COUNTY OF BECKER

Planning and Zoning

915 Lake Ave, Detroit Lakes, MN 56501

Phone: 218-846-7314 ~ Fax: 218-846-7266

PLANNING COMMISSION
NOTICE OF PUBLIC HEARING
HEARING DATE AND LOCATION

Tuesday, April 10, 2018 @ 7:00 P.M.

3rd Floor Jury Assembly Room New Addition-Becker County Courthouse
Detroit Lakes, MN 56501

APPLICANT: Chad Stenerson
7414 E. Turquoise Avenue
Scottsdale, AZ 85258

Project Location: 12673 Co. Hwy. 17, Detroit Lakes, MN

APPLICATION AND DESCRIPTION OF PROJECT:
Change of Zone from Agricultural to Commercial.

LEGAL LAND DESCRIPTION: Tax ID number: **19.0425.000** Section 21 Township 138 Range 041
LOT 2 LESS 7.25 AC & PT TO STATE & N 7.50 AC OF LOT 3 W OF HWY

Replies/Comments: Interested parties are invited to submit to the Becker County Department of Planning, Zoning, and Land Use, written facts, arguments or objectives before the scheduled date of the Hearing. These statements should bear upon the suitability of the location and the adequacy of the Project and should suggest any appropriate changes believed to be desirable. Replies may be addressed to:

PLANNING AND ZONING DEPARTMENT
915 Lake Avenue **FAX Number 218-846-7266**
Detroit Lakes, MN. 56501 **EMAIL: zoning@co.becker.mn.us**

If you have questions about the Project, feel free to call 218-846-7314.

Jurisdiction: This Project comes under the Regulatory Jurisdiction of the Becker County Zoning Laws.

Regulatory Authority: This Application will be reviewed according to the provisions of the Becker County Zoning Ordinance. The decision whether to issue a Permit will be based on an evaluation of the probable impact including cumulative impacts, of the proposed activity. That decision will reflect the concern for both protection and utilization of important resources. All factors, which may be relevant to the proposal, will be considered including the cumulative effects: Land Use, Shoreline Protection, Water Supply and Conservation, Safety, Economics, in General, the Needs and Welfare of the People.

** Weather conditions may change the Hearing date and time. If bad weather occurs, please listen to the local Detroit Lakes Radio Stations or contact the Zoning Office, by 4:30 PM on day of Hearing, for possible rescheduling of the Hearing.

PARCEL	
APP	ZONE / SURVEY
YEAR	
SCANNED	

SUBDIVISION / ZONE CHANGE
BECKER COUNTY
PLANNING & ZONING

915 LAKE AVENUE, DETROIT LAKES, MN 56501
PHONE (218) 846-7314 - FAX (218) 846-7266

Application for: X Zone Change (Complete Section 1) ____ Certificate of Survey (Complete Section 2) ____ Preliminary Plat (Complete Section 3)

Applicant's Name: CHAD STENERSON

Applicant's Address: 7414 E TURQUOISE AVE
SCOTTSDALE, AZ 85258

Telephone(s): 602-809-6661 **Date of Application:** 1/17/18

Signature of Applicant: [signature]

Parcel ID Number: 19042500 0 **Project Address:** 12673 CO HWY 17

Legal Description of Project:

OWNER WANTS TO BE ALLOWED TO HAVE COMMERCIAL SIGNAGE ON HWY 59

SECTION 1

*Zone Change For Existing Parcel Number 19042500 0
Current Zoning AG-CONDITIONAL USE Requested Zoning COMMERCIAL

SECTION 2

*Certificate Of Survey: Number of Lots ____
Shoreland (within 1000 ft of lake) ____ Nonshoreland ____
Current Zoning of property ____
Is a change of zone required? ____ yes ____ no
If yes, change from ____ Zone to ____ Zone.
Total acreage of parcel to be subdivided ____
**Include a copy of the purchase agreement if applicant is not the owner of the property.

SECTION 3

*For Preliminary Plat:
Number of Lots ____
Name of Subdivision ____
Name of Proposed Roads ____
Shoreland (within 1000 ft of lake) ____ Non-shoreland ____
Current Zoning of property ____
Is a change of zone required? ____ yes ____ no
If yes, change from ____ Zone to ____ Zone.
Total acreage of parcel to be subdivided ____
**Include a copy of the purchase agreement if applicant is not the property owner.

Date Received 1/22/18 Date Accepted 2-1-18 Authorized Signature [signature]
Application Fee 426.00 Notice Fee ____ Recording Fee ____ Date Paid 2/2/18
Receipt Number 118642-673644

RECEIVED
JAN 22 2018
ZONING

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.

Shady Hollow

1:6,162

Date: 1/26/2018

This map is not a substitute for accurate field surveys or for locating actual property lines and any adjacent features.

Becker County

Community Development Bank FSB

Phone: 218-983-3241 • Fax: 218-983-3243

516 Main Street

Ogema, MN 56569

Construction Loans • Lot Purchase

Ag Loans • Commercial Loans

Home Finance

Township 138N - Range 41W

Lake View

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SEE PAGE 31

SEE PAGE 13

SEE PAGE 17

Subject

OTTER TAIL COUNTY

COUNTY OF BECKER

Planning and Zoning

915 Lake Ave, Detroit Lakes, MN 56501

Phone: 218-846-7314 ~ Fax: 218-846-7266

PLANNING COMMISSION
NOTICE OF PUBLIC HEARING
HEARING DATE AND LOCATION

Tuesday, April 10, 2018 @ 7:00 P.M.

3rd Floor Jury Assembly Room New Addition-Becker County Courthouse
Detroit Lakes, MN 56501

APPLICANT: Jay & Arlene Kostelecky
1929 Pentland St.
West Fargo, ND 58078

Project Location: Co. Hwy. 5 & 6, Audubon, MN

APPLICATION AND DESCRIPTION OF PROJECT:
Request a Conditional Use Permit for a boat and RV storage facility.

LEGAL LAND DESCRIPTION: Tax ID number: **06.0038.020** PT SW1/4 SE1/4: BEG SE COR TH W 563.16' AL CSAH #6, TH NWLY 334.89' AL CSAH #5, ELY 641.48 TO E LN SW1/4 SE1/4, TH SLY 433.60' TO POB AKA TRACT D REF: PT 06.0038.000 IN 2008

Replies/Comments: Interested parties are invited to submit to the Becker County Department of Planning, Zoning, and Land Use, written facts, arguments or objectives before the scheduled date of the Hearing. These statements should bear upon the suitability of the location and the adequacy of the Project and should suggest any appropriate changes believed to be desirable. Replies may be addressed to:

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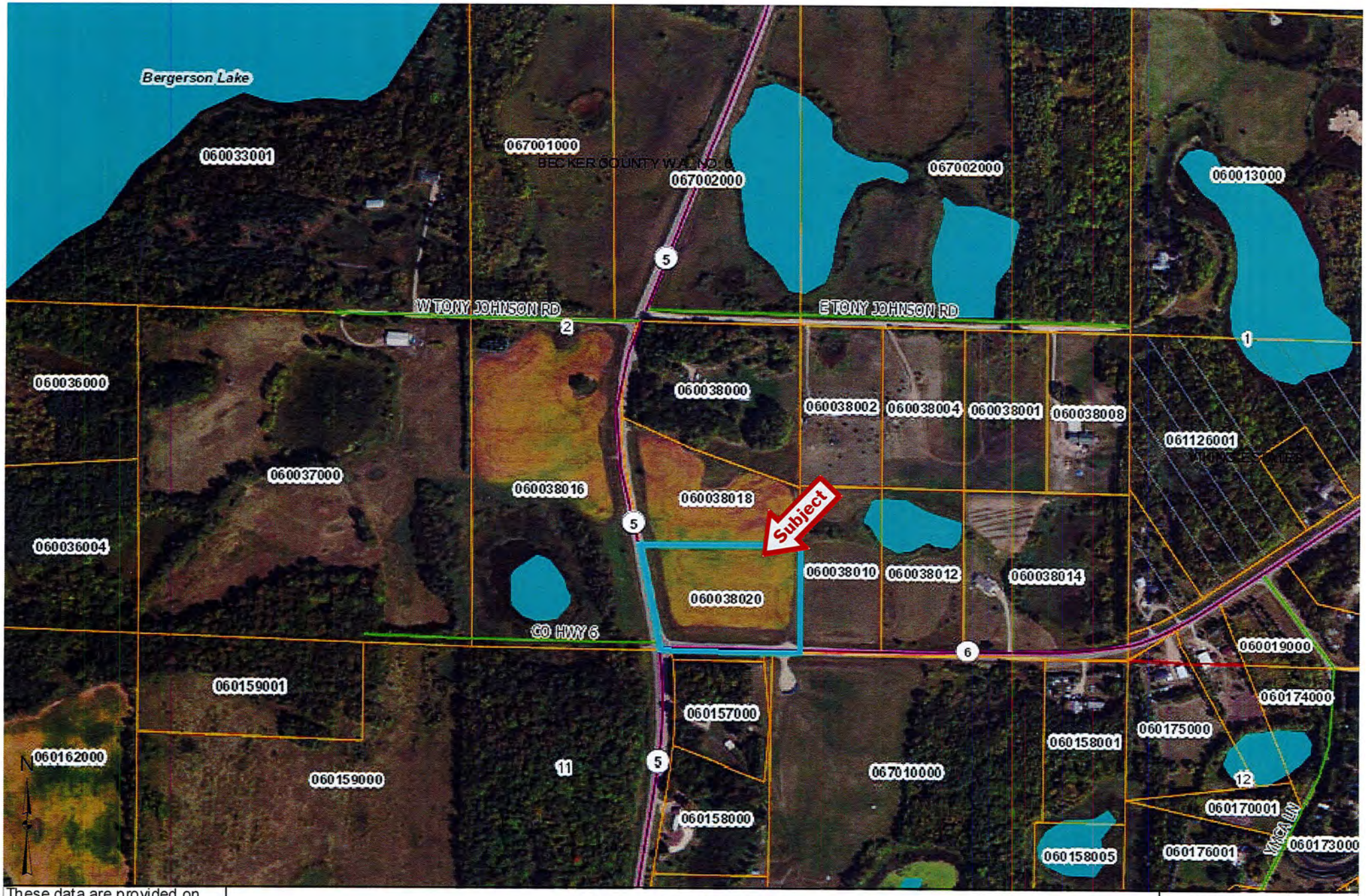

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Staber/Kostelecky

Becker County

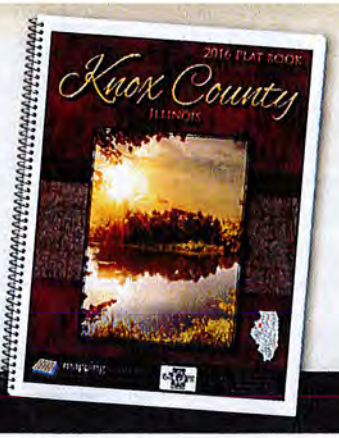
1:6,104

Date: 2/2/2018

This map is not a substitute for accurate field surveys or for locating actual property lines and any adjacent features.

We offer Plat Books in 16 states...

- Alabama
- Arkansas
- Florida
- Illinois
- Indiana
- Iowa
- Kansas
- Louisiana
- Michigan
- Minnesota
- Mississippi
- Missouri
- Oklahoma
- Ohio
- Pennsylvania
- Wisconsin



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Cormorant

Township 138N - Range 43W

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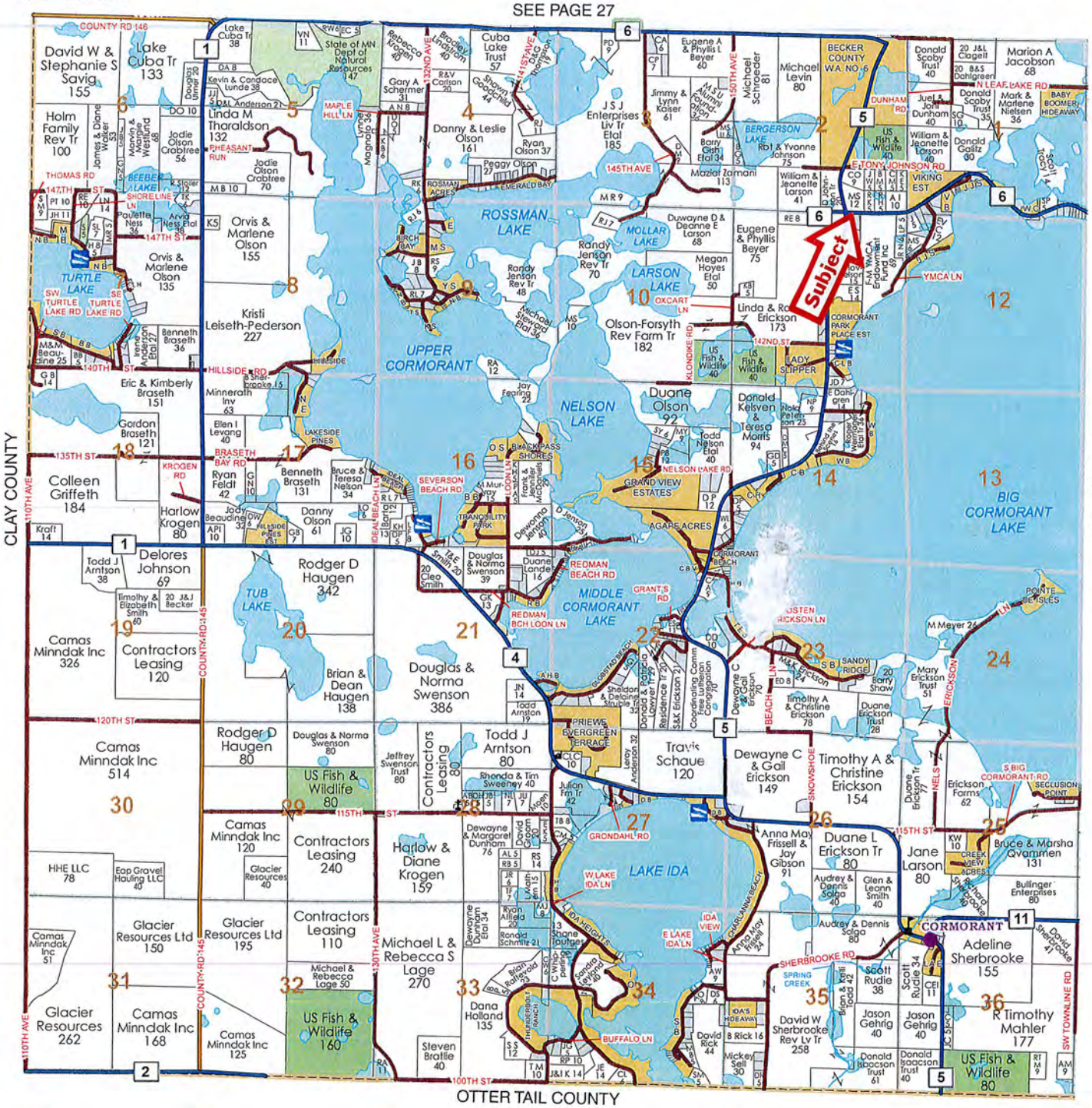
SEE PAGE 27


Subject
ROSSMAN LAKE
MOLLAR LAKE
LARSON LAKE
TURTLE LAKE
UPPER CORMORANT
NELSON LAKE
MIDDLE CORMORANT LAKE
BIG CORMORANT LAKE
TUB LAKE
LAKE IDA
BERGERSON LAKE
BECKER COUNTY W.A. NO. 6
CORMORANT
CLAY COUNTY
OTTER TAIL COUNTY
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Holm Family Rev Tr 100
Linda M Tharaldson 132
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Orvis & Marlene Olson 135
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Eric & Kimberly Braseth 151
Colleen Griffeth 184
Harlow Krogen 80
Delores Johnson 69
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Contractors Leasing 120
Brian & Dean Haugen 138
Douglas & Norma Swenson 386
Camas Minndak Inc 514
Rodger D Haugen 80
Douglas & Norma Swenson 80
US Fish & Wildlife 80
Todd J Arntson 80
Contractors Leasing 80
Travis Schaue 120
Dewayne C & Gail Erickson 149
Timothy A & Christine Erickson 154
Camas Minndak Inc 120
Contractors Leasing 240
Harlow & Diane Krogen 159
Contractors Leasing 110
Michael L & Rebecca S Lage 270
Anna May Frissell & Jay Gibson 91
Duane L Erickson Tr 80
Jane Larson 80
Bruce & Marsha Qvammen 131
HHE LLC 78
Eap Gravel Hauling LLC 40
Glacier Resources 40
Glacier Resources Ltd 150
Glacier Resources Ltd 195
Camas Minndak Inc 51
Glacier Resources 262
Camas Minndak Inc 168
Camas Minndak Inc 125
Michael & Rebecca Lage 50
US Fish & Wildlife 160
Steven Brattie 40
Dana Holland 135
David W Sherbrooke Rev Lv Tr 258
Adeline Sherbrooke 155
R Timothy Mahler 177
Scott Rudie 38
Jason Gehrig 40
Donald Isaacson Trust 61
Donald Isaacson Trust 40
US Fish & Wildlife 80
Olson-Forsyth Rev Farm Tr 182
Linda & Ro Erickson 173
Duane Olson 92
Donald Kelsven & Teresa Morris 94
Eugene & Phyllis Beyer 75
Randy Jenson Rev Tr 70
Megan Hoyes Etal 50
Duwayne D & Deanne E Larson 68
Danny & Leslie Olson 161
Peggy Olson 27
Ryan Olson 37
Cuba Lake Trust 57
J S J Enterprises Liv Tr Etal 185
Michael Schroeder 81
Michael Levin 80
Eugene A & Phyllis L Beyer 60
Jimmy & Lynn Kaiser 61
Barry Gish Etal 34
Maziar Zamani 113
William & Jeanette Larson 41
Donald Scoby Trust 40
Marion A Jacobson 68
Donald Scoby Trust 35
Donald Galitz 30
Mark & Marlene Nielsen 36
William & Jeanette Larson 40
Juel & Joni Dunham 40
Gary A Schermer 31
Rebecca Kingen 40
Bradley Lindstrom 40
Shawn Goodchild 44
Lake Cuba Tr 38
State of MN Dept of Natural Resources 147
Kevin & Candace Lunde 38
Douglas Ulmer 20
James & Diane Walker 20
Marvin & Margie Westlund 68
Jodie Olson Crabtree 56
Jodie Olson Crabtree 70
Pauvette Ness 36
Arvid Ness Etal 36
Jenny Anderson Etal 27
Bennett Braseth 36
Minnerath Inv 63
Ellen I Levang 40
Gordon Braseth 121
Ryan Feldt 42
Benneth Braseth 131
Bruce & Teresa Nelson 34
Danny Olson 61
Jody Beaudine 32
Todd J Arntson 38
Timothy & Elizabeth Smith 60
20 J&J Becker
Kraft 14
Douglas & Norma Swenson 39
Duane Landel 16
Cleo Smith 20
Jeffrey Swenson Trust 80
Rhonda & Tim Sweeney 40
Julian Fm Tr 42
Leroy Anderson 32
Dewayne & Margaret Dunham 76
David Cogan 40
Ryan Affield 20
Ronald Schmitz 21
Shane Tourtge 13
Brian Rafferty 33
Sandra Lyon 40
Dana Holland 135
Mickey Sell 30
David Rick 44
8 Rick 16
Jason Gehrig 40
Donald Isaacson Trust 61
Donald Isaacson Trust 40
Scott Rudie 34
Brian & Todd 42
Audrey & Dennis Solga 80
Audrey & Dennis Solga 40
Glen & Leann Smith 40
Bullinger Enterprises 80
Erickson Farms 62
Mary Erickson Trust 51
Duane Erickson Tr 77
Duane Erickson Trust 28
Timothy A & Christine Erickson 78
Dewayne & Gail Erickson 70
Sheldon & Delaine Struble Tr 32
Donald & Patricia Royer Tr 20
S&K Erickson 21
Coordinating Comm Free Lutheran Congregation 70
Todd Arntson 19
Julie Erickson 24
Barry Shaw 20
Sandy Ridge
M Meyer 24
Pointe Des Isles
Seclusion Point
Creek View Acres
Lake Ida Beach
Ida Heights
Ida View
Ida's Hideaway
Spring Creek
Thunderbird Ranch
Buffalo Ln
Grandahl Rd
Redman Beach Rd
Redman Bch Loon Ln
Severson Beach Rd
Nelson Lake Rd
Grand View Estates
Agape Acres
Cormorant Beach
Cormorant Park Place East
Lady Slipper
Viking Est
Tony Johnson Rd
Dunham Rd
N Leaf Lake Rd
Baby Boomer Hideaway
Rosman Acres
Emerald Bay
Birch Bay
Maple Hill Ln
Pheasant Run
Beebers Lake Shoreline
Turtle Lake Rd
Sw Turtle Lake Rd
Lakeside Pines
Hillside Rd
Braseth Bay Rd
Kroger Rd
Ideal Beach Ln
Transquility Park
Ymca Ln
Klondike Rd
Oxcart Ln
Thomas Rd
147th St
140th St
135th St
120th St
115th St
100th St
142nd St
145th Ave
150th Ave
130th Ave
110th Ave
32nd Ave
County Rd 145
County Rd 146
Sw Townline Rd
Sherbrooke Rd
Big Cormorant Rd
Eckerson
Nels
Snowshoe
Beach Ln
Listen Rickson Ln
Gilbertson Beach
Sunset Beach
Prieve Evergreen Terrace
Grant S Rd
Lake Ida Beach
Ida Heights
Ida View
E Lake Ida Ln
W Lake Ida Ln

~ CONDITIONAL USE APPLICATION ~

BECKER COUNTY PLANNING & ZONING

915 LAKE AVENUE, DETROIT LAKES, MN 56501
PHONE (218) 846-7314 - FAX (218) 846-7266

PARCEL	
APP	CUP
YEAR	
SCANNED	

APPLICANT Auth. Agent Info See purchase Agreement Attached.

PROPERTY OWNER INFORMATION (as it appears on tax statement, purchase agreement or deed)

First name(s): Jay G. and Arlene K Last name: Kostelecky

Mailing Address: 1929 Pentland Street City, State, Zip West Fargo, ND 58078

Phone Number(s): 701-282-4241 Project Address:

Parcel number(s) of property: 060038020 and 060038018 Sect - Twp - Range: 02-138-043

Township Name: Cormorant Legal Description: See attached Letter of Intent for complete legal description.

REASON FOR CONDITIONAL USE REQUEST: Zoned agricultural. Building boat and RV storage facility.

The information provided for this document is truthful and accurate to the best of my knowledge. I understand that this statement is null and void if any of the above information is not supplied or is inaccurate.

Jay G Kostelecky Arlene K. Kostelecky — SIGNATURE OF APPLICANT

2/1/18 — DATE

OTHER INFORMATION NEEDED TO COMPLETE THE APPLICATION:

1. A copy of the deed from the Recorder's Office;
2. Completed Site Application with sketch showing all setbacks, platted or surveyed dimensions of the lot and all existing and proposed buildings; parking area and all other materials deemed necessary.
3. Non-refundable filing fee of $326.00. If in Cormorant Township add $25.00 surcharge to the filing fee ($351.00). **Make check payable to Becker County Zoning.**
4. **Is the conditional use permit request after the fact? [ ] Yes [X] No**
   If yes, after the fact application fee is an additional $600.00.

****

Office Use Only

This application is hereby (accepted) or (rejected) as presented.

[signature] — SIGNATURE – ZONING ADMINISTRATOR

2-14-18 — DATE

PARCEL	
APP	CUP
YEAR	

BUSINESS PLAN

Name of Business: Elite Boat and RV Storage

Owners of Business: Jay G. and Arlene K. Kostelecky

Type of Business: Retail Sales Service (Other)

Type of Merchandise: None

Type of Service: Storage for watercraft, RV's, vehicles

Hours of Operation: 24-7

Number of Employees: None

Off – street Parking Plan: NA

Size of Structure to be used for Business: (1) 80'X130'; (2) 40'X170'

New Structure: Yes Existing Structure:

Signage Plan: 1 sign on County Road 5 and 1 sign on County Road 6.

Exterior Lighting Plan: Security lighting on property.

Environmental Hazards: None

Other Comments: Plan includes well, septic system and security fencing on perimeter.

Please answer the following questions as they relate to your specific CUP request:

1. **Effect on surrounding property.** That the conditional use will not harm the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminish or impair property values within the immediate vicinity.

None - the plan includes well built steel buildings with curb appeal and landscaping.

2. **Effect on orderly, consistent development.** That establishing the conditional use will not impede the normal, orderly development and improvement of surrounding vacant property for uses predominant in the area.

Should have a positive effect on surrounding properties.

3. **Adequate facilities.** That adequate utilities, access roads, drainage and other necessary facilities have been or are being provided.

Electrical power already exists on property. Plan to widen approach as per county spec. on County Road 6.

Landscaping will maintain current natural drainage of property.

4. **Adequate parking.** That adequate measures have been or will be taken to provide sufficient off-street parking and loading space to serve the proposed use.

There will be outdoor parking available for storage of watercraft and RV's that will be fenced and out of public view.

5. **Not a nuisance.** That adequate measures have been or will be taken to prevent or control offensive odor, fumes, dust, noise and vibration, so none of these will constitute a nuisance, and to control lighted signs and other lights so that no disturbance to neighboring properties will result.

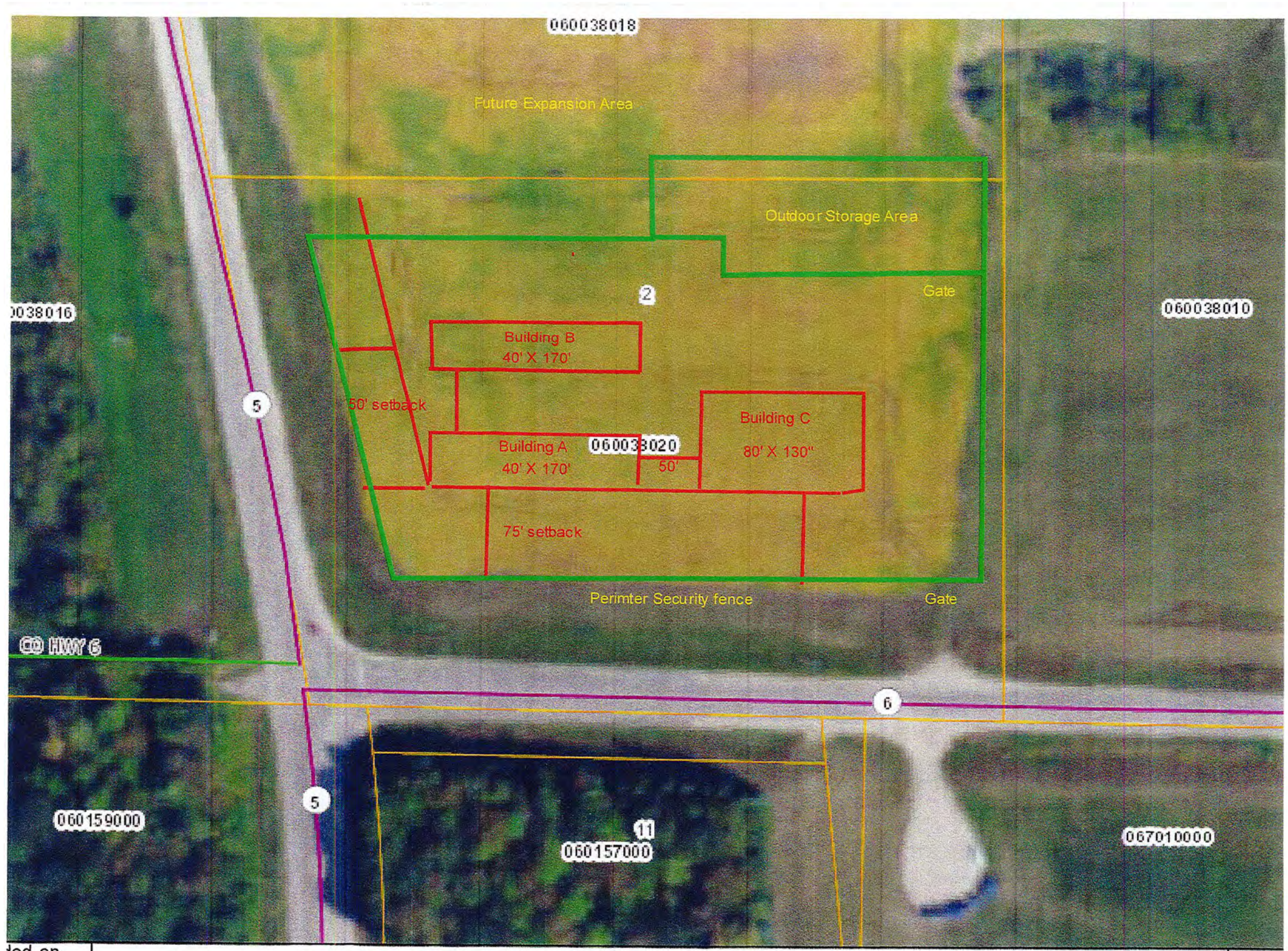
Signs will not be lit and security lighting will be designed to light property with no disturbance to neighboring properties.

6. **Additional criteria for shoreland areas.** In Shoreland areas, it shall be found that adequate measures have been or will be taken to assure that:
   a. **Pollution.** Soil erosion or other possible pollution of public waters will be prevented, both during and after construction;

   b. **View from public waters.** That the visibility of structures and other facilities as viewed from public waters will be limited;

   c. **Adequate utilities.** That the site is adequate for water supply and on-site sewage treatment; and

   d. **Watercraft.** That the types, uses, and number of watercrafts that the project will generate can be safely accommodated.



Flite Boat and RV Storage lot layout

Letter of Intent to Sell/Purchase Land

To whom it may concern:

Mike and Vicki Staber "Seller" have entered into a letter of intent to sell two parcels of land to Jay and Arlene Kostelecky "Buyer." The two parcels of land are located in Becker County, MN; Cormorant Township; on the NE intersection of Becker County Highway 5 and 6, and are described below:

Parcel Number: 060038020

Legal Description: Section 02 Township 138 Range 043
PT SW1/4 SE1/4: BEG SE COR TH W 563.16' AL CSAH #6, TH NWLY 334.89' AL CSAH #5, ELY 641.48 TO E LN SW1/4 SE1/4, TH SLY 433.60' TO POB AKA TRACT D REF: PT 06.0038.000 IN 2008

Parcel Number: 060038018

Legal Description: Section 02 Township 138 Range 043
PT SW1/4 SE1/4: COMM S QTR COR TH E 749.63' TO CTR LN CSAH #5 TH N AL HWY 430.17' TO POB; N AL HWY 520.18', SELY 307.87', SELY 462.25' TO E LN SW1/4 OF SE1/4, S 231.61', TH W 641.48' TO POB AKA TRACT C

Mike Staber
Seller - Mike Staber

Jay Kostelecky
Buyer - Jay Kostelecky

Vicki Staber
Seller - Vicki Staber

Arlene Kostelecky
Buyer - Arlene Kostelecky

1/31/18
Date

1/31/18
Date

Authorized Agent Form

1. Form must be legible and completed in ink.
2. Check appropriate box(es). Write any specific restrictions on the checked item in the space provided (e.g. "garage site permit" or "valid only on permit applications submitted between 06/01/20XX and 08/01/20XX"). If you want your agent to represent you on a conditional use or variance application and also be authorized to obtain the related permit(s), be sure to check and complete the "permit application" item as well. If an item's box is checked and the accompanying space is left blank, the authorization granted on that item is valid for a period of one year from the date of signature on this form until Becker County Planning and Zoning receives signed, written notification from the property owner(s) stating otherwise or the property's ownership changes.

I (we), Mike & Vicki Staber (landowner-print name) hereby authorize Jay & Arlene Kostelecky (agent-print name) to act as my (our) agent on the following item(s): appropriate box(es)

☒ permit application (write in permit "type" – e.g. site, septic, etc.): _____

☐ plat application: _____

☒ conditional use application: Building boat & RV Storage

☐ variance application: _____

☐ other: _____

on my (our) property located at:
Tax Parcel Number(s): 06.0038.020 & 06.0038.018 Physical Site Address: 605 & 606

Legal Description: _____

Section: 02 Township: 138 Range: 43 Lot: _____ Block: _____ Plat Name: _____

Agent Contact Information

Agent address: 1929 Pentland St (Street) West Fargo (City) ND (State) 58078 (Zip Code)

Agent phone #(s): 701-282-4241 Agent fax #: _____

Agent email address: ajkost83@gmail.com

Mike Staber
Property Owner(s) Signature(s)

2 6 18
Date

State of Minnesota
County of Becker

On this 6 day of February before me personally appeared Michael Staber

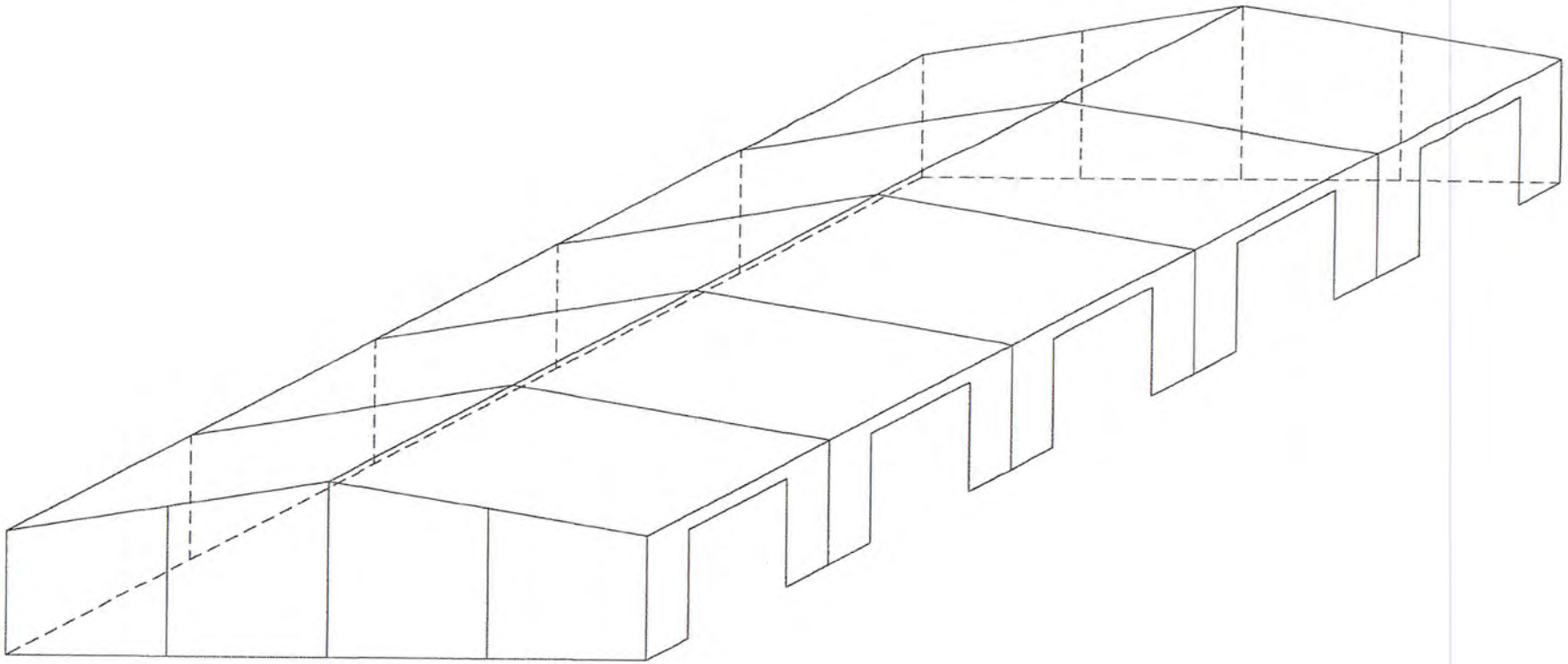
to me known to be the person(s) described in and who executed the foregoing instrument; and acknowledged that Michael Staber executed the same as _____ free act and deed.

