



100684801



Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTs)

Doc Type: Compliance and Enforcement

Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms -- additional local requirements may also apply.

Submit completed form to Local Unit of Government (LUG) and system owner within 15 days

For local tracking purposes:

RECEIVED

SEP 16 2015

ZONING

System Status

System status on date (mm/dd/yyyy): 9/16/2015

Compliant – Certificate of Compliance

(Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)

Noncompliant – Notice of Noncompliance

(See Upgrade Requirements on page 3.)

Reason(s) for noncompliance (check all applicable)

- Impact on Public Health (Compliance Component #1) – Imminent threat to public health and safety
- Other Compliance Conditions (Compliance Component #3) – Imminent threat to public health and safety
- Tank Integrity (Compliance Component #2) – Failing to protect groundwater
- Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwater
- Soil Separation (Compliance Component #4) – Failing to protect groundwater
- Operating permit/monitoring plan requirements (Compliance Component #5) – Noncompliant

Property Information

Parcel ID# or Sec/Twp/Range: 100684801

Property address: 31298 SW Pickeral Lake Rd. Reason for inspection: county request

Property owner: James Thomas Owner's phone: 847-2057

or

Owner's representative: _____ Representative phone: _____

Local regulatory authority: Becker County Regulatory authority phone: 846-7314

Brief system description: pressure bed

Comments or recommendations:

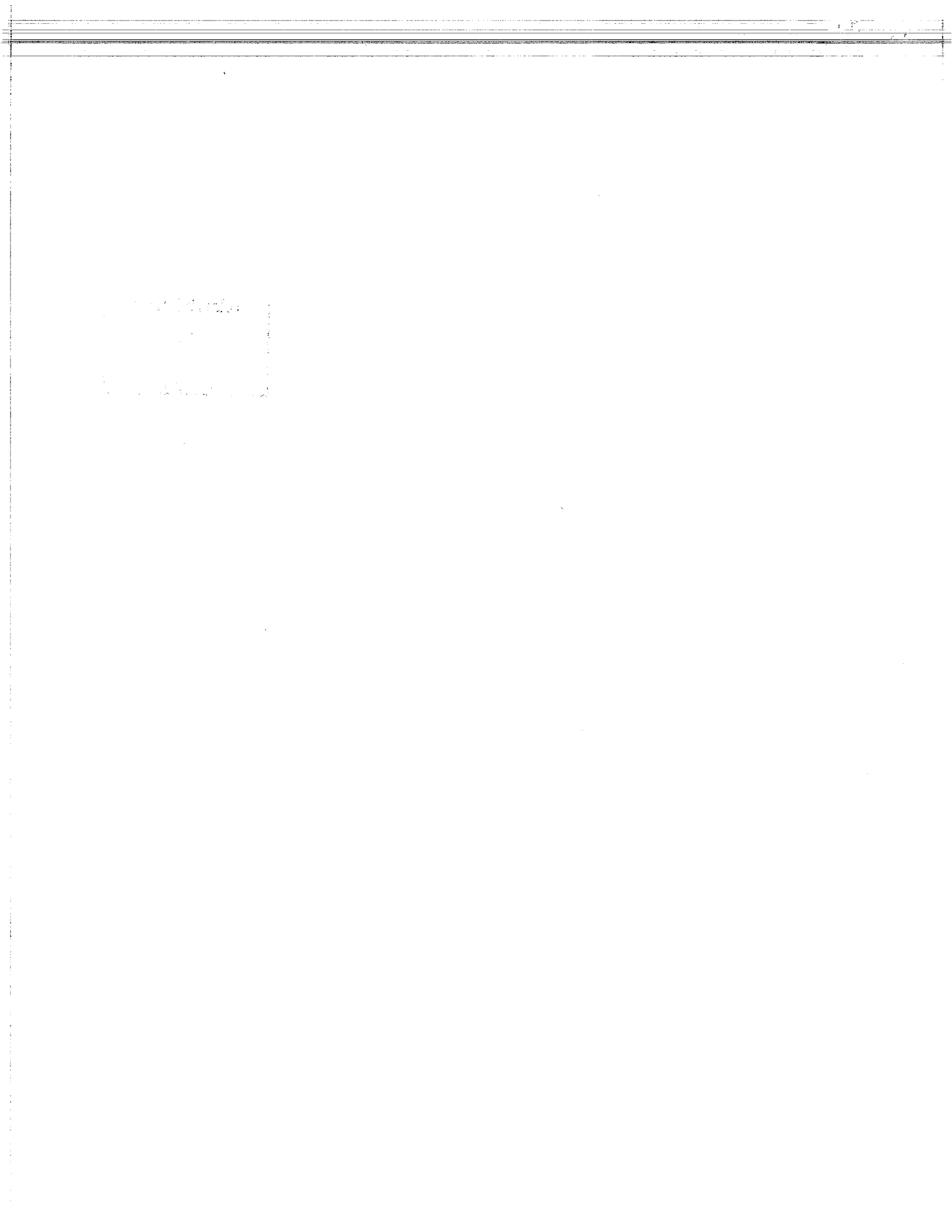
Certification

I hereby certify that all the necessary information has been gathered to determine the compliance status of this system. No determination of future system performance has been nor can be made due to unknown conditions during system construction, possible abuse of the system, inadequate maintenance, or future water usage.

