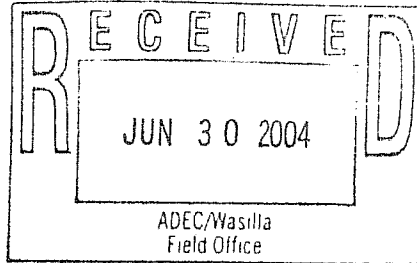


ERDMAN & ASSOCIATES
Consulting Engineers / Water Testing Laboratory

5200 Dunbar Drive
Wasilla, AK 99654

Phone 907-376-6989
Fax 907-373-2157



April 21, 2004

Mr. Ronald Schrank
c/o John Paoletti - Alaska Realty & Investments
PO Box 4356
Palmer, AK 99645

Re: L4/B3 Devon Wood Div. #1; Documentation of New Septic Tank;
E&A Project #04035

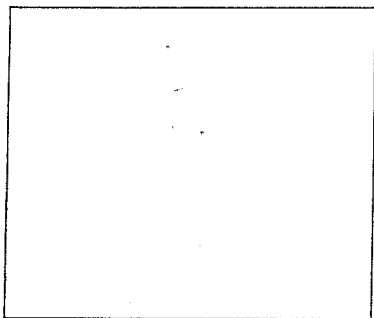
Mr. Schrank,

On April 20, 2004, we verified the installation of a new septic tank at the referenced property, as recommended in our letter of April 19, 2004.

Documentation of the new tank installation is attached. Please call if you have any questions or need additional information.

Sincerely,

Michael R. Erdman, P.E.



ERDMAN & ASSOCIATES
 Consulting Engineers/Water Testing Laboratory
 5200 Dunbar Drive Wasilla, AK 99654
 376-6989

**ON-SITE WATER AND SEWER SYSTEM
 DOCUMENTATION OF CONSTRUCTION**

I. GENERAL INFORMATION	
Legal Description of the Location Lot 4, Block 3 Devon Wood Div. #1	
Installer John Paoletti	Submitted by: <input type="checkbox"/> Certified Installer <input type="checkbox"/> Approved Homeowner <input checked="" type="checkbox"/> Registered Engineer
Mailing Address	Wastewater System Serves: <input checked="" type="checkbox"/> Single Family 4 Bedrooms <input type="checkbox"/> Duplex Bedrooms <input type="checkbox"/> Small Commercial (<500 gpd)
City, State, Zip Code	

II. WATER SUPPLY SYSTEM				
Source of Water and Containment (Check all that Apply)		Type of Water Supply System		
<input type="checkbox"/> Well (Drilled or Driven)	<input type="checkbox"/> Surface (Identify)	<input type="checkbox"/> SF/Duplex		
<input type="checkbox"/> Roof Catchment	<input type="checkbox"/> Other (Identify)	<input type="checkbox"/> Public		
<input type="checkbox"/> Holding Tank				
Well Data				
Is the height of the well casing more than 12" above the ground?		<input type="checkbox"/> Yes <input type="checkbox"/> No		
Is a sanitary seal or well cap installed on the well casing?		<input type="checkbox"/> Yes <input type="checkbox"/> No		
Is drainage directed away from or around the casing within a radius of 10 feet of the well casing?		<input type="checkbox"/> Yes <input type="checkbox"/> No		
Is well wire enclosed in conduit?		<input type="checkbox"/> Yes <input type="checkbox"/> No		
Date Drilled	Depth of Well (Feet)	Static Water Level (Feet)	Yield (If available)	Pump Rate (If available)
Separation Distance from the Well Casing to each of the Following Sources of Contamination:				
Septic/Holding Tank on Lot		Sewer Lines on Lot		Absorption Area on Lot
Closest Septic/Holding Tank on Adjacent Lot		Closest Sewer Lines on Adjacent Lot		Closest Edge of an Absorption Area on Adjacent Lot
If toxic materials are stored on the property, including fuel tanks, paints, lubricants and other petroleum based materials, pesticides, fungicides or herbicides, indicate distance from contaminants to well casing:			On Lot	On Adjacent Lot
Water Sample Taken by: (Name)			Sampler is: <input type="checkbox"/> Buyer <input type="checkbox"/> Engineer <input type="checkbox"/> Banker <input type="checkbox"/> Government Official	
Address				
Water Sample Results: Attach Copy <input type="checkbox"/> Satisfactory - Date <input type="checkbox"/> Unsatisfactory - Date				
Comments/Recommendations:				
The above information is correct to the best of my knowledge and belief. This report does not constitute a warranty of any kind.				
Signature 	Typed/Printed Name Michael R. Erdman, P.E.	Title CE 6252	Date 4/21/04	