(Notary Stamp)

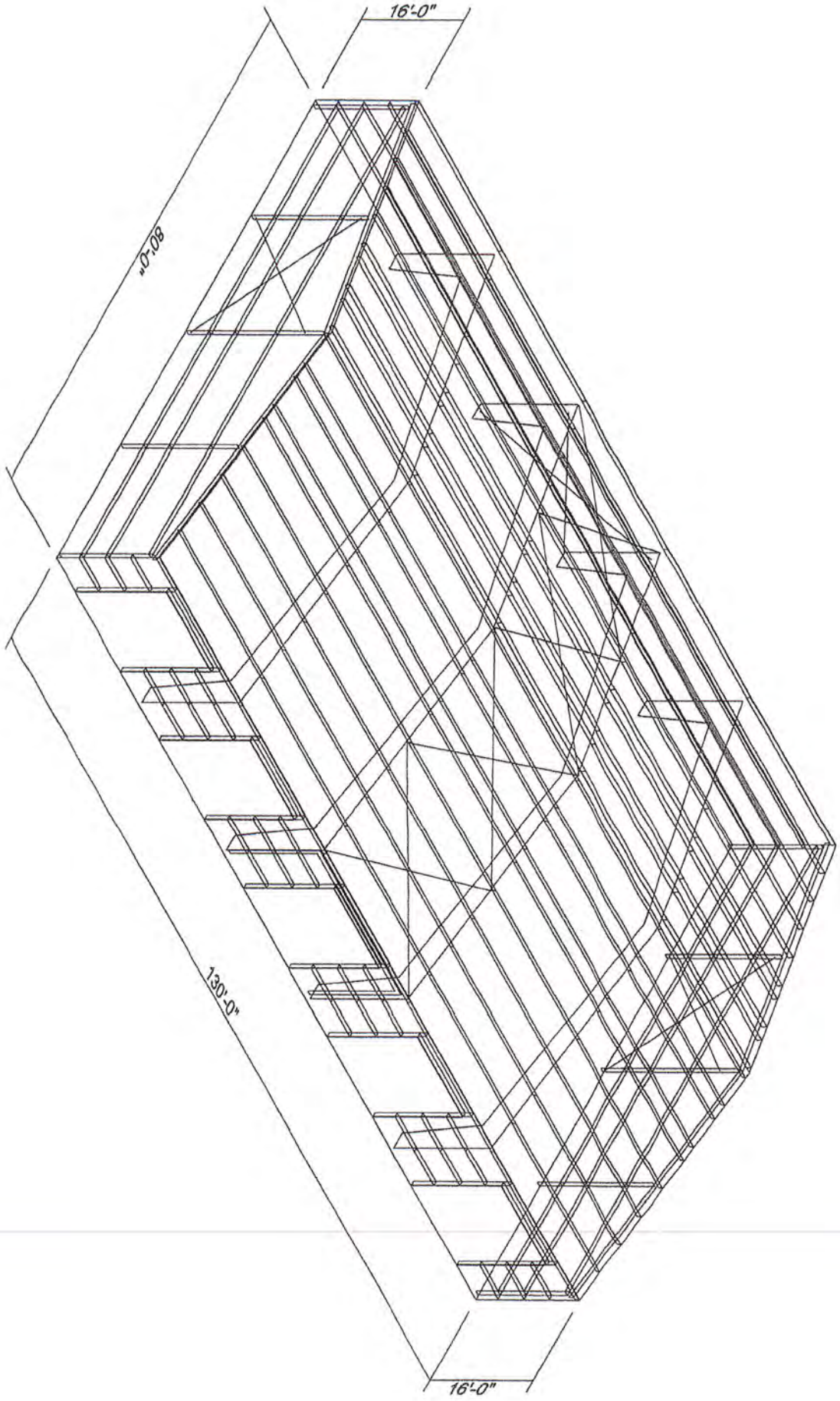
MISSTY M BLAINE
Notary Public - State of Florida
Commission # FF 942394
My Comm. Expires Dec 9, 2019
Bonded through National Notary Assn.

Misty M Blaine
Notary Public

Office Use Only:
Date received: _____ **Expiration Date:** _____



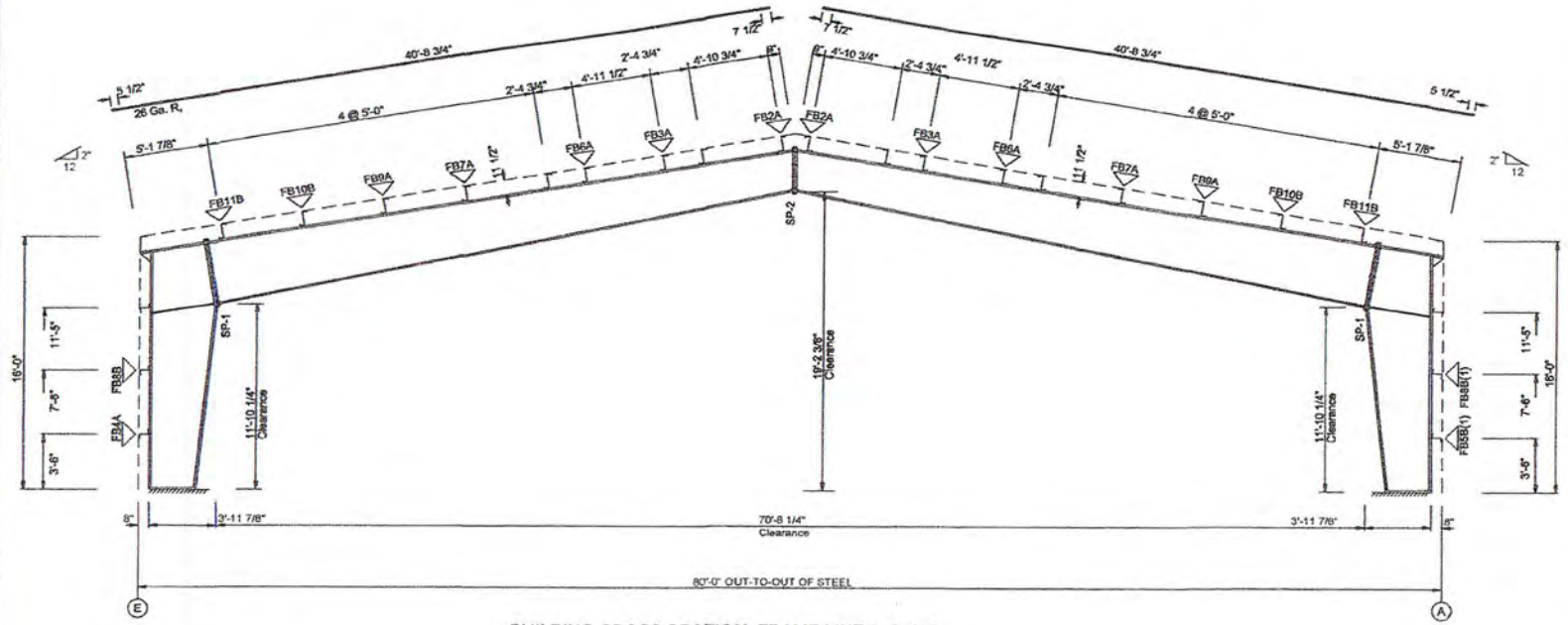
80X130X16STABER Building Layout 1/31/18


16'-0"
130'-0"
16'-0"

SPLICE BOLT TABLE

Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	6	A325	1.000	3.25
SP-2	4	4	4	A325	0.750	2.00

FLANGE BRACES: Both Sides(U.N.)
FBxxA(1)
A - L15X1/8
B - L20X3/16



BUILDING CROSS SECTION: FRAME LINE 2 3 4 5

GENERAL NOTES:

1. See Detail Sheets for Connection Information.
2. See Shipping List for Flange Brace Lengths.

80'-0" x 130'-0" x 16'-0"
DATE: 1/31/18 REVISION: 0
ENG: DWN: APPD:

F.O. 80X130X16STABER

REVISION HISTORY

REV.	DESCRIPTION	DATE

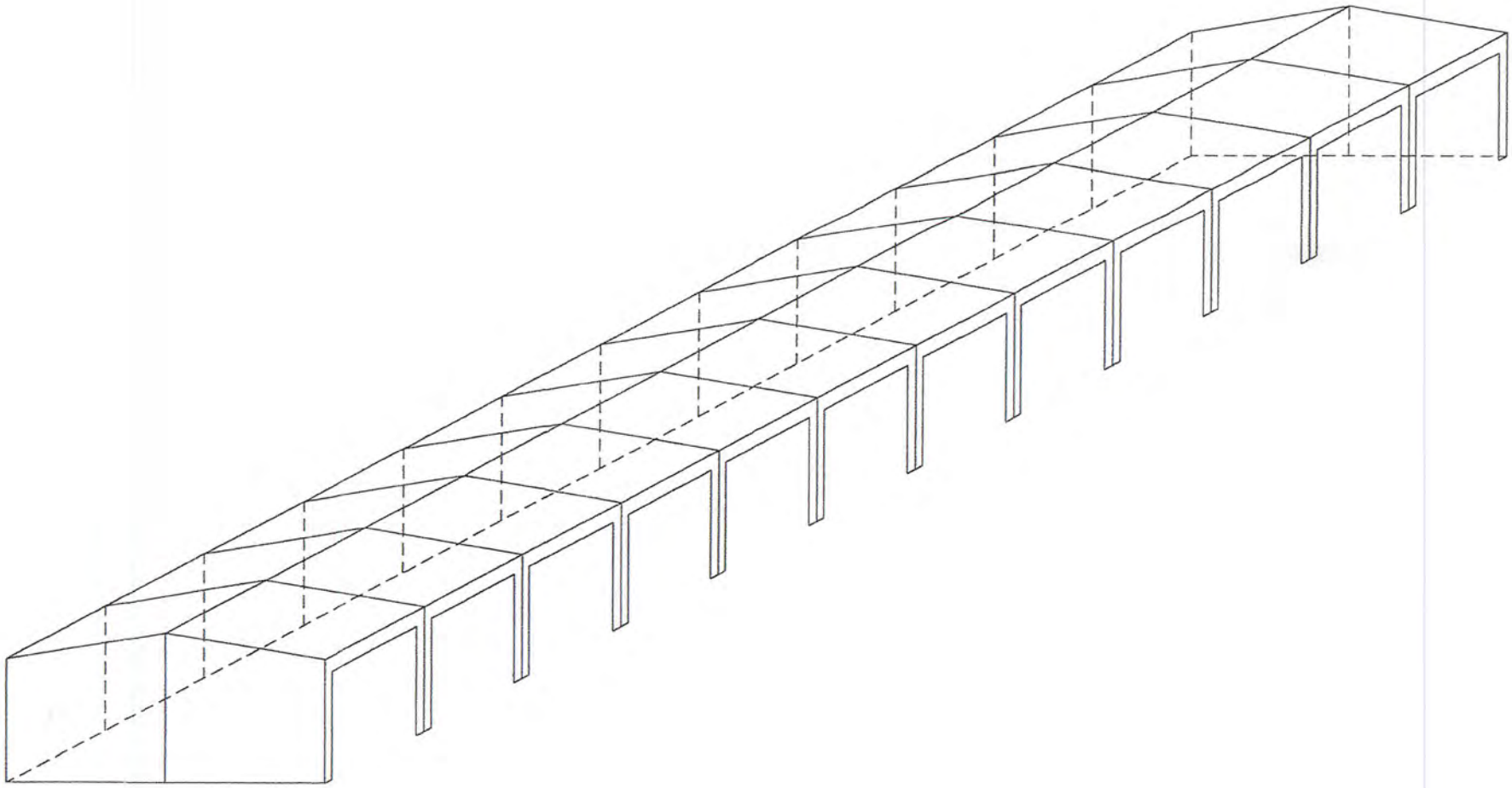
DRAWING STATUS

FOR APPROVAL:
THESE DRAWINGS, BEING FOR APPROVAL, ARE BY DEFINITION NOT FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.

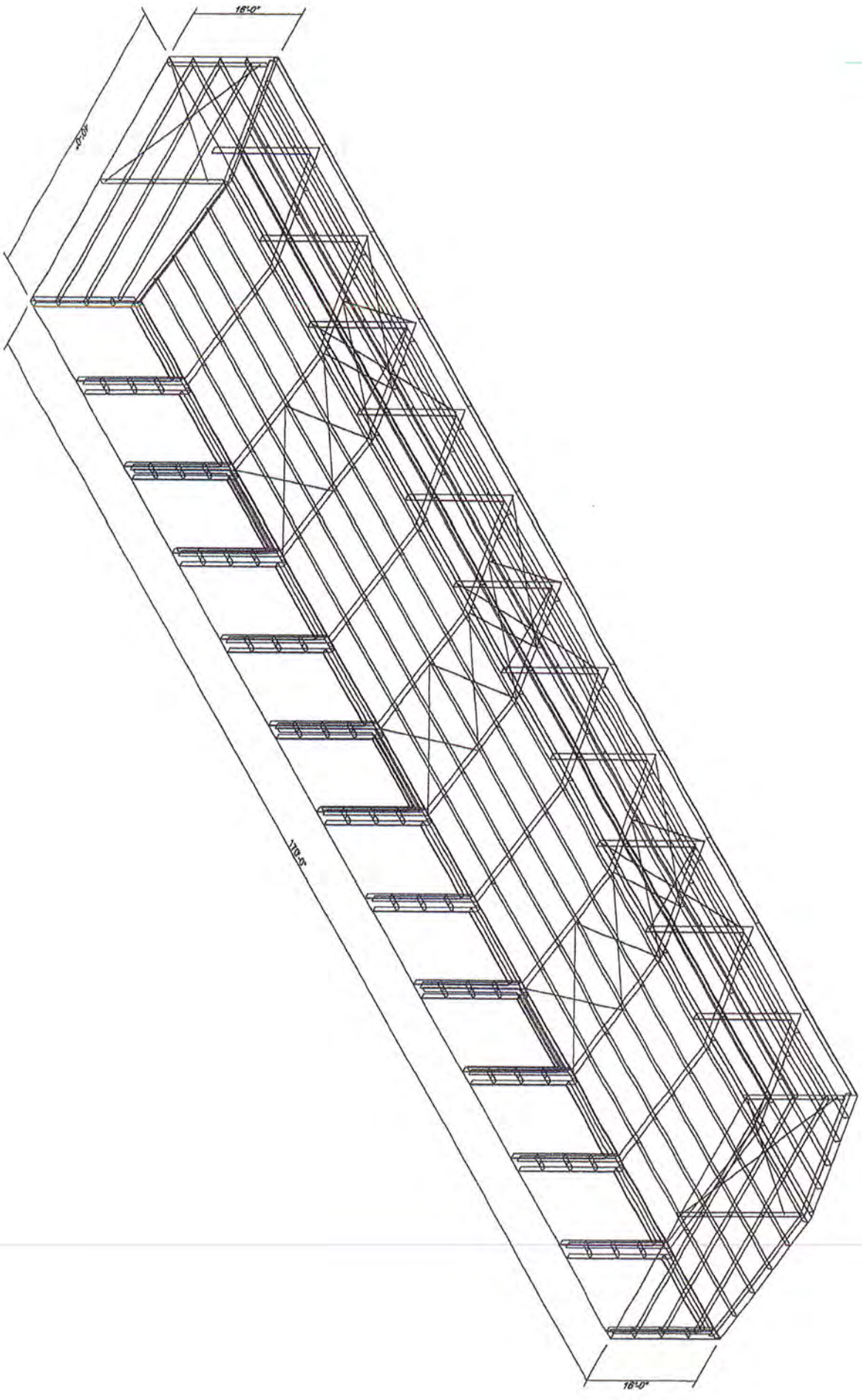
FOR PERMIT:
THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.

FOR CONSTRUCTION:
FINAL DRAWINGS.

PAGE OF

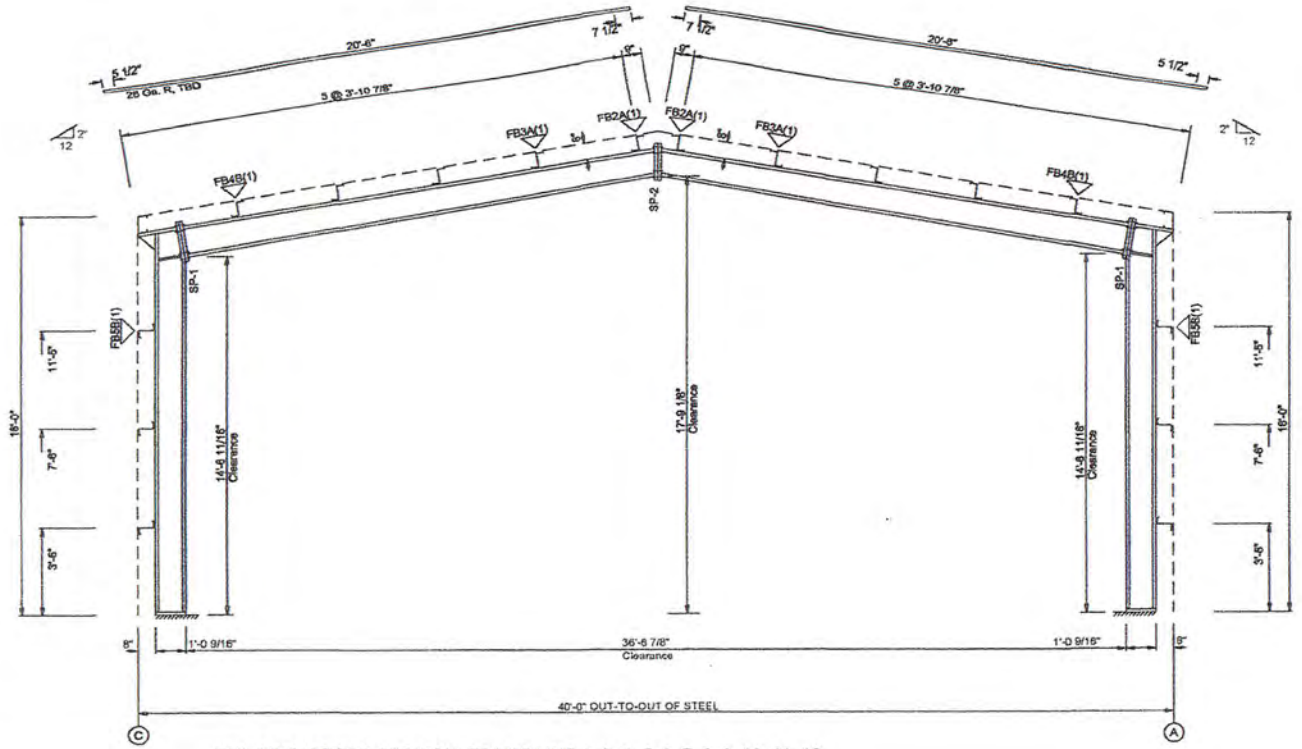


40x170x16STABER | Building Layout | 1/31/18


18'-0"
8'-0"
170.5"
18'-0"

SPLICE BOLT TABLE						
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	0	A325	0.750	2.25
SP-2	4	4	0	A325	0.750	2.00

▽ FLANGE BRACES: Both Sides(U.N.)
FBxxB(1)
B - L20X3/16
A - L15X1/8



BUILDING CROSS SECTION: FRAME LINE 2 3 4 5 6 7 8 9 10 11 12

GENERAL NOTES:

1. See Detail Sheets for Connection Information.
2. See Shipping List for Flange Brace Lengths.

F.O. 40x170x16STABER

40'-0" x 170'-0" x 16'-0"
DATE: 1/31/18 | REVISION: 0
ENG: | DWN: | APPD:

REVISION HISTORY
REV. | DESCRIPTION | DATE

DRAWING STATUS
☐ FOR APPROVAL:
THESE DRAWINGS, BEING FOR APPROVAL, ARE BY DEFINITION NOT FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE CONTRACT DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.
☐ FOR PERMIT:
THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.
☐ FOR CONSTRUCTION:
FINAL DRAWINGS.

PAGE OF

602856

CERTIFICATE OF REAL ESTATE VALUE FILED #8876

No delinquent taxes and transfer entered this 16th day of NOV, 20 12

Ryan L. Jangen
Becker County Auditor/Treasurer

By _____ Deputy

BECKER COUNTY RECORDER
STATE OF MINNESOTA
Document No. 602856
November 16, 2012 at 1:42 PM
I hereby certify that the within instrument was recorded in this office.
Darlene Maneval, County Recorder
By _SKS_____ Deputy

BECKER COUNTY DEED TAX
AMT. PD. $ 198.00
Receipt # 520604
Becker County Auditor/Treasurer

5-M WARRANTY DEED
Individual(s) to Joint Tenants

STATE DEED TAX DUE HEREON: $ 198.00

Date: November 9, 2012

Parcel # 06.0038.018 06.0038.020 *

FOR VALUABLE CONSIDERATION, **Dennis L. Johnson and Carma V. Johnson**, husband and wife, Grantor(s), hereby convey(s) and warrant(s) to **Mike Staber and Vicki Staber**, Grantees, as joint tenants, real property in Becker County, Minnesota, described as follows:

06.0038.018

Tract C:
That part of the Southwest Quarter of the Southeast Quarter in Section 2, Township 138 North, Range 43 West of the Fifth Principal Meridian in Becker County, Minnesota, described as follows:

Commencing at a found iron monument which designates the south quarter corner of said Section 2; thence North 89 degrees 43 minutes 57 seconds East 749.63 feet on an assumed bearing along the south line of said Section 2 to the centerline of County State Aid Highway No. 5; thence northerly along the centerline of said County State Aid Highway No. 5 on a curve concave to the west, having a central angle of 03 degrees 20 minutes 05 seconds and a radius of 1637.02 feet, for a distance of 95.28 feet (chord bearing North 10 degrees 45 minutes 48 seconds West); thence North 12 degrees 25 minutes 51 seconds West 334.89 feet continuing along the centerline of said County State Aid Highway No. 5 to the point of beginning; thence continuing North 12 degrees 25 minutes 51 seconds West 269.45 feet along the centerline of said County State Aid Highway No. 5; thence northerly continuing along the centerline of said County State Aid Highway No. 5 on a curve concave to the east, having a central angle of 11 degrees 16 minutes 58 seconds and a radius of 1273.24 feet, for a distance of 250.73 feet (chord bearing North 06 degrees 47 minutes 22 seconds West); thence South 67 degrees 15 minutes 14 seconds East 82.54 feet to an iron monument; thence continuing South 67 degrees 15 minutes 14 seconds East 225.33 feet to an iron monument; thence South 71 degrees 37 minutes 38 seconds East 462.25 feet to a found iron monument on the east line of said Southwest Quarter of the Southeast Quarter; thence South 01 degree 33 minutes 08 seconds East 231.61 feet along the east line of said Southwest Quarter of the Southeast Quarter to an iron monument; thence South 88 degrees 37 minutes 16 seconds West 565.06 feet to an iron monument; thence continuing South 88 degrees 37 minutes 16 seconds West 76.42 feet to the point of beginning.

SUBJECT TO County State Aid Highway No. 5 right of way easement over, under and across that part of the above tract described as follows:

chg
paid
well
non/std
extra

Beginning at the aforementioned point of beginning; thence North 12 degrees 25 minutes 51 seconds West 269.45 feet along the centerline of said County State Aid Highway No. 5; thence northerly continuing along the centerline of said County State Aid Highway No. 5 on a curve concave to the east, having a central angle of 11 degrees 16 minutes 58 seconds and a radius of 1273.24 feet, for a distance of 250.73 feet (chord bearing North 06 degrees 47 minutes 22 seconds West); thence South 67 degrees 15 minutes 14 seconds East 82.54 feet to an iron monument; thence southerly on a curve concave to the east, having a central angle of 09 degrees
41 minutes 02 seconds and a radius of 1198.24 feet, for a distance of 202.52 feet (chord bearing South 07 degrees 35 minutes 20 seconds East); thence South 12 degrees 25 minutes 51 seconds East 284.10 feet to an iron monument; thence South 88 degrees 37 minutes 16 seconds West 76.42 feet to the point of beginning of said County State Aid Highway No. 5 right of way easement.

5-M WARRANTY DEED
Individual(s) to Joint Tenants

Tract D: 04-0038-020

That part of the Southwest Quarter of the Southeast Quarter in Section 2, Township 138 North, Range 43 West of the Fifth Principal Meridian in Becker County, Minnesota, described as follows:

Commencing at a found iron monument which designates the south quarter corner of said Section 2; thence North 89 degrees 43 minutes 57 seconds East 749.63 feet on an assumed bearing along the south line of said Section 2 to the centerline of County State Aid Highway No. 5, said point is the point of beginning; thence northerly along the centerline of said County State Aid Highway No. 5 on a curve concave to the west, having a central angle of 03 degrees 20 minutes 05 seconds and a radius of 1637.02 feet, for a distance of 95.28 feet (chord bearing North 10 degrees 45 minutes 48 seconds West); thence North 12 degrees 25 minutes 51 seconds West 334.89 feet continuing along the centerline of said County State Aid Highway No. 5; thence North 88 degrees 37 minutes 16 seconds East 76.42 feet to an iron monument; thence continuing North 88 degrees 37 minutes 16 seconds East 565.06 feet to an iron monument on the east line of said Southwest Quarter of the Southeast Quarter; thence South 01 degree 33 minutes 08 seconds East 372.23 feet along the east line of said Southwest Quarter of the Southeast Quarter to a found iron monument, said point is hereinafter referred to as Point A; thence continuing South 01 degree 33 minutes 08 seconds East 61.37 feet along the east line of said Southwest Quarter of the Southeast Quarter to the southeast corner of said Southwest Quarter of the Southeast Quarter; thence South 89 degrees 43 minutes 57 seconds West 487.30 feet along the south line of said Section 2 to a point hereafter referred to as Point B; thence continuing South 89 degrees 43 minutes 57 seconds West 75.86 feet along the south line of said Section 2 to the point of beginning.

SUBJECT TO County State Aid Highway No. 5 right of way easement over, under and across that part of the above tract described as follows:

Beginning at the aforementioned point of beginning; thence northerly along the centerline of said County State Aid Highway No. 5 on a curve concave to the west, having a central angle of 03 degrees 20 minutes 05 seconds and a radius of 1637.02 feet, for a distance of 95.28 feet (chord bearing North 10 degrees 45 minutes 48 seconds West); thence North 12 degrees 25 minutes 51 seconds West 334.89 feet continuing along the centerline of said County State Aid Highway No. 5; thence North 88 degrees 37 minutes 16 seconds East 76.42 feet to an iron monument; thence South 12 degrees 25 minutes 51 seconds East 320.24 feet; thence southerly on a curve concave to the west, having a central angle of 01 degree 31 minutes 39 seconds and a radius of 1712.02 feet, for a distance of 45.64 feet (chord bearing South 11 degrees 40 minutes 01 second East); thence southerly on a curve concave to the west, having a central angle of 02 degrees 11 minutes 49 seconds and a radius of 1712.02 feet, for a distance of 65.65 feet (chord bearing South 09 degrees 48 minutes 17 second East) to the south line of said Section 2 at the aforementioned Point B; thence South 89 degrees 43 minutes 57 seconds West 75.86 feet along the south line of said Section 2 to the point of beginning of said County State Aid Highway No. 5 right of way easement.

AND FURTHER SUBJECT TO County State Aid Highway No. 6 right of way easement over, under and across that part of the above tract described as follows:

Beginning at a found iron monument at the aforementioned Point A; thence South 01 degree 33 minutes 08 seconds East 61.37 feet along the east line of said Southwest Quarter of the Southeast Quarter to the southeast corner of said Southwest Quarter of the Southeast Quarter; thence South 89 degrees 43 minutes 57 seconds West 487.30 feet along the south line of

5-M WARRANTY DEED
Individual(s) to Joint Tenants

said Section 2 to the aforementioned Point B; thence northerly along the easterly right of way line of said County State Aid Highway No. 6 on a curve concave to the west, having a central angle of 02 degrees 11 minutes 49 seconds and a radius of 1712.02 feet, for a distance of 65.65 feet (chord bearing North 09 degrees 48 minutes 17 seconds West); thence South 89 degrees 52 minutes 40 seconds East 496.82 feet to the point of beginning of said County State Aid Highway No. 6 right of way easement.

together with all hereditaments and appurtenances belonging thereto, subject to the following exceptions:

Covenants, Easements and Restrictions of Record, if any.

Check Box if Applicable:

- [x] The Seller certifies that the seller does not know of any wells on the described real property.
- [ ] A well disclosure certificate accompanies this document.
- [ ] I am familiar with the property described in this instrument and I certify that the status and number of wells on the described real property have not changed since the last previously filed well disclosure certificate.

Dennis L. Johnson

Carma V. Johnson

STATE OF Washington)
)ss.
COUNTY OF Thurston)

The foregoing instrument was acknowledged before me on NOV 9 2012, by Dennis L. Johnson and Carma V. Johnson, husband and wife, Grantor(s).

NOTARIAL STAMP OR SEAL (OR OTHER TITLE OR RANK)

Notary Public
State of Washington
CESAR R MACIAS
My Appointment Expires May 13, 2015

SIGNATURE OF PERSON TAKING ACKNOWLEDGEMENT

Check here if part or all of the land is Registered (Torrens) ☐

Tax Statements for the real property described in this instrument should be sent to (include name and address of Grantee):

5-M WARRANTY DEED
Individual(s) to Joint Tenants

THIS INSTRUMENT WAS DRAFTED BY (NAME AND ADDRESS)

Becker County Title Services, Inc.
828 Minnesota Avenue
Detroit Lakes, MN 56501
Order No.: 27264

TO:

Mike Staber
Vicki Staber
~~15209 County Hwy 5~~
~~Lake Park, MN 56554~~
6408 1ST St N
Moorhead, MN 56560

REQUEST TO COMBINE PARCELS

Requirements to combine property:

1. Parcels must be in the same township and the same section.
2. Parcels must be owned by the same party.
3. All taxes must be paid in full, current and prior.
4. Parcels must be contiguous.

I/We request that the County Auditor-Treasurer combine the following parcels for the next tax year.

Parcel # 06.0038.020

Parcel # 06.0038.018

Parcel # _____

Signature of Owner(s) Jay Kostelecky

Phone contact 701-282-4241

Email AJKost83@Gmail.com

Date of Request 2-15-18

Application for Site Permit
Becker County Planning and Zoning
915 Lake Ave, Detroit Lakes, MN 56501
Phone: 218-846-7314 Fax: 218-846-7266

Website: www.co.becker.mn.us Email: zoning@co.becker.mn.us

PARCEL	
APP	SITE
YEAR	
SCANNED	

Property will be staked by
Date: TBD - Spring

Please Print or Type All Information

Parcel Number (s)	Property (E911) Address	**911 Address Needed	Legal Description
06.0038.018 06.0038.020			See Attached

Lake/River Name	Lake/River Class	Township Name	Section	TWP No.	Range
		Cormorant	2	138	43

Property Owner	Last Name	First Name	Mailing Address	Phone
	Staber	Mike	6408 1st St N. Moorhead, MN 56560	
Contractor Name Lic #				

RECEIVED
FEB 13 2018

Proposed Project (Check those that apply)

___ New Dwelling	___ Addition to Dwelling	___ Replacement Dwelling*	___ Mobile/Manfac. Home
___ Attached Garage	___ Detached Garage	X Storage Structure	___ Addition to Non-dwelling
___ Stairway	___ Deck	___ Recreational Unit	___ Water Oriented Structure
___ Fence	___ Other _____	___ Non Conforming Replacement (identify) _____	

*Existing Dwelling to be removed prior to _____

Onsite Water Supply ( ) Deep Well ( ) Shallow Well Well Depth _____
MN Rules Chapter 4725 (MN well code) requires a 3' minimum structure setback to well
If New/Proposed: Proposed Septic Contractor:_____ Contractor Phone Number:_____
Onsite Sewage Treatment System
Type of System _____ Date of Installation _____ Last Date Certified _____
Must have current certificate of compliance on septic system prior to issuance of a permit

Lot Information **Shoreland**(with in 1000ft) ___ ( ) **Riparian**(on water) ( ) **Non Riparian** **Non Shoreland** X

Lot Area 487,162 sq ft or 11 acres Water Frontage _____ ft Bluff ( ) Yes ( ) No
Impervious coverage refers to anything water cannot pass through. Structures, areas covered by a roof, concrete, asphalt, Class 5, sidewalks, patio pavers, etc. should all be included in this calculation. Decks should be included in this calculation if they have plastic underlayment or impervious surface underneath. Anytime you exceed 15% lot coverage a stormwater management plan and/or mitigation is required. ***INCLUDE PROPOSED STRUCTURES IN CALCULATION.***

Please Note: *Unless otherwise provided, a minimum of a 12 foot wide driveway from the nearest road right of way to the proposed structure must be included in both your plan and impervious surface calculation.*

Impervious Surface On property	Dimensions	Sq. Footage	Impervious Surface On property	Dimensions	Sq. Footage
Example: Patio	10 x 12	120			
DRIVEWAY			Class 5 yard & driveway	200x430	86,000
Buildings	(2) 40x170	(1) 80x130 = 24,000			
				Total Impervious Material	

Impervious Lot Coverage 86,000 ÷ 487,162 = .17.6 x 100 = 17.6 %
Total Impervious / Lot Area / Impervious Coverage Percentage

Topographical Alteration/Earth moving:

( ) None ( ) 10 cubic yards or less ( )11– 50 cubic yards (X) over 50 cubic yards
Project over 50 cubic yards require a silt fence or other means of stormwater management.

