

Aitkin County Holding Tank Design

24-111

Property Owner: Derek Nelson Date: 6/27/2024 Cell: 507-402-6959
Mailing Address: 933 Trellis St. Home Phone #:
City: Jordan State: MN Zip: 55352
Site Address: 48471 197th Ave. Parcel Number: 29-1-155000
City: McGregor State: MN Zip: 55760
Driving Directions if no address issued :

Legal Description: Lots 121 & 122 Sheshebe Point
Sec: 21 Twp.: 49 Range: 23 Twp. Name: Shamrock
Lake / River: Minnewawa Lake / River Classification: GD

FLOW DATA Office in a shed part time use
Number of Bedrooms: Office
Dwelling Classification: I
System Type: II
Gallons per Day (GPD): 150

Table with 4 columns: Bedrooms, Class I, Class II, Class III. Rows 2-8 showing GPD values.

WELLS
Deep Well: Existing Deep
Shallow Well: None

Wells to be sealed (if Applicable) ?

SETBACKS

Tank(s) to Well: 150' Drainfield to Well: NA Sewer Line to Well:
Tank(s) to Shed: +10' Drainfield to House: NA Air Test: NO
Tank(s) to Property Line: +25' Drainfield to Property Line: NA

Additional System Notes and Information:

Owner to install 1500 poly Septic Tank as a Holding tank (may be used as Fututer septic tank)
Owner to protect area East of Shed for future septic site for future house.

Designer Name: Jeff Brummer License Number: L-1347
Address: 14650 Agate Ridge Road City: Brainerd State: MN
Zip Code: 56401 Home Phone #: Cell: 218-821-0704
E-Mail Address: brummerseptic@gmail.com

Designer Signature: [Signature] Date: 6/27/2024
Page: 1 Of

Aitkin County { Design Notes }

Property Owner: Derek Nelson Date: 6/27/2024 Designer's Initials : JB
Pin : 29-1-155000

Existing Septic Is compliant at time of Shed Permit. Shed will have an Office and bathroom.
Owner is planning a Future house and will need a new septic system at that time.
Owner to save Area up between Shed Driveway and 197th Ave for Future Septic Site.
Kevin wanted one soil bore to confirm soil in future septic site, (not a design at this time).
Install a 1500 gallon septic tank as a holding tank for the shed. Can be a state cert. Poly tank.
Install 4" clean-out near shed and 4" sewer pipe with gravity flow from shed to holding tank.
Owner can install a camper dump into holding tank's in-let end on tank.
Raise at All manholes to above finished grade.
Install electric alarm in tank at 75% of tank capacity
this will leave approx. 375 gallons of reserve capacity.
Tank will meet 50ft. Setback from well, and will meet 10 ft. setback to all property lines.
Tank will meet 10 ft. setback to buildings. Tanks will meet setback to lake 75'.
When Owner builds future house tie this tank into new septic system if possible.
Home owner has a pumping agreement with local pumper on file.

Setbacks are

- 50 ft. from well
- 10 ft. from lot line
- 10 ft. from road easement
- 10 ft. from structure.
- 75 ft Minnewawa Lake setback.

