

**SAGE** ARCHITECTURAL ALLIANCE



# LITTLE LAKE FOREST PARK TRAILHEAD FACILITY

SUBMITTED FEBRUARY 3, 2022

UTILITY EVALUATION

**RFP KC000114**



# Little Lake Forest Park Trailhead Facility

## **KC Project: #KC000114**

**Agency:** Department of Natural Resources and Parks  
Parks and Recreation Division

**Prepared By:** SAGE Architectural Alliance.

Contact: Valerie Thiel, PM (206) 694-3441 val@SageArchAlliance.com

## **KC Project Manager**

Mary Lear, PE, Capital Project Manager

Parks and Recreation Division

Phone: (206) 477-4749

Email: Mary.Lear@kingcounty.gov

## **Consultant Team**

Prime Consultant: Architect: SAGE Architectural Alliance

Landscape and Civil Engineer: MIG

Geotechnical Engineer and Biologist: Shannon & Wilson

Surveyor: Lanktree Land Surveying, Inc.

Septic Design: Harborstone Consulting, LLC

# Table of Contents

## Survey Data

By Lanktree Land Survey, Inc

## Site Photos

Taken by Lanktree Land Survey, Inc

Compiled by SAGE Architectural Alliance

## Ground Water Well and Utilities Memo

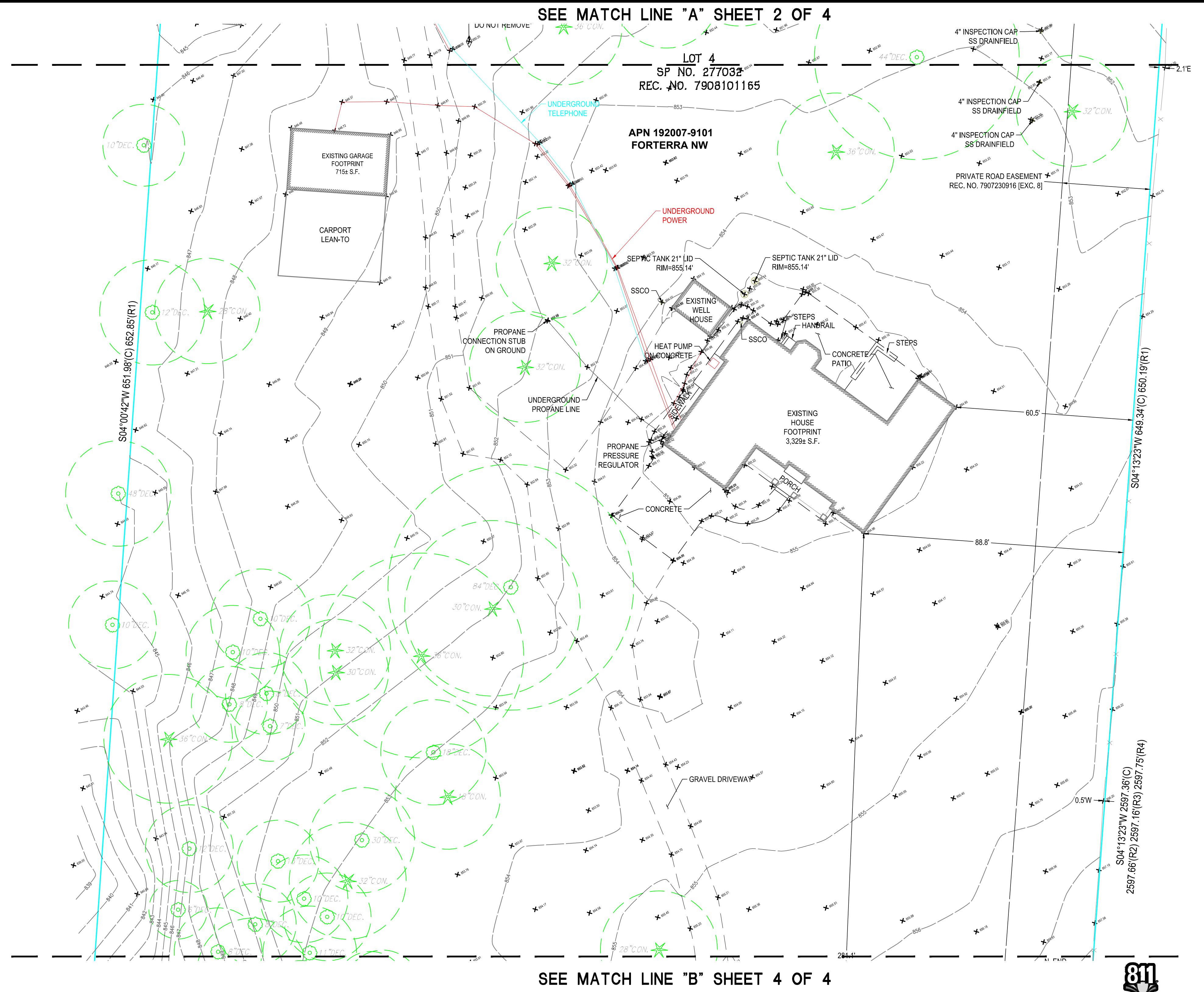
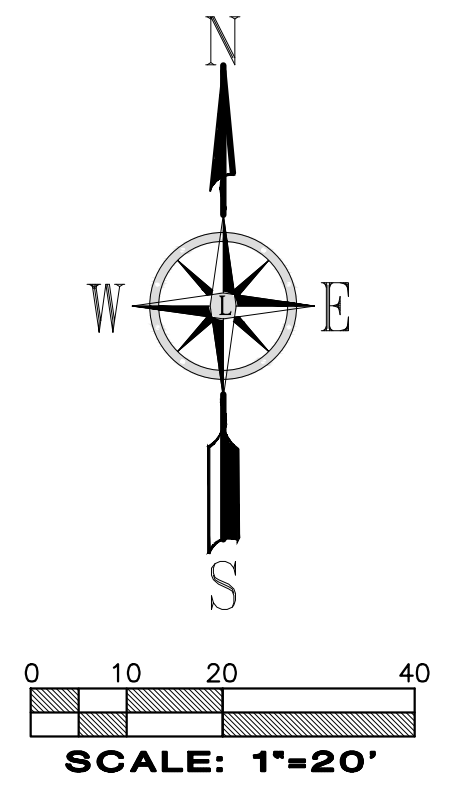
By MIG

## Existing Septic System Evaluation

By Harbor Consulting, LLC



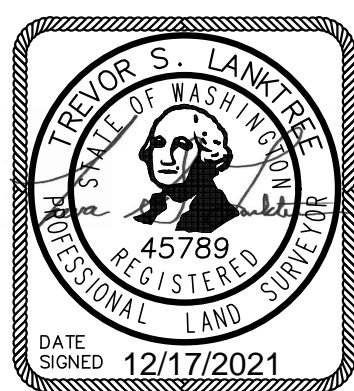




**LEGEND**

(NOTE: NOT ALL SYMBOLS MAY APPEAR ON THE MAP)

- SURVEY MONUMENT (AS NOTED)
- SECTION CORNER (AS NOTED)
- POWER METER (PM)
- TELEPHONE RISER (TR)
- TELEPHONE JBOX
- SANITARY SEWER MANHOLE (SSMH)
- SANITARY CLEANOUT
- GAS METER (GM)
- SIGN
- MAILBOX (MB)
- FENCE AS NOTED
- DECIDUOUS TREE
- CONIFEROUS TREE
- TREE DRIPLINE
- BUILDING LINE

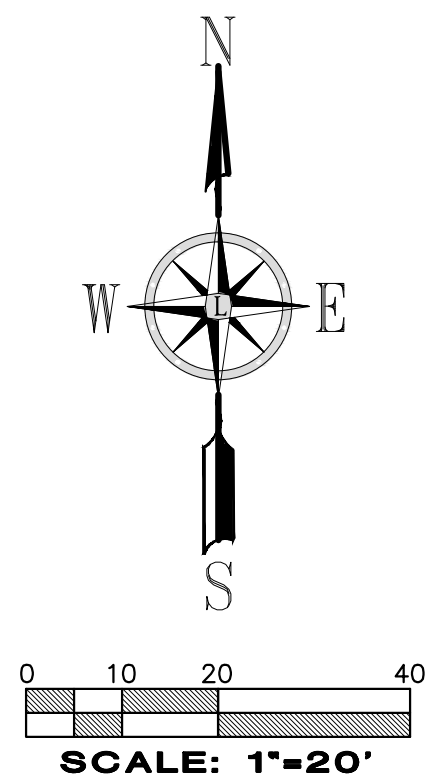
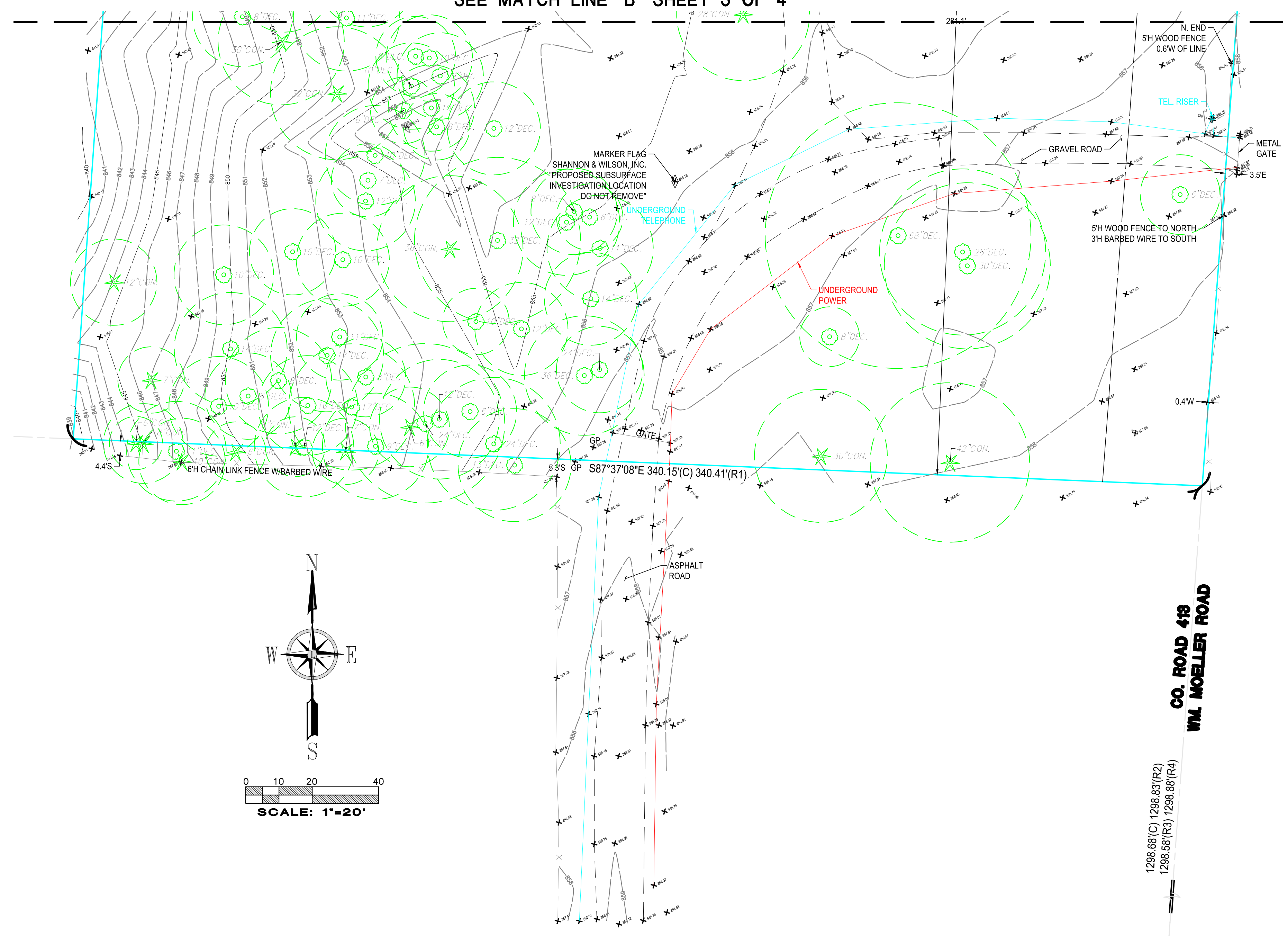


KNOW WHAT'S BELOW.  
CALL 2 BUSINESS DAYS  
BEFORE YOU DIG.  
(UTILITY LOCATIONS ARE APPROX.)