III. WASTEWATER DISPOSAL	Legal Description: Lot 4, Block 3 Devon Wood Div. #1
<input checked="" type="checkbox"/> Septic Tank w/ Conventional Soil Absorption System	<input type="checkbox"/> Small Commercial System - Estimated Flow 500 gpd Criteria used to estimate wastewater flow: EPA DESIGN MANUAL

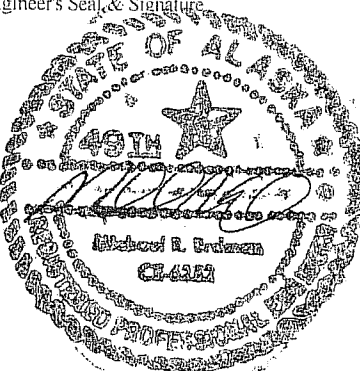
<input type="checkbox"/> NEW SYSTEM		<input checked="" type="checkbox"/> REPAIR TO EXISTING SYSTEM (New Septic Tank Only)	
Name of Installer	John Paoletti	Date	4/20/04
System Installed:	<input checked="" type="checkbox"/> With Inspection by a Registered Engineer		
Septic Tank:	Material: Steel	Manufacturer: Greer	Size (gal): 1,250
			Number of Compartments: 2
Type Soil Absorption System	Dimensions/Size Soil Absorption System		Grading/Size/Thickness of Distribution Material:
Soil Classification:	Soil Rating:		
Percolation Test Results (Attach Copy of Report)	Percolation Test Performed By:		
Minimum Ground Cover over Septic Tank: > 4 Feet	Minimum Ground Cover over Absorption Area: > 4 Feet	Minimum Ground Cover over Sewer Pipes: > 4 Feet	Cleanout Pipes/Caps Installed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Separation Distances from ST/SAS to: Public Water Source > 200 Feet	Water Bodies > 100 Feet	Separation Distances from Bottom of Distribution Rock to: Groundwater Table > 4 Feet	
Private Water Source > 100 Feet	Lot Line See As-Built Survey	Bedrock/Impermeable Layer > 6 Feet	
Separation Distance from Absorption Area to Slope Exceeding 25%			> 50 Feet

Comments/Recommendations

Adequacy test had shown previously existing septic tank was leaking. Old tank was excavated and removed. New tank was installed in same location. No other changes were made.

This report is based upon limited inspections during construction, and upon information and/or photographs provided by installer. System appears to meet applicable ADEC regulations and requirements.

The above information is correct to the best of my knowledge and belief. This report does not constitute a warranty of any kind.

	Typed/Printed Name	Title, Reg./Cert No.	Date
	Michael R. Erdman, P.E.	CE6252	4/21/04

DEC

James W. Rowland, P.E.
Palmer, AK 99645

September 28, 1999

Loren Dodds
600 Golden Hills Drive
Wasilla, AK 99654

LETTER OF VERIFICATION

Re: Lot 4, Block 3, Devon Wood, Division #1
Single Family On-Site Water & Wastewater Disposal System Documentation

You have requested verification that the wastewater disposal system for the four (4) bedroom, single-family, dwelling on this property was designed and installed in conformance with the current ADEC regulations and policies.

