March 14, 2023			
AGENDA			
YANKTON COUNTY PLANNING COMMISSION			
Cherie Hoffman Cathy Weiss Don Kettering	Lauren Nelson		

7:00 P.M.

Call Meeting to Order Roll Call Approve Minutes from previous meetings Items to be added to Agenda Approval of Agenda Conflict of Interest Declarations

7:05 P.M.

East River Electric – Conditional Use Permit

Applicant is requesting a Conditional Use Permit to construct a wireless tower for internal communications with their substation per Article 25 Section 2503. Said property is legally described as Lot 1 of Lewis and Clark Substation addition in the Southwest Quarter of the Southwest Quarter of Section 15, Township 93 North, Range 56 West of the 5th Principal Meridian, Yankton County, South Dakota. E911 address is 206 S. Deer Boulevard, Yankton, South Dakota

<u>7:10 P.M.</u>

Frick – Variance

Applicant is requesting a variance to minimum lot size in an Agriculture District. Applicant wishes to replot one previously platted non-conforming lot into two lots each smaller than 20 acres per Article 18 Section 1807. Said property is legally described as Plat of Lots 1 and 2 of J & P Frick Addition, in the SW1/4 of the SE1/4 of Section 8, and in the NW1/w of the NE1/4 of Section 17, T94N, R55W of the 5th P.M., Yankton County, South Dakota. E911 Address is 30499 SW Jim River Rd, Yankton, South Dakota. This plat vacates previously platted Lot A of Lot 4 of Schlaefli's 3rd. Addition in the W1/2 of the SE1/4 of Section 8, T94N, R55W of the 5th P.M., Yankton County, SD. Recorded on May 23, 2000, and Recorded in Book S18, Page 183

<u>7:15 P.M.</u>

Article 4 and Maps

7:20 P.M.

PLATS

Frick - Plat of Lots 1 and 2 of J & P Frick Addition, in the SW1/4 of the SE1/4 of Section 8, and in the NW1/w of the NE1/4 of Section 17, T94N, R55W of the 5th P.M., Yankton County, South Dakota. This plat vacates previously platted Lot A of Lot 4 of Schlaefli's 3rd. Addition in the W1/2 of the SE1/4 of Section 8, T94N, R55W of the 5th P.M., Yankton County, SD. Recorded on May 23, 2000, and Recorded in Book S18, Page 183

Smit - Plat of Tract A of Katie's Addition, in the SE1/4 of the NE1/4 of Section 17, T96N, R55W of the 5th P.M., Yankton County, South Dakota

<u>7:25 P.M.</u> Discussion on ideas to promote economic development in the county

<u>7:30 P.M.</u> Public Comment

MEETING (ENTITY) DATE: <u>12/13/2</u>	
STAFF ATTENDANC ROLL 🛛 🖾 BA CALL:	CE:Conkling ARKL □ EVANS ⊠KETTERING ⊠MICHAEL ⊠NELSON □WEISS ⊠HOFFMAN
APPROVAL OF MIN PLANNING: 🛛	IUTES: MOTION BY: <u>Kettering</u> SECOND BY: <u>Hoffman</u> BARKL □ EVANS ⊠KETTERING □MICHAEL ⊠ NELSON □WEISS ⊠HOFFMAN
APPROVAL OF AGE PLANNING: 🛛	ENDA: MOTION BY: <u>Michael</u> SECOND BY: <u>Kettering</u> BARKL □ EVANS ⊠KETTERING ⊠MICHAEL ⊠ NELSON □WEISS ⊠HOFFMAN
AGENDA ITEM: ADDRESS/LEGAL:	Eickoff – Amend Planned Unit Development Applicant is requesting to amend his Planned Unit Development per Article 18 Section
	1809. Applicant is replotting part of the PUD. Said property is legally described as Plat of Lots 7 through 14 Drake Subdivision in the NW1/4 of the NE1/4, Section 17, Township 93 North, Range 56 West of the 5th P.M., Yankton County, South Dakota Formerly known as: Lot 1, Drake Subdivision in the NW1/4 of the NE1/4, Section 17, Township 93 North, Range 56 West of the 5th P.M., Yankton County, South Dakota
COMMENTS:	Keith Eickoff – applicant Lee Rettig - contractor
MOTION:	Approve as presented Passed 5-0
APPROVAL: PLANNING:	MOTION BY: <u>Michael</u> SECOND BY: <u>Kettering</u> BARKL CEVANS KETTERING MICHAEL NELSON WEISS HOFFMAN
AGENDA ITEM: ADDRESS/LEGAL:	Eickoff Plat Plat of Lots 7 through 14 Drake Subdivision in the NW1/4 of the NE1/4, Section 17, Township 93 North, Range 56 West of the 5th P.M., Yankton County, South Dakota Formerly known as: Lot 1, Drake Subdivision in the NW1/4 of the NE1/4, Section 17, Township 93 North, Range 56 West of the 5th P.M., Yankton County, South Dakota
COMMENTS:	None
MOTION:	Approve as presented Passed 5-0
APPROVAL:	MOTION BY: Kettering SECOND BY: Hoffman

PLANNING: \square BARKL \square EVANS \square KETTERING \square MICHAEL \square NELSON \square WEISS \square HOFFMAN

AGENDA ITEM:	Brewer Plat
ADDRESS/LEGAL:	Plat of Lot 12, Block 1, Beaver Beach Park, in Lot 11 of the SW1/4 of the SE1/4, and Being a replat of Lots 11 and 11A, in Block 1 of Beaver Beach Park, Section 27, T95N, R56W of the 5 P.M., Yankton County, South Dakota
COMMENTS:	None
MOTION:	Approve as presented Passed 5-0
APPROVAL: PLANNING: D	MOTION BY: <u>Michael</u> SECOND BY: <u>Nelson</u> I BARKL □ EVANS ⊠KETTERING ⊠MICHAEL ⊠ NELSON □ WEISS ⊠HOFFMAN
AGENDA ITEM: ADDRESS/LEGAL: COMMENTS:	Jensen Plat Plat of Tract 9 of DJ's Addition, in Lot A of Section 16, T93N, R55W of the 5 th P.M., Yankton County, South Dakota
COMMENTS:	None
MOTION:	Approve as presented Passed 5-0
APPROVAL: PLANNING: D	MOTION BY: <u>Kettering</u> SECOND BY: <u>Michael</u> BARKL I EVANS IKETTERING IMICHAEL IN NELSON IWEISS IHOFFMAN
AGENDA ITEM: ADDRESS/LEGAL:	Little Plat Plat of Tract 1, Little Addition, in the SW1/4 of the SE1/4 of Section 2, T93N, R56W of the 5th P.M., Yankton County, South Dakota
COMMENTS:	None
MOTION:	Approve as presented Passed 5-0
APPROVAL: PLANNING: D	MOTION BY: <u>Michael</u> SECOND BY: <u>Nelson</u> BARKL 🗆 EVANS 🖾 KETTERING 🖾 MICHAEL 🖾 NELSON 🗆 WEISS 🖾 HOFFMAN