PARK/TRAIL/FACILITY NAME			PROJECT MANAGER: PM			DESIGN TEAM			<b>King County</b> Department of Natural Resources and Parks Parks and Recreation Division Capital Projects Section 201 S. Jackson St., Suite 700, Seattle, WA 98104 <i>Christie True, Director</i>	<b>LITTLE LAKE FOREST TRAILHEAD</b> SUBTITLE 29103 SE 434TH STREET ENUMCLAW, WA 98022			SHEET <b>3</b> OF <b>4</b> SHEETS
PROJECT #	DATE		REV #	REVISION	BY	DATE	ARCH.						
ISSUED							STRUCT.						
APPROVED							CIVIL						
REVIEWED							L.ARCH						
DRAWN							ENG.						
<b>BOUNDARY AND TOPOGRAPHIC SURVEY</b>									<b>SHEET</b>				

SEE MATCH LINE "B" SHEET 3 OF 4

- LEGEND**  
(NOTE: NOT ALL SYMBOLS MAY APPEAR ON THE MAP)
- SURVEY MONUMENT (AS NOTED)
  - SECTION CORNER (AS NOTED)
  - POWER METER (PM)
  - TELEPHONE RISER (TR)
  - TELEPHONE JBOX
  - SANITARY SEWER MANHOLE (SSMH)
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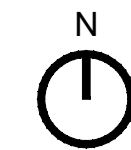


FOUND 5/8" BRASS PLUG IN CONC., DOWN 0.85" IN CASE, INX. 284TH AVE SE & SE 432ND STREET

N02°34'46"E 2682.85'(M) BASIS OF BEARING)  
2682.95'(R2) 2682.52'(R3) 2682.81'(R4)

FOUND 5/8" BRASS PLUG IN CONC., DOWN 0.70" IN CASE, INX. 284TH AVE SE & SE 440TH STREET N04°37'31"E, 23.29' OF CENTER SECTION

FOUND 0.75" IRON BAR, DOWN 1.65" IN CASE CL 284TH AVE SE (HELD FOR CENTER SECTION)



N88°32'43"W 2684.43'(M)  
2684.04'(R2) 2684.08'(R3) 2684.21'(R4)

1298.68'(C) 1298.83'(R2)  
1298.58'(R3) 1298.68'(R4)

FOUND 0.25" PIN IN CONC PYRAMID MONUMENT IN WOOD AT ANGLE POINT IN FENCE



KNOW WHAT'S BELOW.  
CALL 2 BUSINESS DAYS BEFORE YOU DIG.  
(UTILITY LOCATIONS ARE APPROX.)

PARK/TRAIL/FACILITY NAME		PROJECT MANAGER: PM				DESIGN TEAM		<b>King County</b> Department of Natural Resources and Parks Parks and Recreation Division Capital Projects Section 201 S. Jackson St., Suite 700, Seattle, WA 98104 <i>Christie True, Director</i>	LITTLE LAKE FOREST TRAILHEAD SUBTITLE 29103 SE 434TH STREET ENUMCLAW, WA 98022	SHEET 4 OF 4 SHEETS
PROJECT #	DATE	REV #	REVISION	BY	DATE	ARCH.				
ISSUED						STRUCT.				
APPROVED						CIVIL				
REVIEWED						L.ARCH				
DRAWN						ENG.		<b>BOUNDARY AND TOPOGRAPHIC SURVEY</b>	<b>SHEET</b>	





















# memo

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to **Valerie Theil, Sage Architectural Alliance**

from **Mark Davies, PE, MIG**

**Batseba Fukur, MIG**

re **Sage Architectural Alliance, Little Lake Forest Park Trailhead Facility  
Utility Evaluation – Technical Memorandum**

MIG #15224

date **February 3, 2022**

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This memorandum documents review of existing utilities and systems for evaluating the feasibility of developing a trailhead facility for King County Department of Natural Resources and Parks, Parks and Recreation Division's (County) for Little Lake Forest Park. The County is acquiring a 5-acre parcel near City of Enumclaw for the purpose of a trailhead (see Figure 1: Vicinity Map). Review of the existing utilities was done under MIG's contract with Sage Architectural Alliance.



Figure 1: Vicinity map from King County map (north is up).



MIG reviewed existing septic system, water (well system), electrical, telephone, franchise, and irrigation by reviewing the following information:

- Harborstone Consulting, LLC, Onsite Wastewater Feasibility Findings, December 26, 2021.
- Little Lake Forest Trailhead Boundary and Topographic Survey, dated 12/28/2021 from King County.

The following is a summary of our findings for each utility type.

### Power and Telephone:

Based on topographic survey, underground electrical lines run to the existing house on the project site from the private road on the north side of the property. There is an electrical cabinet and a telephone junction box at the northern entrance to the site. Telephone lines are also coming in underground from the north side of the site. Refer to Figure 2 and 3: Site Underground Power and Communication. There is also electrical and telephone entering from the south at the south entry. These lines leave the site to the east near the metal gate. Easements are not shown for these utilities passing through the site on the survey provided.



Figure 2: Site Underground Power and Communication

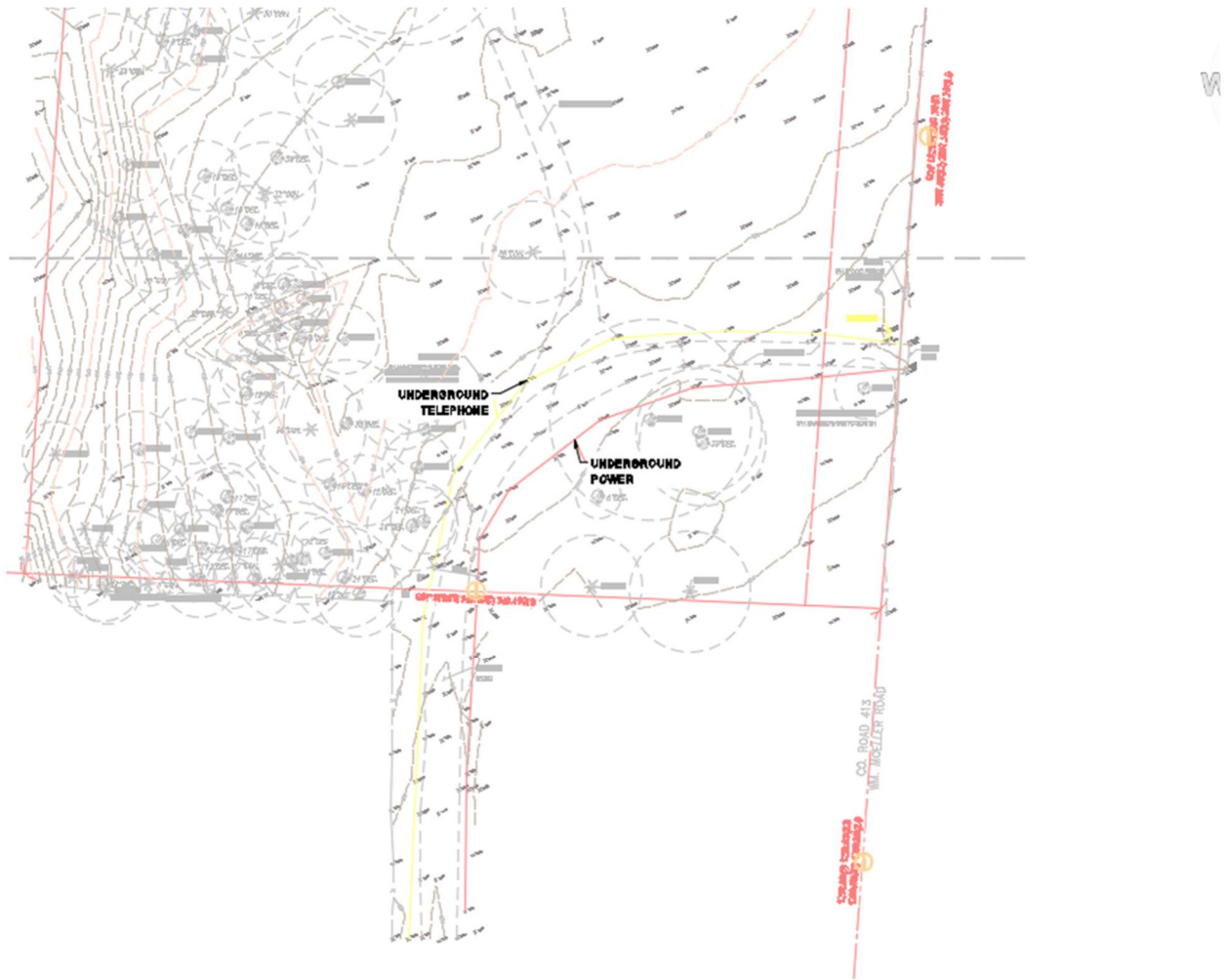


Figure 3: Site Underground Power and Communication

Gas:

A propane pressure regulator is currently located on the west corner of the residential house. Per the survey photos, a propane connection hose stub was observed on the ground with no tank. (See Figure 4: Photo of Propane Hose Connection)



Figure 4: Photo of Propane Hose Connection

Potable water:

The survey shows an existing well house located along the northwest side of the house. See Figure 5: Existing Well House and Figure 6: Photo of Well House. Water service lines not located on property. Size and capacity of the water system is not known.

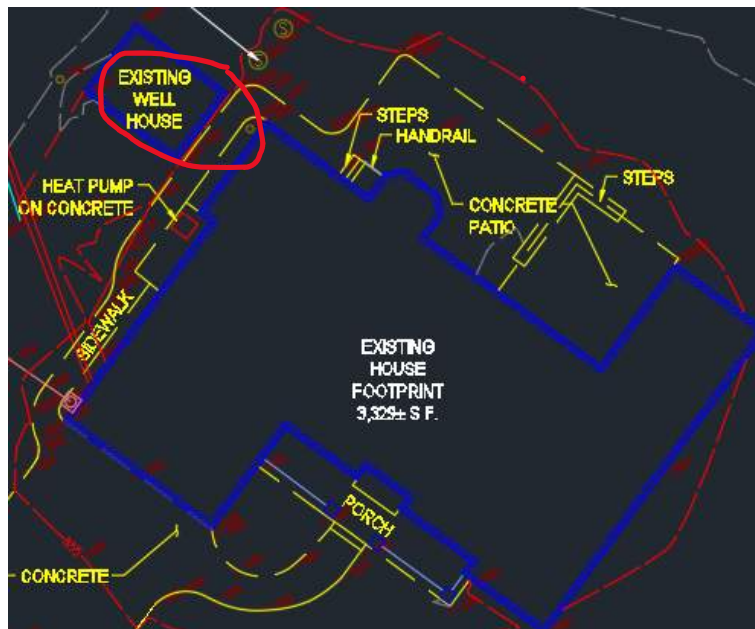


Figure 5: Existing Well House.



Figure 6: Photo of building labeled "Existing Well house" on survey.