Characteristics of Proposed Dwelling/Dwelling Additions/Attached Garage/Decks **Cost of Project**

( )Dwelling _____ ft by _____ ft ( ) Attached Garage _____ ft x _____ ft

$_____

Outside Dimension ( )Deck/Patio _____ ft x _____ ft ( )Addition to existing _____ ft x _____ ft

Setback to Side Lot Lines _____ ft & Rear Lot Line _____ ft

Setback to Road Right of Way _____ ft

Setback to Bluff _____

Type of road **Twshp/Public / Co Hwy / State Hwy (Circle)**

Setback to Wetland _____

Is wetland protected ( ) Yes ( ) No

Setback to OHW (straight horizontal distance) _____

Elevation above OHW (Straight vertical distance) _____

Setback to septic tank _____

Setback to drainfield _____

Total No. Bedrooms _____

Maximum height proposed _____ # of Stories _____

Roof Change ( ) Yes ( ) No

Basement ( ) Yes ( ) No Walkout Basement ( ) Yes ( ) No

Characteristics of Proposed Non Dwelling/Non Dwelling Additions/Detached Garages/Storage Sheds

( ) Garage _____ ft by _____ ft (1) Storage Shed 80 ft x 130 ft (X)Fence 1,684 ft long x 6' high ( )other Chain Link Security _____ ft x _____ ft

(2) " " 40' 170'

Outside Dimension ( ) Addition to existing structure _____ ft x _____ ft ( ) Fence _____ ft x _____ ft

Cost of Project

$ 550,000.

Setback to Side Lot Lines 120 ft & Rear Lot Line 110 ft

Setback to Road Right of Way 95 ft

Setback to Bluff _____

Type of road **Twshp/Public / (Co Hwy) / State Hwy (Circle)**

Setback to Wetland _____

Is wetland protected ( ) Yes ( ) No

Setback to OHW (straight horizontal distance) _____

Elevation above OHW (Straight vertical distance) _____

Setback to septic tank _____

Setback to drainfield _____

Roof Change ( ) Yes ( ) No

Maximum height proposed _____ # of Stories _____

Bathroom proposed ( ) Yes ( ) No

Sleeping Quarters proposed ( ) Yes ( ) No

***Garages and storage sheds cannot contain amenities for independent human habitation**

Characteristics of Proposed Water Oriented Structure* **Cost of Project $** _____

( ) Deck ( ) Boathouse ( ) Screen Porch ( ) Gazebo ( ) Storage Structure

Outside Dimension _____ ft by _____ ft

Sq ft _____

Setback to Side Lot Line _____ ft & _____ ft

Setback to Bluff _____

Setback to OHW (straight horizontal distance) _____

Elevation above OHW (Straight vertical distance) _____

Setback to septic tank _____

Setback to drainfield _____

Maximum height proposed _____

***Sleeping facilities or water supplies are not permitted in these structures**

THIS IS A SITE PERMIT ONLY AND DOES NOT CONSTITUTE A BUILDING PERMIT AS SET FORTH IN MN STATE STATUTES.

I hereby certify with my signature that all data contained herein as well as all supporting data are true and correct to the best of my knowledge. I also understand that, once issued, a permit is valid for a period of one (1) year from the date of issuance and that Planning and Zoning Staff may visit my property to ensure compliance. If my property is located within the shoreland district, I understand that it is my responsibility to inform the Planning & Zoning Office once the building footings have been constructed. A Site Permit may be revoked at any time upon violation of said Ordinances and approved setbacks. Any changes to this site permit results in nullification of this permit and a new permit will have to be obtained.

Jay Kratochvil

Signature

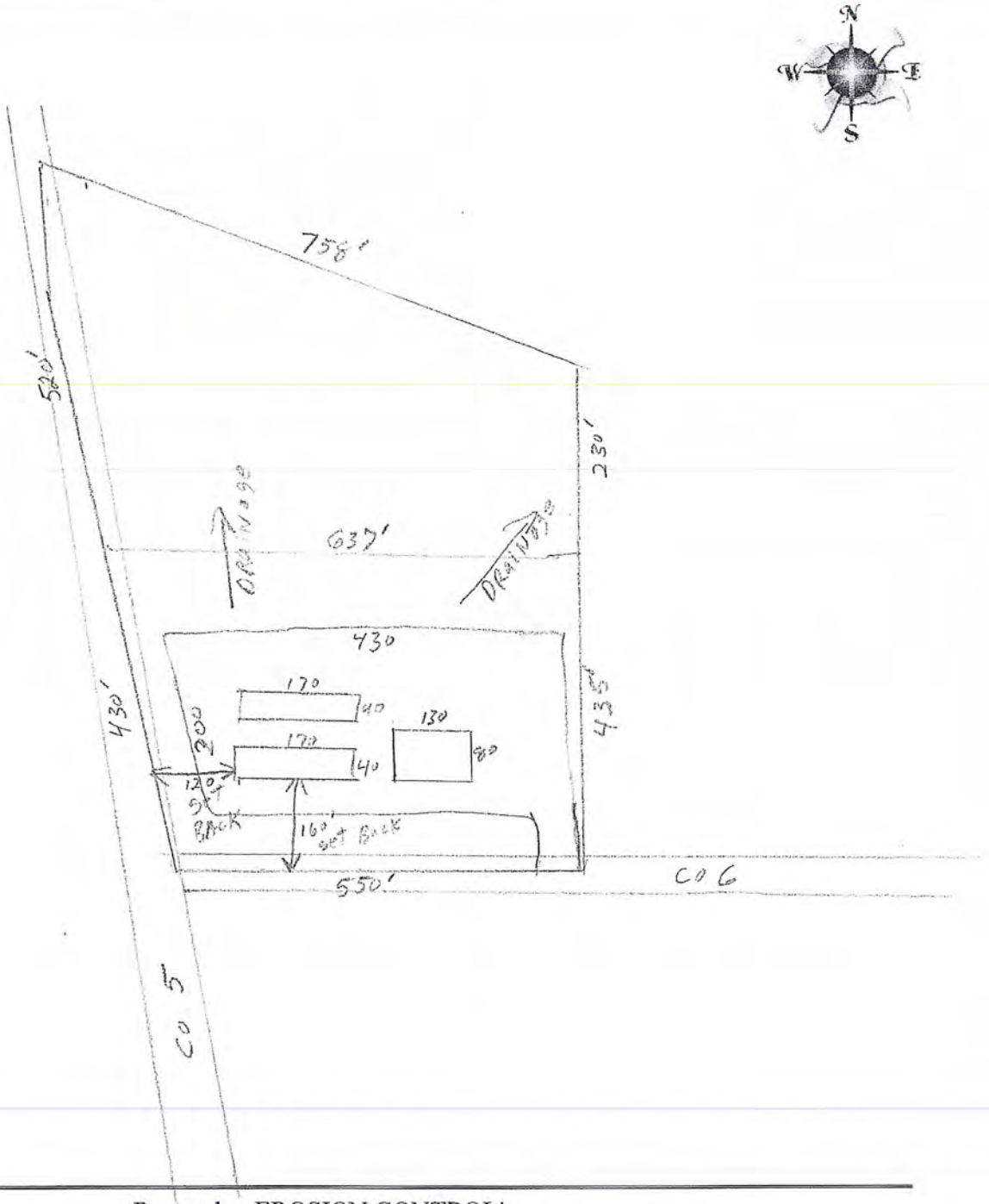
2/14/18

Date

SKETCH OF PROPERTY

PARCEL	
APP	SITE
YEAR	

1. **Please sketch all impervious coverage on your property; include dimensions.**
2. **Sketch roadways adjacent to property** - Include driveway location.
3. **Indicate setback distances including distance to: Side Lot Line, Rear Lot Line, ROW/Centerline, Septic tank and Drainfield.**
4. **If you will be exceeding 15% impervious surface coverage, include a copy of your stormwater management plan. This applies to ANY lot that exceeds 15% coverage.**
5. **If proposed project is a detached garage/storage shed that *will exceed 1 story*, include detailed design.**
6. **Indicate where erosion control measures will be implemented and indicate storm water drainage pattern and how it will be maintained on the property.**



Remember EROSION CONTROL!
Please use best management practices and/or silt fence to control erosion on all projects.

COUNTY OF BECKER

Planning and Zoning

915 Lake Ave, Detroit Lakes, MN 56501

Phone: 218-846-7314 ~ Fax: 218-846-7266

PLANNING COMMISSION
NOTICE OF PUBLIC HEARING
HEARING DATE AND LOCATION

Tuesday, April 10, 2018 @ 7:00 P.M.

3rd Floor Jury Assembly Room New Addition-Becker County Courthouse
Detroit Lakes, MN 56501

APPLICANT: Becker County
915 Lake Avenue
Detroit Lakes, MN 56501

Project Location: 12738 County Highway 5, Lake Park, MN

APPLICATION AND DESCRIPTION OF PROJECT:
Request a Conditional Use Permit for a 6' privacy fence.

LEGAL LAND DESCRIPTION: Tax ID number: **06.0312.000** Section 22 Township 138 Range 043 PT GOVT LOT 1: COMM COR LOT 1 BLK 2 CORM BCH, S 1714', W 1001.8' TO POB; NW 67.1' TO LK, SW 50' AL LK, SE 88.5', NE 57' TO POB.

Replies/Comments: Interested parties are invited to submit to the Becker County Department of Planning, Zoning, and Land Use, written facts, arguments or objectives before the scheduled date of the Hearing. These statements should bear upon the suitability of the location and the adequacy of the Project and should suggest any appropriate changes believed to be desirable. Replies may be addressed to:

PLANNING AND ZONING DEPARTMENT
915 Lake Avenue **FAX Number 218-846-7266**
Detroit Lakes, MN. 56501 **EMAIL: zoning@co.becker.mn.us**

If you have questions about the Project, feel free to call 218-846-7314.

Jurisdiction: This Project comes under the Regulatory Jurisdiction of the Becker County Zoning Laws.

Regulatory Authority: This Application will be reviewed according to the provisions of the Becker County Zoning Ordinance. The decision whether to issue a Permit will be based on an evaluation of the probable impact including cumulative impacts, of the proposed activity. That decision will reflect the concern for both protection and utilization of important resources. All factors, which may be relevant to the proposal, will be considered including the cumulative effects: Land Use, Shoreline Protection, Water Supply and Conservation, Safety, Economics, in General, the Needs and Welfare of the People.

** Weather conditions may change the Hearing date and time. If bad weather occurs, please listen to the local Detroit Lakes Radio Stations or contact the Zoning Office, by 4:30 PM on day of Hearing, for possible rescheduling of the Hearing.

~ CONDITIONAL USE APPLICATION ~

BECKER COUNTY PLANNING & ZONING

915 LAKE AVENUE, DETROIT LAKES, MN 56501
PHONE (218) 846-7314 - FAX (218) 846-7266

PARCEL	
APP	CUP
YEAR	
SCANNED	

PROPERTY OWNER INFORMATION (as it appears on tax statement, purchase agreement or deed)

First name(s): Becker County Last name: _____

Mailing Address: 915 Lake Avenue Detroit Lakes, MN 56501

Phone Number(s): (218) 846-7200 Project Address: 12738 Co HWY 5 Lake Park, MN 56554

Parcel number(s) of property: 060312000 Sect - Twp - Range: Sec 22 Twp 138 Range 043

Township Name: Cormorant Legal Description: 22-138-43 PT GOVT LOT 1: COMM MC#25 ON W SHORE BIG CORM LK, W 575.8', SWLY 1472.67', NW 9.68 TO CTR HWY, SWLY AL CTR HWY 335.66' TO POB; SWLY AL CTR HWY 57.93', NW 133.69' TO MID CORM LK, NE AL LK 51.28', SE 118.91' TO POB.

REASON FOR CONDITIONAL USE REQUEST: The County has acquired Parcel 060312000 adjacent to the existing Middle Cormorant Swimming Beach, and been granted a conditional use permit for public use. As a condition of public use and planned improvements to both parcels, the neighboring landowner (PIN 0603013000) has requested the construction of a 6' tall privacy fence on the lot line within the shore impact zone, set back 12' from the OHWL. While this is allowable on an agriculturally zoned parcel, the Becker county ordinance restricts fences to 4' in height within the shore impact zone.

The information provided for this document is truthful and accurate to the best of my knowledge. I understand that this statement is null and void if any of the above information is not supplied or is inaccurate.

_____ 2-13-2018

SIGNATURE OF APPLICANT DATE

OTHER INFORMATION NEEDED TO COMPLETE THE APPLICATION:

1. A copy of the deed from the Recorder's Office;
2. Completed Site Application with sketch showing all setbacks, platted or surveyed dimensions of the lot and all existing and proposed buildings; parking area and all other materials deemed necessary.
3. Non-refundable filing fee of $326.00. If in Cormorant Township add $25.00 surcharge to the filing fee ($351.00). **Make check payable to Becker County Zoning.**
4. **Is the conditional use permit request after the fact? [ ] Yes [X] No**
   If yes, after the fact application fee is an additional $600.00.

****

Office Use Only

This application is hereby (accepted) or (rejected) as presented.

_____ 02-15-2018

SIGNATURE – ZONING ADMINISTRATOR DATE

Please answer the following questions as they relate to your specific CUP request:

1. **Effect on surrounding property.** That the conditional use will not harm the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminish or impair property values within the immediate vicinity.

The proposed privacy fence is being constructed at the adjacent landowner's request to provide a visual and auditory barrier to the public use of the aforementioned parcel. Once constructed the fence will enhance rather than diminish the neighboring landowners use and enjoyment of their property, and prohibit the public from infringing on their privacy.

2. **Effect on orderly, consistent development.** That establishing the conditional use will not impede the normal, orderly development and improvement of surrounding vacant property for uses predominant in the area.

This project will not affect development of surrounding property. By providing a clear, defined boundary between publicly used space and private property this fence will ensure orderly use, prohibit trespassing and offer screening for both the public and neighboring homeowners.

3. **Adequate facilities.** That adequate utilities, access roads, drainage and other necessary facilities have been or are being provided.

As defined on the attached plans, adequate access, drainage, stormwater control and public facilities will be afforded by the planned improvements to the Middle Cormorant Swimming Beach.

4. **Adequate parking.** That adequate measures have been or will be taken to provide sufficient off-street parking and loading space to serve the proposed use.

As also defined on the attached plans, planned improvements will provide orderly, off street parking as well as the addition of two handicapped spaces and signage to comply with ADA regulations.

5. **Not a nuisance.** That adequate measures have been or will be taken to prevent or control offensive odor, fumes, dust, noise and vibration, so none of these will constitute a nuisance, and to control lighted signs and other lights so that no disturbance to neighboring properties will result.

The sole purpose of this application is to provide the requested measures to limit disturbance to neighboring property owners and prevent public use of the property from creating nuisance.

6. **Additional criteria for shoreland areas.** In Shoreland areas, it shall be found that adequate measures have been or will be taken to assure that:
    a. **Pollution.** Soil erosion or other possible pollution of public waters will be prevented, both during and after construction;

    As indicated on the attached Site Plan and Stormwater Prevention Plan (SWPP), adequate erosion control measures will be employed both during and post construction.

    b. **View from public waters.** That the visibility of structures and other facilities as viewed from public waters will be limited;

    The proposed fence and planned vegetation will afford additional screening of structures and facilities from the waterward side of the parcel.

    c. **Adequate utilities.** That the site is adequate for water supply and on-site sewage treatment;

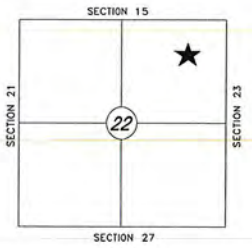
    While the site is adequate for water supply and on-site sewage treatment, no potable water will be provided at the site. Existing restroom facilities will remain on-site but be retrofitted to afford ADA accessibility.

    d. **Watercraft.** That the types, uses, and number of watercrafts that the project will generate can be safely accommodated.

    Existing covenants prohibit watercraft launching and landing at Middle Cormorant Beach. Current buoys and barriers will remain and additional signage will be placed strategically to inform the public that watercraft are prohibited.

Cormorant Swimming Beach

CORMORANT TOWNSHIP, SECTION 22 - BECKER COUNTY



LOCATION MAP

SUMMARY OF ESTIMATED QUANTITIES		
Qty	Unit	Item
162	CY	TOPSOIL (SOD) - 6"
8,746	SF	SOD
4,765	SF	NATIVE PLANTINGS
6,893	SF	ASPHALT
245	LN. FT.	CURB
319	SF	SIDEWALK - 3.5' Wide Average
576	SF	MEDIAN - 2.5' Wide Average
450	LN. FT.	STRIPING - 20 spaces plus 2 handicap spaces
2	EACH	HANDICAP PARKING SIGNS
326	LN. FT.	SPLIT RAIL FENCE
107	LN. FT	PRIVACY FENCE
1	EACH	PICNIC SHELTER w/PAD - 16'x20'
72	CY	BEACH SAND - 12" Average

I have reviewed and understand the plans and specifications and agree to complete the work accordingly. Failure to meet these plans and specifications may jeopardize any cost share applied for. I understand that it is my responsibility to secure all necessary permits and licenses, and to complete the work in accordance with all local, state, and federal laws. Modifications of these plans or specifications must be approved by the natural resources conservation service before installation. I assume responsibility for negotiations and agreements with the contractors.

COOPERATORS SIGNATURE _____ DATE _____

STATE LAW REQUIRES THAT THE EXCAVATOR CONTACT GOPHER STATE ONE-CALL AT (800) 252-1166 FOR UTILITY LOCATIONS 48 HOURS PRIOR TO THE START OF EXCAVATION WORK.

NOTE:

BECKER SWCD IS NOT RESPONSIBLE FOR LOCATING OR DAMAGE TO EXISTING UTILITIES. THE OWNER OR GENERAL CONTRACTOR SHALL NOTIFY BECKER SWCD AT LEAST TWO (2) WORKING DAYS PRIOR TO THE START OF THE CONSTRUCTION. FAILURE TO DO SO WILL JEOPARDIZE THE TECHNICAL CERTIFICATION THAT THE PRACTICE HAS BEEN PERFORMED IN ACCORDANCE WITH THE PRACTICE STANDARDS AND SPECIFICATIONS.

SHEET INDEX

1. COVER SHEET
2. DEMOLITION SHEET
3. SITE PLAN
4. SWPPP

N

Designed C. Olson Date 08/2017
Drawn C. Olson 08/2017
Checked ----- -----
Approved ----- -----

Cormorant Swimming Beach
Cover Sheet

Becker County, Minnesota

Becker Soil & Water Conservation District

File Name Site Plan - N.dwg
Eng. Job Class -
2/9/2018
Sheet 1 of 5

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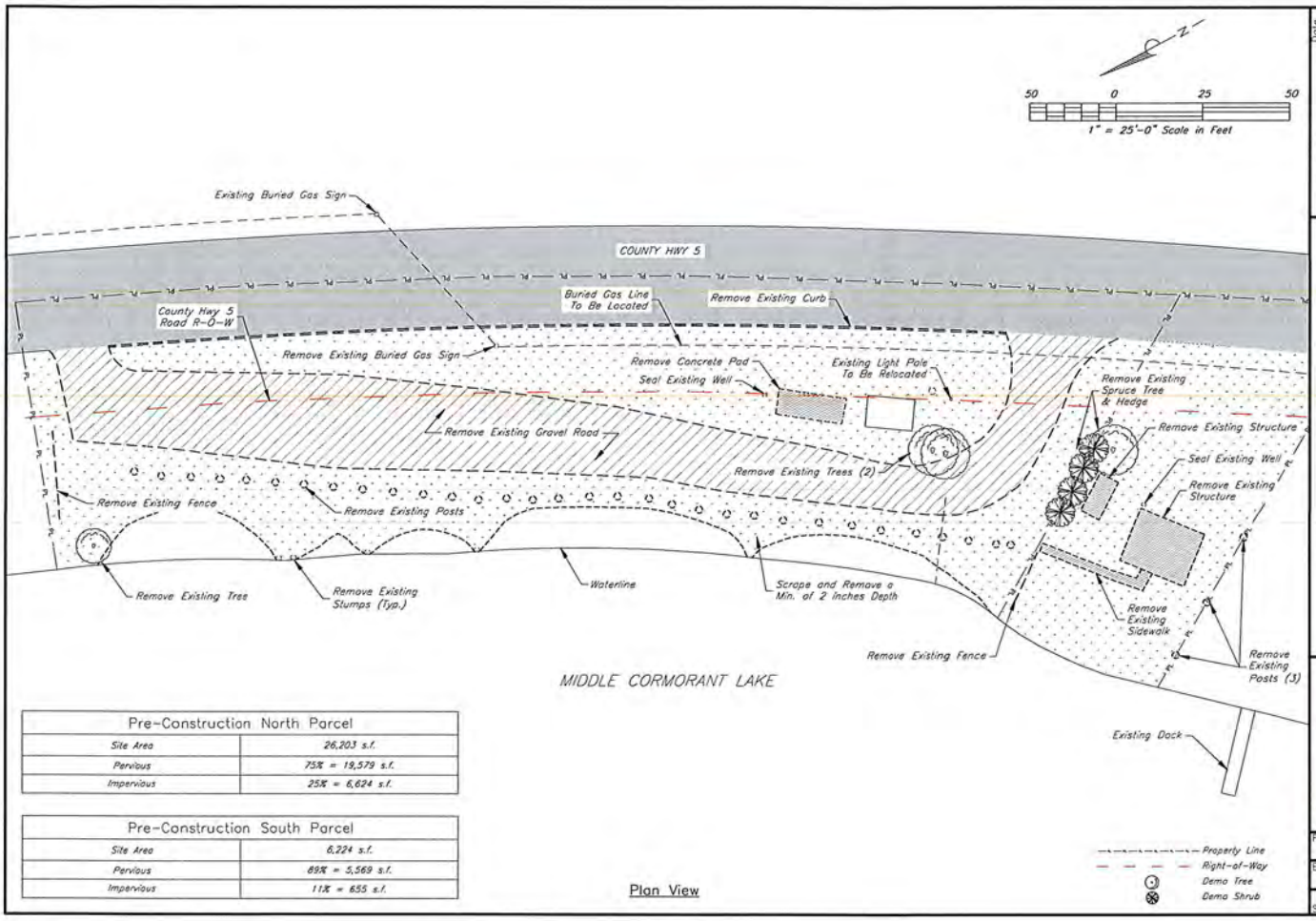


Pre-Construction North Parcel	
Site Area	26,203 s.f.
Pervious	75% = 19,579 s.f.
Impervious	25% = 6,624 s.f.

Pre-Construction South Parcel	
Site Area	6,224 s.f.
Pervious	89% = 5,569 s.f.
Impervious	11% = 655 s.f.

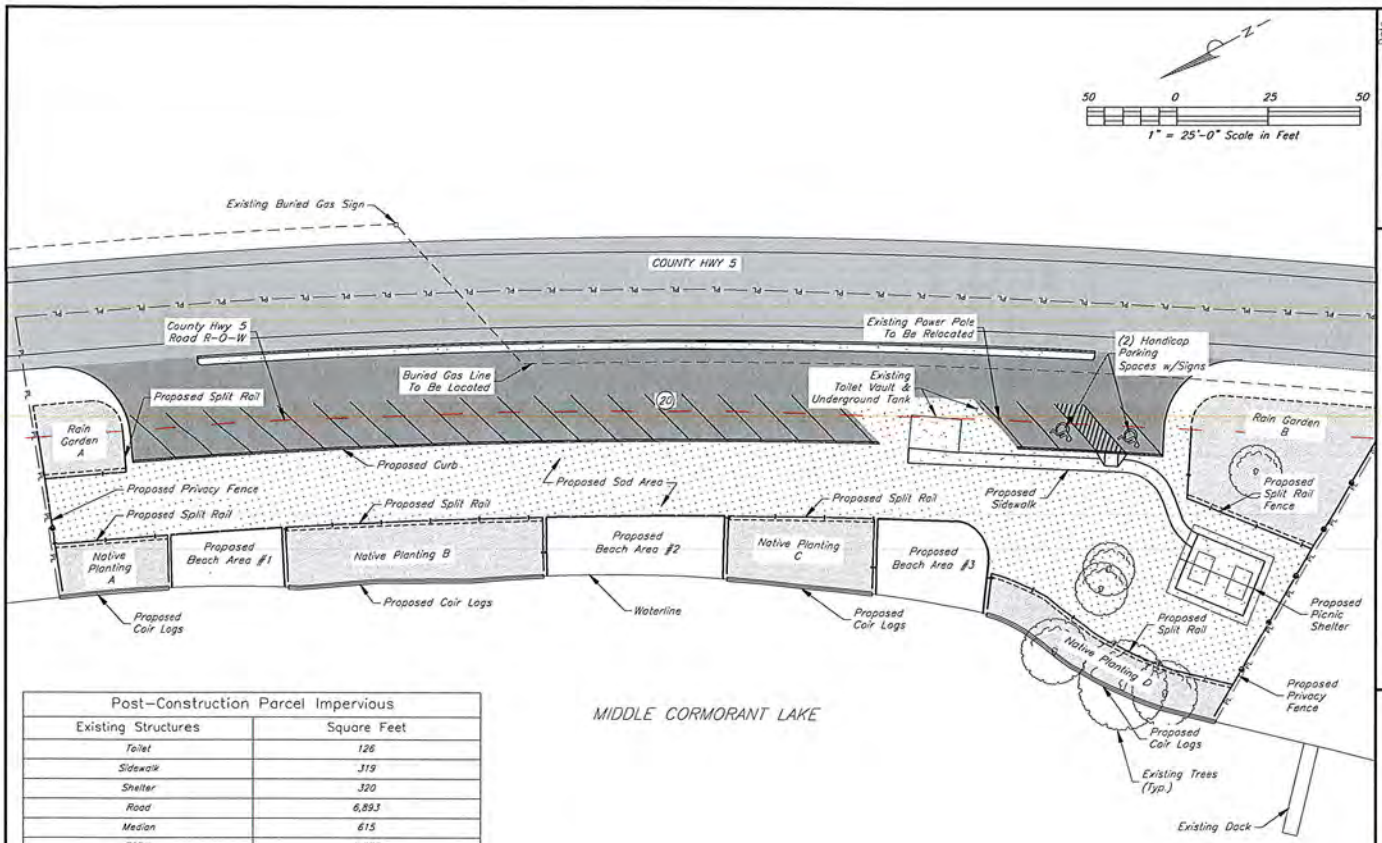
Plan View

Designed C. Olson 08/2017
Drawn C. Olson 08/2017
Checked ---- ----
Approved ---- ----

Cormorant Swimming Beach
Demolition Plan
Becker County, Minnesota

Becker Soil & Water Conservation District

File Name
Site Plan - N.dwg
Eng. Job Class
-
2/9/2018
Sheet 2 of 5



Post-Construction Parcel Impervious	
Existing Structures	Square Feet
Toilet	126
Sidewalk	319
Shelter	320
Road	6,893
Median	615
TOTAL	8,273

Post-Construction Combined Parcels	
Site Area	32,427 s.f.
Pervious	75% = 24,154 s.f.
Impervious	25% = 8,273 s.f.

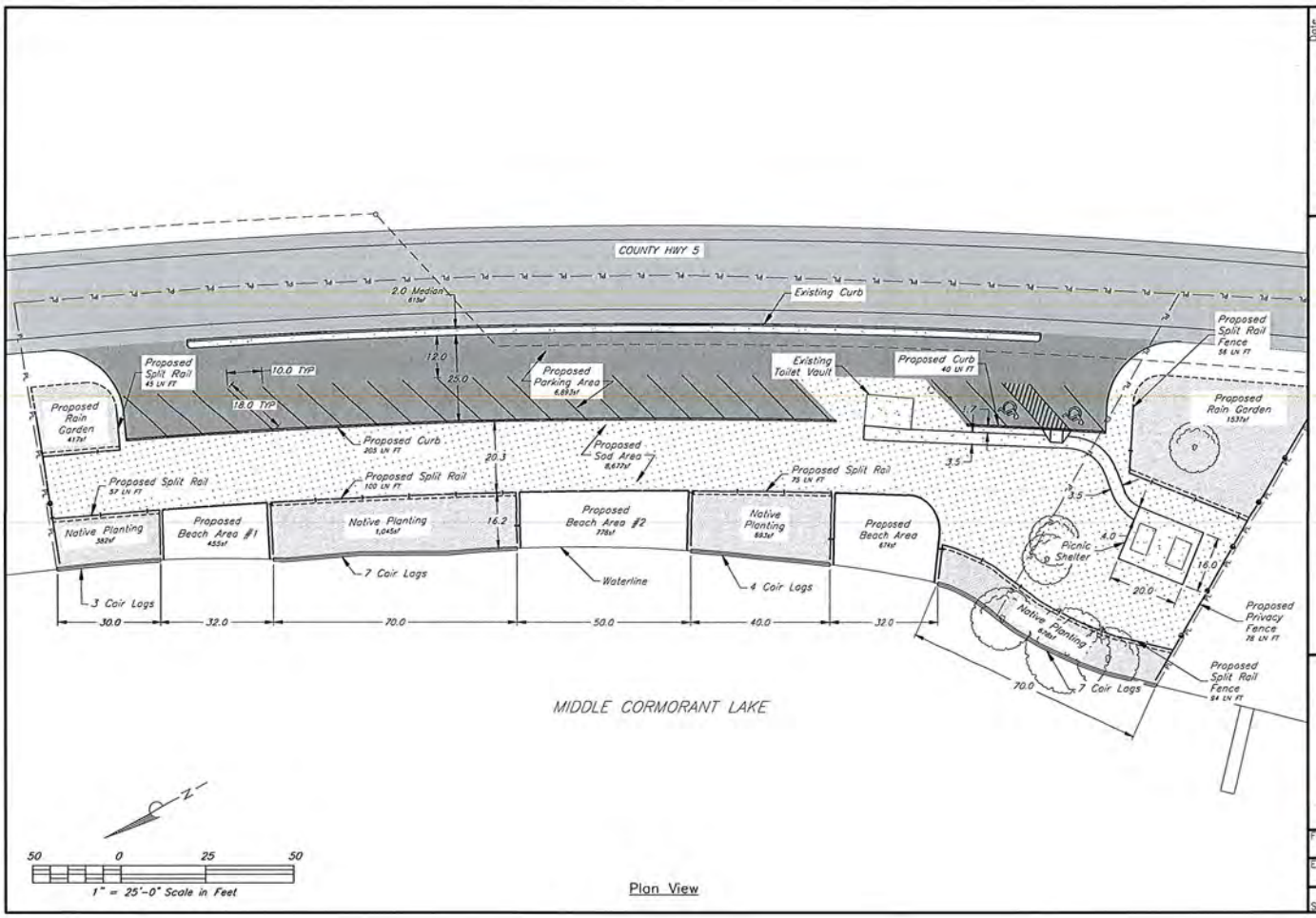
Plan View

Date
Designed C. Olson 08/2017
Drawn C. Olson 08/2017
Checked
Approved

Cormorant Swimming Beach
Site Plan
Becker County, Minnesota

Becker Soil & Water Conservation District

File Name
Site Plan - N.dwg
Eng. Job Class
-
2/2/2018
Sheet 3 of 5



Plan View

Date
Designed C. Olson 08/2017
Drawn C. Olson 08/2017
Checked ----- -----
Approved ----- -----

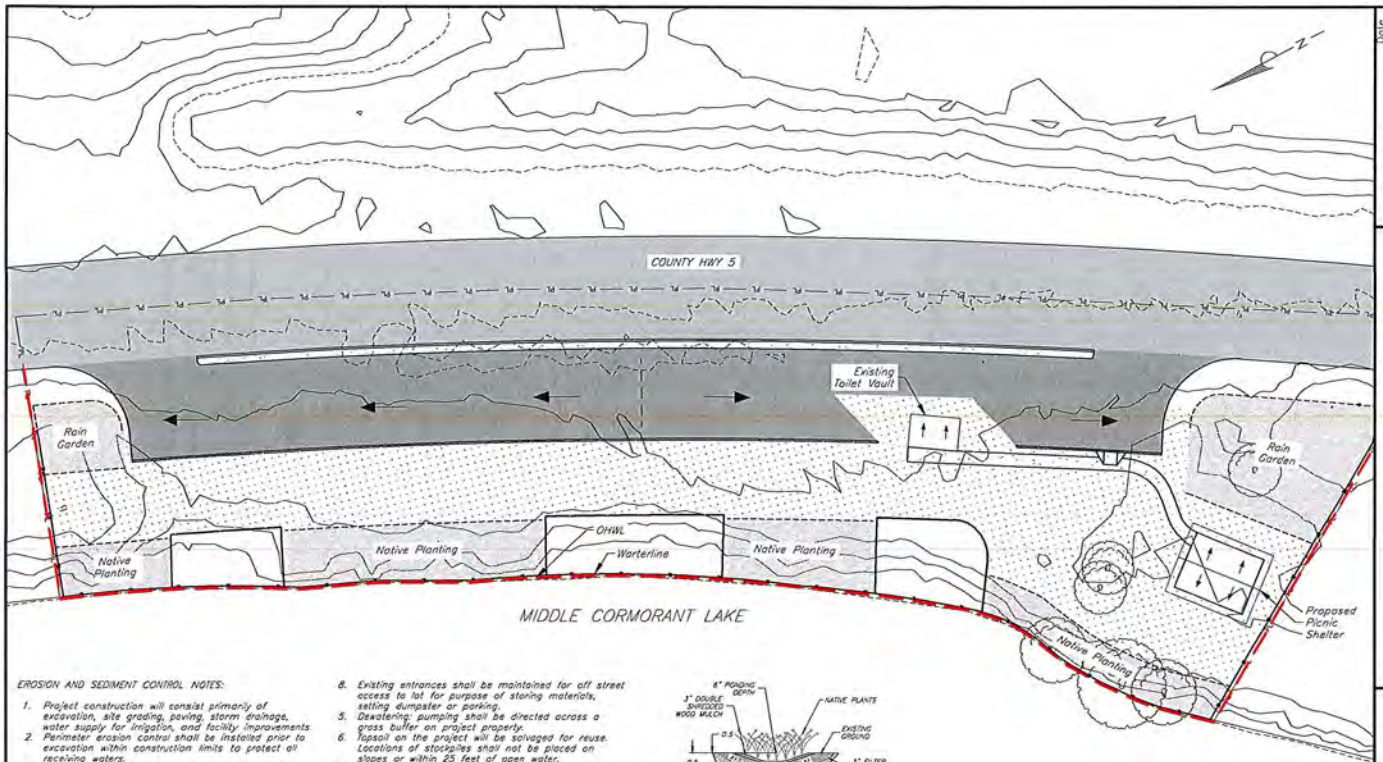
Cormorant Swimming Beach
Site Plan – Quantities
Becker County, Minnesota

Becker Soil & Water Conservation District

File Name
Site Plan - N.dwg

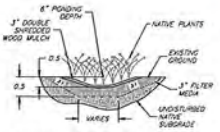
Eng. Job Class
-

2/9/2018
Sheet 4 of 5



EROSION AND SEDIMENT CONTROL NOTES:

1. Project construction will consist primarily of excavation, site grading, paving, storm drainage, water supply for irrigation, and facility improvements.
2. Perimeter erosion control shall be installed prior to excavation within construction limits to protect all receiving waters.
3. All storm drain inlets that receive discharge from the lot under construction shall be protected prior to excavation.
4. All sediment is to be captured onsite.
5. Acceptable temporary erosion and sediment control practices include, but are not limited to: sediment control filter logs, silt fence, sediment control barriers, topsoil berms, biodegradable erosion control blankets and certified weed-free straw mulch.
6. Prior to transportation along roads into or out of any work site or between water bodies with a project area, all equipment must be free of any aquatic plants, water, and prohibited invasive species.
7. Remove all visible aquatic remnants (plants, animals, mud, etc.) Drain all water from equipment where water may be trapped, such as tanks, pumps, hoses, and water retaining components.
8. Existing entrances shall be maintained for off street access to lot for purpose of storing materials, setting dumpster or parking.
5. Dewatering: pumping shall be directed across a grass buffer on project property.
6. Topsoil on the project will be salvaged for reuse. Locations of stockpiles shall not be placed on slopes or within 25 feet of open water.
7. Construction will be phased to minimize duration of exposed soils. Soils exposed longer than 48 hours shall require temporary erosion control. Certified topsoil free of noxious propagules will be required if topsoil shortages occur. Finished grade will include a minimum thickness of 4 inches of topsoil.
8. All temporary erosion and sediment control practices shall be maintained until final lot stabilization.
9. Maintenance and operation for all temporary erosion and sediment control practices will be delegated to the primary contractor.
10. Maintenance and operation for all long term erosion and sediment control practices will be delegated to the Owner, identified as Becker County.
11. See Operation and Maintenance plan for permanent storm water management



Infiltration Rain Garden with Planting
No Scale

INFILTRATION RAIN GARDEN NOTES:

1. Maximum ponding depth is 6 inches from sheet flow.
2. After removal of soil, subgrade shall be scarified and removed soil replaced with filter media.
3. Filter media shall be a minimum of 3 inches mixed on-site or supplied by vendor. Certified filter media (topsoil) shall be free of noxious propagules.
4. See planting plan for included herbaceous vegetation, shrubs and/or trees

NOTES:

1. Soil types on the site are 1138-Pushlow and Hangaard soils, lake beaches. Hydrologic Soil Group: A
2. Typical soil profile: 0 to 12 inches: sandy loam, 13 to 80 inches: gravelly coarse sand
3. Depth to water table: About 42 to 54 inches
4. See attached Operation and Maintenance Plan for general operation and maintenance of the rain garden.

