City Hall: 218-692-2688

Planning & Zoning: 218-692-2689

Fax: 218-692-2687



37028 County Road 66 Crosslake, Minnesota 56442 www.cityofcrosslake.org

#### CITY OF CROSSLAKE

# PLANNING COMMISSION/BOARD OF ADJUSTMENT June 26, 2020 9:00 A.M.

Crosslake City Hall 37028 County Road 66, Crosslake MN 56442 (218) 692-2689

# **PUBLIC HEARING NOTICE**

Applicant: Randal L Darling Rev. Living Trust

**Authorized Agent:** Wes Hanson Builders

Site Location: 14551 Wildwood Dr., Crosslake, MN 56442 on Tiff Lake-NE

#### Variance for:

- Lake setback of 101 feet where 150 feet is required to proposed structure
- Increase in patio size of 591 where 400 is allowed in the Shore Impact Zone 2 (SIZ2)

#### To construct:

- 3562 square foot dwelling with an attached garage (2607sf), covered entrance (100sf), and deck (855sf)
- 591 square foot patio

**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 owners 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 (<a href="mailto:crosslake.net">crosslake.net</a>).

# Posslake

#### STAFF REPORT

Property Owner/Applicant: Randal L Darling Rev. Living Trust

Parcel Number(s): 14210628

Application Submitted: May 11, 2020

Action Deadline: July 9, 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:** Wes Hanson Builders

#### **Variance for:**

• Lake setback of 101 feet where 150 feet is required to proposed structure

• Increase in patio size of 591 where 400 is allowed in the Shore Impact Zone 2 (SIZ2)

#### To construct:

- 3562 square foot dwelling with an attached garage (2607sf), covered entrance (100sf), and deck (855sf)
- 591 square foot patio

**Current Zoning:** Shoreland District

# **Existing Impervious Coverage:**

**Proposed Impervious Coverage:** 

0.0%

7.9%

- A stormwater management plan was submitted with the variance application
- A septic design was approved by the county meeting all requirements

### **Development Review Team Minutes held on 3-10-2020:**

- Property is located on Tiff Lake on Wildwood Drive with a lake setback of 150 feet
- The proposed dwelling structure to be approximately 80 feet from the OHW of Tiff Lake
- Elevation for Tiff lake of 1230.7 to be met, landscape items in relation to possible variance needs and any variance(s) approved are good for 2 years
- All setbacks shall be measured to the vertical side of the structure. No part of the structure, such as eaves, can overhang or reduce such setback by more than three feet (Sec. 26-308)
- If the eaves exceed 36" the setback and the impervious coverage shall be measured from the dripline
- Staff suggested moving the structure back into the building envelope as much as possible to decrease the lake setback request
- Impervious maximum of 25% and if impervious exceeds 20% a Shoreline Rapid Assessment Model form will be completed (Sec. 26-518)

- The parcel is located within a plat and/or an organization that may have restrictions, you would need to verify those restrictions and clarify that your request is allowed
- 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
- A septic design will be needed and applicant can sign a septic winter window agreement, staff suggested an email from designer to verify that a variance will not be needed for the system
- A wetland delineation done by Ben Meister dated 11-16-19 is on file
- A grade and elevation illustration along with a cut and fill calculation is required
- 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. Grade and Elevation illustration, along with the Cut and fill calculations
- 3. Wetland delineation is on file
- 4. A septic design
- 5. A complete Variance application with the \$500.00 public hearing fee

# **Parcel History:**

- Wildwood Acres established in 1982
- 2015 FEMA update of the Crow Wing County floodplains included wetland adjacent to Tiff Lake as a part of the lake moving the setback further into the property, thus shrinking the building envelop significantly, from the original Plat
- Tiff Lake Natural Environment (NE) lake with a structural setback of 150 feet

# **Agencies Notified and Responses Received:**

County Highway Dept: N/A

**DNR:** No comments were received as of 6-15-2020

City Engineer: N/A

**Lake Association:** No comments were received as of 6-15-2020

**Township:** N/A

Crosslake Public Works: No comments were received as of 6-15-2020

Crosslake Park, Recreation & Library: N/A

**Concerned Parties:** No comments were received as of 6-15-2020

#### **POSSIBLE MOTION:**

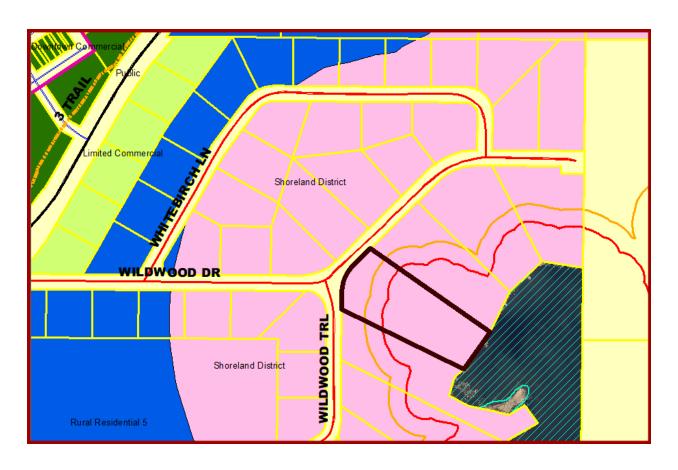
To approve/table/deny the variance to allow:

- Lake setback of 101 feet where 150 feet is required to proposed structure
- Increase in patio size of 591 where 400 is allowed in the Shore Impact Zone 2 (SIZ2)

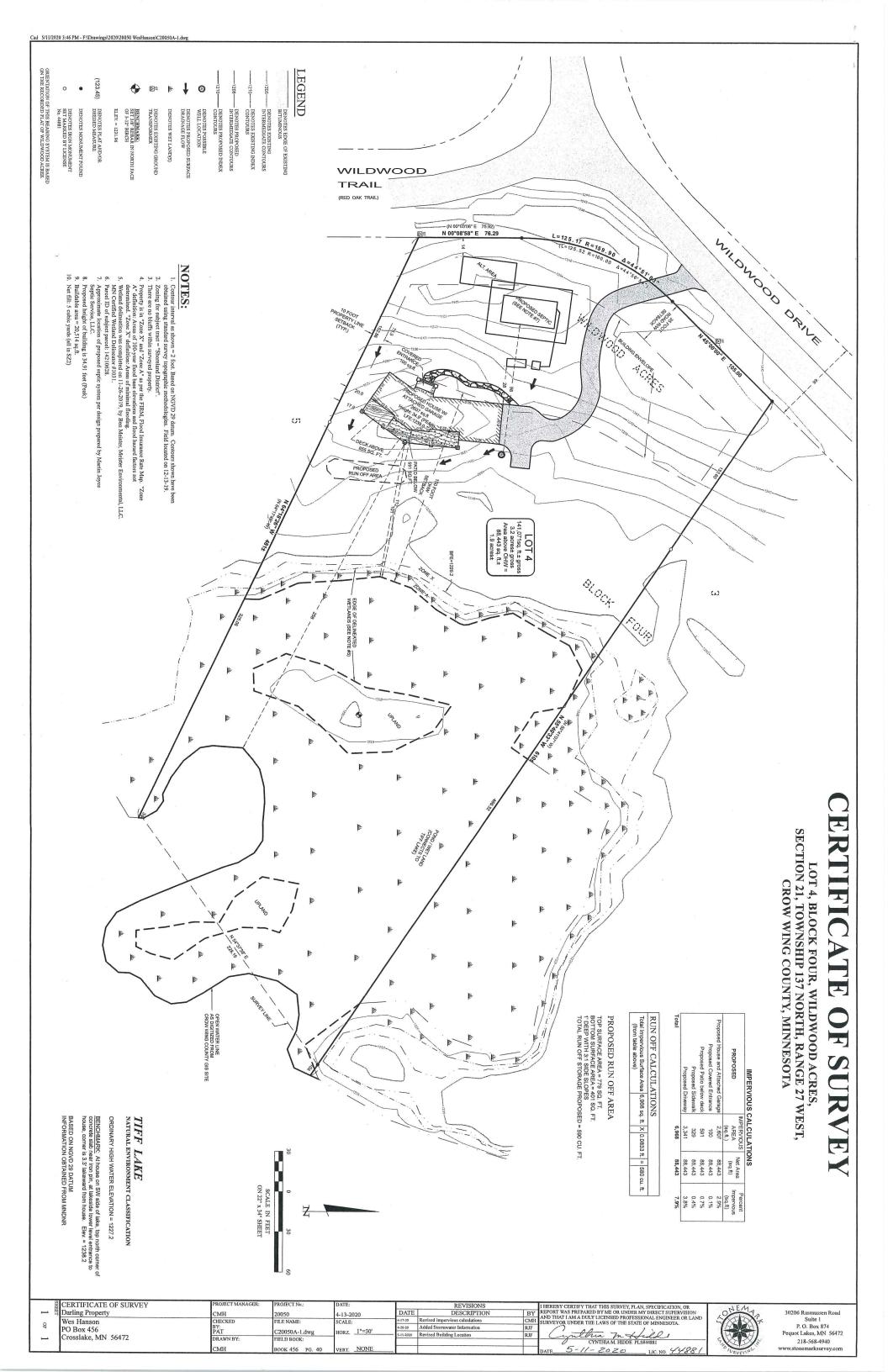
Increase in patio size of 591 where 400 is allowed in the Shore Impact Zone 2 (SIZ2)To construct:

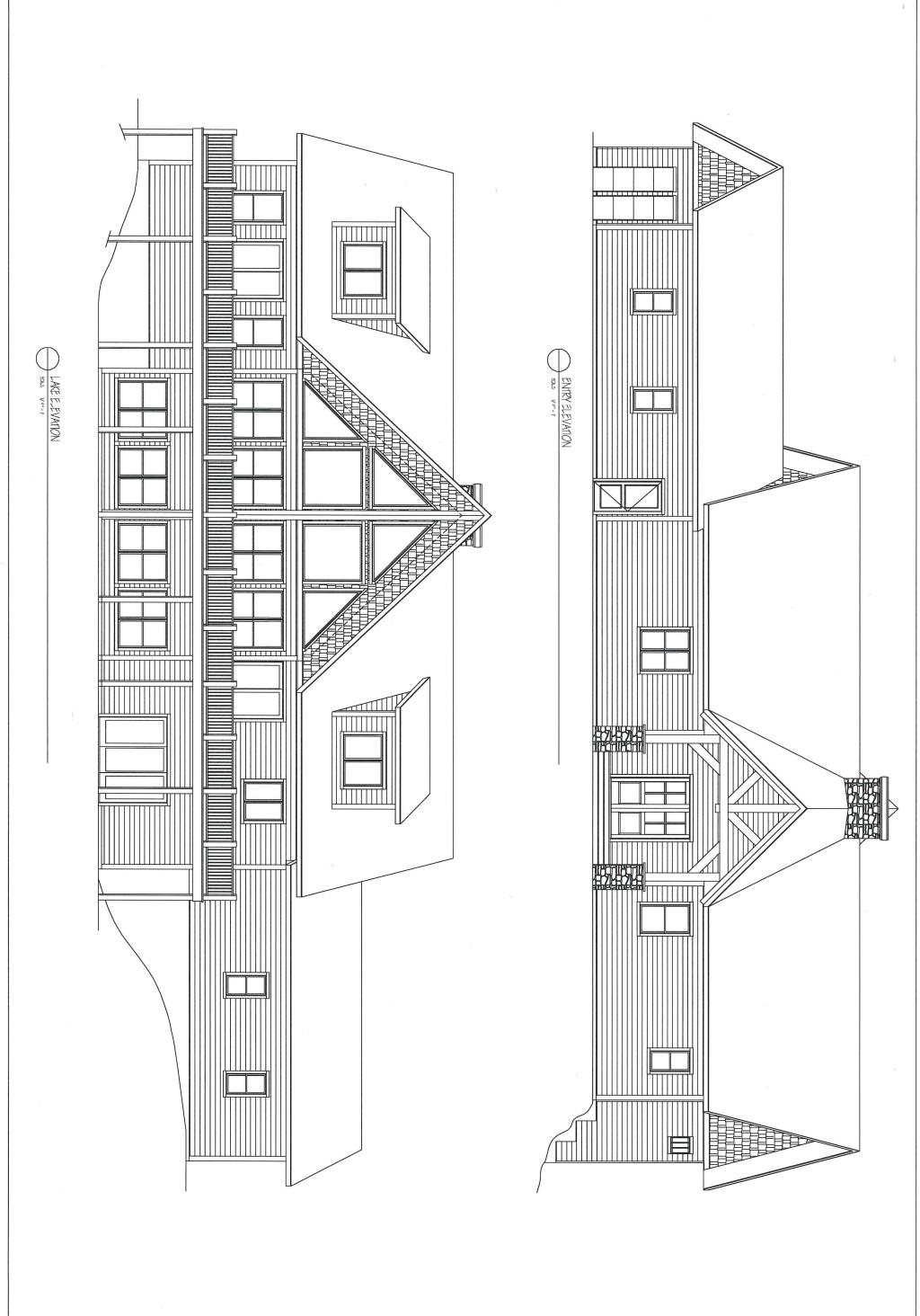
- 3562 square foot dwelling with an attached garage (2607sf), covered entrance (100sf), and deck (855sf)
- 591 square foot patio

