



250520000

TION
SYSTEMCERTIFICATE OF COMPLIANCE
With The Becker County Zoning Ordinance

Application Number

4747

Tax Parcel Number

25.0519.000

A. GENERAL INFORMATION

1. Applicant's Name (Last, First, M.I.) <i>Diercks, Arthur</i>		2. Authorized Agent (If applicable)	
3. Mailing Address (Street, RFD, Box Number, City, State, Zip Code) <i>2108 6th St S Moorhead, MN 56560-4152</i>			
4. Day Phone	5. Evening Phone	6. Fire Number of Project Location	

B. PROPERTY DESCRIPTION

1. Lot(s), Block, Subdivision Name <i>Edgewood Beach Lot 18</i>	2. Section <i>141</i>	3. Township <i>38</i>	4. Range	5. Qtr./Qtr.	6. Gov. Lot No.
7. Note: If the property is a metes and bounds description, check here [] and attach a copy of the exact legal description.					

SEWAGE SYSTEM DATA

Anticipated Use

- a. ☒ Single Family
b. ☐ Multiple Family
c. ☐ Commercial
d. ☐ Agricultural
e. ☐ Other (specify)

Type of System

- a. ☐ Septic Tank Only
b. ☐ Drainfield Only
c. ☒ Septic Tank & Drainfield
d. ☐ Holding Tank
e. ☐ Alternative System (specify)

Type of Drainfield

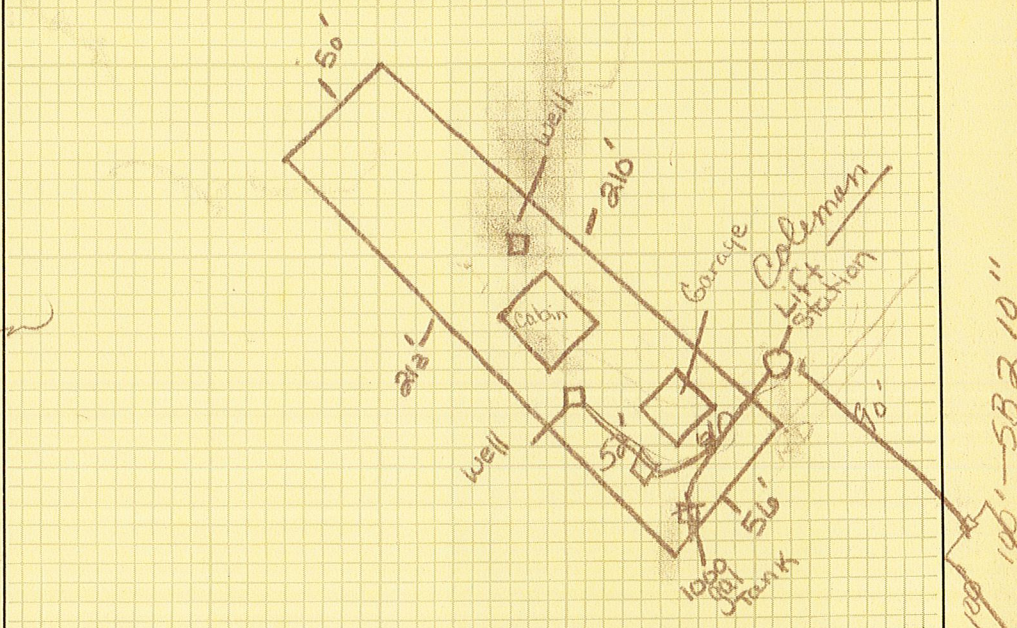
- a. ☒ Standard System
b. ☐ Mound (pressure distribution)
c. ☐ Mound (gravity distribution)

Well Data

- a. Depth: *-50' casing*
b. Diameter: *1 1/4"*

Type of Well

- a. ☐ Drilled
b. ☒ Sand Point

1 Inch Equals
DESIGNShow Distance Between Sewage System And Buildings,
Property Lines, Lake, Roads And All Wells Within 125 Feet.

I hereby certify with my signature that all data on my application forms,
plans and specifications are true and correct to the best of my knowledge:

Installed in 1991 by Larry Muff
Signature of Applicant Date

TO BE COMPLETED BY ZONING OFFICE

SEWAGE SYSTEM DATA	Tank	Drainfield	[] CERTIFICATE IS HEREBY DENIED [X] CERTIFICATE IS HEREBY GRANTED Based upon the application, addendum form, plans, specifications and all other supporting data. With proper maintenance this system can be expected to function satisfactorily, however this is not a guarantee.
Distances to Well:	<i>52'</i>	<i>182'</i>	
Distance to Building:	<i>72'</i>	<i>202'</i>	
Distance to Property Line:	<i>10'</i>	<i>10'</i>	
Distance to Suction Line:	<i>+</i>	<i>+</i>	
Distance to Pressure Line:	<i>+50'</i>	<i>+50'</i>	
Tank Capacity (gal.) and Area of Drainfield (ft. 2):	<i>1000</i>	<i>3005F</i>	
Distance to Lake or Stream (from Ordinary High Water Level):	<i>+100'</i>	<i>+100'</i>	
Drainfield Separation from Highest Known Ground Water Level, Impervious Lens or Soil Mottling:	<i>+</i>	<i>+3'</i>	

