



## Cowlitz County Health & Human Services Department

Environmental Health Unit  
207 Fourth Avenue North, Kelso, WA 98626  
TEL (360) 414-5599 FAX (360) 425-7531  
[www.co.cowlitz.wa.us/hhs](http://www.co.cowlitz.wa.us/hhs)

### SOILS EVALUATION CHECKLIST

Project Address (if available): Spirit Lake Hwy Parcel No.: WF0620104  
Plat #: \_\_\_\_\_ Lot #: 3 of 4 Acreage 2.42 Method II Analysis Required (Indicate One): ☐ Yes ☒ No  
Name: Chilton Inc Choose one: ☒ Owner ☐ Applicant ☐ Authorized Agent  
Designer: Travis Buck #Bedrooms/GPD: 3/360 Water Supply: ☒ Public ☐ Well (choose one)  
Proposed System Type: Standard Gravity Flow System

Proposed Treatment Level (choose one): ☐ A ☐ B ☐ C ☐ D ☒ E ☐ N

| DESIGNER<br>INITIAL |   | STAFF<br>INITIAL |
|---------------------|---|------------------|
| <u>TB</u>           | 1. Completed EHU Master Application*, including parcel # and address (if available)   |                  |
| <u>TB</u>           | 2. A Cowlitz County Planning Certification form had been completed (please circle: YES or NO)   |                  |
| <u>TB</u>           | 3. Name & Address of property owner and applicant on each page of submission. [WAC 246-272A-0200(1)(a)(i)]  |                  |
| <u>TB</u>           | 4. Each page of submission is stamped, signed, and dated by a Washington State Professional Engineer or Onsite Wastewater Designer (RCW 18.210.130, WAC 196-33-500)<br>(The Soil Log/Evaluation Report may be completed by a soil scientist)  |                  |
| <u>TB</u>           | 5. A site plan is attached and shows general topography and /or slope are shown on the parcel for the applicable areas  |                  |
| <u>TB</u>           | 6. Site plan shows test-hole locations, primary and reserve drainfield areas, and the well or proposed well location with 100' radius around the well or proposed well.   |                  |
| <u>TB</u>           | 7. Numbered Soil Log/Evaluation Report dated and attached with texture, structure, and other soil characteristics.  |                  |
| <u>TB</u>           | 8. The site is ready for inspection: <ul style="list-style-type: none"><li>• Clear and concise directions to inspection site are provided (if necessary).</li><li>• Entrance to property is clearly marked</li><li>• Primary and reserve areas are labeled**</li><li>• Test pits are open and labeled with at least two soil logs within / immediately adjacent to the primary and reserve area; test pits match the soil log</li></ul> | N/A              |

Comments: \_\_\_\_\_

Permit Number (For official use) \_\_\_\_\_

\* Not required for online application.

\*\* If the site is constricted and horizontal setback are in question, we reserve the right to have the designer re-stake the area.

For more information, contact OMseptic@co.cowlitz.wa.us. Permit intake and issuance hours are Monday through Thursday, 7:30 am – 5:30 pm.









## Advanced Septic Consulting Inc.

November 4, 2024

Design Number: 24-239.3

Customer: Chilton Inc., 1760 Down River Dr. Woodland, Washington 98674

Project Location: Spirit Lake Hwy. Castle Rock, Washington 98611

Section: 6 Township: 9N Range: 1W Lot: 3 of 4

Parcel Number: WF0620104 Acres: 2.42 No. Bedrooms: 3

Type of Water Supply: Public Water

### Site Characteristics:

The site is located within USDA-NRCS mapping unit 148– Olympic Silt Loam. Typical depth to the water table is greater than 80". The site is well drained in the primary septic area with moderate mottling and a restrictive layer noted ranging from 51 to 60". The reserve area has no mottling noted to 44" and a restrictive layer noted at 44". Typical slope ranges from 20 to 30%. The proposed septic areas are on an east facing slope with a slope ranging from 6 to 10%. Vegetation in the septic area has recently been cleared from logging activities.