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

Designer Name : Jeff Brummer License Number : L-1347

Address : 14650 Agate Ridge Road City : Brainerd State : MN

Zip Code : 56401 Home Phone # : _____ Cell: 218-821-0704

E-Mail Address : brummerseptic@gmail.com

Designer Signature :  Date: 6/27/2024

Aitkin County { Holding Tank Design }

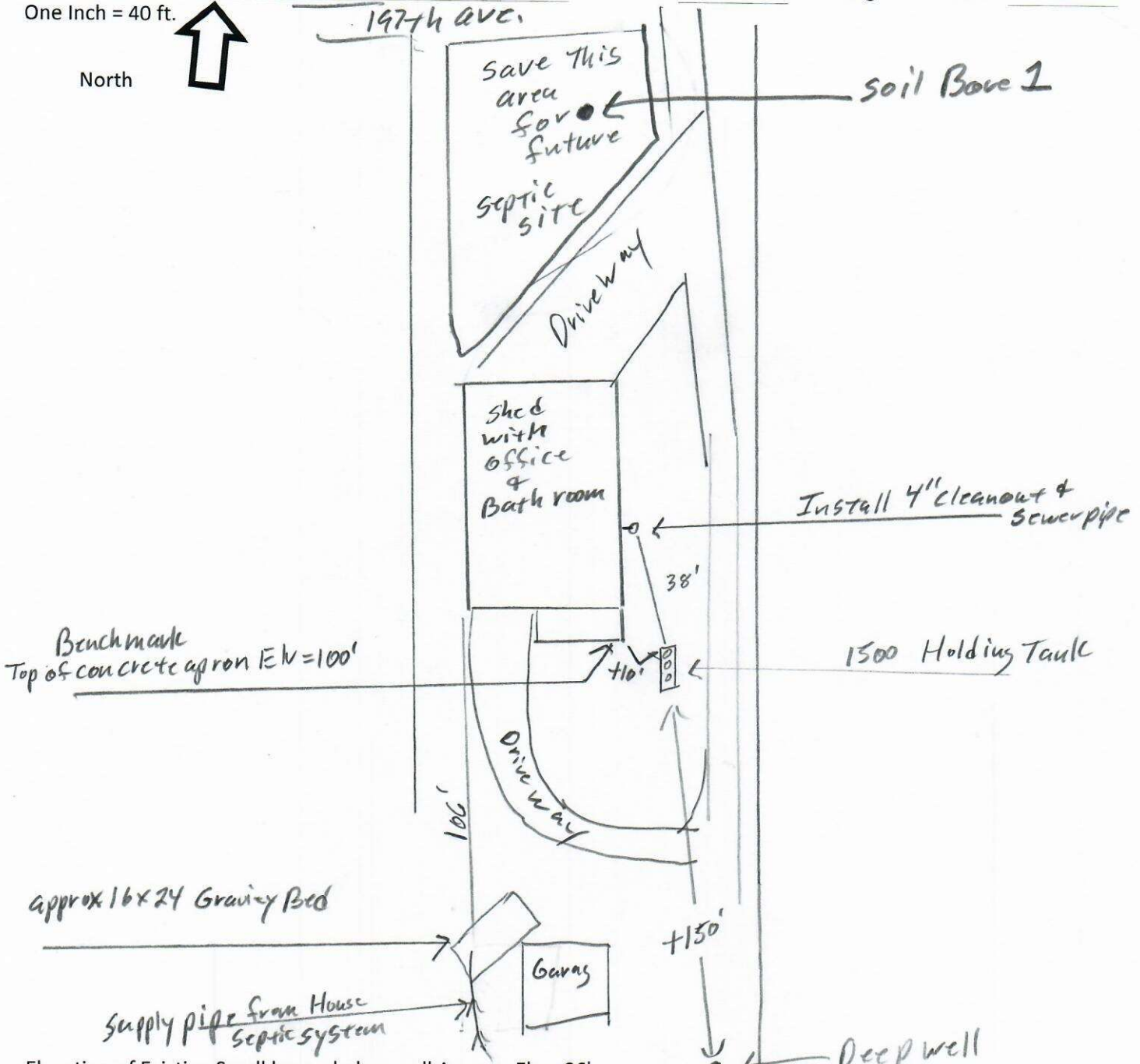
Property Owner:
One Inch = 40 ft.

Derek Nelson

Date: 6/27/24

Designer's Initials: JB

North



Elevation of Existing Small house below well Approx. Elv.= 86'.