100LF 50' 10"

BECKER COUNTY ZONING OFFICE

Margaret M. Testin
Signature

Inspector *8/18/92*
Title Date

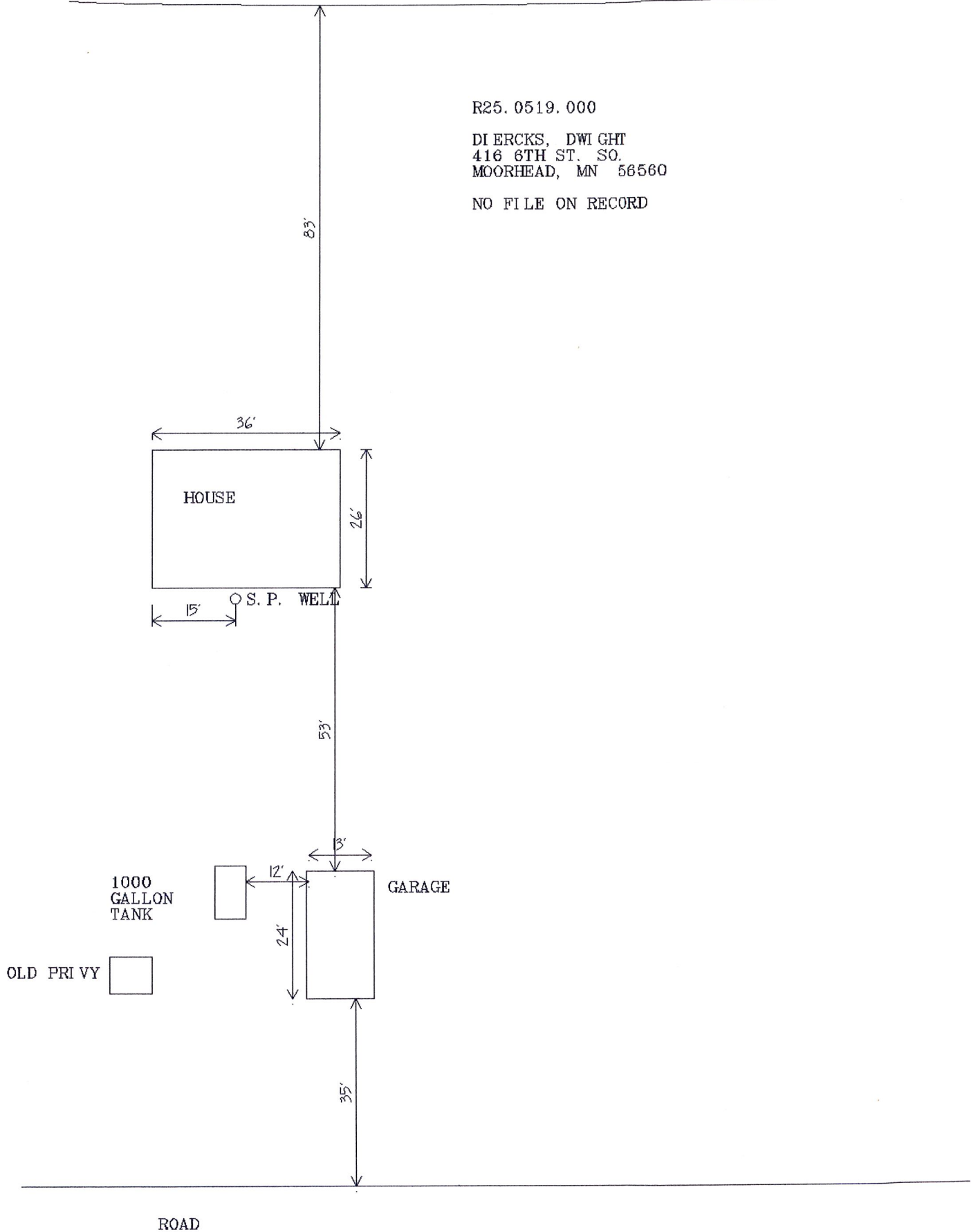
otherside of road.