Inspector name: Randy Anderson Certification number: 3044

Business name: Anderson On-Site License number: 634

Inspector signature: Phone number: 218-849-3072



Necessary or Locally Required Attachments

Soil boring logs

System/As-built drawing

Forms per local ordinance

Other information (list): _____

Property address: 31298 SW Pickeral Lake Rd.

Inspector initials/Date: RA | 9/16/2015

(mm/dd/yyyy)

1. Impact on Public Health – Compliance component #1 of 5

Compliance criteria:

System discharges sewage to the ground surface. Yes No

System discharges sewage to drain tile or surface waters. Yes No

System causes sewage backup into dwelling or establishment. Yes No

Any "yes" answer above indicates the system is an imminent threat to public health and safety.

Comments/Explanation:

Verification method(s):

Searched for surface outlet

Searched for seeping in yard/backup in home

Excessive ponding in soil system/D-boxes

Homeowner testimony (See Comments/Explanation)

"Black soil" above soil dispersal system

System requires "emergency" pumping

Performed dye test

Unable to verify (See Comments/Explanation)

Other methods not listed (See Comments/Explanation)

2. Tank Integrity – Compliance component #2 of 5

Compliance criteria:

System consists of a seepage pit, cesspool, drywell, or leaching pit. Yes No

Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.

Sewage tank(s) leak below their designed operating depth. Yes No

If yes, which sewage tank(s) leaks:

Any "yes" answer above indicates the system is failing to protect groundwater.

Comments/Explanation:

Verification method(s):

Probed tank(s) bottom

Examined construction records

Examined Tank Integrity Form (Attach)

Observed liquid level below operating depth

Examined empty (pumped) tanks(s)

Probed outside tank(s) for "black soil"

Unable to verify (See Comments/Explanation)

Other methods not listed (See Comments/Explanation)

3. Other Compliance Conditions – Compliance component #3 of 5

a. Maintenance hole covers are damaged, cracked, unsecured, or appear to be structurally unsound. Yes* No Unknown

b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. Yes* No Unknown
***System is an imminent threat to public health and safety.**

Explain:

c. System is non-protective of ground water for other conditions as determined by inspector. Yes* No
***System is failing to protect groundwater.**



Explain:

Property address: 31298 SW Pickeral Lake Rd.

Inspector initials/Date: RA | 9/16/2015
(mm/dd/yyyy)

4. Soil Separation – Compliance component #4 of 5

Date of installation: 10/14/1999 Unknown
(mm/dd/yyyy)
Shoreland/Wellhead protection/Food beverage lodging? Yes No

Compliance criteria:

For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food, beverage or lodging establishment: Yes No
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.

Non-performance systems built April 1, 1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment: Yes No
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*

"Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080, 2350 or 7080, 2400 (Advanced Inspector License required) Yes No
Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.

Verification method(s):

Soil observation does not expire. Previous soil observations by two independent parties are sufficient, unless site conditions have been altered or local requirements differ.

- Conducted soil observation(s) (Attach boring logs)
- Two previous verifications (Attach boring logs)
- Not applicable (Holding tank(s), no drainfield)
- Unable to verify (See Comments/Explanation)
- Other (See Comments/Explanation)

Comments/Explanation:

soils:0-7 sandy loam 10yr2/1
7-16 sandy loam 10yr4/3
16-36 sandy loam 10yr4/4
36-70sand 10yr6/4

Indicate depths or elevations

| | |
|--|----|
| A. Bottom of distribution media | 24 |
| B. Periodically saturated soil/bedrock | 70 |
| C. System separation | 46 |
| D. Required compliance separation* | 36 |

*May be reduced up to 15 percent if allowed by Local Ordinance.

Any "no" answer above indicates the system is failing to protect groundwater.

5. Operating Permit and Nitrogen BMP* – Compliance component #5 of 5 Not applicable

Is the system operated under an Operating Permit? Yes No If "yes", A below is required

Is the system required to employ a Nitrogen BMP? Yes No If "yes", B below is required

