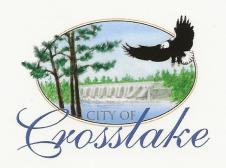
City Hall: 218-692-2688

Planning & Zoning: 218-692-2689

Fax: 218-692-2687



13888 Daggett Bay Rd Crosslake, Minnesota 56442 www.cityofcrosslake.org

CITY OF CROSSLAKE

PLANNING COMMISSION/BOARD OF ADJUSTMENT October 23, 2020 9:00 A.M.

Crosslake City Hall 13888 Daggett Bay Rd, Crosslake MN 56442 (218) 692-2689

PUBLIC HEARING NOTICE

Applicant: James Reid & Coral C Price

Authorized Agent: N/A

Site Location: 13130 Gladick Lane, Crosslake, MN 56442 on Rush Lake-GD

Variance for:

- Lake setback of 44 feet where 75 feet is required to proposed septic system
- Side yard setback of 2 feet where 10 feet is required to proposed septic system
- Road right-of-way setback of 2 feet where 10 feet is required to proposed drainfield
- Dwelling setback of 4 feet where 10 feet is required to the septic tank
- Dwelling setback of 8 feet where 20 feet is required to the drainfield

To construct:

• A new type III septic system

Notification: Pursuant to Minnesota Statutes Chapter 462, and the City of Crosslake Zoning Ordinance, you are hereby notified of a public hearing before the City of Crosslake Planning Commission/Board of Adjustment. Property ownerls have been notified according to MN State Statute 462 & published in the local newspaper. Please share this notice with any of your neighbors who may not have been notified by mail.

Information: Copies of the application and all maps, diagrams or documents are available at Crosslake City Hall or by contacting the Crosslake Planning & Zoning staff at 218-692-2689. Please submit your comments in writing including your name and mailing address to Crosslake City Hall or (crosslake.net).

Crosstake

STAFF REPORT

Property Owner/Applicant: James Reid & Coral C Price

Parcel Number(s): 14170614

Application Submitted: September 4, 2020

Action Deadline: November 3, 2020

City 60 Day Extension Letter sent / Deadline: N/A / N/A Applicant Extension Received / Request: N/A / N/A

City Council Date: N/A

Authorized Agent: N/A

Variance for:

• Lake setback of 44 feet where 75 feet is required to proposed septic system

- Side yard setback of 2 feet where 10 feet is required to proposed septic system
- Road right-of-way setback of 2 feet where 10 feet is required to proposed drainfield
- Dwelling setback of 4 feet where 10 feet is required to the septic tank
- Dwelling setback of 8 feet where 20 feet is required to the drainfield

To construct:

• A new type III septic system

Current Zoning: Shoreland District

Existing Impervious Coverage:

29.4%

Proposed Impervious Coverage:

29.4%

- A stormwater management plan was submitted with the variance application
- Septic design was submitted to Crow Wing County for approval pending variance outcome

Development Review Team Minutes held on July 14, 2020:

- Property is located on Rush Lake at 13130 Gladick Lane with a lake setback of 75 feet
- A septic tank is existing, additional tank is proposed, and a drainfield installation is proposed with a 5 to 10 foot setback from ROW
- A septic design is needed; if using existing tank a new compliance inspection will be required
- Survey to show setbacks of all septic components from the lake, side yard, dwelling, and ROW whether existing or proposed
- Design and implement a stormwater management plan (gutters, berm & rain gardens) to update any existing plan, which is required with all variance applications per Article 8, section 26-222, (2), l). When a wetland is being used the stormwater must be filtered to drinking standards before it can flow into any wetland
- Wetland Delineation is a requirement for a variance or a no wetland statement/letter
- A cut and fill calculation is required for a complete variance application
- Discussion on application requirements, procedure, schedule and the requirements/need for a complete application packet by the deadline date
- A Land Use Permit will be required prior to construction

Property owner was informed that before they could be placed on a public hearing agenda the following information is required:

- 1. A certificate of survey meeting the requirements outlined in Article 8, Sec. 26-222 of the City Land Use Ordinance
- 2. A cut and fill calculation
- 3. Wetland delineation or a no wetland statement/letter
- 4. A septic design
- 5. A complete Variance application with the \$500.00 public hearing fee

Parcel History:

- Gladick established in 1964
- May 1980 Enclose bottom portion of exiting deck
- May 1989 Demo existing retaining wall, replace and relocate retaining wall, add rock to prevent erosion
- October 2017 Water oriented accessory structure demo & replace existing 176 sf patio at shed
- May 30, 2017 EXPIRED septic compliance inspection

Agencies Notified and Responses Received:

County Highway Dept: N/A

DNR: No comments were received as of 10-12-2020

City Engineer: N/A Lake Association: N/A Township: N/A

Crosslake Public Works: No comments were received as of 10-12-2020

Crosslake Park, Recreation & Library: N/A

Concerned Parties: No comments were received as of 10-12-2020

POSSIBLE MOTION:

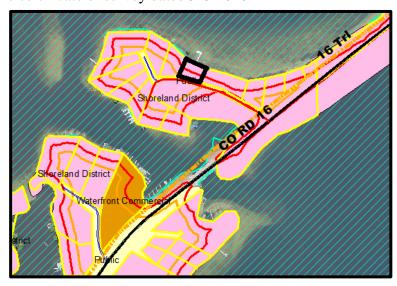
To approve/table/deny the variance to allow:

- Lake setback of 44 feet where 75 feet is required to proposed septic system
- Side yard setback of 2 feet where 10 feet is required to proposed septic system
- Road right-of-way setback of 2 feet where 10 feet is required to proposed drainfield
- Dwelling setback of 4 feet where 10 feet is required to the septic tank
- Dwelling setback of 8 feet where 20 feet is required to the drainfield

