

AGENDA

THE **BOARD OF ADJUSTMENT** WILL ASSEMBLE FOR A HEARING OF APPEALS FROM THE AITKIN COUNTY ZONING ORDINANCE ON January 3, 2024 **AT 4:00 P.M.** IN THE **AITKIN COUNTY GOVERNMENT CENTER BOARD ROOM, 307 SECOND STREET NW, AITKIN, MN 56431**. THE FOLLOWING APPLICATIONS WILL BE REVIEWED.

1. Call the meeting to order.
2. Roll call.
3. Approve the agenda for the January 3, 2024 Board of Adjustment meeting.
4. Election of officers for the 2024 Board of Adjustment
 - Election of Chairperson
 - Election of Vice Chair
 - Election of Secretary
 - Appointment of BOA member to the Planning Commission

Old Business:

5. SUSAN WARD, 14232 TAMARACK ST NW, ANDOVER, MN 55304, is requesting a variance from the required 75 foot ordinary high water level setback on a general development lake (Minnewawa) to a setback distance of 70 feet to construct a 1344 square foot residence, in an area zoned shoreland. W 100 FT OF LOT 3 LESS S1410 IN C. T. #1088, Section Twenty-eight (28), Township Forty-nine (49), Range Twenty-three (23), Aitkin County, MN.

APP-2023-000499

New Business:

6. RICHARD MATTSON, 52805 LOON AVE, MCGREGOR, MN 55760, is requesting a variance from the required 15 foot property line setback to a setback distance of 10 feet for a mound septic system, in an area zoned shoreland. LOT 35 BIG SANDY LAKE HIGHLANDS FIFTH ADDITION. Section Thirty-four (34), Township Fifty (50), Range Twenty-three (23), Aitkin County, MN.

APP-2023-001336

7. Approval of minutes, December 6, 2023.
8. Adjourn.

AITKIN COUNTY ZONING

Property Location

Property:	Property Location			Legal Description			Property Attributes		Owner Information	Tax Payer Information
	Parcel Number	Property Address	Township or City Name	Legal Description	Plat Name	Section-Township-Range	Lake Class	Lake Name	Owner Name(s)	Taxpayer Name(s)
	32-1-061900	52805 Loon Ave MCGREGOR, MN 55760	TURNER TWP	LOT 35	BIG SANDY LAKE HIGHLANDS FIFTH ADDITION	S:34 T:50 R:23	GD	BIG SANDY LAKE	MATTSON, RICHARD M	MATTSON, RICHARD M
Driving directions to the proposed project from Aitkin:	Take Lake Ave South off Hwy 65 to Loon Ave. Turn left going approximately 1 Mile to property on the left.									
Is the above parcel located in the Shoreland Zoning District?	<u>Yes</u>									

Detailed Narrative

Enter a Detailed Narrative (If you have a prepared narrative please state "See attached" and attach the document below):	Variance for septic absorption area to be 10 feet from West Property Line to allow room for a driveway on this 50 ft. lot. Have spoken with the neighbor and he is OK with this.
Provide the Ordinance(s) and the Section(s) of the Ordinance(s) from which you are requesting a variance:	lot line setback
Are you requesting a variance to a road right-of-way setback in one of these Townships? Fleming, Glen, Lakeside, Pliny, Shamrock, Wagner	<u>No</u>

Supplemental Data

Attach completed form here:	File 1:  supplemental-data.pdf
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A Scaled Drawing or Survey

Scaled Drawing or Survey Checklist:	<p><u>Location and dimensions for all lot lines.</u></p> <p><u>Location and dimensions of all existing and proposed structures/additions.</u></p> <p><u>Location and depth of all existing and proposed wells within 100 feet of the property.</u></p> <p><u>Location and dimensions of all existing and proposed septic system components (septic tank, septic drainfield).</u></p> <p><u>Location and dimensions of all existing and proposed driveways, road right-of-ways, and easements.</u></p> <p><u>If topography is unusual, show elevations and location of bluffs, steep slopes, wetlands, etc.</u></p> <p><u>Indicate all setback distances for items listed above: ordinary high water level of lakes or rivers, lot lines, road right-of-ways, etc.</u></p>
Attach a Scaled Drawing or Survey:	<div style="border: 1px dashed black; padding: 5px;"> <p>File 1: 2577_001.pdf</p> </div>

Side Profile Sketch of the Structure

Attach a side profile sketch of your proposed structure or addition here (if applicable):	<div style="border: 1px dashed black; padding: 5px;"> <p>File 1: 2577_001.pdf</p> </div>
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Certificate of Septic Compliance

<p>Please attach a copy of one of the following:</p> <ul style="list-style-type: none"> - A current compliance inspection on the existing septic system. - A design for a new/replacement septic system. 	<div style="border: 1px dashed black; padding: 5px;"> <p>File 1: 23-209B_Wendy_Gamache_Type_III_Septic_Design_Aitkin_Co..pdf</p> <p>File 2: 23-209_Wendy_Gamache_Aitkin_Co._SSTS_Management_Plan.pdf</p> <p>File 3: 23-209_Wendy_Gamache_Operating_Permit_Application_Aitkin_Co..pdf</p> </div>
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Shoreland Performance Worksheet

Complete the Shoreland Performance Worksheet and attach here:

File 1: [shoreland-performance.pdf](#)

Standard Erosion Control Plan

Attach the completed Standard Erosion Control Plan here:

File 1: [2577_001.pdf](#)

Property Deed

Attach the property deed(s):

File 1: [AITKIN_COUNTY_-_REC-REAL_EST_-_4440405136.pdf](#)

Terms**General Terms**

The landowner or authorized agent hereby certifies that to the best of their knowledge the application and supporting documents are a factual representation of the proposed project. The landowner or authorized agent agrees that, in making application, the landowner grants permission to Aitkin County, at reasonable times, to enter the property to determine compliance of the application with applicable Local, County or State Ordinances or Statutes. It is the applicant's responsibility to contact other Local, County or State agencies to ensure the applicant has complied with all relevant Local, County or State Ordinances or Statutes.

Submittal of the above materials does not always constitute a complete application. Other information may be necessary to complete the application based on the type of request and onsite inspection.

I acknowledge that by submitting this application, the application and its attachments are public information.

Invoice #59083 (12/07/2023) Expected Payment Method: Pay Online - Card or ECheck

Charge	Cost	Quantity	Total
Recording Fee added 12/07/2023 10:09 AM \$46 Flat Fee	\$46.00	x 1	\$46.00
Variance added 12/07/2023 10:09 AM \$650 Flat Fee	\$650.00	x 1	\$650.00
Grand Total			
			Total
			\$696.00
			Payment 12/07/2023
			\$696.00
			Due
			\$0.00

Results ([Go to top](#))
 Signature accepted
 Failed to send [Variance Ready for Action](#) notification to:

Approvals

Approval	Signature
Applicant	Wendy Gamache - 12/07/2023 10:30 AM 7fccad07f4da13ef4109b71ed87f7ab0 1af8bcca48295c43ea91ca984e8b3e77
#1 Admin	Kim Burton - 12/11/2023 9:22 AM d2d06219ea5c8b951218d057365992a0 5c5b4e613a635e97a03f8d7b66dc9d10
#2 Board of Adjustment	

Public Notes

Text:	<div style="border: 1px solid black; height: 300px;"></div>
File(s):	<div style="border: 1px dashed black; height: 30px;"></div>

Admin Checklist

This review has been started by:	Kim Burton ▼
Zoning District of project location:	Shoreland ▼
Project located in the floodplain?	No ▼
Is the parcel a Lot of Record before 1-21-92 or have alternate sites been identified?	Yes ▼
Is this an after-the-fact application?	No ▼

Numbers

	Current Number	Next from Sequence
UID #	209414	<i>not applicable</i>
App. #	<input type="text" value="App-2023-001336"/>	<input type="button" value="««"/> App-2023-001341
Permit #	<input type="text"/>	<input type="button" value="««"/> 2023-1194

Print View

PART I: SUPPLEMENTAL DATA TO VARIANCE APPLICATION

Aitkin County Environmental Services
307 Second St. NW, Room 219, Aitkin, MN 56431
Phone: 218.927.7342 Fax: 218.927.4372
www.co.aitkin.mn.us

Note: Place an “X” by each item below that applies to your variance request. Then, fill out **only** the applicable following section(s) that apply, as directed. **If a section does not apply to your request, leave it blank.**

What is the reason(s) for applying for the variance? Place an “X” by each applicable item.

- Setback issues for a proposed new structure: **Complete Section 1**
- Setback issues for an alteration to an existing nonconforming structure: **Complete Section 2**
- Setback issues for a septic system: **Complete Section 3**
- Land alteration: **Complete Section 4**
- Creating a lot not in conformance with the minimum Ordinance standards: **Complete Section 5**
- Other: attach separate sheet explaining variance request

Section 1 – New Structure(s)

Check all that apply and fill in requested information:

- | | |
|--|--|
| <input type="checkbox"/> Basement | <input type="checkbox"/> One Story Level |
| <input type="checkbox"/> Crawlspace | <input type="checkbox"/> Story-and-a-Half Level |
| <input type="checkbox"/> Walk-out Basement | <input type="checkbox"/> 2 nd Story Level |

Proposed # of Bedrooms _____ Proposed Structure Height _____ ft.

Existing Total Building Coverage _____% Proposed Total Building Coverage _____%

Existing Total Impervious Surface Coverage _____% Proposed Total Impervious Surface Coverage _____%

“Building Coverage” means the ground surface covered by any building or appurtenance, including, but not limited to, decks, platforms, overhangs and projections therefrom, outdoor furnaces, fishhouses, sheds, carports, lean-to’s, or any similar building. –as per the Aitkin County Shoreland Management Ordinance.

“Impervious surface coverage” means any structure, facility or surface that sheds water including structures and facilities, sewage treatment system absorption areas (equal to 190 sq.ft./bedroom), retaining walls, and roadway surfaces and parking areas. Impervious surface does not include eaves of two feet and less. – Per the Aitkin Count Shoreland Management Ordinance.

Itemized square footage of proposed structure(s):

Check the item(s) from which you are requesting a variance and fill in the proposed setback distance. * Setbacks are measured to the nearest point on a structure which can be the eave overhang or an attached deck/platform.

Proposed Structure Type (indicate with or without living quarters) _____

_____ Ordinary High Water Level (OHWL)	Proposed Setback _____ ft.
_____ Property Line	Proposed Setback _____ ft.
_____ Road Right-of way ___ Twp ___ Co. ___ State	Proposed Setback _____ ft.
_____ Bluff	Proposed Setback _____ ft.
_____ Other: _____	Proposed Setback _____ ft.

Section 2 – Alteration(s) to Existing Nonconforming Structure(s)

Check all that apply and fill in requested information:

Existing Structure

Basement
 Crawlspace
 Walk-out Basement
 One Story Level
 Story-and-a-Half Level
 2nd Story Level

Existing Structure Height _____ ft.
 Existing # of Bedrooms _____
 Existing Building Coverage _____%
 Existing Total Impervious Surface Coverage _____%

Proposed Addition(s)

Basement
 Crawlspace
 Walk-out Basement
 One Story Level
 Story-and-a-Half Level
 2nd Story Level

Proposed Addition(s) Height _____ ft.
 Final # of bedrooms after remodel _____
 Proposed Building Coverage _____%
 Proposed Total Impervious Surface Coverage _____%

“Building Coverage” means the ground surface covered by any building or appurtenance, including, but not limited to, decks, platforms, overhangs and projections therefrom, outdoor furnaces, fishhouses, sheds, carports, lean-to’s, or any similar building. –as per the Aitkin County Shoreland Management Ordinance.

“Impervious surface coverage” means any structure, facility or surface that sheds water including structures and facilities, sewage treatment system absorption areas (equal to 190 sq.ft./bedroom), retaining walls, and roadway surfaces and parking areas. Impervious surface does not include eaves of two feet and less. – Per the Aitkin Count Shoreland Management Ordinance.

Itemized square footage of proposed structure(s):

Check the item(s) from which you are requesting a variance and fill in the proposed setback distance. * Setbacks are measured to the nearest point on a structure which can be the eave overhang or an attached deck/platform.

Proposed Alteration Type _____

<input type="checkbox"/> Ordinary High Water Level (OHWL)	Existing Setback _____ ft.	Proposed Setback _____ ft.
<input type="checkbox"/> Property Line	Existing Setback _____ ft.	Proposed Setback _____ ft.
<input type="checkbox"/> Road Right-of way __ Twp __ Co. __ State	Existing Setback _____ ft.	Proposed Setback _____ ft.
<input type="checkbox"/> Bluff	Existing Setback _____ ft.	Proposed Setback _____ ft.
<input type="checkbox"/> Other: _____	Existing Setback _____ ft.	Proposed Setback _____ ft.

Section 3 – Septic System

Check the item(s) from which you are requesting a variance and fill in the proposed setback distance.

<input type="checkbox"/> Ordinary High Water Level (OHWL)	Proposed Setback _____ ft.
<input checked="" type="checkbox"/> Property Line	Proposed Setback <u>10</u> ft.
<input type="checkbox"/> Road Right-of way __ Twp __ Co. __ State	Proposed Setback _____ ft.
<input type="checkbox"/> Bluff	Proposed Setback _____ ft.
<input type="checkbox"/> Other: _____	Proposed Setback _____ ft.

Section 4 – Land Alteration

What is your land alteration? Check all categories that apply and indicate the total amount of excavation or placement of fill.