Sanitary Sewer:

According to Harborstone's review of on-site wastewater, the existing on-site wastewater system was installed in May 2010 for the 3-bedroom two level residence with an operating capacity of 293 gallons and includes:

- "...an Evergreen EP1000, 1,000-gallon concrete septic tank, distribution box, 375 lineal feet of drainfield in four laterals with 12-18 inches of cover material over the drainfield and a 100 percent reserve drainfield area."

All downspouts and footing drain were noted to be diverted from drain field area. The septic tank is located northeast of the house. There is a 4" PVC transport pipe to the drainfield. The drainfield is 750 square ft total area. There is an abandoned septic and drainfield northeast of the current drainfield.

Advanced Septic Services Inc pumped out the existing septic holding tank and performed an inspection on December 14, 2021. See attached report. Due to a damaged distribution box, water in the vault and root intrusion in the drain field, Harborstone Consulting recommends replacing the on-site system.

## References:

Harborstone Consulting, LLC's Little Lake Trailhead Onsite Wastewater Feasibility Findings, December 26, 2021.

Little Lake Forest Trailhead Boundary and Topographic Survey, dated 12/28/2021 from King County.

## Onsite Wastewater Feasibility Findings

### Existing Onsite Wastewater System

According to King County Health Department records, the existing onsite wastewater system at 29103 SE 434th St., Enumclaw, parcel number 192007-9101 is a gravity system, installed in May 2010 and includes an Evergreen EP1000, 1,000-gallon concrete septic tank, distribution box, 375 lineal feet of drainfield in four laterals with 12-18 inches of cover material over the drainfield and a 100 percent reserve drainfield area, see attached.

### Condition of the Existing Onsite Wastewater System

A Advanced Septic Services pumped the existing septic tank and performed an inspection of the existing wastewater system on December 14, 2021, see attached report. The septic tank was full of clean, clear water; however, no visible leaks were observed inside the tank. The inspection also revealed the distribution box, located between the septic tank and the drainfield, has collapsed and is inundated with roots and the conveyance line between the septic tank and distribution box is broken at the distribution box. The camera scoping of the drainfield revealed that one of the drainfield laterals is also inundated with roots and standing clear water was observed in two of the other laterals.

### Conclusions of the Existing Onsite Wastewater System

Water infiltration into the septic tank indicates the septic tank is leaking, or water is infiltrating through the risers on the septic tank. The collapsed distribution box and broken conveyance line is likely the result of vehicular traffic over the area. Root intrusion in the distribution box and drainfield laterals is typically a result of poor maintenance of the area and tree growth too close to the wastewater system. Infiltration of water in the drainfield lateral is likely caused by high ground water or over saturation of the drainfield area.

Given the findings of the onsite wastewater system inspection, the existing septic system needs to be replaced. If the existing septic tank is not located under proposed structures, the tank can be decommissioned in place. Decommission of the existing tank will include pumping of the tank, removal of any risers and filling the septic tank with pea gravel. The drainfield can be decommissioned in place. All parts and pieces of the existing onsite wastewater system removed must be disposed of properly.

### Process for a New Onsite Wastewater System

The 2010 as-built drawing shows a reserve drainfield area just north of the existing drainfield. It may be possible to utilize the reserve drainfield, however, given codes and requirements have changed over the past 11 years, soil evaluation will need to be completed to determine the size and type of the new drainfield and location for a new drainfield reserve area. To determine soil type and depth, soil logs will need to be excavated and soils evaluated by a Washington State Licensed Onsite Wastewater Designer. Once the soil logs have been evaluated an onsite wastewater system will need to be designed by a Washington State Licensed Onsite Wastewater Designer and approved by King County Health Department. Preliminary estimates of the onsite wastewater system can be prepared by the designer. Upon approval of the onsite wastewater system design, bids can be secured from licensed, and King County approved onsite wastewater system installer.

### Preliminary Costs of a New Onsite Wastewater System

The cost to excavate the soils logs and evaluate the soils is approximately \$1,500, not including Health Department fees, if any. To determine the correct size and type of system for the application, design of the new system, submittal to King County Health Department is approximately \$7,500, not including any Health Department fees. The cost of the actual onsite wastewater system is unknown until the size and type of system has been determined.



Environmental Health Division, 14350 SE Eastgate Way, Bellevue, WA 98007, Tel. (206) 477-8050

Inspection Type: FOLLOW UP - Correction Status: Some Corrections Made

**Tax ID: 1920079101** **Inspection Date: 12/14/2021**

**GENERAL SYSTEM TYPE: Gravity**

**Site Address:** 29103 SE 434TH ST **City:** KING COUNTY  
**Mail Address:** \_\_\_\_\_ **City:** \_\_\_\_\_ **Zip:** \_\_\_\_\_  
**OSM Company:** A Advanced Septic Services, Inc. **OSM Name:** EJ McDaniel **OSM Tel#:** 253-435-9999

Submitted 12/21/2021 by:

**COMMENTS & GENERAL INSPECTION NOTES**

**Deficiencies Noted: deficiencies must be corrected to ensure proper longevity of the Onsite Sewage System.**

Septic tank pumped per customers request tank had clean clear liquid in it, un able to see any visual leaks at time of service home is currently vacant with no water onsite.  
 No stress test performed at time of inspection, ran camera down lines to verify lines are intact  
 While running camera discovered clean clear liquid in two of 4 laterals, suspect possible ground water issues found clear liquid aprox 75' out from d box in both lines. 1 of the 4 laterals has a root blockage aprox 50' from d box and unable to camera past this location. Lines all had minimal sludge and hairline root growth just outside of d box  
 D box and conveyance line are broken at d box, d box has riser to grade  
 Drainfield area over grown in spots from being vacant

**GENERAL SITE & SYSTEM CONDITIONS**

The General Site and System Conditions were:	Fully Inspected
All Components accessible for maintenance, secure and in good condition:	NO - See Comments
If a dye test was performed, did the dye surface? (N/A if no dye test)	N/A
Effluent leaking onto the surface of the ground from any component? (If yes, explain in comments)	NO
Improper encroachment (roads, buildings, etc.) onto component(s):	NO
Component settling problems observed:	NO
Subsurface components adequately covered	YES
Period average daily flow (gallons per day)	
Site maintenance required (e.g. Landscape maintenance) If yes, describe in comments:	YES - See Comments
Occupant compliance problem (occupant not operating the system properly). If YES, describe in notes:	NO
Structures connected to onsite sewage system occupied. If NO explain in comments:	NO
Alterations made to the OSS (valves adjusted, timer settings modified, ports installed, etc.) ( If YES, describe in notes):	NO
Risers and lids secured:	NO - See Comments
OSS Working Properly	NO - See Comments
Pre-failing Signs	NO
Record Drawing Modified	NO
Record Drawing New	NO
All tanks have risers to grade	YES
At the time of this inspection, were any risers or monitoring ports installed?	NO
Upon evaluation of the system were any repairs made? (If yes, please explain in comments)	NO

**ONSITE SEWAGE SYSTEM INSPECTION DETAIL**

<b>TANK: Septic Tank - 2 Compartment</b>		
This component was:	Fully Inspected	
Effluent level within operational limits (if NO explain in comments):	YES	
All required baffles in place (N/A = No baffles required):	YES	
Effluent Filter Cleaned (N/A = Not Present):	YES	
Compartment 1 Scum accumulation (Inches, if other specify):	0	
Compartment 1 Sludge accumulation (Inches, if other specify):	0	

Compartment 2 Scum accumulation (Inches, if other specify):	0	
Compartment 2 Sludge accumulation (Inches, if other specify):	0	
Pumping needed:	NO	
A modification/repair was completed on the component (If yes, provide detail in comments):	YES	
<b>Distribution: D-Box</b>		
This component was:	Fully Inspected	
Component appears to be functioning as intended:	NO	See Comments
A modification/repair was completed on the component (If yes, provide detail in comments):	NO	
<b>Drainfield (disposal): Gravity</b>		
This component was:	Fully Inspected	
Component settling problems observed:	NO	
Surface water, downspouts diverted away from drainfield:	YES	
Load test performed with satisfactory results (N/A = Not Performed):	N/A	
Evidence of vehicular traffic or livestock over drainfield:	NO	
Observation ports present and accessible:	YES	
A method, such as aeration, was used to reduce clogging of the biomat in this component (If yes, provide detail in comments):	NO	
A modification/repair was completed on the component (If yes, provide detail in comments):	NO	



**ON-SITE SEWAGE SYSTEMS (OSS)**

**AS-BUILT CERTIFICATION OF COMPLETION**  
(Submit in Quadruplicate)

ADDRESS OF PROPERTY

29103 SE 434<sup>TH</sup> ST  
(Street)  
ENUMCLAW  
(City)  
98022  
(Zip Code)

**OFFICE COPY**

SYSTEM TYPE GRAVITY PERMIT NO. 0 N 0 0 8 9 0 2 6 APN (PARCEL #) 1 9 2 0 0 7 9 1 0 1

LEGAL DESCRIPTION LOT 4 SP 277032

Owner DON WOOD Address 29103 SE 434<sup>TH</sup> ST ENUMCLAW 98022 Phone 360-825-0817  
 Designer MARY SEABRANDS Address 20219 SE 344<sup>TH</sup> ST AUBURN, 98092 Phone 253-333-9203  
 Master Installer BOB LEENSTRA Address 17302 SE 236<sup>TH</sup> RL KENT, 98042 Phone 253-261-1198

**INSTRUCTIONS TO (OSS) DESIGNER:** → ATTACH A SEPARATE SHEET FOR THE AS-BUILT DRAWING PLAN. USE A SCALE OF 1" = 20' OR 1" = 30' (max. paper size 11X17"). **ALSO:** COMPLETE AND SUBMIT THE AS-BUILT CHECKLIST/SYSTEM INFORMATION SHEET, INSTALLATION PERMIT, DOCUMENTATION OF FINAL COVER, AND OTHER DOCUMENTS APPLICABLE TO THE SYSTEM (Title 13 - SECTIONS 13.56.050 / 13.56.054)

**STATUS OF AS-BUILT**

- This as-built is **unsatisfactory** for the following reason(s): \_\_\_\_\_
- See attached comments/explanation

I hereby certify that the accompanying drawing and check list accurately represent the system installed at the address/parcel indicated above, and that all requirements and conditions (concerning plumbing stub elevations; maintenance of grades; fills; surface drains; etc.) indicated on the approved site design (or latest approved revision thereof) dated 12-10-07, have been complied with. I further certify that this system meets all requirements of the King County On-Site Sewage Code, Title 13, Code of the King County Board of Health.

