TIM - 612-990-8658

2011 purple code

Holding tank Design

www.SepticResource.com (vers 19.2)

Property Owner: Jabez Holdings **Date:** 4/30/2024

Site Address: 21796 442nd place Aitkin **PID:** 11-0-000801

Comments: pump and crush marked tanks install new 2250 three comp tank for campers

instructions: = site specific input = adjust if desired = self-calculated (DO NOT ADJUST)

1) 2 bedroom Type II Residential System

2) 100 GPD design flow

No Lift station to holding tank (lift basket < 100 gal treat as sewer line, > 100 gal treat as tank)

3) 2250 Gallon Holding tank (minimum) at 12.00 gpi

4) 141 inches from bottom of tank to "Hi Level" float (75% full when alarm activates)

5) 563 gallons reserve capacity (after High Level Alarm is activated)

I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

Designer Signature	Company 218-851-2013	License#	Date
RK	218SEPTIC	L4197	4/30/2024

INSTALL FLOAT ALARM

TWP - 44
RNG - 27
SEC - 5
HAZELTON TWP

INSPECTOR CHECK LIST - Holding Tank

21796 442nd place Aitkin

☐ WELL setbacks: 20'-50' to sewer line req's MDH pressure test form (5 psi for 15 min)
50' to everything

☐ PROPERTY LINES setback: 10' to everything

☐ Road setback: platted : 10' prop line. Metes & bounds : out of road easement, or outer ditch

☐ LAKE / BLUFF setback: 20' for bluff. Lakes: GD ___, RD ___, NE ____. Protected wetland ___.

☐ Building setbacks: 10' for everything.

☐ WATER LINE under pressure 10' to tank & sewer line. (else sewer line > 12" below)

☐ Sewer line & tank connection (no hard 90's, long sweep 90 or 2- 45's, slope minimum 1" in 8' = 1%)
(no depth req's, clean out every 100', Sch 40 pipe)

☐ No Lift station to Holding tank (lift basket < 100 gallons treat as sewer line, >100 gal treat as tank)

☐ Holding tank and risers (water tight risers, insulated, proper depth, existing verified by pumping)
mfg_____ 2250 gallons

☐ Riser within 12" of grade, 6"+ access pipe to grade.

☐ High Level Alarm (set at 75% capacity) (electrical or mechanical) 141 inches from bottom of tank

☐ Water tight testing form

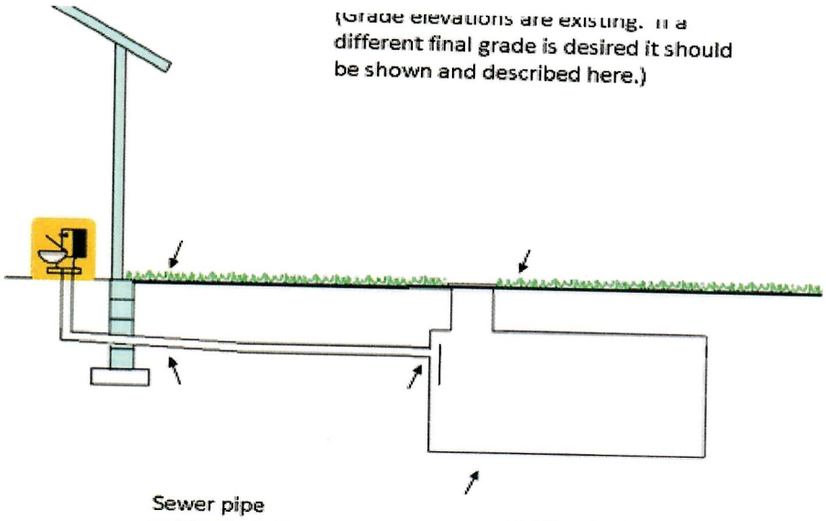
☐ Re-use existing tank certification
☐ Abandon existing system if necessary
☐ monitoring plan and type _____
☐ well abandonment form if necessary

System Elevations

_____ benchmark_____

/Grade elevations are existing. If a

(Grade elevations are existing. If a different final grade is desired it should be shown and described here.)