BMP = Best Management Practice(s) specified in the system design

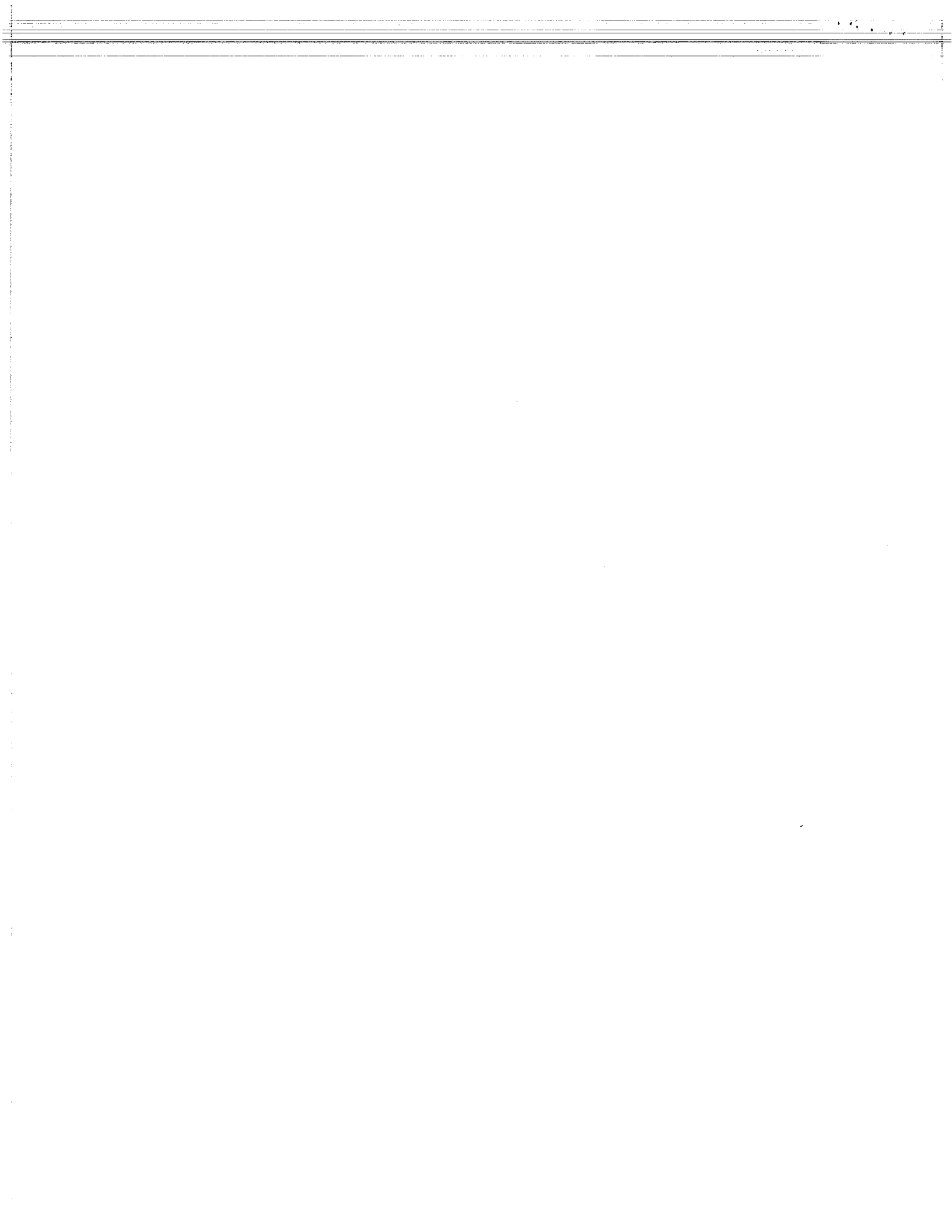
If the answer to both questions is "no", this section does not need to be completed.