To construct:

• A new type III septic system

As shown on the certificate of survey dated 9-8-2020



SCALE IN FEET ON 22" x 34" SHEET

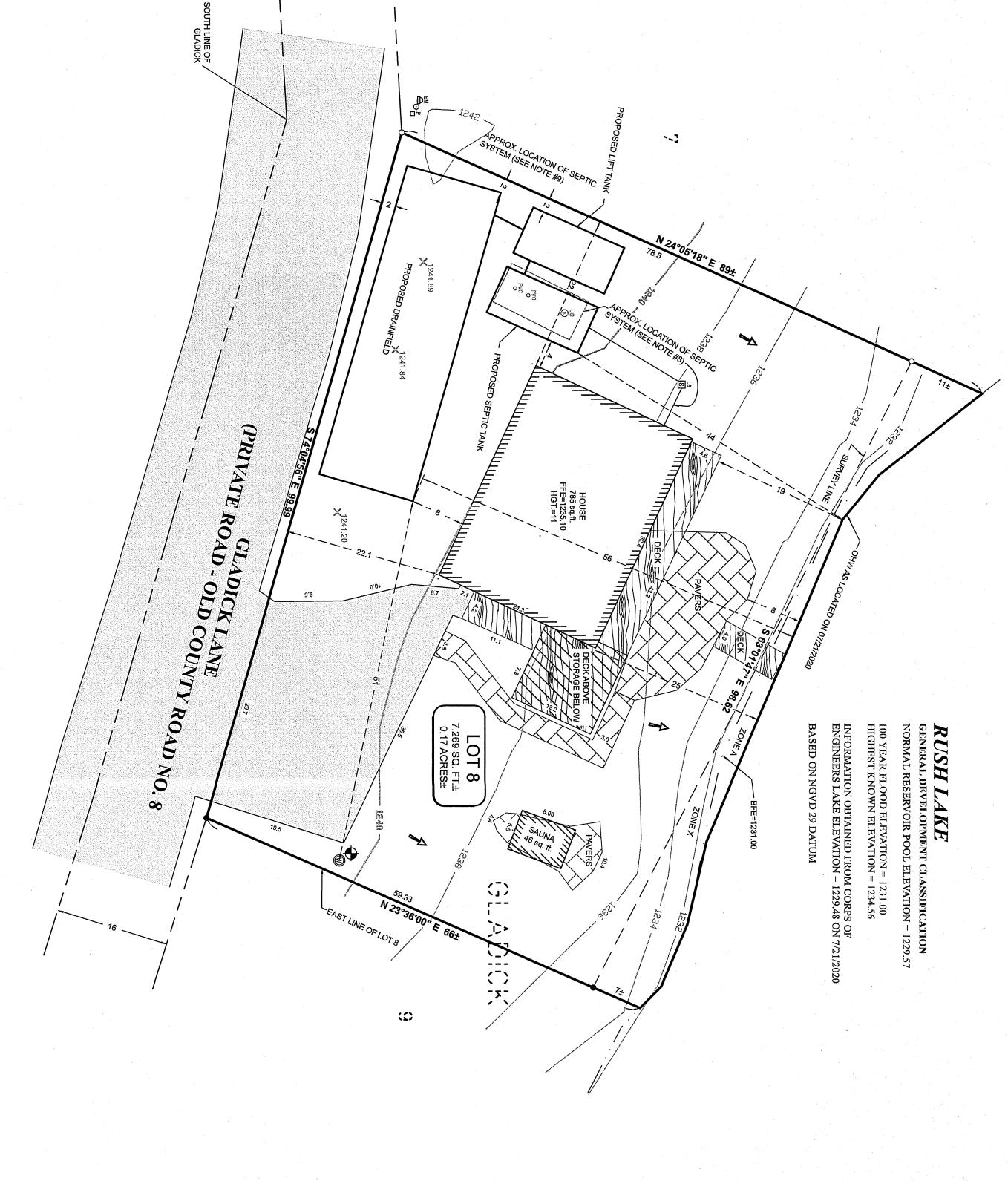
CERTIFICATE OF SURV

LOT 8, GLADICK, SECTION 17, TOWNSHIP 137 NORTH, RANGE 27 WEST, CROW WING COUNTY, MINNESOTA

LEGAL DESCRIPTION PER DOCUMENT NUMBER A-892013

Lot Eight (8), Gladick Addition, according to the plat thereof on file and of record in the office of the County Recorder in and for said County and State together with that portion of vacated roadway set out in the Resolution of the Council of the Village of North Crosslake and recorded in Book 22 of Miscellaneous, page 310, within the southerly extension of the boundaries of the east and west lines of said Lot Eight (8) and center life of said vacated roadway.

Together with all hereditaments and appurtenances belonging thereto, subject to the following exceptions: Subject to reservations, restrictions and easements of record, if any.



NOTES:

Contour interval as shown = 2 foot. Based on NGVD 29 datum. Contours shown have been obtained using standard survey topographic methodologies. Field located on 7/21/2020.
 Zoning for subject tract and surrounding tracts = "Shoreland District".
 There are no bluffs within surveyed property.
 Property is in "Zone X" and "Zone A" as per the FIRM, Flood Insurance Rate Map. "Zone A" definition: Areas of 100-year flood base elevations and flood hazard factors not determined. "Zone X" definition: Areas of minimal flooding.
 After applying the City of Crosslake setbacks per ordinance, there is no building envelope on subject property.

10.