Minor Contour
Major Contour
Property Line
Construction Limits
Silt Fence

50 0 25 50
1" = 25'-0" Scale in Feet

Designed C. Olson 08/2017
Drawn C. Olson 08/2017
Checked
Approved

Cormorant Swimming Beach
SWPPP
Becker County, Minnesota

Becker Soil & Water Conservation District

File Name
Site Plan - N.dwg
Eng. Job Class
-
2/9/2018
Sheet 5 of 5

Becker Soil & Water Conservation District

RAIN GARDEN SIZING CALCULATOR

Name: Middle Cormorant Beach - Rain Garden B

24 Hour Storm, SBUH Type 2 Rainfall Distribution

2/14/2018

USER INPUTS

24 Hour Rainfall Depth =	1.1	in	Enter
Drainage area =	3810	sf	Enter
Drainage Area Runoff Coefficient =	0.98		0.9 - 0.98 for imp surface
Native Soil Infiltration Rate =	1	in/hr	Enter
Depth of Rock Trench Below Rain Garden (optional) =	0	inches	Enter, optional
Void Ratio for RockTrench =	100%	%	Typically 40% for uniformly graded rock
Bottom of Rain Garden Area =	1303	sf	Adjust this until max ponding depth in raingarden is 12 inches and the facility is completely empty in 30 hours

CALCULATED DESIGN CRITERIA

Maximum Ponding Depth in Rain Garden =	0.87	in	Calculated
Depth of Water Left in Rock Trench After 30 Hours =	0.00	in	Calculated
Depth of Water Left in Rain Garden After 30 Hours =	0.00	in	Calculated
Rain Garden Area is Adequately Sized?	TRUE		Calculated, if FALSE, increase Rain Garden Area and/or Depth of Rock Trench Below Rain Garden until TRUE

OTHER CALCULATED VALUES

Peak Rainfall Intensity =	1.51	in/hr	Calculated from distribution
Ratio of Rain Garden to Drainage Area =	0.342		Calculated (aka Sizing Factor)
Storage Capacity of Rock Trench=	0.00	cf	Calculated

Native Soil Infiltration Rate

Sandy Loam:	1
Loamy Sand	2
Loam:	0.8
Clay Loam	0.5
Clay:	0.2

SBUH HYDROGRAPH

Time(hrs)	(1) %of total rain	(2) Rain Total	(3) Intensity (in/hr)	(4) Inflow Rate (cfs)	(5) Inflow Volume (cf)	(6) Runoff Depth (in)	(7) Facility Infiltration Rate (cfs)	(8) Inflow Rate - Facility Infiltration Rate (cfs)	(9) Inflow Volume - Infiltration Volume (cf)	(10) Cumulative Inflow Volume to be Stored (cf)	(11) Rock Trench Ponding (if incl in design) (in)	(12) Rain Garden Ponding Depth (in)
0.0	0.00000	0	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
0.1	0.00101	0.001111	0.01111	0.00	0.34568765	0.00108878	0.03016	-0.02920	-10.5126	0.00	0.00	0.00
0.2	0.00202	0.002222	0.01111	0.00	0.34568765	0.00108878	0.03016	-0.02920	-10.5126	0.00	0.00	0.00
0.3	0.00305	0.003355	0.01133	0.00	0.35253295	0.00111034	0.03016	-0.02918	-10.5058	0.00	0.00	0.00
0.4	0.00408	0.004488	0.01133	0.00	0.35253295	0.00111034	0.03016	-0.02918	-10.5058	0.00	0.00	0.00
0.5	0.00513	0.005643	0.01155	0.00	0.35937825	0.0011319	0.03016	-0.02916	-10.4990	0.00	0.00	0.00
0.6	0.00618	0.006798	0.01155	0.00	0.35937825	0.0011319	0.03016	-0.02916	-10.4990	0.00	0.00	0.00
0.7	0.00725	0.007975	0.01177	0.00	0.36622355	0.00115346	0.03016	-0.02914	-10.4921	0.00	0.00	0.00
0.8	0.00832	0.009152	0.01177	0.00	0.36622355	0.00115346	0.03016	-0.02914	-10.4921	0.00	0.00	0.00
0.9	0.00941	0.010351	0.01199	0.00	0.37306885	0.00117502	0.03016	-0.02913	-10.4853	0.00	0.00	0.00
1.0	0.01050	0.01155	0.01199	0.00	0.37306885	0.00117502	0.03016	-0.02913	-10.4853	0.00	0.00	0.00
1.1	0.01161	0.012771	0.01221	0.00	0.37991415	0.00119658	0.03016	-0.02911	-10.4784	0.00	0.00	0.00
1.2	0.01272	0.013992	0.01221	0.00	0.37991415	0.00119658	0.03016	-0.02911	-10.4784	0.00	0.00	0.00
1.3	0.01385	0.015235	0.01243	0.00	0.38675945	0.00121814	0.03016	-0.02909	-10.4716	0.00	0.00	0.00
1.4	0.01498	0.016478	0.01243	0.00	0.38675945	0.00121814	0.03016	-0.02909	-10.4716	0.00	0.00	0.00
1.5	0.01613	0.017743	0.01265	0.00	0.39360475	0.0012397	0.03016	-0.02907	-10.4647	0.00	0.00	0.00
1.6	0.01728	0.019008	0.01265	0.00	0.39360475	0.0012397	0.03016	-0.02907	-10.4647	0.00	0.00	0.00
1.7	0.01845	0.020295	0.01287	0.00	0.40045005	0.00126126	0.03016	-0.02905	-10.4579	0.00	0.00	0.00
1.8	0.01962	0.021582	0.01287	0.00	0.40045005	0.00126126	0.03016	-0.02905	-10.4579	0.00	0.00	0.00
1.9	0.02081	0.022891	0.01309	0.00	0.40729535	0.00128282	0.03016	-0.02903	-10.4510	0.00	0.00	0.00
2.0	0.02200	0.0242	0.01309	0.00	0.40729535	0.00128282	0.03016	-0.02903	-10.4510	0.00	0.00	0.00
2.1	0.02321	0.025531	0.01331	0.00	0.41414065	0.00130438	0.03016	-0.02901	-10.4442	0.00	0.00	0.00
2.2	0.02442	0.026862	0.01331	0.00	0.41414065	0.00130438	0.03016	-0.02901	-10.4442	0.00	0.00	0.00
2.3	0.02565	0.028215	0.01353	0.00	0.42098595	0.00132594	0.03016	-0.02899	-10.4373	0.00	0.00	0.00
2.4	0.02688	0.029568	0.01353	0.00	0.42098595	0.00132594	0.03016	-0.02899	-10.4373	0.00	0.00	0.00
2.5	0.02813	0.030943	0.01375	0.00	0.42783125	0.0013475	0.03016	-0.02897	-10.4305	0.00	0.00	0.00
2.6	0.02938	0.032318	0.01375	0.00	0.42783125	0.0013475	0.03016	-0.02897	-10.4305	0.00	0.00	0.00
2.7	0.03065	0.033715	0.01397	0.00	0.43467655	0.00136906	0.03016	-0.02895	-10.4237	0.00	0.00	0.00
2.8	0.03192	0.035112	0.01397	0.00	0.43467655	0.00136906	0.03016	-0.02895	-10.4237	0.00	0.00	0.00
2.9	0.03321	0.036531	0.01419	0.00	0.44152185	0.00139062	0.03016	-0.02894	-10.4168	0.00	0.00	0.00
3.0	0.03450	0.03795	0.01419	0.00	0.44152185	0.00139062	0.03016	-0.02894	-10.4168	0.00	0.00	0.00
3.1	0.03581	0.039391	0.01441	0.00	0.44836715	0.00141218	0.03016	-0.02892	-10.4100	0.00	0.00	0.00
3.2	0.03712	0.040832	0.01441	0.00	0.44836715	0.00141218	0.03016	-0.02892	-10.4100	0.00	0.00	0.00
3.3	0.03845	0.042295	0.01463	0.00	0.45521245	0.00143374	0.03016	-0.02890	-10.4031	0.00	0.00	0.00
3.4	0.03978	0.043758	0.01463	0.00	0.45521245	0.00143374	0.03016	-0.02890	-10.4031	0.00	0.00	0.00
3.5	0.04113	0.045243	0.01485	0.00	0.46205775	0.0014553	0.03016	-0.02888	-10.3963	0.00	0.00	0.00
3.6	0.04248	0.046728	0.01485	0.00	0.46205775	0.0014553	0.03016	-0.02888	-10.3963	0.00	0.00	0.00
3.7	0.04385	0.048235	0.01507	0.00	0.46890305	0.00147686	0.03016	-0.02886	-10.3894	0.00	0.00	0.00
3.8	0.04522	0.049742	0.01507	0.00	0.46890305	0.00147686	0.03016	-0.02886	-10.3894	0.00	0.00	0.00
3.9	0.04661	0.051271	0.01529	0.00	0.47574835	0.00149842	0.03016	-0.02884	-10.3826	0.00	0.00	0.00
4.0	0.04800	0.0528	0.01529	0.00	0.47574835	0.00149842	0.03016	-0.02884	-10.3826	0.00	0.00	0.00
4.1	0.04941	0.054351	0.01551	0.00	0.48259365	0.00151998	0.03016	-0.02882	-10.3757	0.00	0.00	0.00
4.2	0.05084	0.055924	0.01573	0.00	0.48943895	0.00154154	0.03016	-0.02880	-10.3689	0.00	0.00	0.00
4.3	0.05229	0.057519	0.01595	0.00	0.49628425	0.0015631	0.03016	-0.02878	-10.3620	0.00	0.00	0.00
4.4	0.05376	0.059136	0.01617	0.00	0.50312955	0.00158466	0.03016	-0.02876	-10.3552	0.00	0.00	0.00
4.5	0.05525	0.060775	0.01639	0.00	0.50997485	0.00160622	0.03016	-0.02875	-10.3484	0.00	0.00	0.00
4.6	0.05676	0.062436	0.01661	0.00	0.51682015	0.00162778	0.03016	-0.02873	-10.3415	0.00	0.00	0.00
4.7	0.05829	0.064119	0.01683	0.00	0.52366545	0.00164934	0.03016	-0.02871	-10.3347	0.00	0.00	0.00
4.8	0.05984	0.065824	0.01705	0.00	0.53051075	0.0016709	0.03016	-0.02869	-10.3278	0.00	0.00	0.00
4.9	0.06141	0.067551	0.01727	0.00	0.53735605	0.00169246	0.03016	-0.02867	-10.3210	0.00	0.00	0.00
5.0	0.06300	0.0693	0.01749	0.00	0.54420135	0.00171402	0.03016	-0.02865	-10.3141	0.00	0.00	0.00
5.1	0.06461	0.071071	0.01771	0.00	0.55104665	0.00173558	0.03016	-0.02863	-10.3073	0.00	0.00	0.00
5.2	0.06624	0.072864	0.01793	0.00	0.55789195	0.00175714	0.03016	-0.02861	-10.3004	0.00	0.00	0.00
5.3	0.06789	0.074679	0.01815	0.00	0.56473725	0.0017787	0.03016	-0.02859	-10.2936	0.00	0.00	0.00
5.4	0.06956	0.076516	0.01837	0.00	0.57158255	0.00180026	0.03016	-0.02857	-10.2868	0.00	0.00	0.00

5.5	0.07125	0.078375	0.01859	0.00	0.57842785	0.00182182	0.03016	-0.02856	-10.2799	0.00	0.00	0.00
5.6	0.07296	0.080256	0.01881	0.00	0.58527315	0.00184338	0.03016	-0.02854	-10.2731	0.00	0.00	0.00
5.7	0.07469	0.082159	0.01903	0.00	0.59211845	0.00186494	0.03016	-0.02852	-10.2662	0.00	0.00	0.00
5.8	0.07644	0.084084	0.01925	0.00	0.59896375	0.0018865	0.03016	-0.02850	-10.2594	0.00	0.00	0.00
5.9	0.07821	0.086031	0.01947	0.00	0.60580905	0.00190806	0.03016	-0.02848	-10.2525	0.00	0.00	0.00
6.0	0.08000	0.088	0.01969	0.00	0.61265435	0.00192962	0.03016	-0.02846	-10.2457	0.00	0.00	0.00
6.1	0.08181	0.089991	0.01991	0.00	0.61949965	0.00195118	0.03016	-0.02844	-10.2388	0.00	0.00	0.00
6.2	0.08364	0.092004	0.02013	0.00	0.62634495	0.00197274	0.03016	-0.02842	-10.2320	0.00	0.00	0.00
6.3	0.08549	0.094039	0.02035	0.00	0.63319025	0.0019943	0.03016	-0.02840	-10.2251	0.00	0.00	0.00
6.4	0.08736	0.096096	0.02057	0.00	0.64003555	0.00201586	0.03016	-0.02838	-10.2183	0.00	0.00	0.00
6.5	0.08925	0.098175	0.02079	0.00	0.64688085	0.00203742	0.03016	-0.02837	-10.2115	0.00	0.00	0.00
6.6	0.09116	0.100276	0.02101	0.00	0.65372615	0.00205898	0.03016	-0.02835	-10.2046	0.00	0.00	0.00
6.7	0.09309	0.102399	0.02123	0.00	0.66057145	0.00208054	0.03016	-0.02833	-10.1978	0.00	0.00	0.00
6.8	0.09504	0.104544	0.02145	0.00	0.66741675	0.0021021	0.03016	-0.02831	-10.1909	0.00	0.00	0.00
6.9	0.09701	0.106711	0.02167	0.00	0.67426205	0.00212366	0.03016	-0.02829	-10.1841	0.00	0.00	0.00
7.0	0.09900	0.1089	0.02189	0.00	0.68110735	0.00214522	0.03016	-0.02827	-10.1772	0.00	0.00	0.00
7.1	0.10101	0.111111	0.02211	0.00	0.68795265	0.00216678	0.03016	-0.02825	-10.1704	0.00	0.00	0.00
7.2	0.10304	0.113344	0.02233	0.00	0.69479795	0.00218834	0.03016	-0.02823	-10.1635	0.00	0.00	0.00
7.3	0.10509	0.115599	0.02255	0.00	0.70164325	0.0022099	0.03016	-0.02821	-10.1567	0.00	0.00	0.00
7.4	0.10716	0.117876	0.02277	0.00	0.70848855	0.00223146	0.03016	-0.02819	-10.1498	0.00	0.00	0.00
7.5	0.10925	0.120175	0.02299	0.00	0.71533385	0.00225302	0.03016	-0.02817	-10.1430	0.00	0.00	0.00
7.6	0.11136	0.122496	0.02321	0.00	0.72217915	0.00227458	0.03016	-0.02816	-10.1362	0.00	0.00	0.00
7.7	0.11349	0.124839	0.02343	0.00	0.72902445	0.00229614	0.03016	-0.02814	-10.1293	0.00	0.00	0.00
7.8	0.11564	0.127204	0.02365	0.00	0.73586975	0.0023177	0.03016	-0.02812	-10.1225	0.00	0.00	0.00
7.9	0.11781	0.129591	0.02387	0.00	0.74271505	0.00233926	0.03016	-0.02810	-10.1156	0.00	0.00	0.00
8.0	0.12000	0.132	0.02409	0.00	0.74956035	0.00236082	0.03016	-0.02808	-10.1088	0.00	0.00	0.00
8.1	0.12225	0.134475	0.02475	0.00	0.77009625	0.0024255	0.03016	-0.02802	-10.0882	0.00	0.00	0.00
8.2	0.12460	0.13706	0.02585	0.00	0.80432275	0.0025333	0.03016	-0.02793	-10.0540	0.00	0.00	0.00
8.3	0.12705	0.139755	0.02695	0.00	0.83854925	0.0026411	0.03016	-0.02783	-10.0198	0.00	0.00	0.00
8.4	0.12960	0.14256	0.02805	0.00	0.87277575	0.0027489	0.03016	-0.02774	-9.9856	0.00	0.00	0.00
8.5	0.13225	0.145475	0.02915	0.00	0.90700225	0.0028567	0.03016	-0.02764	-9.9513	0.00	0.00	0.00
8.6	0.13500	0.1485	0.03025	0.00	0.94122875	0.0029645	0.03016	-0.02755	-9.9171	0.00	0.00	0.00
8.7	0.13785	0.151635	0.03135	0.00	0.97545525	0.0030723	0.03016	-0.02745	-9.8829	0.00	0.00	0.00
8.8	0.14080	0.15488	0.03245	0.00	1.00968175	0.0031801	0.03016	-0.02736	-9.8487	0.00	0.00	0.00
8.9	0.14385	0.158235	0.03355	0.00	1.04390825	0.0032879	0.03016	-0.02726	-9.8144	0.00	0.00	0.00
9.0	0.14700	0.1617	0.03465	0.00	1.07813475	0.0033957	0.03016	-0.02717	-9.7802	0.00	0.00	0.00
9.1	0.15020	0.16522	0.0352	0.00	1.095248	0.0034496	0.03016	-0.02712	-9.7631	0.00	0.00	0.00
9.2	0.15340	0.16874	0.0352	0.00	1.095248	0.0034496	0.03016	-0.02712	-9.7631	0.00	0.00	0.00
9.3	0.15660	0.17226	0.0352	0.00	1.095248	0.0034496	0.03016	-0.02712	-9.7631	0.00	0.00	0.00
9.4	0.15980	0.17578	0.0352	0.00	1.095248	0.0034496	0.03016	-0.02712	-9.7631	0.00	0.00	0.00
9.5	0.16300	0.1793	0.0352	0.00	1.095248	0.0034496	0.03016	-0.02712	-9.7631	0.00	0.00	0.00
9.6	0.16628	0.182908	0.03608	0.00	1.1226292	0.00353584	0.03016	-0.02704	-9.7357	0.00	0.00	0.00
9.7	0.16972	0.186692	0.03784	0.00	1.1773916	0.00370832	0.03016	-0.02689	-9.6809	0.00	0.00	0.00
9.8	0.17332	0.190652	0.0396	0.00	1.232154	0.0038808	0.03016	-0.02674	-9.6262	0.00	0.00	0.00
9.9	0.17708	0.194788	0.04136	0.00	1.2869164	0.00405328	0.03016	-0.02659	-9.5714	0.00	0.00	0.00
10.0	0.18100	0.1991	0.04312	0.00	1.3416788	0.00422576	0.03016	-0.02644	-9.5167	0.00	0.00	0.00
10.1	0.18512	0.203632	0.04532	0.00	1.4101318	0.00444136	0.03016	-0.02625	-9.4482	0.00	0.00	0.00
10.2	0.18948	0.208428	0.04796	0.00	1.4922754	0.00470008	0.03016	-0.02602	-9.3661	0.00	0.00	0.00
10.3	0.19408	0.213488	0.0506	0.00	1.574419	0.0049588	0.03016	-0.02579	-9.2839	0.00	0.00	0.00
10.4	0.19892	0.218812	0.05324	0.00	1.6565626	0.00521752	0.03016	-0.02556	-9.2018	0.00	0.00	0.00
10.5	0.20400	0.2244	0.05588	0.00	1.7387062	0.00547624	0.03016	-0.02533	-9.1196	0.00	0.00	0.00
10.6	0.20940	0.23034	0.0594	0.01	1.848231	0.0058212	0.03016	-0.02503	-9.0101	0.00	0.00	0.00
10.7	0.21520	0.23672	0.0638	0.01	1.985137	0.0062524	0.03016	-0.02465	-8.8732	0.00	0.00	0.00
10.8	0.22140	0.24354	0.0682	0.01	2.122043	0.0066836	0.03016	-0.02427	-8.7363	0.00	0.00	0.00
10.9	0.22800	0.2508	0.0726	0.01	2.258949	0.0071148	0.03016	-0.02389	-8.5994	0.00	0.00	0.00
11.0	0.23500	0.2585	0.077	0.01	2.395855	0.007546	0.03016	-0.02351	-8.4625	0.00	0.00	0.00
11.1	0.24268	0.266948	0.08448	0.01	2.6285952	0.00827904	0.03016	-0.02286	-8.2297	0.00	0.00	0.00
11.2	0.25132	0.276452	0.09504	0.01	2.9571696	0.00931392	0.03016	-0.02195	-7.9012	0.00	0.00	0.00
11.3	0.26092	0.287012	0.1056	0.01	3.285744	0.0103488	0.03016	-0.02103	-7.5726	0.00	0.00	0.00
11.4	0.27148	0.298628	0.11816	0.01	3.6143184	0.01138368	0.03016	-0.02012	-7.2440	0.00	0.00	0.00
11.5	0.28300	0.3113	0.12672	0.01	3.9428928	0.01241856	0.03016	-0.01921	-6.9154	0.00	0.00	0.00
11.6	0.30684	0.337524	0.26224	0.02	8.1595976	0.02569952	0.03016	-0.00750	-2.6987	0.00	0.00	0.00
11.7	0.35436	0.389796	0.52272	0.05	16.2644328	0.05122656	0.03016	0.01502	5.4061	5.41	0.00	0.06
11.8	0.43079	0.473869	0.84073	0.07	26.159314	0.08239154	0.03016	0.04250	15.3010	20.71	0.00	0.23
11.9	0.56786	0.624646	1.50777	0.13	46.9142636	0.14778146	0.03016	0.10016	36.0559	56.76	0.00	0.63
12.0	0.86300	0.7293	1.04654	0.09	32.5630921	0.10256092	0.03016	0.06029	21.7048	78.47	0.00	0.87
12.1	0.68196	0.750156	0.20656	0.02	6.4893444	0.02043888	0.03016	-0.01214	-4.3690	74.10	0.00	0.82
12.2	0.69864	0.768504	0.18348	0.02	5.7089802	0.01798104	0.03016	-0.01430	-5.1494	68.95	0.00	0.76
12.3	0.71304	0.784344	0.1584	0.01	4.928616	0.0155232	0.03016	-0.01647	-5.9297	63.02	0.00	0.70
12.4	0.72516	0.797676	0.13332	0.01	4.1482518	0.01306536	0.03016	-0.01864	-6.7101	56.31	0.00	0.62
12.5	0.73500	0.8085	0.10824	0.01	3.3678876	0.01060752	0.03016	-0.02081	-7.4904	48.82	0.00	0.54
12.6	0.74344	0.817784	0.09284	0.01	2.8887166	0.00909832	0.03016	-0.02214	-7.9696	40.85	0.00	0.45
12.7	0.75136	0.826496	0.08712	0.01	2.7107388	0.00853776	0.03016	-0.02263	-8.1476	32.70	0.00	0.36
12.8	0.75876	0.834636	0.0814	0.01	2.532761	0.0079772	0.03016	-0.02313	-8.3256	24.38	0.00	0.27
12.9	0.76564	0.842204	0.07568	0.01	2.3547832	0.00741664	0.03016	-0.02362	-8.5036	15.87	0.00	0.18
13.0	0.77200	0.8492	0.06996	0.01	2.1768054	0.00685608	0.03016	-0.02412	-8.6815	7.19	0.00	0.08
13.1	0.77796	0.855756	0.06556	0.01	2.0398994	0.00642488	0.03016	-0.02450	-8.8184	0.00	0.00	0.00
13.2	0.78364	0.862004	0.06248	0.01	1.9440652	0.00612304	0.03016	-0.02476	-8.9143	0.00	0.00	0.00
13.3	0.78904	0.867944	0.0594	0.01	1.848231	0.0058212	0.03016	-0.02503	-9.0101	0.00	0.00	0.00
13.4	0.79416	0.873576	0.05632	0.00	1.7523988	0.00551936	0.03016	-0.02529	-9.1059	0.00	0.00	0.00
13.5	0.79900	0.8789	0.05324	0.00	1.6565626	0.00521752	0.03016	-0.02556	-9.2018	0.00	0.00	0.00
13.6	0.80360	0.88396	0.0506	0.00	1.574419	0.0049588	0.03016	-0.02579	-9.2839	0.00	0.00	0.00
13.7	0.80800	0.8888	0.0484	0.00	1.505986	0.0047432	0.03016	-0.02598	-9.3524	0.00	0.00	0.00
13.8	0.81220	0.89342	0.0462	0.00	1.437513	0.0045276	0.03016	-0.02617	-9.4208	0.00	0.00	0.00
13.9	0.81620	0.89782	0.044	0.00	1.36906	0.004312	0.03016	-0.02636	-9.4893	0.00	0.00	0.00
14.0	0.82000	0.902	0.0418	0.00	1.300607	0.0040964	0.03016	-0.02655	-9.5577	0.00	0.00	0.00
14.1	0.82367	0.906037	0.04037	0.00	1.25611255	0.00395626	0.03016	-0.02667	-9.6022	0.00	0.00	0.00
14.2	0.82726	0.909986	0.03949	0.00	1.22873135	0.00387002	0.03016	-0.02675	-9.6296	0.00	0.00	0.00
14.3	0.83079	0.913869	0.03883	0.00	1.20819545	0.00380534	0.03016	-0.02681	-9.6501	0.00	0.00	0.00
14.4	0.83424	0.917684	0.03795	0.00	1.18081425	0.0037191	0.03016	-0.02688	-9.6775	0.00	0.00	0.00
14.5	0.83763	0.921393	0.03729	0.00	1.16027835	0.00365442	0.03016	-0.02694	-9.6981	0.00	0.00	0.00
14.6	0.84094	0.925034	0.03641	0.00	1.13289715	0.00356818	0.03016	-0.02702	-9.7254	0.00	0.00	0.00
14.7	0.84419	0.928609	0.03575	0.00	1.11236125	0.0035035	0.03016	-0.02707	-9.7460	0.00	0.00	0.00
14.8	0.84736	0.932096	0.03487	0.00	1.08498005	0.00341726	0.03016	-0.02715	-9.7734	0.00	0.00	0.00
14.9	0.85047	0.935517	0.03421	0.00	1.06444415	0.00335258	0.03016	-0.02721	-9.7939	0.00	0.00	0.00
15.0	0.85350	0.93885	0.03333	0.00	1.03706295	0.00326634	0.03016	-0.02728	-9.8213	0.00	0.00	0.00
15.1	0.85647	0.942117	0.03267	0.00	1.01652705	0.00320166	0.03016	-0.02734	-9.8418	0.00	0.00	0.00
15.2	0.85936	0.945296	0.03179	0.00	0.99914585	0.00311542	0.03016	-0.02741	-9.8692	0.00	0.00	0.00
15.3	0.86219	0.948409	0.03113	0.00	0.96860995	0.00305074	0.03016	-0.02747	-9.8897	0.00	0.00	0.00
15.4	0.86494	0.951434	0.03025	0.00	0.94122875	0.0029645	0.03016	-0.02755	-9.9171	0.00	0.00	0.00
15.5	0.86763	0.954393	0.02959	0.00	0.92069285	0.00289982	0.03016	-0.02760	-9.9376	0.00	0.00	0.00
15.6	0.87024	0.957264	0.02871	0.00	0.89331165	0.00281358	0.03016	-0.02768	-9.9650	0.00	0.00	0.00
15.7	0.87279	0.960069	0.02805	0.00	0.87277575	0.0027489	0.03016	-0.02774	-9.9856	0.00	0.00	0.00
15.8	0.87526	0.962786	0.02717	0.00	0.84539455	0.00266266	0.03016	-0.02781	-10.0129	0.00	0.00	0.00
15.9	0.87767	0.965437	0.02651	0.00	0.82485865	0.00259798	0.03016	-0.02787	-10.0335	0.00	0.00	0.00
16.0	0.88000	0.968	0.02563	0.00	0.79747745	0.00251174	0.03016	-0.02795	-10.0609	0.00	0.00	0.00
16.1	0.88229	0.970519	0.02519	0.00	0.78376685	0.00246862	0.03016	-0.02798	-10.0745	0.00	0.00	0.00
16.2	0.88455	0.973005	0.02486	0.00	0.7735189	0.00243628	0.03016	-0.02801	-10.0848	0.00	0.00	0.00
16.3	0.88679	0.975469	0.02464	0.00	0.7666736	0.00241472	0.03016	-0.02803	-10.0917	0.00	0.00	0.00
16.4	0.88900	0.9779	0.02431	0.00	0.75640585	0.00238238	0.03016	-0.02806	-10.1019	0.00	0.00	0.00
16.5	0.89119	0.980309	0.02409	0.00	0.74956035	0.00236082	0.03016	-0.02808	-10.1088	0.00	0.00	0.00
16.6	0.89335	0.982685	0.02376	0.00	0.7392924	0.00232848	0.03016	-0.02811	-10.1190	0.00	0.00	0.00