Mary Seabands SIGNATURE OF DESIGNER      4/13/2010 DATE      PE 12730 CERTIFICATION NUMBER

**TO BE FILLED IN BY HEALTH DEPARTMENT ONLY**

APPROVED 5/26/10 BY: D Lopez  
Date

DISAPPROVED \_\_\_\_\_ BY: \_\_\_\_\_  
Date

Comments: old mobile removed

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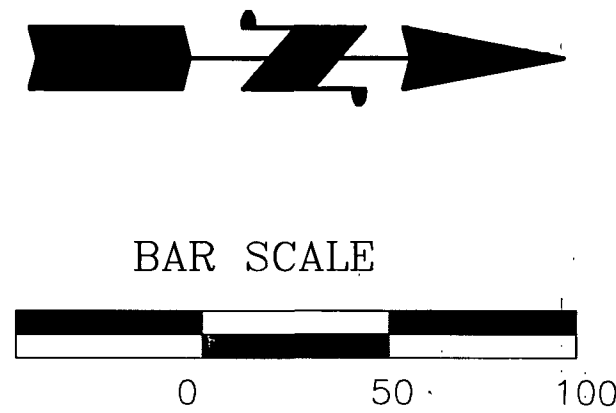
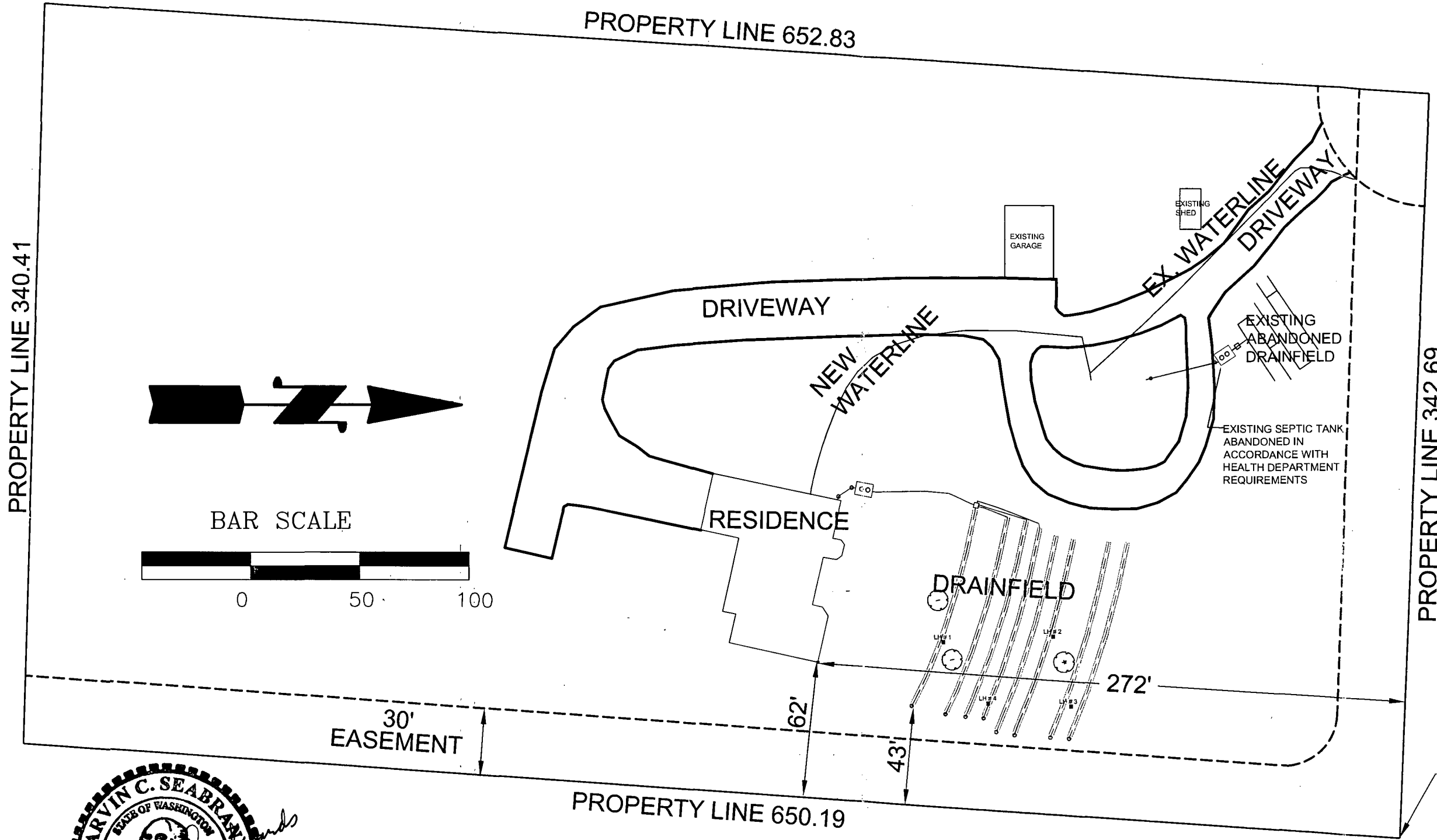
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RECEIVED  
**RECEIVED**  
MAY 12 2010  
BLACK RIVER  
ENVIRONMENTAL HEALTH

**NEW CONSTRUCTION: UNLAWFUL TO OCCUPY PREMISES WITHOUT HEALTH DEPARTMENT APPROVAL OF THE OSS / SEPTIC SYSTEM AS-BUILT CERTIFICATION**

**INSTRUCTIONS TO THE OSS OWNER/SYSTEM USER:**

PLEASE REFER TO YOUR OSS OWNER'S OPERATING MAINTENANCE AND TECHNICAL SPECIFICATIONS MANUAL AND NOTICE ON TITLE PERTAINING TO THE OSS. Your OSS has limitations! Overloading it or disturbing the soil absorption system (SAS) (e.g. drainfield, mound) may cause the system to fail. FOR FURTHER INFORMATION, CONTACT YOUR LOCAL HEALTH DEPARTMENT SERVICE CENTER: (206) 296-4932



# SITE PLAN

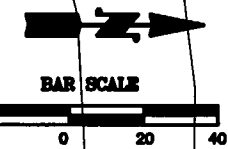
<p>OWNER: DON WOOD 29103 S.E. 434TH ST. ENUMCLAW WA. 98022</p>	<p>SEWAGE WASTE DISPOSAL SYSTEM</p> <p>SCALE 1"=50' 5-10-10</p>	<p>SEABRANDS ENGINEERING MARV SEABRANDS, P.E. 20219 S.E. 344TH AVE. S.E. AUBURN, WA. 98092</p>	<p>PARCEL NO. 192007-9101 ASBUILT 5-10-10 PERMIT # 0N0089026</p>
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PROPERTY LINE 340.41

PROPERTY LINE 652.83

PROPERTY LINE 342.69

PROPERTY LINE 650.19



3 BEDROOM TWO LEVEL RESIDENCE, LOWER FLOOR ELEVATION 101.5' PLUMBING STUB ELEVATION 99.5'-37" OF LATERAL DISTRIBUTION IN 2' WIDE TRENCH. MAXIMUM TRENCH DEPTH SHALL BE 24" IN DEPTH. ALL DOWNSPOUT AND FOOTING DRAINS TO BE DIVERTED FROM DRAINFIELD AREA. OPERATING CAPACITY 293 GAL.

TREATMENT LEVEL

A	CBOD (MG/L)	TSS (MG/L)	PC (#/100ML)
A	10	10	200



OWNER:  
DON WOOD  
29103 S.E. 434TH ST.  
ENUMCLAW WA. 98022

SEWAGE WASTE DISPOSAL SYSTEM

SCALE 1"=20' 5-10-10

SEABRANDS ENGINEERING  
MARV SEABRANDS, P.E.  
20219 S.E. 344TH AVE. S.E.  
AUBURN, WA. 98092

PARCEL NO. 192007-9101  
ASBUILT 5-10-10  
PERMIT # DN0089026

# OSS Performance Demonstration Report

All systems are to be tested with permanent wiring and permanent power. This form is to be included with the final As-built submission.

Fill out the following boxes according to system type:  
 Gravity 1, 2, 3, 9 Pump to Gravity 1, 2, 3, 4, 9 PD 1,2,3,4,5,6,7, 8, 9  
 Mound 1, 2, 3, 4, 5, 6, 7, 8, 9 Sand filter 1,2,3,4,5,6,7,8,9,10,11,12,13  
 Sand filter to Mound 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,12,13

1 System Type: Gravity PD Mound Sand Filter = SF/M, SF/PD, SF/Gravity Other specify \_\_\_\_\_

2 Permit Address 29103 SE 434<sup>TH</sup> ST Designer MARV SEABRANDS  
 Installation Permit No. H 0089026 Installer ROBERT LEENSTRA  
 Parcel No. \_\_\_\_\_ Date system tested/inspected 2-9-2010

3 Septic Tank: Size 1000 Manufacturer EVERGREEN Approval No. EP1000  
 Screened Outlet Baffle  Yes  No Make and Model No. TRITE  
 Water tight Test Satisfactory  Yes  No

4 Pump Tank: Size \_\_\_\_\_ Manufacturer \_\_\_\_\_ Approval No. \_\_\_\_\_  
 Pump Chamber gals/inch \_\_\_\_\_ Pump make/model /HP \_\_\_\_\_ voltage \_\_\_\_\_  
 Water tight Test Satisfactory  Yes  No

5 Pump System Performance:  
 Dose Volume (gallons) \_\_\_\_\_ Draw down per cycle (inches) \_\_\_\_\_  
 Doses per Day \_\_\_\_\_ Method: Residual Head Squirt Height \_\_\_\_\_  
 Pump run time per cycle (min) \_\_\_\_\_ GPM discharge \_\_\_\_\_

6 Timer:  
 Timed Dosing  Yes  No Control Panel make/model \_\_\_\_\_  
 Time pump ON \_\_\_\_\_ min. \_\_\_\_\_ sec. Time pump OFF \_\_\_\_\_ specify time increments  
 Timed dosing to (circle one) PD, Mound, SF, other \_\_\_\_\_

7 Lateral Diameter \_\_\_\_\_ Check valves (manifold)  Yes  No Monitoring ports in place \_\_\_\_\_  
 Orifice Size \_\_\_\_\_ Flow control valves  Yes  No Lateral Clean-outs in place \_\_\_\_\_  
 Orifice Spacing \_\_\_\_\_ Anti-siphon device  Yes  No Gravelless chambers  Yes  No  
 Orifice Orientation: \_\_\_\_\_ Orifice shields  Yes  No Alarm location \_\_\_\_\_  
 Manifold Diam. \_\_\_\_\_ Manifold Length \_\_\_\_\_

8 System drains between cycles  Yes  No Variation in orifice discharge rate over entire system < 15% Yes No  
 System meets performance standards on the design  Yes  No

	1	2	3	4	5	6	7	8
Lateral Length								
Orifice Spacing								
No. of Orifices								
Residual Head								

As the Installer of record I have verified all data in box #8 and it accurately represents the work that was performed at the site. Licensed Installers Signature \_\_\_\_\_ Date \_\_\_\_\_

9 I have inspected the installed OSS and conducted a performance test in accordance with the current DOH design standards and this system has passed the performance test and As-built inspection. All information accurately represents what I observed at the site.  
 Designer/Engineer Signature Marvin Seabrand Date 4/13/2010

I request final inspection from the Health Department  
 Note: failure to supply adequate information to evaluate system performance is grounds for rejecting the performance test and disapproving the installation.

**Seattle-King County Department of Public Health  
Environmental Health Division**

**ON-SITE SEWAGE DISPOSAL SYSTEM AS-BUILT CHECK LIST**

Address: 29103 SE434<sup>TH</sup> ST

Parcel #: 192007-9101

**TO BE COMPLETED BY THE DESIGNER/ENGINEER:**

**AS-BUILT CHECKLIST:** The following items must be checked off below and be included on the detailed as-built plot plan or the plan will be considered incomplete and will not be accepted. Additional information may be required pursuant to Title 13, the Code of the King County Board of Health.

**GENERAL**

01	Dimensioned plot plan to scale 1" = 20' or 1" = 30'	✓
02	Setbacks indicated (cuts, banks, lakes, streams wells, springs, driveways, water lines, walks, fills, pavement, etc.)	✓
03	Location, direction, of flow, and discharge point of all interceptor and/or curtain drains	✓
04	Location, size and shape of all buildings as related to septic system, include underground storage tanks	✓
05	Property and easement lines	✓
06	Utility lines	✓
07	North Direction Arrow	✓

10	Septic tank and septic tank pumpout lid	✓
11	Plumbing stub outlet(s)	✓
12	Closed-joint (solid) line between building and septic tank	✓
13	Closed-joint (solid) line between septic tank and distribution box or drainfield	✓
14	The distribution box (if required)	✓
15	Drainfield lines and length of each	✓
16	Drainfield stepdowns (if present)	—
17	Boundaries of permeable cover added and amount of cover added after installation	✓
18	Reserve area boundary	✓

**WATER SUPPLY**

08	Location of private water source or name of public water supply	✓
09	Location of water lines	✓

**PUMP SYSTEMS ONLY:**

19	Dosing tank (chamber) and dosing tank (chamber) lid	
21	Effluent and electrical lines	
22	Alarm system design and alarm location	

**SEPTIC SYSTEM INFORMATION:**

System Type GRAVITY

Drainfield marker or detection tape in place  (Y/N)

If not, Name of Licensed Surveyor \_\_\_\_\_

Downspout and Footing Drains Diverted  (Y/N)

Locking cover on Septic Tank (if required)  (Y/N)

Septic Tank Size 1000 gallons

Total Drainfield Area 750 sq. ft.