ROUND LAKE

R25.0519.000

DI ERCKS, DWIGHT
416 6TH ST. SO.
MOORHEAD, MN 56560

NO FILE ON RECORD





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FOR SEWAGE SYSTEM

CERTIFICATE OF COMPLIANCE
With The Becker County Zoning Ordinance

Application Number	10512
Tax Parcel Number	25.0520000
Fire Number of Project Location	C5414

A. GENERAL INFORMATION

1. Applicant's Name (Last, First, M.I.) Hoghaug, Randah I		2. Authorized Agent (if applicable) Larry Huff 576	
3. Mailing Address (Street, RFD, Box Number, City, State, Zip Code) Route 1 Box 324 P. 11ager, MN 56473			
4. Day Phone 828-8055	5. Evening Phone	6. Section 18	7. Township Round Lake

B. PROPERTY DESCRIPTION

1. Lot(s), Block, Subdivision Name Idlewood Beach Lot 19 + E 1/2 of Lot 20

SEWAGE SYSTEM DATA Anticipated Use a. ☒ Single Family b. ☐ Multiple Family c. ☐ Commercial d. ☐ Other (specify) Type of Installation a. ☐ Septic Tank Only b. ☐ Drainfield Only c. ☐ Septic Tank & Drainfield d. ☒ Holding Tank (2) e. ☐ Septic Tank/Drainfield Lift Station Type of Drainfield a. ☐ Standard System b. ☐ Mound (pressure distribution) Well Data a. Depth 28' b. Diameter Type of Well a. ☐ Drilled b. ☒ Sand Point	1 Inch Equals _____ DESIGN See Attached Site Plan Show Distance Between Sewage System And Buildings, Property Lines, Lake, Road And All Wells Within 125 Feet. <table><tr><td>Distances to Well:</td><td>Tank = 50'</td><td>Drainfield =</td><td>Distance to Pressure Line:</td><td>Tank = 20'</td><td>Drainfield =</td></tr><tr><td>Distance to Building:</td><td>Tank = 40'</td><td>Drainfield =</td><td>Tank Capacity (gal. & Area of Drainfield (ft 2) =</td><td>1500</td><td></td></tr><tr><td>Distance to Property Line:</td><td>Tank = 10'</td><td>Drainfield =</td><td>Distance to Ordinary High Water Level:</td><td>158</td><td></td></tr><tr><td colspan="3">Drainfield separation from Highest Known Ground Water Level, Impervious Lens or Soil Mottling:</td><td colspan="3"></td></tr></table>	Distances to Well:	Tank = 50'	Drainfield =	Distance to Pressure Line:	Tank = 20'	Drainfield =	Distance to Building:	Tank = 40'	Drainfield =	Tank Capacity (gal. & Area of Drainfield (ft 2) =	1500		Distance to Property Line:	Tank = 10'	Drainfield =	Distance to Ordinary High Water Level:	158		Drainfield separation from Highest Known Ground Water Level, Impervious Lens or Soil Mottling:					
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I hereby certify with my signature that all data on my application forms, plans and specifications are true and correct:

Signature of Applicant

Date

TO BE COMPLETED BY PLANNING AND ZONING

() CERTIFICATE IS HEREBY DENIED: (See back For Reasons)

(X) CERTIFICATE IS HEREBY GRANTED: Based upon the application, addendum from, plans, specifications and all other supporting data. With proper maintenance this system can be expected to function satisfactory, however this is not a guarantee.

