



ST. LOUIS COUNTY BOARD OF ADJUSTMENT STAFF REPORT

REPORT DATE: 07/24/2023

MEETING DATE: 08/10/2023

APPLICANT INFORMATION

APPLICANT NAME: Bodri Enterprises Inc.

APPLICANT ADDRESS: 8650 Highway 115 Cook, MN 55723

OWNER NAME: Daniel Engstrom

SITE ADDRESS: 1392 Walsh Road Ely, MN 55731

LEGAL DESCRIPTION: LOT 41 & LOT 42 CLEARWATER PLAT, S27, T62N, R14W (Eagles Nest)

PARCEL IDENTIFICATION NUMBER (PIN): 317-0040-00410 / 317-0040-00420

VARIANCE REQUEST: The applicant is requesting relief from St. Louis County SSTS Ordinance 61 adopted Technical Standards 7080.2150, Subpart 2, Section F, Table VII, to allow a subsurface sewage treatment system installation at a reduced shoreline setback from a Recreational Development lake where a minimum of 75 feet is required.

PROPOSAL DETAILS: The applicant is proposing to install a new septic tank at a reduced shoreline setback of 60 feet where a 75 foot setback is required. The new tank will be replacing the noncompliant existing dry wells as required by the point-of-sale inspection requirements.

PARCEL AND SITE INFORMATION

ROAD ACCESS NAME/NUMBER: WALSH

ROAD FUNCTIONAL CLASS: LOCAL

LAKE NAME: EAGLES NEST NO. 3

LAKE CLASSIFICATION: RD

RIVER NAME: N/A

RIVER CLASSIFICATION: N/A

DESCRIPTION OF DEVELOPMENT ON PARCEL: The parcel currently contains a dwelling, two small storage buildings, and noncompliant dry wells that failed point-of-sale inspection.

ZONE DISTRICT: SMU 7

PARCEL ACREAGE: APPROX. 0.2 ACRES

LOT WIDTH: 100 FEET

FEET OF ROAD FRONTAGE: 100 FEET

FEET OF SHORELINE FRONTAGE: 100 FEET

PARCEL AND SITE INFORMATION

VEGETATIVE COVER/SCREENING: The property has sufficient vegetative screening from the shoreline, roadway, and neighboring properties.

TOPOGRAPHY: There is an elevation change of 10 feet, sloping towards the shoreline.

FLOODPLAIN ISSUES: N/A

WETLAND ISSUES: N/A

ADDITIONAL COMMENTS ON PARCEL: There is limited area for replacement due to the depth of the parcel.

FACTS AND FINDINGS

A. Official Controls:

1. Ordinance 61 states that all SSTS components must be setback in accordance with Table VII of the SSTS Technical standards. The required setback for Eagle's Nest Lake No. 3 is 75 feet. The applicant is proposing to install the tank at a reduced setback of 60 feet.
2. All other setbacks will be met.

B. Practical Difficulty:

1. With a road right-of-way setback of 10 feet, and a shoreline setback of 75 feet, there is no area on the parcel that conforms to both setback requirements.
 - a. The parcel is approximately 83 feet deep, limiting the conforming area for replacement.
 - b. The existing structure layout limits the conforming area for replacement.
2. The existing dry wells were found to be noncompliant when a point-of-sale inspection was done and are required to be replaced.

C. Essential Character of the Locality:

1. The plat is zoned Shoreland Multiple Use – 7 consisting of conforming and nonconforming residences.
2. There have been no similar variance requests within the plat.

D. Other Factor(s):

1. There is no conforming septic replacement area due to shoreline and roadway setbacks.
2. The existing system is noncompliant has failed point-of-sale inspection.

BOARD OF ADJUSTMENT CRITERIA FOR APPROVAL OF A VARIANCE

1. Is the variance request in harmony with the general purpose and intent of official controls?
2. Has a practical difficulty been demonstrated in complying with the official controls?
3. Will the variance alter the essential character of the locality?
4. What, if any, other factors should be taken into consideration on this case?

CONDITIONS

Conditions that may mitigate the variance for relief from St. Louis County SSTS Ordinance 61 7080.2150 Subpart 2 Item F (Table VII) to allow a subsurface sewage treatment system installation at a reduced shoreline setback as proposed include, but are not limited to:

1. All other Onsite Wastewater SSTS standards shall be met.
2. Following system installation, an inspection shall be performed by a qualified inspector to ensure setbacks are met prior to issuing Certificate of Compliance.
3. All other local, county, state and federal regulations shall be met.

**ST. LOUIS COUNTY, MN
PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT
(On-Site Wastewater Division)**

Duluth

Government Services Center

320 West 2nd Street, Suite 301
Duluth, MN 55802
Phone (218) 725-5200
Toll Free (800) 450-9278

Virginia

Government Services
Center
201 South 3rd Avenue West
Virginia, MN 55792
Phone (218) 749-0625
Toll Free (800) 450-9278

Permit Construction Application Subsurface Sewage Treatment System

General

- This permit application form is used to apply for a Permit to Construct. Additional information:

www.stlouiscountymn.gov/septic

Enter the Primary PIN and Associated PIN (if applicable) of the property to be reviewed.

PIN is found on your Property Tax Statement. For example, 123-1234-12345. Primary PIN: Parcel where Structure/SSTS are located. Associated PIN: Additional and/or adjacent property that you own or that is related to the project.