Total Drainfield Length 375 linear feet

Cover over Septic Tank 12 inches

Cover over Drainfield (min/max) 12 18 inches

Final cover in place  (Y/N)

Dosing tank (chamber) size \_\_\_\_\_ gallons

Pump Brand Name \_\_\_\_\_

Model \_\_\_\_\_

Pump Size \_\_\_\_\_

Pump Cycle Duration \_\_\_\_\_ minutes

Dose \_\_\_\_\_ gallons/cycle

Pump Tested  (Y/N)

Date Pump Tested \_\_\_\_\_

Date System Pressure Tested \_\_\_\_\_

Alarm Operational  (Y/N)

Monitoring Required  (Y/N)

Alarm Control Location \_\_\_\_\_

I HEREBY CERTIFY THAT THE INFORMATION CONTAINED HEREIN IS ACCURATE AND TRUE TO THE BEST OF MY KNOWLEDGE.



PE12730

4/13/2010

(Designer's Signature)

(ID Number)

(Date)

**DISTRICT HEALTH CENTERS**

**ALDER SQUARE**  
1404 Central Ave. S. Ste.101  
KENT WA 98032  
296-4666, 296-4708

**EAST**  
2424 156th Ave. N. E.  
BELLEVUE WA 98008  
296-4932

**CENTRAL**  
172 20th Ave.  
SEATTLE WA 98122  
296-4632

**NORTH**  
10501 Meridian Ave. N.  
SEATTLE WA 98133  
296-4838



Public Health  
Seattle & King County  
Environmental Health Division

021001

Permit No **ON0089026**  
Date Issued **02/02/2010**  
Expires **02/02/2012**

Unlawful to Alter or Deface this Permit — POST ON JOB SITE  
PERMIT IS NON-TRANSFERABLE

**PERMIT TO INSTALL NEW ON-SITE SEWAGE SYSTEM**

System Type	Gravity	Const. Type	N
Owner Name	WOOD DONALD L+LINDA M	Valid By	EEO100094
Bldg. Type	Single Family	Lot Number	
Parcel No	1920079101		
Location	29103 SE 434TH ST		
Plot Name			

(253)261-1198

Installer	LENBTRA, ROBERT	MI080
Designer	SEABRANDS, MARV	12730

- The installer must perform all work in accordance with Title 13 (Board of Health Rules and Regulations #3)
- Issuance of this permit does not constitute an approval of the site or work contemplated or performed.
- OCCUPANCY OF THE BUILDING AND USE OF THE SEWAGE DISPOSAL SYSTEM ARE PROHIBITED UNTIL AN AS-BUILT PLAN IS SUBMITTED TO AND APPROVED BY THE HEALTH DEPARTMENT.**

Mound Sys. Site Prep	_____	Designer	_____	Date	_____
Mound Sys. Bad Prep	_____	Designer	_____	Date	_____
Pressure Test	_____	Designer	_____	Date	_____

Do Not BACKFILL (Cover) system until BOTH Designer and Health Department (E.H.S.) have approved (OK'd) to BACKFILL.

OK To Backfill	<input checked="" type="checkbox"/>	Disapproved	_____	Date	<u>2-9-2010</u>
Designer	<u>MS</u>				
OK To Backfill	<input checked="" type="checkbox"/>	Disapproved	_____	Date	<u>2/11/10</u>
E.H.S.	<u>DKoppe</u>				
Final Cover (Approved)	<input checked="" type="checkbox"/>	Disapproved	_____	Date	<u>2-20-2010</u>
Designer	<u>MS</u>				

Corrections Required \_\_\_\_\_

(See reverse side for more corrections)

I, \_\_\_\_\_, (Master/Associate) Installer, was present at the above property supervising placement of final cover. Time \_\_\_\_\_ Date \_\_\_\_\_

I have complied with all the restrictions and recommendations as listed by the system designer, and certify that either I, or A Certified installer employed by me, was present AT ALL TIMES during the installation.

Name of Master Installer (please print)

Signature of Master Installer

Bob Lee STRA  
Lee

Date

2/8/10

**INSTALLERS BACKFILL NOTIFICATION  
REQUEST FOR FINAL INSPECTION**

Seattle-King County  
Department of Public Health  
Environmental Health Division

TO: Marv Seabrand  
(Designer)

Name of owner Sevan Const

Site address 29103 SE 439th ST  
(as appears on installation permit) ENUNCIAN

Installation Permit # ON0089026

I, [Signature] (Master/Associate Installer)  
(signature of installer)

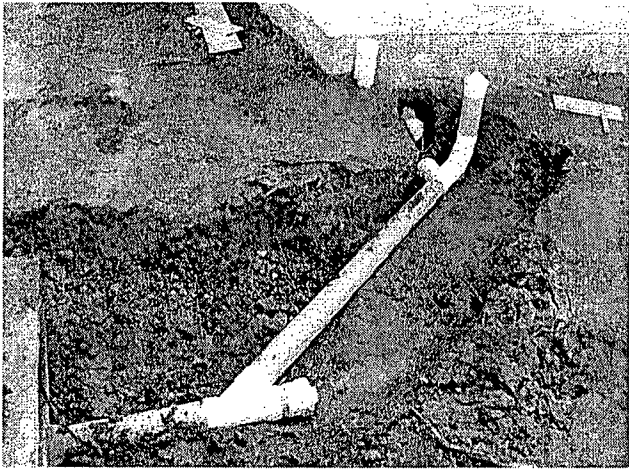
was present at this site placing or supervising placement of final cover on the date indicated (please check appropriate box).

Date Backfilled 2/15/10 19    
(placement of final cover)

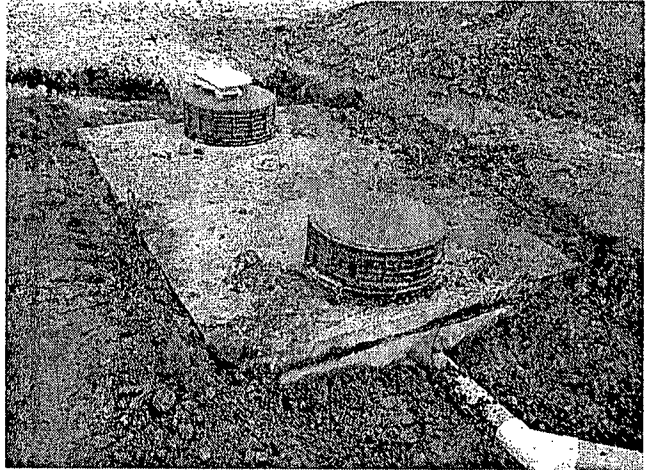
**Instructions:**

Certified Installer:

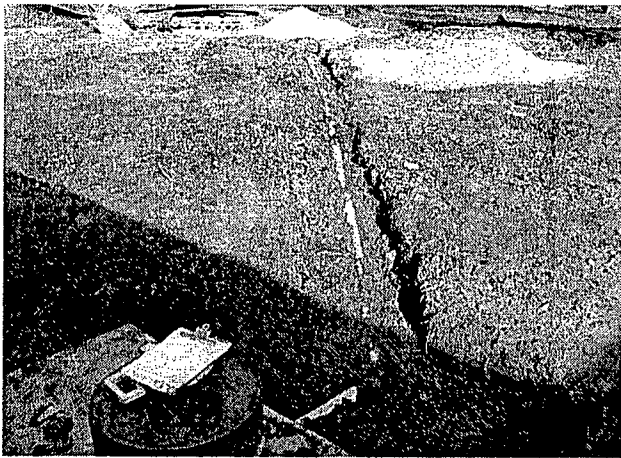
- (1) You must place or be physically present on the site to supervise placement of final cover material on this sewage disposal system;
- (2) This form may be used to certify that you have placed or supervised final cover placement (or you may use the designated space at the bottom of the installation permit) and to notify the designer that system is ready for final inspection;
- (3) Routing instructions: upon completion, this form is to be forwarded to the designer.



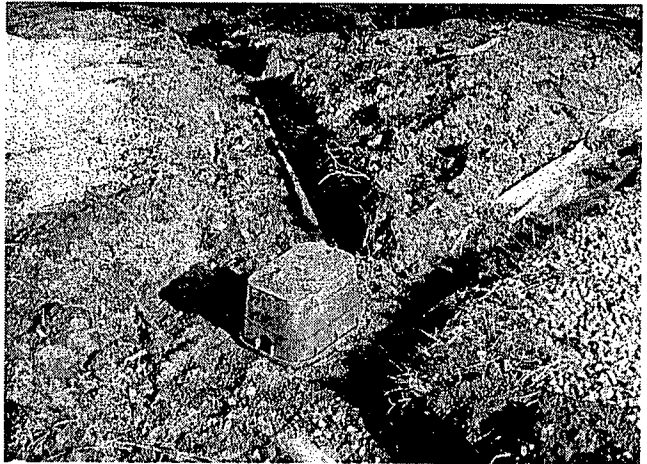
PLUMBING STUB



SEPTIC TANK



TIGHT LINE



DISTRIBUTION BOX



UPPER LINE



LOWER LINES



**REPORT OF WASTEWATER TANK  
ABANDONMENT**

**PUBLIC HEALTH  
SEATTLE & KING COUNTY**

Instructions for completing form: This form is to be completed by any persons permanently removing a septic tank, seepage pit, cesspool, or other on-site sewage system wastewater tanks from service. Complete and submit this report to the health officer within thirty (30) days of the abandonment. Authority: Chapter 13.04.054, the Code of King County Board of Health, Title 13.

**Return Completed Form to the Following Address:**  
**Community Environmental Health**  
**900 Oakesdale Ave SW**  
**Renton, WA 98057-5212**      **Phone (206) 296-4932**

**Date Received:**

**General Information (Please print):**  
Name of Owner/Occupant of Property: Don Wood  
Address: 29103 SE 434thEnumclaw  
Telephone: 253-261-6837  
Date of Report: 4/23/10

**Wastewater Tank Data:**  
Type of Sewage Tank:  Septic Tank     Pump Tank     Holding Tank     Other: \_\_\_\_\_  
Number of Compartments Pumped: Two  
Number of Gallons Pumped: 1000

Checklist Item	Yes	No	Not Applicable	Comments
Septage removed by an approved pumper?*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Tank lid removed or destroyed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Tank void filled with compacted soil?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

\*OSS Pumper Name: Frontier Septic  
King County Certification Number: \_\_\_\_\_

**Reason for wastewater tank abandonment:**  
 Property being served by public sewers     Property being served by replacement tank

**Comments:**

Signature: Jeff Wetts      Date: 4/23/10

# FRONTIER SEPTIC

253-862-1227 • 360-825-5580  
253-845-3278 • 253-631-9509

# ALL SERVICE SEPTIC

360-825-2869 • 253-887-8121

P.O. Box 1392, Enumclaw, WA 98022

## INVOICE

Date: 4-23-10 Terms: \_\_\_\_\_

Service Delivered:		Job Site:	
Name: <u>Don Wood</u>	Name:		
Address: <u>29103 SE 434<sup>th</sup></u>	Address:		
City, State, Zip: <u>Enumclaw</u>	City, State, Zip:		
Phone: <u>253-261-6837</u>	Phone:		AMOUNT
Pump: <u>out septic tank</u>			<u>325</u> <sup>00</sup>
Dig:			
Water			
Tax Percent:		TAX	<u>27</u> <sup>95</sup>
		TOTAL	<u>352</u> <sup>95</sup>

### Sewage Tank Data (Check/Circle all that apply):

Type of Sewage Tank: Septic Tank:  Pumptank: \_\_\_\_\_ Holding tank: \_\_\_\_\_ Other: \_\_\_\_\_

Number of Compartments Pumped: Two

Number of Gallons Pumped: 1000 Last Pumped unknown System Age \_\_\_\_\_

Checklist Item	Measurement	Satisfactory	Unsatisfactory	Not Applicable	Action Taken
Depth of Scum 1 <sup>st</sup> Compartment:	<u>20</u> (in.)				
Depth of Sludge 1 <sup>st</sup> Compartment:	<u>10</u> (in.)				
Depth of Scum 2 <sup>nd</sup> Compartment:	<u>3</u> (in.)				
Depth of Sludge 2 <sup>nd</sup> Compartment:	<u>6</u> (in.)				
General Tank Condition	<b>X</b>				
Locking-type lid(s)					
Riser(s) at Grade					
Inlet Baffle Condition					
Outlet Baffle Condition					
Effluent Baffle Screen Condition					
Effluent Baffle Screen Cleanliness					
Tank Leakage					
Groundwater infiltration					
Surface Runoff Infiltration					

Description of other Service and / or Recommendations:

Tank is to be Decommissioned.