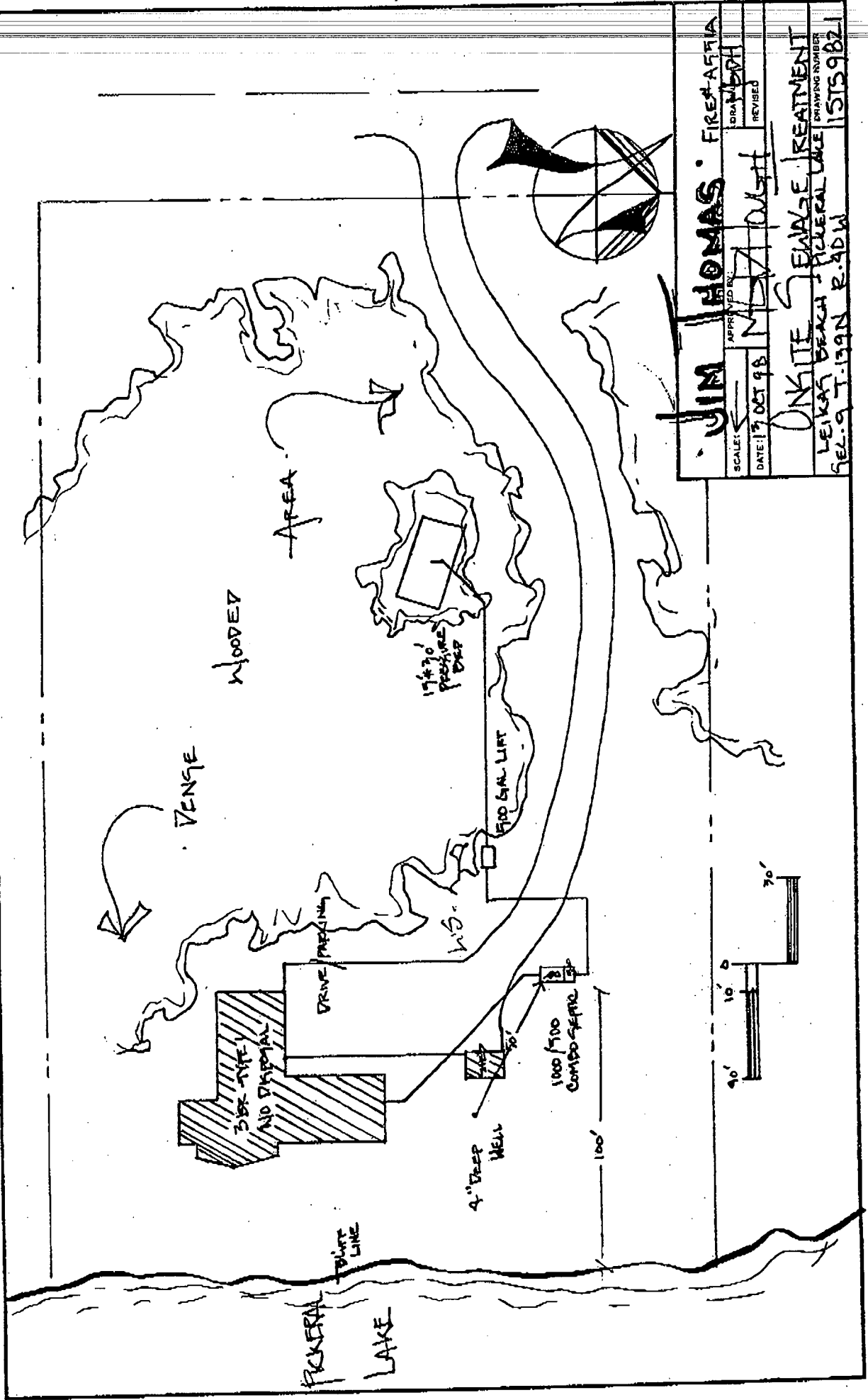
Compliance criteria

- a. Operating Permit number: _____ Yes No
Have the Operating Permit requirements been met?
- b. Is the required nitrogen BMP in place and properly functioning? Yes No

Any "no" answer indicates Noncompliance.

Upgrade Requirements (Minn. Stat. § 115.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect





JIM THOMAS FIRE-ARTIA

APPROVED BY: **M. A. DUGG**

SCALE: **1" = 10'**

DATE: **17 OCT 98**

ONKITE SEWAGE TREATMENT

LEIKAN BEACH - PICKERAL LAKE

REL-9 T-139N R-ADW

DRAWING NUMBER: **15TS9821**

REVISION:





APPLICATION

FOR SEWAGE SYSTEM

CERTIFICATE OF COMPLIANCE

With The Becker County Zoning Ordinance

| |
|----------------------------------|
| Application Number |
| Tax Parcel Number 10.0684.801 |
| Fire Number of Project Location |

A. GENERAL INFORMATION

| | | | | |
|---|------------------|-------------------------------------|---------------------|--|
| 1. Applicant's Name (Last, First, M.I.) Thomas, James + Susanne | | 2. Authorized Agent (if applicable) | | |
| 3. Mailing Address (Street, RFD, Box Number, City, State, Zip Code) 223 Sherman St. Detroit Lakes, MN. 56501 | | | | |
| 4. Day Phone | 5. Evening Phone | 6. Section 9 | 7. Township Erie | |

B. PROPERTY DESCRIPTION

1. Lot(s), Block, Subdivision Name
Lot 1 Block 1 Leikas Beach

| | |
|--|--|
| <p>SEWAGE SYSTEM DATA</p> <p>Anticipated Use</p> <p>a. <input checked="" type="checkbox"/> Single Family</p> <p>b. <input type="checkbox"/> Multiple Family</p> <p>c. <input type="checkbox"/> Commercial</p> <p>d. <input type="checkbox"/> Other (specify)</p> <p>Type of Installation</p> <p>a. <input type="checkbox"/> Septic Tank Only</p> <p>b. <input type="checkbox"/> Drainfield Only</p> <p>c. <input type="checkbox"/> Septic Tank & Drainfield</p> <p>d. <input type="checkbox"/> Holding Tank</p> <p>e. <input checked="" type="checkbox"/> Septic Tank/Drainfield Lift Station</p> <p>Type of Drainfield</p> <p>a. <input type="checkbox"/> Standard System</p> <p>b. <input checked="" type="checkbox"/> Mound (pressure distribution)</p> <p>Well Data</p> <p>a. Depth <u>>50'</u></p> <p>b. Diameter _____</p> <p>Type of Well</p> <p>a. <input checked="" type="checkbox"/> Drilled</p> <p>b. <input type="checkbox"/> Sand Point</p> | <p>1 Inch Equals _____</p> <p>DESIGN</p> <p style="text-align: center; font-size: 2em;">see drawing</p> <p style="text-align: center; font-size: 1.5em;">installed by Hannah Landscaping</p> <p style="text-align: center; font-size: 0.8em;">Show Distance Between Sewage System And Buildings, Property Lines, Lake, Road And All Wells Within 125 Feet:</p> |
|--|--|