County Land Explorer: <https://www.stlouiscountymn.gov/explorer>

Property Lookup: <http://apps.stlouiscountymn.gov/auditor/parcelInfo2005Iframe>

Primary PIN **317-0040-00410**

Associated PINs
PIN # **317-0040-00420**

Enter Applicant Information

I am a: **Contractor**
 Are you an LLC Business? **No**
 Applicant Name: **Bodri Enterprises Inc**
 Address: **8650 Highway 115**
 --
 City: **Cook**
 State: **MN**
 Zip: **55723**
 Primary Phone: **(218)410-3477**
 Mobile Phone: **218-410-3477**
 Email: **michaelbodri@gmail.com**
 Preferred Contact Method: **Any**
 Contact Person Name: **--**
 Contact Person Phone: **--**

Property Owner Name and Contact Information.

If the property owner information we have on file is not correct, please enter the current owner information.

Property Owner Name: **ENGSTROM DANIEL J**
 Site Address: **1392 WALSH ROAD**
 --
 City: **ELY**
 State/Province: **MN**
 Zip: **55731**
 Primary Phone: **(612)987-5335**
 Mobile Phone: **--**
 Email: **dengstrom67@yahoo.com**
 Preferred Contact Method: **Any**
 Contact Person Name: **--**
 Contact Person Phone: **--**

Mailing Address Information

This address can default from the address you selected. If the values defaulted are not correct, please enter the correct information.

Same as Property address? **Yes**
 Same as Applicant address? **Yes**
 Name: **ENGSTROM DANIEL J**
 Address: **4484 115th AVE**
 --
 City: **CLEAR LAKE**
 State/Province: **MN**
 Zip: **55319**
 Primary Phone: **(612)987-5335**
 Mobile Phone: **--**
 Email: **dengstrom67@yahoo.com**

Provide additional email recipients **Yes**

SITE INFORMATION

Enter Site information

Do you need to request a 911 address number and sign? **No**

Is this a leased property? **No**

Is this for Residential or Commercial?
Residential

Is the property used year round or used seasonally?
Seasonal Use

Is this project within 300 feet of a river/stream or 1,000 feet of a lake?

Yes

River/Lake Name **Eagles Nest #3**

Is this property connected to a Common Interest Community?

No

Is this serving multiple dwellings sharing a SSTS component?

No

Is this related to a Point of Sale Requirement?

Yes

Is the SSTS located in a floodplain?

No

APPLICATION REASON

What are you applying for? **Replacing the existing SSTS**

Explain why: **Drywell that failed inspection**

Permit Number (being replaced, if known): **--**

RESIDENTIAL WORKSHEET

Select the System Type

Type I System

"Type I System" means an ISTS that follows a standard trench, bed, at-grade, mound, or graywater system design in accordance with MPCA rules, Minnesota Rules, Chapter 7080.2200 through 7080.2240.

No

Type II System

"Type II System" means an ISTS with acceptable modifications or sewage containment system that may be permitted for use on a site not meeting the conditions acceptable for a standard Type I system. These include systems on lots with rapidly permeable soils or lots in floodplains and privies or holding tanks.

Yes

System Type **Holding Tank**

Type III System

"Type III System" means a custom designed ISTS having acceptable flow restriction devices to allow its use on a lot that cannot accommodate a standard Type I soil treatment and dispersal system.

No

Type IV System

"Type IV System" means an ISTS, having an MPCA registered pretreatment device and incorporating pressure distribution

and dosing, that is capable of providing suitable treatment for use where the separation distance to a shallow saturated zone is less than the minimum allowed.

No

Type V System

"Type V System" means an ISTS, which is a custom engineered design to accommodate the site taking into account pretreatment effluent quality, loading rates, loading methods, groundwater mounding, and other soil and other relevant soil, site, and wastewater characteristics such that groundwater contamination by viable fecal coliforms is prevented.

No

WELL INFORMATION

Enter information about the well.

Do you have a proposed water source?

No

Enter # of existing water sources on the property

1

After completing the following information for the 1st water source, please use the Add Another Water Source button to add the additional water source(s) information.

Water Source Type	Surface/Lake Water
Well #	--
Well Depth (Feet)	--
Case Depth (Feet)	--
Well Type	--

DESIGNER & INSTALLER INFORMATION

Select the Designer

Licensed Business	Bodri Enterprises Inc.
Name or Designer Name	
License #	4284
Certification #	8748
Designer's Comments (To On-Site Wastewater Staff)	He had a permit to complete this back in 2020 but never got it completed

Select the Installer (if known)

Licensed Business	--
Name or Installer Name	
License #	--
Certification #	--
Installer's Comments (To On-Site Wastewater Staff)	--

STRUCTURE - RESIDENTIAL

Enter Building Type and Water Uses

Home, mobile home, hunting shack, cabin, RV

Dwelling **Yes**

Dwelling

of Bedrooms **2**

Plumbing **Yes**

Basement Plumbing **Yes**

Garbage Disposal **Yes**

Clothes Washer **Yes**

Dishwasher **Yes**

Water Conditioning Unit **Yes**

Furnace w/Humidifier **Yes**

Bathtub > 40 gal. **Yes**

Sewer Grinder Pump **Yes**

Multi-Family **No**

Accessory Dwelling **No**

Accessory Structure
w/water **--**

Other **No**

Other information to be considered for this application

--

Will this project require a Septic Variance?

Yes

VARIANCE WORKSHEET

Enter Variance information. About SSTS Variances Pursuant to Ordinance 61, Article V, Section 3.0 A property owner may request a variance from the standards specified in the Ordinance pursuant to county policies and procedures. Variances shall only be permitted when they are in harmony with the general purposes and intent of this Ordinance where there are practical difficulties or particular hardship in meeting the strict letter of this Ordinance, excluding the technical standards. Certain deviations may require the approval of the MPCA or the MN Department of Health.