<input type="checkbox"/> More than 10 cubic yards on steep slopes and shore and bluff impact zones.	Total Cubic Yds. _____
<input type="checkbox"/> Other: _____	Total Cubic Yds. _____

Section 5 – Creating Nonconforming Lot(s)

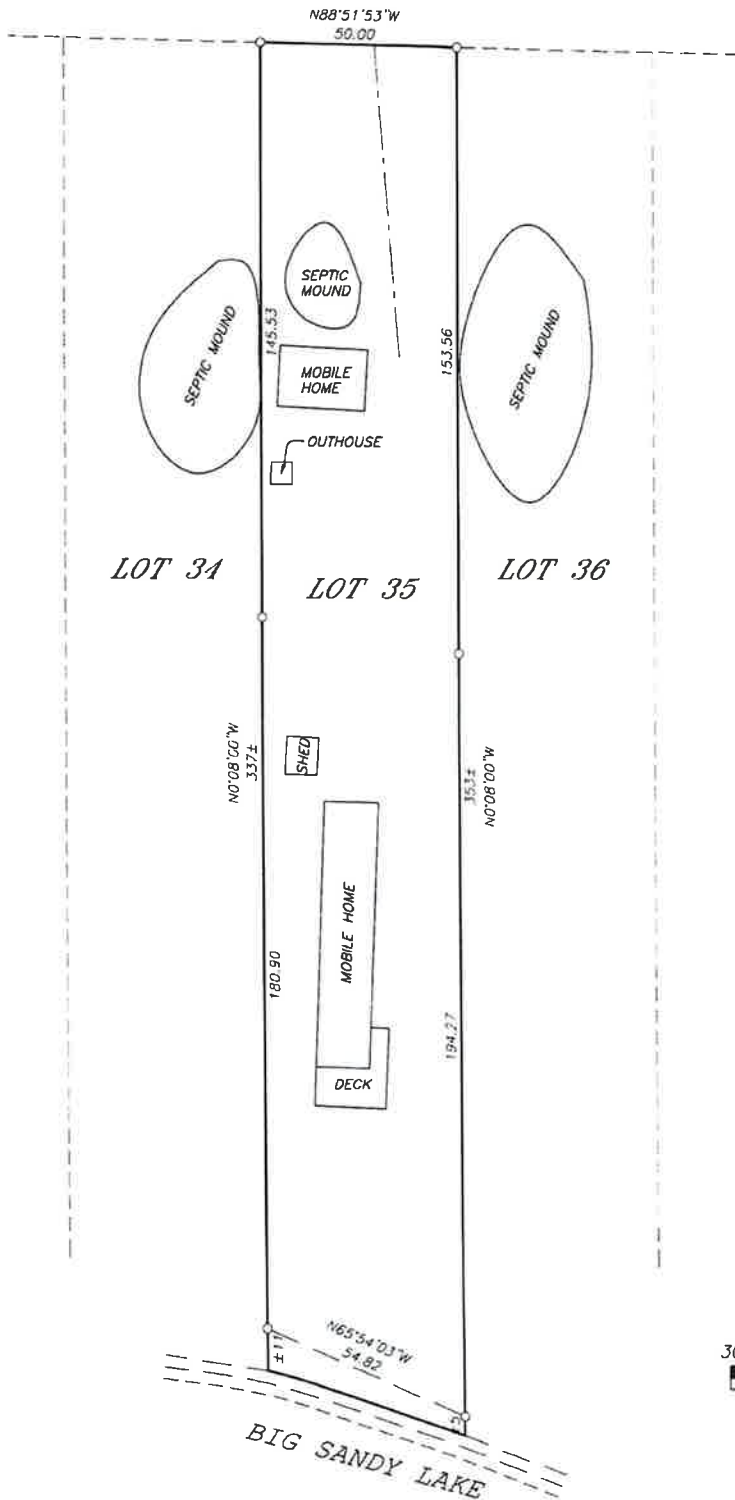
Check the item(s) from which you are requesting a variance and fill in the proposed dimensions.

<input type="checkbox"/> Property Width	Proposed Property Width _____
<input type="checkbox"/> Property Area	Proposed Property Area _____
<input type="checkbox"/> (2) Standard Septic Sites	
<input type="checkbox"/> Legal Access	

CERTIFICATE OF SURVEY

LOT 35,
BIG SANDY HIGHLANDS FIFTH ADDITION,
AITKIN COUNTY, MINNESOTA

LOON AVENUE



SCALE
1" = 30'



BEARINGS ARE BASED ON NAD83(2011)
AITKIN COUNTY COORDINATE SYSTEM

○ SET 1/2" IRON REBAR WITH RLS
CAP STAMPED "57070"



WENDY GAMACHE
52805 LOON AVE,
MCGREGOR, MN

JOB# 23401	DRAWN BY: TJB
FILENAME: 23401 WENDY GAMACHE	
REV#	DESCRIPTION DATE

I HEREBY CERTIFY THAT THIS SURVEY, PLAN OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.

PAUL J. KADELBACH (LIC. NO. 57070)

10/23/2023
DATE

Preliminary & Field Evaluation Form

Type III Mound

www.SepticResource.com vers 12.4

Owner Information			
Date	<u>11/29/2023</u>	Sec / Twp / Rng	<u>S-34, T-50, R-23</u>
Parcel ID	<u>32-1-061900</u>	LUG (county, city, township)	<u>Aitkin Co.</u>
Property Owner:	<u>Wendy Gamache</u>	Owners address (if different)	
Property Address:	<u>52805 Loon Ave. McGregor MN 55760</u>		<u>10 Farmstead Rd</u>
City / State / Zip:			<u>Esko MN 55733</u>

Flow Information and Waste Type / Strength			
Estimated Design flow	<u>300</u>	Anticipated Waste strength	<input type="checkbox"/> Hi Strength <input checked="" type="checkbox"/> Domestic
Comments: Type III Mound Type III Mound 8" to mottles & on Disturbed soils. Requires an Aitkin Co Operating Permit May require a variance for absorption width 10 ft from West property line. Both Neighbor's (East & West) mound rockbeds are Less than 15 ft to property line. Follow Aitkin County Operating permit requirements.		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 and Shallow wells	
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 type="checkbox"/> Yes	<input checked="" 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>New mound West berm will be right on the West property line</u> <u>West Neighbor's mound is to the East property line. (He is Ok with berm on line)</u> <u>May need a variance for Aborpsion width 10 ft from property line.(Code is 15 ft)</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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Original soils	<input type="checkbox"/> Yes <input checked="" 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>0.60</u>	Percolation rate (if applicable)	_____
Depth/elev to SHWT	<u>8"</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>(+ 36")</u>	Flood elevation (if applicable)	_____
Depth/elev to standing water (if applicable)	_____	Elevation of ordinary high water level (if applicable)	<u>1216.5</u>
Depth/elev to bedrock (if applicable)	_____	Floodplain designation and elev - 100 yr/10 yr (if applicable)	<u>1223.9</u>
Soil Survey information determined (see attachment)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated Mound Area Elevation 1242' from Aitkin Co. GIS Map	
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>Wendy Gamache</u>	Date <u>11/29/2023</u>
Property Address / PID: <u>52805 Loon Ave. McGregor MN 557</u>	

Soil Survey Information	
<input type="checkbox"/> refer to attached soil survey	
Parent mat'l's:	<input checked="" 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:	<u>504B</u> slope <u>0</u> % direction- <u> </u>

Soil Log #1							
		<input checked="" type="checkbox"/> Boring	<input type="checkbox"/> Pit	Elevation <u>96.8'</u>	Depth to SHWT <u>8"</u>		
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 5	Topsoil Loam	<35	10YR3/2		Loose	Loose	Granular
5 - 8	Silt Loam	<35	10YR 5/3		Friable	Loose	Blocky
8 - 12	Silt Loam	<35	10YR 5/3	7.5YR5/6	Friable	Loose	Blocky
Comments:							

52805 Loon Ave. McGregor MN 55760 **Soil Log #2**

<input checked="" type="checkbox"/> Boring <input type="checkbox"/> Pit Elevation <u>96.9'</u> Depth to SHWT <u>8"</u>							
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 5	Topsoil Loam	<35	10YR3/2		Loose	Loose	Granular
5 - 8	Silt Loam	<35	10YR 5/3		Friable	Loose	Blocky
8 - 12	Silt Loam	<35	10YR 5/3	7.5YR5/6	Friable	Loose	Blocky

52805 Loon Ave. McGregor MN 55760 **Soil Log #3**

<input checked="" type="checkbox"/> Boring <input type="checkbox"/> Pit Elevation <u>96.9'</u> Depth to SHWT <u>8"</u>							
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 5	Topsoil Loam	<35	10YR3/2		Loose	Loose	Granular
5 - 8	Silt Loam	<35	10YR 5/3		Friable	Loose	Blocky
8 - 12	Silt Loam	<35	10YR 5/3	7.5YR5/6	Friable	Loose	Blocky

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


 Designer Signature

Brummer Septic LLC.
 Company

L-1347
 License #

52805 Loon Ave. McGregor MN 55760		Soil Log #4					
		<input checked="" type="checkbox"/> Boring	<input type="checkbox"/> Pit	Elevation <u>96.9'</u>	Depth to SHWT <u>8"</u>		
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 5	Topsoil Loam	<35	10YR3/2		Loose	Loose	Granular
5 - 8	Silt Loam	<35	10YR 5/3		Friable	Loose	Blocky
8 - 12	Silt Loam	<35	10YR 5/3	7.5YR5/6	Friable	Loose	Blocky

52805 Loon Ave. McGregor MN 55760		Soil Log #5					
		<input type="checkbox"/> Boring	<input type="checkbox"/> Pit	Elevation _____	Depth to SHWT _____		
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive

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

Designer Signature 

Brummer Septic LLC.
Company

L-1347
License #

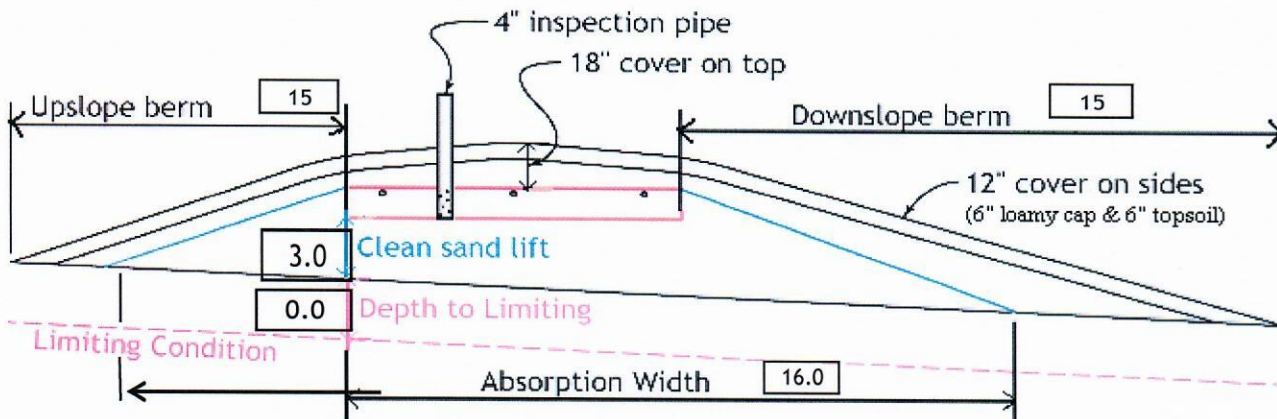
Mound Design - Aitkin county

Property Owner: Wendy Gamache Date: 11/29/2023
 Site Address: 52805 Loon Ave. McGregor MN 55760 PID: 32-1-061900
 Comments: Type III Mound (8" to mottles and on Disturbed soils).

instructions: = enter data = adjust if desired = computer calculated - DO NOT CHANGE!

- 1) 2 bedroom Type III Residential System
- 2) 300 GPD design flow
- 3) No Garbage disposal or pumped to septic Install 1650 Jacobson 2/Compartment Septic/Pump Tank.
- 4) 1000 Gal Septic tank (code minimum) 1120 Gal Septic tank (design size / LUG req'd)
 Tank options: none
- 5) 1.2 GPD/ft² mound sand loading rate contour loading rate of 12 req's a min 25 ft. long rockbed
- 6) 6.0 ft rockbed width 42.0 ft rockbed length
- 7) 3.0 ft lateral spacing 3.0 ft perforation spacing (maximum of 3 for both)
 end feed manifold connection
- 8) 2 laterals 40.0 feet long 14.0 perfs / lateral 28 perfs total
 (1/2 a perf means the first perf starts at the middle feed manifold)
- 9) 1/4" inch perfs at 1 feet residual head gives 0.74 gpm flow rate per perforation
 for this perf size & spacing, & pipe size on line 12, max perfs/lateral = 16, line #8 must be less --> OK
- 10) 6.0 doses per day (4 minimum)
- 11) 50 gallons per dose (treatment volume) 1.50 5x
- 12) 1.50 inch diameter laterals must be used to meet "4x pipe volume" requirement 2.00 3x
- 13) 30 feet of 2.0 inch supply line leads to 5 gallons of drainback volume
 (Tip: "top feed" manifold to control the drainback)
- 14) 55 gallons TOTAL pump out volume (treatment + drainback)
- 15) 12 feet vertical lift from pump to mound laterals, leads to a:
- 16) 21 GPM @ 18 feet of head, Pump requirement (note: >50gpm may require an extra 3-6' of head)
- 17) 500 gal Dose tank (code minimum) 533 gal Dose tank (design size / LUG req'd) at 12.69 gpi
 leads to a
- 18) 4.3 inch swing on Demand float, or timed dosing of 2.6 min ON (confirm pump rate with drawdown
 (this delivers Average flow, =70% of Peak design flow) 6 hrs OFF test and adjust as necessary)
- 19) 12 inches from bottom of tank to "Pump OFF" float
- 20) 16 inches from bottom of tank to "Pump ON" float, or 12 inches to "Timer ON" float if time dosed
- 21) 19 inches from bottom of tank to "Hi Level" float, or 29 inches to "Hi Level" float if time dosed
- 22) 292 gallons reserve capacity (after High Level Alarm is activated)

- 23) 0.60 gpd/ft² Absorption area Soil Loading Rate, which gives a mound ratio of 2 (minimum)
 (this must match the soil boring log) desired mound ratio 2.0
- 24) 0 percent site slope (0-20% range) 0 (% downslope site slope, if different than upslope)
- 25) 0 inches, or 0.0 ft. to Redox or other limiting condition (need at least 12" to be a Type I)
 Treatment zone contains 0 inches of 0% soil credit, and 0 inches of 50% soil credit. Giving a:
- 26) 36 inch, or 3.0 ft. Sand Lift Mound **CRITICAL FOR FUTURE CERTIFICATIONS!!!**
- 27) 12.0 ft. base absorption width (with sand beyond rockbed as follows):
 16.0 greater of: absorption width OR sand slope
- 28) 3.0 ft. upslope and sideslope sand upslope 5.0
 3.0 ft. Downslope sand down slope 5.0
- Individual slope ratios give BERM widths (topsoil beyond rockbed) of:
- 29) 3:1 upslope ratio 15 ft. upslope berm
- 30) 3:1 sideslope 15 ft. sideslope berms
- 31) 3:1 downslope 15 ft. downslope berm
- 32) Overall Dimensions: 6.0 ft. wide by 42.0 ft. long Rock bed
 36 ft. wide by 72 ft. long Mound footprint



Note:
 For 0 to 1% slopes, *Absorption Width* is measured from the *Bed* equally in both directions.
 For slopes >1%, *Absorption Width* is measured downhill from the upslope edge of the *Bed*.