| | | | | | |
|--|------------------|-------------------|--|-------------------|-----------------------------|
| | Tank | Drainfield | | Tank | Drainfield |
| Distances to Well: | = <u>50'</u> | = <u>>100'</u> | Distance to Pressure Line: | = <u>750'</u> | = <u>>100'</u> |
| Distance to Building: | = <u>750'</u> | = <u>>100'</u> | Tank Capacity (gal. & Area of Drainfield (ft ²)) | = <u>1500</u> | = <u>450 FT²</u> |
| Distance to Property Line: | = <u>>10'</u> | = <u>>10'</u> | Distance to Ordinary High Water Level: | = <u>>100'</u> | = <u>>100'</u> |
| Drainfield separation from Highest Known Ground Water Level, Impervious Lens or Soil Mottling: | | | | = | = <u>23'</u> |

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

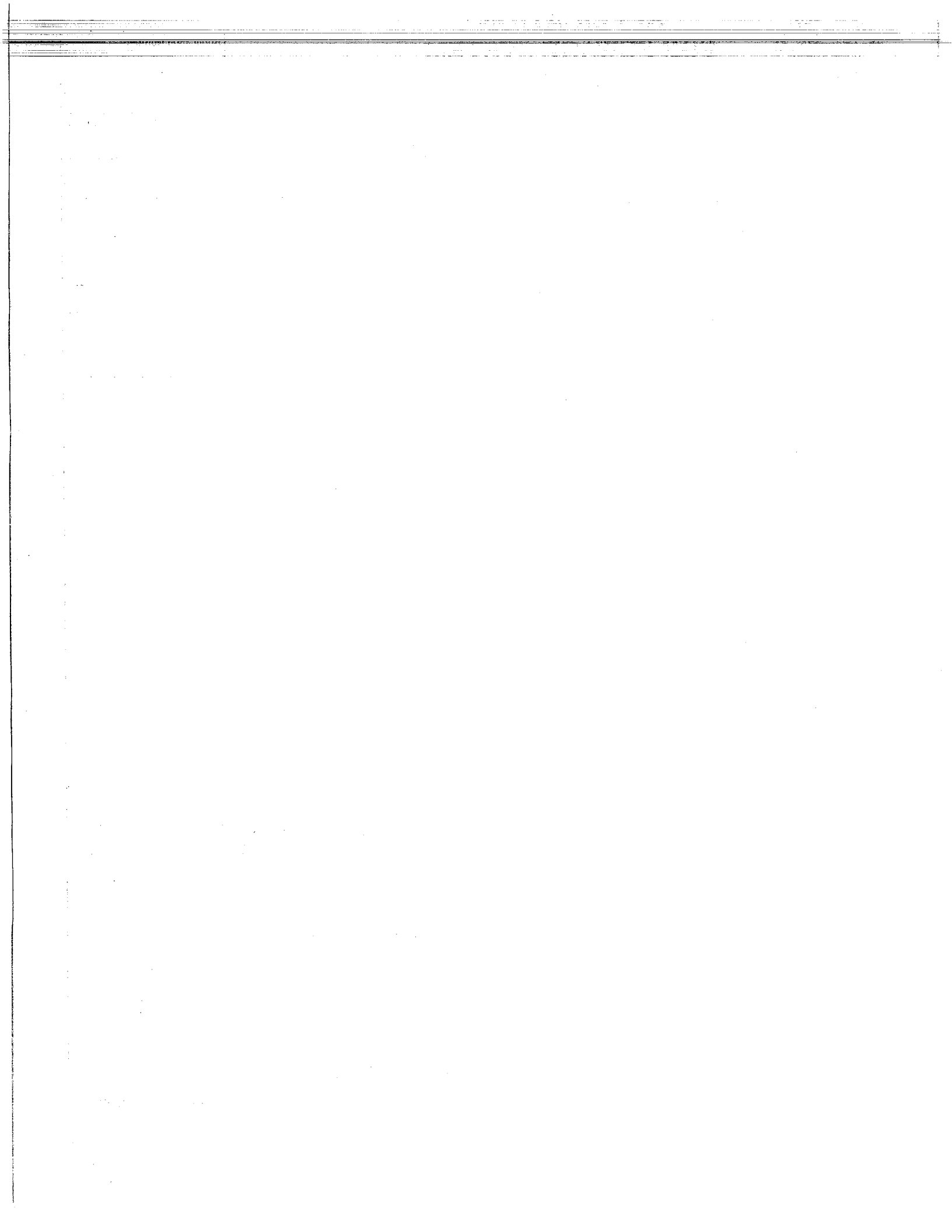
() CERTIFICATE IS HEREBY DENIED: (See back For Reasons)