Describe the specific provision(s) in the ordinance from which the variance is requested.

Need to put the tank within 60' of the high water mark compared to the lake setback of 75'

Describe the practical difficulty that prevents compliance with the rule.

The lot is so small that the lake setback and road setback overlap, making it impossible to do anything on the lot without getting a variance.

Describe the alternative measures that will be taken to achieve a comparable degree of compliance with the purposes and intent of the applicable provisions.

The tank will be located behind the cabin so that it cannot be seen from the lake. It will also help to protect the groundwater by removing a noncompliant system

Identify cost considerations preventing reasonable use of the property under the terms of this ordinance

Without a variance, the cabin would have to be turned into a hand carry water only dwelling. This would dramatically decrease the value of the property. The only other option would be to try to buy more land in the area, which there is none available

OFFICE USE ONLY

ES Area	EA
Office	Virginia
Section	27
Township	62
Range	14
Variance Department	--
Recommendation	

Specify reasons for recommendation:

Hint: (Reference pertinent sections of the Ordinance and ISTS Construction Standards)

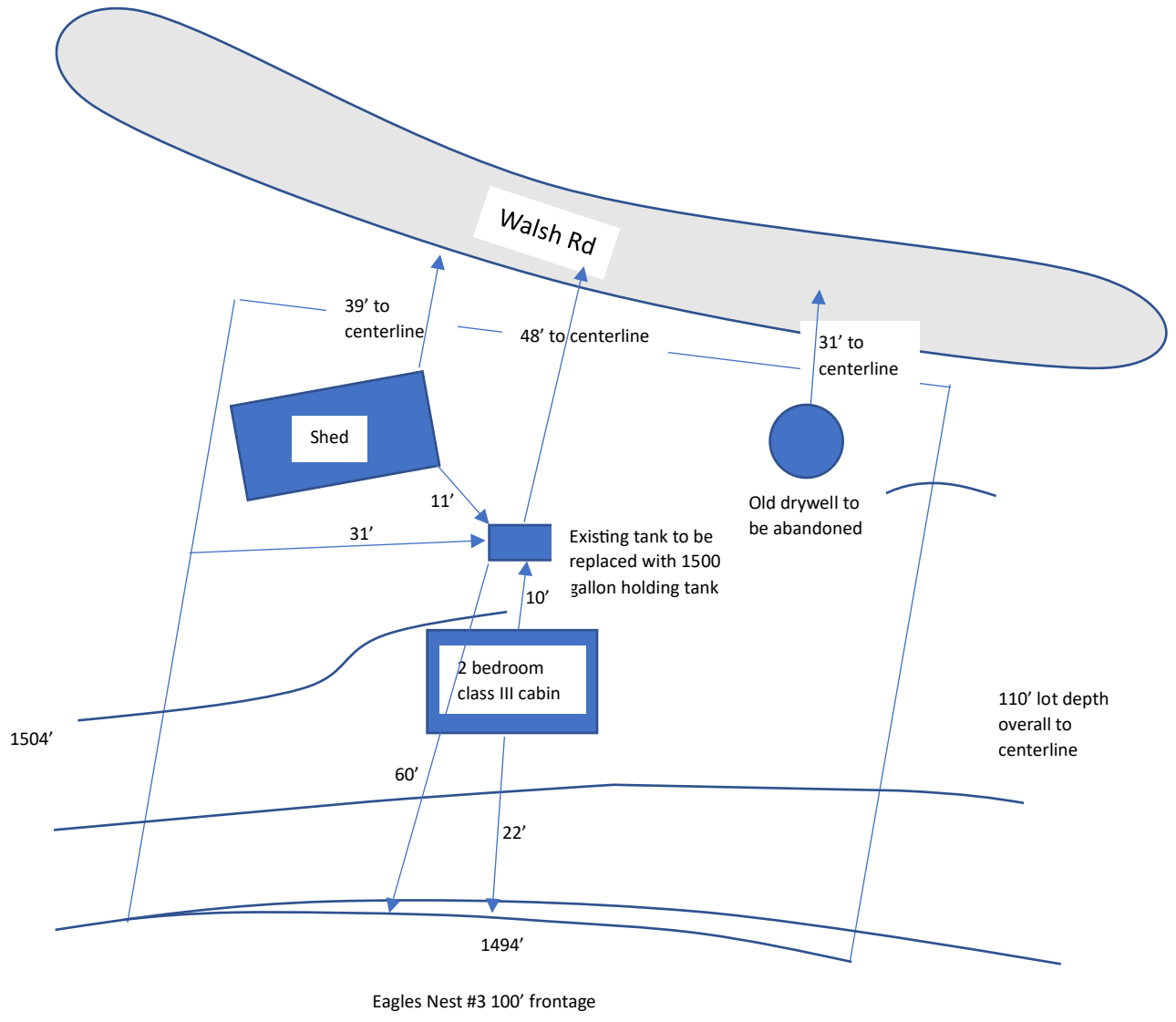
	--
Hearing Info. and Outcome	--
Board of Adjustment	--
Hearing Date	
Permit #	--
Variance Granted	--
Case #	--

VARIANCE AGREEMENT

By submitting this request for variance from the Ordinance and the Construction Standards, I certify and agree that no substantial health hazard is likely to occur therefrom and an unnecessary hardship might result in strict compliance with the Ordinance and Standards.

I further agree to install a sewage treatment system in accordance with the permit application, plans, and specification that are made as part of this variance request, in addition to paying the Variance Fee associated with this request.