As shown on the certificate of survey dated 5-11-2020









DARLING PROJECT

RANDY + JAQLYN DARLING

14551 WILDWOOD DRIVE - CROSSLAKE, MN 56442

ELEVATIONS

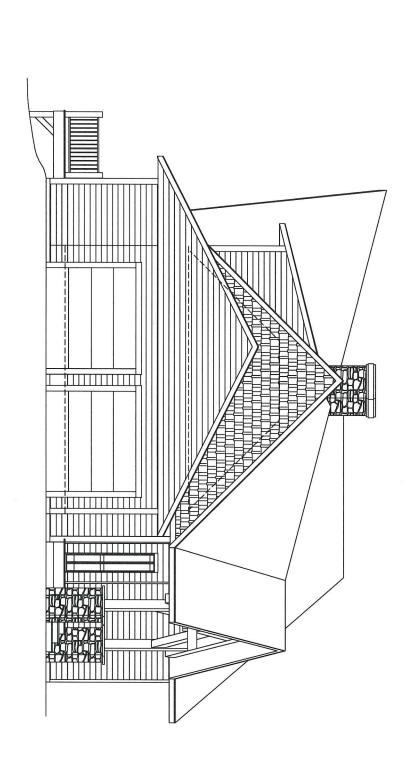
DRIVE - CROSSLAKE, MN 25442

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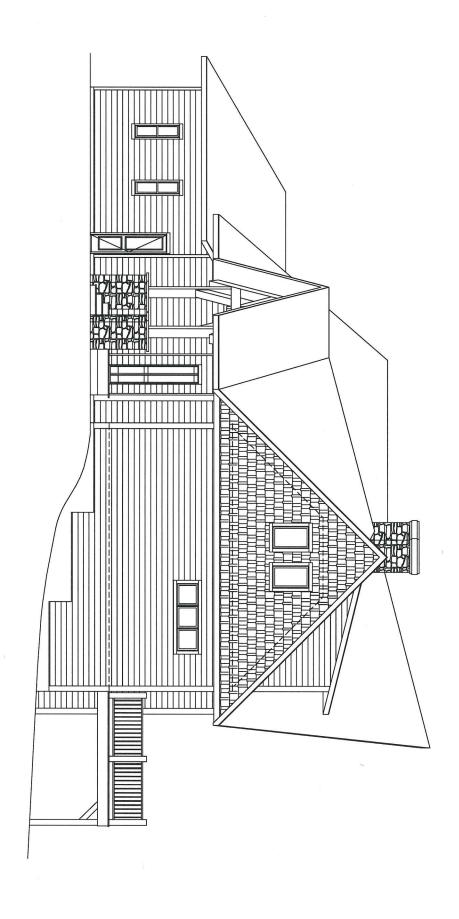




34103 COUNTY ROAD 3 CROSSLAKE, MN 56442 PHONE: (218) 692-1760 FAX: (218) 692-1770



SIDE ELEVATIONS



X		DARLING PROJECT	DATE:	4.15.20	DATE	REV#	ævigons descrition	ЭY
	N K	RANDY + JAQLYN DALING	SCALE:	1/4" - 1'	02.23.15	#	REVISION I	
œ	10 4		DRAWN 54:	IAVS				
÷	No	14551 WILDWOOD DRIVE - CROSSLAKE, MN 56442	CHECKED BY:	NWS				
4		ELEVATIONS CONT	JOB NUMBER					



# **Bethany Soderlund**

From: Greg Kossan < kossan@brainerd.net> Sent: Sunday, April 12, 2020 4:58 PM

To: **Bethany Soderlund Subject:** Re: Darling Septic Design

Thanks Bethany I hope you did too! Darling septic design 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: kossan@brainerd.net < kossan@brainerd.net>

Sent: 4/10/2020 4:01:46 PM Subject: Darling Septic Design

Greg,

See attached septic design for your approval.

Have a happy and wonderful Easter!

# **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.



Our Vision: Being Minnesota's favorite place.

Property Owner: Randal Darling

Date: 4/9/2020

Mailing Address: 13376 W Marigold Ct

City: Andover

State: MN

Zip: 55304

Home Phone Number:

Cell:

Site Address: 14551 Wilwood Dr

City: Crosslake

State: MN

Zip: 56442

Driving directions if no address issued:

Twp: 137

**APPROVED** 

By Greg Kossan at 11:04 am, Apr 13, 2020

Sec: 21

Legal Description: Lot 4 Block 4 Wildwood Acres

Range: 27

Twp Name: City of Crosslake

Parcel Number: 14210628

Lake/ River: Tiff

Lake/River Classification: NE

Flow Data

Number of Bedrooms: 3 Dwelling Classification: I

System Type: I

GPD: 450

Estimated Flow in Gallons per Day (GPD) Class I Class II Bedrooms Class III 2 300 225 180 3 450 300 218 4 600 375 256 5 750 450 294 6 900 525 332 7 1050 600 370 8 1200 675 408

Wells

Deep Well: Proposed Deep

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 +10

House +20

Air Test: No

Property Line +10

Property Line +10

Additional System Notes and Information: NEW CONSTRUCTION

Propose a 3 bedroom house with a basement lift.

Designer Name: Martin Joyce

License Number: 2129

Address:

City:

State:

Zip:

Home Phone Number:

Cell: 218-820-2621

E-Mail Address: joycem@brainerd.net

I hereby certify that I have completed this work in accordance with all applicable requirements.

Designer Signature:

Date: 4/9/2020

Page: / of /0

Property Owner: Randal Darling

Date: 4/9/2020

Designer's Initials:

# **Tank Sizing**

A. Septic Tank Capacity: 2250 Gallons

Tank Type: 2 Compartments

Filter: No

Garbage Disposal/Basement Lift Station: Lift Only

B. Pump Tank Capacity: 500 Gallons (7080.2100)

a. Alarm Type: Electric

# Soils

C. Depth to Restricting Layer: 2.5ft.-

D. Depth of Clean Sand at Upslope Edge: 1ft. -

E. Native SSF: 1.67

(Perc. Rate [Optional]

MPI)