AGENDA ITEM:	Hofer Plat		
ADDRESS/LEGAL:	Plat of Kuchta 3 rd Addition in the NE1/4 of the NE1/4 of Section 6, Township 93 North, Range 55 West of the 5 th P.M., City and County of Yankton, South Dakota Containing 731,081 SQ Feet (16.78 Acres) more or less		
COMMENTS:	None		
MOTION:	Approve as presented Passed 5-0		
APPROVAL: PLANNING:	MOTION BY: <u>Hoffman</u> SECOND BY: <u>Kettering</u> ⊠ BARKL □ EVANS ⊠KETTERING ⊠MICHAEL ⊠ NELSON □WEISS ⊠HOFFMAN		
AGENDA ITEM:	Springwater Plat		
ADDRESS/LEGAL:	Plat of Tract 1 and Tract 2 of Springwater Addition, in Lot K-1 of the NW1/4 of the NE1/4 of Section 15, T93N, R56W of the 5th P.M., Yankton County, South Dakota		
COMMENTS:	None		
MOTION:	Approve as presented Pased 5-0		
APPROVAL: PLANNING:	MOTION BY: <u>Michael</u> SECOND BY: <u>Hoffman</u> ⊠ BARKL □EVANS ⊠KETTERING ⊠MICHAEL ⊠ NELSON □WEISS ⊠HOFFMAN		
AGENDA ITEM:	Public Comment		
ADDRESS/LEGAL: COMMENTS:	No public comments		
COMMENTS.	No public comments Commissioner Kettering asked that the next meeting agenda include a discussion amongst the Planning Commissioners with ideas to promote economic development in the county.		
MOTION:			
	Adjourn Passed 5-0		
APPROVAL:	MOTION BY: Michael SECOND BY: Kettering		
PLANNING:	$oxtimes$ barkl \Box evans $oxtimes$ kettering $oxtimes$ michael $oxtimes$ nelson \Box weiss $oxtimes$ hoffman		

AGENDA ITEM:	
ADDRESS/LEGAL	
COMMENTS:	
MOTION:	
MOTION.	
APPROVAL:	MOTION BY: SECOND BY:
PLANNING:	🗆 BARKL 🗆 EVANS 🗆 KETTERING 🗆 MICHAEL 🗆 NELSON 🗆 WEISS 🗆 HOFFMAN
AGENDA ITEM:	
ADDRESS/LEGAL	:
COMMENTS:	
MOTION:	
APPROVAL:	MOTION BY: SECOND BY:
PLANNING:	BARKL 🗆 EVANS 🗆 KETTERING 🗆 MICHAEL 🗆 NELSON 🗆 WEISS 🗆 HOFFMAN
AGENDA ITEM:	
ADDRESS/LEGAL	· · · · · · · · · · · · · · · · · · ·
COMMENTS:	
MOTION:	
APPROVAL:	MOTION BY: SECOND BY:
PLANNING:	BARKL CEVANS KETTERING MICHAEL NELSON WEISS HOFFMAN
FLAIMINING.	
AGENDA ITEM:	
ADDRESS/LEGAL	

COMMENTS:

MOTION:

APPROVAL:	MOTION BY:	SECOND BY:	
PLANNING:	🗆 BARKL 🗆 EVANS 🗌 K	ETTERING IMICHAEL INELSON IWEISS HOFFMAN	

Yankton County Planning Commission

Yankton County Board of Adjustment

Applicant	East	River Elect	ric 1/	27/2023
District type:	AG 🗌 R1-Low	R2-Moderate	R3-High	C-Comm.
	LC – Lakeside Con	nmercial 🗌 RT-Ru	ural Transitiona	1
Sectio		CUP needed: n 607 🛛 Section	707 🗌 Secti	on 807
	Section 1805	Section 1905 S	ection 2503	

NOTE:

Conditional Use Permit

Applicant is requesting a Conditional Use Permit to construct a wireless tower for internal communications with their substation per Article 25 Section 2503. Said property is legally described as Lot 1 of Lewis and Clark Substation addition in the Southwest Quarter of the Southwest Quarter of Section 15, Township 93 North, Range 56 West of the 5th Principal Meridian, Yankton County, South Dakota. E911 address is 206 S. Deer Boulevard, Yankton, South Dakota

PC: Article 18 Section 1805 BOA: Article 19 Section 1905

Planning Commission date: 3/14/2023

Time: 7:05 PM Time:

Board of Adjustment date: 4/4/2023

Permit Number: _____CUP-2023-88

Yankton County				
	Variance <u>X</u> Conditional Use <u>Rezoning</u>			
Owner:	East River Electric Power Cooperative, Inc.			
Owners Address:	211 S. Harth Ave., Madison, SD 57042			
Owners Phone: Applicants Name, if different from	6052568269			
Owner:	Jerae Wire			
Applicants Address:	211 S. Harth Ave., Madison, SD 57042			
Job Address:	206 S DEER BLVD, Yankton, 57078			
Legal:	S60 ACRES SW4			
Section, Township, Range:	15-93-56			
Zoning Classification:	R2			
Affected Zoning Ordinance:	Section 7072503Section 7072503			
Reason for Request:	To install a 60' communication tower on the property owned by East River Electric for internal only system communications for our substation			
List Specific Hardships:	This SCADA communication tower is an essential accessory to our substation for both monitoring and controlling functions.			
	LANNING COMMISSION ACTION (DATE): 03/14/2023 8:05 PM CST			
Application Fee:	\$300.00 Check #: 213758068 Receipt #:			
_	Jeroe With Date: 01/27/2023			
Sign	Signature:			

East River Electric P

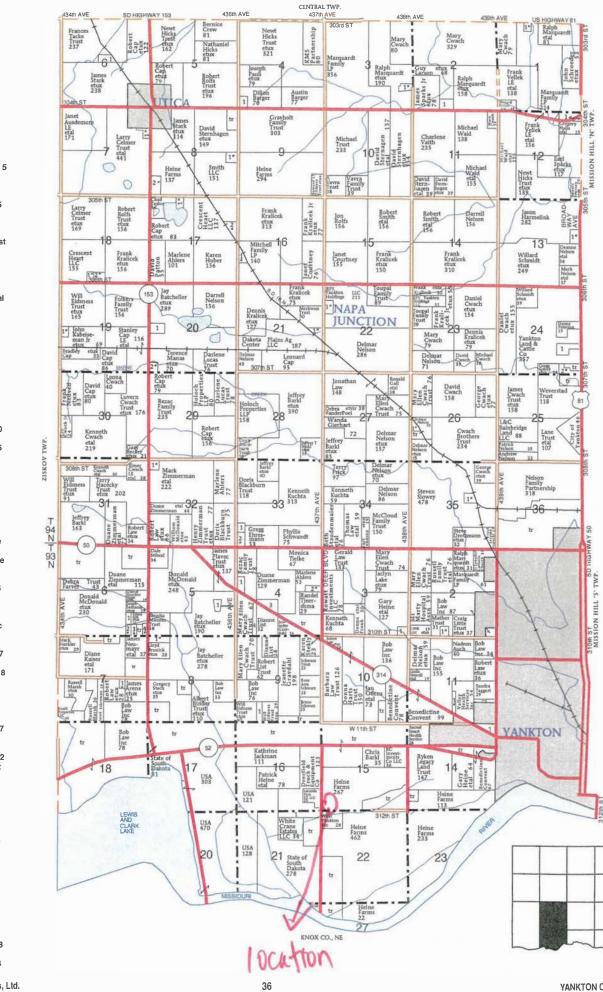
Site Map



Parcel Number: 09.015.300.200

Site Description: The tower location will be 36'-7" from our south site fence and 16' from our west site fence. Our site fence will be set back 50' from the right of way line on the south side of the property and 80' from the west ROW line. 146' from South Deer BIVD center line 337-7" from our south property line T-93-94-N

UTICA PLAT



UTICA TOWNSHIP SECTION 1N 1. Siebrandt, Jacob etux 5 SECTION 2N 1. Kralicek, Melissa 11

SECTION 2S

1. Holdahl, Robert etux 5 SECTION 3N 1. Grate, Leo etux 11 SECTION 3S Holtzmann Family Trust 7 SECTION 4N 1. Nedved, Mark 7 SECTION 4S 1. Larson, Robert 8 2. Brandt Trust, Merle etal 11 3. Zimmerman, Steve 20 4. List Trust, Robert 18 SECTION 5S 1. Batcheller, Jay 8 SECTION 6N 1. Town of Utica 6 SECTION 6S 1. Maska, Leann 5 2. Olivier, Curtis etux 6 3. Loecker, Mark etux 5 4. Blaha, Jon etux 5 SECTION 7N Anthony, Craig etux 10 1.