Approximate location of proposed septic system per sketch prepared by Martin Joyce, Martin Joyce Septis Service, LLC.
Wetland delineation was completed on August 12, 2020, by Ben Meister, Meister Environmental, LLC. MN Certified Wetland Delineator #1031.

9.

The property address of subject parcel: 13130 Gladick Ln.

Approximate location of existing septic system per sketch prepared by Amy A. Wa WAS Design and Inspection, Inc.

Parcel ID of subject parcel: #14170614.

LEGEND

DENOTES EDGE OF EXISTING
BITUMINOUS

DENOTES EDGE OF EXISTING
PAVING STONES

DENOTES EDGE OF EXISTING
WOODEN DECKING
DENOTES EXISTING
INTERMEDIATE CONTOURS

DENOTES EXISTING INDEX
CONTOURS

DENOTES SPOT ELEVATION
(EXISTING GRADE)

DENOTES EXISTING UTILITY
POLE

DENOTES EXISTING ELECTRIC
METER

BENCHMARK:

TOP OF WELL

ELEV. = 1241.17

NVGD 29 DATUM

DENOTES MONUMENT FOUND

DENOTES IRON MONUMENT
SET MARKED BY LICENSE
No. 44881

o_{VC} ⊗co

DENOTES EXISTING SEPTIC VENT, SEPTIC CLEANOUT, & SEPTIC TANK LID

DENOTES EXISTING PHONE PEDESTAL & PHONE BOX

DENOTES EXISTING WELL

DENOTES EXISTING SEPTIC

ORIENTATION OF THIS BEARING SYSTEM IS BASED ON THE EAST LINE OF LOT 8, GLADICK TO HAVE AN ASSUMED BEARING OF N 23°36′00″ E.

	Sauna	Storage	Bituminous	Pavers	House		EXISTING	-	IMPERVIOU
2,137	46	141	772	393	785	(sq.ft.)	AREA	IMPERVIOUS	IMPERVIOUS CALCULATIONS
7,269	7,269	7,269	7,269	7,269	7,269	(94.11)	(en #)	Net Area	TIONS
29.4%	0.6%	1.9%	10.6%	5.4%	10.8%	(sq.ft)	Impervious	Percent	

SHEET 1	CERTIFICATE OF SURVEY	PROJECT MANAGER: CMH	PROJECT No.: 20160	DATE: 9/4/2020	DATE			I HEREBY CERTIFY THAT THIS SURVEY, PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER OR LAND
OF	JAMES PRICE PO BOX 27	CHECKED BY: CMH	C20160.dwg	SCALE: HORZ. <u>1"=10'</u>	9-8-2020	Added tank & drainfield dim. to lake	RJF	SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.
.	PEQUOT LAKES, MN 56472	DRAWN BY: SGB	FIELD BOOK: BOOK PG.	VERT. NONE				PATRICK A. TROTTIER PLS#41002 DATE 9-08-20 LIC. NO. 4/002



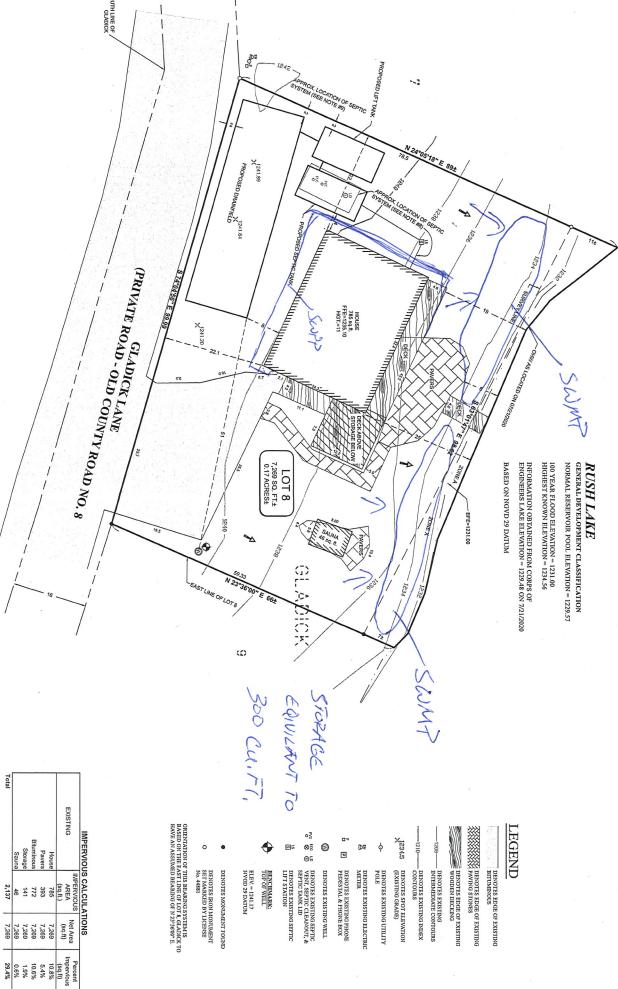
30206 Rasmussen Road Suite 1 P. O. Box 874 Pequot Lakes, MN 56472 218-568-4940 www.stonemarksurvey.com SCALE IN FEET ON 22" x 34" SHEET

LOT 8, GLADICK, SECTION 17, TOWNSHIP 137 NORTH, RANGE 27 WEST, CROW WING COUNTY, MINNESOTA **CIFICATE OF SURVEY**

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NOTES:

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There are no bluffs within surveyed property.

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Parcel ID of subject parcel: #14170614.
The property address of subject parcel: 13130 Gladick Ln.

Approximate location of existing septic system per sketch prepared by Amy A. Wannebo WAS Design and Inspection, Inc.