Signature of Certified OSS Pumper : JEFF WETTON

*Jeff Wetton*

RETURN ADDRESS

Terry Sevon  
28114 SE 432  
Enumclaw Wa 98022



20100128000208

SEVON HOMES 066 66.00  
PAGE-001 OF 004  
01/28/2010 10:14  
KING COUNTY, WA

Please print neatly or type information

Document Title(s)

OSSM

on site sewage sybi

Reference Number(s) of related documents

Additional Reference #'s on page \_\_\_\_\_

Grantor(s) (Last, First, and Middle Initial)

Don wood  
Linda wood

Additional grantors on page \_\_\_\_\_

Grantees(s) (Last, First, Middle Initial)

THE PUBLIC

Additional grantees on page \_\_\_\_\_

Legal Description (abbreviated form: L.e. lot, block, plat or section, township, range, quarter/quarter)

1920079101 section 19 Township 20 Range 07

Additional legal is on page \_\_\_\_\_

Assessor's Property Tax Parcel/Account Number

1920079101

Additional parcel #'s on page \_\_\_\_\_

**NOTICE OF ON-SITE SEWAGE SYSTEM  
OPERATION AND MAINTENANCE REQUIREMENTS**

Assessor's Tax Parcel ID#: 192007 9101

1. I/We (print) \_\_\_\_\_, are the owners of real property within King County, which is legally described as follows:  
Section 19 township 26 Range 07  
29103 S.E. 434th  
Enumelaw Wash. 98022

2. The above-described real property is served by an on-site sewage system ("OSS").

3. The Code of the King County Board of Health, Section 13.60.005 establishes certain responsibilities of the OSS owner with respect to the operation and maintenance of an On-site Sewage System, as follows

A. The OSS owner is responsible for the continuous proper operation and maintenance of the OSS, and shall:

1. Determine the level of solids and scum in the septic tank at least once every three (3) years for residential system with no garbage grinder and once every year if a garbage grinder is installed and, unless otherwise provided in writing by the health officer, once every year for commercial systems.
2. Employ an approved pumper to remove the septage from the tank when the level of solids and scum indicates that removal is necessary.
3. Cause preventive maintenance/system performance monitoring inspections to be conducted and any indicated service to be performed by an approved person at a minimum frequency in accordance with Table 13.60-1 unless otherwise established by the health officer or the sewage review committee.

**Table 13.60-1  
Minimum Frequency of Preventive Maintenance/Performance Monitoring**

	Gravity Systems	Public Domain Technology <sup>2</sup>	Proprietary Technology <sup>3,5</sup>	Commercial and Food Establishments	Non-Discharging Toilets <sup>6</sup>
Initial Inspection:	6 months	6 months	45 days	45 days	N/A
Regular Inspection Frequency	Every 3 years	Annually	Every 6 months	Annually or Every 6 months	Annually
Who May Perform the Inspection	Owner, Licensed Maintainer or Licensed OSS Pumper	Licensed Maintainer	Licensed Maintainer	Licensed Maintainer	Owner

**Table 13.60-1 Explanatory Notes**

1. The initial inspection is to be performed at the time interval indicated following occupancy.
2. Public domain technology includes such systems as: mounds, intermittent sand filters and pressure distribution.
3. Proprietary Technology includes such systems as: ATUs, Glendon up-flow fillers, Advantex pack bed filters and subsurface drip.
4. At least an annual septic tank maintenance check is required if the structure served is equipped with a garbage grinder waste disposal unit. If a screened outlet baffle is present an annual check is recommended. Pumpers shall report each pumping event to the health officer in accordance with BOH chapter 13.68.

- 5. Table 13.60-1 specifies the minimum required monitoring frequency. A more stringent monitoring frequency shall be used if recommended by the manufacturer.
- 6. This monitoring is in addition to that required for the OSS receiving the building's non-toilet liquid waste.  
(KCBOH)

Note about Monitoring Frequency: The above table reflects the King County BOH Title 13 code dated September 2008. The King County BOH Title 13 code is subject to change.

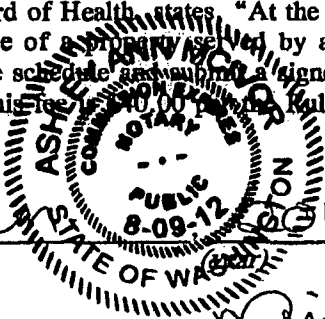
- 4. Operate and maintain all OSS in accordance with this title, with pertinent alternative system guidelines issued by the DOH [State of Washington Department of Health] and with the approved OSS owner's operating and maintenance instruction manual.
- 5. Protect the OSS area including the reserve area from:
  - a. Cover by structures or impervious material;
  - b. Surface drainage;
  - c. Soil compaction, for example, by vehicular traffic or livestock; and
  - d. Damage by soil removal and grade alteration.
- 6. Maintain the flow of sewage to the OSS at or below the approved design both in quantity and waste strength.
- 7. Direct drains, such as footing or roof drains away from the area where the OSS is located.

B. The owner shall not allow:

- 1. Use or introduction of strong bases, strong acids or organic solvents into an OSS for the purpose of system cleaning;
- 2. Use of a sewage system additive unless it is specifically approved by the DOH; or
- 3. Use of an OSS to dispose of waste components atypical of residential wastewater, for example, but not limited to, petroleum products, paints, solvents, or pesticides.

4. Note about Operation and Maintenance Program Fee: Rules and Regulations 02-01, amendment to the Code of the King County Board of Health, states "At the time of sale or transfer of property ownership, the buyer or transferee of a property served by an OSS shall forward to the health officer a fee as set forth in the fee schedule and submit a signed copy of the notice on title as set forth in Section 13.56.054A." This fee is \$40.00 per year. Rules and Regulations 02-01, effective June 17, 2002.

Dated this 26 day of June, 2010  
(month)



[Signature]

[Signature]

(Owner's signature)

(Owner's signature)

STATE OF WASHINGTON )

COUNTY OF KING ) ss  
 )

On this 26th day of January, 2010, before me personally  
(month) (year)  
appeared Donald Wood and Linda Wood, to me  
known to be the individual(s) described herein and who executed the foregoing instrument as  
his/her/their free and voluntary act and deed for the uses and purposes herein stated.

Given under my hand and official seal this 26th day of January, 2010.  
(month) (year)

Ashley Ann McEvor  
NOTARY PUBLIC in and for the State of Washington  
Notary Public in and for the State of Washington  
Residing at Enumclaw Washington  
My Commission Expires 8/09/12



OFFICE COPY

Public Health - Seattle and King County
Site Design Application Form for Individual On-Site Sewage System (OSS)
(Submit 5 copies of application with 4 copies of plans)

Record I.D. Number
ON 0052104
Department Use Only

Approximate Site Address: 29103 SE 434TH ST

ATTACH A DETAILED ROUTE/DIRECTION MAP FOR LOCATING THE PROPERTY.

Name and address of property owner DON WOOD

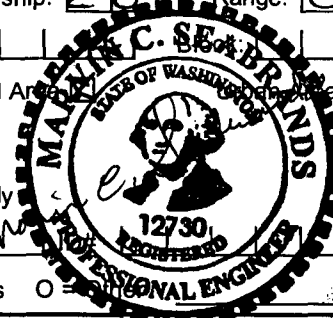
Applicant Name: WOOD DON
Street Address: 29103 SE 434TH ST
City-Zip Code: ENUMCLAW 98022
Phone: [ ]

Designer: MARV SEABRANDS
Street Address: 20219 SE 344TH ST
City-Zip Code: AUBURN 98092
Phone: 253-333-9203

THIS IS NOT A PERMIT

PROPERTY INFORMATION:

Parcel # (APN) 1920007911011 Section: 19 Township: 20 Range: 07
Subdivision Name: LOT 4 KING CO SHORT PLAT SP272032
Property Size [ ] Sq. ft. Acreage: 5.1
Distance from property line to nearest sewer: 2000
Water Supply [ ] (IP) I = Individual [X] Group A Supply [ ] Group B Supply
Public Water Supply Name: RAVEN VALLEY WATER CO.
Sensitive Area: [N] (Y?N) If yes, specify [ ] (L,W,O) L = Landslide W = Wetlands O = Other



SYSTEM INFORMATION:

New System [X] Repair Design [ ] Correction of OSS Failure? [ ] Y?N Detailed Plans Attached [ ] Y?N
Type of Building [ ] [S] [F] SF = Single Family MF = Multiple Family COMM = Commercial INST = Institutional
Type of System Proposed: [ ] - [G] G = Gravity GP = Gravity with pump M = Mound SF = Sand Filter
PD = Pressure Distribution HT = Holding Tank CT = Composting Toilet E = Experimental O = Other
Dates Soils Logged: 111707 Soil Logs Data Attached: (Min. 4/lot) [Y] Y?N
Depth to Waterable or Restrictive Layer: 60 Inches Maximum Slope in Drainfield/Reserve Area [4] %

CALCULATIONS:

Number of bedrooms: 3 Total Gallons/Day (450 minimum): 450 Gal. Soil Texture Type (1A-5) 4
Application Rate: 66 Gal/sq ft/day Total Absorption Area: 750 Sq. ft. Trench Width 24 inches
Total Drainfield Length: 375 Ft. Septic Tank Size: 1000 Gal. Garbage Grinder [N] Y?N
Pump Chamber Size (if needed) [ ] Gal. Trench Depth (min/max): 12 / 24 inches

I understand that failure to comply with the Code of King County Board of Health Title 13 may result in the disapproval of the sewage system being proposed in this application. Non-compliance may lead to revocation of my Designer's Certificate of Competency and/or appropriate legal action by the Health Department.

Designer's Signature: Marv Seabrand K.C. ID# PE 12730 Date: 12-12-07

FOR HEALTH DEPARTMENT USE ONLY:

NOTE: SYSTEM MUST BE INSTALLED BY A KING COUNTY CERTIFIED INSTALLER UNLESS OTHERWISE PROVIDED BY CODE

APPROVED (date): 5/9/2008 BY: [Signature]

Comments [ ]

Pre-construction meeting required between designer, installer, builder prior to permit issuance
APPROVAL OF THIS DESIGN APPLICATION IS BASED SOLELY ON INFORMATION PROVIDED IN THIS APPLICATION AND DOES NOT CONSTITUTE PERMISSION TO BEGIN CONSTRUCTION OF THE PROPOSED SEWAGE DISPOSAL SYSTEM OR ANY OTHER IMPROVEMENTS ON THE SITE. THIS APPROVAL SHALL NOT BE CONSIDERED AN ASSURANCE, EITHER EXPRESSED OR IMPLIED, THAT DEVELOPMENT PERMITS FOR THE SITE WILL BE ISSUED. THIS APPLICATION EXPIRES TWO YEARS FROM DATE OF APPROVAL.