F. Land Slope: 6%

# **Rock Bed Dimensions**

G. GPD  $450 \times .83 = 373.5$ sq. ft.

H. Rock Bed Width: 10ft.

I. Rock Bed Length: 40ft.

J. Cubic Yards of Rock (H)  $\times$  (I)  $\times$  Rock Depth 1ft.  $\div$  27 = 14 yds<sup>3</sup>

# **Mound Size Calculations**

- K. AWR (from table): 2 × Rock Bed Width (H): 10 = 20ft. (Absorption Width)
- L. Absorption Width (K): 20ft. Rock Bed Width (H): 10ft. = 10ft. (Downslope Minimum)
- M. Depth of washed sand (D): 1+1 ft. of rock + 1 ft. of cover = 3ft. (Upslope Height)
- N. Enter upslope berm value from Berm Multiplier Table: 3.23
- O. Upslope berm multiplier (N):  $3.23 \times \text{upslope height (M)}$ : 3 = 9.69 ft. (Upslope Width)
- P. Rock bed width (H): 10ft. × land slope (F): 6% × 0.01 = 0.6ft. (Drop in Elevation)
- Q. Upslope height (M): 3ft. + drop in elevation (P): 0.6ft. = 3.6ft. (Downslope Height)
- R. Enter downslope berm value from Berm Multiplier Table: 5.26
- S. Downslope height (Q): 3.6 × Downslope berm multiplier (R): 5.26 = 18.94 ft. (Downslope Width)
- T. Select the larger number of Step (L) and Step (8): 19ft.
- U. Upslope width (O): 9.69 + rock bed width (H): 10 + downslope width (T): 19 = 38.69ft. (Mound Width)
- V. Upslope width (O): 9.69 + rock bed length (I): 40 + Upslope width (O): 9.69 = 59.38ft. (Mound Length)
- W. Final Mound Dimensions Are: Width (U): 38ft. by Length (V): 59ft.

				Bern	n Multij	olier Tab	le					10 -1	
Land Slope→	0%	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%
Upslope Berm ↓ 3/1	3.00	2.91	2.83	2.75	2.68	2.61	2.54	2.48	2.42	2.36	2.31	2.26	2.21
4/1	4.00	3.85	3.70	3.57	3.45	3.33	3.23	3.12	3.03	2.94	2.86	2.78	2.70
5/1	5.00	4.76	4.54	4.35	4.17	4.00	3.85	3.70	3.57	3.45	3.33	3.23	3.12
6/1	6.00	5.66	5.36	5.08	4.84	4.62	4.41	4.23	4.05	3.90	3.75	3.61	3.49
7/1	7.00	6.54	6.14	5.79	5.46	5.19	4.93	4.70	4.49	4.30	4.12	3.95	3.80
Downslope Berm ↓ 3/1	3.00	3.09	3.19	3.30	3.41	3.53	3.66	3.80	3.95	4.11	4.29	4.48	4.69
4/1	4.00	4.17	4.35	4.54	4.76	5.00	5.26	5.56	5.88	6.25	6.67	7.14	7.69
5/1	5.00	5.26	5.56	5.88	6.25	6.67	7.14	7.69	8.33	9.09	10.00	11.11	12.50
6/1	6.00	6.38	6.82	7.32	7.89	8.57	9.38	10.34	11.54	13.04	15.00	17.65	21.43
7/1	7.00	7.53	8.14	8.86	9.72	10.77	12.07	13.73	15.91	18.92	23.33	30.43	43.75

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

Sentic Tank Canacity

Absorption V	Vidin Kat	O Table
Texture	SSF	AWR
Sand	0.83	1.00
Fine Sand	1.67	2.00
Sandy Loam	1.27	1.52
Loam	1.67	2.00
Silt Loam	2.00	2.40
Clay Loam	2.20	2.67

Property Owner: Randal Darling

Date: 4/9/2020

# **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: 40 - 2 ft. = 38ft.

b) Center manifold: rock bed length /2: 20 - 1 ft. = 19ft.

c) Choose 3a or 3b: 38ft.

4) Total Perforation Determination:

a) (3c): 38ft.  $\div$  (2c): 3ft. + 1 = 13.67 Perforations / Lateral

b) (4a):  $13.67 \times (2a)$ : 3 = 41.01 Total Number of Perforations

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

d) (4b):  $41.01 \times (4c)$ : 0.74 GPM/Perf. = 30.35 GPM

# **PUMP HEAD REQUIREMENTS**

5) Elevation difference:

a) Elevation difference between pump and point of discharge 12ft.

b) If pumping to a pressure distribution system, (5a) + 5 = 17ft.

c) Choose 5a if pumping to gravity or 5b for pressure: 17ft.

6) Friction loss:

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

b) Pipe length to drainfield: 50ft.  $\times 1.25 = 62.5$ ft.

c) (6a):  $2.06 \times (6b)$ :  $62.5 \div 100 = 1.29$  Total Friction Loss

7) Drainback:

a) Actual Pipe length 50ft. × .17 gal/ft. (Table 3) = 8.5 gal

8) (5c): 17ft. + (6c): 1.29ft. = 18.29 Total Head Required

9) Minimum Pump Size 30 GPM (4d) & 18ft. of dynamic head (8)

Designer's Initials:

	Table 1	
Perforation	on 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 Pl	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

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

Max	<b>Table</b> Perforation		ral
Perf. Spacing	1.25" Pipe	1.5" Pipe	2" 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: Randal Darling

Date: 4/9/2020

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	SL-Loam	10YR 3/2
6-20	Sandy Loam	10YR 4/4
20-30	Sandy Loam	10YR 4/4-4/6
30-40	Loam w/redox	10YR 6/2
	Dense	7.5YR 6/4

#1 Alternate Site

Depth (in.)	Texture	Color
0-6	SL-Loam	10YR 3/2
6-20	Sandy Loam	10YR 4/4
20-32	Sandy Loam	10YR 4/4-4/6
+32	Loam w/redox	