ז was completed on August 12, 2020, by Ben Meister, Meister Envi und Delineator #1031. on of proposed septic system per sketch prepared by Martin Joyce, Service, LLC.

ntal, LLC.

HS	CERTIFICATE OF SURVEY	PROJECT MANAGER:	PROJECT No.:	DATE:		REVISIONS	I HEREBY CERTIFY THAT THIS SURVEY, PLAN, SPECIFICATION, OR
1		СМН	20160	9/4/2020	DATE	DESCRIPTION B'	REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER OR LAND
_	JAMES PRICE		FILE NAME:	SCALE:			SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.
	PO BOX 27	BY: CMH	C20160.dwg	HORZ. 1"=10'			Patrick Atroffice
_	PEQUOT LAKES, MN 56472	DRAWN BY:	FIELD BOOK:				9 PATRICK A. TROTTIER PLS#41002 41009
							- 4-011 3030 GIRT





Bethany Soderlund

From: Greg Kossan <kossan@brainerd.net>
Sent: Thursday, September 10, 2020 9:28 AM

To:Bethany SoderlundSubject:Re: Price Septic Design

Hello Bethany, I talked to Martin and this design is for a Air B&B and so I approve of the design and concept as long as all the variances are approved ,, Greg Kossan

New Outlook Express and Windows Live Mail replacement - get it here: http://www.oeclassic.com/

---- Original Message -----

From: Bethany Soderlund < Bethany.Soderlund@crowwing.us>

To: Greg Kossan < kossan@brainerd.net >

Sent: 9/8/2020 10:23:11 AM **Subject:** Price Septic Design

Greg,

See attached design for Reid Price.

Have a great day!!

Bethany Soderlund Environmental Services Specialist

Land Services Department 322 Laurel Street, Suite 15 Brainerd, MN 56401 Office: (218) 824-1010 Direct (218) 824-1024 www.crowwing.us

Excellent Customer service is our top priority. Please let me know if I was helpful! Land Services Customer Survey

The County of Crow Wing does NOT perform legal or abstracting services, nor do we certify to any search results. Any information provided is for courtesy/reference purposes only and does NOT carry any warranties, including fitness for particular use. This email message, including any attachments, is for the sole use of the intended recipients and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by email and destroy all copies of the original message.

Property Owner: Reid & Coral Price

Mailing Address: PO Box 727

Date: 9/2/2020

State: MN City: Pequot Lakes Zip: 56472 Home Phone Number: Cell: Site Address: 13130 Gladick Lane State: MN Zip: 56442 City: Crosslake Driving directions if no address issued: Legal Description: Lot 8 Gladick Range: 27 Twp Name: Crosslake Sec: 17 Twp: 137 Parcel Number: 14170614 Lake/River Classification: GD Lake/ River: Rush Estimated Flow in Gallons per Day (GPD) Flow Data Class II Class III Class I Bedrooms Number of Bedrooms: 3 300 225 180 Dwelling Classification: I 218 450 300 System Type: III 375 256 600 4 5 450 294 GPD: 450 750 But oversizing the drainfield 900 525 332 6 Wells 7 1050 600 370 8 1200 675 408 Deep Well: Existing Deep Utilities May Need -Gas & Power to be Shallow Well: None Wells to be sealed (if applicable)? Setbacks Tank(s) to: Well +50 Drainfield to: Well 50 Sewer Line to well: +50 House 8 Air Test: No House 4 Property Line 2 Property Line 2 🎢 Variance Required Additional System Notes and Information: NEW SSTS Need variances approved for the system to be installed. License Number: 2129 Designer Name: Martin Joyce Address: Zip: City: State: Cell: 218-820-2621 Home Phone Number: E-Mail Address: joycem@brainerd.net I hereby certify that I have completed this work in accordance with all applicable requirements. Designer Signature: _ Date: 9/2/2020 Page: | of 10

Property Owner: Reid & Coral Price

Date: 9/2/2020

Designer's Initials:

Tank Sizing

A. Septic Tank Capacity: 2250 Gallons

Tank Type: 2 Compartments

Filter: Yes

Garbage Disposal/Basement Lift Station: Disposal and Lift

B. Pump Tank Capacity: 2250 Gallons (7080.2100)

a. Alarm Type: Electric

Time Dosl

Septic Tank Capacity					
Bedrooms	Minimum	GD/BL			
5 or less	1,500	2,250			
6 or 7	2,000	3,000			
8 or 9	2,500	3,750			

Soils

C. Depth to Restricting Layer: +6ft.

D. Native SSF:.83

(Perc. Rate [Optional]

MPI)

Enter GPD next to the type of system

Rock Trenches

E. 6 in, Trench Depth

 $GPD \times D = 0.0$ sq. ft.

Cubic Yards of Rock: 0 yds3

F. 12 in. Trench Depth

GPD \times D \times .8 = 0.0sq. ft.

Cubic Yards of Rock: 0 yds³

G. 18 in. Trench Depth

GPD \times D \times .66 = 0.0sq. ft.

Cubic Yards of Rock: 0 yds3

H. 24 in. Trench Depth

GPD \times D \times .6 = 0.0sq. ft.

Cubic Yards of Rock: 0 yds3

I. Divide (E-H) by Trench Width for lineal feet: 0.0 ÷

Chamber Trenches

J. Brand:

Dimensions of one chamber (L x W):

ft. ×

ft.

K. 6-11 in. Chamber Depth

 $GPD \times D = 0.0$ sq. ft.

L. 12 in. Chamber Depth

GPD \times D \times .8 = 0.0sq. ft.