(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

Gay D. Hansen
Signature

Inspector 20 Nov 98
Title Date



BECKER COUNTY PLANNING & ZONING

835 Lake Avenue, P.O. Box 787

Fire Number

Detroit Lakes, MN 56502-0787

Phone (218) 846-7314, Fax (218) 846-7266

A551A

Onsite Septic System Site Evaluation/Design

Tax Parcel Number 10.0684.801

Legal Description: 20+1 LEIKAS BEACH

| | | | | | |
|---|-------------------------------------|-------------------------|------|--------------|---------------|
| Lake/Stream Name | Lake/Stream Class | Section | TWP | Range | Township Name |
| PICKERAL R.D. | | 9 | 139N | 40W | ERIE |
| Property Owner | Address | City, State, Zip Code | | Phone Number | |
| JAMES THOMAS | 223 SHERMAN ST. DET. LKS., MN 56501 | DETROIT LAKES, MN 56501 | | 218.847.2057 | |
| Name and Address of Designer | | | | | |
| MICHAEL HUGH | P.O. BOX 2 | DETROIT LAKES, MN 56502 | | 218.847.7391 | |
| MPCA NUMBER | PHONE | Date of Site Evaluation | | | |
| 770 | 218.847.7391 | 30 SEPT 98 | | | |
| Name and Address of Installer | | | | MPCA Number | |
| HUGH LANDSCAPING, INC. P.O. BOX 2 - DET. LKS. | | | | 770 | |

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

Signature of Designer [Signature] Date 14 OCTOBER 98

FOR USE BY BECKER COUNTY ENVIRONMENTAL SERVICES DEPARTMENT ONLY

Date Site Evaluation / Design received _____ Received by _____

Date Site Evaluation approved 10/11/98 Approved by [Signature]

- *** 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.
- *** Inspections must be scheduled at least 24 hours prior to time requested.

Application Fee 75⁰⁰ State Surcharge .50 Total 75⁵⁰

Application is hereby denied

Application is hereby granted to J. Thomas 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:

[Signature] 10/14/98

Signature of Becker County Qualified Employee Date

This permit expires on 10/14/99

Inspected by _____ Date _____ Permit # 12795

TEST HOLE #1

TEST HOLE #2

| DEPTH IN INCHES | SOIL TEXTURE | MUNSELL COLOR | STRUCTURE | DEPTH IN INCHES | SOIL TEXTURE | MUNSELL COLOR | STRUCTURE |
|-------------------------|--------------|---------------|-----------------------------|-------------------------|--------------|---------------|-----------------------------|
| 0-4 | SANDY LOAM | 5YR 3/3 | BLOCKY PLATY PRISMATIC NONE | 0-6 | SANDY LOAM | 5YR 3/3 | BLOCKY PLATY PRISMATIC NONE |
| 4-12 | SAND | 5YR 4/4 | BLOCKY PLATY PRISMATIC NONE | 6-14 | SAND | 5YR 4/4 | BLOCKY PLATY PRISMATIC NONE |
| 12-72 | SAND | 10YR 6/4 | BLOCKY PLATY PRISMATIC NONE | 14-72 | SAND | 10YR 6/4 | BLOCKY PLATY PRISMATIC NONE |
| | | | BLOCKY PLATY PRISMATIC NONE | | | | BLOCKY PLATY PRISMATIC NONE |
| Depth to standing water | NA | | | Depth to standing water | NA | | |
| Depth to mottling | NA | | | Depth to mottling | NA | | |

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

WOODLAND PLATEAU 2% SLOPE

WATER USES: DESIGN FLOW 450 GPD

GRINDER PUMP/LIFT STATION IN HOUSE

() YES (X) NO

(X) Washing Machine NO. of Bedrooms 3
 (X) Dishwasher NO. of Bathrooms 2
 (X) Water Softner SQ FT of Structure ~1900
 (X) Garbage Disposal

WELL INFORMATION:
 Property's Well - Depth 750' Drilled (X) Sandpoint ()
 Neighboring Well - Depth NA Drilled (X) Sandpoint ()
 (within 100 feet of system) 750' DEEP & 7100' AWAY

| Work Category Proposed | Type of System Proposed | Type of Drainfield Proposed |
|--|--|--|
| (X) NEW SYSTEM () REPAIR () REPLACEMENT | (X) SEPTIC TANK/DRAINFIELD () DRAINFIELD ONLY () HOLDING TANK (X) LIFT STATION () ALTERNATE (specify) | () STANDARD (gravelless/chamber) () STANDARD (rock trench) () STANDARD (bed) () MOUND (pressure distb) (X) PRESSURIZED BED |
| Perc Rate <u>3.02</u> | Soil Sizing Factor <u>.83</u> | Depth to Restricting Layer <u>> 72"</u> |
| Maximum Depth of System <u>48" (COVER CODE)</u> | Size of Tank <u>1500-2000</u> | Size of Lift Station <u>500</u> |
| Size of Gravelless Pipe <u>NA</u> | Size of Drainfield <u>450</u> Sq Ft | Length of System <u>NA</u> |
| Size of Mound Rock Bed <u>450 SF (15'x30')</u> | Size of Mound Rock Bed <u>450 SF (15'x30')</u> | Depth of Clean Sand <u>NA</u> |
| Depth of Rock <u>12"</u> | Size of Lift Pump <u>.50HP ABS</u> | Length of Lift Line <u>NA</u> |
| Number of Trenches <u>BED</u> | Size of Lift Line <u>2" DIA.</u> | |
| Additional Information: | | |