An appropriately sized soil absorption system was designed for this dwelling based upon the in situ soil conditions. This system was installed in compliance with all current ADEC regulations and specifications. The enclosed record documents were prepared based upon information obtained from field observations. The data is reasonable and represents that the wastewater disposal system was installed in general conformance with current Alaska Administrative Code, Title 18, Chapter 72 Wastewater Disposal.

The location of the wastewater disposal system, relative to property lines or any easements, is shown on the enclosed certified as-built survey.

The water system had an average flow rate of 30 gpm on a test conducted by Pioneer Pacific on April 15, 1998. A water sample tested satisfactory for Coliform bacteria.

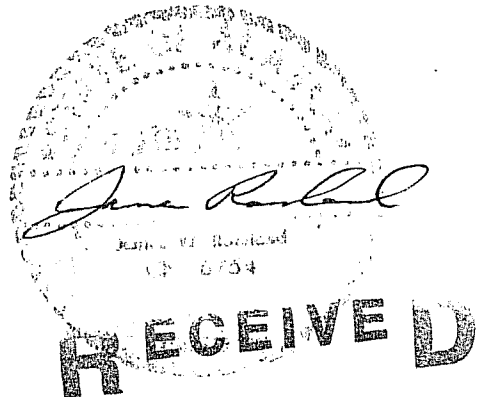
All performance data presented under this letter is based upon the testing performed on the dates shown. I can not warrant or guarantee the future performance or the installation of either the wastewater disposal system or the water system. I can only state that the water system appears to be adequate and that the wastewater absorption system was properly installed.

If you have any questions or desire any further information, please feel free to contact Denali North at any time.

Sincerely,



James W. Rowland, P.E.
CE 6754



OCT - 5 1999

DEPARTMENT OF

STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

APPLICATION FOR ON-SITE WATER AND SEWER
SYSTEM APPROVAL
OR
DOCUMENTATION OF SYSTEM INSTALLATION

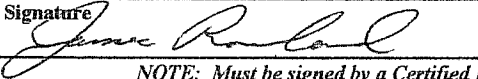
Date Received

WO# 98-256

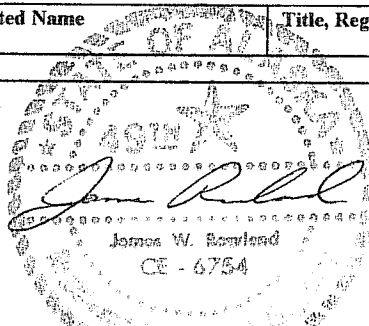
I. GENERAL INFORMATION		
Legal Description of the Location		
DEVON WOOD, DIVISION #1		
Lot 4, Block 3		
Applicant Name: Loren Dodds	Applicant is: (Check one) <input type="checkbox"/> Bank <input type="checkbox"/> Certified Installer, No. _____ <input checked="" type="checkbox"/> Owner/builder <input type="checkbox"/> Engineer	
Mailing Address 600 Golden Hills Drive	Type of Residence: <input checked="" type="checkbox"/> Single Family <input type="checkbox"/> Multi-Family	Total Number Bedrooms <u>4</u>
City, State, Zip Code Wasilla, Alaska 99654	Telephone: 376-1801	
Send Approval to: <input type="checkbox"/> Applicant <input checked="" type="checkbox"/> Other (Give Name & Address)		
Denali North 847 W. Evergreen Ave. Palmer, Alaska 99645		