M. Select from (K-L) if installing Chamber Trenches: 0.0

N. Divide (M) by Trench Width for lineal feet: $0.0 \div 0 =$

Lineal Feet

O. Total Chambers Needed (Round Up):

Chambers

Seepage/Pressure Beds

P. Seepage Bed

GPD \times D \times 1.5 = 0.0sq. ft.

a. Bed Dimensions

ft. ×

b. Cubic Yards of Rock

Bed Length \times Bed Width \times Rock Depth ft. $\div 27 = 0$ yds³

450 GPD × D = 373.5sq. ft. Roquines Q. Pressure Bed

a. Bed Dimensions

14ft. × 45ft. = 630 Installing

b. Cubic Yards of Rock

Bed Length × Bed Width × Rock Depth 1ft. \div 27 = 23 yds³

Additional System Notes and Information:

Installing as much drainfield as possible. Will be oversized for a 3 bedroom.

Time dosing the drainfield due to limited area and setback restrictions.

The time dosing will make this a type 3 system.

Page: 2 of 0

Property Owner: Reid & Coral Price

Date: 9/2/2020

Determine Pump Capacity

1) Gravity Distribution Pump Capacity Range: 10 - 45 GPM

*Skip to Pump Head Requirements if pumping to gravity

2) Pressure Distribution:

a) Number of laterals: 3

b) Lateral Size: 1.5in.

c) Perforation spacing: 3ft.

d) Check Table 4 to see the maximum number of perforations per lateral.

3) Lateral Length (choose):

a) End manifold: rock bed length: 45 - 2 ft. = 43ft.

b) Center manifold: rock bed length /2:

-1 ft. = -1 ft.

c) Choose 3a or 3b: 43ft.

4) Total Perforation Determination:

a) (3c): 43ft. \div (2c): 3ft. +1 = 15.33 Perforations / Lateral

b) (4a): $15.66 \times (2a)$: 3 = 46.98 Total Number of Perforations

c) Select perforation discharge from Table 1 = .74 GPM/Perf.

d) (4b): 46.98 × (4c): 0.74 GPM/Perf. = 34.77 GPM

PUMP HEAD REQUIREMENTS

5) Elevation difference:

a) Elevation difference between pump and point of discharge 8ft.

b) If pumping to a pressure distribution system, (5a) + 5 = 13 ft.

c) Choose 5a if pumping to gravity or 5b for pressure: 13ft.

6) Friction loss:

a) Select a value from Table 2: 2.06ft. / 100 ft. of pipe

b) Pipe length to drainfield: $10 \text{ft.} \times 1.25 = 12.5 \text{ft.}$

c) (6a): $2.06 \times (6b)$: $12.5 \div 100 = 0.26$ Total Friction Loss

7) Drainback:

a) Actual Pipe length 10ft. \times .17 gal/ft. (Table 3) = 1.7 gal

8) (5c): 13ft. + (6c): 0.26ft. = 13.26 Total Head Required

9) Minimum Pump Size 34 GPM (4d) & 13ft. of dynamic head (8)

Designer's Initials:

Table 1				
Perforation Discharge (GPM/perf.)				
Ft. of	7/32"	1/4"		
Head	Perf	Perf		
1.0	0.56	0.74		
2.0	0.80	1.04		

Use 1.0 for single homes, 2.0 for everything else

,	Table 2		
Friction L	oss in Pla	astic Pi	pe
Flow (GPM)	1.5"	2"	3"
20	2.47	0.73	0.11
25	3.73	1.11	0.16
30	5.23	1.55	0.23
35	6.96	2.06	0.30
40	8.91	2.64	0.39
45	11.07	3.28	0.48
50	13.46	3.99	0.58
55		4.76	0.70
60		5.60	0.82
65		6.48	0.95
70		7.44	1.09

Table 3			
Volume of Liquid in Pipe			
Pipe Diameter	Gal/Ft.		
1.25 in.	0.078		
1.5 in.	0.11		
2.0 in.	0.17		

Table 4				
Max P	erforatio	ns/Later	al	
Perf.	1.25"	1.5"	2"	
Spacing	Pipe	Pipe	Pipe	
2.5 ft.	14	18	28	
3 ft.	13	17	26	
3.3 ft.	12	16	25	
4 ft.	11	15	23	
5 ft.	10	14	22	

Page: 3 of 0

Property Owner: Reid & Coral Price

Date: 9/2/2020

Designer's Initials:

Please record the depths of all horizons, redoximorphic features, restricting layers, and saturated soils. Include all chroma and hue values.

#1 Proposed Site

Depth (in.)	Texture	Color			
0-6	Loamy Sand	10YR 3/2			
6-40	Sand	10YR 4/4			
40-60	Sand	10YR 5/4			
60-72	Loamy Sand	10YR 6/4			

#1 Alternate Site

Depth (in.)	Texture	Color
,		
		3

#2 Proposed Site

4	rroposed site						
	Depth (in.)	Texture	Color				
		1					

#2 Alternate Site

7 titoriate Site					
Depth (in.)	Texture	Color			
7					
	*	į.			