Site evaluation of Septic 6/1/2023
 1392 Walsh Rd
 Approx 0.2 acres
 City: Ely
 Twp Eagles Nest
 Designed by Michael Bodri
 Bodri Enterprises Inc
 License 4284 Cert 8748
 218-410-3477
 Property only has lake water system.
 Not to scale





St. Louis County, MN

PERMIT

Residential Construction Application

Subsurface Sewage Treatment System

Form

3000

Rev. 12-28-2021

This permit application form is used to apply for a Permit to Construct. Additional Information: www.stlouiscountymn.gov/septic.

PROPERTY IDENTIFICATION NUMBER (PIN) and SITE

Primary PIN **3 1 7 - 0 0 4 0 - 0 0 4 1 0** Associated PIN **3 1 7 - 0 0 4 0 - 0 0 4 2 0**

PIN is found on your Property Tax Statement (E.g. 123-1234-12345), searching the County Land Explorer at <https://qls.stlouiscountymn.gov/landexplorer/>, or searching the Property Lookup at <http://apps.stlouiscountymn.gov/auditor/parcelInfo2005Iframe/>.

Site Address **1392 Walsh Rd** City **Ely** Zip **55731**

Check to request a 911 address number and sign. Visit <https://www.stlouiscountymn.gov/departments-a-z/sheriff/emergency/911-emergency#5143571-obtaining-a-911-address> for addressing information.

APPLICANT (Property Owner)

Name **Dan Engstrom** Date **6/6/2023**

Address **4484 115TH AVE** City **Clear Lake** State **MN** Zip **55319**

Email **dengstrom67@yahoo.com** Phone **612-987-5335** Phone

CONTACT (If Different than Applicant Above)

Name

Email Phone Phone

MAILING INFORMATION (If Different than Site Address)

US Mail Address City State Zip

Email Email **michaelbodri@gmail.com**

REASON FOR APPLICATION

New SSTS Replacing the Existing SSTS **Why Failed dry well** Point of Sale Requirement

SYSTEM TYPE (refer to design summary) and PERMIT FEES

Type I		Type II		Type III		Type IV		Type V	
<input type="checkbox"/> Non-Shoreland	\$310	<input checked="" type="checkbox"/> Holding Tank	\$255	<input type="checkbox"/> System	\$350	<input type="checkbox"/> System	\$400	<input type="checkbox"/> System	\$500
<input type="checkbox"/> Shoreland	\$535	<input type="checkbox"/> Privy/Outhouse	\$105	<input type="checkbox"/> Component Add/Replace	\$205	<input type="checkbox"/> Component Add/Replace	\$205	<input type="checkbox"/> Component Add/Replace	\$205
<input type="checkbox"/> Component Add/Replace	\$205	<input type="checkbox"/> Floodplain-Shoreland	\$315						
		<input type="checkbox"/> Component Add/Replace	\$205						

Please make checks payable to: St. Louis County Auditor

SITE INFORMATION (Check all that apply)

Yes No Is the SSTS within 1,000 feet of a lake or 300 feet of a river? **Lake/River Name Eagles Nest #3**

Yes No Is the property used year round?

Yes No Is the property part of a CIC (Common Interest Community)? If yes, include the Associated PIN on this Application.

Yes No Is this property serving multiple dwellings sharing a SSTS component?

Yes No Is this leased property? If yes, you must obtain & attach the Lessor's written authorization for this project.

Leased From MN Power St. Louis County MN DNR US Forest Service Other

WELL INFORMATION (Check all that apply)

Water Source Proposed Well Existing Well Hand Carried Surface/Lake Water Municipal

Well Type Drilled Sandpoint Dug Is there one or more wells? Yes No

Well # Well Depth Feet Case Depth Feet



St. Louis County, MN

PERMIT

Residential Construction Application

Subsurface Sewage Treatment System

Form

3000

Rev. 12-28-2021

DESIGNER

Licensed Business Name **Bodri Enterprises Inc.**

License # **4284**

Certification # **8748**

Designer's Comments *(To On-Site Wastewater Staff)*

Owner had a permit for a holding tank back in 2020 but never had it installed and no variance was pulled. He now needs a new permit and a variance to do a new one

STRUCTURE

Building Type and Water Uses Check all that apply		# of Bedrooms	Seasonal Use Only	Plumbing	Basement Plumbing	Garbage Disposal	Clothes Washer	Dishwasher	Water Conditioning Unit	Furnace w/Humidifier	Bathtub > 40 gal	Sewer Grinder Pump
<input checked="" type="checkbox"/> Dwelling	Home, mobile home, hunting shack, cabin, RV	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Multi-Family	Multiple units		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Accessory Dwelling	Guest cottage, bunk house		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Accessory Structure	Garage, pole building, shed, sauna, gazebo screen-house	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other information to be considered for this application

Road right of way setback and lake setbacks overlap on lot due to how small it is

AGREEMENT

By submitting this application, the entire contents of which are considered to be public data, I certify and agree that I am the owner or the authorized agent of the owner of the above property, and that all uses will conform to the provisions of St. Louis County. I further certify and agree that I will comply with all conditions imposed in connection with the approval of the application. Applicants may be required to submit additional property descriptions, property surveys, site plans, building plans and other information before the application is accepted or approved. **Intentional or unintentional falsification of this application or any attachments thereto will make the application, any approval of the application and any resulting permit invalid.** I authorize St. Louis County staff to inspect the property to review the application and for compliance inspections. Furthermore, by submitting this application, I release St. Louis County and its employees from any and all liability and claims for damages to person or property in any manner or form that may arise from the approval of the application or any related plans, the issuance of any resulting permit or the subsequent location, construction, alteration, repair, extension, operation or maintenance of the subject matter of the application.