- 33) Rock Bed:
 6.0 ft. by 42.0 ft. by 9 inches under pipe, plus 20% gives 12 yd³ or *1.4= 17 ton
- 34) Mound Sand: (note: volume is based on 3:1/4:1 slope from top of rockbed, Exchange sand for loamy cap if desired)
 58.7 up + 58.7 downslope + 10.7 ends + 28.0 under rock = 187 yd³ or *1.4= 262 ton
 plus 20%
- 35) Loamy Cap:
 32 ft. by 68 ft. 6" deep, plus 20% gives 49 yd³ or *1.4= 69 ton
- 36) Topsoil:
 36 ft. by 72 ft. 6" deep, plus 20% gives 58 yd³ or *1.4= 81 ton

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

[Signature]
 Designer Signature

Brummer Septic LLC.
 Company

L-1347
 License#

11/29/2023
 Date

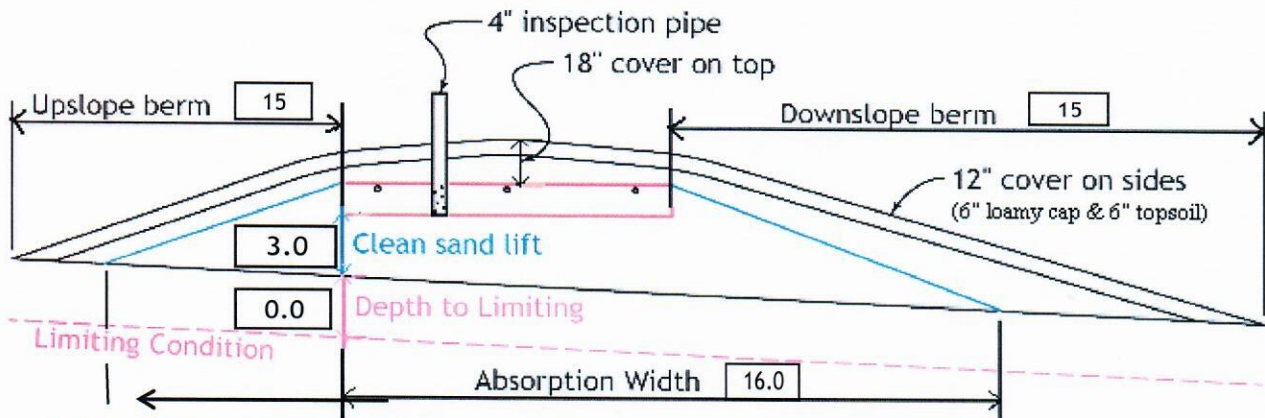
Installer Summary

- 1120 gallon Septic tank (minimum) Tank options: none
- 533 gallon Dose tank (minimum) Install 1650 Jacobson 2/Compartment Septic/Pump Tank.
at 12.69 gpi
- 21 GPM @ 18 ft. of head, Pump required
- 4.3 inch swing on Demand float which translates to roughly 3.2 inches of float tether length
if time dosing is required --> 2.6 minutes ON time & 6 hours OFF time
- 16 inches from bottom of tank to "pump ON" float, or 12 inches to "timer ON" float
- 19 inches from bottom of tank to "Hi Level Alarm" or 29 inches to "Hi level alarm" if time dosed
- 30 ft. of 2.0 inch supply line with end feed manifold connection
(Tip: "top feed" manifold to control drainback)
- 36 inch, or 3.0 ft. Sand Lift Mound
- 6.0 ft. wide by 42.0 ft. long Rock bed
- 2 laterals 1.50 inch diameter 40.0 ft. long 3.0 ft. lateral spacing
- 1/4" inch perfs 3.0 ft. perforation spacing
- No Effluent filter & alarm
- 2 clean out & valve box assemblies

- 16.0 ft. Total sand ABSORPTION width (minimum)
- 5.0 ft. upslope and sideslope (sand beyond rockbed, minimum)
- 5.0 ft. Downslope (sand beyond rockbed, minimum)

Specific slope ratios give BERM widths (topsoil beyond rockbed) of:

3:1 upslope ratio	15 ft. upslope berm
3:1 sideslope	15 ft. sideslope berms
3:1 downslope	15 ft. downslope berm



Note:

For 0 to 1% slopes, *Absorption Width* is measured from the *Bed* equally in both directions.
For slopes >1%, *Absorption Width* is measured downhill from the upslope edge of the *Bed*.

Rock Bed:	12.0 yd ³ or *1.4=	17 ton	9 inches under pipe
Mound Sand:	187 yd ³ or *1.4=	262 ton	
Loamy Cap:	49 yd ³ or *1.4=	69 ton	6" deep
Topsoil:	58 yd ³ or *1.4=	81 ton	6" deep

INSPECTOR CHECKLIST - mound

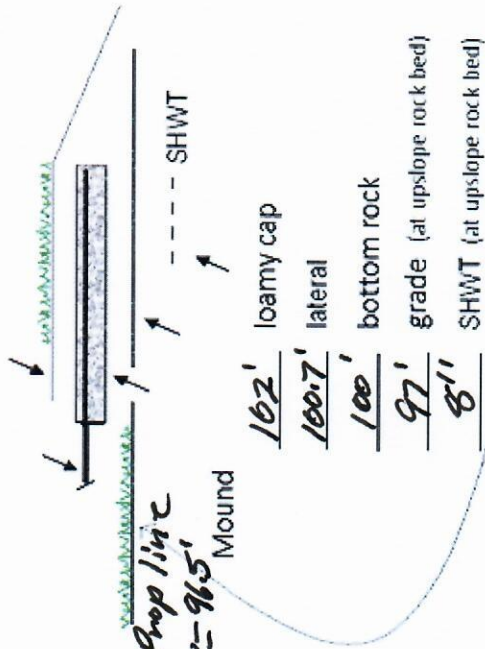
52805 Loon Ave. McGregor MN 55760

- WELL setbacks: 20' to pressure tested sewer line (5 psi for 15 min)
50' to everything 100' to dispersal area with shallow well
- 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, 20' for dispersal area.
- WATER LINE under pressure se 10' to bed, tank & sewer line. (else sewer line > 12" below, else ok w/pvc)
- Sewer line & baffle connection (no 90's, 3' between 45's, slope min 1" in 8', max 2" in 8')
(no depth req's, clean out every 100', Sch 40 pipe)
- Septic tank and risers (water tight, insulated, proper depth, existing verified by pumping)
mfg _____ 1120 gallons none _____
- Riser over outlet, riser over inlet or center, and 6"+ inspection pipe over any remaining baffles.
No _____ effluent filter & alarm
- Dose tank risers and piping (water tight, insulated, proper depth, drainback)
mfg _____ 533 gallons
- dose pump _____ 21 gpm 18 head VERIFY PUMP CURVE 2.6 min ON 6 hr OFF
- float setting drop 4.3 inches at 12.7 gpi "DESIGNED" 3.2 inches approx float tether length
55.0 gal dose divided by _____ gpi "INSTALLED" = _____ inches float drop (field corrected)
LABEL pump requirements and drawdown on riser or panel
- Cam lock reachable from grade - 30" max. J-hook weep hole. Supply line access (no hard 90's)
2.0 inch supply pipe: Sch40, sloped 1/8"+, supported by 4" sch40 sleeve or compacted, and buried 6"+.
splice box / control panel / electrical connections
flow measurement: CT, ETM, time dosed, home water meter
mound absorption area rough up
mound rock dimensions 6.0 X 42.0
Sand lift depth 36 inches. (Jar test : 2" sand leaves < 1/8" silt after 30 min)
- Absorption Sand beyond rock 5.0 upslope 5.0 downslope
- Bermed topsoil beyond rockbed 15 upslope 15 sideslope 15 downslope
- cover depth of 12-18"+ VERIFY
2 laterals (1-2' from edge of rock)
1.50 inch pipe size (Sch40 pipe & fittings)
3.0 ft lateral spacing
- 1/4" inch perforations
3.0 ft perforation spacing
- Air inlet at end of laterals, and at top feed manifold if necessary. VERIFY
clean outs (no hard 90's)
- 4" inspection pipe to bottom of rock, anchored VERIFY
- Abandon existing system - if necessary Re-use existing tank certification
monitoring plan and type _____
well abandonment form - if necessary

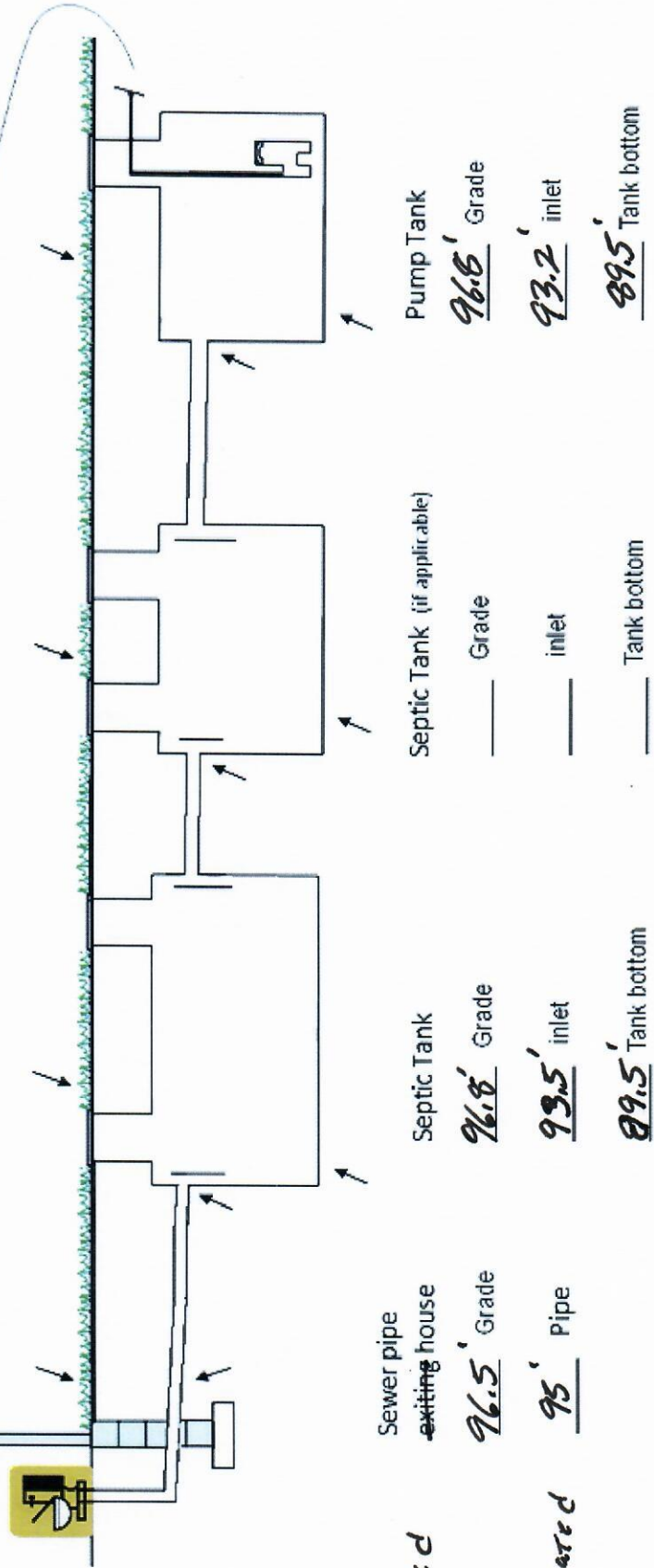
System Elevations

Elv = 100' benchmark Nail on power pole Near West Prop line
 Top of Survey pin on East Prop line middle of lot Elv = 96.5'

