

# Holding tank Design

Property Owner: Michael & Peggy Anderson

Date: 10/17/2022

Site Address: 50976 202nd. Pl. McGregor, Mn.

PID: 29-1-506400

Comments: \_\_\_\_\_

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

1)  3 bedroom Type  II Residential System

2)  450 GPD design flow

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

3) *Two 1500 gal. 3000 gallon total*  
 1500 Gallon Holding tank (minimum) at  34.00 gpi

4)  33 inches from bottom of tank to "Hi Level" float (75% full when alarm activates)

5)  375 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.*

Jerry Farley  
Designer Signature

Farley Sewer Systems  
Company

L-1919  
License#

10/17/2022  
Date

# INSPECTOR CHECK LIST - Holding Tank

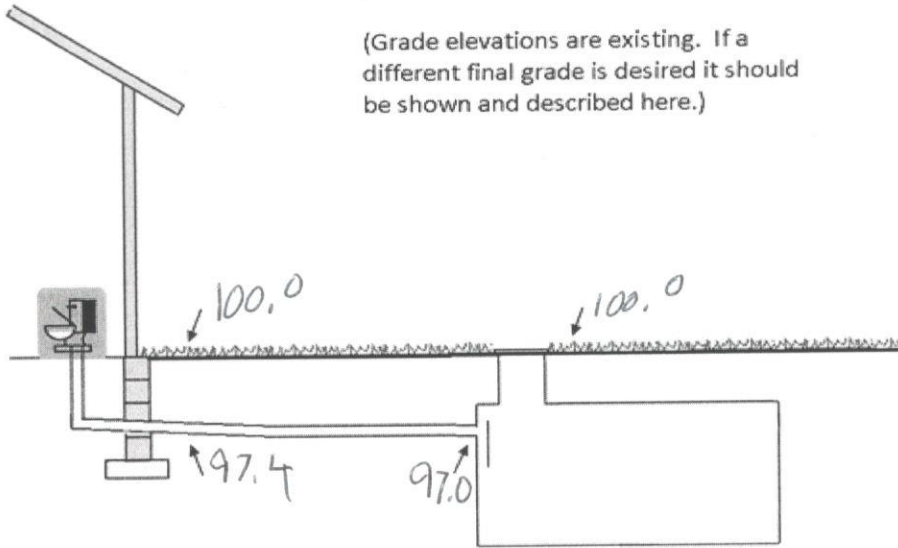
50976 202nd. Pl. McGregor, Mn.

- 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 \_\_\_\_\_ 1500 gallons
  
- Riser within 12" of grade, 6"+ access pipe to grade.
  
- High Level Alarm (set at 75% capacity) (electrical or mechanical) 33 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