Soil Sizing Factors/Hydraulic Loading Rates							
Perc. Rate	Texture	SSF	HLR	Perc. Rate	Texture	SSF	HLR
<0.1	Coarse Sand			16 to 30	Loam	1.67	0.60
0.1 to 5	Sand	0.83	1.20	31 to 45	Silt Loam	2.00	0.50
0.1 to 5	Fine Sand	1.67	0.60	46 to 60	Clay Loam	2.20	0.45
6 to 15	Sandy Loam	1.27	0.79	> 60	Clay Loam	****	0.24

Description of Soil Treatment Areas						
	Propos	ed Site	Alternate Site			
Disturbed Areas?	N	0				
Compacted Areas?	N	lo				
Flooding Potential?	N	lo				
Run on Potential?	No					
Limiting Layer Depth	Proposed #1	Proposed #2	Alternate #1	Alternate #2		
	72"			(
Slope % and Direction	0%					
Landscape Position	Flat Lawn Sand 0.83					
Vegetation Types						
Soil Texture						
Soil Sizing Factor			Selec	t One		

Martin Joyce Septic Service, LLC Septic Design, Inspection, and Repair 27604 Cty. Rd. 3 ~ Merrifield, MN 56465 Cell (218) 820-2621 Fax (218) 765-4385

Reid & Coral Price Time Dose Drainfield Construction Notes

PIN 14170614 13130 Gladick Lane Crosslake, MN 56442

The existing 3 bedroom house is currently on a holding tank. A Class 1-3 bedroom house is sized for 450 GPD. Over sizing the new drainfield max out the available area. Propose reducing the daily flow to this drainfield to 70% or 300 GPD by installing time dosing. Time dosing this drainfield will make this system a Type 3. The 2250 gal lift tank will have reserve capacity when flows are over 300 GPD and space flow to the drainfield evenly. This will help with treatment and extending the life of the system. Protect the drainfield area from vehicle traffic.

Variances will be needed for:

Lake to SSTS of 55' instead of 75' House to Tanks of 4 instead of 10' House to Drainfield of 8' instead of 20'

P/L and ROW to Drainfield of 2' instead of 10'.

The proposed drainfield area is sized for Approx. 750 GPD, less a safety reduction in the actual flow to daily dosing of approximately 300 GPD.

• Dosing the drainfield at 77 gal. per cycle, 4 times per day, less approximately 2 gallons of drainback per cycle would equal approx. 300 GPD to the drainfield.

• The pump should have a rundown performed on it to calibrate how long the pump needs to run to pump out approximately 77 gallons. Please contact Martin Joyce if you have questions on this.

• An alarm will be installed on the lift tank to notify the owners their water use is getting close to meeting peak reserve levels in the lift tank. The alarm will be set up so that if it sounds, there will be enough capacity to keep using the system. Just limit the water use until some time passes and water is dosed to the drainfield. Or get the tanks pumped.

• The compartmented septic tank with a filter will keep the water going into the lift and into drainfield clean. This will help extend the life of the drainfield.

Regular pumping maintence will be needed. Tanks may need to be pumped prior to a
big event at the house. An event counter and elapsed time meter will be installed in the
control panel for the lift pump. This information needs to be recorded monthly and sent
to the county annually.

• Install control panel (SJE Rhombus Simplex Time Dose with counter panel - TD1W114H3A6A8AC10E) a minimum of 3' to 4' above final grade on a solid post(s). The electrical conduit into the lift tank should be 2". Install a plug in under the control panel or near the lift tank for the pump. Do not cut the plug in off the pump.

Please feel free to contact me with any questions.

Martin Joyce Septic Service, LLC

27604 County Road 3, Merrifield, MN 56465

Sentic System Management Plan

	Septie System Wil	magement	LIAII		
Property Owner:	Reid & Coral Price	Phone:		Date:	9/2/20
Mailing Address:	PO Box 727	City:	Pequot Lakes	Zip:	56472
Site Address:	13130 Gladick Lane	City:	Crosslake	Zip:	56442
performa must be p	his management plan will identify the operation ance of your septic system. Some of these activit performed by a licensed septic service provider. System Designer: check every	and maintenance ies must be perfo	rmed by you, the homeowner.	Other tasks	
1	Local Government: check every mo	onths onths	My system needs to b every <u>36</u> m		;d
	Homeowner Management Tasks (performed in Leaks - Check (look,listen) for leak Surfacing sewage - Regularly check Effluent filter - Inspect and clean tw Alarms - Alarm signal when there is Event counter or water meter - Mor	s in toilets and dr for wet or spong ice a year or mon s a problem: cont	ipping faucets. Repair leaks pro sy soil around your soil treatme re act Service Provider any time a	nt area.	ıals
" I unc	Check and clean the in-tank effluent Check the sludge/scum layer levels Recommend if tank should be pump Pump all compartments of septic tan Check inlet and outlet baffles Clean drainfield laterals (if it applie Check the drain field effluent levels Check the pump and alarm system f Check wiring for corrosion and func Check dissolved oxygen and effluen Provide home owner with list of res Replacement system for this residence, a se	in all septic tanks ed nk at least every 3 s) in the rock layer functions (if it applies at temperature in ults and any action condary site has a ate and maintain to	olies)) tank on to be taken not been identified. the sewage treatment system on		
notify protec	rty, utilizing the Management Plan. If requirement the permitting authority and take necessary coret the reserve area for future use as a soil treatment.	rective actions. If	I have a new system, I agree to	promptly o adequately	/
	Property Owner Signature:	<u></u>	Date:		
	Designer Signature:	The state of the s	Date:		

Permitting Authority Signature:

Date:

Map Unit Description (MN)

Crow Wing County, Minnesota

[Data apply to the entire extent of the map unit within the survey area. Map unit and soil properties for a specific parcel of land may vary somewhat and should be determined by onsite investigation]

D77D--Graycalm-Grayling complex, 12 to 25 percent slopes

Graycalm

Extent: 25 to 65 percent of the unit Landform(s): rises on outwash plains Slope gradient: 12 to 25 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 2 Wind erodibility index (WEI): 134 Kw factor (surface layer) .15