Sewer pipe exiting house

109 Grade

106 Pipe

Holding Tank

106 Grade

100 inlet

115 Tank bottom

MAX COVER OVER TANK

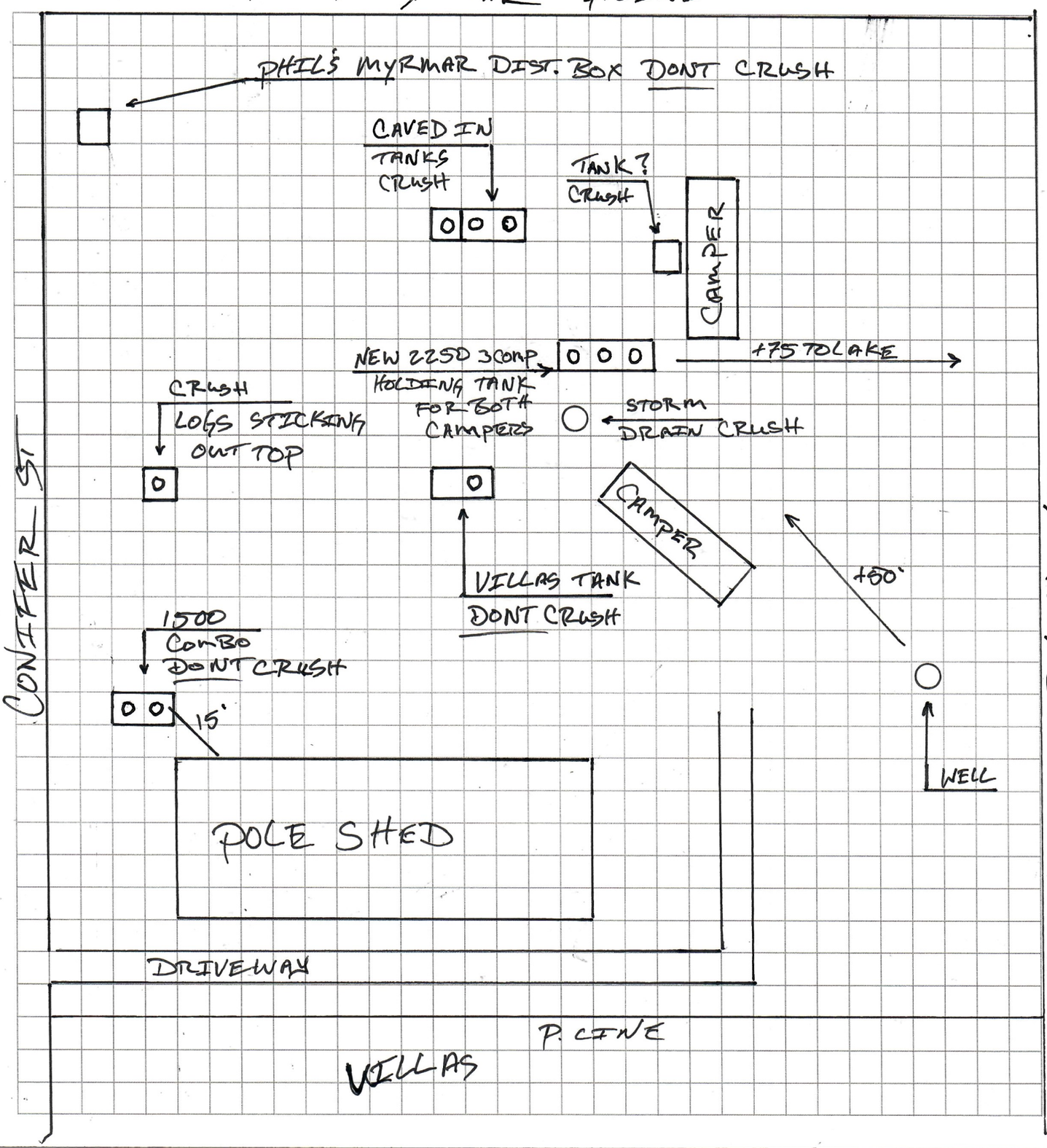
INSTALL CLEANOUTS FOR CAMPER HOSES.

218 SEPTIC
DESIGN+INSPECTION
218-851-2013

PARCEL #	11-0-000801
DATE	4/30/24

LICENSE -L4197

PHILS MYRMAR P.CINE



Property address: 21740, 21760, 21780 442nd Place, Aitkin | Inspector initials/Date: MJ | 8/4/2014

4. Soil Separation - Compliance component #4 of 5

Date of installation: 1982 ☐ Unknown

Shoreland/Wellhead protection/Food Beverage Lodging? ☑ Yes ☐ No

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:
Compliance inspection from 2003.