16.7	0.89549	0.985039	0.02354	0.00	0.7324471	0.00230692	0.03016	-0.02813	-10.1259	0.00	0.00	0.00
16.8	0.89760	0.98736	0.02321	0.00	0.72217915	0.00227458	0.03016	-0.02816	-10.1362	0.00	0.00	0.00
16.9	0.89969	0.989659	0.02299	0.00	0.71533385	0.00225302	0.03016	-0.02817	-10.1430	0.00	0.00	0.00
17.0	0.90175	0.991925	0.02266	0.00	0.7050659	0.00222068	0.03016	-0.02820	-10.1533	0.00	0.00	0.00
17.1	0.90379	0.994169	0.02244	0.00	0.6982206	0.00219912	0.03016	-0.02822	-10.1601	0.00	0.00	0.00
17.2	0.90580	0.99638	0.02211	0.00	0.68795265	0.00216678	0.03016	-0.02825	-10.1704	0.00	0.00	0.00
17.3	0.90779	0.998569	0.02189	0.00	0.68110735	0.00214522	0.03016	-0.02827	-10.1772	0.00	0.00	0.00
17.4	0.90975	1.000725	0.02156	0.00	0.6708394	0.00211288	0.03016	-0.02830	-10.1875	0.00	0.00	0.00
17.5	0.91169	1.002859	0.02134	0.00	0.6639941	0.00209132	0.03016	-0.02832	-10.1943	0.00	0.00	0.00
17.6	0.91360	1.00496	0.02101	0.00	0.65372615	0.00205898	0.03016	-0.02835	-10.2046	0.00	0.00	0.00
17.7	0.91549	1.007039	0.02079	0.00	0.64688085	0.00203742	0.03016	-0.02837	-10.2115	0.00	0.00	0.00
17.8	0.91735	1.009085	0.02046	0.00	0.6366129	0.00200508	0.03016	-0.02839	-10.2217	0.00	0.00	0.00
17.9	0.91919	1.011109	0.02024	0.00	0.6297676	0.00198352	0.03016	-0.02841	-10.2286	0.00	0.00	0.00
18.0	0.92100	1.0131	0.01991	0.00	0.61949965	0.00195118	0.03016	-0.02844	-10.2388	0.00	0.00	0.00
18.1	0.92279	1.015069	0.01969	0.00	0.61265435	0.00192962	0.03016	-0.02846	-10.2457	0.00	0.00	0.00
18.2	0.92455	1.017005	0.01936	0.00	0.6023864	0.00189728	0.03016	-0.02849	-10.2559	0.00	0.00	0.00
18.3	0.92629	1.018919	0.01914	0.00	0.5955411	0.00187572	0.03016	-0.02851	-10.2628	0.00	0.00	0.00
18.4	0.92800	1.0208	0.01881	0.00	0.58527315	0.00184338	0.03016	-0.02854	-10.2731	0.00	0.00	0.00
18.5	0.92969	1.022659	0.01859	0.00	0.57842785	0.00182182	0.03016	-0.02856	-10.2799	0.00	0.00	0.00
18.6	0.93135	1.024485	0.01826	0.00	0.5681599	0.00178948	0.03016	-0.02858	-10.2902	0.00	0.00	0.00
18.7	0.93299	1.026289	0.01804	0.00	0.5613146	0.00176792	0.03016	-0.02860	-10.2970	0.00	0.00	0.00
18.8	0.93460	1.02806	0.01771	0.00	0.55104665	0.00173558	0.03016	-0.02863	-10.3073	0.00	0.00	0.00
18.9	0.93619	1.029809	0.01749	0.00	0.54420135	0.00171402	0.03016	-0.02865	-10.3141	0.00	0.00	0.00
19.0	0.93775	1.031525	0.01716	0.00	0.5339334	0.00168168	0.03016	-0.02868	-10.3244	0.00	0.00	0.00
19.1	0.93929	1.033219	0.01694	0.00	0.5270881	0.00166012	0.03016	-0.02870	-10.3312	0.00	0.00	0.00
19.2	0.94080	1.03488	0.01661	0.00	0.51682015	0.00162778	0.03016	-0.02873	-10.3415	0.00	0.00	0.00
19.3	0.94229	1.036519	0.01639	0.00	0.50997485	0.00160622	0.03016	-0.02875	-10.3484	0.00	0.00	0.00
19.4	0.94375	1.038125	0.01606	0.00	0.4997069	0.00157388	0.03016	-0.02877	-10.3586	0.00	0.00	0.00
19.5	0.94519	1.039709	0.01584	0.00	0.4928616	0.00155232	0.03016	-0.02879	-10.3655	0.00	0.00	0.00
19.6	0.94660	1.04126	0.01551	0.00	0.48259365	0.00151998	0.03016	-0.02882	-10.3757	0.00	0.00	0.00
19.7	0.94799	1.042789	0.01529	0.00	0.47574835	0.00149842	0.03016	-0.02884	-10.3826	0.00	0.00	0.00
19.8	0.94935	1.044285	0.01496	0.00	0.4654804	0.00146608	0.03016	-0.02887	-10.3929	0.00	0.00	0.00
19.9	0.95069	1.045759	0.01474	0.00	0.4586351	0.00144452	0.03016	-0.02889	-10.3997	0.00	0.00	0.00
20.0	0.95200	1.0472	0.01441	0.00	0.44838715	0.00141218	0.03016	-0.02892	-10.4100	0.00	0.00	0.00
20.1	0.95330	1.04863	0.0143	0.00	0.4449445	0.0014014	0.03016	-0.02893	-10.4134	0.00	0.00	0.00
20.2	0.95459	1.050049	0.01419	0.00	0.44152185	0.00139062	0.03016	-0.02894	-10.4168	0.00	0.00	0.00
20.3	0.95588	1.051468	0.01419	0.00	0.44152185	0.00139062	0.03016	-0.02894	-10.4168	0.00	0.00	0.00
20.4	0.95716	1.052876	0.01408	0.00	0.4380992	0.00137984	0.03016	-0.02895	-10.4202	0.00	0.00	0.00
20.5	0.95844	1.054284	0.01408	0.00	0.4380992	0.00137984	0.03016	-0.02895	-10.4202	0.00	0.00	0.00
20.6	0.95971	1.055681	0.01397	0.00	0.43467655	0.00136906	0.03016	-0.02895	-10.4237	0.00	0.00	0.00
20.7	0.96098	1.057078	0.01397	0.00	0.43467655	0.00136906	0.03016	-0.02895	-10.4237	0.00	0.00	0.00
20.8	0.96224	1.058464	0.01386	0.00	0.4312539	0.00135828	0.03016	-0.02896	-10.4271	0.00	0.00	0.00
20.9	0.96350	1.05985	0.01386	0.00	0.4312539	0.00135828	0.03016	-0.02896	-10.4271	0.00	0.00	0.00
21.0	0.96475	1.061225	0.01375	0.00	0.42783125	0.0013475	0.03016	-0.02897	-10.4305	0.00	0.00	0.00
21.1	0.96600	1.0626	0.01375	0.00	0.42783125	0.0013475	0.03016	-0.02897	-10.4305	0.00	0.00	0.00
21.2	0.96724	1.063964	0.01364	0.00	0.4244086	0.00133672	0.03016	-0.02898	-10.4339	0.00	0.00	0.00
21.3	0.96848	1.065328	0.01364	0.00	0.4244086	0.00133672	0.03016	-0.02898	-10.4339	0.00	0.00	0.00
21.4	0.96971	1.066681	0.01353	0.00	0.42098595	0.00132594	0.03016	-0.02899	-10.4373	0.00	0.00	0.00
21.5	0.97094	1.068034	0.01353	0.00	0.42098595	0.00132594	0.03016	-0.02899	-10.4373	0.00	0.00	0.00
21.6	0.97216	1.069376	0.01342	0.00	0.4175633	0.00131516	0.03016	-0.02900	-10.4408	0.00	0.00	0.00
21.7	0.97338	1.070718	0.01342	0.00	0.4175633	0.00131516	0.03016	-0.02900	-10.4408	0.00	0.00	0.00
21.8	0.97459	1.072049	0.01331	0.00	0.41414085	0.00130438	0.03016	-0.02901	-10.4442	0.00	0.00	0.00
21.9	0.97580	1.07338	0.01331	0.00	0.41414085	0.00130438	0.03016	-0.02901	-10.4442	0.00	0.00	0.00
22.0	0.97700	1.0747	0.0132	0.00	0.410718	0.0012936	0.03016	-0.02902	-10.4476	0.00	0.00	0.00
22.1	0.97820	1.07602	0.0132	0.00	0.410718	0.0012936	0.03016	-0.02902	-10.4476	0.00	0.00	0.00
22.2	0.97939	1.077329	0.01309	0.00	0.40729535	0.00128282	0.03016	-0.02903	-10.4510	0.00	0.00	0.00
22.3	0.98058	1.078638	0.01309	0.00	0.40729535	0.00128282	0.03016	-0.02903	-10.4510	0.00	0.00	0.00
22.4	0.98176	1.079936	0.01298	0.00	0.4038727	0.00127204	0.03016	-0.02904	-10.4545	0.00	0.00	0.00
22.5	0.98294	1.081234	0.01298	0.00	0.4038727	0.00127204	0.03016	-0.02904	-10.4545	0.00	0.00	0.00
22.6	0.98411	1.082521	0.01287	0.00	0.40045005	0.00126126	0.03016	-0.02905	-10.4579	0.00	0.00	0.00
22.7	0.98528	1.083808	0.01287	0.00	0.40045005	0.00126126	0.03016	-0.02905	-10.4579	0.00	0.00	0.00
22.8	0.98644	1.085084	0.01276	0.00	0.3970274	0.00125048	0.03016	-0.02906	-10.4613	0.00	0.00	0.00
22.9	0.98760	1.08636	0.01276	0.00	0.3970274	0.00125048	0.03016	-0.02906	-10.4613	0.00	0.00	0.00
23.0	0.98875	1.087625	0.01265	0.00	0.39360475	0.0012397	0.03016	-0.02907	-10.4647	0.00	0.00	0.00
23.1	0.98990	1.08889	0.01265	0.00	0.39360475	0.0012397	0.03016	-0.02907	-10.4647	0.00	0.00	0.00
23.2	0.99104	1.090144	0.01254	0.00	0.3901821	0.00122892	0.03016	-0.02908	-10.4682	0.00	0.00	0.00
23.3	0.99218	1.091398	0.01254	0.00	0.3901821	0.00122892	0.03016	-0.02908	-10.4682	0.00	0.00	0.00
23.4	0.99331	1.092641	0.01243	0.00	0.38675945	0.00121814	0.03016	-0.02909	-10.4716	0.00	0.00	0.00
23.5	0.99444	1.093884	0.01243	0.00	0.38675945	0.00121814	0.03016	-0.02909	-10.4716	0.00	0.00	0.00
23.6	0.99556	1.095116	0.01232	0.00	0.3833368	0.00120736	0.03016	-0.02910	-10.4750	0.00	0.00	0.00
23.7	0.99668	1.096348	0.01232	0.00	0.3833368	0.00120736	0.03016	-0.02910	-10.4750	0.00	0.00	0.00
23.8	0.99779	1.097569	0.01221	0.00	0.37991415	0.00119658	0.03016	-0.02911	-10.4784	0.00	0.00	0.00
23.9	0.99890	1.09879	0.01221	0.00	0.37991415	0.00119658	0.03016	-0.02911	-10.4784	0.00	0.00	0.00
24.0	1.0000	1.1	0.0121	0.00	0.3764915	0.0011858	0.03016	-0.02912	-10.4818	0.00	0.00	0.00
24.1	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
24.2	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
24.3	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
24.4	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
24.5	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
24.6	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
24.7	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
24.8	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
24.9	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
25.0	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
25.1	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
25.2	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
25.3	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
25.4	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
25.5	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
25.6	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
25.7	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
25.8	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
25.9	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
26.0	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
26.1	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
26.2	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
26.3	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
26.4	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
26.5	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
26.6	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
26.7	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
26.8	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
26.9	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
27.0	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
27.1	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
27.2	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
27.3	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
27.4	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
27.5	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00
27.6	1.0000	1.1	0	0.00	0	0	0.03016	-0.03016	-10.8583	0.00	0.00	0.00

Becker Soil & Water Conservation District

RAIN GARDEN SIZING CALCULATOR

Name: Middle Cormorant Beach - Rain Garden A

24 Hour Storm, SBUH Type 2 Rainfall Distribution

2/14/2018

USER INPUTS

24 Hour Rainfall Depth =	1.1	in	Enter
Drainage area =	3446	sf	Enter
Drainage Area Runoff Coefficient =	0.98		0.9 - 0.98 for imp surface
Native Soil Infiltration Rate =	1	in/hr	Enter
Depth of Rock Trench Below Rain Garden (optional) =	0	inches	Enter, optional
Void Ratio for RockTrench =	100%	%	Typically 40% for uniformly graded rock
Bottom of Rain Garden Area =	306	sf	Adjust this until max ponding depth in raingarden is 12 inches and the facility is completely empty in 30 hours

CALCULATED DESIGN CRITERIA

Maximum Ponding Depth in Rain Garden =	5.49	in	Calculated
Depth of Water Left in Rock Trench After 30 Hours =	0.00	in	Calculated
Depth of Water Left in Rain Garden After 30 Hours =	0.00	in	Calculated
Rain Garden Area is Adequately Sized?	TRUE		Calculated, if FALSE, increase Rain Garden Area and/or Depth of Rock Trench Below Rain Garden until TRUE

OTHER CALCULATED VALUES

Peak Rainfall Intensity =	1.51	in/hr	Calculated from distribution
Ratio of Rain Garden to Drainage Area =	0.089		Calculated (aka Sizing Factor)
Storage Capacity of Rock Trench=	0.00	cf	Calculated

Native Soil Infiltration Rate

Sandy Loam:	1
Loamy Sand	2
Loam:	0.8
Clay Loam	0.5
Clay:	0.2

SBUH HYDROGRAPH

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Time(hrs)	%of total rain	Rain Total	Intensity (in/hr)	Inflow Rate (cfs)	Inflow Volume (cf)	Runoff Depth (in)	Facility Infiltration Rate (cfs)	Inflow Rate - Facility Infiltration Rate (cfs)	Inflow Volume - Infiltration Volume (cf)	Cumulative Inflow Volume to be Stored (cf)	Rock Trench Ponding (if incl in design) (in)	Rain Garden Ponding Depth (in)
0.0	0.00000	0	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
0.1	0.00101	0.001111	0.01111	0.00	0.31266132	0.00108878	0.00708	-0.00621	-2.2373	0.00	0.00	0.00
0.2	0.00202	0.002222	0.01111	0.00	0.31266132	0.00108878	0.00708	-0.00621	-2.2373	0.00	0.00	0.00
0.3	0.00305	0.003355	0.01133	0.00	0.31885264	0.00111034	0.00708	-0.00620	-2.2311	0.00	0.00	0.00
0.4	0.00408	0.004488	0.01133	0.00	0.31885264	0.00111034	0.00708	-0.00620	-2.2311	0.00	0.00	0.00
0.5	0.00513	0.005643	0.01155	0.00	0.32504395	0.0011319	0.00708	-0.00618	-2.2250	0.00	0.00	0.00
0.6	0.00618	0.006798	0.01155	0.00	0.32504395	0.0011319	0.00708	-0.00618	-2.2250	0.00	0.00	0.00
0.7	0.00725	0.007975	0.01177	0.00	0.33123526	0.00115346	0.00708	-0.00616	-2.2188	0.00	0.00	0.00
0.8	0.00832	0.009152	0.01177	0.00	0.33123526	0.00115346	0.00708	-0.00616	-2.2188	0.00	0.00	0.00
0.9	0.00941	0.010351	0.01199	0.00	0.33742658	0.00117502	0.00708	-0.00615	-2.2126	0.00	0.00	0.00
1.0	0.01050	0.01155	0.01199	0.00	0.33742658	0.00117502	0.00708	-0.00615	-2.2126	0.00	0.00	0.00
1.1	0.01161	0.012771	0.01221	0.00	0.34361789	0.00119658	0.00708	-0.00613	-2.2064	0.00	0.00	0.00
1.2	0.01272	0.013992	0.01221	0.00	0.34361789	0.00119658	0.00708	-0.00613	-2.2064	0.00	0.00	0.00
1.3	0.01385	0.015235	0.01243	0.00	0.3498092	0.00121814	0.00708	-0.00611	-2.2002	0.00	0.00	0.00
1.4	0.01498	0.016478	0.01243	0.00	0.3498092	0.00121814	0.00708	-0.00611	-2.2002	0.00	0.00	0.00
1.5	0.01613	0.017743	0.01265	0.00	0.35600052	0.0012397	0.00708	-0.00609	-2.1940	0.00	0.00	0.00
1.6	0.01728	0.019008	0.01265	0.00	0.35600052	0.0012397	0.00708	-0.00609	-2.1940	0.00	0.00	0.00
1.7	0.01845	0.020295	0.01287	0.00	0.36219183	0.00126126	0.00708	-0.00608	-2.1878	0.00	0.00	0.00
1.8	0.01962	0.021582	0.01287	0.00	0.36219183	0.00126126	0.00708	-0.00608	-2.1878	0.00	0.00	0.00
1.9	0.02081	0.022891	0.01309	0.00	0.36838314	0.00128282	0.00708	-0.00606	-2.1816	0.00	0.00	0.00
2.0	0.02200	0.0242	0.01309	0.00	0.36838314	0.00128282	0.00708	-0.00606	-2.1816	0.00	0.00	0.00
2.1	0.02321	0.025531	0.01331	0.00	0.37457446	0.00130438	0.00708	-0.00604	-2.1754	0.00	0.00	0.00
2.2	0.02442	0.026862	0.01331	0.00	0.37457446	0.00130438	0.00708	-0.00604	-2.1754	0.00	0.00	0.00
2.3	0.02565	0.028215	0.01353	0.00	0.38076577	0.00132594	0.00708	-0.00603	-2.1692	0.00	0.00	0.00
2.4	0.02688	0.029568	0.01353	0.00	0.38076577	0.00132594	0.00708	-0.00603	-2.1692	0.00	0.00	0.00
2.5	0.02813	0.030943	0.01375	0.00	0.38695708	0.0013475	0.00708	-0.00601	-2.1630	0.00	0.00	0.00
2.6	0.02938	0.032318	0.01375	0.00	0.38695708	0.0013475	0.00708	-0.00601	-2.1630	0.00	0.00	0.00
2.7	0.03065	0.033715	0.01397	0.00	0.3931484	0.00136906	0.00708	-0.00599	-2.1569	0.00	0.00	0.00
2.8	0.03192	0.035112	0.01397	0.00	0.3931484	0.00136906	0.00708	-0.00599	-2.1569	0.00	0.00	0.00
2.9	0.03321	0.036531	0.01419	0.00	0.39933971	0.00139062	0.00708	-0.00597	-2.1507	0.00	0.00	0.00
3.0	0.03450	0.03795	0.01419	0.00	0.39933971	0.00139062	0.00708	-0.00597	-2.1507	0.00	0.00	0.00
3.1	0.03581	0.039391	0.01441	0.00	0.40553102	0.00141218	0.00708	-0.00596	-2.1445	0.00	0.00	0.00
3.2	0.03712	0.040832	0.01441	0.00	0.40553102	0.00141218	0.00708	-0.00596	-2.1445	0.00	0.00	0.00
3.3	0.03845	0.042295	0.01463	0.00	0.41172234	0.00143374	0.00708	-0.00594	-2.1383	0.00	0.00	0.00
3.4	0.03978	0.043758	0.01463	0.00	0.41172234	0.00143374	0.00708	-0.00594	-2.1383	0.00	0.00	0.00
3.5	0.04113	0.045243	0.01485	0.00	0.41791365	0.0014553	0.00708	-0.00592	-2.1321	0.00	0.00	0.00
3.6	0.04248	0.046728	0.01485	0.00	0.41791365	0.0014553	0.00708	-0.00592	-2.1321	0.00	0.00	0.00
3.7	0.04385	0.048235	0.01507	0.00	0.42410496	0.00147686	0.00708	-0.00591	-2.1259	0.00	0.00	0.00
3.8	0.04522	0.049742	0.01507	0.00	0.42410496	0.00147686	0.00708	-0.00591	-2.1259	0.00	0.00	0.00
3.9	0.04661	0.051271	0.01529	0.00	0.43029628	0.00149842	0.00708	-0.00589	-2.1197	0.00	0.00	0.00
4.0	0.04800	0.0528	0.01529	0.00	0.43029628	0.00149842	0.00708	-0.00589	-2.1197	0.00	0.00	0.00
4.1	0.04941	0.054351	0.01551	0.00	0.43648759	0.00151998	0.00708	-0.00587	-2.1135	0.00	0.00	0.00
4.2	0.05084	0.055924	0.01573	0.00	0.4426789	0.00154154	0.00708	-0.00585	-2.1073	0.00	0.00	0.00
4.3	0.05229	0.057519	0.01595	0.00	0.44887022	0.0015631	0.00708	-0.00584	-2.1011	0.00	0.00	0.00
4.4	0.05376	0.059136	0.01617	0.00	0.45506153	0.00158466	0.00708	-0.00582	-2.0949	0.00	0.00	0.00
4.5	0.05525	0.060775	0.01639	0.00	0.46125284	0.00160622	0.00708	-0.00580	-2.0887	0.00	0.00	0.00
4.6	0.05676	0.062436	0.01661	0.00	0.46744416	0.00162778	0.00708	-0.00578	-2.0826	0.00	0.00	0.00
4.7	0.05829	0.064119	0.01683	0.00	0.47363547	0.00164934	0.00708	-0.00577	-2.0764	0.00	0.00	0.00
4.8	0.05984	0.065824	0.01705	0.00	0.47982678	0.0016709	0.00708	-0.00575	-2.0702	0.00	0.00	0.00
4.9	0.06141	0.067551	0.01727	0.00	0.4860181	0.00169246	0.00708	-0.00573	-2.0640	0.00	0.00	0.00
5.0	0.06300	0.0693	0.01749	0.00	0.49220941	0.00171402	0.00708	-0.00572	-2.0578	0.00	0.00	0.00
5.1	0.06461	0.071071	0.01771	0.00	0.49840072	0.00173558	0.00708	-0.00570	-2.0516	0.00	0.00	0.00
5.2	0.06624	0.072864	0.01793	0.00	0.50459204	0.00175714	0.00708	-0.00568	-2.0454	0.00	0.00	0.00
5.3	0.06789	0.074679	0.01815	0.00	0.51078335	0.0017787	0.00708	-0.00566	-2.0392	0.00	0.00	0.00
5.4	0.06956	0.076516	0.01837	0.00	0.51697466	0.00180026	0.00708	-0.00565	-2.0330	0.00	0.00	0.00

5.5	0.07125	0.078375	0.01859	0.00	0.52316598	0.00182162	0.00708	-0.00563	-2.0268	0.00	0.00	0.00
5.6	0.07296	0.080256	0.01881	0.00	0.52935729	0.00184338	0.00708	-0.00561	-2.0206	0.00	0.00	0.00
5.7	0.07469	0.082159	0.01903	0.00	0.5355486	0.00186494	0.00708	-0.00560	-2.0145	0.00	0.00	0.00
5.8	0.07644	0.084084	0.01925	0.00	0.54173992	0.0018865	0.00708	-0.00558	-2.0083	0.00	0.00	0.00
5.9	0.07821	0.086031	0.01947	0.00	0.54793123	0.00190806	0.00708	-0.00556	-2.0021	0.00	0.00	0.00
6.0	0.08000	0.088	0.01969	0.00	0.55412254	0.00192962	0.00708	-0.00554	-1.9959	0.00	0.00	0.00
6.1	0.08181	0.089991	0.01991	0.00	0.56031386	0.00195118	0.00708	-0.00553	-1.9897	0.00	0.00	0.00
6.2	0.08364	0.092004	0.02013	0.00	0.56650517	0.00197274	0.00708	-0.00551	-1.9835	0.00	0.00	0.00
6.3	0.08549	0.094039	0.02035	0.00	0.57269648	0.0019943	0.00708	-0.00549	-1.9773	0.00	0.00	0.00
6.4	0.08736	0.096096	0.02057	0.00	0.5788878	0.00201586	0.00708	-0.00548	-1.9711	0.00	0.00	0.00
6.5	0.08925	0.098175	0.02079	0.00	0.58507911	0.00203742	0.00708	-0.00546	-1.9649	0.00	0.00	0.00
6.6	0.09116	0.100276	0.02101	0.00	0.59127042	0.00205898	0.00708	-0.00544	-1.9587	0.00	0.00	0.00
6.7	0.09309	0.102399	0.02123	0.00	0.59746174	0.00208054	0.00708	-0.00542	-1.9525	0.00	0.00	0.00
6.8	0.09504	0.104544	0.02145	0.00	0.60365305	0.0021021	0.00708	-0.00541	-1.9463	0.00	0.00	0.00
6.9	0.09701	0.106711	0.02167	0.00	0.60984436	0.00212366	0.00708	-0.00539	-1.9402	0.00	0.00	0.00
7.0	0.09900	0.1089	0.02189	0.00	0.61603568	0.00214522	0.00708	-0.00537	-1.9340	0.00	0.00	0.00
7.1	0.10101	0.111111	0.02211	0.00	0.62222699	0.00216678	0.00708	-0.00535	-1.9278	0.00	0.00	0.00
7.2	0.10304	0.113344	0.02233	0.00	0.6284183	0.00218834	0.00708	-0.00534	-1.9216	0.00	0.00	0.00
7.3	0.10509	0.115598	0.02255	0.00	0.63460962	0.0022099	0.00708	-0.00532	-1.9154	0.00	0.00	0.00
7.4	0.10716	0.117876	0.02277	0.00	0.64080093	0.00223146	0.00708	-0.00530	-1.9092	0.00	0.00	0.00
7.5	0.10925	0.120175	0.02299	0.00	0.64699224	0.00225302	0.00708	-0.00529	-1.9030	0.00	0.00	0.00
7.6	0.11136	0.122496	0.02321	0.00	0.65318356	0.00227458	0.00708	-0.00527	-1.8968	0.00	0.00	0.00
7.7	0.11349	0.124839	0.02343	0.00	0.65937487	0.00229614	0.00708	-0.00525	-1.8906	0.00	0.00	0.00
7.8	0.11564	0.127204	0.02365	0.00	0.66556618	0.0023177	0.00708	-0.00523	-1.8844	0.00	0.00	0.00
7.9	0.11781	0.129591	0.02387	0.00	0.6717575	0.00233926	0.00708	-0.00522	-1.8782	0.00	0.00	0.00
8.0	0.12000	0.132	0.02409	0.00	0.67794881	0.00236082	0.00708	-0.00520	-1.8721	0.00	0.00	0.00
8.1	0.12225	0.134475	0.02475	0.00	0.69652275	0.0024255	0.00708	-0.00515	-1.8535	0.00	0.00	0.00
8.2	0.12460	0.13706	0.02585	0.00	0.72747932	0.0025333	0.00708	-0.00506	-1.8225	0.00	0.00	0.00
8.3	0.12705	0.139755	0.02695	0.00	0.75843588	0.0026411	0.00708	-0.00498	-1.7916	0.00	0.00	0.00
8.4	0.12960	0.14256	0.02805	0.00	0.78939245	0.0027489	0.00708	-0.00489	-1.7606	0.00	0.00	0.00
8.5	0.13225	0.145475	0.02915	0.00	0.82034902	0.0028567	0.00708	-0.00480	-1.7297	0.00	0.00	0.00
8.6	0.13500	0.1485	0.03025	0.00	0.85130558	0.0029645	0.00708	-0.00472	-1.6987	0.00	0.00	0.00
8.7	0.13785	0.151635	0.03135	0.00	0.88226215	0.0030723	0.00708	-0.00463	-1.6677	0.00	0.00	0.00
8.8	0.14080	0.15488	0.03245	0.00	0.91321872	0.0031801	0.00708	-0.00455	-1.6368	0.00	0.00	0.00
8.9	0.14385	0.158235	0.03355	0.00	0.94417528	0.0032879	0.00708	-0.00446	-1.6058	0.00	0.00	0.00
9.0	0.14700	0.1617	0.03465	0.00	0.97513185	0.0033957	0.00708	-0.00437	-1.5749	0.00	0.00	0.00
9.1	0.15020	0.16522	0.0352	0.00	0.99061013	0.0034496	0.00708	-0.00433	-1.5594	0.00	0.00	0.00
9.2	0.15340	0.16874	0.0352	0.00	0.99061013	0.0034496	0.00708	-0.00433	-1.5594	0.00	0.00	0.00
9.3	0.15660	0.17226	0.0352	0.00	0.99061013	0.0034496	0.00708	-0.00433	-1.5594	0.00	0.00	0.00
9.4	0.15980	0.17578	0.0352	0.00	0.99061013	0.0034496	0.00708	-0.00433	-1.5594	0.00	0.00	0.00
9.5	0.16300	0.1793	0.0352	0.00	0.99061013	0.0034496	0.00708	-0.00433	-1.5594	0.00	0.00	0.00
9.6	0.16628	0.182908	0.03608	0.00	1.01537539	0.00353584	0.00708	-0.00426	-1.5346	0.00	0.00	0.00
9.7	0.16972	0.186692	0.03784	0.00	1.06490589	0.00370832	0.00708	-0.00413	-1.4851	0.00	0.00	0.00
9.8	0.17332	0.190652	0.0396	0.00	1.1144384	0.0038808	0.00708	-0.00399	-1.4356	0.00	0.00	0.00
9.9	0.17708	0.194788	0.04136	0.00	1.16396691	0.00405328	0.00708	-0.00385	-1.3860	0.00	0.00	0.00
10.0	0.18100	0.1991	0.04312	0.00	1.21349741	0.00422576	0.00708	-0.00371	-1.3365	0.00	0.00	0.00
10.1	0.18512	0.203632	0.04532	0.00	1.27541055	0.00444136	0.00708	-0.00354	-1.2746	0.00	0.00	0.00
10.2	0.18948	0.208428	0.04796	0.00	1.34970631	0.00470008	0.00708	-0.00333	-1.2003	0.00	0.00	0.00
10.3	0.19408	0.213488	0.0506	0.00	1.42400207	0.0049588	0.00708	-0.00313	-1.1260	0.00	0.00	0.00
10.4	0.19892	0.218812	0.05324	0.00	1.49829783	0.00521752	0.00708	-0.00292	-1.0517	0.00	0.00	0.00
10.5	0.20400	0.2244	0.05588	0.00	1.57259359	0.00547624	0.00708	-0.00272	-0.9774	0.00	0.00	0.00
10.6	0.20940	0.23034	0.0594	0.00	1.6716546	0.0058212	0.00708	-0.00244	-0.8783	0.00	0.00	0.00
10.7	0.21520	0.23672	0.0638	0.00	1.79548087	0.0062524	0.00708	-0.00210	-0.7545	0.00	0.00	0.00
10.8	0.22140	0.24354	0.0682	0.01	1.91930713	0.0066836	0.00708	-0.00175	-0.6307	0.00	0.00	0.00
10.9	0.22800	0.2508	0.0726	0.01	2.0431334	0.0071148	0.00708	-0.00141	-0.5069	0.00	0.00	0.00
11.0	0.23500	0.2585	0.077	0.01	2.16695967	0.007546	0.00708	-0.00106	-0.3830	0.00	0.00	0.00
11.1	0.24268	0.266948	0.08448	0.01	2.37746432	0.00827904	0.00708	-0.00048	-0.1725	0.00	0.00	0.00
11.2	0.25132	0.276452	0.09504	0.01	2.67464736	0.00931392	0.00708	0.00035	0.1248	0.12	0.00	0.01
11.3	0.26092	0.287012	0.1056	0.01	2.9718304	0.0103488	0.00708	0.00117	0.4218	0.55	0.00	0.03
11.4	0.27148	0.298628	0.11616	0.01	3.26901344	0.01138368	0.00708	0.00200	0.7190	1.27	0.00	0.06
11.5	0.28300	0.3113	0.12672	0.01	3.56619648	0.01241856	0.00708	0.00282	1.0162	2.28	0.00	0.11
11.6	0.30684	0.337524	0.26224	0.02	7.38004549	0.02569952	0.00708	0.01342	4.8300	7.11	0.00	0.33
11.7	0.35436	0.389796	0.52272	0.04	14.7105605	0.05122656	0.00708	0.03378	12.1606	19.27	0.00	0.91
11.8	0.43079	0.473869	0.84073	0.07	23.6601039	0.08239154	0.00708	0.05864	21.1101	40.36	0.00	1.90
11.9	0.56786	0.624646	1.50777	0.12	42.4321659	0.14776146	0.00708	0.11078	39.8822	80.26	0.00	3.78
12.0	0.66300	0.7293	1.04654	0.08	29.4520775	0.10256092	0.00708	0.07473	26.9021	107.17	0.00	5.04
12.1	0.68196	0.750156	0.20856	0.02	5.86936504	0.02043888	0.00708	0.00922	3.3194	110.49	0.00	5.20
12.2	0.69864	0.768504	0.18348	0.01	5.16355532	0.01798104	0.00708	0.00726	2.6136	113.10	0.00	5.32
12.3	0.71304	0.784344	0.1584	0.01	4.4577456	0.0155232	0.00708	0.00530	1.9077	115.01	0.00	5.41
12.4	0.72516	0.797676	0.13332	0.01	3.75193588	0.01306536	0.00708	0.00334	1.2019	116.21	0.00	5.47
12.5	0.73500	0.8085	0.10824	0.01	3.04612616	0.01060752	0.00708	0.00138	0.4961	116.71	0.00	5.49
12.6	0.74344	0.817784	0.09284	0.01	2.61273423	0.00909832	0.00708	0.00017	0.0627	116.77	0.00	5.49
12.7	0.75136	0.826496	0.08712	0.01	2.45176008	0.00853776	0.00708	-0.00027	-0.0982	116.67	0.00	5.49
12.8	0.75876	0.834636	0.0814	0.01	2.29078593	0.0079772	0.00708	-0.00072	-0.2592	116.41	0.00	5.48
12.9	0.76564	0.842204	0.07568	0.01	2.12981179	0.00741664	0.00708	-0.00117	-0.4202	115.99	0.00	5.46
13.0	0.77200	0.8492	0.06996	0.01	1.96883764	0.00685608	0.00708	-0.00161	-0.5812	115.41	0.00	5.43
13.1	0.77796	0.855756	0.06558	0.01	1.84501137	0.00642488	0.00708	-0.00196	-0.7050	114.70	0.00	5.40
13.2	0.78364	0.862004	0.06248	0.00	1.75833299	0.00612304	0.00708	-0.00220	-0.7917	113.91	0.00	5.36
13.3	0.78904	0.867944	0.0594	0.00	1.6716546	0.0058212	0.00708	-0.00244	-0.8783	113.03	0.00	5.32
13.4	0.79416	0.873576	0.05632	0.00	1.58497621	0.00551936	0.00708	-0.00268	-0.9650	112.07	0.00	5.27
13.5	0.79900	0.8789	0.05324	0.00	1.49829783	0.00521752	0.00708	-0.00292	-1.0517	111.02	0.00	5.22
13.6	0.80360	0.88396	0.0506	0.00	1.42400207	0.0049588	0.00708	-0.00313	-1.1260	109.89	0.00	5.17
13.7	0.80800	0.8888	0.0484	0.00	1.36208893	0.0047432	0.00708	-0.00330	-1.1879	108.70	0.00	5.12
13.8	0.81220	0.89342	0.0462	0.00	1.3001758	0.0045276	0.00708	-0.00347	-1.2498	107.45	0.00	5.06
13.9	0.81620	0.89782	0.044	0.00	1.23826267	0.004312	0.00708	-0.00364	-1.3117	106.14	0.00	4.99
14.0	0.82000	0.902	0.0418	0.00	1.17634953	0.0040964	0.00708	-0.00382	-1.3737	104.77	0.00	4.93
14.1	0.82367	0.906037	0.04037	0.00	1.136106	0.00395626	0.00708	-0.00393	-1.4139	103.35	0.00	4.86
14.2	0.82726	0.909986	0.03949	0.00	1.11134074	0.00387002	0.00708	-0.00400	-1.4387	101.92	0.00	4.80
14.3	0.83079	0.913869	0.03883	0.00	1.0927688	0.00380534	0.00708	-0.00405	-1.4572	100.46	0.00	4.73
14.4	0.83424	0.917664	0.03795	0.00	1.06800155	0.0037191	0.00708	-0.00412	-1.4820	98.98	0.00	4.66
14.5	0.83763	0.921393	0.03729	0.00	1.04942761	0.00365442	0.00708	-0.00417	-1.5006	97.48	0.00	4.59
14.6	0.84094	0.925034	0.03641	0.00	1.02466236	0.00356818	0.00708	-0.00424	-1.5253	95.95	0.00	4.52
14.7	0.84419	0.928609	0.03575	0.00	1.00608842	0.0035035	0.00708	-0.00429	-1.5439	94.41	0.00	4.44
14.8	0.84736	0.932096	0.03487	0.00	0.98132316	0.00341726	0.00708	-0.00436	-1.5687	92.84	0.00	4.37
14.9	0.85047	0.935517	0.03421	0.00	0.96274922	0.00335258	0.00708	-0.00441	-1.5873	91.25	0.00	4.29
15.0	0.85350	0.93885	0.03333	0.00	0.93798397	0.00326634	0.00708	-0.00448	-1.6120	89.64	0.00	4.22
15.1	0.85647	0.942117	0.03267	0.00	0.91941003	0.00320166	0.00708	-0.00453	-1.6306	88.01	0.00	4.14
15.2	0.85936	0.945296	0.03179	0.00	0.89464478	0.00311542	0.00708	-0.00460	-1.6554	86.35	0.00	4.06
15.3	0.86219	0.948409	0.03113	0.00	0.87607084	0.00305074	0.00708	-0.00465	-1.6739	84.68	0.00	3.98
15.4	0.86494	0.951434	0.03025	0.00	0.85130558	0.0029645	0.00708	-0.00472	-1.6987	82.98	0.00	3.90
15.5	0.86763	0.954393	0.02959	0.00	0.83273164	0.00289982	0.00708	-0.00477	-1.7173	81.26	0.00	3.82
15.6	0.87024	0.957264	0.02871	0.00	0.80796639	0.00281358	0.00708	-0.00484	-1.7420	79.52	0.00	3.74
15.7	0.87279	0.960069	0.02805	0.00	0.78939245	0.0027489	0.00708	-0.00489	-1.7606	77.76	0.00	3.66
15.8	0.87526	0.962786	0.02717	0.00	0.7646272	0.00266266	0.00708	-0.00496	-1.7854	75.98	0.00	3.58
15.9	0.87767	0.965437	0.02651	0.00	0.74605326	0.00259798	0.00708	-0.00501	-1.8039	74.17	0.00	3.49
16.0	0.88000	0.968	0.02563	0.00	0.721288	0.00251174	0.00708	-0.00508	-1.8287	72.34	0.00	3.40
16.1	0.88229	0.970519	0.02519	0.00	0.70890538	0.00246862	0.00708	-0.00511	-1.8411	70.50	0.00	3.32
16.2	0.88455	0.973005	0.02486	0.00	0.69961841	0.00243628	0.00708	-0.00514	-1.8504	68.65	0.00	3.23
16.3	0.88679	0.975469	0.02464	0.00	0.69342709	0.00241472	0.00708	-0.00516	-1.8566	66.79	0.00	3.14
16.4	0.88900	0.9779	0.02431	0.00	0.68414012	0.00238238	0.00708	-0.00518	-1.8659	64.93	0.00	3.06
16.5	0.89119	0.980309	0.02409	0.00	0.67794881	0.00236082	0.00708	-0.00520	-1.8721	63.06	0.00	2.97
16.6	0.89335	0.982685	0.02376	0.00	0.66866184	0.00232848	0.00708	-0.00523	-1.8813	61.18	0.00	2.88