### 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 | 0-12"        | SiL             | 5           | 3, m, gr         | 10yr4/4      | m/f          | None            |
|              | 12-60"       | siCL            | 5           | 2, m, sbk        | 10yr5/4      | m/f          | None            |
|              | 60-62"       | siCL            | 7           | 1, m, sbk        | Mixed        | None         | Moderate        |
| Test Hole #2 | 0-13"        | SiL             | 5           | 3, m, gr         | 10yr4/4      | m/f          | None            |
|              | 13-44"       | siCL            | 5           | 2, m, sbk        | 10yr5/4      | m/f          | None            |
| Test Hole #3 | 0-10"        | SiL             | 5           | 3, m, gr         | 10yr4/4      | m/f          | None            |
|              | 10-46"       | siCL            | 5           | 2, m, sbk        | 10yr5/4      | m/f          | None            |
|              | 46-51"       | siCL            | 5           | 2, m, sbk        | Mixed        | f/f          | None            |
| Test Hole #4 | 0-26"        | SiL             | 5           | 3, m, gr         | 10yr4/4      | m/f          | None            |
|              | 26-44"       | siCL            | 5           | 2, m, sbk        | 10yr5/4      | m/f          | None            |
|              | 44-50"       | Decomposed Rock |             |                  |              |              |                 |

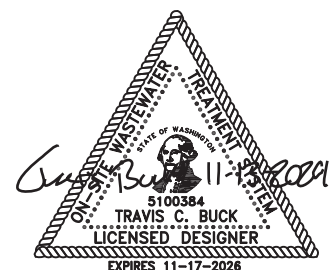
### Design Requirements:

Based upon the evaluation performed on October 8, 2024 it is my determination that the primary area is adequate for the use of a Standard Gravity Flow system meeting Treatment Level E to service the on-site septic needs of the future home.