Kw factor (surface layer) .15
Land capability, nonirrigated 4s

Hydric soil: no Hydrologic group: A

Potential for frost action: low

Representative soil profile:	Texture	Permeability	Available water capacity	pН
A 0 to 4 in	Loamy sand	rapid	0.35 to 0.43 in	4.5 to 5.5
Bw1 4 to 20 in	Loamy sand	rapid	1.29 to 1.61 in	5.0 to 6.0
Bw2 20 to 31 in	Sand	rapid	0.44 to 0.66 in	5.0 to 6.0
E and Bt 31 to 79 in	Sand	rapid	2.38 to 3.81 in	5.5 to 6.5

Grayling

Extent: 29 to 45 percent of the unit

Landform(s): rises on outwash plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 2

Slope gradient: 12 to 25 percent

Wind erodibility index (WEI): 134

Parent material: outwash

Kw factor (surface layer) .20

Land capability, nonirrigated 4s

Flooding: none

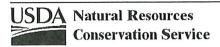
Hydric soil: no

Hydrologic group: A

Drainage class: excessively drained Potential for frost action: low

Representative soil p	orofile:	Texture	Permeability	Available water capacity	рН
A 0 to	8 in	Loamy sand	rapid	0.63 to 0.87 in	5.1 to 6.5
Bw 8 to	47 in	Sand	rapid	1.95 to 4.29 in	5.1 to 6.5
BC 47 to	79 in	Sand	rapid	1.59 to 2.23 in	5.1 to 6.5

This report provides a semitabular listing of some soil and site properties and interpretations that are valuable in communicating the concept of a map unit. The report also provides easy access to the commonly used conservation planning information in one place. The major soil components in each map unit are displayed. Minor components may be displayed if they are included in the database and are selected at the time the report is generated.



This report shows only the major soils in each map unit

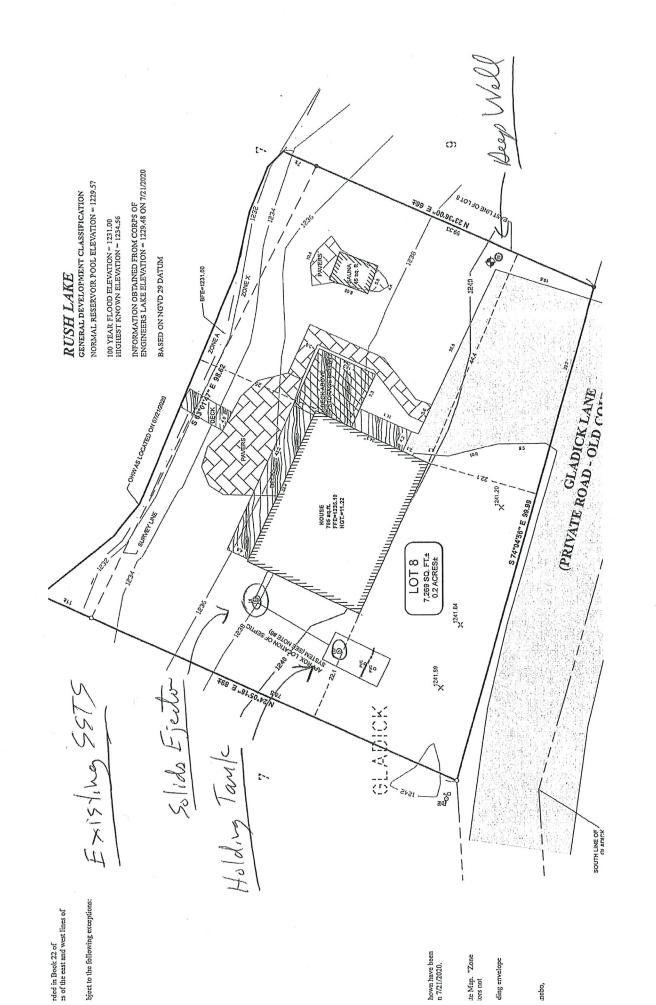
Tabular Data Version: 10
Tabular Data Version Date: 09/19/2016