- PERCOLATION TEST SHEET -

Test hole location: W1E1D Hole # 1 Date test hole was prepared: 7/28/98
 Depth of hole bottom: 24 inches Diameter of hole: 5 inches
 Soil Data from test hole:

depth, inches
 0-4
 4-12
 12-24

soil texture:
 SANDY LOAM
 SAND
 SAND

soil color:
 DK BROWN
 REDDISH BROWN
 LIGHT BROWN

Method of scratching sidewall: NAI - BOARD Depth of pea size gravel in bottom of hole: 2 inches
 Date and hour of initial water filling: 7:00 AM 9/7/00 Depth of initial water filling: 12" above hole bottom
 Method used to maintain 12" of water depth in hole for 4 hours: NA - SAND
 Percolation test conducted by: RWIN Percolation test started at 7:00 (4:00 PM)
 Maximum water depth above hole bottom during test: 12" inches

| TIME | INTERVAL (MINUTES) | WATER DEPTH | WATER DROP (fraction) | WATER DROP (decimal) | PERC RATE CALCULATION | PERC RATE (Decimal) |
|------|--------------------|-------------|-----------------------|----------------------|-----------------------------------|---------------------|
| 7:00 | START | 12" | | 4 | $10 \cdot \frac{4.0}{10} = 4.0$ | 4.0 |
| 7:10 | REFILL | 8 1/4" | 3/4 | 3.25 | $10 \cdot \frac{3.25}{10} = 3.25$ | 3.25 |
| 7:20 | REFILL | 8 7/8" | 3/8 | 3.13 | $10 \cdot \frac{3.13}{10} = 3.13$ | 3.13 |
| 7:30 | REFILL | 8 7/8" | 3/8 | 3.13 | $10 \cdot \frac{3.13}{10} = 3.13$ | 3.13 |
| | REFILL | | | | | |
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| | REFILL | | | | | |

Ten Percent Calculation *

A, B, C, D, E
 Largest # of ABC - Smallest # of ABC = 2.50
 Smallest # of ABC x 0.10 = .25

C, D, E
 Largest # of CDE - Smallest # of CDE = 3.19
 Smallest # of CDE x 0.10 = .11

D, E, F
 Largest # of DEF - Smallest # of DEF = 3.08
 Smallest # of DEF x 0.10 = .11

F, G, H
 Largest # of FGH - Smallest # of FGH = 3.15
 Smallest # of FGH x 0.10 = .11

PERC 1 $3.08 + 3.19 + 3.19 = 3.15$
 PERC 2 $2.86 + 2.91 + 2.91 = 2.89$

- PERCOLATION TEST SHEET -

Test hole location: E1E1D Hole # 2 Date test hole was prepared: 7/28/98
 Depth of hole bottom: 24 inches Diameter of hole: 5 inches
 Soil Data from test hole:

depth, inches
 0-4
 4-12
 12-24

soil texture:
 SANDY LOAM
 SAND
 SAND

soil color:
 DK BROWN
 REDDISH BROWN
 LIGHT BROWN

Method of scratching sidewall: NAI - BOARD Depth of pea size gravel in bottom of hole: 2 inches
 Date and hour of initial water filling: 7:00 AM 9/7/00 Depth of initial water filling: 12" above hole bottom
 Method used to maintain 12" of water depth in hole for 4 hours: NA - SAND
 Percolation test conducted by: RWIN Percolation test started at 7:00 (4:00 PM)
 Maximum water depth above hole bottom during test: 12" inches

| TIME | INTERVAL (MINUTES) | WATER DEPTH | WATER DROP (fraction) | WATER DROP (decimal) | PERC RATE CALCULATION | PERC RATE (Decimal) |
|------|--------------------|-------------|-----------------------|----------------------|-----------------------------------|---------------------|
| 7:00 | START | 12" | 3/12 | 3.90 | $10 \cdot \frac{3.90}{10} = 3.90$ | 3.90 |
| 7:10 | REFILL | 8 1/2" | 3/16 | 3.44 | $10 \cdot \frac{3.44}{10} = 3.44$ | 3.44 |
| 7:20 | REFILL | 8 1/2" | 3/16 | 3.44 | $10 \cdot \frac{3.44}{10} = 3.44$ | 3.44 |
| | REFILL | | | | | |
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| | REFILL | | | | | |
| | REFILL | | | | | |

Ten Percent Calculation *

A, B, C, D, E
 Largest # of ABC - Smallest # of ABC = 2.86
 Smallest # of ABC x 0.10 = .29

C, D, E
 Largest # of CDE - Smallest # of CDE = 3.02
 Smallest # of CDE x 0.10 = .10

D, E, F
 Largest # of DEF - Smallest # of DEF = 3.02
 Smallest # of DEF x 0.10 = .10