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



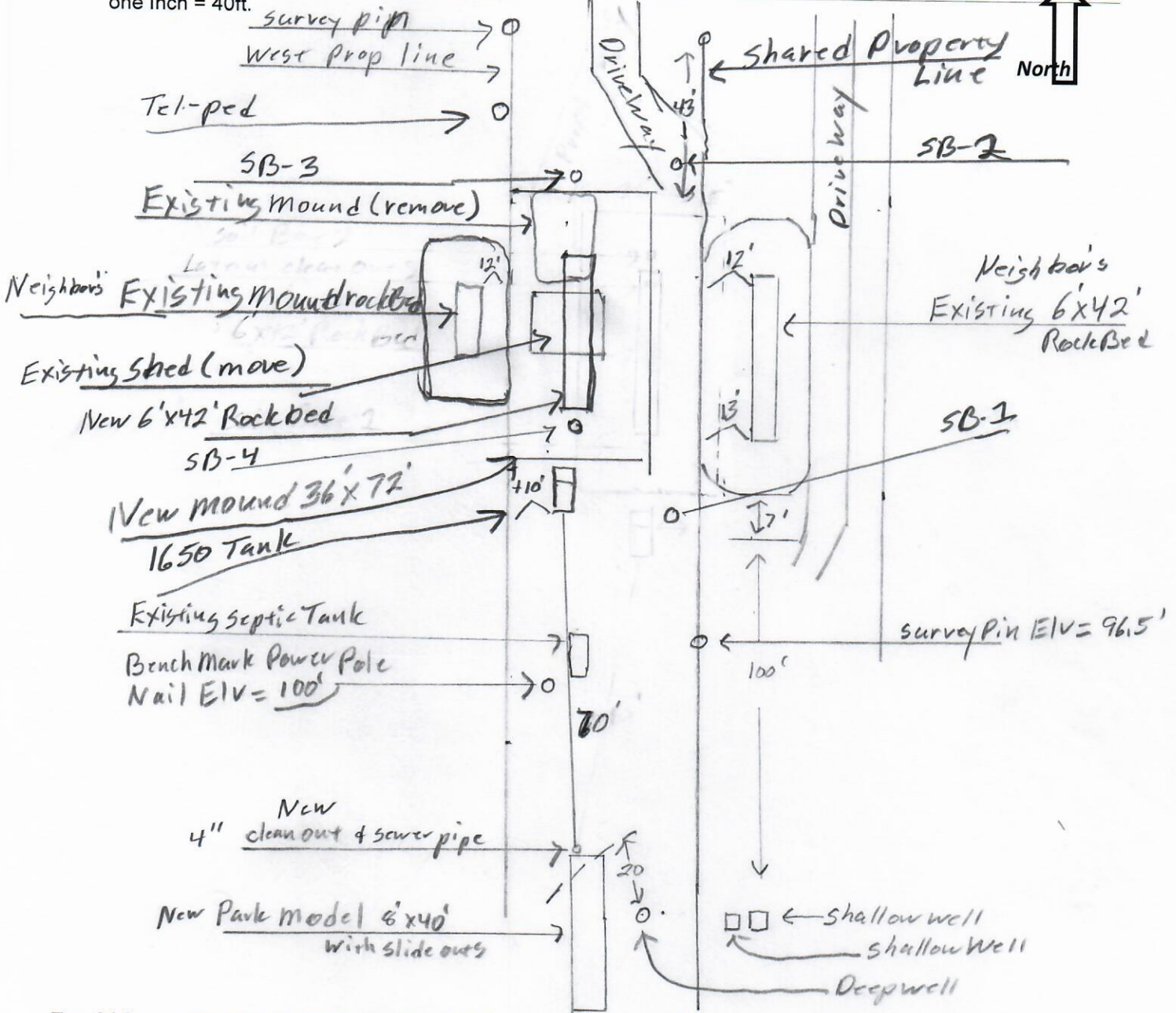
- 102' loamy cap
- 100.7' lateral
- 100' bottom rock
- 97' grade (at upslope rock bed)
- 8" SHWT (at upslope rock bed)



Proposed	Septic Tank	Septic Tank (if applicable)	Pump Tank
Sewer pipe exiting house	Septic Tank	Septic Tank (if applicable)	Pump Tank
96.5' Grade	96.8' Grade	Grade	96.6' Grade
Estimated 95' Pipe	93.5' inlet	inlet	93.2' inlet
	89.5' Tank bottom	Tank bottom	89.5' Tank bottom

{ Design Drawing }

Property Owner: Wendy Gamache Date: _____ Designer's Initials: JB
 Parcel ID. Number: 32-1-061900 Address: 52805 Loon Ave. McGregor MN 55760
 one Inch = 40ft.



Top Of Survey Pin East Property Line Elv. = 96.5'

Estimated Big Sandy Lake Elv. = 76'

	Surface/ SHWT	Nail on Power pole = Bench Mark 100'		Existing Grade	
Soil Bore 1	96.8' / 8"	Bench Mark	100'		Upslope Edge of Rockbed Elv. = 97'
Soil Bore 2	96.9' / 8"	Ground Elv. BM	96.4'		Bottom of Rockbed Elv. = 100'
Soil Bore 3	96.9' / 8"	Ground Elv. Tank	96.8'	New	Top of Washed Sand Elv. = 100'
	Ground at	Proposed house	96.5'		Estimated Sewer pipe at Cabin Elv. = 95'

Please show all that apply (Existing)

Please Draw to Scale with North to Top or Left Side of Page:

Wells within 100ft. Of Drain field.

Disturbed/Compacted Areas

Access Route for Tank Maintenance

Water lines within 10 ft. of Drain field.

Component Location

Property Lines

Drain field Areas:

OHW ordinary high water

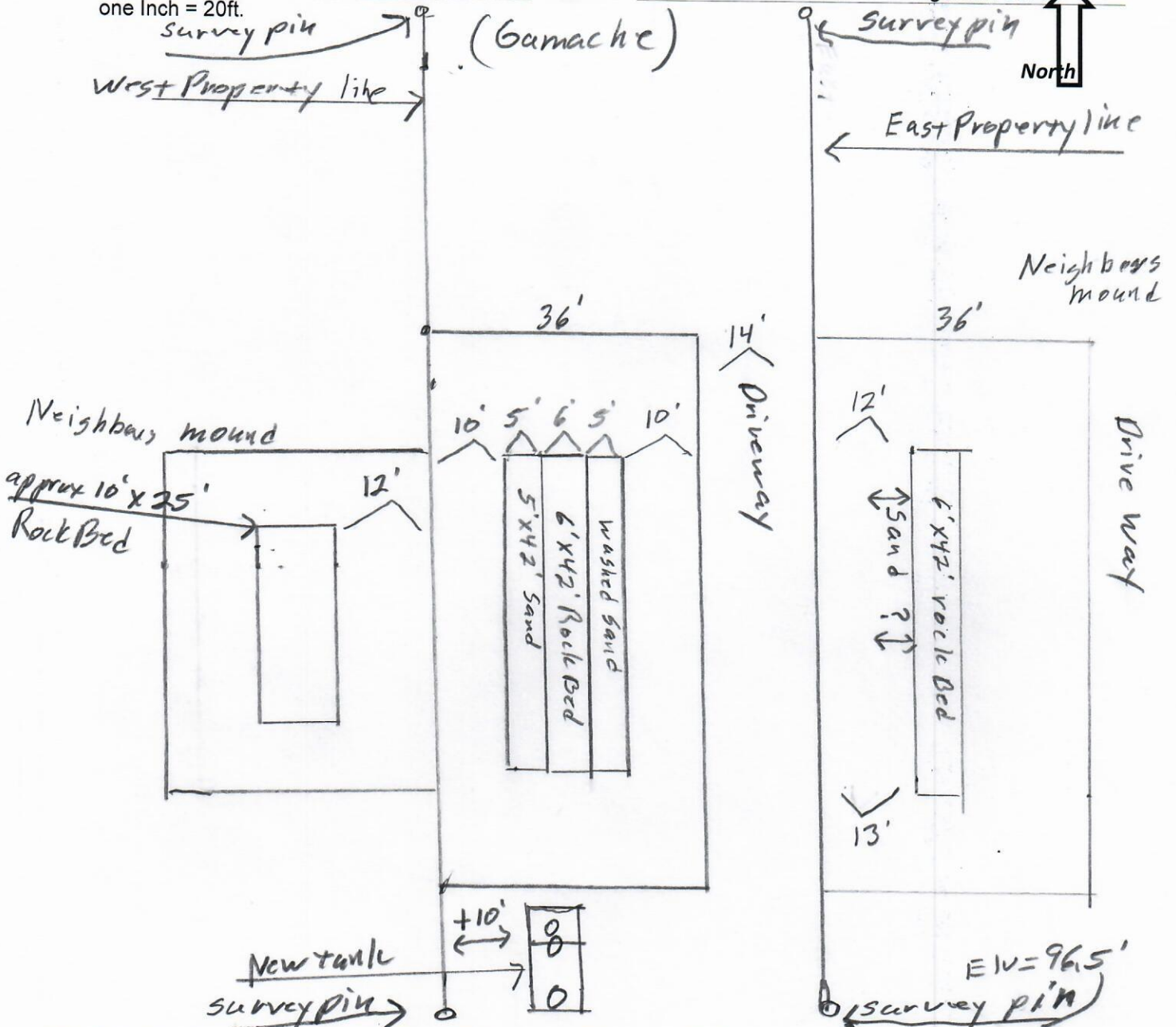
Structures

Lot Easements

Setbacks

{ Design Drawing }

Property Owner: Wendy Gamache Date: 10/12/12 Designer's Initials: JB
 Parcel ID. Number: 32-1-061900 Address: 52805 Loon Ave. McGregor MN 55760
 one Inch = 20ft.



Top Of Survey Pin East Property Line Elv. = 96.5'

Estimated Big Sandy Lake Elv. = 76'

	Surface/ SHWT	Nail on Power pole = Bench Mark 100'		Existing Grade	
Soil Bore 1	96.8' / 8"	Bench Mark	100'	Upslope Edge of Rockbed Elv. = 97'	
Soil Bore 2	96.9' / 8"	Ground Elv. BM	96.4'	Bottom of Rockbed Elv. = 100'	
SB 3&4	96.9/8"	Ground Elv. Tank	96.8'	New	Top of Washed Sand Elv. = 100'
		Ground at Proposed house	96.5'		Estimated Sewer pipe at Cabin Elv. = 95'

Please show all that apply (Existing)

- Wells within 100ft. Of Drain field.
- Water lines within 10 ft. of Drain field.
- Drain field Areas:

Please Draw to Scale with North to Top or Left Side of Page:

- | | |
|---------------------------|-----------------------------------|
| Disturbed/Compacted Areas | Access Route for Tank Maintenance |
| Component Location | Property Lines |
| OHW ordinary high water | Structures |
| Lot Easements | Setbacks |

Mound Design Notes - Aitkin county

Property Owner: Wendy Gamache Date: 11/29/23

Site Address: 52805 Loon Ave. McGregor MN 55760 PID: 32-1-061900

Comments: See Notes on shared property line easement reasons. (next Page)

- 1 This is a type III mound , (Soil Separation 8") sized for a 2 bedroom system.
Constructed on same site as existing mound and old shed. Disturbed soils.
- 2 There is an existing deep well near trailer house, Neighbors 2 Shallow wells are near same deep well.
- 3 Existing tank to be pumped collapsed, filled, or removed. Existing Mound will be removed to good original soils.
Existing Shed / cabin to be moved.
- 4 The Proposed house (Park Model) will be gravity flow from NW corner of house, install clean-out near house.
The new sewer pipe once outside of the park model foot print must be 20 ft from any well.
Owner will have to locate Park model to insure that sewer pipe is 20 ft away from well. Air test new sewer pipe.
- 5 Lot is Flat, install 1650 Jacobson compartment tank for gravity flow from house.
Install tank low enough for drainback from mound to pump tank.
- 6 The berm slopes are at 3:1, lot is only 50 ft wide. West mound berm will be on the West property line.
See notes on Aitkin Co. Possible variance on this mound.
- 7 Elevation contour of rock bed upslope edge is 97' . North berm will be approx. 43 ft. from property line/ RW .
The area size of the rock bed is 6' x 42' . Absorption area is 42' x 16'.
Sand absorption area is 5 ft. up slope + 6 ft. rockbed + 5 ft. downslope = 16ft. wide sand base.
Berms are 15ft. Upslope, 15ft. Down slope, 6ft. Rock bed = approx. 36ft. Wide.
Overall mound size is approx. 36' wide x 72' long and approx. 5' high. End berms are 15ft. Wide.
- 8 The bench mark is the nail on the Power Pole near West Property line BM = Elv. 100'.
Installer to double check bench mark. Installer should confirm bench mark and sand height Elv. with inspector.
Installer should record bench mark Elv. and sand height on installation inspection form.
The top of the sand and bottom of rock bed is Elv. 100'.
- 9 It is important that the soils do not get compacted, and that clean Washed sand is used.
If old Mound / Shed area is compacted, remove (Subcut area and fill with washed sand).
- 10 The Jacobson 1650 tank will be gravity flow from dwelling. Install the pump for 6 demand doses per day. approx. 55 gallons per dose, 4.3 inches of tank level. Install alarm at 3 inches from pump on level.
Install all manholes, inspection pipes and clean-outs to grade or above. (Recommend min. 4" above grade)
Recommend Raising tank manholes at least 4" above finished grade. Shape tank area to shed surface water.
Install a 2" supply pipe from tank to end manifold in rock bed, install so pipe drains back to tank.
Install 1.5" laterals with 9" of rock under them. (Install Lateral clean-outs at far end of laterals. Recommended)
- 11 **Drill 1/4" perf holes spaced 3 ft. on center.**
Install 4" inspection pipe to bottom of rock bed, secure in rock bed and raise to above final grade.
- 12 Install Event counter on Effluent pump, calibrate pump and give gallons per event to Owner.
- 13 Designer does not guarantee or warranty any Type III systems.
Designed to Aitkin Co. and MPCA recommendations and requirements.


