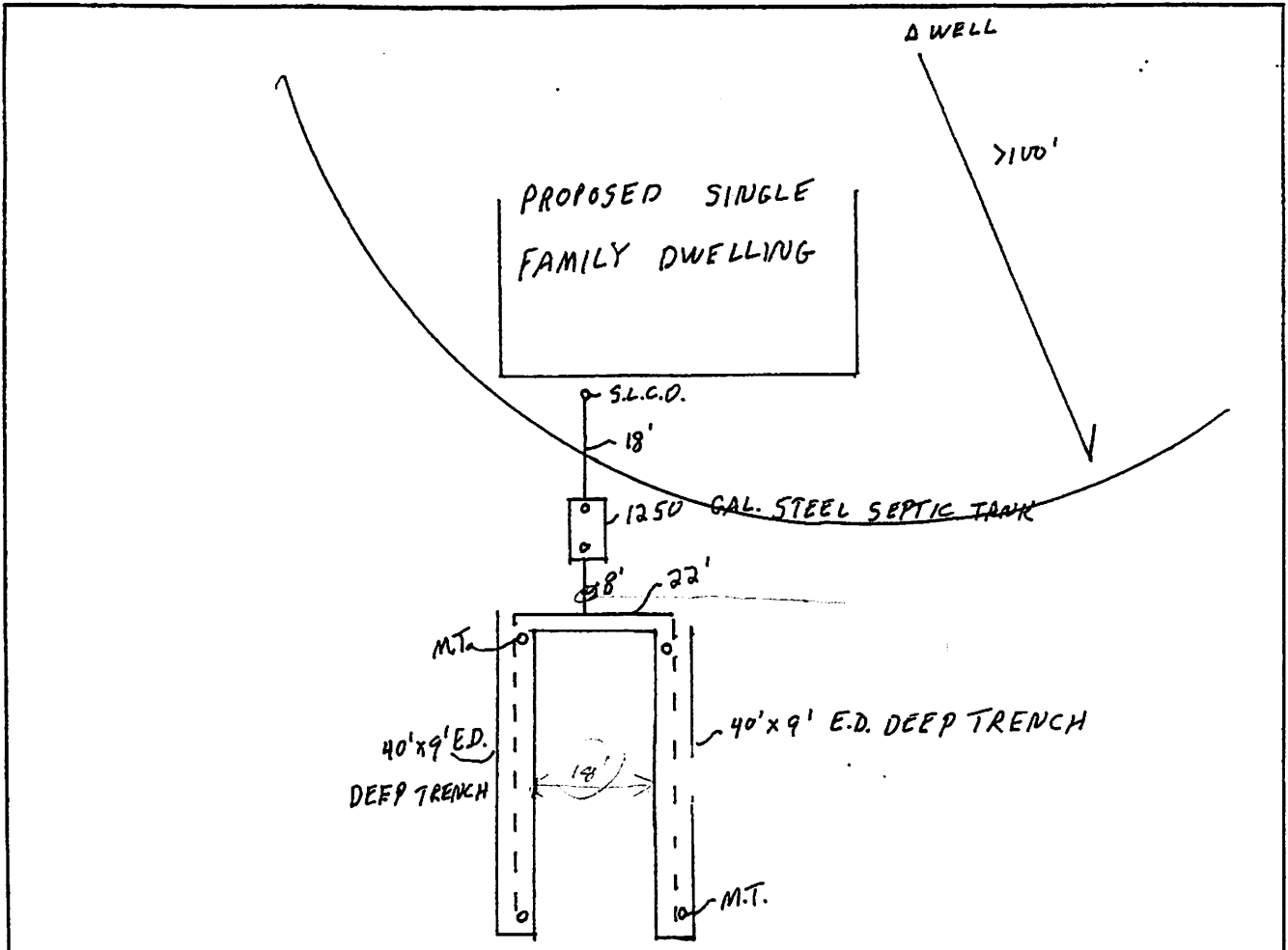
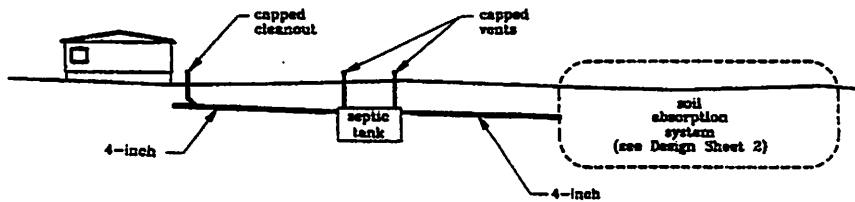


### IV. DIAGRAM OF SYSTEM



**SEPTIC SYSTEM PLOT PLAN**

All dimensions and locations are approximate.