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: Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.	☐ Yes ☐ No
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: Drainfield has a three-foot vertical separation distance from periodically saturated soil bedrock. *	☑ Yes ☐ No
"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) Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.	☐ Yes ☐ No

Indicate depths of elevations

A. Bottom of distribution media	42"
B. Periodically saturated soil/bedrock	78"
C. System separation	36"
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 #5 of 5

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:

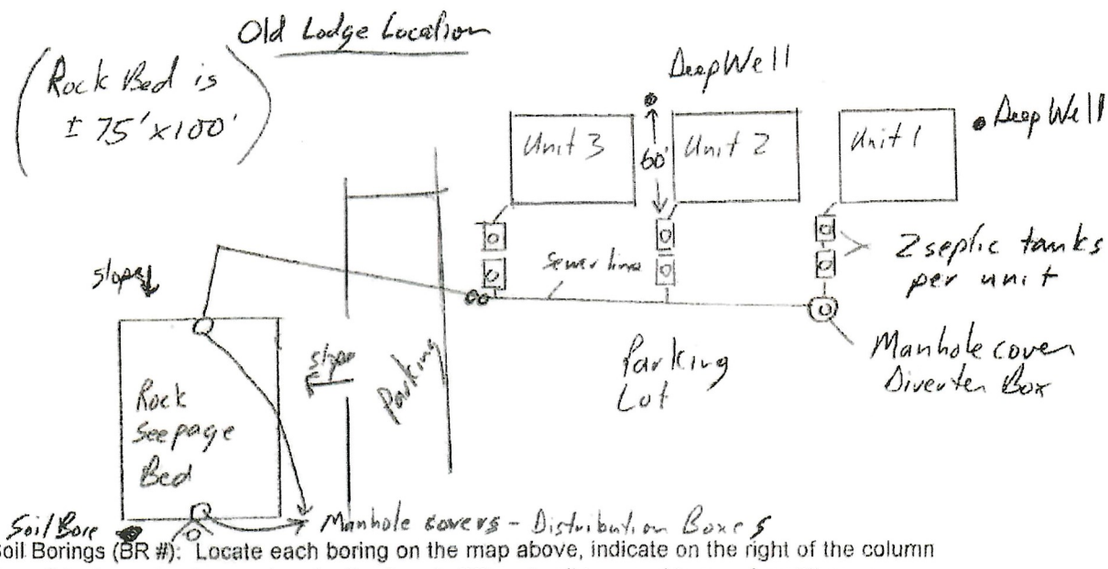
a. Operating Permit number: _____ Have the Operating Permit requirements been met?	☐ Yes ☐ No
b. Is the required nitrogen BMP in place and properly functioning?	☐ Yes ☐ No

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 ground water, the system must be upgraded, replace, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, repaired, replaced, or its use discontinued, notwithstanding any local ordinance that is more strict. This provision does not apply to systems in shoreland areas, Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.*

Site Sketch:

Name: Myr Mar Villas Assoc. 1, 2, and 3 Lake Re Code: 11-1-168500 thru 174200



Soil Borings (BR #): Locate each boring on the map above, indicate on the right of the column the soil texture, structure, color, depth of each different soil type, evidence of mottling, bedrock and standing water. Also, indicate if the material is fill.

	BR #		BR #
0 - 8"	Topsoil	10YR 3/3	
8" - 78"	Loam	10YR 4/4	

Approximately 42" Bottom of elevated rock seepage bed drain field.

3 ft. of seperation

RECORD DEPTH OF MOTTLING, SEASONAL, SEASONAL HIGH WATER (AS INDICATED USING THE MUNSELL COLOR BOOK) OR BEDROCK ON ABOVE LINES

Found cracks still on top of some of the tanks. No changes to the size of the cracks. No infiltration from them.