Deep Well Grade Elv.= 90.3' Top of Deep Well Cap Elv.= 91.2' Existing Garage grade Elv.= 91.7'

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 | Access Route for Tank Maintenance |
| Component Location | Property Lines |
| OHW ordinary high water | Structures |
| Lot Easements | Setbacks |

Elevations : Benchmark Elevation:	Elv.= 100' Top of Concrete At SW corner of Shed Overhang
Proposed tank grade Elv.= 97.5'	Existing Grade at Sewer Pipe out-let of Shed Elv. = 99.6'
Proposed tank inlet Elv.= 96'	Top of sewer pipe at Shed Elv.= 98.2'
Existing 1st tank inlet Elv.= 93.4'	Top of Survey pin at SW lot Corner Elv.= 100.2'

Preliminary & Field Evaluation Form

www.SepticResource.com vers 12.4

Owner Information			
Date	<u>6/27/2024</u>	Sec / Twp / Rng	<u>S-21, T-49, R-23</u>
Parcel ID	<u>29-1-155000</u>	LUG (county, city, township)	<u>Aitkin Co.</u>
Property Owner:	<u>Derek Nelson</u>	Owners address (if different)	
Property Address:	<u>48471 197th Ave McGregor MN 55760</u>		<u>933 Trellis St</u>
City / State / Zip:			<u>Jordan MN 55352</u>

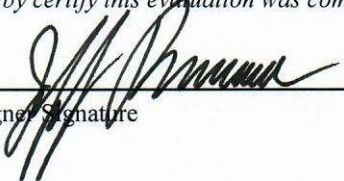
Flow Information and Waste Type / Strength			
Estimated Design flow	<u>Intermittent</u>	Anticipated Waste strength	<input type="checkbox"/> Hi Strength <input checked="" type="checkbox"/> Domestic
Comments: Area were soil tested is to be saved For future septic site when Future house is built Good possibilty of an inground, up to 3 - 4 bedrooms Install holding tank for shed with possibility of using as a Future Septic tank.		Any Non-Domestic Waste	<input type="checkbox"/> Yes (class V) <input checked="" type="checkbox"/> No
		Sewage ejector/grinder pump	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Water softener	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Garbage Disposal	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Daycare / In home business	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Site Information					
Existing & proposed lot improvements located (see site map)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Well casing depth	Existing Deep Well	
Easements on lot located (see site map)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Drainfield w/in 100' of residential well	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Property lines determined (see site map)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Site w/in 200' of transient noncommunity water supply (TNCWS)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Req'd setbacks determined (see site map)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Site w/in an inner wellhead mgmt zone (CWS/NTNCWS)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Utilities located & identified (gopher state one call)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Buried water supply pipe w/in 50' of system	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Access for system maintenance (shown on site map)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Site located in Shoreland (w/in 1000' of lake, 300' of river)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Soil treatment area protected	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Site map prepared with previous items included	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Construction related issues	<u>Install a 1500 gallon Septic tank to be used as a Holding Tank</u>				

Soil Information

		Evidence of site:	
		Cut	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Filled	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Compacted	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Disturbed	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Original soils	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Soil logs completed and attached	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Perk test completed and attached (if applicable)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Soil loading rate (gpd/ft ²)	<u>0.78</u>	Percolation rate (if applicable)	_____
Depth/elev to SHWT	<u>65"</u>	Flooding or run-on potential (comments)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Depth to system bottom maximum (or elev minimum)	<u>29"</u>	Flood elevation (if applicable)	_____
Depth/elev to standing water (if applicable)	_____	Elevation of ordinary high water level (if applicable)	<u>1224.7'</u>
Depth/elev to bedrock (if applicable)	_____	Floodplain designation and elev - 100 yr/10 yr (if applicable)	<u>1225.4'</u>
Soil Survey information determined (see attachment)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Holding Tank at Approx. Elv.= 1262'	
Differences between soil survey and field evaluation (if applicable)	_____ _____		

I hereby certify this evaluation was completed in accordance with MN 7080 and any local req's.



 Designer Signature

Brummer Septic LLC.