**SEPTIC SYSTEM PROFILE**



## Conventional Single Family Residential SEPTIC SYSTEM DESIGN Sheet 1 of 2

Legal Description **LOT 1, BLOCK 2, INLET VIEW**

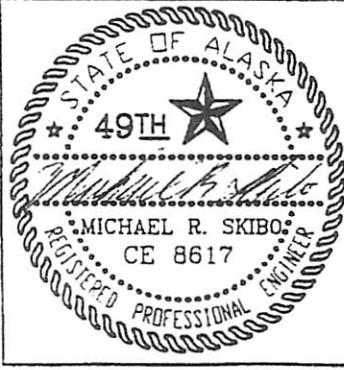
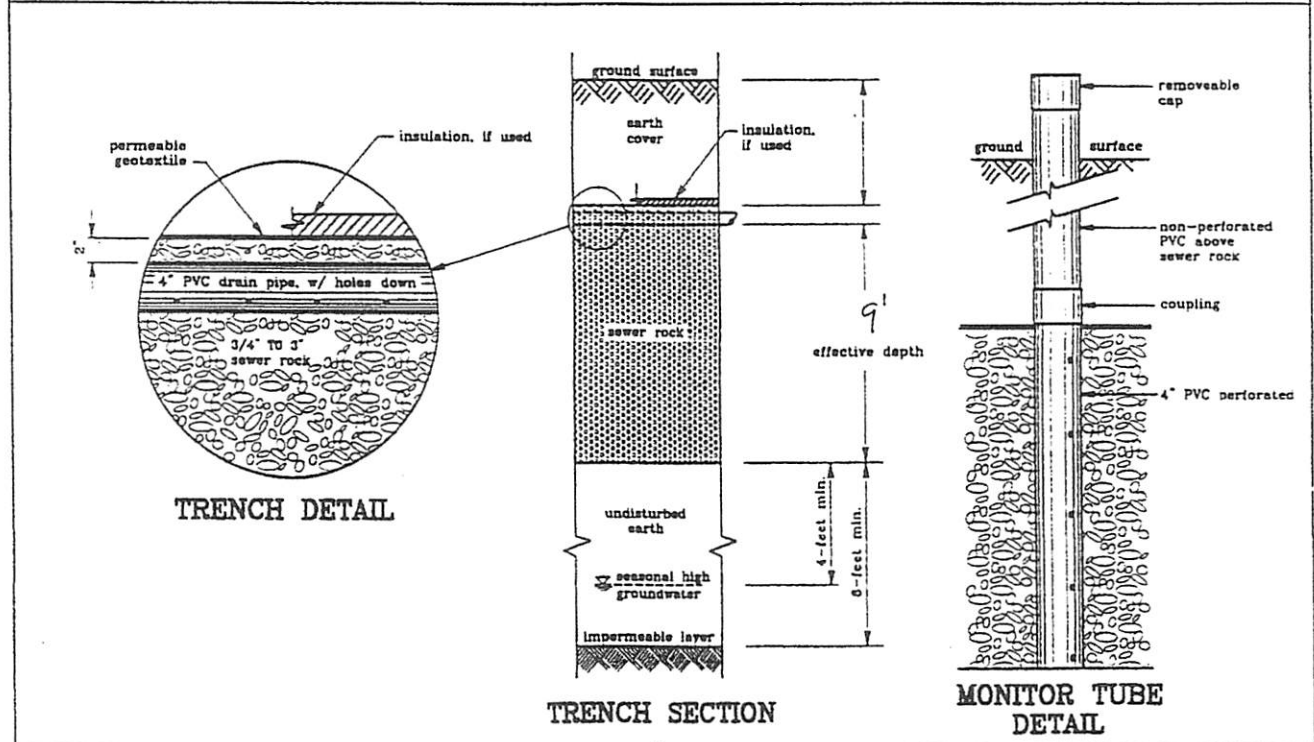
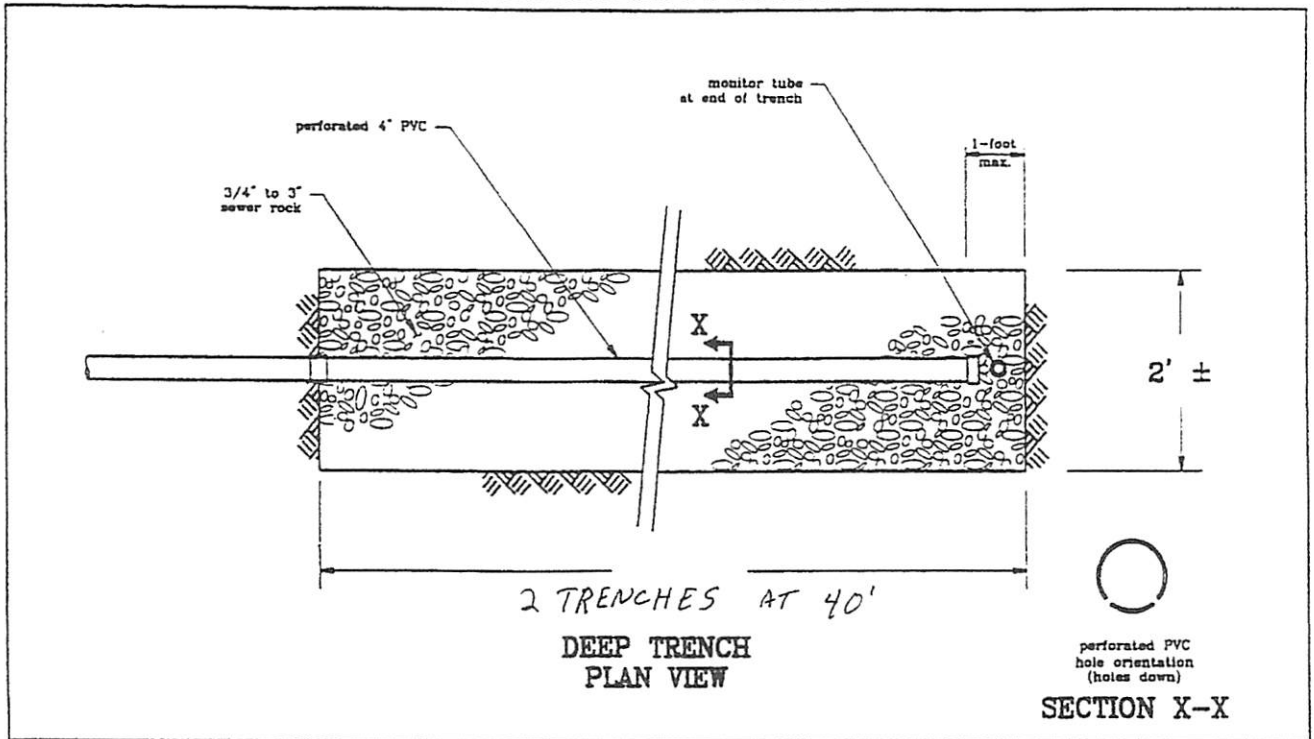
### RECORD DRAWING