SECTION 7S 1. Philips, Timothy etux 5 SECTION 8N 1. Christianson, David

etux 6 2. Hughes, Scott etux 13

SECTION 85 1. Fanta, Timothy etux 9

SECTION 95 1. Rokahr, Steven 9

SECTION 11S Heceky Trust, Terrance

etux 11

Affordable Self Storage 2. LLC 8

SECTION 12N 1. Marguardt Family LP 6

SECTION 13N

1. Cotton, Jeffrey etux 8 SECTION 14S

1. Yankton Medical Clinic PC 12

SECTION 16N

1. Anstine, Rodney etux 7 <u>SECTION 17N</u> 1. Schenkel, Darrell etux 8

2 Tacke, WM etux 13

SECTION 18N 1. Cap LE, Stanley etal 5

2. Cap, Robert etux 7 SECTION 19 1. Schenkel, Daniel etux 7

SECTION 20N

1. Yankton Co Sharpshooters Assn 12

2. Johnson, Michael etux 9

SECTION 21N

1. Kralicek, Frank etux 5

SECTION 21S 1. White Crane Estates

LLC 18

SECTION 22N

1. Taggart, William etux 9

SECTION 24 Marquardt, Doug 13
 Keller, Dallas etux 10

SECTION 26 1. Barnes, David etux 7

SECTION 32

1. Zimmerman Trust,

Henry etal 12 SECTION 33

1. Delozier, Darrik 6 2. Waddell, Edward etux 8

SECTION 35

1. Slowey, Steven etux 14

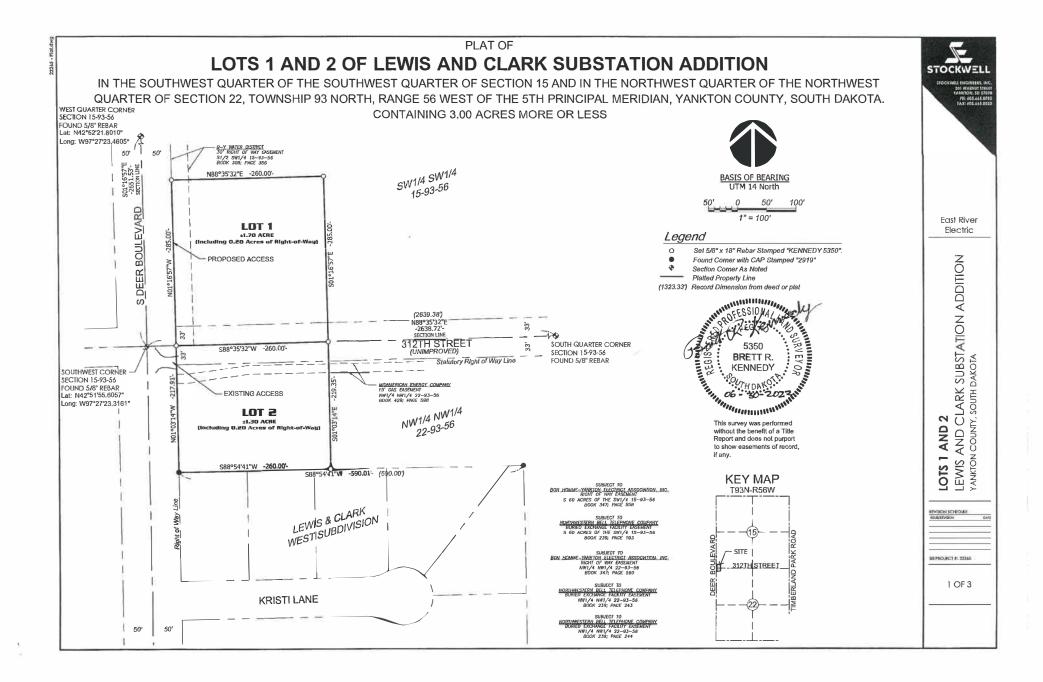
FINDINGS OF FACT – CONDITIONAL USE PERMIT

East River Electric – CUP-2023-88

Are the re	equirements of Section 1723 met?	Yes	
	y owner unless there is a binding purchase	163	
	t then signed by applicant, Variance accompanied		
-	g permit (if applicable), site plan included with		
building p			
	equirements of Section 1729 met?	Yes	
	aid at time of application)		
Section 18			
	id you specifically cite, in the application, the se	ection of the	Applicant is requesting a Conditional
	rdinance under which the conditional use is sought a		Use Permit to construct a wireless
	rounds on which it is requested		tower for internal communications
0.			with their substation per Article 25
			Section 2503.
2. W	/as notice of public hearing given per Section 1803 (3	3-5)?	Mailed –
		- / -	Published –
3. At	ttend the public hearing		
0			
4. Pla	lanning Commission: Make a recommendation to inc	lude:	
a.	Granting of conditional use;		
b.	. Granting with conditions; or		
с.	Denial of conditional use		
5. Pla	lanning Commission must make written finding	gs certifying	
CO	ompliance with specific rules including:		
a.	8		
	particular reference to automotive and pedestriar	n safety and	
	convenience, traffic flow and control, and access i	n case of fire	
	or catastrophe:		
b.			
	with particular attention to the items in (A) above		
	economic, noise, glare or odor effects of the cond		
	on adjoining properties and properties generally in		
с.		e to the	
	items in (A) and (B) above;		
d. Utilities, with reference to locations, availability, and			
	compatibility;		
e. Screening and buffering with reference to type, dimensions,			
	and character;		
f.	Signs, if any, and proposed exterior lighting with r	eference to	
	glare, traffic safety, economic effect;		
g.	Required yards and other open spaces; and		
g.		d other	

use will not adversely affect the public interest	
use will not adversely affect the public interest.	