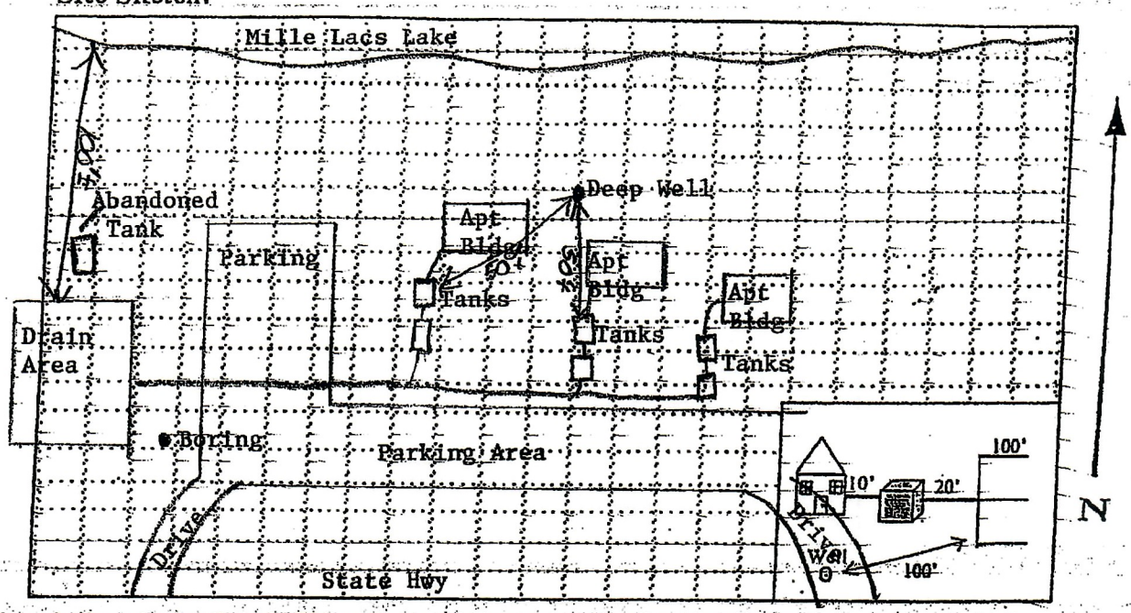
What needs to be completed to bring the above system into compliance if found not in compliance?

Nothing

Myr Mar Villas Association 1, 2, 3

10/6/03

Site Sketch:



Please indicate the location of: Well, well setback to system, dwelling or other establishment, tank(s). soil treatment system, reserved soil treatment area, curtain drain, property lines, waterways, and buried lines (those NOT installed by the utility). Include sizes and length and approximate distances from fixed reference points such as