DISAPPROVED (date): [ ] BY: [ ]

See attached Site Deficiency Sheet. Any person aggrieved by any decision or final order of the Health Officer may file a written application for appeal to the Health Officer within 60 calendar days of the date of the above decision. (Title 13, K.C.B.O.H. Chapter 13.12 - Sewage Review Committee). CS 13.15.97 Rev.7/21/00

RECEIVED
RECEIVED
DEC 13 2007
EASTGATE ENVIRONMENTAL HEALTH

\$396

20219 SE 344<sup>th</sup> Street  
Auburn, WA 98092  
253-333-9203

.....

# Seabrand's Engineering

May 5, 2008

Leonard Di Toro REHS  
Eastgate Public Health Center  
14350 SE Eastgate Way  
Bellevue, WA 98007

**RECEIVED**  
MAY 07 2008  
EASTGATE PUBLIC HEALTH

Subject: Hold letter for Don Wood ON0082424

Dear Leonard:

Per Your hold letter of 4/21/2008, I am submitting the requested revisions to the design. The existing sewage system for the mobile home has been shown on the site plan in accordance with the as-built drawing that you provided. The bench mark has been more accurately described as to it's location in the field. The bar scale has been revised to accurately scale the indicated scale. A recent water bill from the Raven Valley Water Company is enclosed indicating that there is current water service to the property.

Per our recent telephone conversation you indicated that I could just provide the site plan and design sheets and you would integrate them into the package. I am enclosing 4 copies of each sheet and 1 copy of the water bill.

If you have any questions or concerns, please contact me.

Yours truly,



Marv Seabrand's P. E.

**RECEIVED**  
MAY 7 2008  
EASTGATE PUBLIC HEALTH

.....





**Public Health**  
Seattle & King County

HEALTHY PEOPLE. HEALTHY COMMUNITIES.

David Fleming, MD, Director and Health Officer

April 21, 2008

Marv Seabrands  
20219 SE 344<sup>th</sup> Street  
Auburn, WA 98092

**Re: Site Application Hold Letter**

**Address: 29103 SE 434<sup>th</sup> Street**  
**Parcel No: 1920079101**  
**Owner: Don Wood**

**Activity: ON0082424**

Dear Mr. Seabrands:

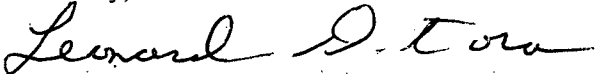
Public Health has received your Site Application located at the above referenced property. Public Health cannot complete the review of your application at this time. In order for your application to be properly evaluated, we will need the following:

1. The existing on-site sewage system (OSS) was incorrectly located on the plot plan. A sewer line cleanout was observed at the North end of the existing mobile home. Review the enclosed as-built drawing for further details on the existing OSS location.
2. The location and description of the design control point was not indicated.
3. The bar scale on the 1" = 50' plot plan is not correctly scaled.
4. A valid water availability letter or current water service invoice was not included with your application.

You are advised that the above information must be fulfilled by **May 28, 2006**. If this is not accomplished within the designated time period, the application will be disapproved and a new application will be required. New applications require a new fee and will be reviewed for compliance with rules in effect at the time of resubmittal.

If you have any questions, please contact me at (206) 296-9743 between the hours of 8:00 AM and 5:00 PM or leave a message on my voice mail.

Sincerely,



Leonard Di Toro, REHS  
Health and Environmental Investigator II  
Community Environmental Health

Marv Seabrandts  
April 21, 2008  
Page 2

LD:vo

cc: Don Wood

Enclosures: As-built drawing

**Note:** Please return this letter with any submission of materials to Public Health. This helps us match the resubmission with your previous application.



## King County

### Department of Development and Environmental Services

900 Oakesdale Avenue Southwest  
Renton, WA 98057-5212

**206-296-6600** TTY 206-296-7217

[www.metrokc.gov](http://www.metrokc.gov)

October 24, 2007

Jerry Hanson  
GLC Construction Inc.  
41407 196<sup>th</sup> Avenue SE  
Enumclaw, WA 98022

RE: Critical Areas Designation L07SA571, Parcel 192007-9101  
Status: Complete

Dear Mr. Hanson:

The above referenced parcel was recently reviewed for a Critical Areas Designation. The review consisted of a site inspection on October 23, 2007, and involved in-office review of existing background data and critical areas mapping.

The result of our review is that we have determined that this parcel is mapped within a Critical Aquifer Recharge Area, a critical area. All three categories of CARA have development restrictions that affect industrial and commercial practices. However, only Category I and Category II CARAs have development restrictions that might affect residential development, and only for parcels less than one acre in size. This property is greater than one acre in size; therefore, the CARA designation will not affect normal residential development.

Please note that the conclusions that are presented here regarding Critical Aquifer Recharge Areas are vested for five years. "Vested" critical areas are specifically listed in the zoning code (21A.24.500) and include Critical Aquifer Recharge Areas, Landslide Hazard Areas, Steep Slope Hazard Areas, Wetlands, all Aquatic Areas, and Coal Mine Hazard Areas.

The purpose of this review is to determine the location and classification of critical areas on your site that might affect your proposed development activities, and is not an approval of existing or proposed development. Additional reviews, including but not limited to drainage, clearing, compliance with critical area codes, and fire flow may occur during the building permit review process. Please include a copy of this letter and any attachments when are applying to the Health Department for septic system design approval or water well site approval.

If you have any questions or would like to discuss this designation further, please call me at 206-296-7012 or send email to [andrea.gates@kingcounty.gov](mailto:andrea.gates@kingcounty.gov) .

Sincerely,

Andrea Gates  
Senior Ecologist  
Critical Areas Section, Land Use Services Division

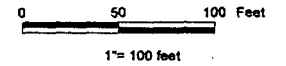
Enclosure: Site map

Permit: L07SA571  
Parcel: 1920079101  
Staff Name: AGAT  
Accuracy: Non-Surveyed  
Date: Oct 23, 2007  
Valid Until:



CARA II applies to  
parcel

APPROVED  
BY Andrea Yates  
K C CRITICAL AREA REVIEW  
DATE 10/24/07



The information included on this map has been compiled by King County staff from a variety of sources and is subject to change without notice. King County makes no representations or warranties, express or implied, as to the accuracy, completeness, timeliness, or rights to the use of such information. King County shall not be liable for any general, special, indirect, incidental, or consequential damages including, but not limited to, lost revenues or lost profits resulting from the use or misuse of the information contained on this map. Any sale of this map or information on this map is prohibited except by written permission of King County.

Soil Logs  
Don Wood

Date: 11/17/2007

**Log Hole Number**

LH-1

0-8" Topsoil

8-38" sandy loam with roots

38-60" loamy fine sand

LH-2

0-7" Topsoil

7-22" sandy loam with roots

22-60" loamy fine sand

LH-3

0-12" Topsoil

12-35" sandy loam

35-72" loamy fine sand with some clay

LH-4

0-8" Topsoil

8-23" sandy loam

23-66" loamy fine sand with some clay and cobbles

800-H-5

Application Notes

Application Type: Site Design      Designer/Installer: Seabrand

Name: Wood, Don      Address: 29103 SE 434<sup>th</sup> St.      ID#: 020002424

Date:	Notes:	ID:
	450 GPD - Gravity Disapproved At-Built for existing OSS added to file	
4/14/08	Site Visit	LPT
(P)	SL#1: 0-14" Dk. Br. Loam; 14"-60" Br. Sandy Loam.	
(R)	SL#2: 0-8" " " " ; 8"-54" " " "	
(R)	SL#3: 0-9" " " " ; 9"-54" " " "	
(P)	SL#4: 0-8" " " " ; 8"-54" " " "	
	- Slope ~ 3%	
	* Located clearest @ North end of trailer per as-built; existing OSS not correctly located on Designer Plot Plan.	

12/13/07



**SEATTLE-KING COUNTY DEPARTMENT OF PUBLIC HEALTH  
ENVIRONMENTAL HEALTH SERVICES**

ADDRESS OF PROPERTY 29103 SE 434 St  
Enumclaw (City) 98022 (Zip)

AS-BUILT SEWAGE DISPOSAL PLAN  
 (Submit in Quadruplicate)

LEGAL DESCRIPTION: KCSP 277032  
Lot 4

PERMIT NO. H9.O.P.1866

PARCEL #: 19,200,791,01

Owner <u>Henry Vander Well III</u>	Address <u>29103 SE 434 St Enumclaw 98022</u>	Phone <u></u>
Designer <u>Mark Tooley</u>	Address <u>23416 SE 216th Maple Valley 98038</u>	Phone <u>432-7372</u>
Master Installer <u>Stett Co.</u>	Address <u>28620 Maple Valley Rd SE 98038</u>	Phone <u>255-3546</u>
Associate Installer <u>Bill Kutz Jr.</u>	Address <u>Same</u>	Phone <u>Same</u>

I hereby certify that the accompanying drawing is an accurate representation of the system installed at the listed address. I further certify all recommendations and restrictions (concerning plumbing, stub elevations, maintenance of grades, fills, surface drains, etc.) listed by me on my approved site plan (or latest approved revision thereof) dated 11-7-90 have been compiled with. I further certify that this system meets all requirements of the Rules and Regulations established under King County Board of Health Rules and Regulations 3 or City of Seattle Ordinance No. 90181 (whichever is applicable).

38

NO BACKFILL NOTIFICATION

11-13-90

CERTIFICATE NO

SIGNATURE OF DESIGNER

DATE

**TO BE FILLED IN BY HEALTH DEPARTMENT ONLY**

Date Accepted	Actions Subsequent to As-Built Approval		
	Date	Action	Sanitarian
Date Not Accepted <u>6-17-93</u>			
Signature of Sanitarian <u>[Signature]</u>			
Remarks: <u>backfill not done by Stett - they would not sign for backfill - then would designer. Verified w/ Mark Tooley</u>			

**INSTRUCTIONS TO DESIGNER:** YOU MAY USE THE REVERSE SIDE OF THIS FORM FOR THE DRAWING OR ATTACH A SEPARATE SHEET. USE A SCALE OF 1" = 20' OR 1" = 30'. ALSO COMPLETE AND SUBMIT THE AS-BUILT CHECKLIST AND SYSTEM INFORMATION SHEET.