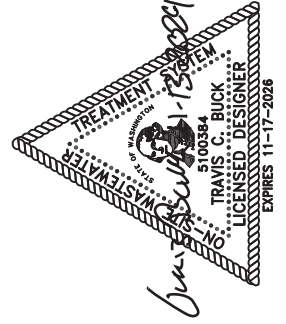
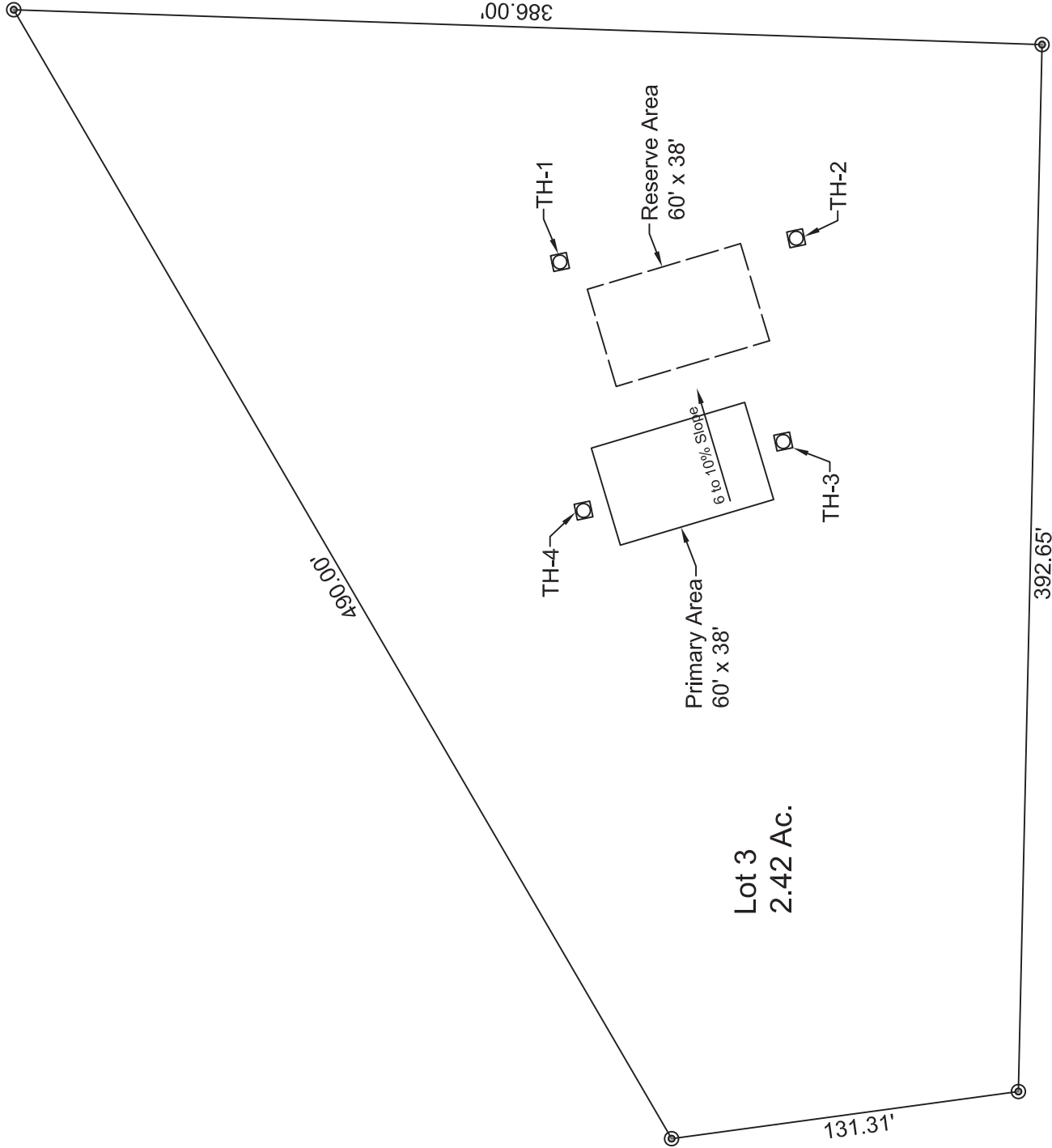
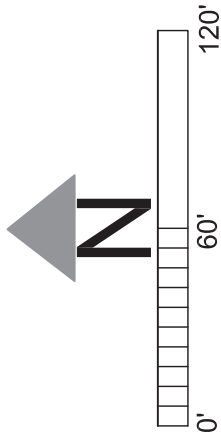
The primary area will require 900 sq. ft. of drain field and 2,250 sq. ft. of land area.

The reserve area has been designated for the use of a Standard Pressure Distribution system meeting Treatment Level E and will require 900 sq. ft. of drain field and 2,250 sq. ft. of land area.

**Other comments or concerns:** A concurrence with Cowlitz County EHU Health officers Brian Hetland and Nicholas Backotich was performed at the time the test holes were dug.

