Preliminary & Field Evaluation Form Design for New tanks Only www.So

www.SepticResource.com vers 12.4

Date 5/8	5/8/2023		Sec / Twp / Rng	S-30, T-46, R-26			
	24-0-056501						
				LUG (county, city, township)			
	bert Lawson			Owners address (if different)			
Property Address: 29	982 391st PI	Aitkin IV	IN 56431	3307 Katie Ln.			
City / State / Zip:				Ardan Hills N	MN 55112		
		Flow In	formation a	nd Waste Type / Strength	1		
Estimated Design flow	Estimated Design flow 30 3 bedroom				Hi Strength	✓ Domestic	
Commenter Evictics and		. 2 1		Any Non-Domestic Waste	Yes (class V)	✓ No	
Comments: Existing pressure bed is a 3 bedroom type I sizing. Owner is building new house, Needs new septic/pump tanks				Sewage ejector/grinder pump	✓ Yes	☐ No	
Pump, collapse,	, IIII or remove	existing t	anks.	Water softener	Yes	✓ No	
				Garbage Disposal	Yes	✓ No	
				Daycare / In home business	Yes	✓ No	
			Site I	nformation			
		Yes	✓ No	Well casing depth	Existing deep	well	
improvements located Easements on lot locate	(see site map)	Yes	✓ No ✓ No	Well casing depth Drainfield w/in 100' of residential well	Existing deep	well No	
improvements located Easements on lot locate (see site map) Property lines determine	(see site map)	☐ Yes ✓ Yes		Drainfield w/in 100' of	Yes		
Easements on lot located (see site map) Property lines determine (see site map) Req'd setbacks determine	(see site map) ed ned Surve	☐ Yes ✓ Yes	✓ No	Drainfield w/in 100' of residential well Site w/in 200' of transient	Yes	✓ No	
improvements located Easements on lot locate (see site map) Property lines determing (see site map) Req'd setbacks determing (see site map) Utilities located & identification	(see site map) ed ned Surve	☐ Yes ☑ Yes eyed	✓ No	Drainfield w/in 100' of residential well Site w/in 200' of transient noncommunity water supply (T	Yes Yes NCWS)	✓ No ✓ No	
improvements located Easements on lot locate (see site map) Property lines determine (see site map) Req'd setbacks determine (see site map) Utilities located & iden (gopher state one call) Access for system mai	(see site map) ed ned Surve	☐ Yes ✓ Yes eyed ✓ Yes	✓ No No No	Drainfield w/in 100' of residential well Site w/in 200' of transient noncommunity water supply (T Site w/in an inner wellhead mgmt zone (CWS/NTNCWS) Buried water supply pipe	☐ Yes ☐ Yes NCWS) ☐ Yes	✓ No ✓ No ✓ No	
Existing & proposed lo improvements located Easements on lot locate (see site map) Property lines determing (see site map) Req'd setbacks determing (see site map) Utilities located & ident (gopher state one call) Access for system maing (shown on site map) Soil treatment area pro-	(see site map) ed ned Surve ined ntified	☐ Yes ✓ Yes eyed ✓ Yes ✓ Yes	✓ No No No	Drainfield w/in 100' of residential well Site w/in 200' of transient noncommunity water supply (T Site w/in an inner wellhead mgmt zone (CWS/NTNCWS) Buried water supply pipe w/in 50' of system Site located in Shoreland	☐ Yes ☐ Yes NCWS) ☐ Yes ☐ Yes	✓ No ✓ No ✓ No ✓ No	