II. WATER SUPPLY SYSTEM				
Source of Water and Containment (Check all that Apply)		Type of Water Supply System		Treatment of Water (Check all that Apply)
<input checked="" type="checkbox"/> Well (Drilled or Driven) <input type="checkbox"/> Surface (Identify) _____ <input type="checkbox"/> Roof Catchment <input type="checkbox"/> Other (Identify) _____ <input type="checkbox"/> Holding Tank		<input checked="" type="checkbox"/> Private <input type="checkbox"/> Public (Serves more than one family)		<input type="checkbox"/> None <input type="checkbox"/> Chlorination <input type="checkbox"/> Filtration <input type="checkbox"/> Mineral Removal <input checked="" type="checkbox"/> Other: <u>unknown</u>
Well Data				
Is the height of the well casing more than 12" above the ground?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Is a sanitary seal or well cap installed on the well casing?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Is drainage directed away from or around the casing within a radius of 10 feet of the well casing?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Is well wire enclosed in conduit?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Date Drilled * 4/15/98	Depth of Well (Feet) * 100'	Static Water Level (Feet) * 61'	Yield (If available) * 30gpm	Pump Rate (If available) unknown
Separation Distance from the Well Casing to each of the Following Sources of Contamination:				
Septic/Holding Tank on Lot 100+'		Sewer Lines on Lot 25+'		Absorption Area on Lot 100+'
Closest Septic/Holding Tank on Adjacent Lot 100+'		Closest Sewer Lines on Adjacent Lot 25+'		Closest Edge of an Absorption Area on Adjacent Lot 100+'
If toxic materials are stored on the property, including fuel tanks, paints, lubricants and other petroleum based materials, pesticides, fungicides or herbicides, indicate distance from contaminants to well casing:			None Visible 25+'	Within 25+'
Water Sample Taken By: (Name) Denali North			Sampler is: <input type="checkbox"/> Buyer <input checked="" type="checkbox"/> Engineer <input type="checkbox"/> Banker <input type="checkbox"/> Government Official	
Address 847 W. Evergreen Avenue Palmer, AK 99645				
Water Samples Results: Attach Copy <input checked="" type="checkbox"/> Satisfactory 9/23/99 <input type="checkbox"/> Unsatisfactory - Date				
Comments/Recommendations: * Indicates information taken from Well Log.				
I certify that the above information, and that provided in Section IV, is correct:				
Signature 	Typed/Printed Name James W. Rowland	Title CE 6754	Date 9-28-99	

III. WASTEWATER DISPOSAL		Legal Description: Lot 4, Block 3 DEVON WOOD, DIVISION #1	
<input checked="" type="checkbox"/> Septic Tank/Absorption System		<input type="checkbox"/> Package Treatment <i>(Specify Brand Name or Process)</i>	
<input type="checkbox"/> Holding Tank - Specify	<input type="checkbox"/> Capacity of Tank	Where Waste is Disposed	Frequency of Pumping
<input checked="" type="checkbox"/> Septic Tank Outfall Discharged To: subsurface		<input type="checkbox"/> Other <i>(Specify):</i> <i>(Outhouse Incinerator, etc.)</i>	

<input checked="" type="checkbox"/> NEW SYSTEM		
Name of Installer John Henry		Date Installed 9/7/98
<input checked="" type="checkbox"/> Owner/Builder	<input type="checkbox"/> Certified Installer No. _____	<input type="checkbox"/> Other: _____
Septic Tank Type/Manufacturer Steel/Anch. Tank		
Septic Tank Size (Gallons) 1,250	Number of Compartments 2	Soil Type and Rating 335 S.f./bdrm
Type Soil Absorption System Deep Trench	Dimensions/Size Soil Absorption System 112' x 6'ED	Type/Quantity Backfill Material Used for Soil Absorption System 3/4-1 1/2" septic rock/95cy
Percolation Test Results <i>(Attach Copy of Report)</i> 40 mpi		Percolation Test by: <i>(Name)</i> Denali North
Minimum Ground Cover over Absorption Area 4+ Feet	Minimum Ground Cover over Septic Tank 4+ Feet	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: 100+ Feet	Water Supply Source on Lot 100+ Feet	Nearest Water Supply Source on Adjacent Lot 100+ Feet
		Nearest Body of Water 100+ Feet
		Water Table/Bedrock 4/6+ Feet
		Lot Line 10+ Feet
Comments/Recommendations Denali North inspected the installation of the new soil absorption system to verify that it complies with ADEC regulations and specifications. Denali North does not warrant or guarantee the future performance or the installation of the components. On 9/22/99 Denali North verified system has not been used. Cleanout is located outside of the foundation.		
I certify that the above information, and that provided in Section IV, is correct:		
Signature 	Typed/Printed Name James W. Rowland	Title, Reg./Cert No., Inst. No. CE 6754
		Date 9-28-99
<i>NOTE: Must be signed by a Certified Installer, Professional Engineer, DEC staff, or approved Owner/Builder</i>		