BECKER COUNTY PLANNING AND ZONING

Signature: *J. J. J.*

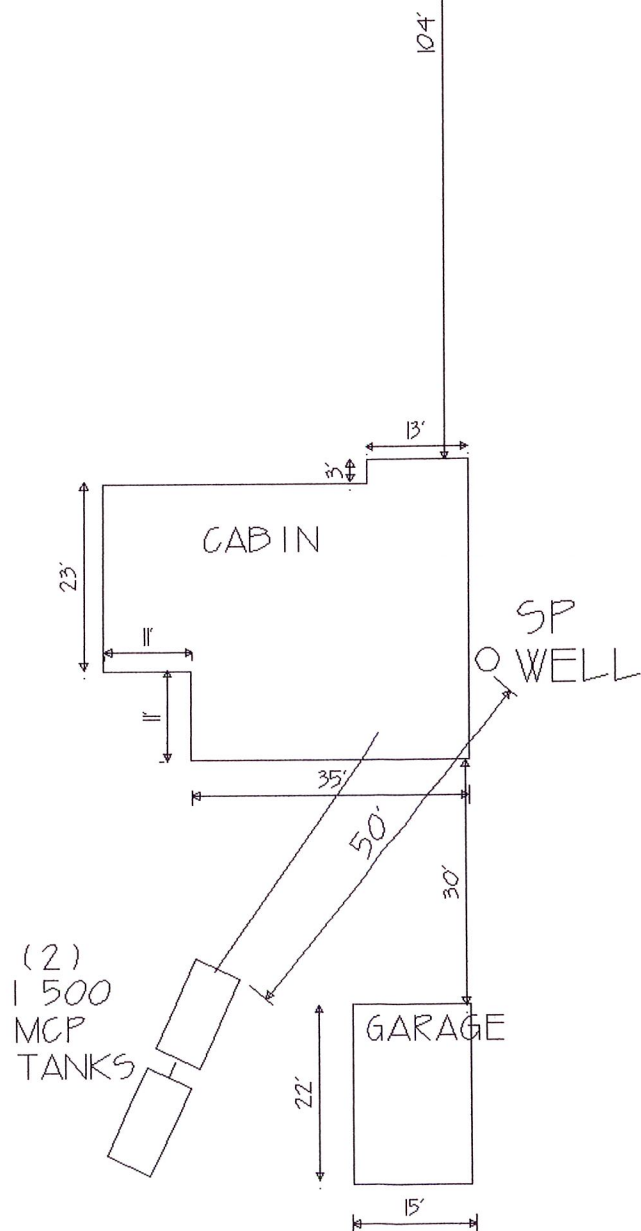
Title: Chief Inspector

Date: 1-6-97

ROUND LAKE

R25.0520.000

DALE GIESE
1908 5TH AVE. NE
EAST GRAND FORKS, MN. 56721



BECKER COUNTY PLANNING & ZONING

829 Lake Avenue, P O Box 787
 Detroit Lakes, MN 56502-0787
 Phone (218) 846-7314, Fax (218) 846-7266

Onsite Septic System Site Evaluation/Design

Fire Number 5414
 Tax Parcel Number 25.0320.000

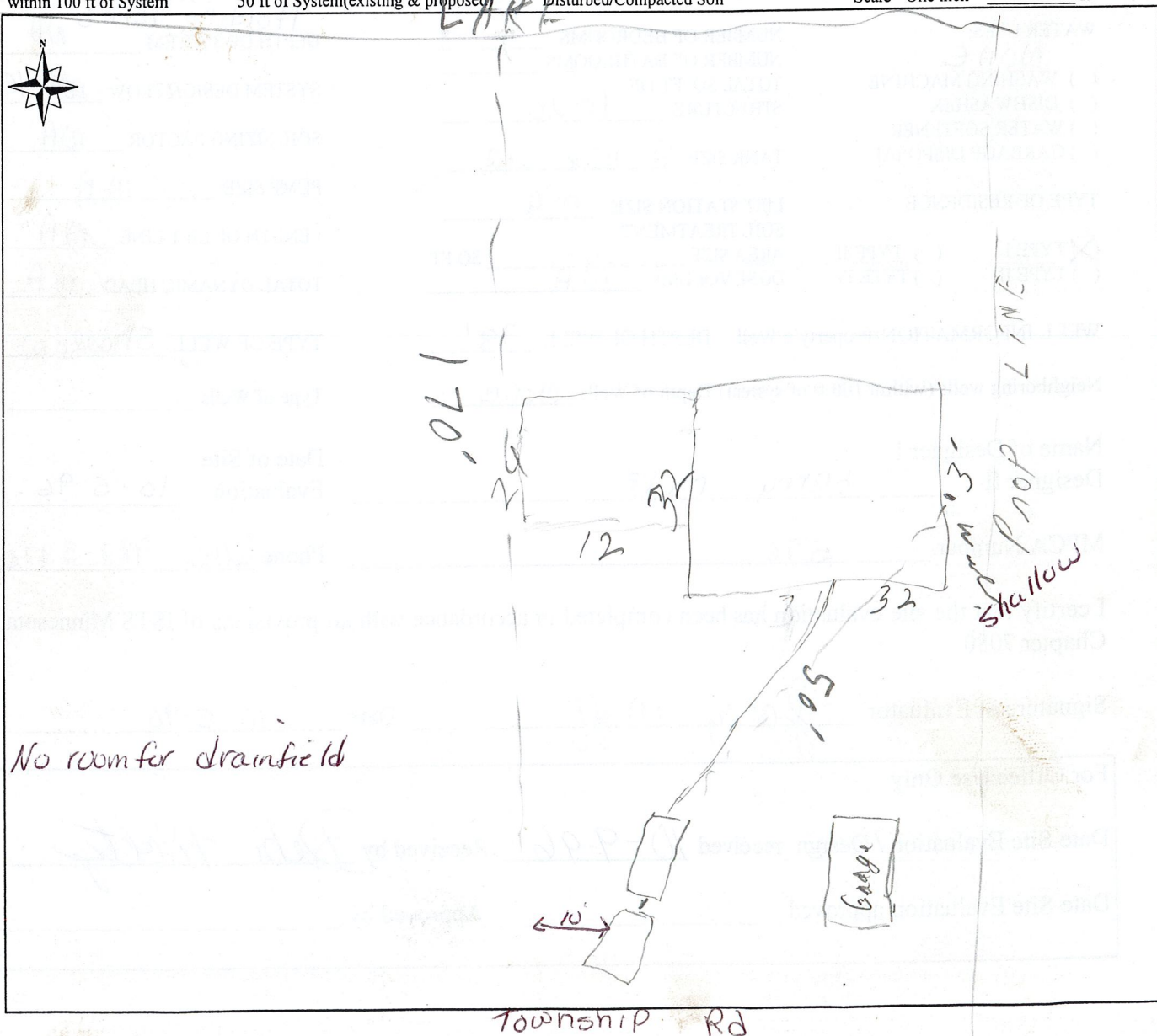
Legal Description: <u>Lot A & 1/2 of Lot 20 Idewood Beach 18 141N Round Lake</u>			
Lake/Stream Name	Lake/Stream Class	Section	TWP Range Township Name
<u>RANDALL</u>	<u>Hog Harbor</u>		
Property Owner	Address	City, State, Zip Code	Phone Number
<u>R.R. #1, Box 324</u>	<u>Pillager MN</u>	<u>56473</u>	<u>218-828-8055</u>
ISTS Designer I / Designer II	License Number	Address	Phone Number
<u>Larry Muff</u>	<u>576</u>	<u>R.R. #1, Box 87 Ogema, MN 56569</u>	<u>218-829-4207</u>