Designer Signature

Brummer Septic LLC.
Design Company

L-1347
License#

This System will require an Aitkin Co. Operator permit, annual inspection
Owner and installer are responsible for owner knowing how system is maintained.

Possible Variance Mound Design Notes - Aitkin county

Property Owner: Gamache & ~~RODRIQUES~~

Date: 11/29/23

Site Address: 52805 Loon Ave. McGregor MN 55760

PID: 32-1-061900 & 32-1-062000

Comments: **Shared property line Use And Reasons why**

- 1 Gamache has to install a new Type III mound 2 bedroom. The lot is 50 ft wide.
New mound design ^{has} ~~was~~ been design as narrow as possible
to allow for a driveway on east side of proposed mound
To fit on lot where existing mound is to be removed.
- 2 Gamache may / will need a variance for absorption width to West property line.
Gamache's proposed mound absorption area will be 10 ft from property line.
Aitkin Co, Code for absorption area setback to property line is 15 ft.
- 4 Both of the Neighbors (Nielsen on the West) (Rodriques on the East) have mounds.
Both of these mounds have rockbeds that are closer than 15 ft to their property line.
The designer could not tell how close the Sand (Absorption area) is to the property line.
But both are less that 15 ft.
- 5 Gamache's mound will be as high as Rodriques's mound, with approx. 14 ft between the berms for a driveway.
Rodriques's mound is on East property line.
- 6 Nielsen's mound is on the West property line.
Nielsen is OK with Gamache's mound right on the line.
- 7 The way all 3 of these mounds are/ were installed they should be able to be replaced with out damage to each other.

Designed to Aitkin Co. and MPCA recommendations and requirements.



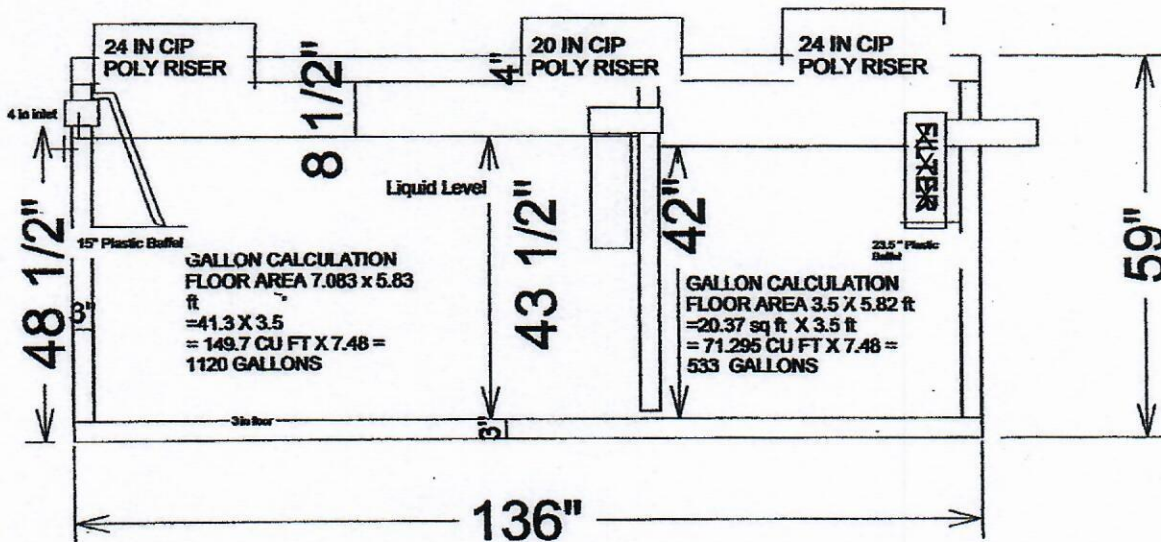
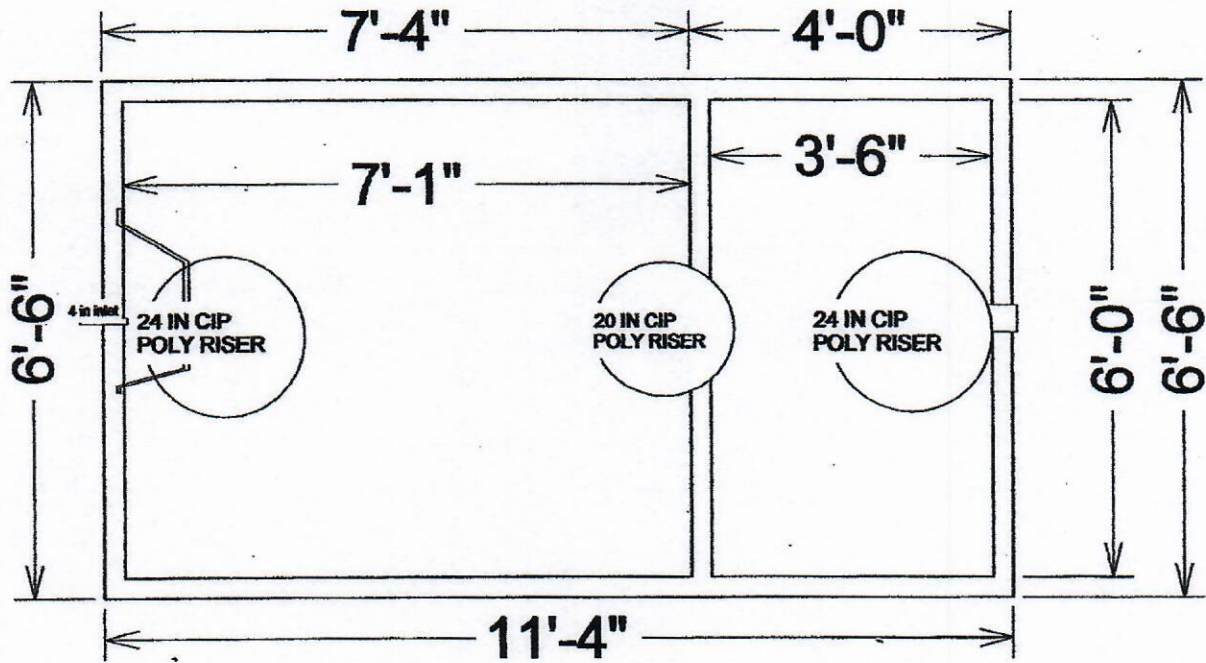
Designer Signature

Brummer Septic LLC.
Design Company

L-1347
License#

1650 Gallon 2 Compartment Septic Tank

TOP VIEW



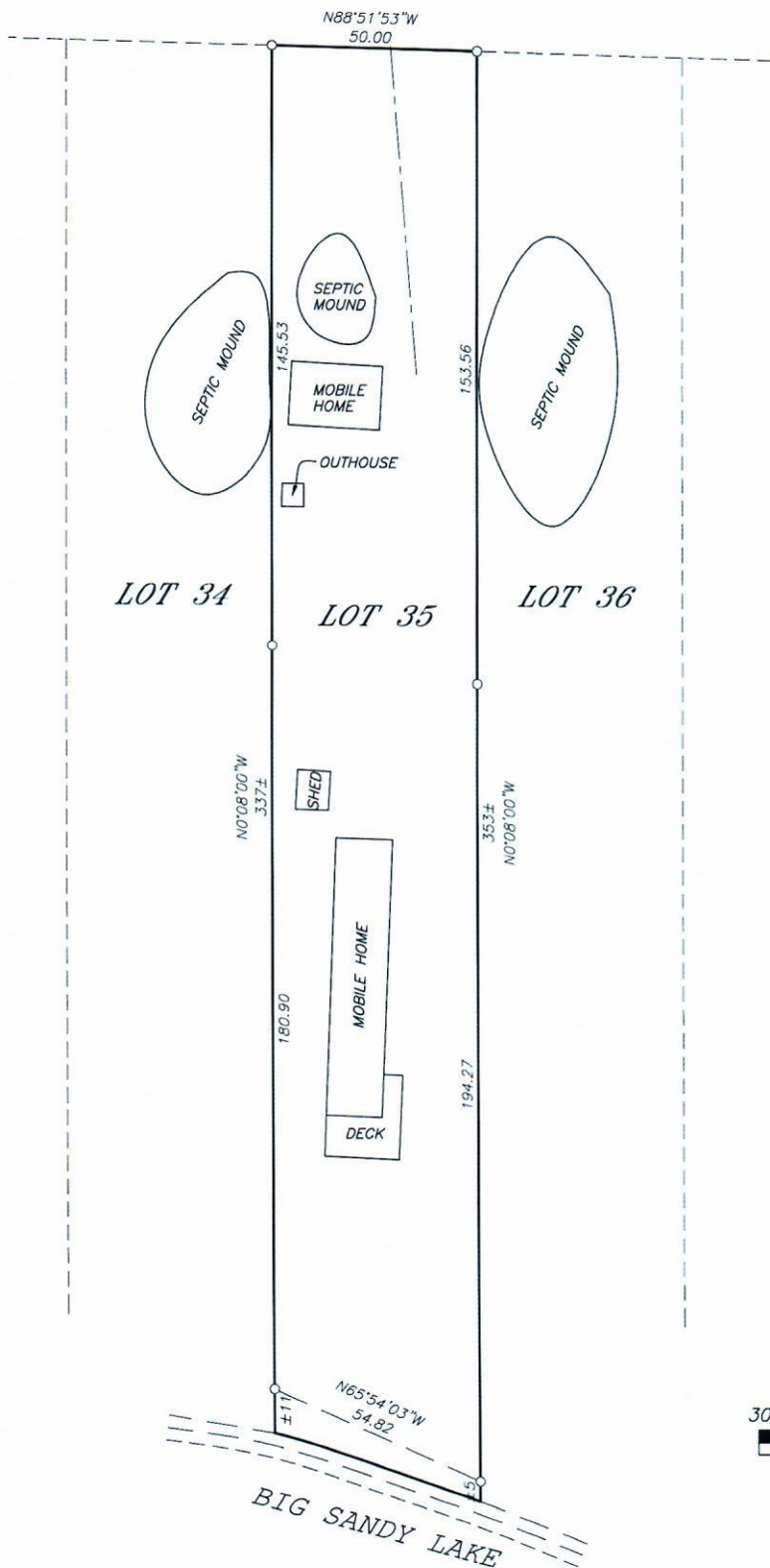
$533 / 42" = 12.69 \text{ GPI}$

SIDE VIEW

Drawings Owned BY Jacobson Precast, Inc.
36641 HWY 169, Aitkin, Mn 56431

CERTIFICATE OF SURVEY

LOT 35,
BIG SANDY HIGHLANDS FIFTH ADDITION,
AITKIN COUNTY, MINNESOTA



SCALE



BEARINGS ARE BASED ON NAD83(2011)
AITKIN COUNTY COORDINATE SYSTEM

- SET 1/2" IRON REBAR WITH RLS
CAP STAMPED "57070"

NORTHWESTERN
SURVEYING & ENGINEERING, INC.
P.O. Box 3067 • Bemidji, Minnesota • 56619

WENDY GAMACHE
52805 LOON AVE,
MCGREGOR, MN

JOB#:	23401	DRAWN BY:	TJB
FILENAME:	23401 WENDY GAMACHE		
REV#	DESCRIPTION	DATE	

I HEREBY CERTIFY THAT THIS SURVEY, PLAN OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.

KALEB J. KADELBACH (LIC. NO. 57070)

10/23/2023
DATE



Detailed Parcel Report

Parcel Number: 32-1-061900

General Information

Township/City: TURNER TWP
 Taxpayer Name: MATTSON, RICHARD M
 Taxpayer Address: 1407 BILLY JON RD
 CLOQUET MN 55720
 Property Address: 52805 Loon Ave
 Township: 50 Lake Number: 1006200
 Range: 23 Lake Name: BIG SANDY LAKE **GD**
 Section: 34 Acres: 0.00
 Green Acres: No School District: 4.00
 Plat: BIG SANDY LAKE HIGHLANDS FIFTH ADDITION
 Brief Legal Description: LOT 35

Tax Information

OHW - 1216.56

Class Code 1: Non-Comm Seasonal Residential Recreational *100 YR Flood 1223.9*
 Class Code 2: Unclassified
 Class Code 3: Unclassified
 Homestead: Non Homestead
 Assessment Year: 2023

Estimated Land Value: \$219,500.00
 Estimated Building Value: \$10,100.00
 Estimated Total Value: \$229,600.00
 Prior Year Total Taxable Value: \$186,900.00
 Current Year Net Tax (Specials Not Included): \$1,196.00
 Total Special Assessments: \$0.00
 **Current Year Balance Not Including Penalty: \$0.00
 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.**



Detailed Parcel Report

Parcel Number: 32-1-061800

General Information

West Neighbor

Township/City: TURNER TWP
 Taxpayer Name: NIELSEN, WALTER C JR
 Taxpayer Address: 52809 LOON AVE
 MCGREGOR MN 55760
 Property Address:
 Township: 50 Lake Number: 1006200
 Range: 23 Lake Name: BIG SANDY LAKE
 Section: 34 Acres: 0.00
 Green Acres: No School District: 4.00
 Plat: BIG SANDY LAKE HIGHLANDS FIFTH ADDITION
 Brief Legal Description: LOT 34

Tax Information

Class Code 1: Residential 1-3 units Previously SRR
 Class Code 2: Unclassified
 Class Code 3: Unclassified
 Homestead: Owner Homestead
 Assessment Year: 2023

Estimated Land Value:	\$162,500.00
Estimated Building Value:	\$0.00
Estimated Total Value:	\$162,500.00
Prior Year Total Taxable Value:	\$123,800.00
Current Year Net Tax (Specials Not Included):	\$716.00
Total Special Assessments:	\$0.00
**Current Year Balance Not Including Penalty:	\$0.00
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.



Detailed Parcel Report

Parcel Number: 32-1-062000

General Information

East Neighbor.