<input type="checkbox"/> 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	Type/Quantity Backfill Material Used for Soil Absorption System
Adequacy Test results <i>(Attach Copy of Report)</i> <input type="checkbox"/> Pass <input type="checkbox"/> Fail		Adequacy Test Performed by: <i>(Name)</i>
		Date Septic Tank Pumped <i>(Attach Copy of Receipt)</i>
Minimum Ground Cover over Absorption Area Feet	Minimum Ground Cover over Septic Tank Feet	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: 1 Feet	Water Supply Source on Lot 1 Feet	Nearest Water Supply Source on Adjacent Lot Feet
		Nearest Body of Water Feet
		Water Table/Bedrock Feet
		Lot Line Feet
Comments/Recommendations Cleanout is located _____ of the foundation.		
I certify that the above information, and that provided in Section IV, is correct:		
Signature	Typed/Printed Name	Title, Reg./Cert No.
		Date
<i>NOTE: Must be signed by a Professional Engineer.</i>		



SEAL
Registered Professional
Engineer

(1.) OWNER:

Name LAUREN DODDS
Address _____

(2.) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon
If abandonment describe procedure in Item 12.

(3.) TYPE OF WELL:

Rotary Air Driven
Rotary Mud Dug
Cable Board

(4.) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other
Withdrawal Reinjection
Thermal: _____

(5.) CASING INSTALLED: Steel Plastic Threaded Welded

6" Diam. from 2 ft. to 100 ft. Gauge 250
_____" Diam. from _____ ft. to _____ ft. Gauge _____

LINER INSTALLED:

_____" Diam. from _____ ft. to _____ ft. Gauge _____

(6.) PERFORATIONS:

Perforated? Yes No
Type of perforator used _____
Size of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

(7.) SCREENS:

Well Screen Installed? Yes No
Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot Size _____ Set From _____ ft. to _____ ft.
Diam. _____ Slot Size _____ Set From _____ ft. to _____ ft.

(8.) WELL TESTS:

Breakdown is amount water level is lowered below static level
Yield _____ gal./min. with _____ ft. drawdown after _____ hrs.
Yield _____ gal./min. with _____ ft. drawdown after _____ hrs.
30 gal./min. with drill stem at _____ ft. _____ hrs.

(10.) LOCATION OF WELL:

Borough Mat-Su Driller's well number _____
_____/4 _____/4 Section _____ T _____ R _____ W.M.
Tax Lot # LT4 BIK3 Division 1
Address at well location: Devonwood Lucille

(11.) WATER LEVEL: Completed Well

Static Level 61 ft. Below land surface. Date 4-15
Artesian pressure _____ lbs. per square inch. Date _____

(12.) WELL LOG:

Depth drilled 100 ft. Depth of completed well 100 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	FROM	TO	SWL
<u>Haveipan</u>	<u>0</u>	<u>68</u>	
<u>Gravel</u>	<u>68</u>	<u>100</u>	
<u>30 Gal/min</u>			

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name: **PIONEER PACIFIC**
Address: PO Box 872174 Wash DC 20014
Signed) [Signature]