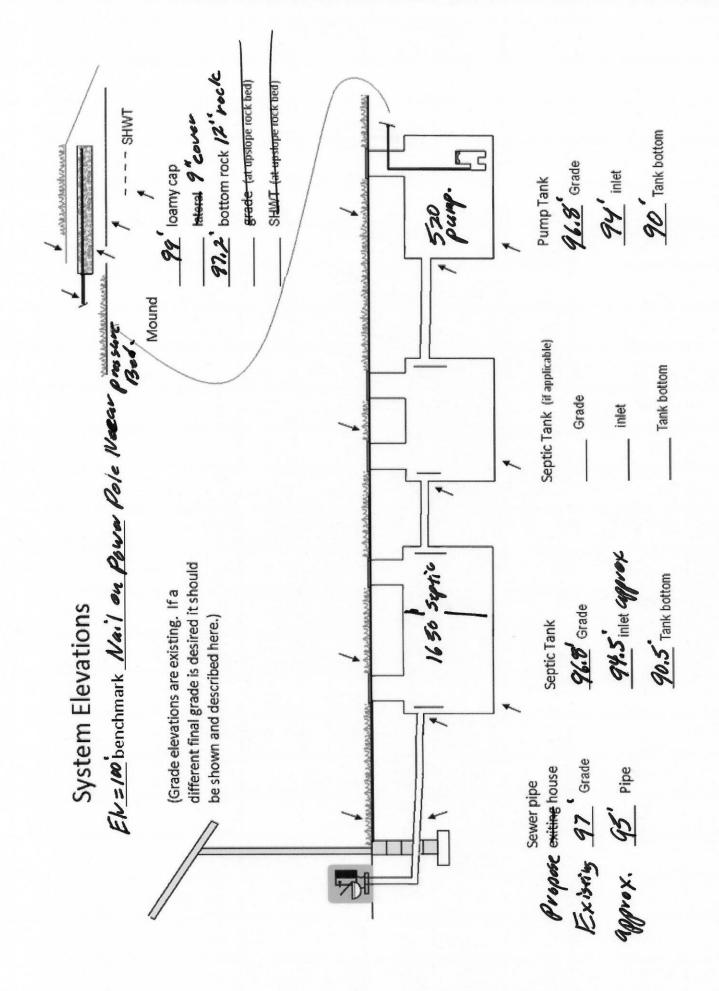
		50	oil Information		
Original soils	✓ Yes	☐ No	Evidence of site: Cut Filled Compacted Disturbed	Yes Yes Yes Yes	✓ No ✓ No ✓ No ✓ No
Soil logs completed and attached	✓ Yes	☐ No	Perk test completed and attached (if applicable)	Yes	✓ No
Soil loading rate (gpd/ft ²)			Percolation rate (if applicable)	-	
Depth/elev to SHWT			Flooding or run-on potential (comments)	Yes	☐ No
Depth to system bottom maximum (or elev minimum) Depth/elev to standing			Flood elevation (if applicable)		
water (if applicable) Depth/elev to bedrock			Elevation of ordinary high water level (if applicable)		
(if applicable)	-		Floodplain designation and		
Soil Survey information determined (see attachment)	Yes	✓ No	elev - 100 yr/10 yr (if applicable)	
Differences between soil survey and field evaluation (if applicable)					
	_				
I hereby certify this evaluation wa	is completed	d in accordan	ce with MN 7080 and any local req's.		
	wor	Brur	mmer Septic LLC.		L-1347
Designer Signature		Com	npany		License #

2011 purple code

Tank Design - Aitkin county

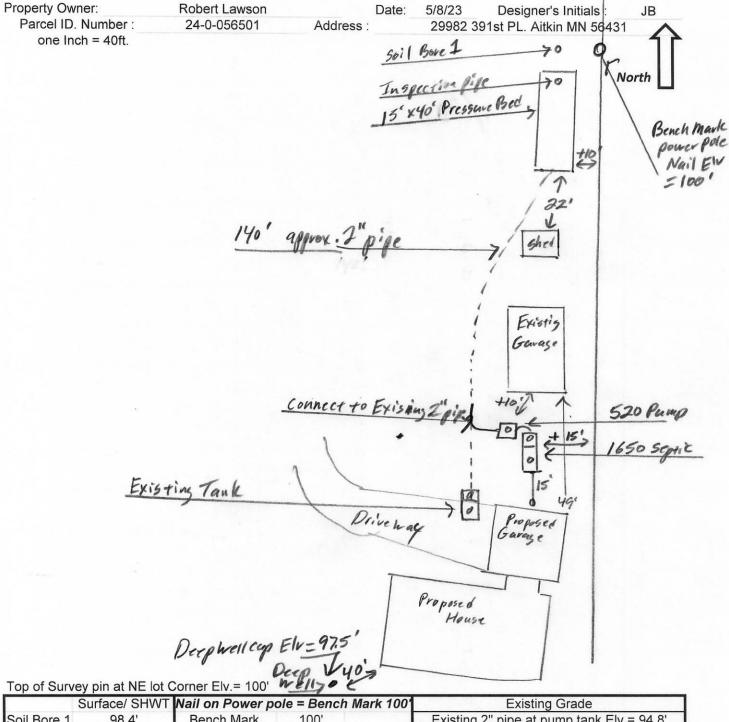
www.SepticResource.com (vers 15.2)