Township/City: TURNER TWP
 Taxpayer Name: RODRIQUES, RONALD & WANDA
 Taxpayer Address: 5851 MEADOWVIEW DR
 WHITE BEAR LAKE MN 55110
 Property Address: 52801 Loon Ave
 Township: 50 Lake Number: 1006200
 Range: 23 Lake Name: BIG SANDY LAKE
 Section: 34 Acres: 0.00
 Green Acres: No School District: 4.00
 Plat: BIG SANDY LAKE HIGHLANDS FIFTH ADDITION
 Brief Legal Description: LOT 36

Tax Information

Class Code 1: Non-Comm Seasonal Residential Recreational
 Class Code 2: Unclassified
 Class Code 3: Unclassified
 Homestead: Non Homestead
 Assessment Year: 2023

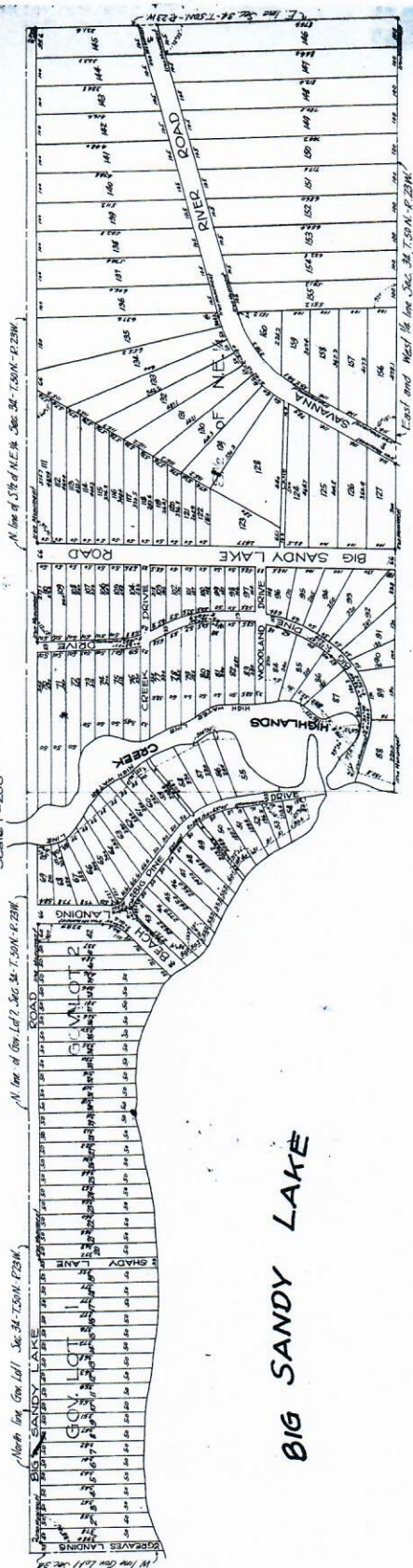
Estimated Land Value:	\$219,500.00
Estimated Building Value:	\$91,700.00
Estimated Total Value:	\$311,200.00
Prior Year Total Taxable Value:	\$263,700.00
Current Year Net Tax (Specials Not Included):	\$1,710.00
Total Special Assessments:	\$0.00
**Current Year Balance Not Including Penalty:	\$0.00
Delinquent 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.

BIG SANDY LAKE HIGHLANDS FIFTH ADDITION

AITKIN CO. MINN.
Scale 1"=200'



BIG SANDY LAKE

I do hereby certify that I have surveyed and plotted the property described in this plat as 'Big Sandy Lake Highlands Fifth Addition' that the plat is correct representation of said survey, that all distances are correctly shown on the plat in feet and decimals of feet, that the monuments for corners of lot or corners have been correctly placed in the ground as shown on the plat, that the outside boundary lines are correctly designated on the plat, that the topography of the land is correctly shown on the plat and that there are no wet lands or public highways to be designated on said plat other than as shown hereon.

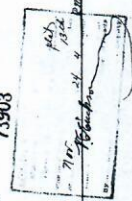
[Signature]
Surveyor

[Signature]
Notary Public Hennepin County Minn.
My commission expires March 14, 1924.

Have certificate subscribed and sworn to before me this 15 day of August AD 1924.

E. M. Anderson
Notary Public Hennepin County Minn.
My commission expires March 14, 1924.

[Signature]
County Auditor
73903



know all men by these presents that the Hay-Knights Incorporated owner and proprietor and Charles H. Gustafson, mortgagee, of the following described property lying in the State of Minnesota and County of Aitkin to-wit: All of Government Lots One(1) and Two(2) and the South One-half of the North-east Quarter of Section Thirty-four (34), Township Fifty (50) North Range Twenty-three (23) West of the Fourth Principal Meridian have caused the same to be surveyed and plotted as 'Big Sandy Lake Highlands Fifth Addition' and we do hereby declare and declare to the Public for public use forever the Public Parks, Lanes and Landings as shown on the annexed plat. Enforceable whereof declare hereunto set our hands and seals and Hay-Knights Incorporated has caused these presents to be signed by its President and its Secretary and its corporate seal to be hereunto affixed this 16th day of August AD 1924.

[Signature]
President
[Signature]
Secretary
Charles H. Gustafson

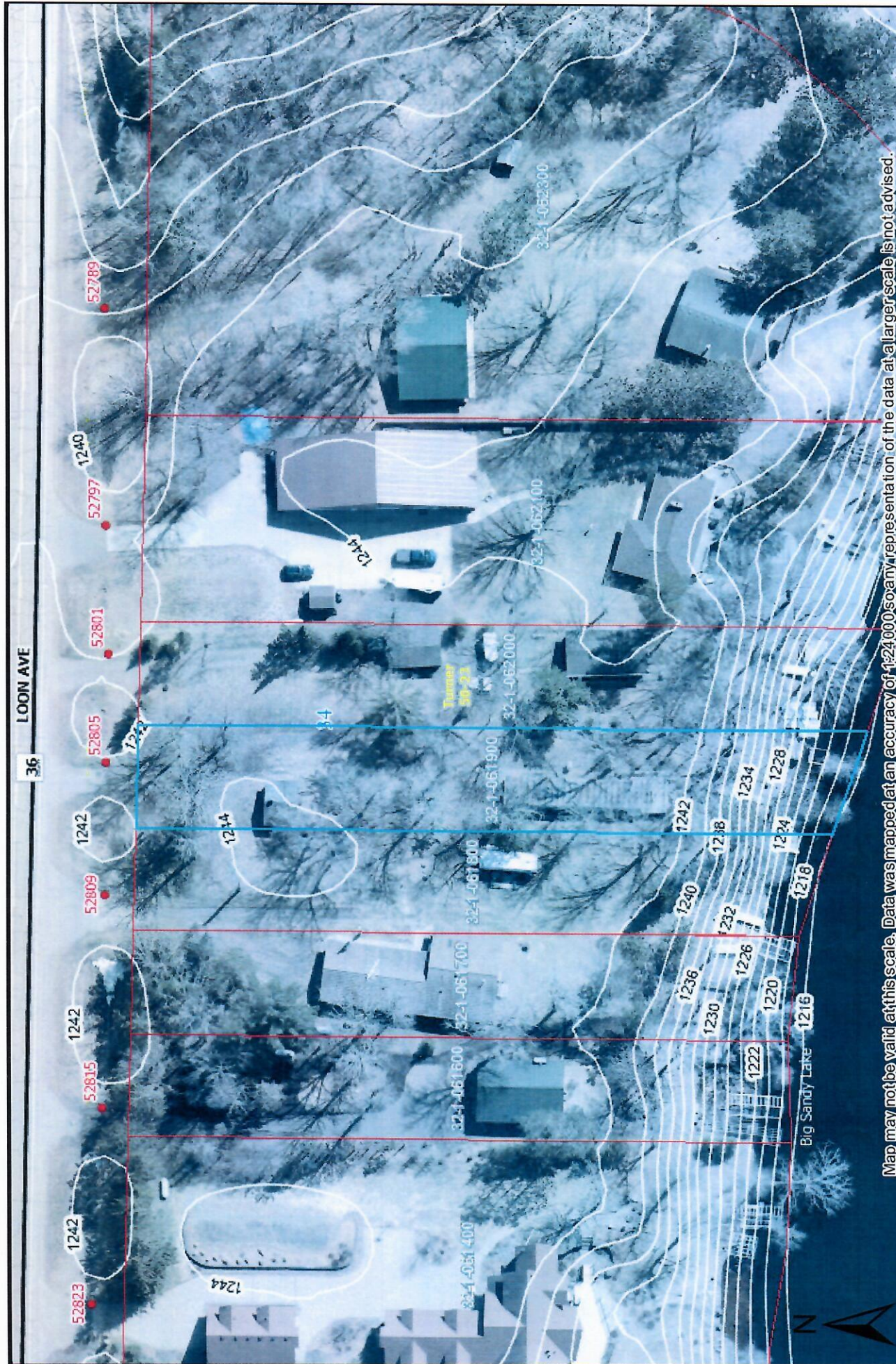
HAY-KNIGHTS INCORPORATED

On this 16th day of August AD 1924 before me a Notary Public within and for said County, personally appeared *[Signature]* as *[Signature]* to me personally known, who, being by me each duly sworn did say that they are respectively the President and Secretary of Hay-Knights Incorporated the corporation named in the above instrument and that the seal affixed to said instrument is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors and said Marcus Nelson and Lik-nights acknowledged said instrument to be the free act and deed of said corporation.

Notary Public Hennepin County Minn.
My commission expires July 2nd, 1924.

AD 1924 before me a Notary Public within and for said County, personally appeared *[Signature]* to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

Notary Public Hennepin County Minn.
My commission expires



Demask

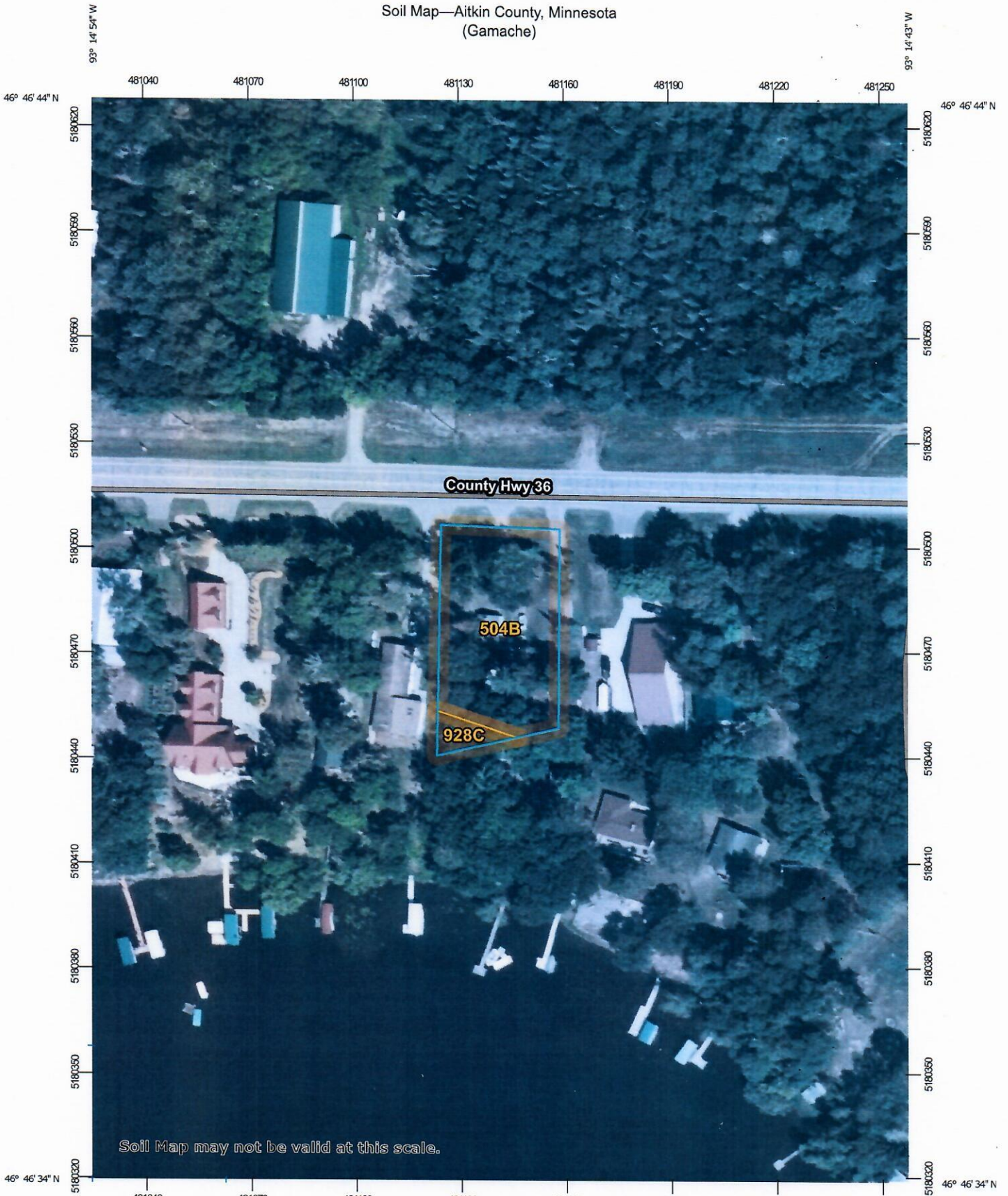
These data are provided on an "AS-IS" basis, without warranty of any type, expressed or implied, including but not limited to any warranty as to their performance, merchantability, or fitness for any particular purpose.