 Company

L-1347

 License #

Soil Observation Log

www.SepticResource.com vers 12.4

Owner Information	
Property Owner / project: <u>Derek Nelson</u>	Date <u>6/27/2024</u>
Property Address / PID: <u>48471 197th Ave McGregor MN 557</u>	

Soil Survey Information	
<input type="checkbox"/> refer to attached soil survey	
Parent matl's:	<input type="checkbox"/> Till <input type="checkbox"/> Outwash <input type="checkbox"/> Lacustrine <input type="checkbox"/> Alluvium <input type="checkbox"/> Organic <input type="checkbox"/> Bedrock
landscape position:	<input type="checkbox"/> Summit <input type="checkbox"/> Shoulder <input type="checkbox"/> Side slope <input type="checkbox"/> Toe slope
soil survey map units:	_____ slope <u>3</u> % direction- <u>west</u>

Soil Log #1							
		<input checked="" type="checkbox"/> Boring	<input type="checkbox"/> Pit	Elevation _____	Depth to SHWT <u>65"</u>		
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 6	Topsoil Sandy Loam	<35	10YR3/2		Loose	Loose	Granular
6 - 28	Sandy Loam	<35	10YR5/4	Some small rocks	Loose	Loose	Granular
28 - 65	Med Sand	<35	10YR5/4		Loose	Loose	Granular
65 - 72	Med Sand	<35	10YR5/4	7.5YR5/6	Loose	Loose	Granular
Comments: Kevin with Aitkin Co. wanted one soil bore in Future site area to confirm availibility Owner to same area for future septic site for future house							



Map may not be valid at this scale. Data was mapped at an accuracy of 1:24,000 so any representation of the data at a larger scale is not advised.

These data are provided on an "AS-IS" basis, without warranty of any type, expressed or implied, including but not limited to any warranty as to their performance, merchantability, or fitness for any particular purpose.

Nelson



Web AppBuilder for ArcGIS

1:1,128 0 0.005 0.01 mi 1 inch = 94 feet

Date: 6/17/2024



Detailed Parcel Report

Parcel Number: 29-1-155000

General Information

Township/City:	SHAMROCK TWP		
Taxpayer Name:	NELSON, DEREK E & BETH HAJEK		
Taxpayer Address:	933 TRELIS ST JORDAN MN 55352		
Property Address:	48471 197th Ave		
Township:	49	Lake Number:	1003300
Range:	23	Lake Name:	MINNEWAWA LAKE GD GD
Section:	21	Acres:	0.00
Green Acres:	No	School District:	4.00
Plat:	SHESHEBE POINT		
Brief Legal Description:	LOTS 121 & 122		

Tax Information

Class Code 1:	Non-Comm Seasonal Residential Recreational
Class Code 2:	Unclassified
Class Code 3:	Unclassified
Homestead:	Non Homestead
Assessment Year:	2024

*OMW - 1224.7
1004R Flood 1225.4*

Estimated Land Value:	\$252,000.00
Estimated Building Value:	\$121,900.00
Estimated Total Value:	\$373,900.00
Prior Year Total Taxable Value:	\$285,600.00
Current Year Net Tax (Specials Not Included):	\$1,707.00
Total Special Assessments:	\$65.00
**Current Year Balance Not Including Penalty:	\$886.00
Delinquent Taxes:	No

* For more information on delinquent taxes, please call the Aitkin County Treasurer's Office at 218-927-7325.

** Balance Due on a parcel does not include late payment penalties.

Copy

Sheet B.