#2 Proposed Site

Depth (in.)	Texture	Color
0-6	SL-Loam	10YR 3/2
6-20	Sandy Loam	10YR 4/4
20-32	Sandy Loam	10YR 4/4-4/6
32-48	Loam w/redox	
	Dense/	

#2 Alternate Site

Depth (in.)	Texture	Color	
			_

	Soil	Sizing F	actors/Hy	draulic Load	ling 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

	<b>Description</b> o	f Soil Treatment	Areas	
	Propo	sed Site	Altern	ate Site
Disturbed Areas?	No		No	
Compacted Areas?		No	No	
Flooding Potential?		No	No	
Run on Potential?	No		No	
Limiting Layer Depth	Proposed #1	Proposed #2	Alternate #1	Alternate #2
	30"	32"	32"	
Slope % and Direction	6% SW		2-4% NW	-
Landscape Position	Summit/Shoulder slope		Summit	
Vegetation Types	n Types Wooded		Wooded	
Soil Texture	Loam over SL	ı		
Soil Sizing Factor	1.67		Selec	ct One

# Martin Joyce Septic Service, LLC

27604 County Road 3, Merrifield, MN 56465

# Septic System Management Plan

Property Owner: Randal Darling	Phone:	<b>Date:</b> 4/9/2020
Mailing Address: 13376 W Marigold Ct, Andover,	MN 55304	
Site Address: 14551 Wilwood Dr, Crosslake, M	/IN 56442	
This management plan will identify performance of your septic system. Some must be performed by a licensed septic se	y the operation and maintenance activity of these activities must be performed by the provider.	ies necessary to ensure long-term y you, the homeowner. Other tasks
System Designer: check every Local Government: check every State Requirement: check every	y months	ly system needs to be checked every <u>36</u> months
Leaks - Check (look, Surfacing sewage - F Effluent filter - Inspe Alarms - Alarm signs	is (performed monthly unless otherwise listen) for leaks in toilets and dripping Regularly check for wet or spongy soil ct and clean twice a year or more all when there is a problem: contact Server meter - Monitor your average daily	faucets. Repair leaks promptly around your soil treatment area.
Recommend if tank s Pump all compartment Check inlet and outle Clean drainfield later Check the drain field Check the pump and Check wiring for compact Check dissolved oxyg Provide home owner	in-tank effluent filter m layer levels in all septic tanks hould be pumped nts of septic tank at least every 36 mon t baffles	taken
" I understand it is my responsibility to utilizing the Management Plan. If require permitting authority and take necessary reserve area for future use as a soil treat	properly operate and maintain the sewarements in this Management Plan are n corrective actions. If I have a new syst	ge treatment system on this property, ot met, I will promptly notify the
Property Owner Signature:  Designer Signature:	Ho-	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]

# D83D--Eutrudepts-Graycalm-Rollins complex, pitted, 10 to 20 percent slopes

### Eutrudepts, sandy

Extent: 15 to 55 percent of the unit Landform(s): moraines on till plains Slope gradient: 10 to 20 percent

Parent material: coarse-loamy glaciofluvial deposits over

sandy outwash over coarse-loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5 Wind erodibility group (WEG): 5 Wind erodibility index (WEI): 56 Kw factor (surface layer) .32

Land capability, nonirrigated 3s

Hydric soil: no Hydrologic group: C

Potential for frost action: low

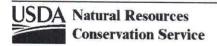
Represent	ativ	e s	oil	profile:	Texture	Permeability	Available water capacity	рН
Α		0	to	3 in	Loam	moderate	0.63 to 0.69 in	4.5 to 5.5
Bw		3	to	10 in	Fine sandy loam	moderate	0.80 to 1.14 in	5.0 to 6.0
E	**	10	to	19 in	Fine sandy loam	moderately rapid	1.13 to 1.61 in	5.0 to 6.0
2E and Bt		19	to	55 in	Loamy sand	rapid	2.87 to 4.66 in	5.0 to 6.0
3C		55	to	79 in	Cobbly loamy sand	moderate	1.89 to 3.78 in	5.5 to 6.5

#### Graycalm

Extent: 15 to 30 percent of the unit Soil loss tolerance (T factor): 5 Landform(s): moraines on till plains Wind erodibility group (WEG): 2 Slope gradient: 10 to 20 percent Wind erodibility index (WEI): 134 Parent material: outwash Kw factor (surface layer) .15 Restrictive feature(s): greater than 60 inches Land capability, nonirrigated 4s Flooding: none Hydric soil: no

Hydrologic group: A Drainage class: somewhat excessively drained 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



Ponding: none

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 3

# Map Unit Description (MN)

Crow Wing County, Minnesota

# D83D--Eutrudepts-Graycalm-Rollins complex, pitted, 10 to 20 percent slopes

#### Rollins

Extent: 15 to 23 percent of the unit Landform(s): moraines on till plains Slope gradient: 10 to 20 percent

Parent material: coarse-loamy drift over sandy and gravelly

outwash

Restrictive feature(s): greater than 60 inches

Flooding: none Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 2 Wind erodibility group (WEG): 3 Wind erodibility index (WEI): 86 Kw factor (surface layer) .24