(218) 983-3376

Site Plan

The site plan must be drawn to dimension or to scale:

- | | | | |
|--|---|--|------------------------------------|
| *All Wells within 100 feet of the System | *Existing & Proposed Buildings | *Distance from OHW | *Soil Boring & Perc Test Locations |
| *Distance from all Wells within 100 ft of System | *Easements | *Distance from Property Lines | *Dimensions of Lot |
| | *Distance from Water Lines within 50 ft of System (existing & proposed) | *Location of any Unsuitable Disturbed/Compacted Soil | *Tank Access Route |
| | | | *Scale - One inch = _____ ft |



TEST HOLE #1

TEST HOLE #2

DEPTH IN INCHES	SOIL TEXTURE	MUNSELL COLOR	STRUCTURE	DEPTH IN INCHES	SOIL TEXTURE	MUNSELL COLOR	STRUCTURE
			BLOCKY PLATY PRISMATIC NONE				BLOCKY PLATY PRISMATIC NONE
			BLOCKY PLATY PRISMATIC NONE				BLOCKY PLATY PRISMATIC NONE
			BLOCKY PLATY PRISMATIC NONE				BLOCKY PLATY PRISMATIC NONE
			BLOCKY PLATY PRISMATIC NONE				BLOCKY PLATY PRISMATIC NONE
Depth to standing water				Depth to standing water			
Depth to mottling				Depth to mottling			

Describe the surface features (slope, runoff, weather conditions, vegetation type, evidence of compaction, etc.)

SYSTEM IS () NEW (X) REPAIR

SYSTEM DESIGN

() GRAVITY FLOW () PRESSURE DISTRIBUTION

WATER USES:

- None
 () WASHING MACHINE
 () DISHWASHER
 () WATER SOFTENER
 () GARBAGE DISPOSAL

NUMBER OF BEDROOMS 2
 NUMBER OF BATHROOMS 1
 TOTAL SQ. FT OF STRUCTURE 1020

TANK SIZE 2-1500 gal

TYPE OF RESIDENCE

- (X) TYPE I () TYPE II
 () TYPE III () TYPE IV

LIFT STATION SIZE NA
 SOIL TREATMENT
 AREA SIZE NA SQ FT
 DOSE VOLUME NA

WELL INFORMATION-Property's Well DEPTH OF WELL 28'

Neighboring wells (within 100 ft of system) Depth of Wells None

Name of Designer I

Designer II Larry Muff

Holding Tanks NA
 DEPTH OF SYSTEM NA

SYSTEM DESIGN FLOW 450 GPD

SOIL SIZING FACTOR NA

PUMP SIZE NA

LENGTH OF LIFT LINE NA

TOTAL DYNAMIC HEAD NA

TYPE OF WELL Shallow

Type of Wells _____

Date of Site

Evaluation 10-5-96

MPCA Number 576

Phone (218) 983-3376

I certify that the site evaluation has been completed in accordance with all provisions of ISTS Minnesota Rules Chapter 7080.