\\ml350g9\Company\Planning & Zoning\Zoning Department Files\Packets & Preparation\2023\3-14-2023 PC\ER Electric CUP\Blank CUPFOF.docx



	22265 - Plat.dwg
SURVEYOR'S CERTIFICATE	
I, Brett R. Kennedy, a Registered Land Surveyor of the State of South Dakota, a before June 20, 2022, survey that parcel of land described as: LOTS 1 AND 2 OF LEWIS J IN THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 15 AND IN THE NORTHW QUARTER OF SECTION 22, TOWNSHIP 93 NORTH, RANGE 56 WEST OF THE 5TH PRINCIPAL MERIDIAN I also hereby certify that this plat is to the best of my knowledge and belief, in a true description of said property.	AND CLARK SUBSTATION ADDITION VEST QUARTER OF THE NORTHWEST
Dated this <u>30th day</u> of <u>June</u> , 2022.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Brett R. Kennedy, L.S. 68560	N, YANKTON COUNTY, SOUTH DAKOTA. all respects, POFESSIONAL REG. NO:
OWNER'S CERTIFICATE	
We do hereby certify that we are the owners of all the land included in the abor at our request and in accordance with our instructions for the purpose of locating, m development of this land shall conform to all existing applicable zoning, subdivision and	ve plat and that said plat has been made arking and platting, and that the
We hereby dedicate to the public for public use forever, the streets, roads, alleys shown on said plat, including all sewers, culverts, bridges, water distribution lines, side the streets, roads, alleys, parks and public grounds, whether such improvements are s easements to run with the land for water, drainage, sewer, gas, electric, telephone or on or over those strips of land designated hereon as easements.	walks and other improvements on or under shown or not. We also hereby grant
Dated thisday of , ,	
By:	By: ember Steven M. Heine Revocable Trust Janet. Heine, Trustee Member
COUNTY	
STATE OF On this, theday of before me, the undersigned, a Methode the person whose name is subscribed to the foregoing Dedication, and I hereby foregoing instrument.	s of Heine Farms S.D., L.L.C., known to me
In witness whereof, I hereunto set my hand and official seal.	
My commission expires	
Notary Public	
Dated thisday of,,	
West Yankton, Inc.	
COUNTY	
On this, theday of,, before me, the undersigned offic for West Yankton, Inc., known to be the person whose name is subscribed to the with that h/she, executed the same for the purposes therein contained.	cer, appeared, in instrument and acknowledged to me
In witness thereof, I have hereunto set my hand and official seal thisday of	
My commission expires	
Notary Public	
NOTE AND LOTS 1 AND 2 LEWIS AND CLARK SUBSTATION ADDITION YANKTON COUNTY, SOUTH DAKOTA	STOCKVE STOCKVE Strown team Strows St

2	2265 - Plat.dwg
CERTIFICATE OF STREET AUTHORITY	
The location of existing access roads abutting or approaches entering the State/County/Township Road, is hereby	,
approved. Any changes in the existing access shall require additional aproval.	
Approved thisday of	
State/County/Township Road Authority	
COUNTY PLANNING COMMISSION APPROVAL	
Approval of the final plan of LOTS 1 AND 2 OF LEWIS AND CLARK SUBSTATION ADDITION IN THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 15 AND IN THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 22, TOWNSHIP 93 NOI	RTH,
RANGE 56 WEST OF THE 5TH PRINCIPAL MERIDIAN, YANKTON COUNTY, SOUTH DAKOTA, is hereby granted by the Yankton County	
Planning Commission on thisday of	
Chair, County Planning Commission	
Yankton County, South Dakota	
COUNTY COMMISSION APPROVAL	
I hereby certify that the final plan of LOTS 1 AND 2 OF LEWIS AND CLARK SUBSTATION ADDITION IN THE SOUTHWEST QUARTER	
THE SOUTHWEST QUARTER OF SECTION 15 AND IN THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 22, TOWNSHIP 93 NORTH, RANGE 56 WEST OF THE 5TH PRINCIPAL MERIDIAN, YANKTON COUNTY, SOUTH DAKOTA was duly submitted to the Yankton Co	
Board of County Commissioners, and that after due consideration the Board approved said final plan at its meeting held o	
theday of	
Chairman, County Commission Yankton County, South Dakota	
Yankton County, South Dakota	
COUNTY AUDITOR CERTIFICATE	
I do hereby certify that the above certificate of approval is true and correct including the signature theron.	
Dated thisday of	
County Auditor	
Yankton County, South Dakota	l. li
DIRECTOR OF EQUALIZATION	
I, the Director of Equalization of Yankton County, South Dakota, do hereby certify that a copy of the above final plar	has
been filed at my office.	
Dated thisday of	- 1
Director of Equalization Yankton County, South Dakota	
oounty, oodan baketa	
COUNTY TREASURER CERTIFICATE	
I, Treasurer of Yankton County, South Dakota, hereby certify that all taxes which are liens upon any land shown in th	e
above plat as shown by the records of my office, have been paid in full.	
Dated thisday of	
Treasurer Yankton County, South Dakota	
REGISTER OF DEEDS	
Filed for record thisday of,, at O'clock,M., and recorded in book of plats on page	
Desister of Deads	
Register of Deeds Yankton County, South Dakota	
	2
LOTS 1 AND 2	
유 📲 🛛 🖉 LEWIS AND CLARK SUBSTATION ADDITION	
မ်းခြင်းခြင်းခြင်းခြင်းခြင်းခြင်းခြင်းခြင	j l

Variance, Conditional Use and Rezoning Application CUP-2023-88 Applicant

Fees Paid \$300.00

Created January 27, 2023

Number CUP-2023-88

09.015.300.200 | East River Electric Power Cooperative, Inc. | 206 S DEER BLVD, Yankton, 57078, , SD, Submitted by Jerae M. Wire on 1/27/2023

		-39		
			23.25	
	C - 4			
6.627				
	244			
	134			

Applicant

Jerae Wire

Jerae Wire

605-256-8269

jwire@eastriver.coop

Parcel search Completed On 1/27/2023 12:57 PM EST by Jerae M. Wire

+



Address	City	OwnerName
		HEINE FARMS (D)

Acres 60.000

Powered by Esri

09.015.300.200

Earthstar Geographics ParcellD

Draft Building Permit Completed On 1/27/2023 1:38 PM EST by Jerae M. Wire

Upload Draft Building Permit 🖲

Lewis Clark Sub - Stamped.pdf

Lewis Clark Sub Stamped Tower Foundation Designs.pdf

Submit Completed On 1/27/2023 1:39 PM EST by Jerae M. Wire

A notification sign shall be posted on the property upon which action is pending at least seven (7) days prior to the hearing date. Such signs shall be placed along all the property's road frontage so as to be visible from the road. If a property does not have a road frontage, then such signs shall be placed upon the closest available right-of-way and upon the property. Said signs shall not be less than one hundred and eighty seven (187) square inches in size. It shall be unlawful for any person to remove, mutilate, destroy or change such posted notice prior to such hearings.

Please pick the sign up from the zoning office on or before eight (8) days prior to the meeting.

Please check the box to confirm you have read and agree to the notices above.

Signature

LOO MARE

Date 1/27/2023

Application Submitted Successfully Completed On 1/27/2023 1:39 PM EST by Jerae M. Wire Your application has been submitted for review. Thank you. Please click next at the bottom to continue. Thank you

Request Information Completed On 1/27/2023 1:42 PM EST by bconkling

Type of Request

Conditional Use

Fee

\$300.00

Reason for Request

To install a 60' communication tower on the property owned by East River Electric for internal only system communications for our subs

List Specific Hardships

This SCADA communication tower is an essential accessory to our substation for both monitoring and controlling functions.

Applicant Information

Are you the owner of the property?

Yes

Applicant Name

Jerae Wire

Applicant Address 211 S. Harth Ave., Madison, SD 57042

Applicant Phone 6052568269

Owner Information

Owner Name

East River Electric Power Cooperative, Inc.

Owner Address

211 S. Harth Ave., Madison, SD 57042

Owner Phone Number

6052568269

Property Information

Parcel ID Number

09.015.300.200

Legal Description

S60 ACRES SW4

Site Address

206 S DEER BLVD, Yankton, 57078

City

Zip

Section-Township-Range

15-93-56

Zoning District

Zoning Description

Existing Use of Property

Site Plan Completed On 1/27/2023 1:45 PM EST by bconkling

Map - Mark the location of structures and other necessary information.