Web App Builder for ArcGIS

1:1,28 0 0.005 0.01 0.02 mi 1 inch = 94 feet

Aitkin County Date: 9/29/2023

Soil Map—Aitkin County, Minnesota
(Gamache)



Soil Map may not be valid at this scale.

Map Scale: 1:1,500 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

Aitkin County, Minnesota

504B—Duluth fine sandy loam, 1 to 6 percent slopes

Map Unit Setting

National map unit symbol: gjh7
Elevation: 980 to 1,640 feet
Mean annual precipitation: 25 to 30 inches
Mean annual air temperature: 39 to 45 degrees F
Frost-free period: 120 to 140 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Duluth and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Duluth

Setting

Landform: Moraines
Landform position (two-dimensional): Backslope, summit
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy till

Typical profile

A - 0 to 3 inches: fine sandy loam
E,Bw,2BE,2Bt - 3 to 41 inches: clay loam
2C - 41 to 60 inches: loam

Properties and qualities

Slope: 1 to 6 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.60 in/hr)
Depth to water table: About 13 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Available water supply, 0 to 60 inches: High (about 10.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: C/D
Ecological site: F090AY015WI - Loamy Upland with Carbonates
Forage suitability group: Sloping Upland, Acid (G090AN006MN)
Other vegetative classification: Sloping Upland, Acid (G090AN006MN)

Hydric soil rating: No

Minor Components

Blackhoof

Percent of map unit: 3 percent

Landform: Depressions

Hydric soil rating: Yes

Mahtowa

Percent of map unit: 3 percent

Landform: Depressions

Hydric soil rating: Yes

Rifle

Percent of map unit: 3 percent

Landform: Bogs

Hydric soil rating: Yes

Cromwell

Percent of map unit: 2 percent

Hydric soil rating: No

Cutaway

Percent of map unit: 2 percent

Hydric soil rating: No

Dusler

Percent of map unit: 2 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Aitkin County, Minnesota

Survey Area Data: Version 24, Sep 9, 2023

Aitkin County, Minnesota

928C—Cushing-Mahtomedi complex, 2 to 10 percent slopes

Map Unit Setting

National map unit symbol: gjk4
Elevation: 980 to 1,640 feet
Mean annual precipitation: 25 to 30 inches
Mean annual air temperature: 39 to 45 degrees F
Frost-free period: 120 to 140 days
Farmland classification: Not prime farmland

Map Unit Composition

Cushing and similar soils: 50 percent
Mahtomedi and similar soils: 35 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cushing

Setting

Landform: Moraines
Landform position (two-dimensional): Backslope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy till

Typical profile

E - 0 to 16 inches: very fine sandy loam
B/E - 16 to 19 inches: loam
Bt - 19 to 44 inches: loam
C - 44 to 60 inches: loam

Properties and qualities

Slope: 2 to 10 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 10 percent
Available water supply, 0 to 60 inches: High (about 9.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Ecological site: F090AY015WI - Loamy Upland with Carbonates
Forage suitability group: Sloping Upland, Acid (G090AN006MN)

Other vegetative classification: Sloping Upland, Acid
(G090AN006MN)
Hydric soil rating: No

Description of Mahtomedi

Setting

Landform: Moraines
Landform position (two-dimensional): Backslope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy and gravelly outwash

Typical profile

A - 0 to 4 inches: loamy sand
E - 4 to 15 inches: coarse sand
Bw - 15 to 26 inches: gravelly coarse sand
C - 26 to 60 inches: gravelly sand

Properties and qualities

Slope: 2 to 10 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Available water supply, 0 to 60 inches: Low (about 4.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: A
Ecological site: F090AY019WI - Dry Sandy Uplands
Forage suitability group: Sandy (G090AN022MN)
Other vegetative classification: Sandy (G090AN022MN)
Hydric soil rating: No

Minor Components

Cathro

Percent of map unit: 4 percent
Landform: Bogs
Hydric soil rating: Yes

Meehan

Percent of map unit: 4 percent
Hydric soil rating: No

Sandwick

Percent of map unit: 4 percent
Landform: Flats
Hydric soil rating: Yes

Alstad

Percent of map unit: 3 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Aitkin County, Minnesota

Survey Area Data: Version 24, Sep 9, 2023

Subsurface Sewage Treatment System Management Plan

Property Owner: Wendy Gamache Phone: 218-391-3058 Date: 10/31/2023
Mailing Address: 10 Farmstead Rd City: Esko MN 55733 Zip: _____
Site Address: 52805 Loon Ave. City: McGregor MN 55760 Zip: _____

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 12 months.
Local Government: check every 12 months.
State Requirement: check every 36 months.

(State requirements are based on MN Rules Chapter 7080.2450, Subp. 2 & 3)

My System needs to be checked every 12 months.

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.*

Owner ----> *Alarms* – Alarm signals when there is a problem. Contact a service provider any time an alarm signals.

Owner ----> *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: _____

Designer Signature: Jeff Brummer Date: 10/31/2023

See Reverse Side for Management Log

Maintenance Log

Activity	Date Accomplished									
Check frequently:										
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 _____)										
Check annually:										
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: Aitkin Co Operating Permit Required Follow Aitkin Co. Operating permit requirements.

Check alarm at least once a year. Pump Tanks at least once every 3 years.

Mow Mound Area at least once a year to keep brush and trees from growing

No Traffic on mound area, No Snowmobiles, No ATV's, No Parking.

Mitigation/corrective action plan: _____

AITKIN COUNTY ENVIRONMENTAL SERVICES

APPLICATION for an OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL

PERMITTEE Wendy Gamache PARCEL NUMBER 32-1-061900

ADDRESS 52805 Loon Ave. McGregor Mn 55760

LEGAL DESCRIPTION lot 35 Big Sandy Lake Highlands 5th Add.

TELEPHONE # 218-391-3058 GIS LOCATION _____

**A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM:
(Attach ISTS site evaluation and design; estimated cost of system
construction, operation, monitoring, service, component replacement, and
management; anticipated system life, hydraulic and organic loading rates)**

Type III because mottles at 8" and on compacted soils.

Type III 2 Bedroom Mound 36" washed sand under Rockbed.
Rockbed is 6' x 42'

B. MONITORING PLAN AND REPORTING FREQUENCY:

PARAMETER	COMPLIANCE LIMIT	SAMPLE LOCATION	SAMPLE FREQUENCY	SAMPLE TYPE	REPORTING FREQUENCY
FLOW	300 GPD	Event counter	Once a Month or when present		Send Report to Aitkin Co. Once a year
5-DAY BOD					
TOTAL NITROGEN					
TOTAL PHOSPHORUS					
TSS					
FATS,OILS AND GREASE					
FECAL COLIFORM					
SEPARATION DISTANCE					

Owner will read event counter once a month or when present. Owner will send monthly readings report to Aitkin co. or the inspector ONCE A YEAR.

_____ will perform the monitoring of this septic system.

C. MAINTENANCE PLANS

PARAMETER	LOCATION	FREQUENCY
300 GPD	Read Event Counter	Once a month or when present
Calibrate pump out gallons	Measure pump tank and calculate gallons pumped out per event	Calibrate system when installed and in operation. Check calibration number at 1st year inspection and every one after
Report monthly readings to Aitkin Co. Or inspector	Keep records of monthly readings	Once a year submitt report to Aitkin Co.

D. MITIGATION PLAN:

Have system Inspected

I hereby certify with my signature as the designer, that all data for the operating permit application is true and correct to the best of my knowledge. I agree to indemnify and hold Aitkin County harmless from loses, damages, costs and charges that may be incurred by the County because of the information submitted with this application.

Jeff Brummer
Signature

L-1347
License Number

10/31/2023
Date

Jeff Brummer
Name (please print)

14650 Agate Ridge Rd Brainerd MN 56401
Address

(218) 821-0704
Telephone #

**MAINTENANCE SERVICE, MONITORING AND INSPECTION
CONTRACT
FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM**

It is hereby agreed this ____ day of _____, _____ by and between
Jeff Brummer (Inspector) and Wendy Gamache (client)

(Client) Name & Address
Wendy Gamache 52805 Loon Ave. McGregor Mn 55760

Mailing Street Address 10 Farmstead Rd

City, State, Zip Esko MN 55733

That in consideration of the payments provided herein, the Inspector shall provide services to perform Preventative Maintenance, Monitoring and Inspection of the Individual Sewage Treatment System (ISTS) located at the property described in the Aitkin County Operating Permit.

Each inspection includes an examination of the ISTS followed by a written report to the client. This inspection report shall contain recommendations for operation and maintenance for failure-preventative measures, if any are deemed appropriate by the inspector and a list of recommended corrective measures or replacement parts. The Inspector is authorized to submit a copy of the report to the Aitkin County Environmental Services Department.

This contract does not assume any responsibilities or obligations, which are normally the responsibilities of the Client, as related to parts or labor and does not extend to cover any costs that may be associated with any recommendations made under this contract.

The Inspector can only contract or subcontract for parts or labor after authorization. Billings for service calls shall be made on a case by case basis. This contract only covers maintenance, monitoring and inspection services per current Aitkin County Operating Permit and does not cover alarm calls of any kind.

The Inspector shall be provided access to the site and the system in order to perform the following services:

SEPTIC TANK AND LIFT STATIONS INSPECTION

(check the boxes needed to fill the requirements of the Operating Permit)

Check septic tank and compartments for solids buildup and general appearance. If necessary, have tanks pumped (cost of pumping is the responsibility of the client).

Check effluent filter for buildup and clean, if applicable.

Check pumping system, including control panel and floats.

Owner ----> Record and date the readings of the elapsed time meter and cycle counter(s), if applicable. Owner is responsible for monthly event counter readings

Check dosing settings (in the control panel, if applicable).

___ Other: _____

**If the septic tank or lift stations need pumping to be in compliance with the operating permit the cost of the pumping is the responsibility of the Client.

TREATMENT DEVICE

___ Inspect pretreatment unit (aerobic tank, sand filter, etc.) per manufacturer's recommendations, if applicable.

___ Inspect and clean any parts per manufacturer's recommendations.

___ Inspect and clean laterals, if applicable.

___ Inspect the appearance of the wastewater inside the unit for color, turbidity and examination of odors.

___ Sample effluent per Operating Permit monitoring requirements.

(Cost of sampling and analysis is the responsibility of the Client)

___ Other: _____

DISPERSAL FIELD

Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)

If liquid level monitors are installed, levels will be observed and recorded.

___ Flush filters and clean cartridges, if applicable.

___ Check field control unit solenoid operations or manual control, if applicable.

___ Other: _____

In no event shall the Inspector be responsible for special or consequential damages, including but not limited to, loss of time, injury to personal property or any other consequential damages or incidental or economic loss due to equipment failure or for any other reason. This contract does not assume any responsibilities or obligations, which are normally, the responsibility of the Client or as, related to parts or labor and does not extend to cover any costs that may be associated with any recommendations made under this contract.

This contract shall be effective: Beginning At time of Certification of Compliance Installation
and Ending _____, _____

Cost for Maintenance Service, Monitoring and Inspection Contract is:

\$ _____ /yr. For _____ years totaling \$ _____ To be Determind at time of service

The Inspector agrees to provide inspection, monitoring and routine maintenance service only under this contract. The Client remedies for breach of this contract shall be limited to refund of any of the amounts paid in advance for service. This contract may be renewed 30 days from the ending date.

Payment for all services shall be paid At 1st inspection and every one after.

Client:

Inspector:

Sign: _____

Sign: Jeff Brummer

Print: Wendy Gamache

Print: Jeff Brummer

Date: _____

Date: 10/31/2023

Brummer Septic LLC. 218-821-0704
14650 Agate Ridge Rd Brainerd MN 56401
brummerseptic@gmail.com

{ Type III Design Notes for Owner and Installer }

Property Owner: Wendy Gamache Date: _____ Installer's Initials : _____
 PIN : 32-1-061900 Site Address: 52805 Loon Ave. McGregor Mn 55760

This is a TYPE III Septic System, Operating Permit Required of Owner. Permit # _____

Reason for Type III Mottles at 8" and on compacted soils.

Description of System Type III 2 Bedroom Mound 36" washed sand under Rockbed.
Rockbed is 6' x 42'

1st Tank Gal. _____	1st compartment gal. _____	2nd Comp _____	3rd _____
2nd Tank Gal. _____	1st compartment gal. _____	2nd Comp _____	3rd _____
3rd Tank Gal. _____	1st compartment gal. _____	2nd Comp _____	3rd _____
1st Pump tank Gal. _____		1st Pump Brand and model # _____	
1st Pump GPM _____	1st Pump Ft. of Head _____	1st Pump Gal. per Dose _____	
1st Pump tank Gal. per inch. _____	1st Pump Inches per Dose _____	1st Pump Doses per Day _____	
1st Pump Design GPD _____	1st Pump Measured dose per day _____	Timed or demand Dose _____	
Time Settings: Minutes ON _____	Minutes OFF _____	Inches Pumped after drainback _____	
Notes : _____			
2nd Pump tank Gal. _____		2nd Pump Brand and model # _____	
2nd Pump GPM _____	2nd Pump Ft. of Head _____	2nd Pump Gal. per Dose _____	
2nd Pump tank Gal. per inch. _____	2nd Pump Inches per Dose _____	2nd Pump Doses per Day _____	
2nd Pump Design GPD _____	2nd Pump Measured dose per day _____	Timed or demand Dose _____	
Time Settings: Minutes ON _____	Minutes OFF _____	inches Pumped after drainback _____	
Notes : _____			

1st Alarm: Tank _____ Reason: _____
 2nd Alarm: Tank _____ Reason: _____
 3rd Alarm: Tank _____ Reason: _____

Water Meter Installed on house hold water: _____ Where is it located : _____

Event counter Installed on pump: _____ Which Pump: _____ Gal. Per Event _____

Where is Event Counter Located: _____

Requirement of Operating Permit

Owner to UNDERSTAND System Operation: Required to do monthly readings of water meter or event counter.