Signature of Evaluator Larry Muff Date 10-5-96

For Office Use Only

Date Site Evaluation / Design received 10-9-96 Received by Debi Moltz

Date Site Evaluation approved _____ Approved by _____

INDIVIDUAL SEWAGE TREATMENT SYSTEM WORKSHEET 1

- FLOW**
- A. Estimated 300 gpd
measured 300 x 1.5 = 450 gpd
- SEPTIC TANK VOLUME**
- B. 1000 gallons
Putting in 2 1500 gal. Tanks
- SOILS (Site evaluation data)**
- C. Depth to restricting layer = _____ feet
- D. Maximum depth of system C - 3 ft = _____ feet
- E. Texture _____ Percolation rate _____ MPI
- F. SSF _____ sq ft/gpd
- G. Slope _____%

Estimated Sewage Flows in Gallons per day (gpd)				
Number of Bedrooms	Type I	Type II	Type III	Type IV
2	300	225	180	60% of the values in Type I, II or III columns
3	450	300	218	
4	600	375	256	
5	750	450	294	
6	900	525	332	
7	1050	600	370	
8	1200	675	408	

Septic Tank Capacities (in gallons)		
Number of Bedrooms	Minimum Liquid Capacity	Liquid capacity with garbage disposal
2 or less	750	1125
3 or 4	1000	1500
5 or 6	1500	2250
7, 8 or 9	2000	3000

Soil Characteristics and Required Areas for Sewage Treatment		
Percolation Rate in Minutes per Inch (MPI)	Soil Texture	Square feet per gallon per day
Faster than 0.1 *	Coarse Sand	-----
0.1 to 5	Sand	0.83
0.1 to 5	Fine Sand **	1.67
6 to 15	Sandy Loam	1.27
16 to 30	Loam	1.67
31 to 45	Silt Loam	2.00
46 to 60	Clay Loam	2.20
Slower than 60***	Clay	-----

* Soil too coarse for sewage treatment.
Use systems for rapidly permeable soils.

** Soil having 50% or more of fine sand plus very fine sand.

*** Soil with too high a percentage of clay for installation of an inground standard system.

- TRENCH BOTTOM AREA**
- H. For trenches with 6 inches of rock below the pipe:
 $A \times F = ___ \times ___ = ___ \text{ sq ft of bottom area}$
- I. For trenches with 12 inches of rock below the pipe:
 $A \times F \times 0.8 = ___ \times ___ \times 0.8 = ___ \text{ sq ft of bottom area}$
- J. For trenches with 18 inches of rock below the pipe:
 $A \times F \times 0.66 = ___ \times ___ \times 0.66 = ___ \text{ sq ft of bottom area}$
- K. For trenches with 24 inches of rock below the pipe:
 $A \times F \times 0.6 = ___ \times ___ \times 0.6 = ___ \text{ sq ft of bottom area}$
- BED BOTTOM AREA**
- L. For seepage beds with 6 or 12 inches of rock below the pipe:
 $1.5 \times A \times F = 1.5 \times ___ \times ___ = ___ \text{ sq ft of bottom area}$

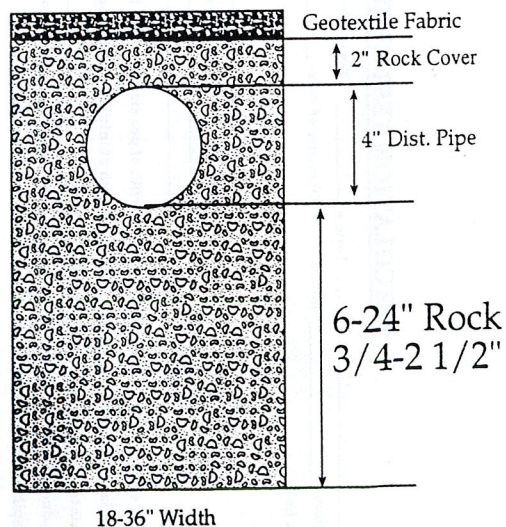
- ROCK VOLUME IN CU FT**
- M. Rock depth below distribution pipe plus 0.5 foot times bottom area:
 $M = \text{Rock depth} + 6 \text{ inches} \times \text{Area (H,I,J,L,K)}$
 $(___ + 0.5 \text{ ft}) \times ___ = ___ \text{ cu ft}$
- ROCK VOLUME IN CU YDS**
- N. Volume in cu ft divided by 27
 $M \div 27 = \text{cu yds } ___ \div 27 = ___ \text{ cu yds}$
- ROCK WEIGHT**
- O. Cubic yards times 1.4 = tons
 $N \times 1.4 = \text{tons } ___ \times 1.4 = ___ \text{ tons}$

6 inches= 0% Reduction*
12 inches= 20% Reduction
18 inches= 34% Reduction
24 inches= 40% Reduction
 * sizing for gravelless trench

