-057

Customer: Darren Hammack, 124 Acker Rd. Kalama, Washington 98625

Project Location: 140 Acker Rd. Kalama, Washington 98625

Section: 22 Township: 6N Range: 1W

Parcel Number: WC2215015 Short Plat Number: CC-09020 Lot 2

Acres: 2.8 No. Bedrooms: 3 Water Supply: Public Water

Site Characteristics:

The site is located with the USDA mapping unit 125 - Mart Silt Loam. Mart Silt Loam is typically well drained with a water table at greater than 80". No mottling was noted in the primary septic area. A restrictive layer was noted in the primary septic area at 60". Based on the observed test holes the primary septic area will require a Conventional Gravity Flow system. The reserve area is adequate for a Pressure Distribution system. Typical slope ranges from 20-30 %. In the primary drainfield location the slope ranges from 22-30%. Vegetation in the area is mixed brush and small timber.

Soil Evaluation:

	<u>Depth</u>	<u>Soil</u>	<u>Type</u>	<u>Structure</u>	<u>Color</u>	<u>Roots</u>	<u>Mottling</u>
Test Hole #1	0-17"	SiL	5	2, m, sbk	10yr3/3	m/co	None
	17-36"	siCL	5	2, m, sbk	5yr4/4	c/f	None
	36-42"	CL	5	2, m, sbk	mixed	f/f	None
	42-55"	CL	7	1, m, sbk	mixed	f/f	Moderate
Test Hole #2	0-12"	SiL	5	2, m, sbk	10yr3/3	m/co	None
	12-43"	siCL	5	2, m, sbk	mixed	f/f	None
	43-50"	vg, CL	6	1, m, abk	mixed	f/f	None
Test Hole #3	0-19"	SiL	5	2, m, sbk	10yr3/3	m/co	None
	19-38"	g, CL	5	2, m, abk	mixed	f/co	None
	38-50"	Fractured Soft Rock					
Test Hole #4	0-12"	SiL	5	2, m, sbk	10yr3/3	m/co	None
	12-34"	siCL	5	2, m, sbk	mixed	c/f	None
	34-60"	exg, siCL	5	3, m, abk	mixed	f/f	None
Test Hole #5	0-12"	SiL	5	2, m, sbk	10yr3/3	m/co	None
	12-33"	siCL	5	2, m, sbk	10yr4/4	c/m	None
	33-60"	CL	5	2, m, sbk	mixed	c/m	None
	60-64"	CL	6	1, m, sbk	mixed	None	None

Design Requirements:

Based upon the evaluation performed on November 3, 2012 it is my determination that the primary septic area will require a Standard Conventional Flow system meeting treatment level E to service the on-site septic needs of the future home.

The primary area will require 900 sq. ft. of drainfield and 2,250 sq. ft. of land area or 60 ft. by 38 ft.

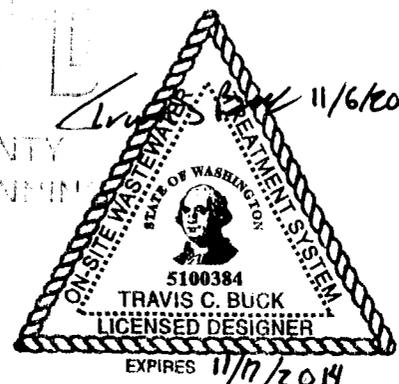
The reserve area is approved for a Pressure Distribution system and will require 900 sq. ft. of drainfield and 2,250 sq. ft. of land area.