streets and buildings. Please attach as-built drawings, inspection reports, Certificat(s) of Compliance and Notice(s) of Noncompliance, if alvailable.

Soil Borings (BR #): Locate each boring on the map above, indicate on the right of the column the soil texture, structure, color, depth of each different soil type, evidence of mottling, bedrock and standing water. Also indicate if the material is fill.

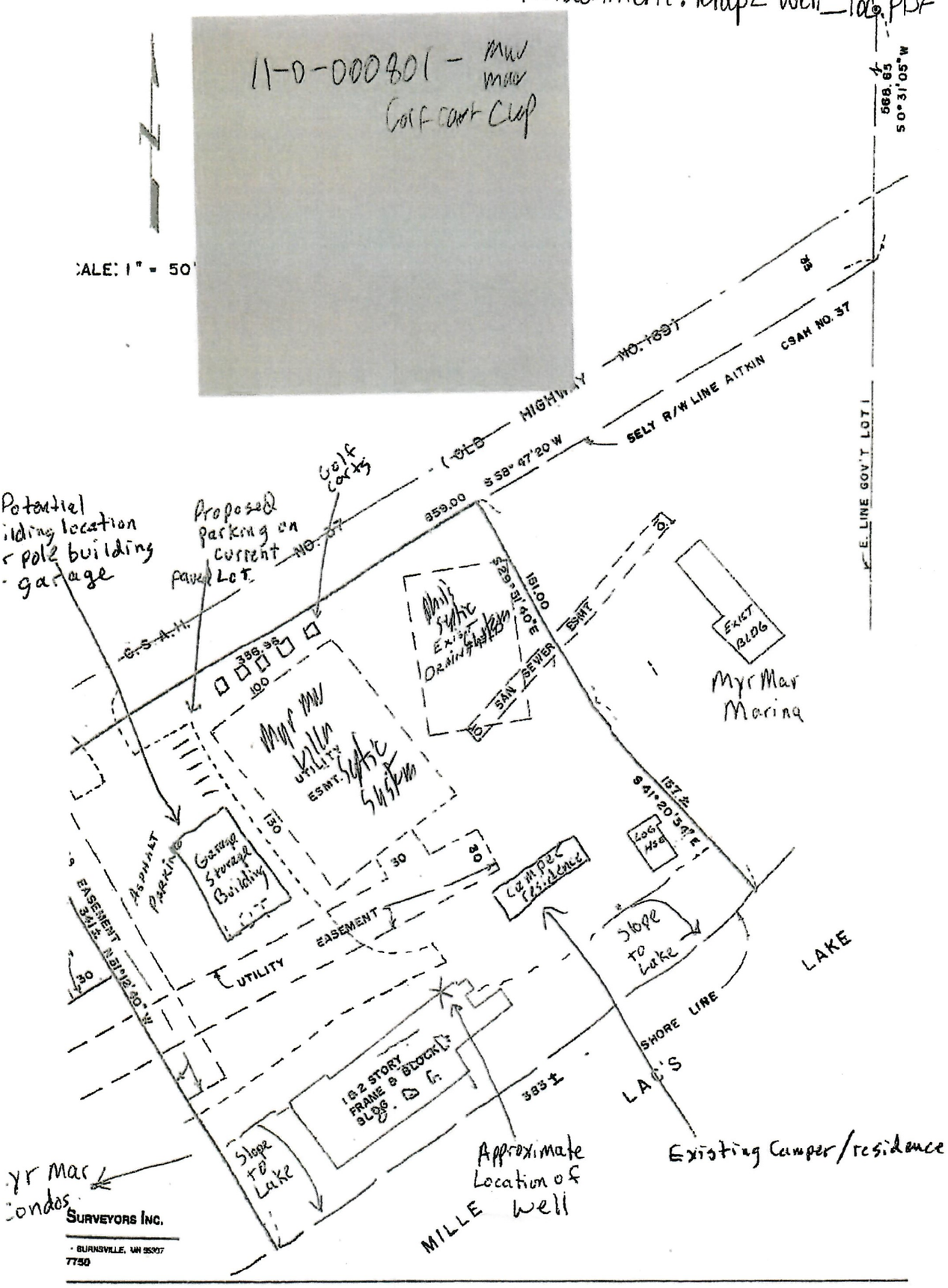
BR #	BR #	BR #	BR #	BR #	BR #
0–4", Topsoil					
4" – 60", Loam, 10YR, 3/4, Dark Yellowish Brown					