+

3/7



Earthstar Geographics

Powered by Esri

Describe the location and use of adjacent structures

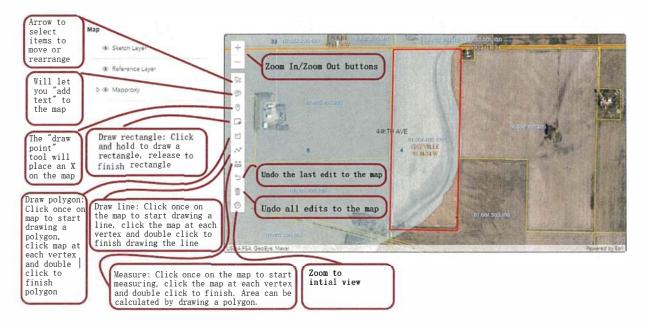
The tower location will be 36'-7" from our south site fence and 16' from our west site fence. Our site fence will be set back 50' from the right of way line on the south side of the property and 80' from the west ROW line.

146' from South Deer BIVD center line

337-7" from our south property line

Upload Site Plan and/or additional plans and documents

East River Plat.pdf



Planning Review Completed On 1/27/2023 1:49 PM EST by bconkling

Continue with application

Continue

Describe what the applicant is requesting

Applicant wishes to erect a 60' tower for internal communications with their substation, which is a permitted use.

Planning Commission Code Reference

Section 707

Other Planning Commission Code Reference

2503

Board of Adjustment Code Reference

Section 707

Other Board of Adjustment Code Reference 0

2503

Please confirm the zoning provided by the applicant. If zoning is incorrect, please enter the correct zoning. It is this field that is printed on the final form to avoid applicant/system error. The correct zoning must be entered.

Zoning Classification 0

R2

Wave Fee

Notes 0

Director Review Completed On 1/27/2023 2:04 PM EST by gvetter

Zoning Director Review

Approve

Payment Completed On 2/1/2023 10:45 AM EST by bconkling

Fees Paid

 Fee Name
 Recipient
 Amount

 Fee
 Planning and Zoning
 \$300.00

Confirmation Data

Payment MethodOnlineConfirmation Number213758068Amount Paid\$300.00

VIEW RECEIPT

PC Prep Completed On 2/1/2023 10:47 AM EST by bconkling

Planning Commission Meeting

Planning Commission Meeting Date and Time

March 14th 2023, 7:05 pm CST

Letters to be mailed 10 days prior to the public meeting: 03/04/2023 8:05 PM

Additional instructions for PC email

Return the affidavit 8 days prior to the public meeting: 03/06/2023 8:05 PM

Place your zoning action sign 7 days prior to the public meeting: 03/07/2023 8:05 PM

Date to send email to applicant

02/27/2023

Upload PC Mailing Labels

er labels modified.pdf

Upload PC Affidavit of Mailing

3 Mailing affidavit 1320.pdf

Upload PC Notification Letter

ER Electric NOT Letter.pdf

Upload PC Newspaper Publication

Legals 3-14-2023.pdf

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December 5, 2022

Paul Lambert East River Electric Power Coop P.O. Box 227 Madison, SD 57042

Subject:60' Ehresmann Engineering W2400 Stub TowerSite:Lewis & Clark SubLocation:Yankton County, SDEEI JO#:112740

As requested, we have designed and can furnish a 60' Ehresmann Engineering W2400 stub tower to be located in Yankton County, SD. The site will be called Lewis & Clark Sub.

Approximate Coordinates: 42-51-57 N 97-27-20 W

The stub tower will be designed as follows:

- In accordance with the Telecommunications Industry Association TIA-222-G Standard
- 90 mph wind with no ice (Vasd)
- Vult = 116 mph wind
- 50 mph wind with 3/4" ice (Vasd)
- 60 mph wind with no ice (service)
- Structure Class II
- Exposure Category C
- Topographic Category 1

Design loading will be included as outlined on stamped drawing #112740C1.

This tower design standard takes into account several safety factors including load factors and steel strength capacities. Therefore, it is highly unlikely that the tower will fail structurally in a wind event where the design wind speed is exceeded within the range of built-in safety factors.

Should the wind speed increase beyond the capacity of the built-in safety factors to the point of failure of one or more structural elements, the most likely location of failure would be within one of the tower sections. For the Lewis & Clark Sub tower this would most likely be in the section from 30' to 40' which is the highest stressed area of the tower. This would result in a buckling mode, where the steel bends beyond its elastic limit (the point where the section does not return to its normal shape when the wind load is removed).

During this local buckling, the tower will buckle at the location of the highest combined stress ratio and "fold over" onto the portion below. Therefore, this would most likely cause the proposed Lewis & Clark Sub tower to collapse upon itself (i.e. within a radius of 0' from the base of the tower).

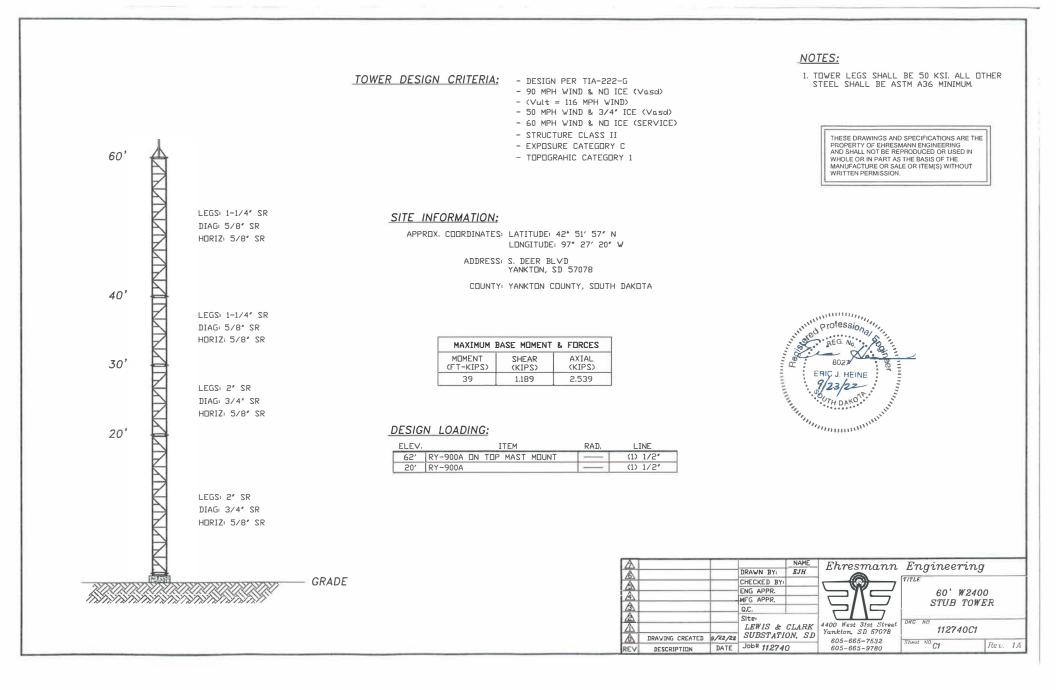
Please note, all opinions outlined in this letter are valid only if an Ehresmann Engineering tower is furnished and installed.