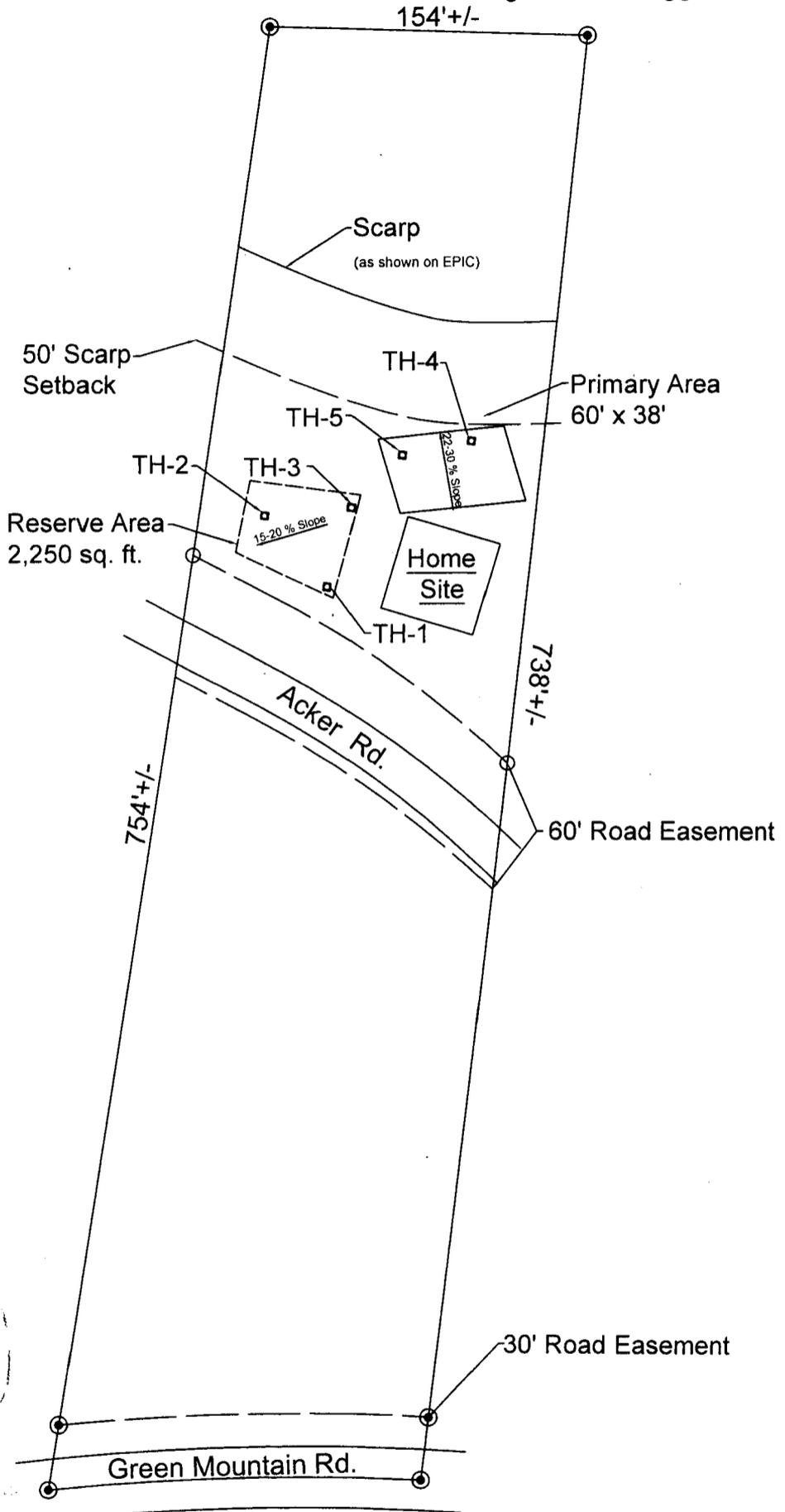
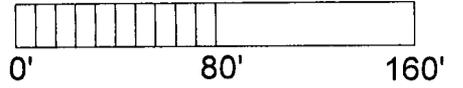
Other comments or concerns:

APPROVED
November 3, 2012

GRAYS HARBOR COUNTY
PLANNING DEPARTMENT

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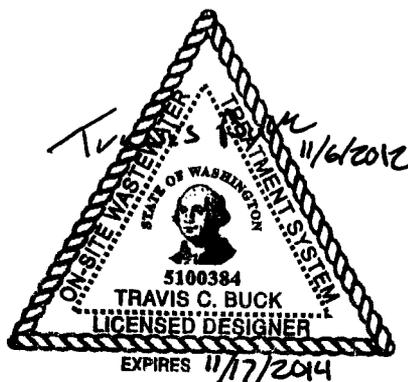




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Design: 12-057

Date: 11/5/2012

Scale: 1" = 80'

Drawing: 1