This record drawing represents the as-constructed condition of the improvements documented above. Based on periodic visual observations and information obtained from the installer, this data appears reasonable and represents that the project was constructed in general conformance with current 18 AAC 72 regulations and ADEC policies.

Alaska Rim Engineering, Inc. Design Date 6/21/06 Completed Date 7/13/06 No Scale

REV 960522 SHIT.DWG

# IV. DIAGRAM OF SYSTEM



Conventional Single Family Residential  
**SEPTIC SYSTEM DESIGN** Sheet 2 of 2

Legal Description *LOT 1, BLOCK 2, INLET VIEW*

**RECORD DRAWING**

This record drawing represents the as-constructed condition of the improvements documented above. Based on periodic visual observations and information obtained from the installer, this data appears reasonable and represents that the project was constructed in general conformance with current 18 AAC 72 regulations and ADEC policies.

Alaska Rim Engineering, Inc. Design Date 6/21/00 Completed Date 7/13/00 No Scale

SHITZ, DTI.DWG REV 000017

# SOIL LOG

**Project: Lot 1, Block 2, Inlet View**

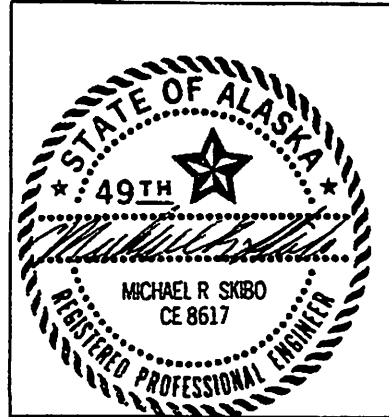
**Date: June 21, 2000**

**Logged By: Kent Sheets**

## TEST HOLE NO. 1

AK Rim File No. 00-00311

Depth (feet)	Description
1	Top Soil
2	
3	Gravel, Sand w/ Fines (GM)
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	Bottom of Test Hole
19	
20	
21	
22	
23	
24	



**TEST HOLE LOCATION:**

Within 25' of proposed SAS.

**COMMENTS:**

No water or impermeable layers were encountered.

This soil log was prepared for the sole purpose of determining the feasibility of constructing an onsite wastewater disposal system at the location of the test hole. Soil type ratings are based on visual observation and have not been verified with laboratory analyses. These soils have not been analyzed for structural properties, structural stability, and seismic stability or for any purpose other than wastewater absorption field construction. Anyone relying on the information in this log for any use other than wastewater absorption field development shall do so at his or her own risk.

# PERCOLATION TEST

Project: **Lot 1, Block 2, Inlet View**

Date: **June 21, 2000**

Test Hole Depth: **6 - Feet**

Inspector: **Kent Sheets**

Start Soak: **10:00**

AK Rim # **00-00311**

End Soak: **1415**

## TEST NO. 1

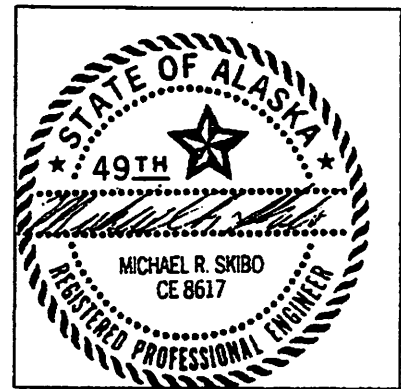
Time (t - 1)	Water Level (d - 1)	Time (t - 2)	Water Level (d - 2)	Net Time ( $\Delta t$ )	Net Drop ( $\Delta d$ )	Perk Rate (min. / inch)
1419	10 1/2	1449	11	30	1/2	60
	refill					
1451	10 1/2	1521	11	30	1/2	60
	refill					
1522	10 1/2	1552	11	30	1/2	60

### ADEC SUGGESTED APPLICATION RATES

Perk Rate	Application Rate	Comments
Faster than 1	Not Suitable	Requires sand liner or additional treatment.
1 - 5	1.2	
6 - 15	0.8	
16 - 30	0.6	
31 - 60	0.45	
61 - 120	Not Suitable	Requires engineering plans and ADEC plan approval.

#### COMMENTS:

The application rate per ADEC 18 AAC 72 regulations Table C, 'WASTEWATER APPLICATION RATES FROM PERCOLATION TEST RESULTS' is 0.45 gal/day/sq. ft.



There are several methods of measuring soil percolation, technically called hydraulic conductivity. The soil percolation test method we performed was conducted in general conformance with the Falling Head Percolation Test Procedure from EPA's Design Manual for Onsite Wastewater Treatment and Disposal Systems dated October 1980. This method is the one most commonly used and can give an approximate measure of the soil's saturated hydraulic conductivity. However, normally the percolation of wastewater through the soil below the leach field occurs through unsaturated soils. The unsaturated hydraulic conductivity can vary greatly from the saturated hydraulic conductivity with changes in soil characteristics and moisture content. The results from this test method can be variable and may not measure the hydraulic conductivity accurately. These test results should only be used together with specific soil characteristic data and other site characteristics to design an appropriate soil absorption system.

**DOCUMENTATION OF AN ON-SITE WASTEWATER DISPOSAL SYSTEM**

**GENERAL INFORMATION**

AK Rim File No. 00-00311

Legal Description of the Location:

**Lot 1, Block 2, Inlet View**

375  
1340

Applicant Name: <b>LN Construction</b>	Applicant is: <input type="checkbox"/> Owner/Builder <input checked="" type="checkbox"/> Excavator <input type="checkbox"/> Engineer <input type="checkbox"/> Bank
Mailing Address: <b>PO Box 951</b>	Type of Residence: <input checked="" type="checkbox"/> Single-Family <input type="checkbox"/> Multi-Family
City, State and Zip Code: <b>Palmer, AK 99645</b>	Total Number of Bedrooms: <b>4</b>
	Telephone: <b>746-6215</b>