16.7	0.88549	0.985039	0.02354	0.00	0.66247053	0.00230692	0.00708	-0.00524	-1.8675	59.29	0.00	2.79
16.8	0.89760	0.98736	0.02321	0.00	0.65318356	0.00227458	0.00708	-0.00527	-1.8868	57.39	0.00	2.70
16.9	0.89969	0.989659	0.02299	0.00	0.64699224	0.00225302	0.00708	-0.00529	-1.9030	55.49	0.00	2.61
17.0	0.90175	0.991925	0.02266	0.00	0.63770527	0.00222068	0.00708	-0.00531	-1.9123	53.58	0.00	2.52
17.1	0.90379	0.994169	0.02244	0.00	0.63151396	0.00219912	0.00708	-0.00533	-1.9185	51.66	0.00	2.43
17.2	0.90580	0.99638	0.02211	0.00	0.62222699	0.00216678	0.00708	-0.00535	-1.9278	49.73	0.00	2.34
17.3	0.90779	0.998569	0.02189	0.00	0.61603568	0.00214522	0.00708	-0.00537	-1.9340	47.80	0.00	2.25
17.4	0.90975	1.000725	0.02156	0.00	0.60674871	0.00211288	0.00708	-0.00540	-1.9433	45.85	0.00	2.16
17.5	0.91169	1.002859	0.02134	0.00	0.60055739	0.00209132	0.00708	-0.00542	-1.9494	43.90	0.00	2.07
17.6	0.91360	1.00496	0.02101	0.00	0.59127042	0.00205898	0.00708	-0.00544	-1.9587	41.94	0.00	1.97
17.7	0.91549	1.007039	0.02079	0.00	0.58507911	0.00203742	0.00708	-0.00546	-1.9649	39.98	0.00	1.88
17.8	0.91735	1.009085	0.02046	0.00	0.57579214	0.00200508	0.00708	-0.00548	-1.9742	38.00	0.00	1.79
17.9	0.91919	1.011109	0.02024	0.00	0.56960083	0.00198352	0.00708	-0.00550	-1.9804	36.02	0.00	1.70
18.0	0.92100	1.0131	0.01991	0.00	0.56031386	0.00195118	0.00708	-0.00553	-1.9897	34.03	0.00	1.60
18.1	0.92279	1.015069	0.01969	0.00	0.55412254	0.00192962	0.00708	-0.00554	-1.9959	32.04	0.00	1.51
18.2	0.92455	1.017005	0.01936	0.00	0.54483557	0.00189728	0.00708	-0.00557	-2.0052	30.03	0.00	1.41
18.3	0.92629	1.018919	0.01914	0.00	0.53864426	0.00187572	0.00708	-0.00559	-2.0114	28.02	0.00	1.32
18.4	0.92800	1.0208	0.01881	0.00	0.52935729	0.00184338	0.00708	-0.00561	-2.0206	26.00	0.00	1.22
18.5	0.92969	1.022659	0.01859	0.00	0.52316598	0.00182182	0.00708	-0.00563	-2.0268	23.97	0.00	1.13
18.6	0.93135	1.024485	0.01826	0.00	0.51387901	0.00178948	0.00708	-0.00566	-2.0361	21.94	0.00	1.03
18.7	0.93299	1.026289	0.01804	0.00	0.50768769	0.00176792	0.00708	-0.00567	-2.0423	19.90	0.00	0.94
18.8	0.93460	1.02806	0.01771	0.00	0.49840072	0.00173558	0.00708	-0.00570	-2.0516	17.84	0.00	0.84
18.9	0.93619	1.029809	0.01749	0.00	0.49220941	0.00171402	0.00708	-0.00572	-2.0578	15.79	0.00	0.74
19.0	0.93775	1.031525	0.01716	0.00	0.48292244	0.00168168	0.00708	-0.00574	-2.0671	13.72	0.00	0.65
19.1	0.93929	1.033219	0.01694	0.00	0.47673113	0.00166012	0.00708	-0.00576	-2.0733	11.65	0.00	0.55
19.2	0.94080	1.03488	0.01661	0.00	0.46744416	0.00162778	0.00708	-0.00578	-2.0826	9.56	0.00	0.45
19.3	0.94229	1.036519	0.01639	0.00	0.46125284	0.00160622	0.00708	-0.00580	-2.0887	7.48	0.00	0.35
19.4	0.94375	1.038125	0.01606	0.00	0.45196587	0.00157388	0.00708	-0.00583	-2.0980	5.38	0.00	0.25
19.5	0.94519	1.039709	0.01584	0.00	0.44577456	0.00155232	0.00708	-0.00585	-2.1042	3.27	0.00	0.15
19.6	0.94660	1.04126	0.01551	0.00	0.43648759	0.00151998	0.00708	-0.00587	-2.1135	1.16	0.00	0.05
19.7	0.94799	1.042789	0.01529	0.00	0.43029628	0.00149842	0.00708	-0.00589	-2.1197	0.00	0.00	0.00
19.8	0.94935	1.044285	0.01496	0.00	0.42100931	0.00146608	0.00708	-0.00591	-2.1290	0.00	0.00	0.00
19.9	0.95069	1.045759	0.01474	0.00	0.41481799	0.00144452	0.00708	-0.00593	-2.1352	0.00	0.00	0.00
20.0	0.95200	1.0472	0.01441	0.00	0.40553102	0.00141218	0.00708	-0.00596	-2.1445	0.00	0.00	0.00
20.1	0.95330	1.04863	0.0143	0.00	0.40243537	0.0014014	0.00708	-0.00597	-2.1476	0.00	0.00	0.00
20.2	0.95459	1.050049	0.01419	0.00	0.39933971	0.00139062	0.00708	-0.00597	-2.1507	0.00	0.00	0.00
20.3	0.95588	1.051468	0.01419	0.00	0.39933971	0.00139062	0.00708	-0.00597	-2.1507	0.00	0.00	0.00
20.4	0.95716	1.052876	0.01408	0.00	0.39624405	0.00137984	0.00708	-0.00598	-2.1538	0.00	0.00	0.00
20.5	0.95844	1.054284	0.01408	0.00	0.39624405	0.00137984	0.00708	-0.00598	-2.1538	0.00	0.00	0.00
20.6	0.95971	1.055681	0.01397	0.00	0.3931484	0.00136906	0.00708	-0.00599	-2.1569	0.00	0.00	0.00
20.7	0.96098	1.057078	0.01397	0.00	0.3931484	0.00136906	0.00708	-0.00599	-2.1569	0.00	0.00	0.00
20.8	0.96224	1.058464	0.01386	0.00	0.39005274	0.00135828	0.00708	-0.00600	-2.1599	0.00	0.00	0.00
20.9	0.96350	1.05985	0.01386	0.00	0.39005274	0.00135828	0.00708	-0.00600	-2.1599	0.00	0.00	0.00
21.0	0.96475	1.061225	0.01375	0.00	0.38695708	0.0013475	0.00708	-0.00601	-2.1630	0.00	0.00	0.00
21.1	0.96600	1.0626	0.01375	0.00	0.38695708	0.0013475	0.00708	-0.00601	-2.1630	0.00	0.00	0.00
21.2	0.96724	1.063964	0.01364	0.00	0.38386143	0.00133672	0.00708	-0.00602	-2.1661	0.00	0.00	0.00
21.3	0.96848	1.065328	0.01364	0.00	0.38386143	0.00133672	0.00708	-0.00602	-2.1661	0.00	0.00	0.00
21.4	0.96971	1.066681	0.01353	0.00	0.38076577	0.00132594	0.00708	-0.00603	-2.1692	0.00	0.00	0.00
21.5	0.97094	1.068034	0.01353	0.00	0.38076577	0.00132594	0.00708	-0.00603	-2.1692	0.00	0.00	0.00
21.6	0.97216	1.069376	0.01342	0.00	0.37767011	0.00131516	0.00708	-0.00603	-2.1723	0.00	0.00	0.00
21.7	0.97338	1.070718	0.01342	0.00	0.37767011	0.00131516	0.00708	-0.00603	-2.1723	0.00	0.00	0.00
21.8	0.97459	1.072049	0.01331	0.00	0.37457446	0.00130438	0.00708	-0.00604	-2.1754	0.00	0.00	0.00
21.9	0.97580	1.07338	0.01331	0.00	0.37457446	0.00130438	0.00708	-0.00604	-2.1754	0.00	0.00	0.00
22.0	0.97700	1.0747	0.0132	0.00	0.3714788	0.0012936	0.00708	-0.00605	-2.1785	0.00	0.00	0.00
22.1	0.97820	1.07602	0.0132	0.00	0.3714788	0.0012936	0.00708	-0.00605	-2.1785	0.00	0.00	0.00
22.2	0.97939	1.077329	0.01309	0.00	0.36838314	0.00128282	0.00708	-0.00606	-2.1816	0.00	0.00	0.00
22.3	0.98058	1.078638	0.01309	0.00	0.36838314	0.00128282	0.00708	-0.00606	-2.1816	0.00	0.00	0.00
22.4	0.98176	1.079936	0.01298	0.00	0.36528749	0.00127204	0.00708	-0.00607	-2.1847	0.00	0.00	0.00
22.5	0.98294	1.081234	0.01298	0.00	0.36528749	0.00127204	0.00708	-0.00607	-2.1847	0.00	0.00	0.00
22.6	0.98411	1.082521	0.01287	0.00	0.36219183	0.00126126	0.00708	-0.00608	-2.1878	0.00	0.00	0.00
22.7	0.98528	1.083808	0.01287	0.00	0.36219183	0.00126126	0.00708	-0.00608	-2.1878	0.00	0.00	0.00
22.8	0.98644	1.085084	0.01276	0.00	0.35909617	0.00125048	0.00708	-0.00609	-2.1909	0.00	0.00	0.00
22.9	0.98760	1.08636	0.01276	0.00	0.35909617	0.00125048	0.00708	-0.00609	-2.1909	0.00	0.00	0.00
23.0	0.98875	1.087625	0.01265	0.00	0.35600052	0.0012397	0.00708	-0.00609	-2.1940	0.00	0.00	0.00
23.1	0.98990	1.08889	0.01265	0.00	0.35600052	0.0012397	0.00708	-0.00609	-2.1940	0.00	0.00	0.00
23.2	0.99104	1.090144	0.01254	0.00	0.35290486	0.00122892	0.00708	-0.00610	-2.1971	0.00	0.00	0.00
23.3	0.99218	1.091398	0.01254	0.00	0.35290486	0.00122892	0.00708	-0.00610	-2.1971	0.00	0.00	0.00
23.4	0.99331	1.092641	0.01243	0.00	0.3498092	0.00121814	0.00708	-0.00611	-2.2002	0.00	0.00	0.00
23.5	0.99444	1.093884	0.01243	0.00	0.3498092	0.00121814	0.00708	-0.00611	-2.2002	0.00	0.00	0.00
23.6	0.99556	1.095116	0.01232	0.00	0.34671355	0.00120736	0.00708	-0.00612	-2.2033	0.00	0.00	0.00
23.7	0.99668	1.096348	0.01232	0.00	0.34671355	0.00120736	0.00708	-0.00612	-2.2033	0.00	0.00	0.00
23.8	0.99779	1.097569	0.01221	0.00	0.34361789	0.00119658	0.00708	-0.00613	-2.2064	0.00	0.00	0.00
23.9	0.99890	1.09879	0.01221	0.00	0.34361789	0.00119658	0.00708	-0.00613	-2.2064	0.00	0.00	0.00
24.0	1.0000	1.1	0.0121	0.00	0.34052223	0.0011858	0.00708	-0.00614	-2.2095	0.00	0.00	0.00
24.1	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
24.2	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
24.3	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
24.4	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
24.5	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
24.6	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
24.7	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
24.8	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
24.9	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
25.0	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
25.1	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
25.2	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
25.3	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
25.4	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
25.5	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
25.6	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
25.7	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
25.8	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
25.9	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
26.0	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
26.1	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
26.2	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
26.3	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
26.4	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
26.5	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
26.6	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
26.7	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
26.8	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
26.9	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
27.0	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
27.1	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
27.2	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
27.3	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
27.4	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
27.5	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00
27.6	1.0000	1.1	0	0.00	0	0	0.00708	-0.00708	-2.5500	0.00	0.00	0.00

Application for Site Permit
Becker County Planning and Zoning
915 Lake Ave, Detroit Lakes, MN 56501
Phone: 218-846-7314 Fax: 218-846-7266

Website: www.co.becker.mn.us Email: zoning@co.becker.mn.us

PARCEL	
APP	SITE
YEAR	
SCANNED	

Property will be staked by
Date: _____

Please Print or Type All Information

Parcel Number (s)	Property (E911) Address _____**911 Address Needed	Legal Description
060312000	12738 Co HWY 5 Lake Park, MN 56554	22-138-43 PT GOVT LOT 1: COMM MC#25 ON W SHORE BIG CORM LK, W 575.8', SWLY 1472.67', NW 9.68 TO CTR HWY, SWLY AL CTR HWY 335.66' TO POB; SWLY AL CTR HWY 57.93', NW 133.69' TO MID CORM LK, NE AL LK 51.28', SE 118.91' TO POB.

Lake/River Name	Lake/River Class	Township Name	Section	TWP No.	Range
Middle Cormorant Lake	RD	Cormorant Township	Sec 22	Twp 138	Range 043

Property Owner	Last Name	First Name	Mailing Address	Phone
Becker County			915 Lake Avenue Detroit Lakes, MN 56501	(218) 846-7200

Contractor Name Lic #

Proposed Project (Check those that apply)

___ New Dwelling ___ Addition to Dwelling ___ Replacement Dwelling* ___ Mobile/Manfac. Home
___ Attached Garage ___ Detached Garage ___ Storage Structure ___ Addition to Non-dwelling
___ Stairway ___ Deck ___ Recreational Unit ___ Water Oriented Structure
X Fence X Other Picnic Shelter ___ Non Conforming Replacement (identify) _____
*Existing Dwelling to be removed prior to _____

Onsite Water Supply ( ) Deep Well ( ) Shallow Well Well Depth _____
MN Rules Chapter 4725 (MN well code) requires a 3' minimum structure setback to well
If New/Proposed: Proposed Septic Contractor:_____ Contractor Phone Number:_____
Onsite Sewage Treatment System
Type of System _____ Date of Installation _____ Last Date Certified _____
Must have current certificate of compliance on septic system prior to issuance of a permit

Lot Information **Shoreland**(with in 1000ft) X ( ) **Riparian**(on water) ( ) **Non Riparian** **Non Shoreland** ___

Lot Area 6,224 sq ft or _____ acres Water Frontage 51.28 ft Bluff ( ) Yes (X) No
Impervious coverage refers to anything water cannot pass through. Structures, areas covered by a roof, concrete, asphalt, Class 5, sidewalks, patio pavers, etc. should all be included in this calculation. Decks should be included in this calculation if they have plastic underlayment or impervious surface underneath. Anytime you exceed 15% lot coverage a stormwater management plan and/or mitigation is required. ***INCLUDE PROPOSED STRUCTURES IN CALCULATION.***

Please Note: *Unless otherwise provided, a minimum of a 12 foot wide driveway from the nearest road right of way to the proposed structure must be included in both your plan and impervious surface calculation.*

Impervious Surface On property	Dimensions	Sq. Footage	Impervious Surface On property	Dimensions	Sq. Footage
Example: Patio	10 x 12	120			
Sidewalk	23 x 3.5	81			
Picnic Shelter	16 x 20	320			
			Total Impervious Material		

Impervious Lot Coverage 401 ÷ 6,224 = .0644 x 100 = 6.44 %
Total Impervious Lot Area Impervious Coverage Percentage

Topographical Alteration/Earth moving:

( ) None ( ) 10 cubic yards or less (X)11– 50 cubic yards ( ) over 50 cubic yards
Project over 50 cubic yards require a silt fence or other means of stormwater management.

Characteristics of Proposed Dwelling/Dwelling Additions/Attached Garage/Decks **Cost of Project**

( )Dwelling _____ ft by _____ ft

$_____

Outside Dimension ( )Deck/Patio _____ ft x _____ ft ( )Addition to existing _____ ft x _____ ft

Setback to Side Lot Lines __10__ ft & Rear Lot Line __NA_ ft

Setback to Road Right of Way _____40_____ ft

Setback to Bluff ____NA_____

Type of road **Twshp/Public / Co Hwy / State Hwy (Circle)**

Setback to Wetland ___NA_____

Is wetland protected ( ) Yes ( ) No

Setback to OHW (straight horizontal distance) _____30____

Elevation above OHW (Straight vertical distance) _____

Setback to septic tank _____NA_____

Setback to drainfield _____

Total No. Bedrooms _____NA_____

Maximum height proposed _____ # of Stories _____

Roof Change ( ) Yes (X) No

Basement ( ) Yes ( ) No Walkout Basement ( ) Yes ( ) No

Characteristics of Proposed Non Dwelling/Non Dwelling Additions/Detached Garages/Storage Sheds

( ) Garage_____ ft by ____ ft ( ) Storage Shed _____ ft x _____ ft (X)Fence 78 ft long x 6ft high (X)other : Picnic Shelter 16x20 ft

Outside Dimension ( ) Addition to existing structure _____ ft x _____ ft ( ) Fence _____ ft x _____ ft

Cost of Project

Setback to Side Lot Lines __10_ ft & Rear Lot Line:NA ft

Setback to Road Right of Way ____40_____ ft

$10,000

Setback to Bluff : NA

Type of road **Twshp/Public / Co Hwy / State Hwy (Circle)**

Setback to Wetland : NA

Is wetland protected ( ) Yes ( ) No

Setback to OHW (straight horizontal distance) 30 ft

Elevation above OHW (Straight vertical distance) ___3ft_____

Setback to septic tank: NA

Setback to drainfield ___NA_____

Roof Change ( ) Yes (X) No

Maximum height proposed ____12_____ # of Stories ___1____

Bathroom proposed ( ) Yes (X) No

Sleeping Quarters proposed ( ) Yes (X) No

***Garages and storage sheds cannot contain amenities for independent human habitation**

Characteristics of Proposed Water Oriented Structure* **Cost of Project $** _____

( ) Deck ( ) Boathouse ( ) Screen Porch ( ) Gazebo ( ) Storage Structure

Outside Dimension _____ ft by _____ ft

Sq ft _____

Setback to Side Lot Line _____ ft & _____ ft

Setback to Bluff _____

Setback to OHW (straight horizontal distance) _____

Elevation above OHW (Straight vertical distance) _____

Setback to septic tank _____

Setback to drainfield _____

Maximum height proposed _____

***Sleeping facilities or water supplies are not permitted in these structures**

THIS IS A SITE PERMIT ONLY AND DOES NOT CONSTITUTE A BUILDING PERMIT
AS SET FORTH IN MN STATE STATUTES.

I hereby certify with my signature that all data contained herein as well as all supporting data are true and correct to the best of my knowledge. I also understand that, once issued, a permit is valid for a period of one (1) year from the date of issuance and that Planning and Zoning Staff may visit my property to ensure compliance. If my property is located within the shoreland district, I understand that it is my responsibility to inform the Planning & Zoning Office once the building footings have been constructed. A Site Permit may be revoked at any time upon violation of said Ordinances and approved setbacks. Any changes to this site permit results in nullification of this permit and a new permit will have to be obtained.

_____ 2-13-2018

Signature **Date**

SKETCH OF PROPERTY

PARCEL	
APP	SITE
YEAR	

1. **Please sketch all impervious coverage on your property; include dimensions.**
2. **Sketch roadways adjacent to property** - Include driveway location.
3. **Indicate setback distances including distance to: Side Lot Line, Rear Lot Line, ROW/Centerline, Septic tank and Drainfield.**
4. **If you will be exceeding 15% impervious surface coverage, include a copy of your stormwater management plan. This applies to ANY lot that exceeds 15% coverage.**
5. **If proposed project is a detached garage/storage shed that *will exceed 1 story*, include detailed design.**
6. **Indicate where erosion control measures will be implemented and indicate storm water drainage pattern and how it will be maintained on the property.**

See

cormorant swimming

Beach Plans in file

Remember EROSION CONTROL!
Please use best management practices and/or silt fence to control erosion on all projects.

~ LAND ALTERATION PERMIT ~

BECKER COUNTY PLANNING & ZONING

915 LAKE AVENUE, DETROIT LAKES, MN 56501
PHONE (218) 846-7314 - FAX (218) 846-7266

PARCEL	
APP	Land Alt
YEAR	
SCANNED	

PARCEL NUMBER 067019001,060312000 **PROJECT ADDRESS.** 12738 Co HWY 5 Lake Park, MN 56554

DIRECTIONS TO PROPERTY: From US Highway 10 go South on HWY 5 9.2 miles . Property is on west side of road at 12738 Co HWY 5

LEGAL DESCRIPTION 22-138-43 PT GOVT LOT 1: COMM MC #25 ON WLY SHORE BIG CORM LK & N LN SEC 22 TH W 575.80', SW 1472.67', NW 9.68' TO CTR LN CSAH #5 & POB; SWLY 335.66', NWLY 117.91' TO MIDDLE CORM LK, NELY 271.78' AL LK, SELY 92.34' TO POB AKA CORMORANT SWIM BEACH

LAKE/WETLAND/RIVER NAME	LK/WETL/RIV CLASS	SECTION	TWP	RANGE	TOWNSHIP NAME
Middle Cormorant	Lake	RD	Section 22 Township 138	Range 043	Cormorant

PROPERTY OWNER	ADDRESS	PHONE NO
Becker County	915 Lake Avenue Detroit Lakes, MN 56501	(218) 846-7200

CONTRACTOR	LICENSE NO	PHONE NO
Olson Construction	237310	(218) 238-5566

Type of Project

( ) Vegetation Removal
( ) Fill Only
( ) Grading Only
(X) Grading & Filling
( ) Other (specify)

Project Purpose

( ) Clear Land
( ) Road or Driveway
( ) Elevate Building Site
( ) Improve Lawn
(X) Other (specify)

Shoreline Restoration, Stormwater Mitigation

Type of Erosion Control

(X) sod ( ) stake-sod
( ) seed only (X) seed & mulch
( ) mulch only (X) other Coir Logs

* See attached SWPP for other details

Project Scope

Project Start Date: 4/15/2018* (Weather Dependent)
Project Completion Date: 5/15/2018

Project is adjacent to (X) Lake ( ) Stream ( ) non shoreland
Name of water body: Middle Cormorant
Distance work will be from Ordinary High Water Mark:
0 ft - Work will begin at OHWL and extend landward

Alterations:

Area to be cut/excavated 22,300 sft (Square footage) 0.5 ft (Average Depth)
Area to be filled/leveled 22,300 sft (Square footage) 0.5 ft (Average Depth)
Type of Soils and/or fill material: Granular Fill, Topsoil, Sand

Total Cubic Yards of Earthmoving Requested: 413

Brief description of the work to be done: Work will commence with the removal of existing class 5 and concrete surfaces, stabilization and re-grading of existing shoreline and excavation of two raingardens/ infiltration basins. Coir Logs will be installed at the OHWL to provide toe protection and native vegetation will be re-introduced in the areas noted in plan sheets. Curb, gutter and bituminous will be installed to eliminate on site erosion and direct runoff to infiltration basins. Remaining areas will be planted to Sod.

RECEIVED
FEB 13 2018
ZONING

To complete this application, a detailed site plan must be attached.
The site plan must include the following information:

PARCEL	067019001,060312000
APP	Land Alt
YEAR	2018

1. Size of the property, showing the location of the lot lines;
2. Area that the work is to be done (width and length of project);
3. Final slopes of project;
4. Drainage plan showing direction of drainage and how the drainage will be contained;
5. Distance the project will be from lake; river; stream; property lines; wetlands and structures.

I hereby certify with my signature that all data contained herein as well as all supporting data are true and correct to the best of my knowledge. I also understand that, once issued, the permit will be valid for a period of six (6) months. I also understand that bare ground shall be covered temporarily with mulches or similar materials and permanent vegetation cover shall be established as soon as excavation is completed. I also understand that I am responsible for securing any other local, state, or federal permits that may be required, including but not limited to watershed districts, MN Department of Natural Resources, Soil and Water Conservation, MN Pollution Control Agency or US Army Corps of Engineers.

_____ 2-13-2018
Signature Date

Additional notes: _____

_____

_____

Application Fee: _____ + Fines _____ + Total Fees _____

Application is hereby <u>GRANTED</u> in accordance with the application and supporting information by order of:

_____ as of this date _____

Application is hereby <u>DENIED</u> based on the fact that _____

by order of: _____ as of this date _____

Receipt Number _____ **Date Paid** _____

Additional Receipt Number _____ **Date of Additional Receipt** _____

Date of Final Inspection: _____

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, [m]erchantability, or fitness for [a]particular purpose.

Becker County

1:724

Date: 11/21/2017

This map is not a substitute for accurate field surveys or for locating actual property lines and any adjacent features.

Becker County

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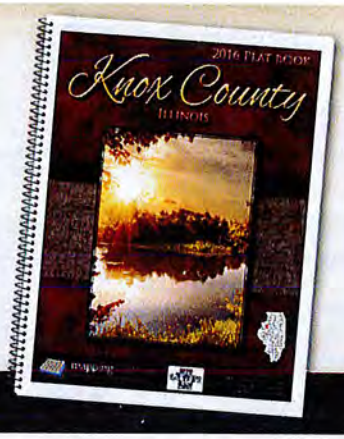

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Cormorant

Township 138N - Range 43W

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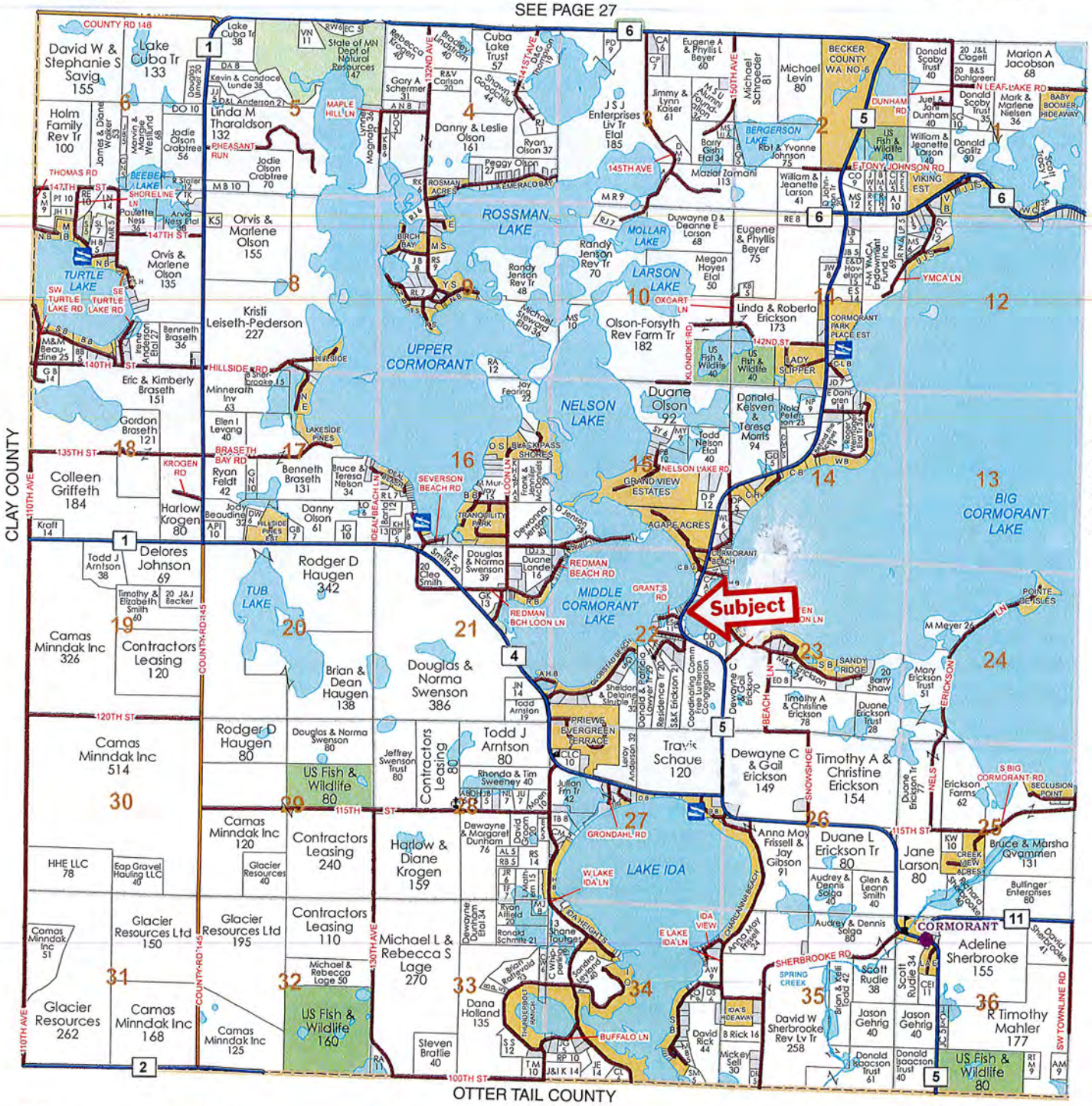

COUNTY OF BECKER

Planning and Zoning

915 Lake Ave, Detroit Lakes, MN 56501
Phone: 218-846-7314 ~ Fax: 218-846-7266

PLANNING COMMISSION
NOTICE OF PUBLIC HEARING
HEARING DATE AND LOCATION
Tuesday, April 10, 2018 @ 7:00 P.M.
3rd Floor Jury Assembly Room New Addition-Becker County Courthouse
Detroit Lakes, MN 56501

APPLICANT: Lonnie & Patricia Nelson
3792 Polk St. S.
Fargo, ND 58104

Project Location: 18722 Cummings Rd., Detroit Lakes

APPLICATION AND DESCRIPTION OF PROJECT:
Request a Conditional Use Permit to rent out heated bays in storage building.

LEGAL LAND DESCRIPTION: Tax ID number: **08.0717.000** Section 21 Township 139 Range 041 Subdivision Name BRANDY LK EST 1ST Block 001 Subdivision Cd 08006 LOT 7 REF: E 08.0032.911

Replies/Comments: Interested parties are invited to submit to the Becker County Department of Planning, Zoning, and Land Use, written facts, arguments or objectives before the scheduled date of the Hearing. These statements should bear upon the suitability of the location and the adequacy of the Project and should suggest any appropriate changes believed to be desirable. Replies may be addressed to:

PLANNING AND ZONING DEPARTMENT
915 Lake Avenue
Detroit Lakes, MN. 56501

FAX Number 218-846-7266
EMAIL: zoning@co.becker.mn.us

If you have questions about the Project, feel free to call 218-846-7314.