CONTACT Planning and Community Development (On-Site Wastewater Division)

Duluth Office

Government Services Center
320 W 2nd Street, Suite 301
Duluth, MN 55802

Phone (218) 725-5200
Toll Free (800) 450-9777
www.stlouiscountymn.gov/septic

Virginia Office

Government Services Center
201 South 3rd Avenue West
Virginia, MN 55792

Phone (218) 749-0625
Toll Free (800) 450-9777
www.stlouiscountymn.gov/septic

OFFICE USE ONLY

Amount Paid	Paid by	Cash	Check #	Permit #
Revenue Code	Received By	<input type="checkbox"/> Mail <input type="checkbox"/> IP	Date RIO	



St. Louis County, MN

PERMIT SSTS Design Summary Subsurface Sewage Treatment System

Form

3002

Rev. 07-27-2022

This form is used to complete a SSTS Design. Additional Information: www.stlouiscountymn.gov/septic

SITE INFORMATION

Site Address **1392 Walsh Rd** City **Ely** Zip **55731** Parcel ID **317-0040-00410**

DESIGNER

Name **Michael Bodri** Date

Email **michaelbodri@gmail.com** Phone **218-410-3477** Phone

SYSTEM INFORMATION

MPCA Type Type I Type II Type III Type IV Type V Dwelling Classification I II III IV

Residential Commercial Seasonal Other Well Casing Depth **0**

Bedrooms **2** # Water using devices **1** Total Finished Sq ft **746** Sq ft / Bedroom **373**

Design Flow **180** Water Meter **yes** Pressure Test **no** Grinder or Disposal **no**

CLR SLR Limiting Soil Type Limiting Layer Depth (in)

SSTS Flow Description

A 2 bedroom class III seasonal cabin flowing into a 1500 gallon holding tank

TANK INFORMATION

Type (Septic, Pump, Holding etc.)	Size (gallons)	Status (New, Existing)	Material (Precast, Plastic)	Alarm (Yes, No)	Insulated (Yes, No)	Bedded (Yes, No)	Building Sewer (Gravity, Pressure, Both)
holding	1500	new	precast	yes	**	yes	gravity

Gallons per inch of pump tank

Tank Installation & Pumping comments

****Tank must be insulated to a value of R10 if buried less than 2 feet underground**

DISTRIBUTION INFORMATION

Gravity Drop Box Distribution Box

Pressure Gal/Min Ft Head Pump Model

Event Counter ETM Time Dose Panel Timer On Timer Off

Max Dose Min. Dose Drainback Dose + Drainback Float Tether (in)

Manifold Laterals

Location Center End Number Length (ft)

Size (in) Size (in)