Completed date: April 15, 19 98

DENALI NORTH

P.O. Box 870086
Wasilla, Alaska 99687

SOIL LOG

PERCOLATION TEST

SOIL LOG

PERCOLATION TEST

4 BEDROOMS

JOB NUMBER: 98-256

PERFORMED FOR: _____ DATE PERFORMED: 9-5-98

LEGAL DESCRIPTION: DEVONWOOD D#1 L-4 B-3

1	0-0.5' OL-MC	SLOPE	SITE PLAN
2	0.5'-2' silty sandy soil REDISH BROWN		
3	BROWNISH RED SAND w/ slight TRACE of SILT		
4			
5			
6			
7			
8			
9			
10			
11		SLOPE	SITE PLAN
12			
13			
14			
15			
16			
17			
18			
19			
20			

DEPTH (FEET)

WAS GROUND WATER ENCOUNTERED? YES

IF YES, AT WHAT DEPTH? 16'

Reading	Date	Gross Time	Net Time	Depth to Water	Net Drop
1	9-5-98	7:58	START	6'	START
2	/	8:28	30min	5 1/2"	1/2"
3		8:58	"	5 1/4"	3/4"
4		9:28	"	5 1/4"	3/4"
5		9:58	"	5 1/4"	3/4"

PERCOLATION RATE 40 (minutes/inch)

TEST RUN BETWEEN 5 FT AND 6 FT

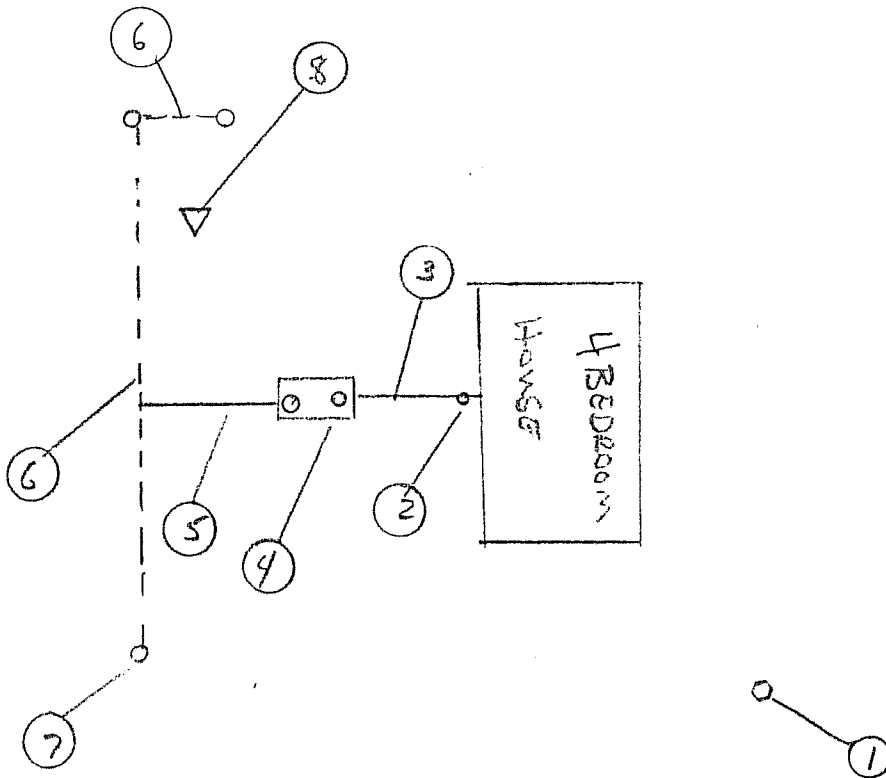
COMMENTS Soil Rating 335 SPT / BDRM

PERFORMED BY: Wayne Whaley CERTIFIED BY: JWR DATE: 9/28/99

NOTE: NOT TO SCALE

LEGEND

- 1) WELL
- 2) FOUNDATION CLEAN OUT
- 3) 4" DIA. SCH. 40 ABS SEWER LINE AT 2% GRADE
- 4) 1250 GAL. STEEL 2 COMP ANCHORAGE SEPTIC TANK
- 5) 4" DIA SCH 40 ABS DISCHARGE LINE AT 1% GRADE
- 6) 4" PVC PERF PIPE LAID LEVEL
- 7) MONITOR TUBE TYP.
- 8) TEST HOLE



