

## Aitkin County Holding Tank Design

Property Owner: David McMillan Date: 8/25/2020 Cell: \_\_\_\_\_  
 Mailing Address: 2120 London Rd Home Phone #: \_\_\_\_\_  
 City: Duluth State: MN Zip: 55812  
 Site Address: 43242 310th PL. Parcel Number: 08-1-070100  
 City: Palisade State: MN Zip: 56469  
 Driving Directions if no address issued : \_\_\_\_\_

Legal Description : Lot 2 Linden Shores  
 Sec : 16 Twp.: 48 Range : 25 Twp. Name : Fleming  
 Lake / River : Wilkins Lake / River Classification : RD

FLOW DATA		Estimated Flow in Gallons per Day (GPD)			
		Bedrooms	Class I	Class II	Class III
Number of Bedrooms :	<u>2</u>	2	300	225	180
Dwelling Classification :	<u>I</u>	3	450	300	218
System Type :	<u>II</u>	4	600	375	256
Gallons per Day ( GPD ) :		5	750	450	294
		6	900	525	332
		7	1050	600	370
		8	1200	675	408

<b>WELLS</b> Deep Well : <u>Proposed Deep</u> Shallow Well : <u>Existing Shallow</u>	Wells to be sealed ( if Applicable ) ? <u>Existing Shallow</u>
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**SETBACKS**  
 Tank(s) to Well : +50' Drainfield to Well : NA Sewer Line to Well : \_\_\_\_\_  
 Tank(s) to House : +10' Drainfield to House : NA Air Test : NO  
 Tank(s) to Property Line : +10' Drainfield to Property Line : NA

**Additional System Notes and Information:** Wilkins Lowest Floor Elv. = 1221.59  
Owner to seal existing shallow well. Proposed deep well SE of new house  
Design for 2 1500 gal. holding tanks. Lot is too small for new mound and cabin.  
Existing Mound is too small and questionable

Designer Name : Jeff Brummer License Number : L-1347  
 Address : 7450 Burr Ln. City : Brainerd State : MN  
 Zip Code : 56401 Home Phone # : \_\_\_\_\_ Cell: 218-821-0704  
 E-Mail Address : brummerseptic@gmail.com

Designer Signature :  Date: 8/25/2020  
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**Aitkin County { Design Notes }**

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Property Owner: David McMillan Date: 8/25/2020 Designer's Initials : JB  
PIN : 08-1-070100 Page :        of

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Owner Proposes two 1500 gal. Holding tanks, for small Lot with no room for Type I system Pump, collapse, fill, or remove existing tanks. Abandon existing mound.

Existing shallow well to be sealed and the Proposed deep well will be SE of new house.

Installer should order 1st holding tank with side inlet, set both tanks in pad for house if possible.

Installer will raise manholes to above grade. Raise manholes to above Elv. 1221.59'

Bench Mark Elv. Is the nail in the tree on West lot line, Elv.= 1222.6' Lowest floor is 3 ft above highest know water elevation of lake. Elv. = 1221.59'

Install alarm in 2nd tank at approx. 50% of tank capacity, this will be approx. 750 gal. reserve capacity.

Owner will need a Holding Tank Pumping Service Agreement.

**Setbacks are**

- 50 ft. from well
- 10 ft. from lot line
- 10 ft. from road easement
- 10 ft. from structure.
- 75 ft from lake    Tanks will be +75' from lake

Owner should install protection around tank to keep traffic off tank.

~~Owner will need variance for house and tanks setback from lake  
Tanks will be approx 60 ft from lake.~~