Insulated Orifices

Size (in) # Per lateral

Spacing (in) Shields



St. Louis County, MN

PERMIT

SSTS Design Summary

Subsurface Sewage Treatment System

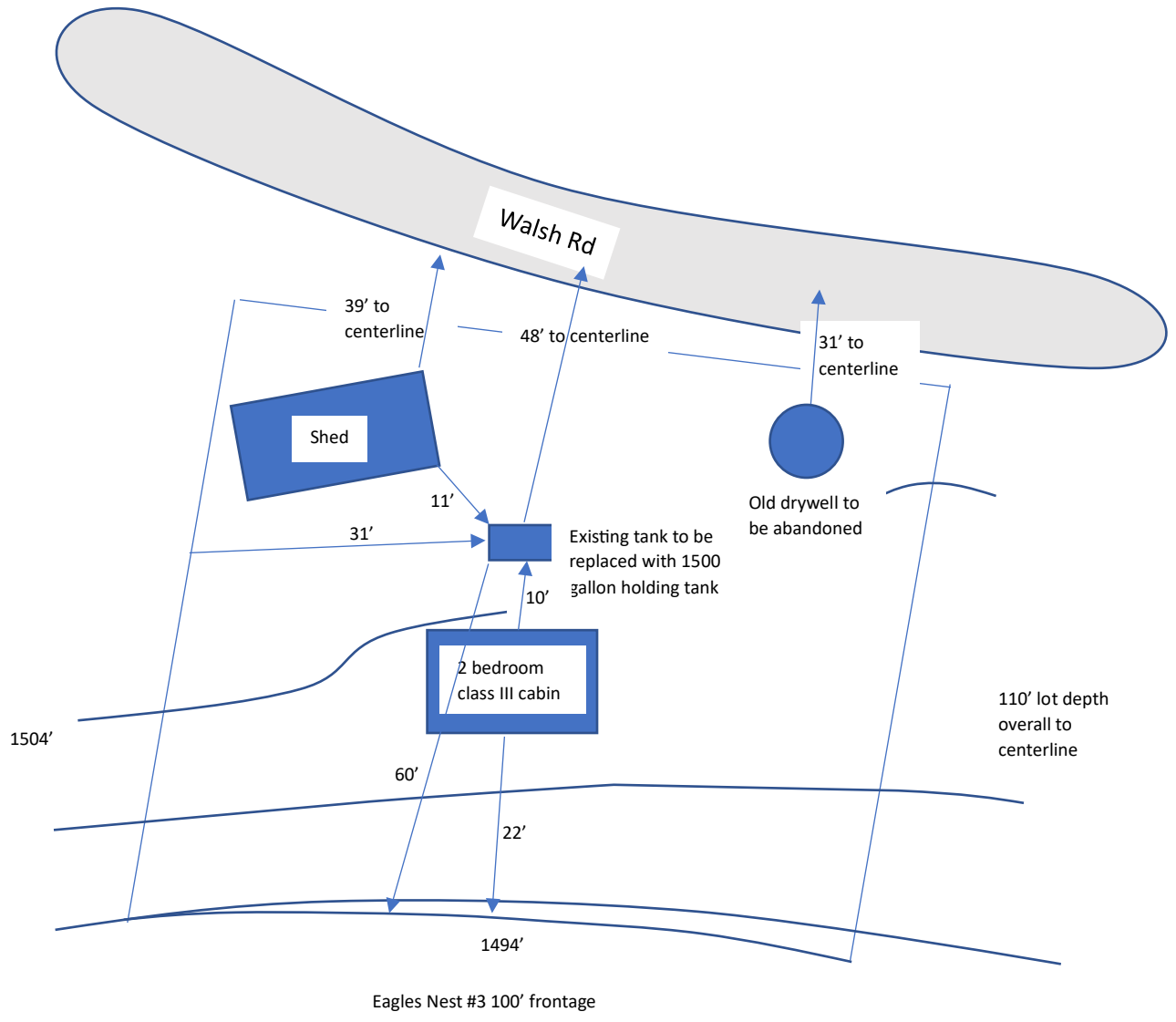
Form

3002

Rev. 07-27-2022

DRAINFIELD INFORMATION				
Trench				
Number	Width (ft)	Length (ft)	Media Type	
Max Depth (in)	Rock (in)	Cover (in)	Sand Liner (in)	
Bed				
Number	Width (ft)	Length (ft)	Media Type	
Max Depth (in)	Rock (in)	Cover (in)	Sand Liner (in)	
At-Grade				
Width (ft)	Length (ft)	Number	Up Berm (ft)	Down Berm (ft)
Mound				
Number	Bed Width (ft)	Bed Length (ft)	Media Type	
Sand (in) to	Rock (in)	Cover (in)	Total Width (ft)	
Up Berm (ft)	Down Berm (ft)	Sand (yd ³)	Total Length (ft)	
Registered Filter Product				
Filter Class	<input type="checkbox"/> Intermittent/Single Pass	<input type="checkbox"/> Recirculating	<input type="checkbox"/> Subsurface Flow	<input type="checkbox"/> Other
Media Type	<input type="checkbox"/> Sand	<input type="checkbox"/> Peat	<input type="checkbox"/> Textile/Synthetic	<input type="checkbox"/> Constructed Wetlands
No. of Filters	Rock Bed Dimensions (ft)	x	Bed Media Depth (in)	
Manufacturer				
Registered Aerobic Treatment System				
Type	<input type="checkbox"/> Suspended Growth	<input type="checkbox"/> Fixed Film	<input type="checkbox"/> Sequencing Batch	<input type="checkbox"/> Other
Gallons/day	No. of Units	Disinfection (yes or no)	If yes, chemical or UV	
Manufacturer				
Designer Comments				
going in the same place as old tank, very limited options on site				
CONTACT Planning and Community Development (On-Site Wastewater Division)				
Duluth Office			Virginia Office	
Government Services Center 320 W 2nd Street, Suite 301 Duluth, MN 55802	Phone (218) 725-5200 Toll Free (800) 450-9777 www.stlouiscountymn.gov/septic	Government Services Center 201 South 3rd Avenue West Virginia, MN 55792	Phone (218) 749-0625 Toll Free (800) 450-9777 www.stlouiscountymn.gov/septic	

Site evaluation of Septic 6/1/2023
 1392 Walsh Rd
 Approx 0.2 acres
 City: Ely
 Twp Eagles Nest
 Designed by Michael Bodri
 Bodri Enterprises Inc
 License 4284 Cert 8748
 218-410-3477
 Property only has lake water system.
 Not to scale



Eagles Nest #3 100' frontage

Septic system maintenance plan - Holding tank

This management plan will identify the operation and maintenance activities necessary to ensure long-term performance of your septic holding tank. Some of these activities must be performed by you, the homeowner. Other tasks must be performed by a licensed septic maintainer or service provider. However, it is YOUR responsibility to make sure all tasks get accomplished in a timely manner. Keep copies of all pumping records and other maintenance and repair invoices with this document.

Property Owner _____ Dan Engstrom _____

Property address _____ 1392 Walsh Rd Ely _____

Permit # _____ year installed _____

Pumper __ Josh Carlson Honey Wagon _____

Description of septic: _2 br cabin to 1500 gal holding tank _____

Seasonally or several times per year – homeowner’s responsibility

- Leaks. Check (listen, look) for leaks in toilets and dripping faucets. Repair leaks promptly.
- Surfacing sewage. Regularly check for wet or spongy soil around your holding tank area. If surfaced sewage or strong odors are not corrected by pumping the tank or fixing broken caps, call your service professional. Untreated sewage may make humans and animals sick.
- Alarms. Alarm signals when the holding tank is 75% at capacity. Contact your pumper/maintainer any time the alarm signals. Test alarm to make sure it is working.
- Caps. Make sure that all caps and lids are intact and in place. Inspect for damaged caps at least once every year in the fall. Fix or replace damaged caps before winter to help prevent freezing issues.

Tank Maintenance – homeowner and pumper/maintainer’s responsibility

- Make arrangement to have tank pump when alarm goes off or reaches its high level mark on manual alarm.
- Make sure that your pumper/maintainer services the tank through the manhole. (NOT through a 4” or 6” diameter inspection port.)
- Operating Permits must be renewed every five years. At the time of renewal, the owner must submit to the Department an Operating Permit
 - Renewal application and application fee,
 - Water usage records for the previous 12 months,
 - Pumping records by pumping episode for the previous 12 months,
 - Holding Tank Inspection Form completed by a licensed service provider or maintainer,
 - Copy of a valid signed contract with a licensed maintenance business



St. Louis County, MN

OPERATING PERMIT

OPERATING PERMIT WORKSHEET

Subsurface Sewage Treatment System

Form

3010

Rev. 12-28-2021

This form is for an operating permit. Additional Information: www.stlouiscountymn.gov/septic.