RECORD DEPTH OF MOTTLING, SEASONAL HIGH WATER (AS DETERMINED USING THE MUNSELL COLOR BOOK) OR BEDROCK ABOVE LINES

Comments: System appeared to be working on the date of this inspection. No warranties implie Tanks were pumped and inspected, 3 of the tanks had large cracks in them. Tanks were repaired and made water tight by Sather Concrete Products.

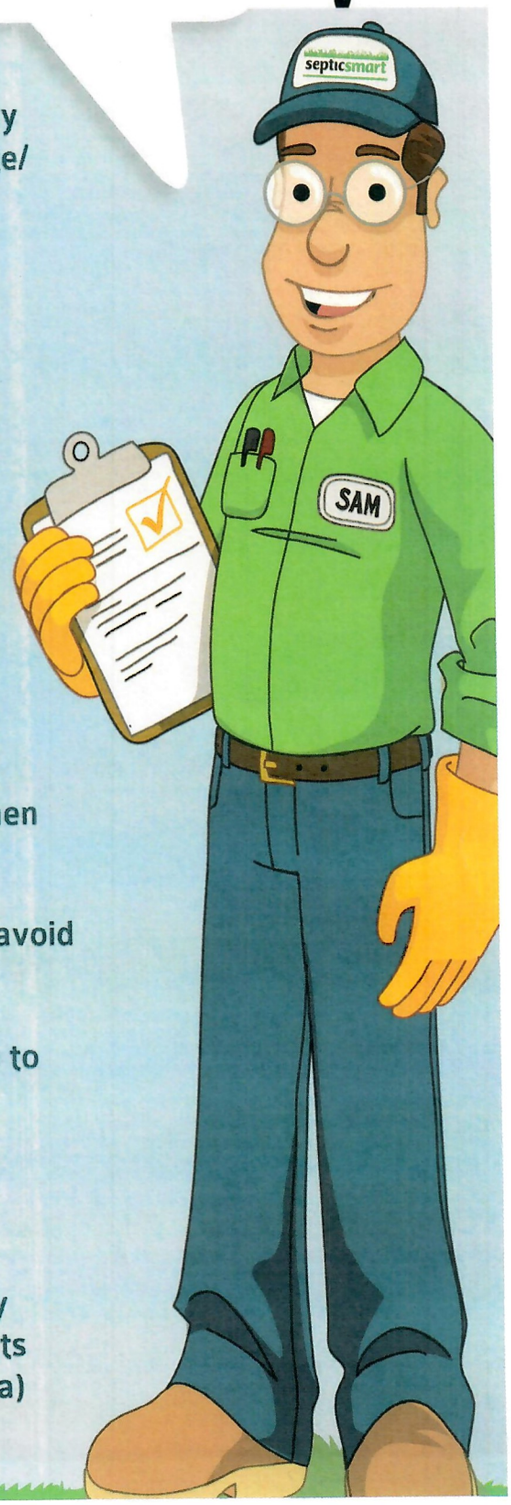
Attachment: Map2-well_loc.PDF

11-0-000801 - MW
MAR
Golf cart Crsg



Top 10 Ways to Be a Good Septic Owner

- Have your system inspected every three years by a qualified professional or according to your state/ local health department's recommendations
- Have your septic tank pumped, when necessary, generally every three to five years
- Avoid pouring harsh products (e.g., oils, grease, chemicals, paint, medications) down the drain
- Discard non-degradable products in the trash (e.g., floss, disposable wipes, cat litter) instead of flushing them
- Keep cars and heavy vehicles parked away from the drainfield and tank
- Follow the system manufacturer's directions when using septic tank cleaners and additives
- Repair leaks and use water efficient fixtures to avoid overloading the system
- Maintain plants and vegetation near the system to ensure roots do not block drains
- Use soaps and detergents that are low-suds, biodegradable, and low- or phosphate-free
- Prevent system freezing during cold weather by inspecting and insulating vulnerable system parts (e.g., the inspection pipe and soil treatment area)



HOLDING TANK PUMPING SERVICE AGREEMENT

Permit # _____ Address 21796 442ND PL

THIS AGREEMENT, entered into by and between Aitkin County Registered Septic Tank Pumper, Timber Lakes Septic Service, hereinafter referred to as "Contractor", and TIM JOHNSON hereinafter referred to as "Homeowner".

WHEREAS, Homeowner desires and is required to retain individual sewage treatment system holding tank services to protect the environment and to obtain a certificate of compliance from Aitkin County; and

WHEREAS, the Contractor desires to provide sewage treatment system pumping services to Homeowner as necessary and in accordance with the terms and conditions outlined herein.

NOW THEREFORE, in consideration of the mutual promises contained herein, Parties do hereby agree as follows:

1. **TERM**. The term of this Agreement shall be from _____ to final installation of an Aitkin County approved sewage treatment system or connection to a Municipal Sewage Treatment System, unless earlier terminated as provided herein. The parties understand and agree that this Agreement is intended to arrange for the provision of pumping services so that Homeowner may occupy the home pursuant to a certificate of compliance to be issued by the Aitkin County Environmental Services Department upon execution of this Agreement. Homeowner further agrees that at the earliest possible date, Homeowner shall have a permanent sewage treatment system installed in accordance with the Aitkin County Subsurface Sewage Treatment System Ordinance and as approved by the Aitkin County Environmental Services Department or connect to a Municipal Sewage Treatment System. Upon approval by the County of Aitkin of the individual sewage treatment system or connection to a municipal sewer, or approval by Aitkin County Environmental Services of an amended or different contract, this Agreement shall terminate.

2. **FREQUENCY OF PUMPING**. Homeowner agrees that he/she shall not allow the holding tank to overflow or discharge in any manner. Contractor and Homeowner agree that the holding tank shall be pumped in accordance with the following:

- Tank size (gal.) _____ / (number of household occupants multiplied by 75 gallons per day) = frequency of pumping: or
- Within 24 hours of indication by tank alarm of lack of capacity (applicable only if system has a functional alarm): or
- Whichever is greater

Contractor agrees to provide pumping services according to the regular pumping schedule or as needed to prevent discharge. Homeowner shall compensate Contractor as agreed by the parties for pumping services rendered.

3. **INSPECTION**. Holding tanks will be inspected by a licensed pumper at the time of servicing for leaks below the operating depth and whether tank tops, riser joints, and connections leak through visual evidence of major defects.

4. **REPORTING**. Grievances of Homeowner or Contractor shall be reported to the Aitkin County Environmental Services Department by Homeowner or Contractor. Homeowner and Contractor understand that failure to have holding tank pumped as herein specified or the discharge of any contents from the holding tank, regardless of fault, may result in the suspension, cancellation or revocation of the certificate of compliance, and the homeowner may be required to vacate the premises.

_____ _____

Contractor Homeowner

Date _____ Date _____