# Aitkin County { Holding Tank Design }

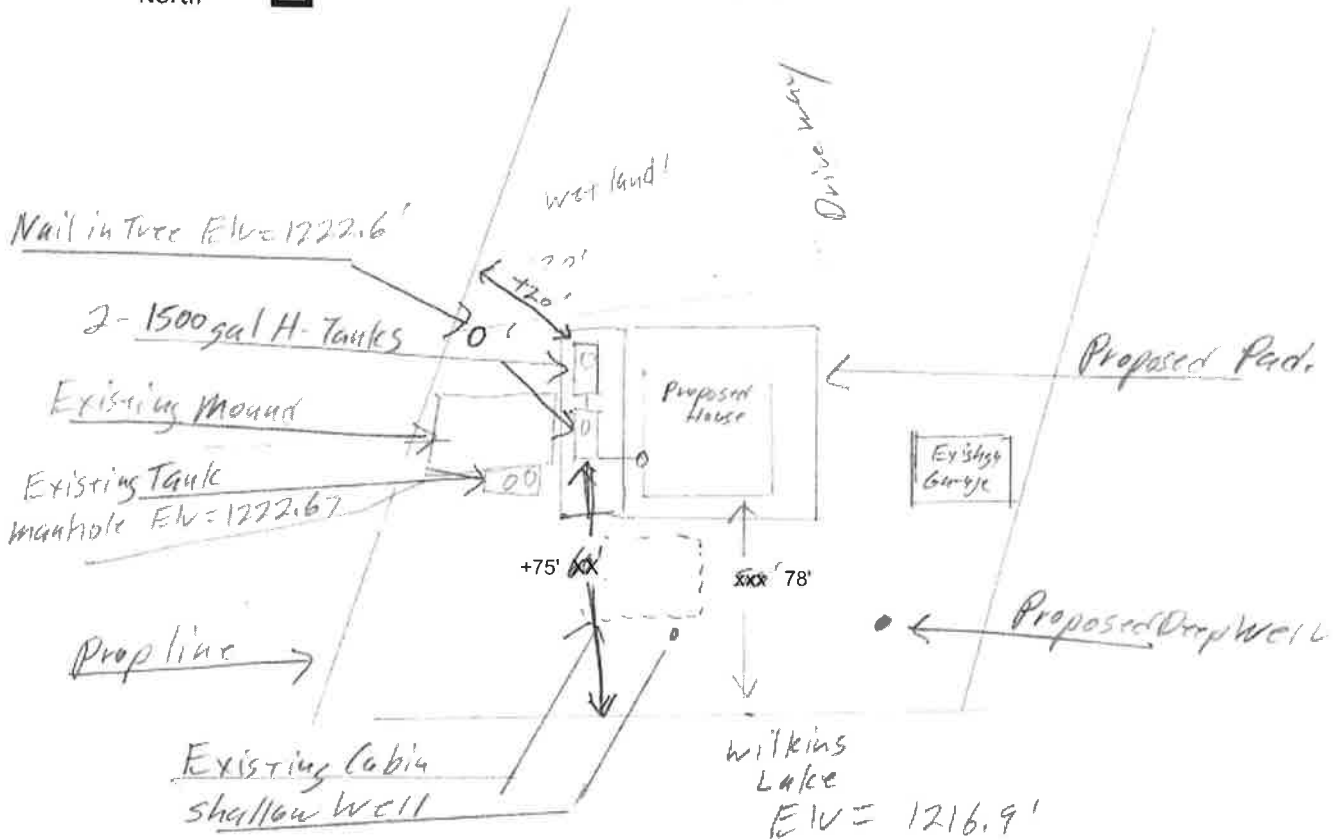
Property Owner:  
One Inch = 40 ft.

David McMillan

Date: 8/25/2020

Designer's Initials: JB

North



Existing Grade at proposed house corners

- SE - 1221.7'
- SW - 1222.2'
- NE - 1220.5'
- NW - 1220.2'

Wilkins Lake Lowest Floor Elv. = 1221.59 OHW = 1217.1 ( 1929)

Please show all that apply ( Existing or Proposed ): Please Draw to Scale with North to Top or Left Side of Page:

Wells within 100ft. Of Drain field.

Water lines within 10 ft. of Drain field.

Drain field Areas:

Disturbed/Compacted Areas

Component Location

OHW ordinary high water

Lot Easements

Access Route for Tank Maintenance

Property Lines

Structures

Setbacks

**Elevations :** Benchmark Elevation:

Elv. = 1222.6' Nail on Tree NW of proposed house

Existing tank manhole cover Elv. = 1222.67'

Estimated Grade at cleanout = 1221.7'

Existing grade at cabin West side Elv. = 1222.4'