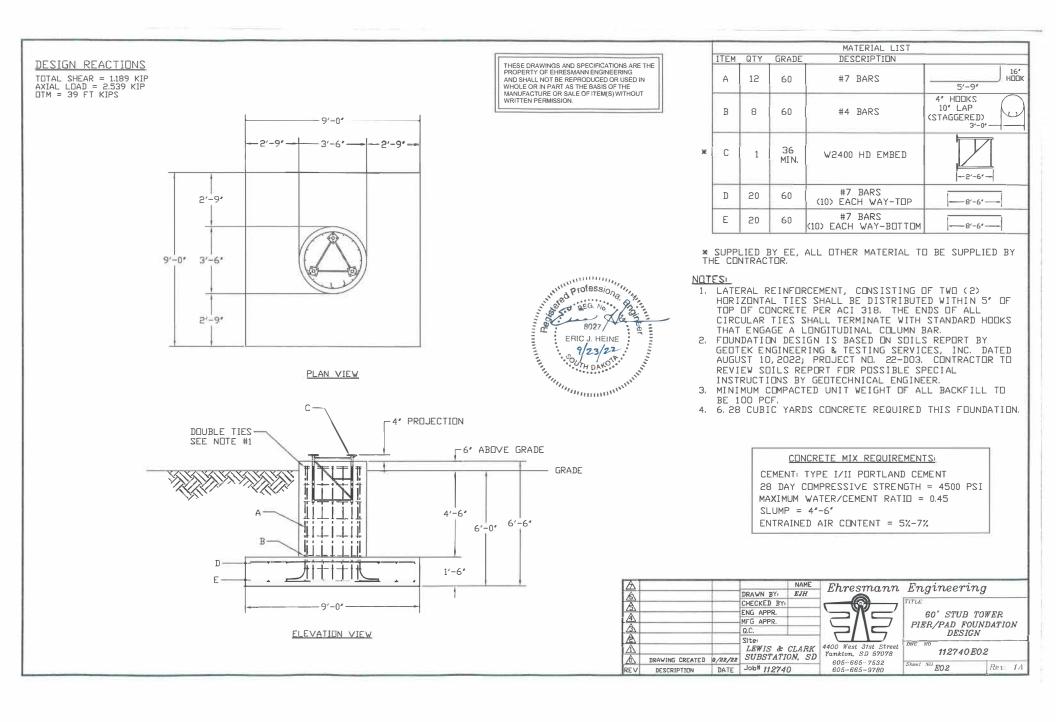
If you have any questions, please feel free to contact us.

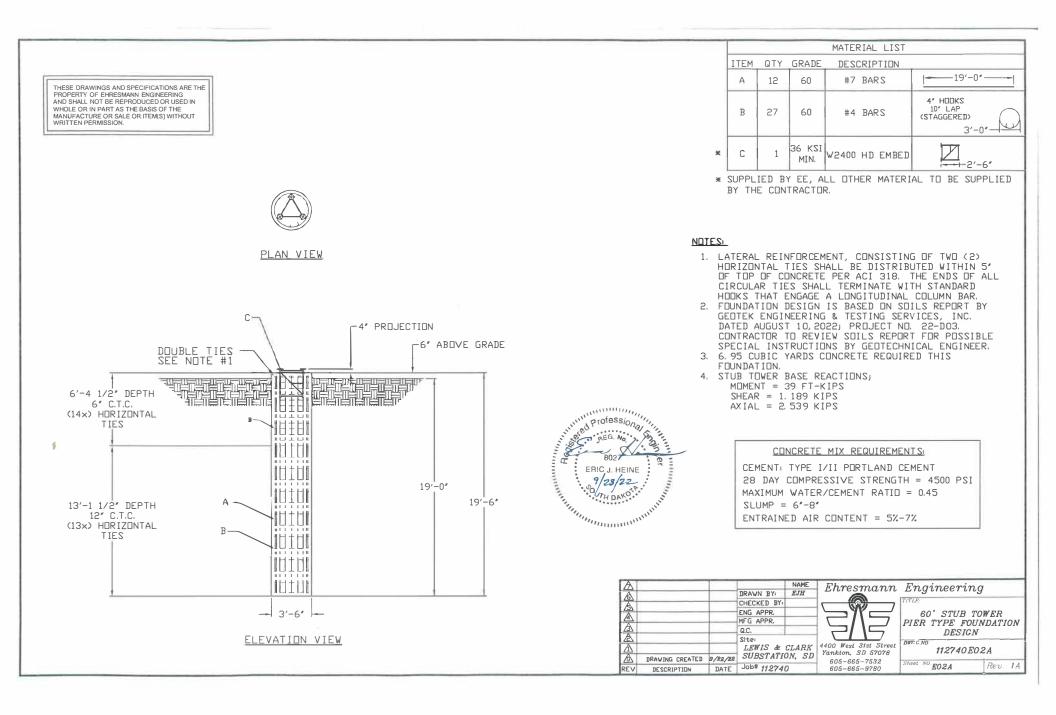
Regards,



Eric Heine, P.E.







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GENERAL:

Ehresmann Englneering (EE) designs and manufactures steel towers/poles and tower components to the most stringent industry standards, and uses the highest quality materials. However, certain hazards are inherent in tower work. For this reason, it is imperative that erection of towers and installation of tower components be accomplished In a safe and workmanlike manner, and only by experienced and professional contractors. Unless the customer specifies otherwise in writing, or unless otherwise noted in our design documents or on our installation drawings, design of and/or fabrication of items by Ehresmann Engineering shall meet the conditions outlined in these notes.

All tower designs and/or work shall be in accordance with TIA-222-G, Structural Standards for Steel Antenna Tower and Antenna Supporting Structures or as otherwise specified In writing by the customer.

2. Purchasers shall verify the installation is in conformance with all local, state, and federal requirements. This also includes requirements for obstruction marking and lighting. 3. If towers, tower components, mounts, foundations or modification materials are not installed in accordance with Ehresmann Engineering installation drawings and specifications, then all designs are considered invalid, and EE disclaims any responsibility for said design and/or certification. 4. The purchaser shall be responsible to inspect condition of

underground anchors prior to work on towers, and to furnish any and all solls reports, where regulred. 5. All items must be inventoried at the time of delivery to the job site/storage facility. Any shortages reported after this delivery will be the responsibility of the Contractor/Owner.

6. Any problems that occur with scheduling, transportation, delivery, foundation installation, erection or any items furnished by EE must be reported immediately to allow EE time to take corrective measures. EE will make every effort to repair/replace necessary items in an expedited manner and/or will pursue corrective measures in the most economical way possible at our discretion. However, under no circumstances will EE pay for or be responsible for any down time or

expenses expenses incurred due to down time. 7. EE will make every effort to deliver materials at the requested time. However, we cannot and will not be responsible for delays caused by breakdowns, weather and/or responsible factors out of our control once the materials have left our facility. We strongly suggest that cranes, tower crews, etc... not be scheduled until delivery is verified to be on time. EE will not be responsible for any costs incurred due to these possible delays.

8. Any and all permits, licenses, or payment of taxes required for construction are the sole responsibility of the purchaser. 9. Manufacturer Assistance: Contractors / Erectors may

contact Ehresmann Engineering at (605) 665-7522 for questions on design, materials, or installation regarding Items furnished by Ehresmann Engineering.

10. Ehresmann Engineering is available, upon request, to supervise installation and/or completion of modifications, or to provide on-site inspection after project completion.