	Property Owner:	Robert Lawson	Date: 5/8/2023		
	Site Address:	29982 391st PL. Aitkin MN 56431	PID:	24-0-056501	
	Comments:				
instruc	tions: = ent	er data = adjust if desired		= computer calculated - DO NOT CHANGE!	
1)	3 bedroom	Type I Residential	System		
2)	450 GPD design f	low			
3)	Yes Garbage disp	oosal or pumped to septic Install 1650 .	lacobson :	2/Compartment septic tank	
4)	1500 Gal Septic ta	ank (code minimum) 1500 Gal S		k (design size / LUG req'd) Multiple tanks or compartments req'd	
5)	1.2 GPD/ft ² mou	and sand loading rate contour loading	rate of [12 req's a min 37.5 ft. long rockbed	
6)	10.0 ft rockbed v	width 37.5 ft rockbed length			
7)	3.0 ft lateral spa		(maxim	um of 3 for both)	
8)	3 laterals	35.5 feet long 12.0 perfs / later (1/2 a perf means the	L	36 perfs total rf starts at the middle feed manifold)	
9)	1/4" inch perfs at	t 1 feet residual head gives 0.74	gpm flo	w rate per perforation	
	for this perf size & s	spacing, & pipe size on line 12, max perfs/late	eral =	25 , line #8 must be less> OK	
10)	6.0 doses per da	ay (4 minimum)			
11)	75 gallons per d	dose (treatment volume)			
				1.50 5x	
12)	2.00 inch diamete	er laterals must be used to meet "4x pipe volu	ıme" requ	2.00 3x	
13)	140 feet of	2.0 inch supply line leads to 24		of drainback volume op feed" manifold to control the drainback)	
14)	99 gallons TOT	AL pump out volume (treatment + drainback)			
15) 16)	12 feet vertica 27 GPM @	l lift from pump to mound laterals, leads to a 21 feet of head, Pump requirement		Install Jacobson 520 pump tank >50gpm may require an extra 3-6' of head)	
17)	500 gal Dose tar	nk (code minimum) 520 gal Dose tar	ık (design	size / LUG req'd) at 16.57 gpi	
18)	6.0 inch swing of	on Demand float, or timed dosing of 3.7 Average flow, =70% of Peak design flow) 6	_		
19)		bottom of tank to "Pump OFF" float	7 :L	to "Timer ON" float if time decad	
20) 21)		bottom of tank to "Pump ON" float, or 12 bottom of tank to "Hi Level" float, or 31	a managasta maga	s to "Timer ON" float if time dosed s to "Hi Level" float if time dosed	
22)	172 gallons rese	erve capacity (after High Level Alarm is activ	ated)		





8 Surveypin Elv = 100'



	Surface/ SHW I	Nail on Power pole = Bench Mark 100			Existing Grade
Soil Bore 1	98.4'	Bench Mark	100'		Existing 2" pipe at pump tank Elv.= 94.8'
Soil Bore 2		Ground Elv. BM	98.6'		Existing Garage grade SW corner Elv.= 96.8'
Soil Bore 3		Ground Elv. Tank	96.8'	New	Deep well Cap Elv.= 97.5'
	Ground at	Proposed house	97'		Approx.Sewer pipe at HouseElv.= 95'

Please show all that apply (Existing) Wells within 100ft. Of Drain field.

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

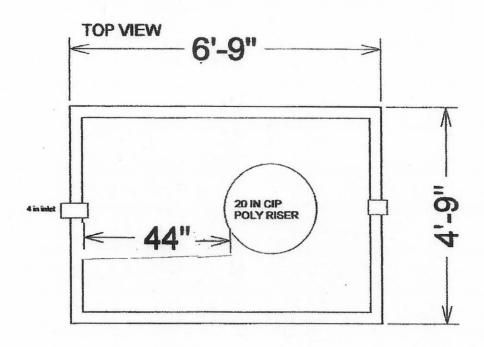
Component Location Property Lines
OHW ordinary high water Structures

Lot Easements Setbacks

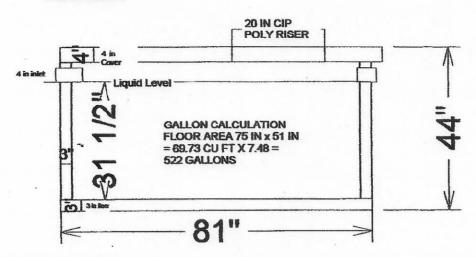
New tank Design Notes - Aitkin county

Property Owner: Robert Lawson	Da	te: 5/8/23					
Site Address: 29982 391st PL. Aitkin N	MN 56431 P	ID:24-0-056501					
Comments: Mound design may not follow Aitkin co. Auto fill form for mound design.							
1 This is a type I pressure bed for a 3 bedro	om House. Existing deep wel	l location is SW of House.					
2 Existing 15' x 40' 3 bedroom pressure bed							
Existing tanks will be pumped, collapsed, filled or removed.							
3 New house will be 3 bedrooms with a lift in the basement.							
Sewer pipe will exist north side of proposed garage. House elevation not set at time of design.							
4 Bench Mark Elevation = 100' is a nail on a power pole near pressure bed.							
Top of survey pin at NE lot corner is Elv.= 100'							
5 Install Jacobson 1650 Compartment tank for gravity flow from main floor of house (Elv. not set)							
Install clean out near house.							
6 Install 520 Jacobson pump tank with grav	ty flow from septic tank . Insta	all the pump for 6 demand doses					
per day. approx. 99 gallons per dose, 6.0	inches of tank level. Install ala	arm at 3 inches from pump on level.					
Install all manholes, inspection pipes and clean-outs to grade or above, insulate top of tank.							
Recommend raising manholes to 4" above finished grade.							
7 Connect Existing 2" supply pipe to 520 pump tank ,install so pipe drains back to tank.							
8 Recommend Installing an Effluent filter and Alarm on septic tank outlet.							
9 Recommend installing an event counter on all systems with a pump.							
Designed to Aitkin Co. and MPCA recom	mendations and requirements	S.					
01118							
	Brummer Septic LLC. Design Company	L-1347					
System C Signature	csign company	License#					