F, G, H
 Largest # of FGH - Smallest # of FGH = 3.02
 Smallest # of FGH x 0.10 = .10

PERC 1 $3.15 + 2.89 = 3.02$
 PERC 2 $2.86 + 2.91 + 2.91 = 2.89$

Septic System Design/Site Evaluation

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

*Dimensions of Lot

*Existing & Proposed Buildings

*Easements & setbacks

*Location of any Unsuitable Soil

*Well & Water Line Locations
within 100 ft of System

*Distance from Property Lines

*Tank Access Route

*Soil Borings & Per Test Locations

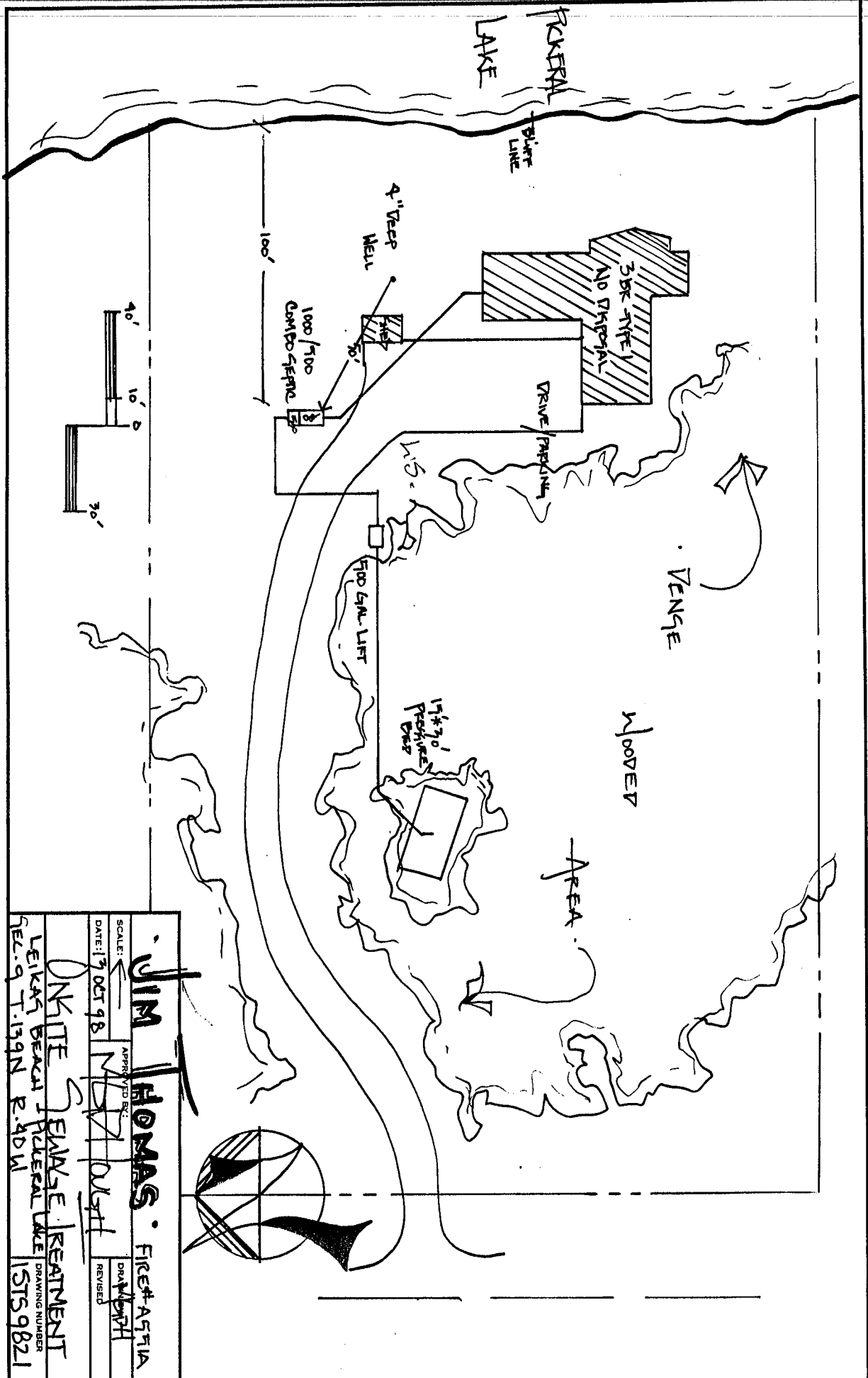
*Distance from OHWM

*Distance from buildings

*Scale - One inch = _____ ft



SEE ~~ATTACHED~~



| | |
|---------------------------------|-----------------------------|
| JIM THOMAS - FIRE# A571A | |
| APPROVED BY: | DRAWN BY: W. J. BUSH |
| DATE: 7 OCT 98 | REVISED: |
| DNKITE SEWAGE TREATMENT | |
| LEIKAS BEACH MILLERAL LAKE | |
| TEL: 9 T. 139N R. 40W | DRAWING NUMBER |
| | 15TS 9821 |