- SYSTEM LENGTH**
- P. Select trench width = _____ ft
- Q. Divide bottom area by trench width: (H, I, J, or K) + P = lineal feet
 $___ \div ___ = ___ \text{ lineal feet}$
- Q1. Gravelless Design
 $A \times F \div (3 \text{ for } 10" \text{ pipe, } 2 \text{ for } 8" \text{ pipe, width of the Chamber})$
 $___ \times ___ \div ___ = ___ \text{ feet}$

- LAWN AREA**
- R. Select trench spacing, center to center = _____ feet
- S. Multiply trench spacing by lineal feet R x Q = sq ft of lawn area
 $___ \times ___ = ___ \text{ sq ft}$

If the site evaluation determines a mound system, please attach the mound design worksheets.



- PERCOLATION TEST SHEET -

Test hole location _____ Hole # _____ Date test hole was prepared: _____

Depth of hole bottom: _____ inches Diameter of hole: _____ inches

Soil Data from test hole:

depth, inches	soil texture:	soil color
---------------	---------------	------------

Method of scratching sidewall: _____ Depth of pea size gravel in bottom of hole: _____ inches
 Date and hour of initial water filling: _____ Depth of initial water filling: _____ above hole bottom
 Method used to maintain 12" of water depth in hole for 4 hours: _____
 Percolation test conducted by: _____ Percolation test started at _____ (am / pm).
 Maximum water depth above hole bottom during test: _____ inches

TIME	INTERVAL (MINUTES)	WATER DEPTH	WATER DROP (fraction)	WATER DROP (decimal)	PERC RATE CALCULATION	CONVERSIONS
—	START	—	—	—	$\frac{\text{TIME}}{\text{TIME}} \div \frac{\text{DROP}}{\text{DROP}} = \frac{\text{PERC}}{\text{PERC}}$ A	1 1/8 = .06
—	REFILL	—	—	—		1 3/8 = .13
—	—	—	—	—		3 1/8 = .19
—	REFILL	—	—	—	$\frac{\text{TIME}}{\text{TIME}} \div \frac{\text{DROP}}{\text{DROP}} = \frac{\text{PERC}}{\text{PERC}}$ B	1 1/4 = .25
—	REFILL	—	—	—		5 1/8 = .31
—	REFILL	—	—	—	$\frac{\text{TIME}}{\text{TIME}} \div \frac{\text{DROP}}{\text{DROP}} = \frac{\text{PERC}}{\text{PERC}}$ C	3 3/8 = .38
—	REFILL	—	—	—		7 1/8 = .44
—	REFILL	—	—	—	$\frac{\text{TIME}}{\text{TIME}} \div \frac{\text{DROP}}{\text{DROP}} = \frac{\text{PERC}}{\text{PERC}}$ D	1 2 = .5
—	REFILL	—	—	—		9 1/8 = .55
—	REFILL	—	—	—	$\frac{\text{TIME}}{\text{TIME}} \div \frac{\text{DROP}}{\text{DROP}} = \frac{\text{PERC}}{\text{PERC}}$ E	5 3/8 = .53
—	REFILL	—	—	—		1 1/8 = .59
—	REFILL	—	—	—	$\frac{\text{TIME}}{\text{TIME}} \div \frac{\text{DROP}}{\text{DROP}} = \frac{\text{PERC}}{\text{PERC}}$ F	3 4 = .75
—	REFILL	—	—	—		13 1/8 = .31
—	REFILL	—	—	—	$\frac{\text{TIME}}{\text{TIME}} \div \frac{\text{DROP}}{\text{DROP}} = \frac{\text{PERC}}{\text{PERC}}$ G	7 8 = .88
—	REFILL	—	—	—		15 1/8 = .94

Ten Percent Calculation *

A, B, C	—	Largest # of ABC	Smallest # of ABC	—
			× 0.10 =	
C, D, E	—	Largest # of CDE	Smallest # of CDE	—
			× 0.10 =	
E, F, G	—	Largest # of EFG	Smallest # of EFG	—
			× 0.10 =	
B, C, D	—	Largest # of BCD	Smallest # of BCD	—
			× 0.10 =	
D, E, F	—	Largest # of DEF	Smallest # of DEF	—
			× 0.10 =	
F, G, H	—	Largest # of FGH	Smallest # of FGH	—
			× 0.10 =	