— — — LUCILLE ST — — —

DENALI NORTH
 P.O. BOX 870086
 Wasilla, AK 99687
 373-1110

SOIL ABSORPTION SYSTEM

DEEPTRENCH

DATE WO# DRAWN BY:

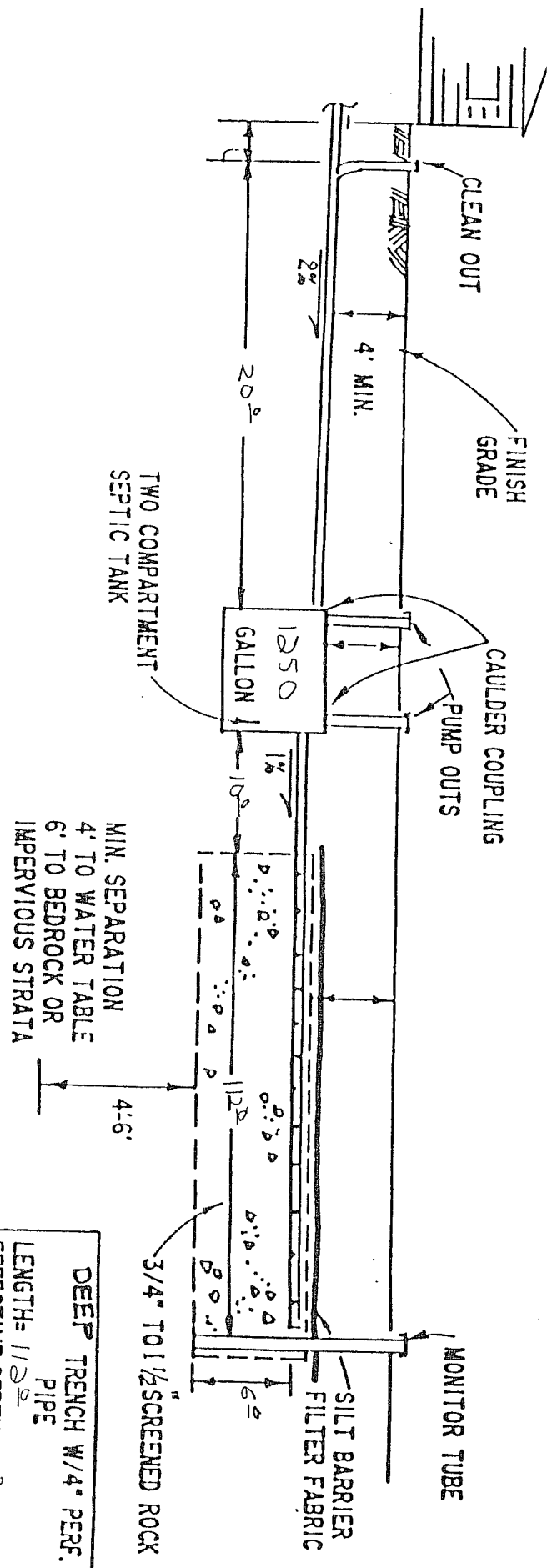
9-7-98

98-256

S.W

LEGAL DESCRIPTION

DEVON WOOD DIV # L-4 B-3



WASTEWATER SYSTEM PROFILE

N.T.S.

1. ALL STAND PIPES AND LEACH LINE ENDS ARE TO BE CAPPED.
2. DISTRIBUTION PIPES, SEPTIC TANK AND TRENCH BOTTOMS TO BE INSTALLED LEVEL.
3. AVOID SMEARING OF TRENCH SIDE WALLS IN FINER SOILS.

DEEP TRENCH SOIL ABSORPTION SYSTEM

Denali North 847 W. EVERGREEN PALMER, AK. 99645

Y3 Downdwood #1 98-256