Jurisdiction: This Project comes under the Regulatory Jurisdiction of the Becker County Zoning Laws.

Regulatory Authority: This Application will be reviewed according to the provisions of the Becker County Zoning Ordinance. The decision whether to issue a Permit will be based on an evaluation of the probable impact including cumulative impacts, of the proposed activity. That decision will reflect the concern for both protection and utilization of important resources. All factors, which may be relevant to the proposal, will be considered including the cumulative effects: Land Use, Shoreline Protection, Water Supply and Conservation, Safety, Economics, in General, the Needs and Welfare of the People.

** Weather conditions may change the Hearing date and time. If bad weather occurs, please listen to the local Detroit Lakes Radio Stations or contact the Zoning Office, by 4:30 PM on day of Hearing, for possible rescheduling of the Hearing.

~ CONDITIONAL USE APPLICATION ~

BECKER COUNTY PLANNING & ZONING

915 LAKE AVENUE, DETROIT LAKES, MN 56501
PHONE (218) 846-7314 - FAX (218) 846-7266

PARCEL	
APP	CUP
YEAR	
SCANNED	

PROPERTY OWNER INFORMATION (as it appears on tax statement, purchase agreement or deed)

First name(s): Lonnie & Patricia Last name: Nelson

Mailing Address: 3792 Polk St. So City, State, Zip Fargo, ND 58104

Phone Number(s): 701-866-5309 Project Address: 18722 Cummings Road D.L.

Parcel number(s) of property: 08.0717.000 Sect - Twp - Range: 139 41

Township Name: Detroit Legal Description: Lot 6, Block 1, Brandy Lakes First Addition, Township 139, Range 41

Parcel #

REASON FOR CONDITIONAL USE REQUEST: Potential Rental of Excess Heated Bays in Storage Building.

The information provided for this document is truthful and accurate to the best of my knowledge. I understand that this statement is null and void if any of the above information is not supplied or is inaccurate.

Lonnie D. Nelson Patricia J. Nelson — SIGNATURE OF APPLICANT

~~JAN 24, 2018~~ 2-12-2018 — DATE

OTHER INFORMATION NEEDED TO COMPLETE THE APPLICATION:

1. A copy of the deed from the Recorder's Office;
2. Completed Site Application with sketch showing all setbacks, platted or surveyed dimensions of the lot and all existing and proposed buildings; parking area and all other materials deemed necessary.
3. Non-refundable filing fee of $326.00. If in Cormorant Township add $25.00 surcharge to the filing fee ($351.00). **Make check payable to Becker County Zoning.**
4. **Is the conditional use permit request after the fact? [ ] Yes [ ] No**
   If yes, after the fact application fee is an additional $600.00.

****

Office Use Only

This application is hereby (accepted) or (rejected) as presented.

SIGNATURE – ZONING ADMINISTRATOR — 2-23-2018 DATE

RECEIVED
FEB 13 2018
ZONING

PARCEL	
APP	CUP
YEAR	

BUSINESS PLAN

Name of Business: N/A

Owners of Business: N/A

Type of Business: Retail Sales Service (Other)

Type of Merchandise: NONE

Type of Service: HEATED SHOP SPACE

Hours of Operation: N/A

Number of Employees: 0

Off – street Parking Plan: 42,992 SQ FT LOT. ADEQUATE PARKING

Size of Structure to be used for Business: 2 SEPARATE 20'x40' BAYS IN 40x120 BLDG

New Structure: _____ Existing Structure: YES

Signage Plan: NO SIGNS

Exterior Lighting Plan: 24 HOUR SECURITY LIGHTS ABOVE OVERHEAD DOORS

Environmental Hazards: NONE

Other Comments: WE ARE EXTREMELY FUSSY AND NEAT PEOPLE. THIS BUILDING IS A TOP QUALITY FOLTZ BUILDING. WHEN SPRING ARRIVES WE WILL COMPLETE THE LANDSCAPING WITH ATTRACTIVE SHRUBBERY AND PLANTS. THE LOT WILL BE MAINTAINED REGULARLY AND KEPT ATTRACTIVE. NO JUNK OR UNATTRACTIVE OUTSIDE STORAGE WILL BE ALLOWED! WE FEEL THAT THIS IS A NICE WORKING CLASS NEIGHBORHOOD AND WE WILL DO OUR BEST TO BE GOOD NEIGHBORS. WE HAVE BEEN COMPLIMENTED MANY TIMES OVER THE PAST 3 MONTHS ON THIS STRUCTURE DURING CONSTRUCTION. THIS WAS PREVIOUSLY AN UNKEPT VACANT LOT

Please answer the following questions as they relate to your specific CUP request:

1. **Effect on surrounding property.** That the conditional use will not harm the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminish or impair property values within the immediate vicinity.

This will have No Negative impacts. The Structure and Lot will be well maintained As we will also be using 2/3 of The Building. We will Be There Regularly

2. **Effect on orderly, consistent development.** That establishing the conditional use will not impede the normal, orderly development and improvement of surrounding vacant property for uses predominant in the area.

There are no vacant lots immediately Surrounding This Property

3. **Adequate facilities.** That adequate utilities, access roads, drainage and other necessary facilities have been or are being provided.

All facilities and utilities are in

4. **Adequate parking.** That adequate measures have been or will be taken to provide sufficient off-street parking and loading space to serve the proposed use.

This lot is 42,992 sq ft + The Building is 4800 sf That leaves Adequate Area for Parking

5. **Not a nuisance.** That adequate measures have been or will be taken to prevent or control offensive odor, fumes, dust, noise and vibration, so none of these will constitute a nuisance, and to control lighted signs and other lights so that no disturbance to neighboring properties will result.

No Nuisance issues. Only lighting will be 24 hour L.E.D Security Lights Above The Overhead Doors

6. **Additional criteria for shoreland areas.** In Shoreland areas, it shall be found that adequate measures have been or will be taken to assure that:

   a. **Pollution.** Soil erosion or other possible pollution of public waters will be prevented, both during and after construction:

is in a Shoreline Area. Going West, There is a minimum of 20' Change upward in Elevation There for No Chance of draining into Lake

   b. **View from public waters.** That the visibility of structures and other facilities as viewed from public waters will be limited;

No View from Public Water

   c. **Adequate utilities.** That the site is adequate for water supply and on-site sewage treatment; and

This lot is 42,992 sq ft in surface area and is adequate for a well or Septic System if ever Needed

   d. **Watercraft.** That the types, uses, and number of watercrafts that the project will generate can be safely accommodated.

N/A

January 24, 2018

Becker County Planning Commission

Detroit Lakes, Minnesota

I am applying for a Conditional Use permit for my new building at 18722 Cummings Road in the Brandy Lakes Subdivision of Becker County. The reason for this application is that we would like to possibly rent out at least one, or maybe both of the heated work bays because now we do not think we will require any heated space for our own personal use.

In late September 2017, I applied for a building permit with Becker County, and on October 2, 2017 I received the Permit # 080717000 (copy attached). We adhered to all requirements and setbacks, and exceeded all County required setbacks by at least 10 ft to assure that we were in compliance.

Feldt Excavation did the earth work about a week after the permit was issued and FOLTZ began construction shortly thereafter. We used all local contractors, Foltz, Feldt Excavation, and Ace Electric for this project.

This is a 40' X 120 ' FOLTZ building with partitions installed for one 40' x 80' personal cold storage area (70% + - of the total building area), and two separate 20' x 40' heated bays, (15% + - of the building area each).

When I purchased this property, I specifically asked Mike Ring of Counsellor Realty in Detroit Lakes if there were any restrictions on property use on this lot. He called the County Recorders office and they informed him that there were none on record, so we proceeded with the purchase. Mr. Ring called and asked again just before the closing and they gave him that same information.

I am filing this early but would like to be scheduled for the meeting on April 10, 2018 because it is now too late to file for the February 13 meeting, and I will be out of the country on the dates of the March 13 meeting and not returning to the US until the 15th of March. I would like to be at the meting in person in case there are any unanswered questions on the application form.

Thank You

Lonnie Nelson

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.

Nelson

1:2,995

Date: 2/15/2018

This map is not a substitute for accurate field surveys or for locating actual property lines and any adjacent features.

Becker County

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For all your land survey needs, contact our friendly staff at:
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Meadowland Surveying, Inc. is a local family owned company and has performed over 10,000 surveys in the lakes area. Our office routinely works with attorneys, architects, engineers and governmental agencies to ensure successful project completion for our clients.

EXPERIENCE MATTERS!

Detroit Township 139N - Range 41W

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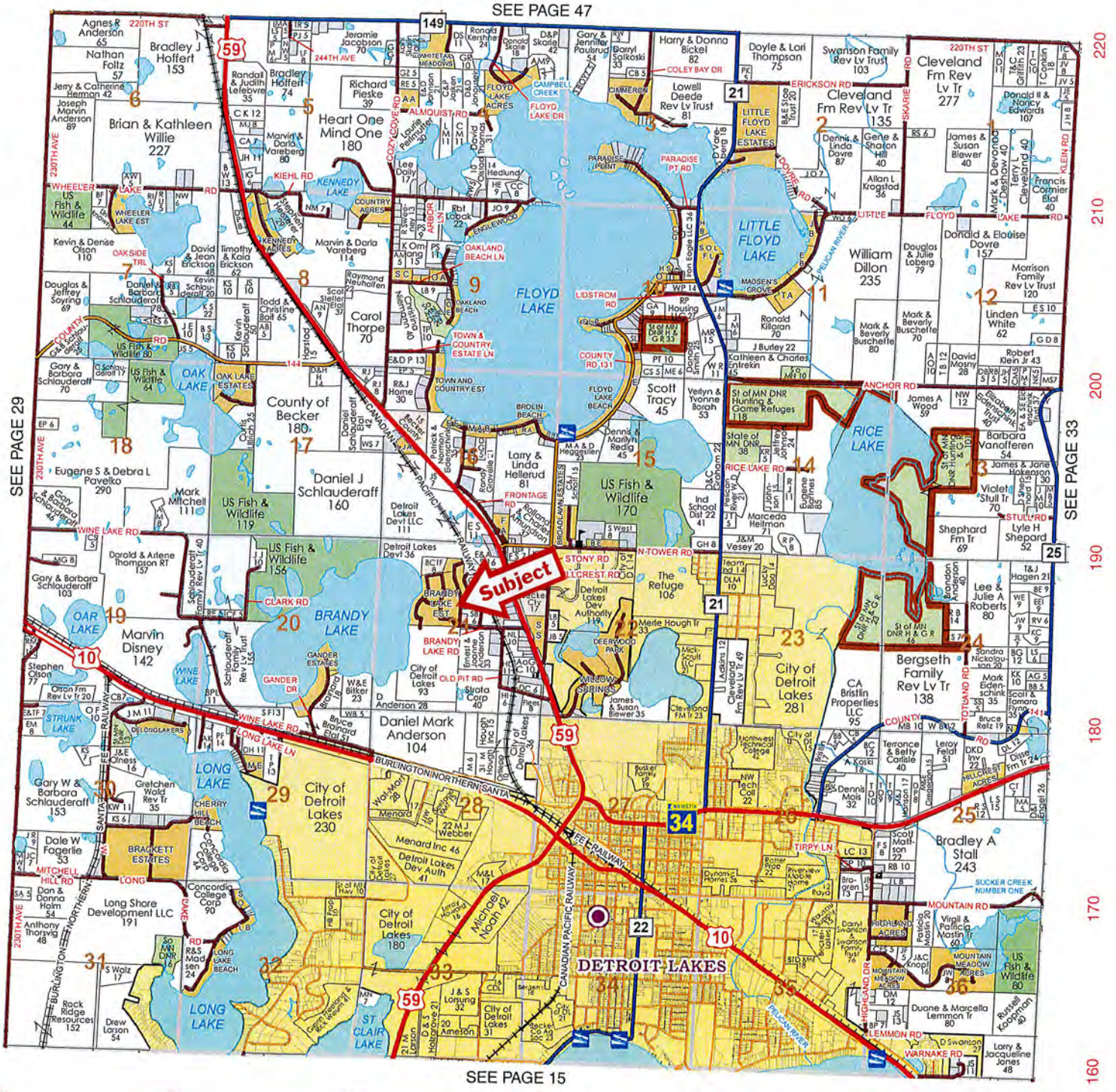
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Site Permit

BECKER COUNTY ZONING

915 LAKE AVE
DETROIT LAKES, MN 56501
(218) 846-7314

COPY

Last Name	Nelson		
First Name	Lonnie & Patricia		
Phone #	(701) 866-5309		
Mailing Address	3792 Polk St. S.		
Mailing_City:	Fargo		
Mailing State	ND	Parcel #	080717000
Zip	58104	Project Address	18722 Cummings Rd.. Detroit Lakes
Contractor License		Sec-Twn-Rge	21-139-41
Con Phone #		Township Name	Detroit
Yr_of_Septic:		Legal Desc	BRANDY LK EST 1ST Lot 006 Block 001

Footing Inspection Needed Yes-Please schedule insp

House/Cabin		Deck/Patio	
House Dimensions		Deck/Patio Dimensions	
Manufactured/Modular/Mobile:		Other:	
Man Dimensions		Other Dimensions	
Attached Garage		Lot Width	
Att Garage Dimensions		Lot Depth	
Detached_Garage_Accessory:		Height Above H2O	
Det Garage/Accessory Dim		Height to RD	
Storage/Pole Shed	New	Land Alteration	11-50 Cubic yards
Shed Dimensions	40x120	Lot Area 42.992.00	Sq Ft/Acres: Square Feet

Total Impervious	5888	Type of Roadway	Twn Rd ROW
% of Lot Covered	13.696	Distance from Roadway	53
Setback to Lake/River:	900+	Septic Tank Setback:	
Setback to Pond/Wetland		Drainfield Setback:	
Setback from Bluff:		Shoreland 1000/300/50	Yes Non-Riparian
Side Lot	20	Mitigation/Variance?	No
Rear Lot	80	Mitigation Receipt #	
		Lake/Wetland/River Name	Brandy
		Lake/Wetland/River Class	NE

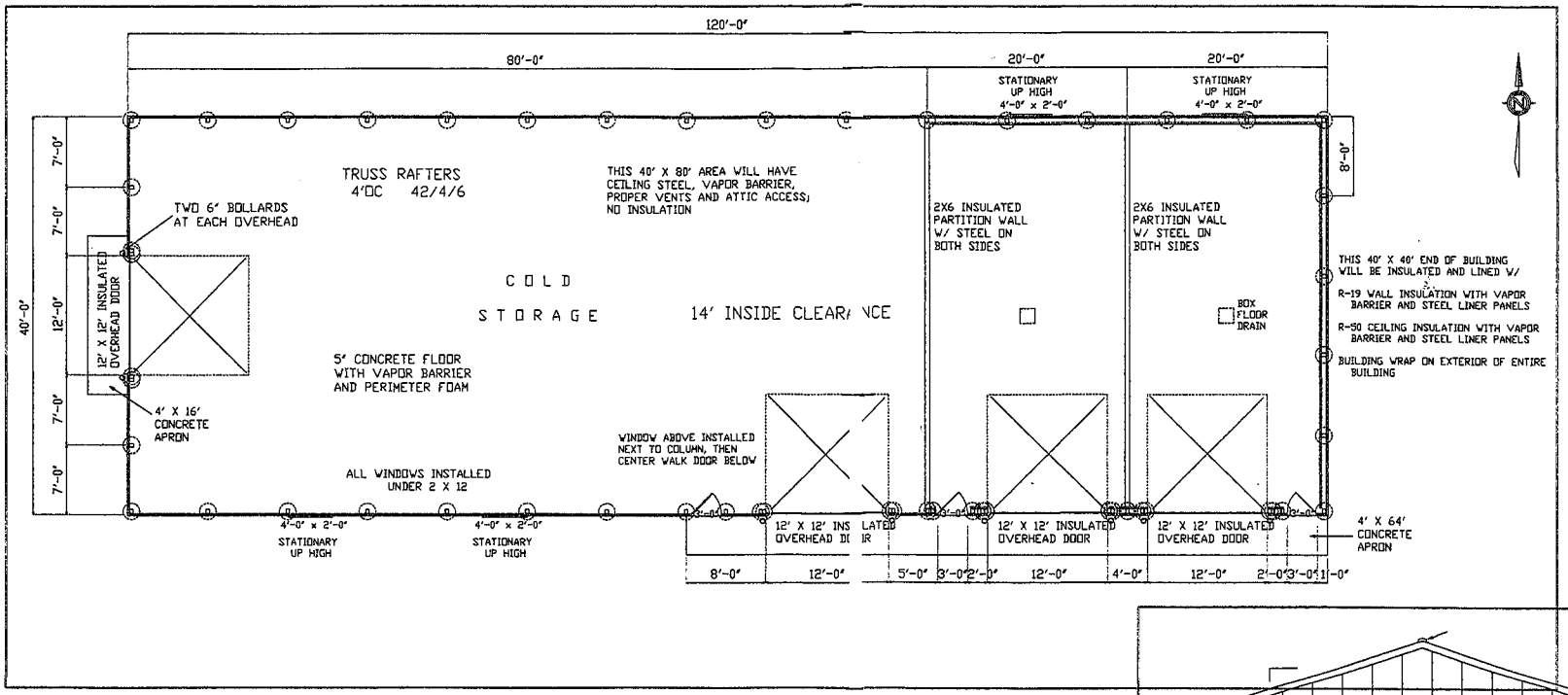
Date Approved	10/02/17	Receipt #	106731-661733
Total Fees	$486.00	Additional Receipt #	
Date Pd	10/02/17	Additional Date Pd	

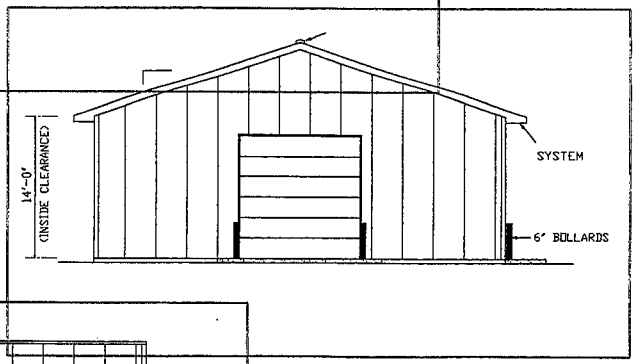
Permit Notes ***Must maintain all setbacks.

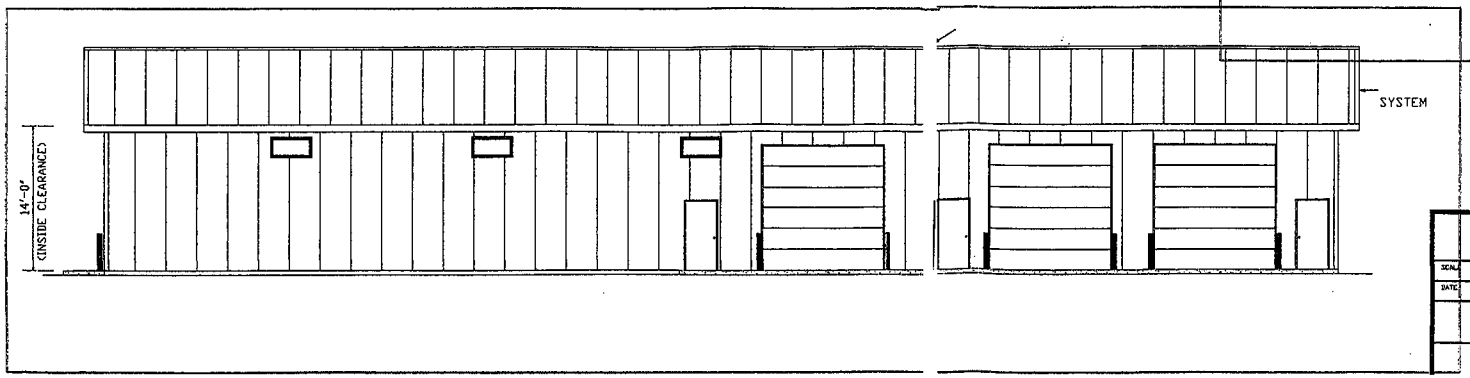
SIGNATURE:

PERMIT MUST BE POSTED AT JOB SITE!

PROJECT MUST BE COMPLETED WITHIN 1 YEAR FROM DATE PAID! PERMIT ALSO EXPIRES ONE YEAR FROM DATE







SCALE	AS SHOWN	APPROVED	DRAWN BY JE
DATE	9/26/17		REVISED

FOLTZ BUILDINGS, INC
DETROIT LAKES, MN

DRAWING NUMBER 1 OF 1

643041

BECKER COUNTY RECORDER
STATE OF MINNESOTA
Document No. 643041
June 20, 2017 at 11:11 AM
I hereby certify that the within instrument was recorded in this office.
Patricia Swenson, County Recorder
By _SKS_____ Deputy

CERTIFICATE OF REAL ESTATE VALUE FILED # 014500
No delinquent taxes and transfer entered
this 20th day of June, 2017
Mary Ette Hendrickson
Becker County Auditor/Treasurer
By _____ Deputy

5-M WARRANTY DEED
Individual(s) to Joint Tenants

STATE DEED TAX DUE HEREON: $ 313.50 eCRV # 614222

Date: 6-16-17 Parcel # 08.0717.000 and 08.0718.000

FOR VALUABLE CONSIDERATION, **Matthew Aura**, a single person, Grantor(s), hereby convey(s) and warrant(s) to **Lonnie D. Nelson and Patricia J. Nelson**, Grantees, as joint tenants, real property in Becker County, Minnesota, described as follows:

Lots Numbered Six (6) and Seven (7), Block Numbered One (1), BRANDY LAKE ESTATES FIRST ADDITION, according to the certified Plat thereof on file and of record in the office of the County Recorder in and for Becker County, Minnesota.

together with all hereditaments and appurtenances belonging thereto, subject to the following exceptions:

Covenants, Easements and Restrictions of Record, if any.

Check Box if Applicable:
- ☒ The Seller certifies that the seller does not know of any wells on the described real property.
- ☐ A well disclosure certificate accompanies this document.
- ☐ I am familiar with the property described in this instrument and I certify that the status and number of wells on the described real property have not changed since the last previously filed well disclosure certificate.

BECKER COUNTY DEED TAX
AMT. PD. $ 313.50
Receipt # 1538516
Becker County Auditor/Treasurer

chg
paid
well

BCTS 17.0235

5-M WARRANTY DEED
Individual(s) to Joint Tenants

Matthew Aura

STATE OF MINNESOTA)
)ss.
COUNTY OF BECKER)

The foregoing instrument was acknowledged before me on this 16th day of June, 2017, by Matthew Aura, a single person, Grantor(s).

NOTARIAL STAMP OR SEAL (OR OTHER TITLE OR RANK)

STEPHANIE A. QUALLEY
NOTARY PUBLIC
MINNESOTA
My Commission Expires Jan. 31, 2020

SIGNATURE OF PERSON TAKING ACKNOWLEDGEMENT

Check here if part or all of the land is Registered (Torrens) ☐

Tax Statements for the real property described in this instrument should be sent to (include name and address of Grantee):

Lonnie D. Nelson
Patricia J. Nelson
3792 Polk ST So
Fargo, ND 58104

THIS INSTRUMENT WAS DRAFTED BY (NAME AND ADDRESS)

Becker County Title Services
828 Minnesota Avenue
Detroit Lakes, MN 56501
Order No.: DL17-0235saq/

COUNTY OF BECKER

Planning and Zoning

915 Lake Ave, Detroit Lakes, MN 56501

Phone: 218-846-7314 ~ Fax: 218-846-7266

PLANNING COMMISSION
NOTICE OF PUBLIC HEARING

HEARING DATE AND LOCATION

Tuesday, April 10, 2018 @ 7:00 P.M.

3rd Floor Jury Assembly Room New Addition-Becker County Courthouse

Detroit Lakes, MN 56501

APPLICANT: Rodger & Rhonda Geddes
37468 Bucks Trail
Waubun, MN 56589

Project Location: 37468 Bucks Trl., Waubun, MN

APPLICATION AND DESCRIPTION OF PROJECT:
Request a Change of Zone from Agricultural to Residential.

LEGAL LAND DESCRIPTION: Tax ID number: **09.0106.004** Section 13 Township 142 Range 039 PT GOVT LOT 4: COMM E QTR COR SEC 13, W 2652.37', S 1285.19' TO RD,WLY AL RD 61.13', SW 281.81' TO POB; NE 281.81', NWLY AL RD 575.32', WLY 222.09 SLY 403.28' TO BIG ELBOW LK, S AL LK 498.06', NELY 349.34' TO POB. TRACT G.

Replies/Comments: Interested parties are invited to submit to the Becker County Department of Planning, Zoning, and Land Use, written facts, arguments or objectives before the scheduled date of the Hearing. These statements should bear upon the suitability of the location and the adequacy of the Project and should suggest any appropriate changes believed to be desirable. Replies may be addressed to:

PLANNING AND ZONING DEPARTMENT
915 Lake Avenue
Detroit Lakes, MN. 56501

FAX Number 218-846-7266
EMAIL: zoning@co.becker.mn.us

If you have questions about the Project, feel free to call 218-846-7314.

Jurisdiction: This Project comes under the Regulatory Jurisdiction of the Becker County Zoning Laws.

Regulatory Authority: This Application will be reviewed according to the provisions of the Becker County Zoning Ordinance. The decision whether to issue a Permit will be based on an evaluation of the probable impact including cumulative impacts, of the proposed activity. That decision will reflect the concern for both protection and utilization of important resources. All factors, which may be relevant to the proposal, will be considered including the cumulative effects: Land Use, Shoreline Protection, Water Supply and Conservation, Safety, Economics, in General, the Needs and Welfare of the People.

** Weather conditions may change the Hearing date and time. If bad weather occurs, please listen to the local Detroit Lakes Radio Stations or contact the Zoning Office, by 4:30 PM on day of Hearing, for possible rescheduling of the Hearing.

PARCEL	
APP	ZONE / SURVEY
YEAR	
SCANNED	

SUBDIVISION / ZONE CHANGE
BECKER COUNTY
PLANNING & ZONING

915 LAKE AVENUE, DETROIT LAKES, MN 56501
PHONE (218) 846-7314 - FAX (218) 846-7266

Application for: X Zone Change (Complete Section 1) ___X___ Certificate of Survey (Complete Section 2) _____ Preliminary Plat (Complete Section 3)

Applicant's Name: Rodger Geddes

Applicant's Address: 37468 Bucks Trail
Waubun, MN 56589

Telephone(s): 218-556-3927 **Date of Application:** _____

Signature of Applicant: Rodger Geddes

Parcel ID Number: 09.0106.004 **Project Address:** Same as applicant

Legal Description of Project: See attached

SECTION 1

*Zone Change For Existing Parcel Number 09.0106.004
Current Zoning AG Requested Zoning RESIDENTIAL
Is the change within 2 miles of any city limits? NO

SECTION 2

*Certificate Of Survey: Number of Lots 2
Shoreland (within 1000 ft of lake) X Nonshoreland _____
Current Zoning of property ~~Residential~~ AG
Is a change of zone required? ✓ yes _____ no
If yes, change from AG Zone to RES. Zone.
Total acreage of parcel to be subdivided 6.7
Is the change within 2 miles of any city limits? No
**Include a copy of the purchase agreement if applicant is not the owner of the property.

RECEIVED
MAR 09 2018

SECTION 3

*For Preliminary Plat:
Number of Lots _____
Name of Subdivision _____
Name of Proposed Roads _____
Shoreland (within 1000 ft of lake) _____ Non-shoreland _____
Current Zoning of property _____
Is a change of zone required? _____ yes _____ no
If yes, change from _____ Zone to _____ Zone.
Total acreage of parcel to be subdivided _____
Is the change within 2 miles of any city limits? _____
**Include a copy of the purchase agreement if applicant is not the property owner.

Date Received 3/9/18 Date Accepted 3-13-18 Authorized Signature _____
Application Fee 75.00 (COS) Notice Fee Recording Fee _ Date Paid _____
_____ Receipt Number _____

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.

GEDDES

1:3,255

Date: 3/9/2018

This map is not a substitute for accurate field surveys or for locating actual property lines and any adjacent features.

Becker County

FORESTRY • INDUSTRY • AGRICULTURE • TOURISM

Mobile, on-line, paperless or in person!

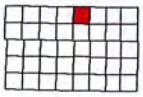
Need to make a loan payment in the middle of the night? Want to transfer funds first thing in the morning from your phone? Like to download bank statements into your checking software? Need to check account balances anywhere - anytime? Pop in for cash at the ATM?

and whenever it is convenient for you!

First NATIONAL Bank

FDIC www.mahnomenbank.com Toll Free: 877-935-5251 24-Hour TeleBanc: 1-800-933-5814

103 North Main Street - Mahnomen MN - 218-935-5251 and 205 Main Avenue West - Twin Valley MN - 218-584-5161

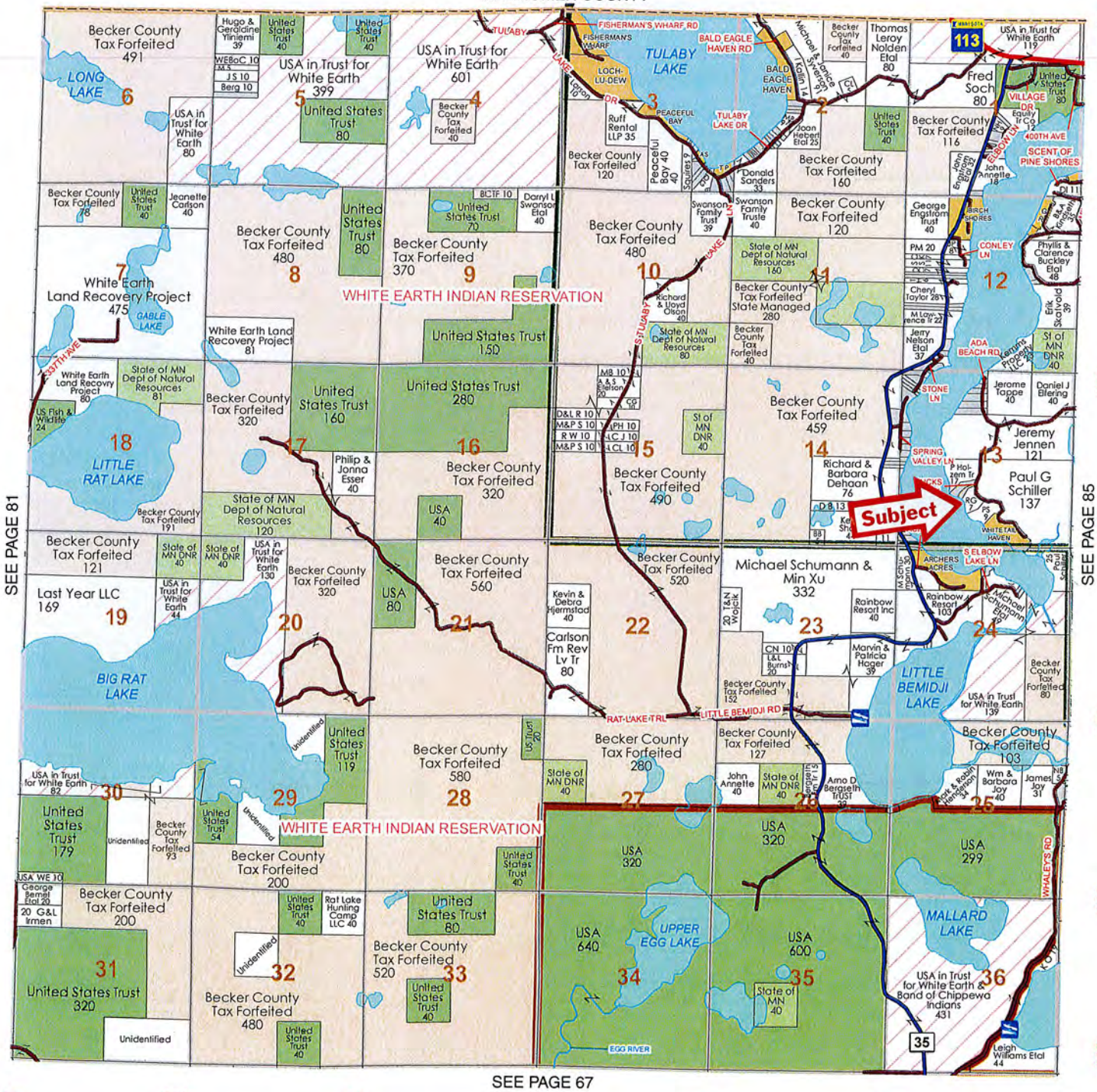


Eagle View

Township 142N - Range 39W

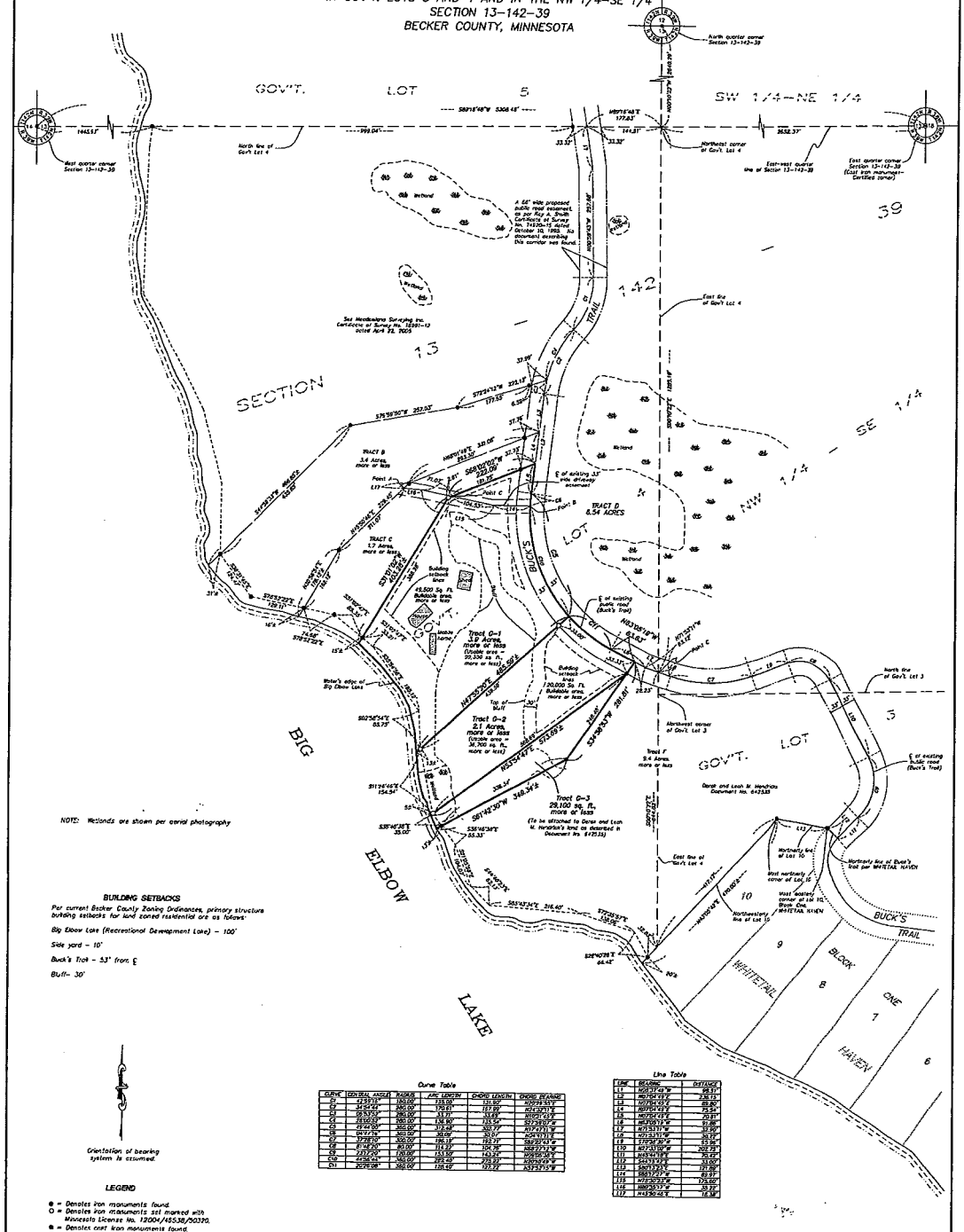
Copyright © 2016 Mapping Solutions

MAHNOMEN COUNTY



CERTIFICATE OF SURVEY

IN GOV'T. LOTS 3 AND 4 AND IN THE NW 1/4–SE 1/4
SECTION 13–142–39
BECKER COUNTY, MINNESOTA



NOTE: Wetlands are shown per aerial photography

BUILDING SETBACKS

Per current Becker County Zoning Ordinances, primary structure building setbacks for land zoned residential are as follows:

Big Elbow Lake (Recreational Development Lake) – 100'

Side yard – 10'

Buck's Trail – 53' from ℄

Bluff– 30'

Orientation of bearing system is assumed.