520 Gallon Pump Tank



SIDE VIEW

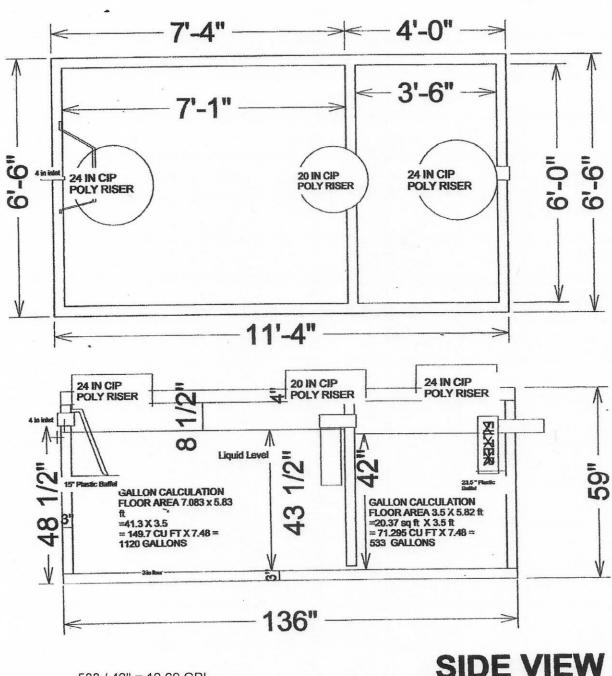


522 gals. / 31.5" = 16.57 GPI

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

1650 Gallon 2 Compartment **Septic Tank**

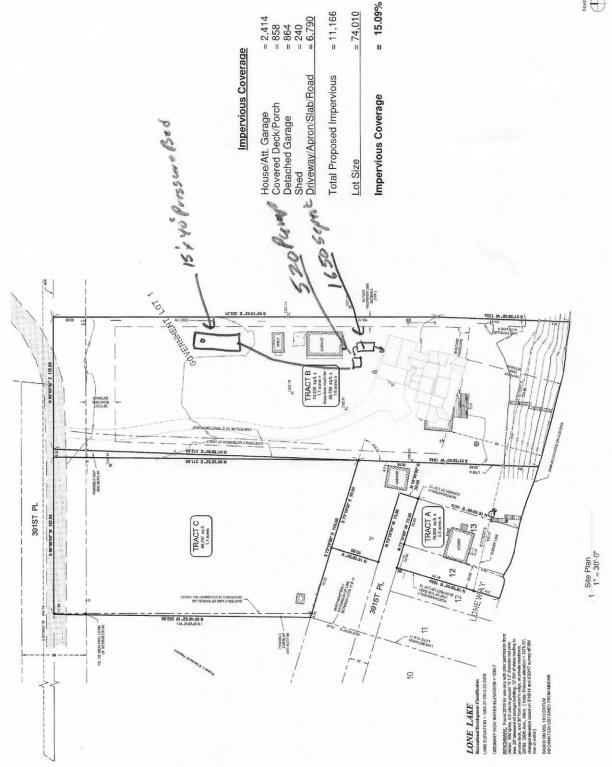
TOP VIEW



533 / 42" = 12.69 GPI

SIDE VIEW

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





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Detailed Parcel Report

Parcel Number: 24-0-056501

General Information

Township/City:

NORDLAND TWP

Taxpayer Name:

LAWSON, ROBERT P

Taxpayer Address:

3307 KATIE LANE

ARDEN HILLS MN 55112

Property Address:

29982 391st Pl

Township:

46

Lake Number:

1012500

Range:

26

Lake Name:

LONE LAKE

Section:

30

Acres:

1.70

Green Acres:

No

School District:

1.00

Plat:

Brief Legal Description:

1.70 AC OF LOT 1 IN DOC #244352

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:

\$302,200.00

Estimated Building Value:

\$24,500.00

Estimated Total Value:

\$326,700.00

Prior Year Total Taxable Value:

\$269,600.00

Current Year Net Tax (Specials Not Included):

\$1,630.00

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.