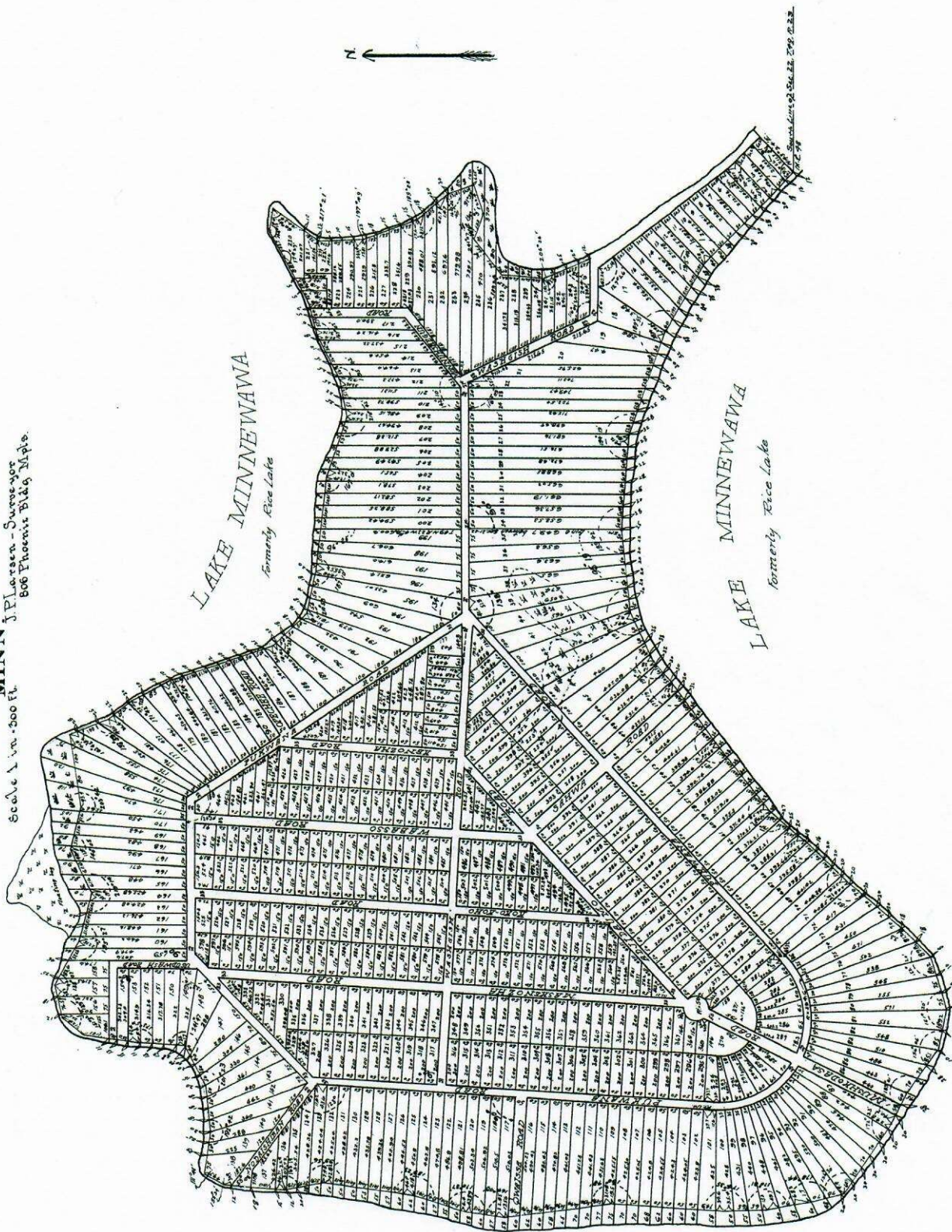
SHE SHEBE POINT

AITKIN COUNTY

MINN.

J.P. Larsen - Surveyor
806 Phoenix Bldg. N. Pk.

Scale 1 in. = 500 ft.



HOLDING TANK PUMPING SERVICE AGREEMENT PID# 29-1-155000

Permit# _____ Address 48471 197th Ave. McGregor MN 55760

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

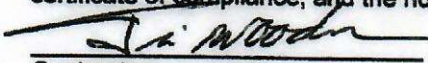
2. **FREQUENCY OF PUMPING.** Homeowner agrees that he/she shall not allow the holding tank to overflow or discharge in any manner. Contractor and Homeowner agree that the holding tank shall be pumped in accordance with the following:

- 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 6/27/2024

Date _____

Timber Lakes Septic Service (218) 927-6175

Derek Nelson

1037 1st St. NW Aitkin MN 56431

507-402-6959

P:\PZSHARE\Forms\Pumping Agreement.DOC\Pumping Agreement

Timber Lake Septic Service (218) 927-6175

933 Trellis St.

Jordan MN 55352