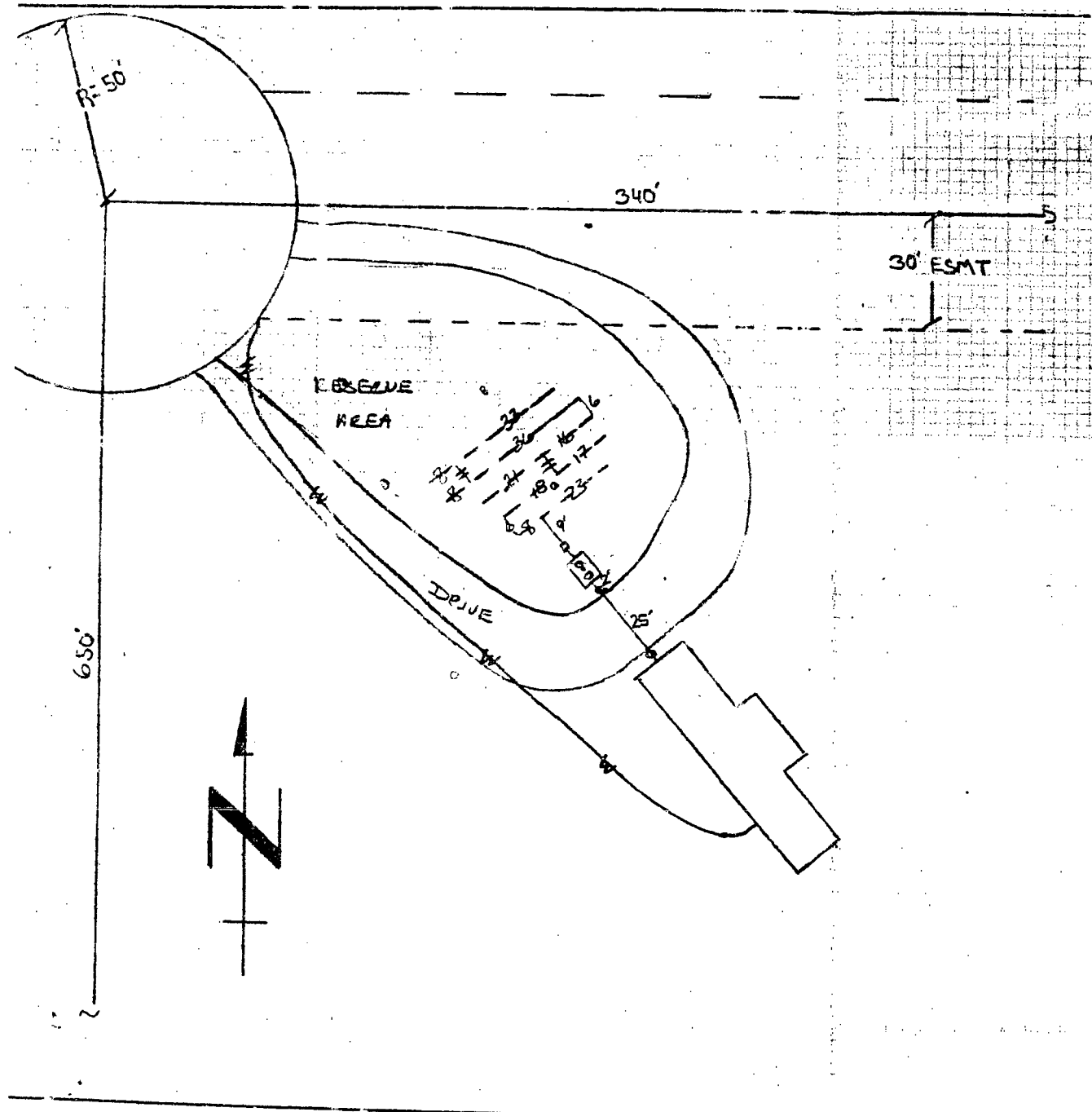
**ATTENTION HOME OWNER:**

Your septic system has limitations! It was designed and installed to care for an average-sized family. Overloading the septic tank or disturbing the drainfield may cause the system to fail. Points to remember:

1. Have your tank checked every 2-3 years to see if pumping is necessary.
2. Do not channel ground water, surface water, footing drains or downspouts into the septic tank or drainfield area.
3. Do not excavate, fill, place a structure, driveway or patio in, on, or over the drainfield or reserve area.
4. Do not use the toilet for disposal of coffee grounds, cigarette butts, feminine hygiene products, etc.
5. Detergents and bleaches used in normal household quantities will not harm the septic system.



29'03" SE



NOTES  
 ✓ AS-BUILT DRAWING  
 Ⓞ SERIAL DISTRIBUTION

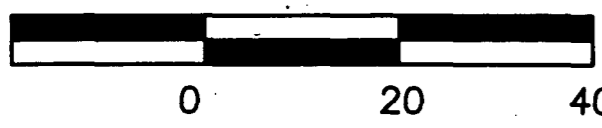
TOOLEY CO  
 432 7372  
 23416 SE 216TH  
 MADISONVILLE ARK 72008

LEGEND  
 SCALE 1" = 30'  
 1000 GALLON SEPTIC TANK  
 200' FEET DRAINFIELD  
 W WATER LINE  
 # TIGHT LINE (STE'DOWN)  
 O CLEAN OUTS

DATE 03-18-01  
 DRAWN MFT  
 DWG. NO.  
 SCALE 1" = 30'



BAR SCALE



EXTEND EXISTING WATERLINE TO SERVE NEW RESIDENCE

EXISTING MOBILE HOME TO BE REMOVED

ABANDON EXISTING SEPTIC TANK IN ACCORDANCE WITH HEALTH DEPARTMENT REQUIREMENTS

APPROVED  
SEATTLE-KING COUNTY  
DEPT OF PUBLIC HEALTH  
*[Signature]*  
5/9/2008  
EHS  
DATE

PROPOSED RESIDENCE

DRIVEWAY

NEW WATERLINE  
MONITORING PORTS (SEE DETAIL)  
4" PERFORATED DRAINFIELD PIPE (TYP.)

CLEAN OUT  
1000 GALLON SEPTIC TANK

4" SCHED 40 PVC TRANSPORT LINE

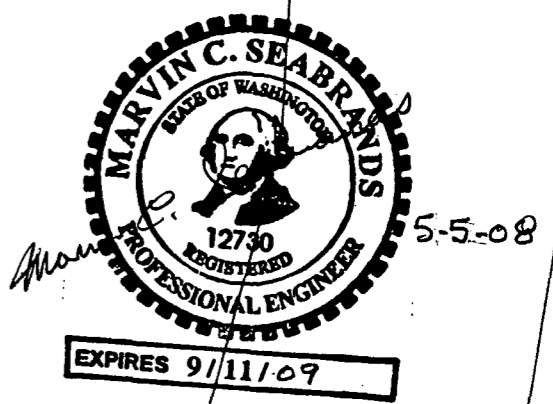
100% RESERVE AREA

3 BEDROOM TWO LEVEL RESIDENCE, LOWER FLOOR ELEVATION 101.5' PLUMBING STUB ELEVATION 99.5'- 375' OF LATERAL DISTRIBUTION IN 2' WIDE TRENCH. MAXIMUM TRENCH DEPTH SHALL BE 24" IN DEPTH. ALL DOWNSPOUT AND FOOTING DRAINS TO BE DIVERTED FROM DRAINFIELD AREA.

EXISTING 30' EASEMENT

INSPECTION BOX

EXISTING 30' EASEMENT



OWNER:  
DON WOOD  
29103 S.E. 434TH ST.  
ENUMCLAW WA. 98022

### SEWAGE WASTE DISPOSAL SYSTEM

*[Symbol]* SCALE 1"=20' 12-10-07

SEABRANDS ENGINEERING  
MARV SEABRANDS, P.E.  
20219 S.E. 344TH AVE. S.E.  
AUBURN, WA. 98092

PARCEL NO. 192007-9101

PROPERTY LINE 340.41

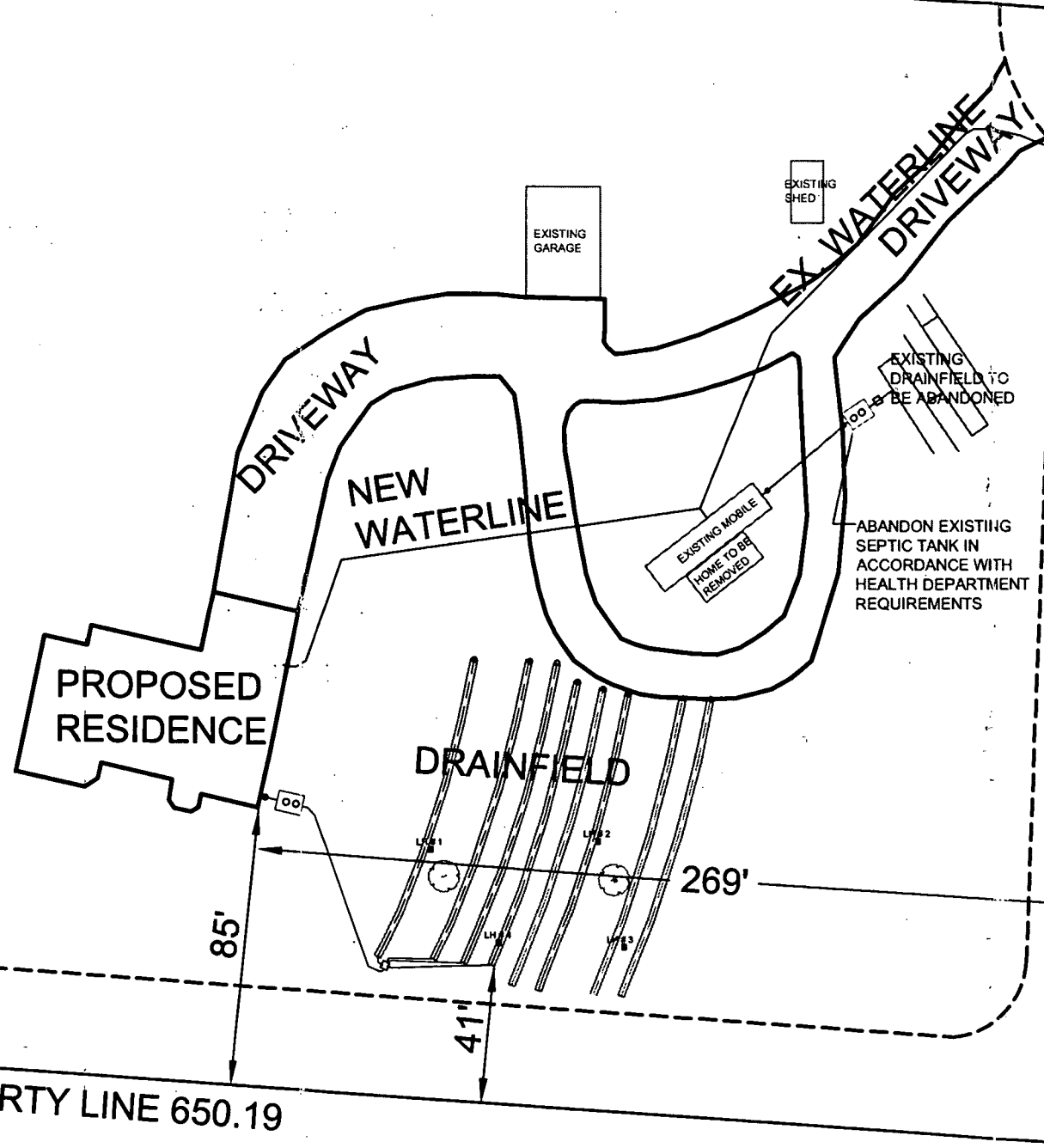
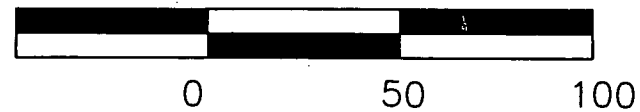
PROPERTY LINE 652.83

PROPERTY LINE 342.69

PROPERTY LINE 650.19



BAR SCALE



APPROVED  
SEATTLE-KING COUNTY  
DEPT OF PUBLIC HEALTH

*Leah O...*  
5/9/2008  
EHS  
DATE



EXPIRES 9/11/09

BENCH MARK ELEVATION  
91.0', 4' STEEL FENCE POST  
WITH STRING LINE WEST  
AND BARBED WIRE SOUTH

# SITE PLAN

OWNER:  
DON WOOD  
29103 S.E. 434TH ST.  
ENUMCLAW WA. 98022

## SEWAGE WASTE DISPOSAL SYSTEM

SCALE 1"=50' 12-10-07

SEABRANDS ENGINEERING  
MARV SEABRANDS, P.E.  
20219 S.E. 344TH AVE. S.E.  
AUBURN, WA. 98092

PARCEL NO. 192007-9101