Page 1 of 1

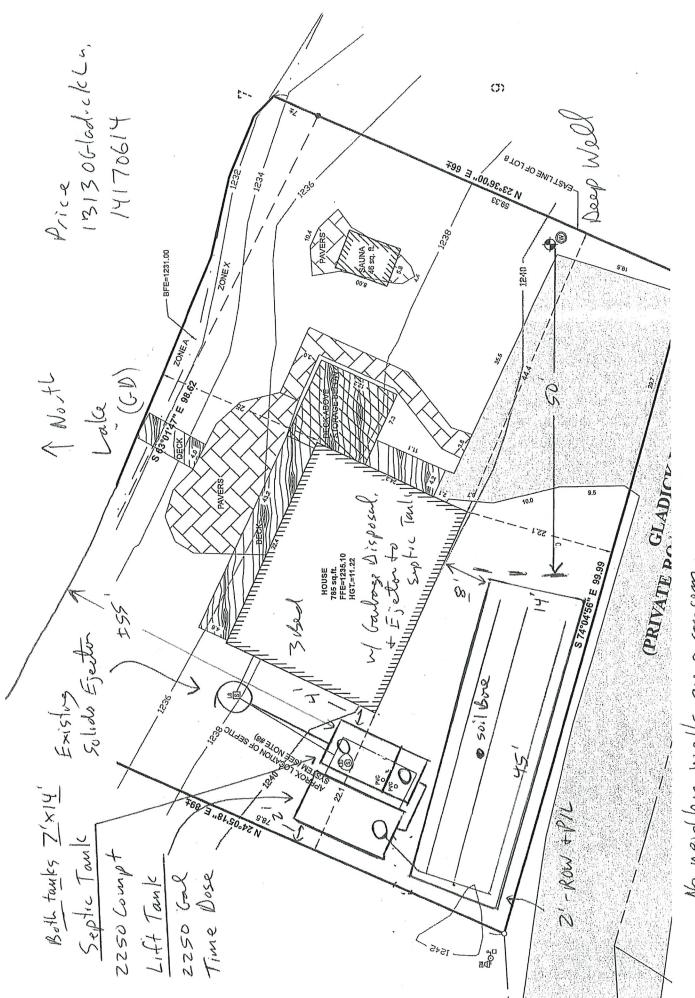


These data are provided on an "AS-IS" basis, without warranty of any type, expressed or implied, including but not limited to any warranty as to their performance, merchantability, or fitness for any particular purpose.

ECROWWING 80410



9 of 10



No neighbor wells are a concern.



Variance Application
Planning and Zoning Department
37028 County Rd 66, Crosslake, MN 56442
218.692.2689 (Phone) 218.692.2687 (Fax) www.cityofcrosslake.org

Receipt Number: 475670	Permit Number:	2010161
Property Owner(s): Thes + Corke Price James	Reid & C	oral C Price
Mailing Address: PO BOX 727 PEQUOT CAKES MY 50	<u>Va</u> رCheck appl	<u>riances</u> licable requests)
Site Address: 13/30 GLADICK LN, Crosslake, MN 56442	☐ Lake/Riv	
Phone Number: 218-83(-8088		rstem should be 75' ght-of-Way Setback rstem should be 10'
E-Mail Address: REW C THELOUDS LANDSCAPING-CON	2''for septic sy Bluff Se	
Parcel Number(s): 14170614	X Side Yar	
Legal Description: LOT 8 GLADIER	2' for septic syst Wetland	em should be 10' Setback
Sec Twp 137 Rge 262728	X Septic Ta	
Lake/River Name: PUSH LAKE		rainfield Setback
Do you own land adjacent to this parcel(s)? YesNo		ous Coverage
If yes list Parcel Number(s)	29.4% where 25°	
Authorized Agent:	│ │ □ Building	Height
Agent Address:	☐ Patio Siz	ce
Agent Phone Number:		
Signature of Property Owner(s)	Do	nte 9/4/20
Signature of Authorized Agent(s)	Da	
 All applications must be accompanied by a signed Certificate of Su Fee \$500 for Residential and Commercial Payable to "City of Cros No decisions were made on an applicant's request at the DRT meet after DRT does not constitute approval. Approval or denial of appl Planning Commission/Board of Adjustment at a public meeting as City of Crosslake Land Use Ordinance. 	rvey slake" ing. Submittal of ications is determ	an application ined by the
For Office Use: Application accepted by Lake Class Septic: Compliance SSTS Design 9	Land Use I	District_SD
Lake Class Septic: Compliance SSTS Design	zkozo Install	ation



Practical Difficulty Statement

Pursuant to City of Crosslake Ordinance Article 8 – Variances may be granted when it is found that strict enforcement of the Land Use Ordinance will result in a "practical difficulty".

Please answer the following questions regarding the "practical difficulty" for your variance request.

1.	Is the Variance request in harmony with the purposed and intent of the Ordinance? Yes ☑ No □ Why: Defer to the Planning Commission/Board of Adjustment
2.	Is the Variance consistent with the Comprehensive Plan? Yes ☑ No □ Why: Defer to the Planning Commission/Board of Adjustment
3.	Is the property owner proposing to use the property in a reasonable manner not permitted by the Land Use Ordinance? Yes No D Why: WE WOULD LAKE TO INSTALL A SEPIC SYSTEM & THE LOT 15 Too SMICE. USE 75 Respection
4.	Will the issuance of a Variance maintain the essential character of the locality? Yes No Why: ALL LOTS IN NEICHBORHOOD ARE NON CONFORMING AND CLOSE TRETTE DHW and Road
5.	Is the need for a Variance due to circumstances unique to the property and not created by the property owner? Yes No D Why: WE PURCHASED AS IS. NOWLD WAE A REAC SERTICE SYSTEM.
6.	Does the need for a Variance involve more than economic considerations? Yes No D Why: No D Why: WOULD LIKE A FYILL SEPTICE SYSTEM Cristing holding tunk does not treat efficient, a Time-dosed drawfish will treat Sewage and pose less of a threat to the water.



City of Crosslake Planning Commission/Board of Adjustment

FINDINGS OF FACT SUPPORTING / DENYING A VARIANCE REQUEST

A Variance may be granted by the Planning Commission/Board of Adjustment when it is found that strict enforcement of the Land Use Ordinance will result in a "practical difficulty" according to Minnesota Statute Chapter 462. The Planning Commission/Board of Adjustment should weigh each of the following questions to determine if the applicant has established that there are "practical difficulties" in complying with regulations and standards set forth in the Land Use Ordinance.

there are "practic Land Use Ordina	cal difficulties" in complying with regulations and standards set forth in the nce.
1. Is the Varianc Yes Why:	e request in harmony with the purposes and intent of the Ordinance? No
2. Is the Variance Yes Why:	e consistent with the Comprehensive Plan? No
3. Is the property the Land Use Yes Why:	owner proposing to use the property in a reasonable manner not permitted by Ordinance? No

4.		iance of a Varia No	nce maintain th	e essential chara	acter of the locality	7?
	Is the need e property ov Yes Why?		due to circumst	ances unique to	the property and r	not created by
6.		ed for a Varian No	ce involve more	than economic	considerations?	