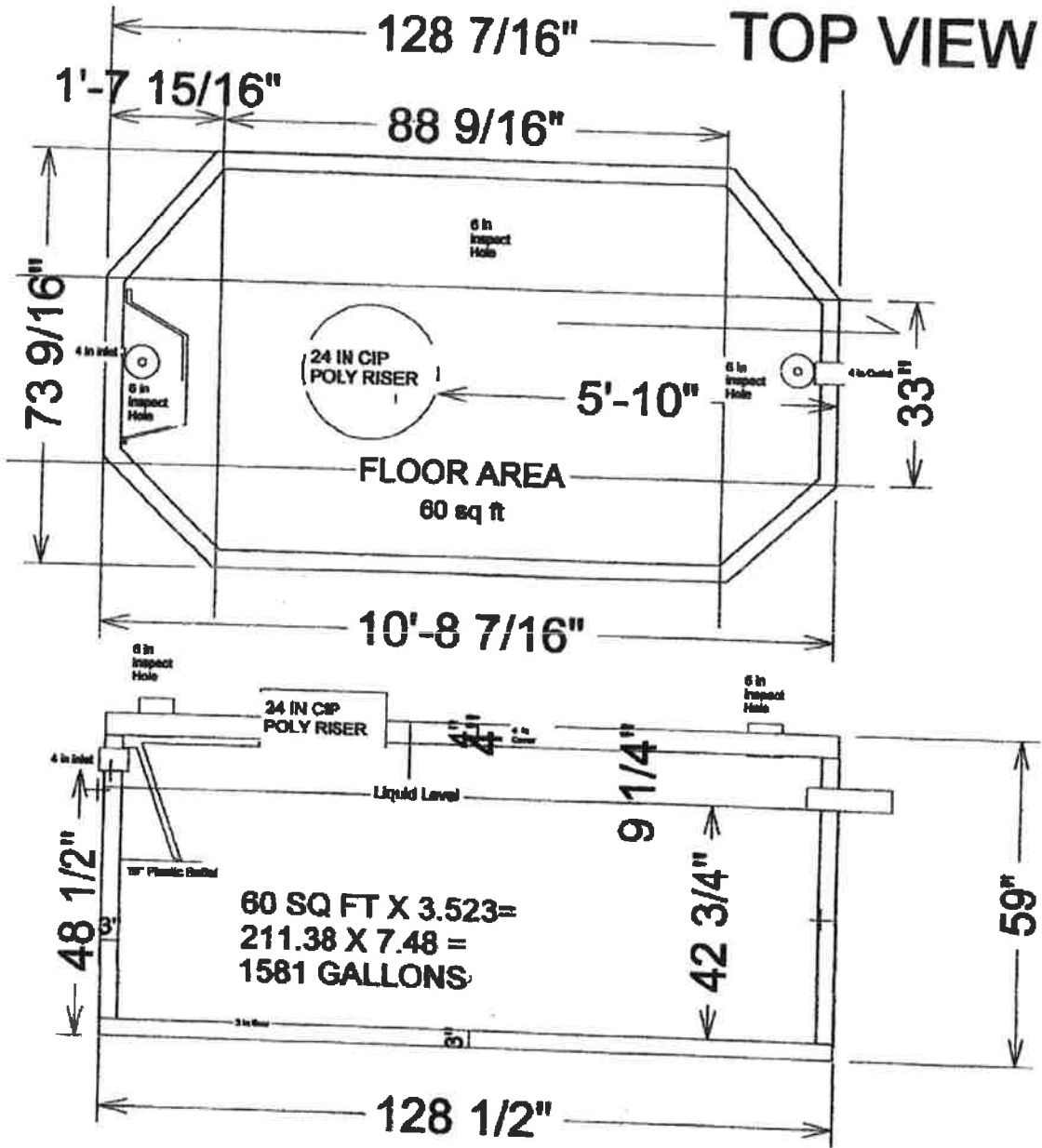
Estimated 1st tank inlet Elv. = 1221.5'

Estimated Top of new house pad Elv. = 1222.7'

Top of Existing Shallow well pipe Elv. = 1222.2'

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# 1500H Holding Tank



35.08 gallons per. inch

## **SIDE VIEW**

Drawings Owned BY Jacobson Precast, LLC  
 36641 HWY 169, Aitkin, Mn 56431  
 Do not copy drawings without permission of the Owner

**HOLDING TANK PUMPING SERVICE AGREEMENT**

Permit # \_\_\_\_\_ Address 43242 310th Pl. Palisade MN 56469

THIS AGREEMENT, entered into by and between Aitkin County Registered Septic Tank Pumper, Goble's Sewer Service Inc., hereinafter referred to as "Contractor", and David McMillan, 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);
- 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 8/25/2020

Date \_\_\_\_\_

Goble's Sewer Service Inc. (218) 927-6175  
1037 1st St. NW Aitkin MN 56431  
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David McMillan  
43242 310th Pl.  
Palisade Mn 56469