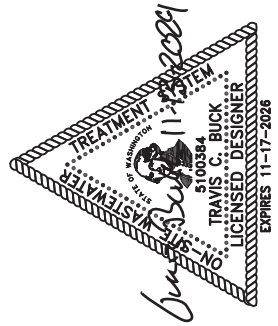
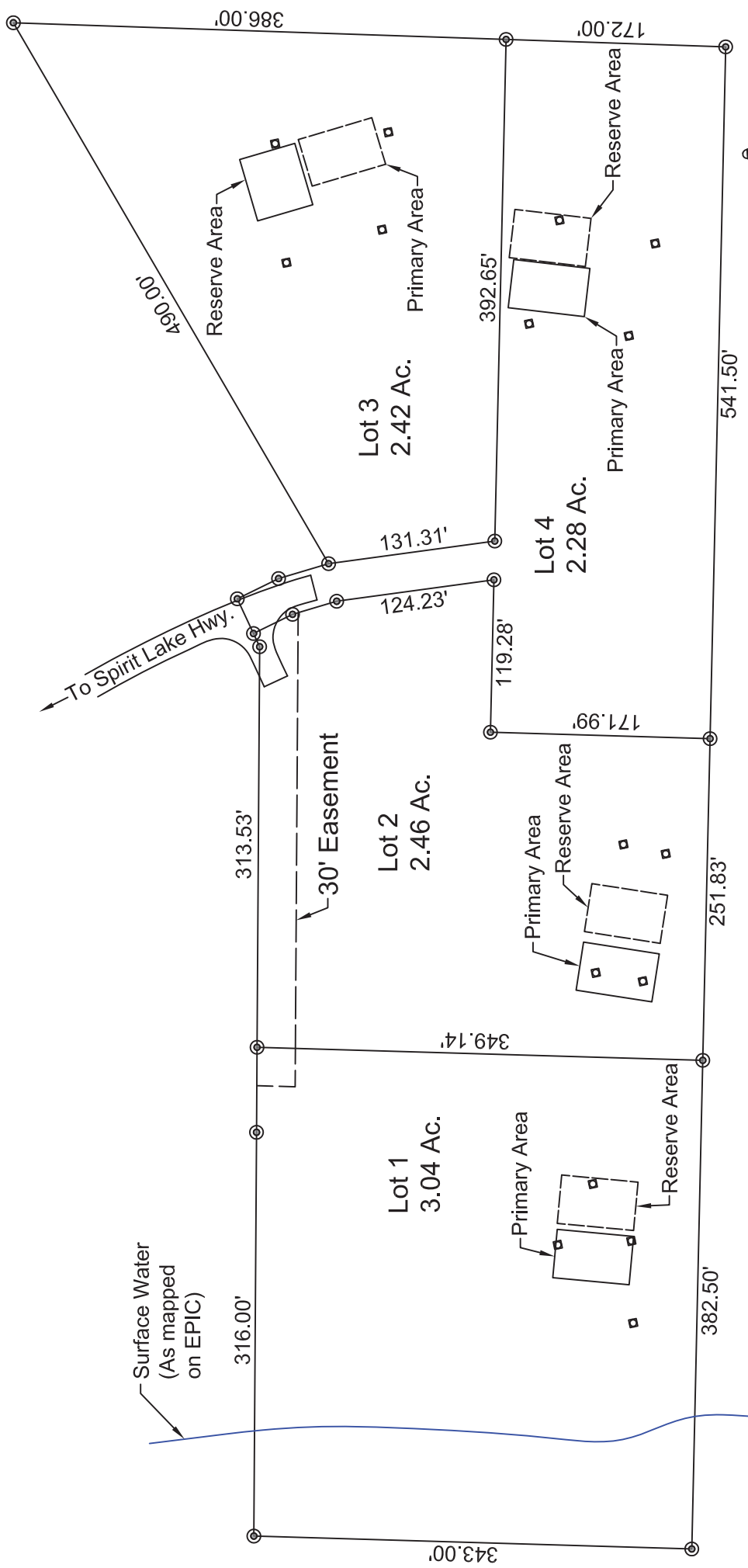






|   |   |  |                  |                 |
|---|---|--|------------------|-----------------|
| Chilton Inc.<br>Parcel Number: WF0620104<br>Castle Rock, Washington 98611 | Advanced Septic Consulting Inc.<br>3210 Westside Hwy. Castle Rock, Washington 98611<br>Cell: 360-433-5476 E-Mail: dirtwhisperer@gmail.com |  | Design: 24-239.3 | Date: 11/4/2024 |
|   |   |  | Drawing: 1       | Scale: 1" = 60' |





|   |   |                                      |
|---|---|--------------------------------------|
| Chilton Inc.<br>Parcel Number: WF0620104<br>Castle Rock, Washington 98611 | Advanced Septic Consulting Inc.<br>3210 Westside Hwy. Castle Rock, Washington 98611<br>Cell: 360-433-5476 E-Mail: dirtwhisperer@gmail.com |                                      |
|   | Design: 24-239<br>Drawing: 2  | Date: 11/13/2024<br>Scale: 1" = 120' |