LEGEND

● = Denotes iron monuments found.
○ = Denotes iron monuments set marked with Minnesota License No. 12004/48538/50320.
■ = Denotes cast iron monuments found.

0' 100' 200'
Graphic Scale
Scale: 1 inch = 100 feet

Curve Table

CURVE	CENTRAL ANGLE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	11°51'15"	1810.00'	374.58'	373.88'	N07°29'55"E
C2	34°54'46"	865.00'	526.91'	518.80'	N24°23'01"E
C3	05°57'52"	1880.00'	195.57'	195.48'	N15°01'49"E
C4	19°05'23"	1880.00'	626.30'	623.50'	N27°29'57"E
C5	19°44'05"	1655.00'	570.16'	567.31'	N27°27'01"E
C6	05°47'14"	1655.00'	167.00'	166.93'	N37°33'31"E
C7	37°28'10"	1655.00'	1082.31'	1063.01'	N56°20'43"E
C8	41°48'00"	1810.00'	1320.78'	1291.58'	N55°27'31"E
C9	7°23'20"	1810.00'	233.50'	233.33'	N35°56'35"E
C10	41°56'54"	1810.00'	1324.60'	1295.49'	N55°33'13"E
C11	20°29'08"	1880.00'	1346.49'	1315.22'	N53°57'35"E

Line Table

LINE	BEARING	DISTANCE
L1	N01°37'49"E	98.31'
L2	N07°58'18"E	238.13'
L3	N09°51'49"E	85.80'
L4	N09°51'49"E	73.54'
L5	N07°24'49"E	70.81'
L6	N03°08'19"E	91.86'
L7	N71°51'11"E	33.00'
L8	N71°51'11"E	32.72'
L9	S19°58'49"E	83.06'
L10	N71°51'11"E	202.72'
L11	N15°47'18"E	75.12'
L12	S53°31'11"E	33.00'
L13	S36°13'23"E	121.78'
L14	S89°13'23"E	82.17'
L15	N12°20'37"E	125.00'
L16	N89°20'37"E	33.72'
L17	N43°36'45"E	18.38'

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Land Surveyor under the laws of the State of Minnesota.

Roy A. Smith
Print Name
Signature:
March 7 2018
Date: License #

REV.	DWN	DESCRIPTION	DATE
Original	JJD	TRACTS B, C, D, AND E	04-25-2006
Rev. 1	JJD	TRACTS F, G AND H	12-28-2006
Rev. 2	JDA	TRACTS F & G ENLARGED	1-18-2007
Rev. 3	JJD	TRACTS G-1, G-2 AND G-3	03-07-2018

DRAWING NUMBER: T7216–15R

MEADOWLAND SURVEYING, INC.
1118 HWY 59 SOUTH, DETROIT LAKES, MN 56501
OFFICE: 218–847–4289 FAX: 218–846–1945
EMAIL: frontdesk@meadowlandsurveying.com
www.meadowlandsurveying.com

CLIENT:
ROGER GEDDES
37468 BUCK'S TRL
WAUBUN, MN 56589

COMP FILE:	13GEDDES
CRD FILE:	13DRAWN
DWG FILE:	13GEDDES-soil_REV3.dwg
COMP BY:	JJD
DRAWN BY:	JJD

Bearings are indicated relative to assumed meridian

546212

BECKER COUNTY RECORDER
STATE OF MINNESOTA
Document No. 546212
March 26, 2007 at 11:59 AM
I hereby certify that the within instrument was recorded in this office.

Darlene Maneval, County Recorder
By HB Deputy

No delinquent taxes and transfer entered
this 26th day of March 20 07
Ryan L. Tangen
Becker County Auditor/Treasurer
By JB Deputy
09-0106-000 Split ✓
tract G

Subject Mtg (Ac)

QUIT CLAIM DEED

STATE DEED TAX DUE
HEREON: $ 1.65

Surveyors Sketch ( ) not required
( ) filed Survey Book 18 Page 60

Date: 3/23, 2007

FOR VALUABLE CONSIDERATION, Rodger D. Geddes and Rhonda L. Geddes, husband and wife, Grantors, hereby convey and quitclaim to Rodger D. Geddes and Rhonda L. Geddes, husband and wife, as joint tenants, Grantees, real property in Becker County, Minnesota, described as follows:

That part of Government Lot 4 in Section 13, Township 142 North, Range 39 West of the Fifth Principal Meridian in Becker County, Minnesota, described as follows:

Commencing at a found cast iron monument which designates the east quarter corner of said Section 13; thence South 89 degrees 16 minutes 48 seconds West 2652.37 feet on an assumed bearing along the east-west quarter line of said Section 13 to the northeast corner of said Government Lot 4; thence South 00 degrees 10 minutes 22 seconds East 1285.19 feet along the east line of said Government Lot 4 to the centerline of an existing public road (Buck's Trail); thence North 71 degrees 53 minutes 11 seconds West 32.90 feet along the centerline of said existing public road (Buck's Trail); thence North 63 degrees 05 minutes 19 seconds West 28.23 feet continuing along the centerline of said existing public road (Buck's Trail); thence South 34 degrees 58 minutes 53 seconds West 33.33 feet to an iron monument; thence continuing South 34 degrees 58 minutes 53 seconds West 248.48 feet to an iron monument, said point is the point of beginning; thence North 34 degrees 58 minutes 53 seconds East 248.48 feet to an iron monument; thence continuing North 34 degrees 58 minutes 53 seconds East 33.33 feet to the centerline of said existing public road (Buck's Trail); thence North 63 degrees 05 minutes 19 seconds West 63.63 feet along the centerline of said existing public road (Buck's Trail); thence northwesterly continuing along the centerline of said existing public road (Buck's Trail) on a curve concave to the northeast, having a central angle of 65 degrees 22 minutes 52 seconds and a radius of 360.00 feet, for a distance of 410.80 feet (chord bearing North 30 degrees 23 minutes 53 seconds West) to a point hereinafter referred to as Point B; thence northerly continuing along the centerline of said existing public road (Buck's Trail) on a curve concave to the east, having a central angle of 04 degrees 47 minutes 16 seconds and a radius of 360.00 feet, for a distance of 30.08 feet (chord bearing North 04 degrees 41 minutes 11 seconds East); thence North 07 degrees 04 minutes 49 seconds East 70.81 feet continuing along the centerline of said existing public road (Buck's Trail); thence South 68 degrees 02 minutes 02 seconds West 37.73 feet to a found iron monument; thence continuing South 68 degrees 02 minutes 02 seconds West 184.36 feet to a found iron monument; thence South 31 degrees 01 minute 02 seconds West

chg ✓paid well non/std extra

BECKER COUNTY DEED TAX
AMT. PD. $ 1.65
Receipt # 354492
Becker County Auditor/Treasurer
MAR 26 2007

I certify the taxes due in the current tax year for the whole parcel are paid.
Ryan L. Tangen
Becker County Auditor/Treasurer
By JB Deputy

Rodger Geddes
210 9th St E
Ada, MN 56510

388.28 feet to a found iron monument; thence continuing South 31 degrees 01 minute 02 seconds West 15 feet, more or less, to the water's edge of Big Elbow Lake; thence southeasterly along the water's edge of said Big Elbow Lake to the intersection with a line which bears South 61 degrees 42 minutes 30 seconds West from the point of beginning; thence North 61 degrees 42 minutes 30 seconds East 13 feet, more or less, to an iron monument; thence continuing North 61 degrees 42 minutes 30 seconds East 336.34 feet to the point of beginning.

SUBJECT TO an easement for public road purposes (Buck's Trail) over, under and across that part of the above tract which lies within 33.00 feet of the centerline of said existing public road (Buck's Trail).

AND FURTHER SUBJECT TO a 33.00 foot wide easement for driveway purposes over, under and across part of the above tract. The centerline of said 33.00 foot wide driveway easement is described as follows:

Beginning at the aforementioned Point B; thence South 88 degrees 17 minutes 27 seconds West 89.97 feet; thence North 78 degrees 30 minutes 23 seconds West 175.60 feet; thence North 80 degrees 35 minutes 17 seconds West 38.22 feet and said centerline there terminates. The sidelines of said 33.00 foot wide driveway easement shall be prolonged or shortened to terminate on the northwesterly boundary of the above described tract and on the centerline of said existing public road (Buck's Trail).

together with all hereditaments and appurtenances belonging thereto.

Consideration for this conveyance is less than $500.00.

[Affix Deed Tax Stamp Here]

Rodger D. Geddes

Rhonda L. Geddes

STATE OF MINNESOTA)
) ss.
COUNTY OF BECKER)

The foregoing instrument was acknowledged before me this 23rd day of March, 2007, by Rodger D. Geddes and Rhonda L. Geddes, husband and wife, grantors.

NOTARIAL STAMP OR SEAL (OR OTHER TITLE OR RANK)

MARY P. LAVIGNE
Notary Public-Minnesota
My Commission Expires Jan 31, 2010

SIGNATURE OF PERSON TAKING ACKNOWLEDGMENT

Tax Statements for the real property described in this instrument should be sent to: (Include name and address of Grantee)

No Change

THIS INSTRUMENT WAS DRAFTED BY:

BRIGGS, RAMSTAD & SKOYLES, P.A.
Charles J. Ramstad
114 West Holmes, P.O. Box 683
Detroit Lakes, MN 56502-0683
(218) 847-5653
Atty. Reg. No. 0169390

COUNTY OF BECKER

Planning and Zoning

915 Lake Ave, Detroit Lakes, MN 56501

Phone: 218-846-7314 ~ Fax: 218-846-7266

PLANNING COMMISSION
NOTICE OF PUBLIC HEARING
HEARING DATE AND LOCATION

Tuesday, April 10, 2018 @ 7:00 P.M.

3rd Floor Jury Assembly Room New Addition-Becker County Courthouse
Detroit Lakes, MN 56501

APPLICANT: Long Shore Development, LLC
13274 435th St. SW
Fertile, MN 56540

Project Location: 23677 W. Long Lake Rd., Detroit Lakes

APPLICATION AND DESCRIPTION OF PROJECT:
Request a Conditional Use Permit to allow for development of a Sand & Gravel Pit mining and processing operation.

LEGAL LAND DESCRIPTION: Tax ID number: **08.0549.000 & 08.0551.001** Section 31 Township 139 Range 041 31-139-41 E1/2 E1/2 SW1/4; NE1/4 NW1/4 E OF RR ROW ; NW1/2 NE1/4; SW1/4 NE1/4; GOVT LOT 7 LESS 8.8AC TO DNR; LESS PT GOVT LOT 7 S OF W EXT OF N LN GOVT LOT 9 & E OF LN COMM E QTR COR SEC 31, N 222.3', SW 41.9' TO POB: SW 212.2', SLY 333.9' TO LK & TERM.

Replies/Comments: Interested parties are invited to submit to the Becker County Department of Planning, Zoning, and Land Use, written facts, arguments or objectives before the scheduled date of the Hearing. These statements should bear upon the suitability of the location and the adequacy of the Project and should suggest any appropriate changes believed to be desirable. Replies may be addressed to:

PLANNING AND ZONING DEPARTMENT
915 Lake Avenue
Detroit Lakes, MN. 56501

FAX Number 218-846-7266
EMAIL: zoning@co.becker.mn.us

If you have questions about the Project, feel free to call 218-846-7314.

Jurisdiction: This Project comes under the Regulatory Jurisdiction of the Becker County Zoning Laws.

Regulatory Authority: This Application will be reviewed according to the provisions of the Becker County Zoning Ordinance. The decision whether to issue a Permit will be based on an evaluation of the probable impact including cumulative impacts, of the proposed activity. That decision will reflect the concern for both protection and utilization of important resources. All factors, which may be relevant to the proposal, will be considered including the cumulative effects: Land Use, Shoreline Protection, Water Supply and Conservation, Safety, Economics, in General, the Needs and Welfare of the People.

** Weather conditions may change the Hearing date and time. If bad weather occurs, please listen to the local Detroit Lakes Radio Stations or contact the Zoning Office, by 4:30 PM on day of Hearing, for possible rescheduling of the Hearing.

~ CONDITIONAL USE APPLICATION ~

BECKER COUNTY PLANNING & ZONING

915 LAKE AVENUE, DETROIT LAKES, MN 56501
PHONE (218) 846-7314 - FAX (218) 846-7266

PARCEL	
APP	CUP
YEAR	
SCANNED	

PROPERTY OWNER INFORMATION (as it appears on tax statement, purchase agreement or deed)

Property Owner: Long Shore Development, LLC

Authorized Agent: Steven Ranz

Address: 13274 435th St SW

City, State, Zip Fertile, MN 56540

Phone Number(s): (701) 741-4151

Project Address: 23677 W Long Lake Road

Parcel number(s) of property: **08-0549-000 and 08-0551-001** (Note: Parcel #49-0053-180 is not included in this Conditional Use Application)

Sct - Twp - Range: **N ½ Section 31, Township 139N, Range 41W, Becker County, MN.**

Township Name: Detroit Lakes

Legal Description: See attached Certificate of Survey (Exhibit A in 2018 Mining & Reclamation Plan)

REASON FOR CONDITIONAL USE REQUEST: **To allow for the development of a Sand & Gravel Pit mining and processing operation on the designated properties. See the attached "2018 Mining & Reclamation Plan" for development, operational and reclamation details regarding this request.**

The information provided for this document is truthful and accurate to the best of my knowledge. I understand that this statement is null and void if any of the above information is not supplied or is inaccurate.

SIGNATURE OF APPLICANT (Steven Ranz, President) — DATE 03-08-2018

OTHER INFORMATION NEEDED TO COMPLETE THE APPLICATION:

1. A copy of the deed from the Recorder's Office;
2. Completed Site Application with sketch showing all setbacks, platted or surveyed dimensions of the lot and all existing and proposed buildings; parking area and all other materials deemed necessary.
3. Non-refundable filing fee of $326.00. If in Cormorant Township add $25.00 surcharge to the filing fee ($351.00). **Make check payable to Becker County Zoning.**
4. **Is the conditional use permit request after the fact? [ ] Yes [ ] No**
   If yes, after the fact application fee is an additional $600.00.

****

Office Use Only

This application is hereby (accepted) or (rejected) as presented.

SIGNATURE – ZONING ADMINISTRATOR — DATE 03-12-2018

RECEIVED
MAR 09 2018
ZONING

PARCEL	
APP	CUP
YEAR	

BUSINESS PLAN

Name of Business: Strata Corporation (On behalf of the property owners; Long Shore Development, LLC)

Owners of Business: James Bradshaw, Principal and CEO of Strata Corporation

Type of Business: Aggregate Mining and Processing

Type of Merchandise: Aggregates, Ready Mixed Concrete, Heavy Construction, Rail & Truck Transportation

Type of Service: Mining, Processing and Transportation of Construction Aggregates

Hours of Operation: See attached 2018 Mining & Reclamation Plan for details

Number of Employees: ± 30 full time

Off – street Parking Plan: Not applicable

Size of Structure to be used for Business: Small utility shed (no significant buildings or structures planned - see 2018 Mining & Reclamation Plan for details)

New Structure: (see 2018 Mining & Reclamation Plan for details)

Existing Structure: An aged Residential Home and Pole Barn shop building (both which will be removed)

Signage Plan: Boundary Marker posts and required Mine Area Warning signage will be installed around site

Exterior Lighting Plan: N/A

Environmental Hazards: No Environmental hazards were anticipated nor discovered during the environmental review of this Project. This environmental review process included an extensive Environmental Assessment Worksheet (EAW) which identified all potential environmental hazards, impacts and/or effects and concluded that all potential environmental hazards, impacts and/or effects which were likely to be encountered by this Project were not considered significant, and could be effectively mitigated through the project design features and plans, as well as through public regulatory agency controls. See the attached 2018 Mining and Reclamation Plan as well as the separate Environmental Assessment Worksheet prepared October 18, 2017, and the subsequent Becker County Findings of Fact and Record of Decision issued December 19, 2017 for detailed information on this extensive environmental review process.

Other Comments: Strata Corporation, in conjunction with it's sister company, Glacial Resources, Ltd. and the property owners, Long Shore Development, LLC, hereby respectfully request that the attached "*2018 Mining & Reclamation Plan*" be incorporated into and made part of any Conditional Use Permit that Becker County may issue for the Long Shore Resource Project. This 2018 Mining & Reclamation Plan (Mine Plan) describes in detail the development plans, operational details, and reclamation plans for this Project, which the property owners and project proposers request become required performance standards and/or special conditions for the issuance of a Conditional Use Permit for this Project.

Please answer the following questions as they relate to your specific CUP request:

1. **Effect on surrounding property.** That the conditional use will not harm the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminish or impair property values within the immediate vicinity.
   No harmful, injurious, or adverse effects are anticipated from this conditional use. See attached 2018 Mining & Reclamation Plan for details.

2. **Effect on orderly, consistent development.** That establishing the conditional use will not impede the normal, orderly development and improvement of surrounding vacant property for uses predominant in the area.
   This conditional use will not impede the normal, orderly development and improvement of the surrounding vacant property uses in the area. See attached 2018 Mining & Reclamation Plan for details.

3. **Adequate facilities.** That adequate utilities, access roads, drainage and other necessary facilities have been or are being provided.
   This conditional use has taken into account and made provisions for all utilities, access roads, drainage and other necessary facilities during the execution of this Project. See attached 2018 Mining & Reclamation Plan for details.

4. **Adequate parking.** That adequate measures have been or will be taken to provide sufficient off-street parking and loading space to serve the proposed use.
   Adequate parking has been addressed in this conditional use. No parking problems are foreseen.

5. **Not a nuisance.** That adequate measures have been or will be taken to prevent or control offensive odor, fumes, dust, noise and vibration, so none of these will constitute a nuisance, and to control lighted signs and other lights so that no disturbance to neighboring properties will result.
   Extensive measures have been taken to prevent offensive odors, fumes, dust, noise and vibrations to constitute a nuisance, and to control lighted signs and other lights so that no disturbance to neighboring properties will result. In addition, extensive measures have been taken to help screen virtually all sight viewpoints of this Project. See attached 2018 Mining & Reclamation Plan for details.

6. **Additional criteria for shoreland areas.** In Shoreland areas, it shall be found that adequate measures have been or will be taken to assure that:
   a. **Pollution.** Soil erosion or other possible pollution of public waters will be prevented, both during and after construction;
      Extensive measures have be taken to protect Shoreland Areas (including groundwater resources) from water pollution caused by surface or storm water runoff soil erosion, or pollution caused by fuel, chemicals or other man-made substances. See attached 2018 Mining & Reclamation Plan for details.

   b. **View from public waters.** That the visibility of structures and other facilities as viewed from public waters will be limited;
      Extensive measures have been taken to help screen virtually all sight viewpoints of this Project, including those from public waters. See attached 2018 Mining & Reclamation Plan for details.

c. **Adequate utilities.** That the site is adequate for water supply and on-site sewage treatment;
No on-site water sources or sewage treatment facilities are planned for this site. See attached 2018 Mining & Reclamation Plan for details.

d. **Watercraft.** That the types, uses, and number of watercrafts that the project will generate can be safely accommodated.
Not applicable. No watercraft are planned to utilize this Project.

CERTIFICATE OF REAL ESTATE VALUE FILED. #906
No delinquent taxes and transfer entered this 30th day of Oct. 2002
Keith A. Brekken
County Auditor, Becker Co
By Ann Deputy
08-0549-000
OCT 16 2002
RECEIPT # 235123
BECKER COUNTY DEED TAX
AMT. PD. $ 1,359.60
BECKER COUNTY TREASURER

487783

BECKER COUNTY RECORDER-STATE OF MN
Document No. 487783
Date OCT 31 2002 2 O'clock P.M.
I hereby certify that the within instrument was recorded in the office of Becker County Recorder.
M. M. Mortinson
County Recorder Ann Dpty.

WARRANTY DEED

DATE: September 16, 2002

DEED TAX DUE HEREON: $ ~~1,458.60~~ 1359.60

FOR VALUABLE CONSIDERATION, **Joseph Bernardy and LeAnn Bernardy, husband and wife**, Grantors hereby convey and warrant to **Long Shore Development LLC** Grantee, real property in Becker County, Minnesota, described as follows:

The East Half of the East Half of the Northwest Quarter, North Half of the Northeast Quarter, Southwest Quarter Northeast Quarter, (E½ E½ NW¼, N½ NE¼, SW¼ NE¼) and Government Lot Numbered 7 all in Section 31, Township 139 North of Range 41 West of the Fifth P.M.
EXCEPT that portion of the E½ NE¼ NW¼, described as follows: Beginning at a point in the N. line of said subdivision distant 310 ft. W., measured along said N. line from the Northeast corner thereof, thence W. along the N. line 350 ft. to the Northwest corner of said subdivision, thence S. along the W. line of said subdivision a distance of 962 ft., thence Northeasterly along a straight line to the point of beginning.
ALSO EXCEPT all that part of Gov't. Lot 7, Sec. 31, bounded by the water's edge of Long Lake and the following described lines: To find the point of beginning, commence at the E. quarter corner of said Sec. 31, thence N. 00 degrees 00 minutes E. 222.3 ft. on and along the E. line of said Sec. 31, thence S. 51 degrees 56 minutes W. 41.9 ft. to the true point of beginning, thence S. 51 degrees 56 minutes W. 212.2 ft., thence S. 13 degrees 55 minutes W. 333.9 ft., more or less, to the water's edge of Long Lake and there terminating. And from the point of beginning, N. 00 degrees 00 minutes E. 700.0 ft. parallel with the E. line of said Sec. 31, thence N. 89 degrees 33 minutes W. 826.6 ft., thence S. 01 degree 44 minutes E. 500.0 ft., thence S. 12 degrees 47 minutes W. 385.4 ft., thence N. 88 degrees 01 minute E. parallel with the East-West quarter line of said Sec. 31, for 277.0 ft., more or less to the water's edge of Long Lake and there terminating. Including all riparian rights and subject to existing road easements.
TOGETHER WITH a road easement, a strip of land 33.0 ft. wide, lying in Gov't. Lot 7, Sec. 31, described as follows: To find the point of beginning, commence at the E. quarter corner of said Sec. 31, thence N. 00 degrees 00 minutes E. 222.3 ft. on and along the E. line thereof, thence S. 51 degrees 56 minutes W. 41.9 ft. to the true point of beginning, thence N. 00 degrees 00 minutes E. 1,118.3 ft. parallel with the E. line of said Sec. 31, thence N. 90 degrees 00 minutes E. 33.0 ft. to a point on the edge of Township Road and the E. line of said Sec. 31, thence S. 00 degrees 00 minutes E. 1,092.5 ft. on and along the E. line of said Sec. 31, thence S. 51 degrees 56 minutes W. 41.9 ft. to the point of beginning.

Parcel No. 08-0549-000

together with all hereditaments and appurtenances belonging thereto, subject to the following exceptions: the lien of all unpaid special assessments and interest thereon;

Seller hereby certifies that there are no wells on the property or that there has been no change in the status of well pertaining to this property since the last filed well certificate.

Joseph Bernardy
JOSEPH BERNARDY

Joseph Bernardy for LeAnn Bernardy 16 Sept 02
LEANN BERNARDY

STATE OF MINNESOTA)
)SS.
COUNTY OF Hunton)

STATE OF MINNESOTA)
)SS
COUNTY OF BECKER)

The foregoing instrument was acknowledged before me this 10th day of Oct-Dec, 2002, by Joseph Bernardy, husband of Leanne Bernardy, Grantors.

JAMES D. SINCLAIR
NOTARY PUBLIC - MINNESOTA
My Commission Expires Jan. 31, 2005

(notary stamp or seal)

James D. Sinclair
Notary Public

503928

CERTIFICATE OF REAL #2462
ESTATE VALUE FILED
No delinquent taxes and transfer entered
this 21 day of Oct 20 03
Keith A. Brekken
County Auditor, Becker Co
By DCwacker Deputy
08.0551.000 Split

BECKER COUNTY RECORDER-STATE OF MN
Document No. 503928
Date OCT 21 2003 1 O'c P M.
I hereby certify that the within instrument was recorded in this office.
Darlene Maneval
County Recorder by ll Deputy

Surveyors Sketch ( ) not required
( ) Filed Survey Book 14 Page 63

WARRANTY DEED

DATE: October 7, 2003

DEED TAX DUE HEREON: $_____

FOR VALUABLE CONSIDERATION, Adolph E. Hafner, a single person, Grantor hereby conveys and warrants to Long Shore Development L.L.C., Grantee, real property in Becker County, Minnesota, described as follows:

A tract of Land situated in the West Half of the Southeast Quarter of the Northwest Quarter (W½SE¼NW¼)in Section Thirty-one (31), Township One Hundred Thirty-nine(139)North, Range Forty-one (41)West of the Fifth Principal Meridian, Becker County, Minnesota, described as follows:

Beginning at the southeast corner of the West Half of the Southeast Quarter of the Northwest Quarter; thence on and assumed bearing of South 88 degrees 55 minutes 05 seconds West, along the south line of the Northwest Quarter 408.06 feet to a point on the easterly right-of-way of the railroad; thence along said railroad right-of-way on the following courses: thence North 08 degrees 10 minutes 30 seconds East 586.56 feet; thence Northeasterly along a circular curve, radius of 2,499.12 feet and arc length of 517.37 feet; thence North 20 degrees 02 minutes 11 seconds East 252.84 feet to a point on the north line of West Half of the Southeast Quarter of the Northwest Quarter; thence leaving said railroad right-of-way North 89 degrees 10 minutes 34 seconds East, along the north line of said West Half of the Southeast Quarter of the Northwest Quarter 124.24 to the northeast corner of said West Half of the Southeast Quarter of the Northwest Quarter; thence South 00 degrees 31 minutes 47 seconds west 1,313.14 feet to the point of beginning.

together with all hereditaments and appurtenances belonging thereto, subject to the following exceptions: the lien of all unpaid special assessments and interest thereon;

Seller hereby certifies that there are no wells on the property, or that there has been no change in the status of wells since the last well certificate filed of record.

Adolph E. Hafner
ADOLPH E. HAFNER

STATE OF MINNESOTA)
)SS.
COUNTY OF Becker)

The foregoing instrument was acknowledged before me this 7th day of October, 2003 by Adolph E. Hafner, a single person, Grantor.

Notarial Seal
DARLENE MANEVAL
NOTARY PUBLIC - MINNESOTA
My Comm. Exp. Jan. 1, 2007

Darlene Maneval
SIGNATURE OF NOTARY PUBLIC OR OTHER OFFICIAL

This instrument was drafted by:
Sandra B. Dittus
Zimney Foster P.C.
3100 South Columbia Road Suite 200
Grand Forks, ND 58208-3417
Telephone No. (701) 772-8111

Tax Statements for the real property described in this instrument should be sent:
Long Shore Development L.L.C.
Attn: Steve Ranz
13274 435th Street SW
Fertile, MN 56540

OCT 21 2003
RECEIPT # 265091
BECKER COUNTY
DEED TAX
AMT. PD. $ 16.50
BECKER COUNTY TREASURER

I hereby certify that taxes for the year 2003 on the lands described within are paid in full
Ryan A. Gangen Co. Treas.
DCwacker Deputy

chg
paid
well
non/std
extra

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.

Long Shore Development LLC Map #1

Becker County

1:19,719

Date: 3/12/2018

This map is not a substitute for accurate field surveys or for locating actual property lines and any adjacent features.

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.

Long Shore Developemnt LLC Map #2

Becker County

1:6,162

Date: 3/12/2018

This map is not a substitute for accurate field surveys or for locating actual property lines and any adjacent features.

MEADOWLAND SURVEYING INC

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Meadowland Surveying, Inc. is a local family owned company and has performed over 10,000 surveys in the lakes area. Our office routinely works with attorneys, architects, engineers and governmental agencies to ensure successful project completion for our clients.

EXPERIENCE MATTERS!

Detroit Township 139N - Range 41W

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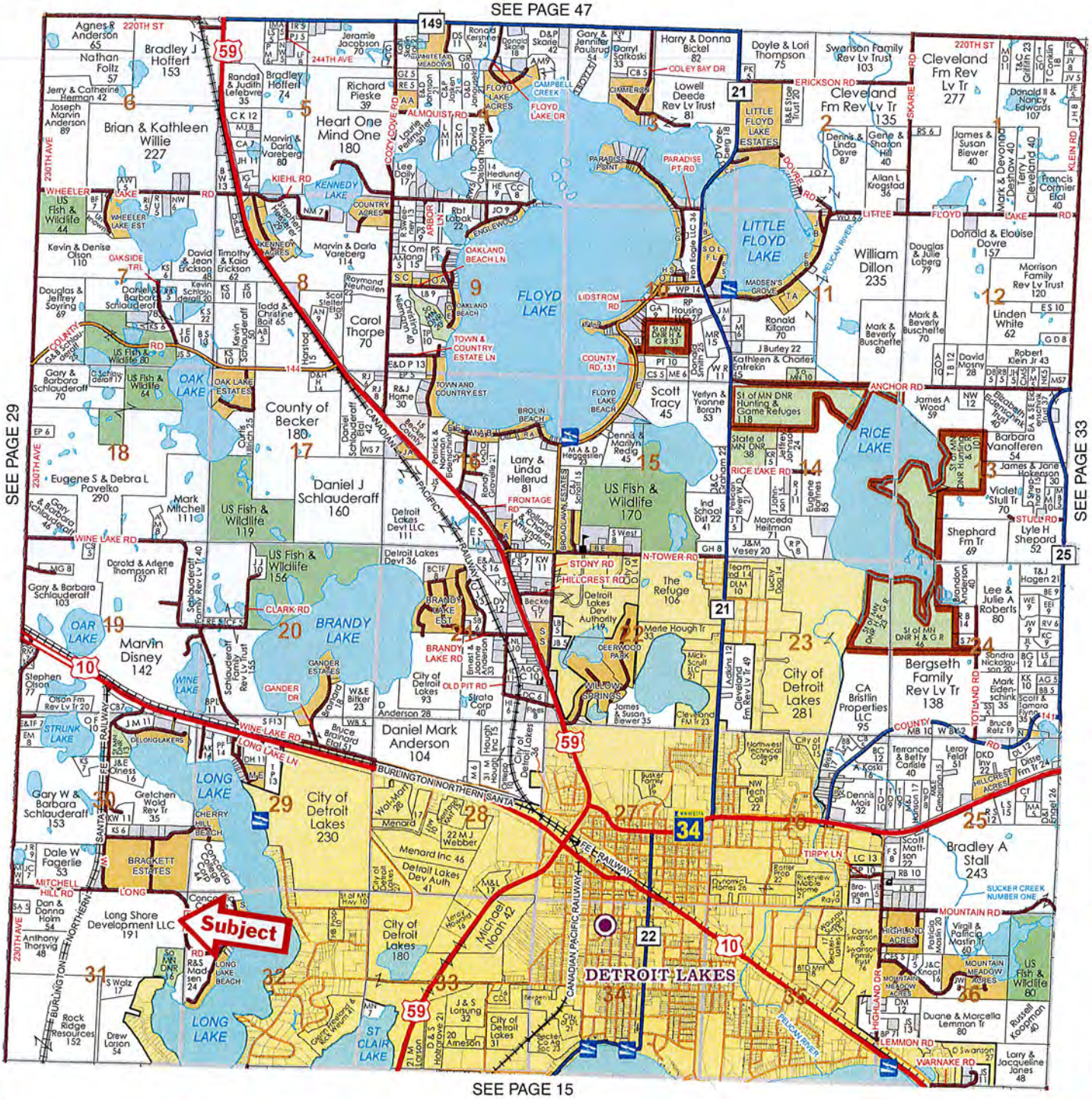
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