**Please also reference site specific design documents and drawings for additional notes.

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Anchor Rod Tlahtening

Ther to placing anchor rods in the concrete, it is recommended that an anchor rod rotation capacity test be run with at least one anchor rod. This test may be run in a Skidmore-Wilhelm device or in a mockup of the base plate using a small piece of plate with one hole of equivalent grade, thickness, and finish. The test consists of steps 2 through 12 as outlined below and adapted as necessary for the mock set-up. It is recommended that the nut be rotated at least to the required rotation as alven in step 11. After the test, the nuts should be removed and all threads (rod and nut) inspected for damage. Once the anchor rod is removed from the test plate, the nuts shall again be turned onto the rod well past the location of the leveling with no cheater bar. The threads are considered damaged if more than minimal effort is required to turn the nut. Please note that nuts should be turned onto ALL anchor rods and backed of with minimal effort as outlined above to verify threads of ALL anchor rods and nuts prior to placement in concrete.

Recommended Steps for Anchor Rod Tightening

 Verify proper position of anchor rods.
 Verify that all nuts can be turned onto the rods well past 2. Verry that all huts can be turned onto the rods well past the elevation of the bottom of the leveling nut and backed off by one worker using an ordinary wrench without a cheater bar. 3. If threads of anchor rods were lubricated more than 24. hours before placing the leveling nut or have been wet since they were lubricated, the exposed threads of the anchor rods should be relubricated (Beeswax and tollet-ring wax have been shown to provide good lubrication).

4. Place leveling nuts on anchor rods and level.

Place leveling nut washers.

6, Set pole or tower leas,

Plumb pole or legs and/or level base plates.

Place top nut washers. Threads and bearing surfaces of the top nuts should be lubricated, placed and tightened to the snug-tight condition in star pattern. Reference TABLE 1 for snug-tight torque

values. 10. Tighten leveling nuts to the snug-condition (as outlined for top nuts) in a star pattern.

Top nutsy in a star pattern. 11. Mark the reference position of the top nut in the snug-tight condition with a suitable marking on one flat with a corresponding reference mark on the base plate at each bolt. Top nuts should be turned in increments in a star pattern (at least two full tightening cycles) to the appropriate nut rotation specified below

Anchor Rod Dlameter In.	Nut Rotatio	on from Snua-Tlah	t Condition
less than 1 1/2'		1/3 turn	
greater than or equal to 1 1/2		1/6 turn	

12. A torque wrench should be used to verify that a torque at least equal to the computed verification torque Tv, is required to additionally tighten the leveling nuts and the top nuts. Reference TABLE 1 for verification torque values. An inability to achieve this torque should be interpreted to indicate that the threads have stripped and should be reported to the Engineer of Record.

13. Locking nuts are to be installed over all top nuts when tightening is completed.

TABLE 1						
ANCHOR ROD DIAMETER (INCHES)	SNUG-TIGHT TORQUE (FT-LBS)	VERIFICATION TORQUE (FT-LBS)				
3/4	38-56	188				
1	91-136	454				
1 1/4	182-272	908				
1 1/2	316-474	1581				
1 3/4	499-748	2494				
2	750-1125	3750				
2 1/4	921-1382	4607				

VALUES AS SHOWN IN TABLE 1 ARE BASED ON ASTM F1554 GRADE 105 ANCHOR RODS WITH MINIMUM ULTIMATE TENSILE STRENGTH OF 125 KSI FOR ROD DIAMETERS UP TO 2' AND ASTM A615 GR. 75 ANCHOR RODS WITH MINIMUM ULTIMATE TENSILE STRENGTH OF 105 KSI FOR 2 1/44 ANCHOR RODS.

Erection_/_Installation When installing items provided by Ehresmann Engineering, the contractor (person performing the erection or modification) shall comply with the following

1. All structural work shall be performed in relatively calm weather, with wind velocities not exceeding 15 MPH at any height of the tower. Additionally it is recommended that work be completed in accordance with ANSI/TIA-322 and ANSI/ASSE A10.48

2. All structural work shall be performed by a competent and reputable contractor with experience in similar tower work. 3. Dur drawings indicate the major operations to be performed, but do not show every field condition that may be encountered. Prior to beginning work, the contractor should survey the Job thoroughly to eliminate future field problems.

4. It is the contractor's sole responsibility to determine the erection procedure and sequence to insure the stability and safety of the tower and adequacy of temporary or incomplete connections during construction.

5. All nuts for bearing type connections shall be tightened to a 'snug tight' condition as defined by AISC. All nuts for direct tension/fully pre-tensioned or slp critical connections shall be tightened per the 'turn-of-the-nut'method in OCCORDORCE with AISC

all practices and procedures used during assembly, installation and erection work required on the tower or foundations do

8. The contractor shall not correct any errors in manufacturing or design without special permission and written instructions from Ehresmann Engineering, This means straightening, relocation or reaming of bolt holes, drifting or any other application of force to make the members fit. (This restriction does not apply to diagonal members designed for initial tension or specific draw.) The contractor shall immediately notify Ehresmann Engineering through the appropriate channels to effect correction.

Engineering of any material which is damaged during erection or installation. The contractor shall not correct or substitute any member damaged during installation without written consent and instructions from Ehresmann Engineering,

forces on the tower or on modification material during Installation. Tower member design does not include stresses due to erection since erection equipment and conditions are unknown. Our design assumes that the services of competent and qualified personnel will be utilized to develop prope procedures and rigging plans. Dur design also assumes that competent and qualified personnel will be hired to perform the

aalvanizing. Under no circumstances shall the torching of holes be allowed.

Do

Concrete & Foundation Installation

1. All rebar shall have 3' minimum cover, unless specified otherwise, and shall conform to ASTM A615. Rebar grade to be as specified on site drawings.

2. The and secure all rebar and anchor bolts/shafts before placing concrete,

3. Hook length as specified for vertical bars is from back side of bend. Minimum straight length of hook after bend shall be 12x bor diameter.

4. Bending of rebar to be in accordance with ACI-318 latest edition.

5. Sides of excavation may need to be braced or sloped back as required for stability and in accordance with all applicable safety regulations.

6. Base of excavation shall be clean and free of all debris 7. All excavation, backfill and soll compaction to be completed in accordance with Geotechnical Engineer's recommendations. However, compacted density of all backfill must meet minimum unit weight as specified on site drawings,

8. Attention shall be given to final site drainage and compaction of the fill placed around the foundation to minimize surface water Infiltration around the foundation. 9. Concrete strength and mix values to be listed on site

specific foundation drawings. Alternate values may be acceptable and could be dependent on placement methods However, use of alternate values must be approved by EDR prior to installation. EE will not be responsible for any delays due to request for approval of alternate values. It is the Contractor's responsibility to allow adequate time for approval. 10. Use of water reducers may be required for some placement methods to achieve necessary slump and/or flow without exceeding maximum water/cement ratios. It is Contractor's responsibility to utilize proper mix to ensure proper placement of concrete for the method of placement chosen. 11. Exposed edges of all foundations to be chamfered 1' x 45*. 12. Use steel top and bottom anchor bolt templates provided by EE for proper anchor bolt spacing and placement. 13. All concrete work shall be in accordance with ACI 318 (Latest Edition). ACI specifications for 'Cold Weather' or 'Hot

Weather' concreting shall be followed as applicable.