Owner to record readings every month that system is being used, should know calculations for Gal. per day.

Owner to REPORT to Aitkin Co. once a year with log of monthly readings and annual Inspection Report

Owner to Hire an Inspector for a Once a year Inspection of the system's, Operation, Mechanical functions, and Compliance with Operating Permit.

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

307 Second Street NW, Room 219
Aitkin, Minnesota 56431

PH: (218) 927-7342
FX: (218) 927-4372



PART VI: VARIANCE APPLICATION

“Aitkin County Shoreland Performance” Worksheet **Instructions:**

Are you applying for a variance from the Aitkin County Shoreland Management Ordinance? If so, you must complete the “Aitkin County Shoreland Performance” sheet. This is used as an attempt to evaluate your property and project as it relates to the required setbacks and the intent of the Ordinance to protect water quality, habitat and aesthetics. Your project will receive a ranking/score that relates to a “percentage” of compliance with the Department of Natural Resources guidelines and Aitkin County Ordinances.

STEP 1: Determine the level of non-conformance and score by completing 1-5 on the worksheet. The actual setback will be multiplied by the corresponding ‘score multiplier’ to determine your “Pre-mitigation Lot Score”.

STEP 2: Review the mitigation options and circle those that you would be willing to implement as a condition of your variance. See letters A-J.

*As a note, if you will be creating a buffer zone or other landscape project as part of your mitigation plan, please be prepared to present an approved plan to the Board of Adjustment. Although not familiar with specifics of the “Aitkin County Shoreland Performance” worksheet, the Aitkin County Soil & Water Conservation District [SWCD] (218-927-7284) and the University of Minnesota Extension Master Gardeners (218-927-2538) may be resources that would be able to provide you with planting suggestions and landscaping ideas.

STEP 3: A final score is determined by adding your “Pre-mitigation Lot Score” with your “Mitigation Total”. *Please note, the property should obtain a score of 100 or more to meet performance standard requirements.*

After a practical difficulty has been determined, the Board of Adjustment may use the “Aitkin County Shoreland Performance” sheet submitted with your application and/or use their own completed sheet to attempt to mitigate impacts to the water-body and/or adjoining properties.

If you have any questions, please contact Aitkin County Environmental Services – Planning & Zoning at (218) 927-7342.

AITKIN COUNTY SHORELAND PERFORMANCE

(Structure Placement Guidance)

A property should obtain a score of 100 or more to meet performance standard requirements. A conforming lot is assigned a score of 100. A lot is deemed conforming when the structure meets the required setbacks to the protected water as specified in the Aitkin County Shoreland Management Ordinance (SMO). A structure that fails to meet this definition is considered non-conforming.

To determine the level of non-conformance and score (See Reference Table):

- | | |
|---|----------------|
| 1) Determine the DNR classification of the protected water on the lot (SMO-4.13 & 4.14) | 1: <u>GD</u> |
| 2) Determine the required "Structure Setback" to that classification of water (SMO 5.2) | 2: <u>75</u> |
| 3) Determine the "Actual Setback" of the structure by measuring the closest part of the structure to the protected water, bluff, right-of-way, property line, etc. for which a variance is sought..... | 3: <u>200</u> |
| 4) Enter the corresponding 'Score Multiplier' | 4: <u>1.33</u> |
| 5) Pre-mitigation 'Lot Score': Determine the percentage of the encroachment as it relates to the standard setback by multiplying the Actual Setback with the 'Score Multiplier' (Note: round to the nearest whole number) | 5: <u>266</u> |

Reference Table: Performance Multipliers for structures, septic, bluff, and sidelots in Aitkin County.

Protected Waters Type <i>(DNR Classification; SMO 4.13-4.14)</i>	Required Structure Setback	Score Multiplier Structures	Required Septic Setback	Score Multiplier Septic	Score Multiplier Bluff	Score Multiplier Sidelot
General Development Lake	75'	1.333	75'	1.333	3.33 <small>(30' setback)</small>	10.000 <small>(10' setback)</small>
Recreational Development Lake	100'	1.000	75'	1.333		
Natural Environment Lake	150'	0.667	150'	0.667		
Mississippi River	150'	0.667	125'	0.800		
Tributary Stream	100'	1.000	75'	1.333		
Forested Stream	150'	0.667	100'	1.000		
Remote Stream	200'	0.500	150'	0.667		

Mitigation: To bring a non-conforming structure to a score of 100 the landowner conducts and maintains one or more of the below listed mitigating activities:

- | | |
|---|------------------------------------|
| A) Zone A(1): Plant and/or maintain a 12.5' wide natural vegetated buffer zone adjacent to the OHW and record deed restrictions to maintain vegetation in its natural state, prohibit mowing or vegetation removal.* Water access as defined in the Shoreland Management Ordinance is allowed (Section 5.31.B.2.c)..... | 15 points |
| Zone A(2): Plant and/or maintain a 25' wide natural vegetated buffer zone adjacent to the OHW and record deed restrictions to maintain vegetation in its natural state, prohibit mowing or vegetation removal.* Water access as defined in the Shoreland Management Ordinance is allowed (Section 5.31.B.2.c)..... | 30 points |
| B) Zone B: Plant and/or maintain an <u>additional</u> 12.5' wide natural vegetated buffer zone between Zone A landward. Record deed restrictions to maintain vegetation in its natural state, prohibit mowing or vegetation removal.* A ten-foot (10') access path is allowed. | 20 points |
| C) Zone C: Plant and/or maintain an <u>additional</u> 12.5' wide natural vegetated buffer zone between Zone B landward. Record deed restrictions to maintain vegetation in its natural state, prohibit mowing or vegetation removal.* A ten-foot (10') access path is allowed. | 10 points |
| D) Construction of rain garden(s) to Wisconsin DNR Manual specifications..... | 20 points |
| E) Removal of <u>all</u> other structures that do not meet the standard building setbacks, including water oriented structures..... | 20 points |
| F) Removal of impervious surfaces to at least half ordinance limits (SMO 5.52.A) | 10 points |
| G) Removal of fill all placed in historic wetlands and guarantee of no future wetland fill recorded on deed | 10 points |
| H) Re-vegetate bluff or steep slopes* <u>and</u> provide screening of structures from the lake. | 10 points |
| I) Diversion of all water runoff from impervious surfaces away from the lake into retention ponds, subsurface drains, wetlands, etc. with no outlet to the lake or tributary | 10 points |
| J) Existing conditions may apply on the property that warrant credit..... | <i>To be determined by P&Z</i> |

Final Score = Pre-mitigation Lot Score (Line 5) _____ + Mitigation Totals (Lines A-I) _____ = _____

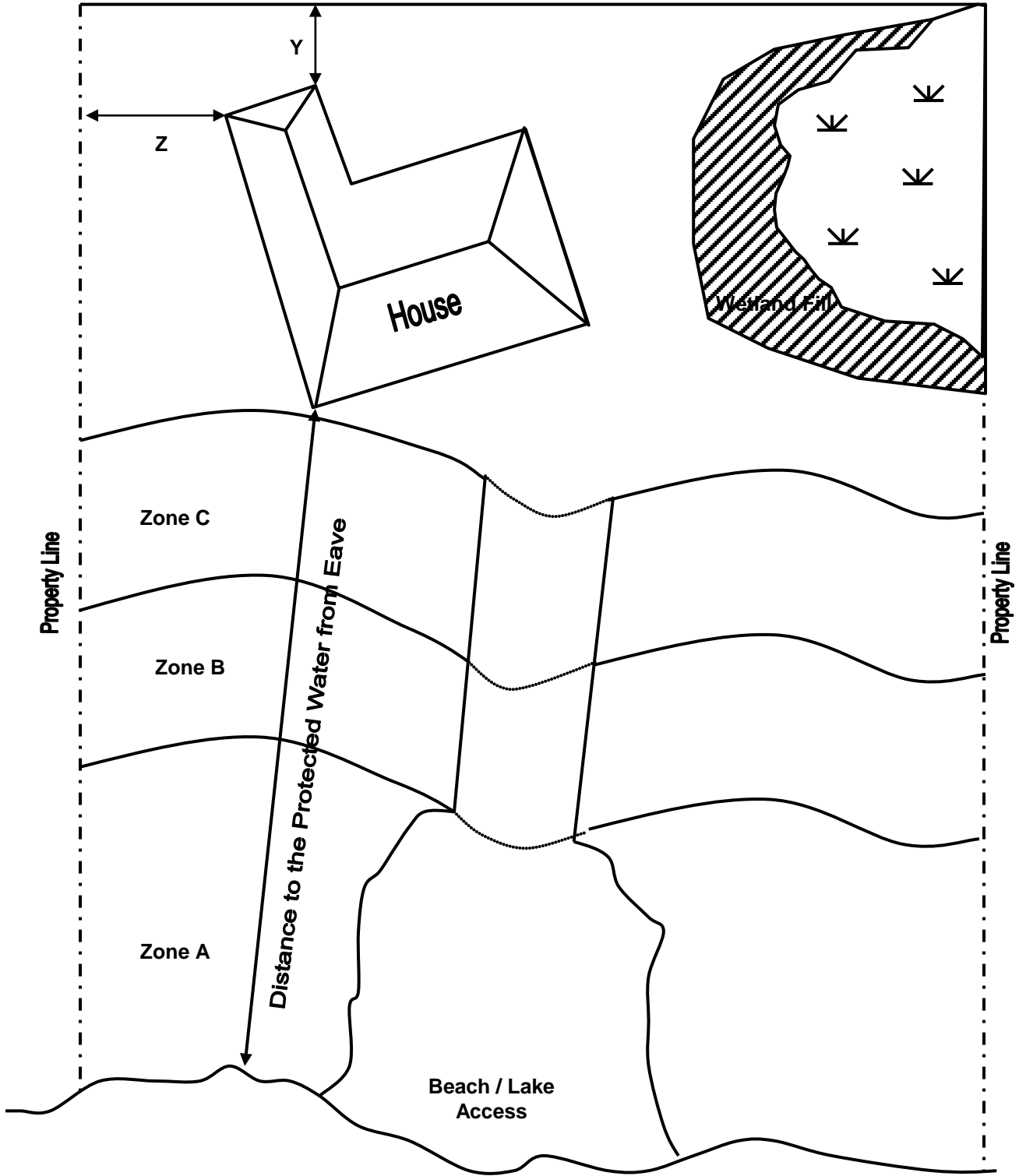
**Note: Plant materials for vegetative buffers shall be native to northern Minnesota. For every 5,000 square feet of buffer area, there shall be a minimum of four types of trees, six types of shrubs, seven forbs, and three grasses planted to achieve a one plant per square foot minimum coverage. Survival of all plants must be guaranteed for a minimum of 5 years*

Board of Adjustment Chairperson

Applicant

AITKIN COUNTY SHORELAND PERFORMANCE
(Example)

Road right-of-way (ROW)



Recreational Development Lake (RD)

1/2



A444040

Office of the County Recorder
Aitkin County, Minnesota

I HEREBY CERTIFY THE WITHIN INSTRUMENT WAS
FILED, AND/OR RECORDED ON 3/5/2018 9:00 AM

PACKAGE: 57788

REC FEE: \$46.00

TRANSFER ENTERED

This 5 Day Mar 2018

Kirk Peysar

County Auditor

Elizabeth Harmon

Deputy

Michael T. Moriarty, Aitkin County Recorder

AFFIDAVIT OF IDENTITY AND SURVIVORSHIP

Minnesota Uniform Conveyancing Blanks
Form 50.2.2 (2011)

State of Minnesota, County of Carlton

Name of Decedent: BEVERLY J. MATTSON, a/k/a
BEVERLY JEAN MATTSON

I, RICHARD M. MATTSON, being duly sworn on oath state from personal knowledge:

1. That Decedent is the person named in the certified copy of the Certificate of Death attached hereto and made a part hereof.

2. That the name of the survivor is: Richard M. Mattson.

3. That on the date of death, Decedent was an owner as a joint tenant of the land legally described as follows:

→ Lot Thirty-five (35), Big Sandy Lake, Highlands Fifth Addition. SUBJECT to the U.S. Government flowage rights and mineral reservations of record.

AND

→ Lot One Hundred Forty-two (142), Big Sandy Lake, Highlands Second Addition.

as shown by instrument recorded on April 25, 1979, as Document No. 202322, in the Office of the County Recorder

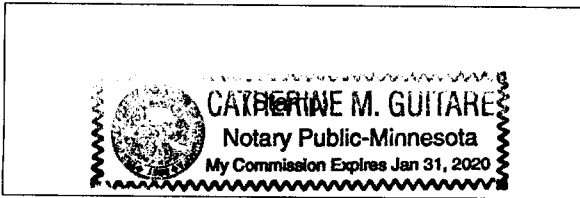
Registrar of Titles of Aitkin County, Minnesota.

I know the matters herein stated are true and make this Affidavit for the purpose of inducing the acceptance of title to the real property described in the above documents.

Affiant

Richard M. Mattson
Richard M. Mattson

Signed and sworn to before me on February 26, 2018, by Richard M. Mattson.



Catherine M. Guitare
(Signature of Notarial Officer)

Title and Rank: Notary Public

My commission expires: 1/31/2020

THIS INSTRUMENT WAS DRAFTED BY:
Jennifer L. Carey
Hanft Fride
1000 U.S. Bank Place
130 W. Superior Street
Duluth, MN 55802

TAX STATEMENTS FOR THE REAL PROPERTY DESCRIBED IN THIS INSTRUMENT
SHOULD BE SENT TO:
(insert name and address of person to whom tax statements should be sent):

Richard M. Mattson
1407 Billy Jon Road
Cloquet, MN 55720