100.0 benchmark Slab by driveway

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



Sewer pipe  
exiting house

100.0 Grade

97.4 Pipe

93.5

Holding Tank

100.0 Grade

97.0 inlet

93.5 Tank bottom

# FARLEY SEWER SYSTEMS

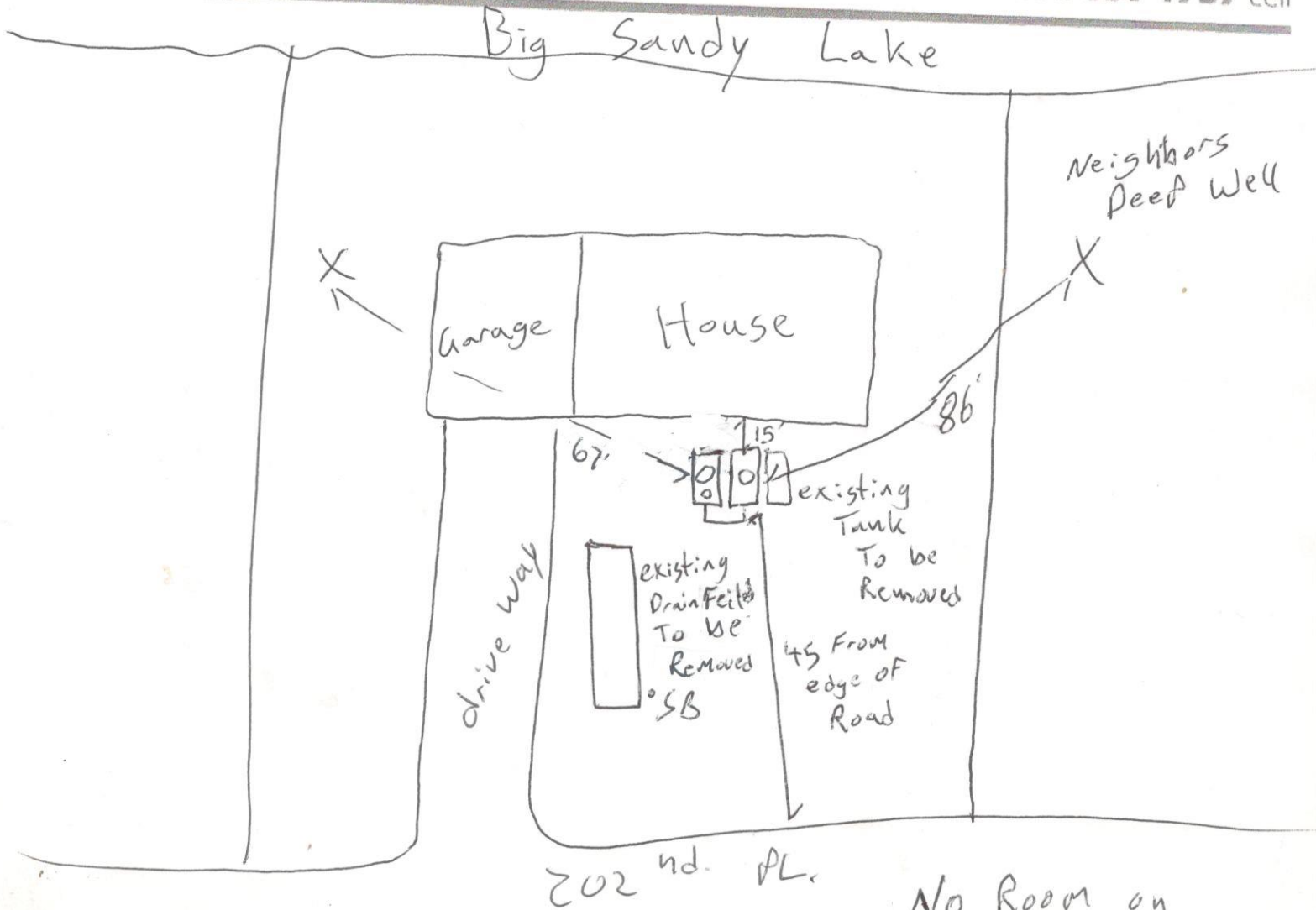
SEWER DESIGN & INSTALLATION

JAROLD R. FARLEY

P.O. Box 472  
McGregor, MN 55760

Bus. Lic. No. L1919  
Reg. No. 4744

218-839-4737 cell



## Soil Boring Info:

0-6" Top soil 10 y R 3/2

6-32" Sand gravel-clay 10 y R 4/4

Redox Features @ 32"

No Room on  
Property For a  
treatment area.

# Subsurface Sewage Treatment System Management Plan

Property Owner: Michael Anderson Phone: 612-877-0821 Date: 10-17-22

Mailing Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_

Site Address: 50976 202<sup>nd</sup> PL. City: Mchregor, MN. Zip: 55760

This management plan will identify the operation and maintenance activities necessary to ensure long-term performance of your septic system. Some of these activities must be performed by you, the homeowner. Other tasks must be performed by a licensed septic service provider.

System Designer: check every \_\_\_\_\_ months.  
Local Government: check every \_\_\_\_\_ months.  
State Requirement: check every 36 months.

**My System needs to be checked every 36 months.**

(State requirements are based on MN Rules Chapter 7090.2450, Subp. 2 & 3)

## Homeowner Management Tasks

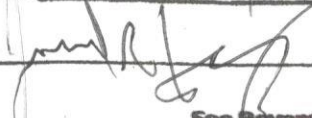
- Leaks* – Check (look, listen) for leaks in toilets and dripping faucets. Repair leaks promptly.
- Surfacing sewage* – Regularly check for wet or spongy soil around your soil treatment area.
- Effluent filter* – Inspect and clean twice a year or more.
- Alarms* – Alarm signals when there is a problem. Contact a service provider any time an alarm signals.
- Event counter or water meter* – Record your water use.  
-recommend meter readings be conducted (circle one: DAILY WEEKLY MONTHLY)

## Professional Management Tasks

- Check to make sure tank is not leaking
- Check and clean the in-tank effluent filter
- Check the sludge/scum layer levels in all septic tanks
- Recommend if tank should be pumped
- Check inlet and outlet baffles
- Check the drainfield effluent levels in the rock layer
- Check the pump and alarm system functions
- Check wiring for corrosion and function
- Check dissolved oxygen and effluent temperature in tank
- Provide homeowner with list of results and any action to be taken
- Flush and clean laterals if cleanouts exist

"I understand it is my responsibility to properly operate and maintain the sewage treatment system on this property, utilizing the Management Plan. If requirements in the Management Plan are not met, I will promptly notify the permitting authority and take necessary corrective actions. If I have a new system, I agree to adequately protect the reserve area for future use as a soil treatment system."

Property Owner Signature:  Date: 10/17/2022

Designer Signature:  Date: 10/17/2022

See Reverse Side for Management Log

## Maintenance Log

Activity	Date Accomplished
<b>Check frequently:</b>	
Leaks: check for plumbing leaks	
Soil treatment area check for surfacing	
Lint filter: check, clean if needed	
Effluent screen: if owner-maintained	
Water usage rate (monitor frequency _____)	
<b>Check annually:</b>	
Caps: inspect, replace if needed	
Sludge & Scum/Pump	
Inlet & Outlet baffles	
Drainfield effluent leaks	
Pump, alarm, wiring	
Flush & clean laterals if cleanouts exists	
Other: _____	
Other: _____	

Notes: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Mitigation/corrective action plan: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_