PROPERTY IDENTIFICATION NUMBER (PIN) and SITE

Primary PIN 3 1 7 - 0 0 4 0 - 0 0 4 1 0 Associated PIN 3 1 7 - 0 0 4 0 - 0 0 4 2 0

Site Address 1392 Walsh Rd City Ely Zip 55731 Date 6/6/2023

DESIGNER

Licensed Business Name Bodri Enterprises Inc License # 4284

REASON FOR OPERATION PERMIT

- checkbox Holding Tank, Type III, Type IV, Type V, Other Establishment, High Waste Strength, Other

SYSTEM INFORMATION

Design flow 180 Treatment level C

System components A 2 bedroom class III cabin going to a 1500 gallon holding tank

MONITORING REQUIREMENTS

Table with 4 columns: Parameter, Effluent limits, Frequency, Location. Rows include Incoming flow (180, DAILY, water meter) and alarm (AS NEEDED, tank).

MAINTENANCE REQUIREMENTS

Table with 3 columns: System component, Maintenance, Frequency. Rows include holding tank (pump, as needed), alarm (check if working, annual), and operating permit (renew, every 5 years).

OTHER INFORMATION

SIGNATURE

Handwritten signature: Michael Bodri (Signed for Dan)

Date 6/6/2023

CONTACT Planning and Community Development (On-Site Wastewater Division)

Duluth Office

Government Services Center 320 W 2nd Street, Suite 301 Duluth, MN 55802

Phone (218) 725-5200 Toll Free (800) 450-9777 www.stlouiscountymn.gov/septic

Virginia Office

Government Services Center 201 South 3rd Avenue West Virginia, MN 55792

Phone (218) 749-0625 Toll Free (800) 450-9777 www.stlouiscountymn.gov/septic

PUMPING AGREEMENT

Date: 6-13-23

Exp: UPON SALE OF PROPERTY

Maintainer:

HONEYWAGON SEPTIC SERVICE

P.O. Box 691

Tower, Minnesota 55790

Cell: 218-780-4050 Office: 218-753-3621

Customer:

DAN ENGSTROM

1392 WALSH RD,

ELY, MN 55731

AGREEMENT DETAILS:

Pump 1500 gallon holding tank(s) at 1392 WALSH RD,

Usage of water by homeowners will determine the frequency of which the tank must be emptied. Homeowners will call maintainer when tanks levels require pumping. This agreement shall be in place from the date signed until the operating permit expires and an inspection is required, at which time a new agreement shall be signed. The homeowner or the maintainer has the right to void this agreement, without notice, at any time. The homeowner understands that if he/she decides to opt out of the agreement with the maintainer that St. Louis County Environmental Services must be notified and a new agreement with another maintainer must be secured.

I, Dan Engstrom, agree to contract with HONEYWAGON SEPTIC SERVICE for the purpose of holding tank sewage removal at the above listed address.

SIGNED:

Dan Engstrom

(Print Name)

Michael Bookij (signed for Dan)

(Signature of Homeowner(s))

JOSHUA CARLSON

(Print Name)

[Signature]

(Signature of Maintainer)



St. Louis County, MN

VARIANCE

Variance Worksheet

Subsurface Sewage Treatment System

Form

3090

Rev. 03-2021

About SSTS Variances Pursuant to Ordinance 61, Article V, Section 3.0

A property owner may request a variance from the standards specified in the Ordinance pursuant to county policies and procedures. Variances shall only be permitted when they are in harmony with the general purposes and intent of this Ordinance where there are practical difficulties or particular hardship in meeting the strict letter of this Ordinance, excluding the technical standards. Certain deviations may require the approval of the MPCA or the MN Department of Health.

Please Complete the Following Sections

Describe the specific provision or provisions in the ordinance from which the variance is requested.

Looking for an exception on Eagles Nest #3 in regards to lake setback for a holding tank. The goal is to get a holding tank within 60' of the high water mark setback instead of the regular 75' for this lake.

Describe the practical difficulty that prevents compliance with the rule.

Due to the small overall dimensions of the lot (110' from the shoreline to the centerline on Walsh Rd of the east line) there is no way to get any replacement system on the lot without asking for a variance. Owner had originally hoped for an in ground system on the property, which would have led to needing a road variance, lake setback variance, property line variance, and distance to structure variance

Describe the alternative measures that will be taken to achieve a comparable degree of compliance with the purposes and intent of the applicable provisions.

The road setback will be adhered to so that if any future alterations were to occur on the road, the system would not be of hinderance. Tank will be placed in the location of the existing tank behind the cabin to keep it as far from the lake as possible as well as out of sight from the lake. The holding tank would do a much better job of protecting the groundwater than the current dry well on the property is doing.

Identify cost considerations preventing reasonable use of the property under the terms of this ordinance.

Without a variance, there would be no way to get a septic system on the property. This would severely impact the value of the property if all water appliances had to be discontinued in use and switch to hand carry only

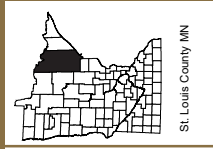
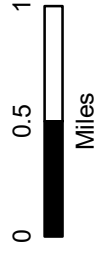
AGREEMENT

By submitting this request for variance from the Ordinance and the Construction Standards, I certify and agree that no substantial health hazard is likely to occur therefrom and an unnecessary hardship might result in strict compliance with the Ordinance and Standards. I further agree to install a sewage treatment system in accordance with the permit application, plans, and specification that are made as part of this variance request, in addition to paying the Variance Fee associated with this request.