Land capability, nonirrigated 6s

Hydric soil: no Hydrologic group: A

Potential for frost action: low

Representative soil profile:	Texture	Permeability	Available water capacity	рН
A 0 to 5 in	Sandy loam	moderately rapid	0.56 to 0.67 in	5.1 to 6.5
Bw 5 to 14 in	Gravelly sandy loam	moderately rapid	0.91 to 1.09 in	5.1 to 6.5
2C 14 to 79 in	Extremely gravelly sand	very rapid	1.29 to 3.87 in	5.6 to 6.5

# Map Unit Description (MN)

Crow Wing County, Minnesota

# D83D--Eutrudepts-Graycalm-Rollins complex, pitted, 10 to 20 percent slopes

### Eutrudepts, stratified

Extent: 10 to 17 percent of the unit

Landform(s): moraines on till plains

Slope gradient: 10 to 20 percent

Parent material: coarse-loamy glaciofluvial deposits over

sandy outwash over coarse-loamy glaciofluvial deposits over sandy outwash

over coarse-loamy subglacial till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 3s

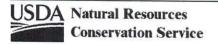
Hydric soil: no

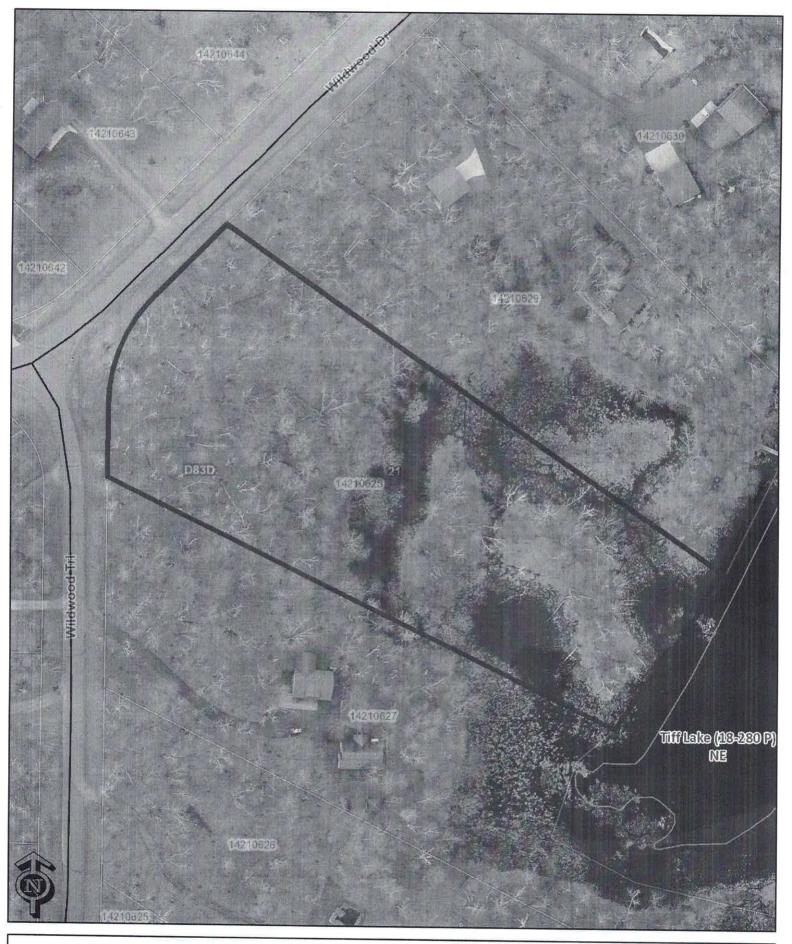
Hydrologic group: B

Potential for frost action: low

Representative soil profile:	Texture	Permeability	Available water capacity	pН
A 0 to 7 in	Sandy loam	moderately rapid	0.74 to 1.07 in	4.5 to 5.5
Bw1 7 to 13 in	Sandy loam	moderately rapid	0.65 to 0.77 in	5.0 to 6.0
2Bw2 13 to 34 in	Gravelly loamy sand	rapid	1.06 to 2.34 in	5.0 to 6.0
3Bw3 34 to 41 in	Loam	moderately rapid	0.74 to 1.07 in	5.0 to 6.0
4Bw4 41 to 50 in	Sand	rapid	0.49 to 1.08 in	5.0 to 6.0
5C 50 to 79 in	Sandy loam	moderately rapid	3.12 to 3.69 in	5.5 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.





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.