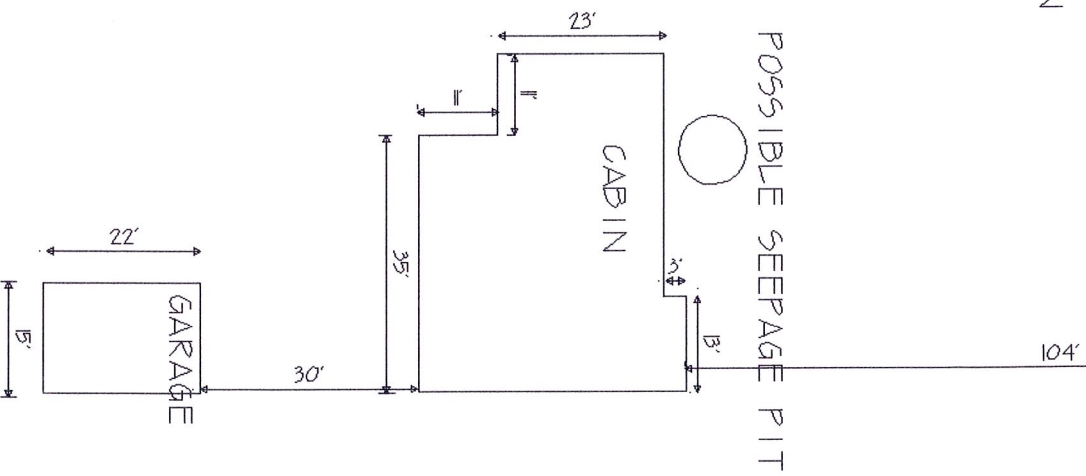
- If the top number in each set of boxes is larger than the bottom number then take another reading. If the top number is equal or smaller than bottom number, average the three numbers for the percent.

WVA putting in Holding Tank

R25.0520.000

DALE GIESE
1908 5TH AVE. NE
EAST GRAND FORKS, MN. 56721

SEPTIC UNKNOWN
WELL UNKNOWN



BECKER COUNTY PLANNING & ZONING

829 LAKE AVENUE, PO BOX 787
DETROIT LAKES, MN 56502-0787
PHONE (218) 846-7314 - FAX (218) 846-7266

INSTALLATION PERMIT FOR
INDIVIDUAL SEWAGE TREATMENT

FIRE NO. C 5414

PERMIT/RECEIPT NO. 10512

TAX PARCEL NUMBER 85-0520.000

LEGAL DESCRIPTION

Lot 19 & E 1/2 of Lot 20 Idewood Beach

LAKE/STREAM NAME	LK/STR CLASS	SECTION	TWP	RANGE	TOWNSHIP NAME
<u>Round</u>		<u>18</u>	<u>141</u>	<u>38</u>	<u>Round</u>

PROPERTY OWNER	ADDRESS/ CITY/ STATE	PHONE NO.
<u>Randall</u>	<u>Hog Haug</u>	<u>Pellagrino Md</u>

INSTALLER	LICENSE NO.	PHONE NO.
<u>Muff</u>		

SEWAGE TREATMENT SYSTEM DATA

WORK CATEGORY	SIZE OF TANK	SIZE OF LIFT STATION
☒ NEW SYSTEM	<u>2-1500</u> GALLONS	<u> </u> GALLONS
☐ REPAIR	SIZE OF DRAINFIELD	SIZE OF PUMP
	<u>NA</u> FT2	
	SYSTEM LENGTH	DEPTH TO RESTRICTING
	<u> </u> FT	LAYER
TYPE OF SYSTEM	NUMBER OF	MAXIMUM DEPTH OF
	TRENCHES	SYSTEM
☐ SEPTIC TANK/DRAINFIELD	ESTIMATED	PERC RATE
☐ DRAINFIELD ONLY	FLOW	<u> </u> GPD
☒ HOLDING TANK	TYPE OF DRAINFIELD	SSF
☐ ALTERNATE (specify)	☐ STANDARD (gravelless)	SIZE OF GRAVELLESS
	☐ STANDARD (rock trench)	PIPE
☐ LIFT STATION	☐ STANDARD (bed)	DEPTH OF ROCK
	☐ MOUND (pressure distb)	
<u>No room for drainfield</u>		

I hereby certify with my signature that all the data contained herein as well as all supporting data are true and correct to the best of my knowledge. I also understand that this permit is valid for a period of six (6) months.

Jerry Muff 10-9-96
Signature Date

Any changes to the permit must first be approved by Becker County Planning & Zoning. No system shall be covered up without inspection by Becker County Planning & Zoning.

Site Plan as approved on Site Evaluation.

attached

For Office Use Only

Application Fee 45⁰⁰ State Surcharge .50 Total 45⁵⁰

[] Application is hereby denied

[x] Application is hereby granted to R Hogberg to install an individual septic system according to the specifications of the site evaluation and design submitted to the Becker County Environmental Services Office. By Order of:

Heidi Moltze
Signature of Becker County Qualified Employee

10-8-96
Date

This permit expires on 4-9-97