St. Louis County

August BOA Meeting



Bodri Enterprises Inc.
 Location Map
 317-0040-00410

Prepared By: **Planning & Community Development**
 (218) 725-5000
www.stlouiscountymn.gov

Source: **St. Louis County**

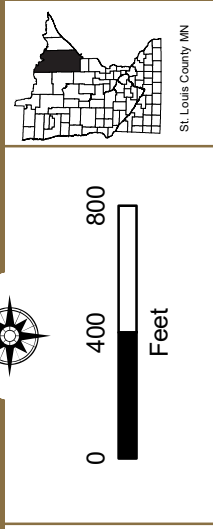
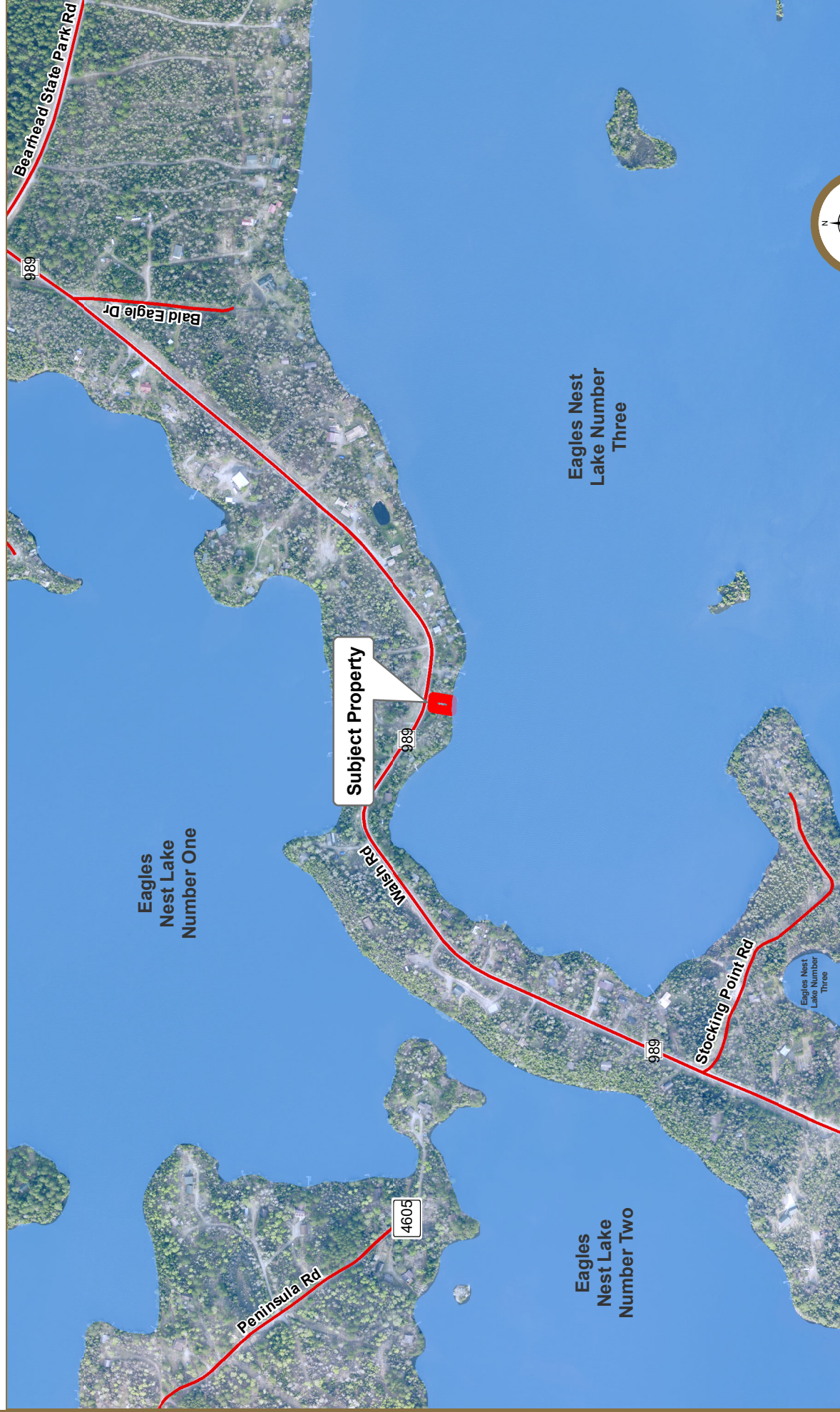
Map Created: **7/18/2023**

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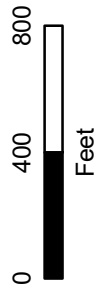
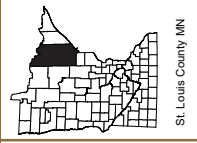
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 Zoning Map
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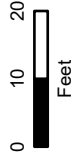
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August BOA Meeting



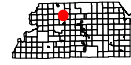
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Site Map

PIN: 317-0040-00410 & 317-0040-00420



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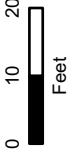
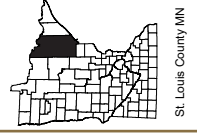
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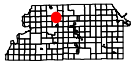
August BOA Meeting



Bodri Enterprises Inc

Site & Elevation Map

PIN: 317-0040-00410 & 317-0040-00420



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