Property Owner:

Randal Darling

Date:

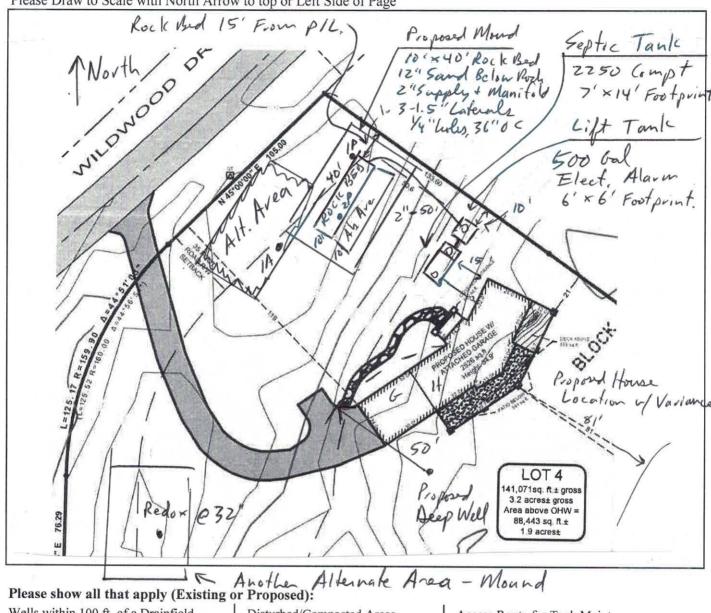
4/9/2020

Site Address:

14551 Wilwood Dr, Crosslake, MN 56442

Re Code: 14210628

Please Draw to Scale with North Arrow to top or Left Side of Page



Wells within 100 ft. of a Drainfield

Water lines within 10 ft. of a Drainfield

Drainfield Areas **Boring Locations**  Disturbed/Compacted Areas

Component Location

OHW

Lot Easements

Access Route for Tank Maintenance

Property Lines

Structures

Setbacks

**Elevations:** 

Benchmark Elevation:

Elevation of Sewer Line at House:

Tank Inlet Elevation:

Drainfield Elevation:

Pump Elevation:

Pump Discharge Elevation:

Restricting Layer Elevation:

Designer Signature:

4/9/2020 Date:

Madely

License Number:

L2129

10010



# 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: 6617	Permit Number: 2010020
Property Owner(s): Randal L. Darling Rev. Living Trust	and the second s
Mailing Address: 13376 W Marigold Ct - Andover, MN 55304	<u>Variances</u> (Check applicable requests)
Site Address: 14551 Wild wood Dr - Crosslake, MN 56442	■ Lake/River Setback
Phone Number: 612-756-1830	☐ Road Right-of-Way Setback
E-Mail Address: darkroaster2@aol.com	☐ Bluff Setback
	☐ Side Yard Setback
Parcel Number(s): 14210628  Legal Description: Wildwood Acres - Lot 4 / Block 4	₩ Wetland Setback N/A
Sec. 21 Twp 137 Rge 26 27 ✓ 28	Septic Tank Setback
Lake/River Name: Tiff	☐ Septic Drainfield Setback
Do you own land adjacent to this parcel(s)?Yes XNo	☐ Impervious Coverage
If yes list Parcel Number(s)	☐ Accessory Structure
Authorized Agent: Wes Hanson Builders	☐ Building Height
Agent Address: 34103 Cty Rd 3 - Crosslake, MN 56442	☐ Patio Size
Agent Phone Number: 692-1760	Tauto Size
Signature of Property Owner(s) Parole & Double	Date 4-91-22020
Signature of Authorized Agent(s)	Date 4/13/20
<ul> <li>All applications must be accompanied by a signed Certificate of S</li> <li>Fee \$500 for Residential and Commercial Payable to "City of Cro</li> <li>No decisions were made on an applicant's request at the DRT me after DRT does not constitute approval. Approval or denial of application Planning Commission/Board of Adjustment at a public meeting a City of Crosslake Land Use Ordinance.</li> <li>5.11.2020 result</li> </ul>	osslake" eting. Submittal of an application plications is determined by the s per Minnesota Statute 462 and the
For Office Use: Application accepted by  Date 4 13 2020	Land Use District SD
Lake Class NE Septic: Compliance SSTS Design	
Original application was withdrawn and resubmitted on 5.11.2	



# **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□  Why:
	The presence of wetland on the property greatly impacts the practical placement of a reasonably sized single family dwelling. If the typical wetland setback was in effect it would not be an issue but the DNR has just recently deemed that this wetland is subject to environmental lake setbacks which would push the structure almost back to the road.
4.	Will the issuance of a Variance maintain the essential character of the locality?  Yes ■ No □  Why:
	There are a few homes in the immediate area that are built much closer to the OHW and / or wetland than is being asked
	on the property at hand. We are not asking to be any closer than any of them and in reality will still be further back from
	the OHW and / or wetland than what many of them are currently.
5.	Is the need for a Variance due to circumstances unique to the property and not created by the property owner?  Yes ■ No□  Why:
	As outlined, the presence of the wetland and the more recent decision to treat it as part of the OHW has created this
	practical difficulty.
	<u></u>
5.	Does the need for a Variance involve more than economic considerations?  Yes ■ No□  Why:
	There are actually no economic considerations involved with the application for this variance. Our hope is to be able to
	place the structure in a place that works with the existing contours, provides proper stormwater management and does
	not force us to place the structure in a highly visible manner from Wildwood Drive.



# 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. Will the is Yes Why:	suance of a Variance maintain the essential character of the locality?  No
5. Is the ne the property Yes Why?	ed for a Variance due to circumstances unique to the property and not created by owner? No
6. Does the Yes Why:	need for a Variance involve more than economic considerations?  No