**NEW SYSTEM**

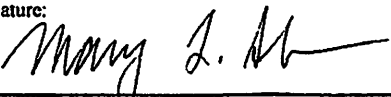
Name of Installer: <b>LN Construction</b>		Date Installed: <b>July 13, 2000</b>	
<input type="checkbox"/> Owner / Builder:	<input type="checkbox"/> Certified Installer No.:	<input checked="" type="checkbox"/> Other: <b>contractor</b>	Septic Tank Type / Manufacturer: <b>steel - Anchorage Tank</b>
Septic Tank Size: (Gallons) <b>1250</b>	Number of Compartments: <b>2</b>	Soil Type and Rating: <b>GM (silty gravel) 335 sf / bdrm</b>	
Type Soil Absorption System: <b>deep trench</b>	Dimensions / Size Soil Absorption System: <b>80' x 9' E.D. / 1440 sq. ft.</b>	Type/Quantity Backfill Material Used for Soil Absorption System: <b>3/4" - 3" sewer rock / 50 cu. yds.</b>	
Percolation Test Results: (Attach Copy of Report) <b>60 minutes per inch (6/21/00)</b>	Percolation Test by: (Name) <b>perked by: Kent Sheets, Alaska Rim Engineering, Inc.</b>		
Minimum Ground Cover over Absorption Area: <b>4 Feet</b>	Minimum Ground Cover over Septic Tank: <b>4 Feet</b>	Cleanout Pipes / Caps Installed on Septic Tank: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cleanout Pipes / Caps Installed on Absorption System: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Separation Distance To: <b>&gt;100 Feet</b>	Water Supply Source on Lot: <b>&gt;100 Feet</b>	Nearest Water Supply Source on Adjacent Lot: <b>&gt;100 Feet</b>	Nearest Body of Water: <b>&gt;4' / &gt;6'</b>
		Water Table/Bedrock: <b>&gt;4' / &gt;6'</b>	Lot Line: <b>unknown</b>
Comments / Recommendations: A cleanout is located <input type="checkbox"/> inside <input checked="" type="checkbox"/> outside of the foundation. This data represents the as-constructed condition of the improvements documented above. Based on periodic visual observations and information obtained from the installer, this data appears reasonable and represents that the project was constructed in general conformance with current 18 AAC 72 regulations and ADEC policies.			

**EXISTING SYSTEM**

Name of Installer:		Date Installed:	
<input type="checkbox"/> Owner / Builder:	<input type="checkbox"/> Certified Installer No.:	<input type="checkbox"/> Other:	Septic Tank Type / Manufacturer:
Septic Tank Size: (Gallons)	Number of Compartments:	Soil Type and Rating:	
Type Soil Absorption System:	Dimensions / Size Soil Absorption System: / <b>sq. ft.</b>	Type/Quantity Backfill Material Used for Soil Absorption System: / <b>cu. yds.</b>	
Adequacy Test Results: (Attach copy of Report) <input type="checkbox"/> Pass <input type="checkbox"/> Fail ( )	Adequacy Test Performed By: (Name)	Date Septic Tank Pumped: (Attach Copy of Receipt) ( )	
Minimum Ground Cover over Absorption Area:	Minimum Ground Cover over Septic Tank:	Cleanout Pipes / Caps Installed on Septic Tank: <input type="checkbox"/> Yes <input type="checkbox"/> No	Cleanout Pipes / Caps Installed on Absorption System: <input type="checkbox"/> Yes <input type="checkbox"/> No
Separation Distance to:	Water Supply Source on Lot:	Nearest Water Supply Source on Adjacent Lot:	Nearest Body of Water:
		Water Table/Bedrock:	Lot Line:
Comments / Recommendations: A cleanout is located <input type="checkbox"/> inside <input type="checkbox"/> outside of the foundation.			
Data Legend (1) From site visit on (2) ADEC records (3) (4) (5)			

*This documentation does not constitute a guarantee of any kind, explicit or implied, as to future performance of this wastewater disposal system. It does accurately portray the conditions found on the date it was tested and/or documented.*

This information is correct to the best of my knowledge.

Signature: 	Typed / Printed Name: <b>Mary L. Shreve</b>
Reg. No.: <b>CE 9351</b>	Date: <b>2/8/02</b>