<u>Structural Steel & Hardware</u> 1. All fabricated steel shall have a minimum yield strength of 36 ksl. Use of higher strength steel for some members/items will be noted in design documents or drawings as applicable. 2. All fabricated steel shall be hot dip galvanized per

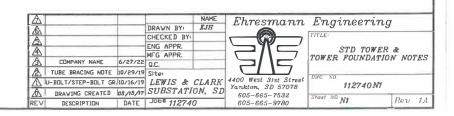
ASTM A123. 3. All structural fasteners shall be ASTM F3125 Gr. A325

unless specified otherwise. 4. U-Bolts to be ASTM A36, A572 Gr. 50, or A193 Gr. B7 depending on size and application. Reference site

specific drawings for additional details. 5. Step Bolts to be ASTM A449

All hardware shall be hot dip galvanized per ASTM All A153. 7. Welded connections shall conform to the latest

Related Constructions shall components of the latest revision of the American Welding Society, A.W.S. Di.I.
 All structural components shall be verified for proper assembly by the field crew prior to installation.



6. It shall be the contractor's responsibility to ensure that

not endanger the safety of any personnel nor the structural integrity of the tower. 7. The contractor shall use only safe and workmanlike

procedures when modifying a tower.

9. The contractor shall immediately notify Ehresmann

The contractor shall refrain from exerting excessive

work. 11. All field-punched holes shall be touched up with cold

noies be allowed. 12. All factory installed bracing placed within monopole tube sections is to remain in place until erection is complete. Dr not remove bracing without prior consultation with EE.

SPECIAL INSPECTION STATEMENT IN ACCORDANCE WITH IBC SECTION 1704. 3

VERIFICATION AND TESTING SHALL BE COMPLETED AS FOLLOWS:

REINFORCED CONCRETE CONSTRUCTION (TOWER FOUNDATION)

- VERIFY PROPER DIMENSIONS AND DEPTH OF FOUNDATION (INCLUDING DEPTH OF DRILLED HOLE PRIOR TO CONCRETE PLACEMENT IF APPLICABLE)
- INSPECTION OF REINFORCING STEEL TO INCLUDE VERIFICATION OF PROPER MATERIAL GRADE, QTY, SIZE AND PLACEMENT
- VERIFY PROJECTION LENGTH OF ANCHOR BOLTS ABOVE TOP OF CONCRETE PRIOR TO CONCRETE SETTING
- VERIFY USE OF APPROVED CONCRETE MIX DESIGN
- VERIFY PROPER CONCRETE SLUMP AND AIR CONTENT BY TESTING AT THE TIME FRESH CONCRETE IS SAMPLED FOR STRENGTH TESTS
- VERIFY PROPER PLACEMENT OF CONCRETE IN ACCORDANCE WITH APPROVED TECHNIQUES.
- VERIFY CONCRETE COMPRESSIVE STRENGTH BY MEANS OF STANDARD TEST CYLINDERS TO BE BROKE AT 7 DAYS AND 28 DAYS MINIMUM.

STRUCTURAL STEEL CONSTRUCTION (TOWER STRUCTURE)

INSPECTION OF HIGH-STRENGTH BOLTED CONNECTIONS

- VERIFY IDENTIFICATION MARKINGS/GRADE, QTY AND SIZE OF BOLTS, NUTS & WASHERS
- VISUALLY INSPECT SNUG-TIGHT BOLTED JOINTS TO VERIFY ALL PLIES IN CONTACT AND LOCK-WASHERS COMPRESSED
- VERIFY PROPER TIGHTENING OF PRETENSIONED CONNECTIONS USING TURN-OF-NUT METHOD WITH MATCHMARKING

STRUCTURAL DBSERVATION

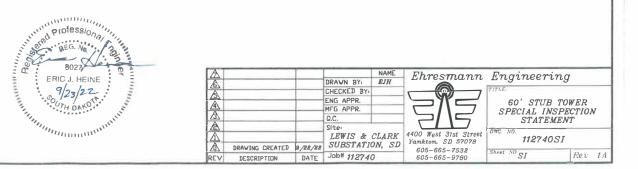
- VERIFY PROPER INSTALLATION/ERECTION OF TOWER PER DESIGN SPECIFICATIONS UPON COMPLETION OF INSTALLATION. VERIFICATION TO INCLUDE THE FOLLOWING:
 - ALL SECTIONS PROPERLY ASSEMBLED AND INSTALLED PER MANUFACTURER'S INSTALLATION DETAILS
 - STRUCTURE PLUMB IN ACCORDANCE WITH TIA-222

VERIFICATION OF ALL ITEMS AS DUTLINED ABOVE SHALL BE BASED ON DESIGN SPECIFICATIONS AND INSTALLATION DETAILS AS COMPLETED BY EHRESMANN ENGINEERING.

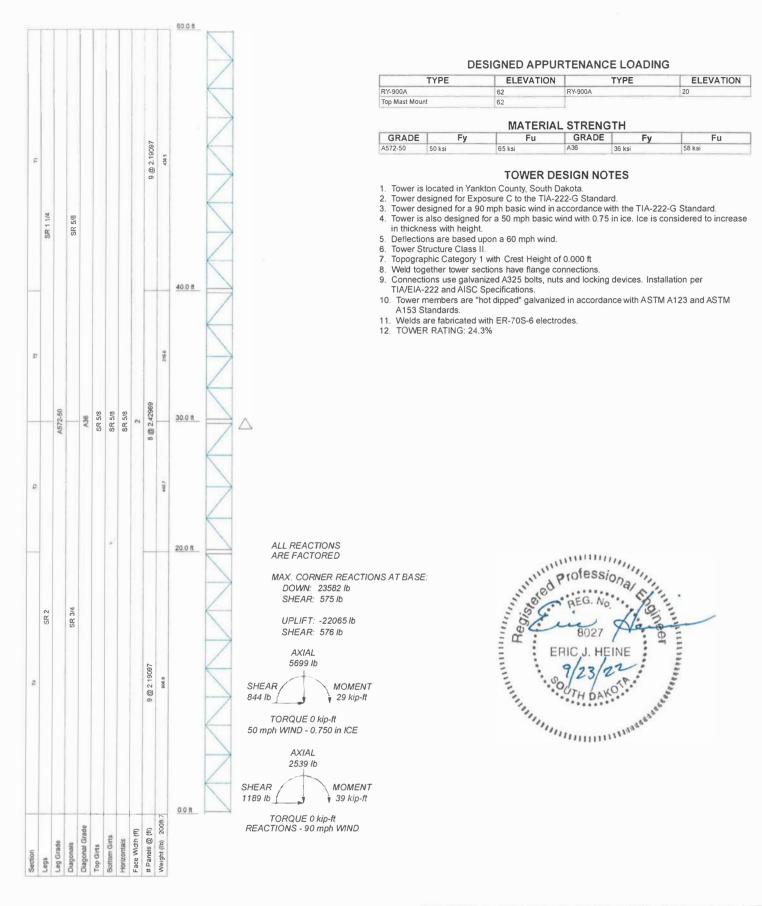
SPECIAL INSPECTOR SHALL IDENTIFY AND DOCUMENT RESULTS OF ALL INSPECTIONS AND MATERIAL TESTING AS OUTLINED, INSPECTION REPORTS SHALL BE SUBMITTED AS SOON AS POSSIBLE UPON COMPLETION OF INSPECTION BUT NO MORE THAN 5 WORKING DAYS UNLESS OTHERWISE AGREED BY PROJECT OWNER.

DEVIATION OR NON-COMPLIANCE SHALL BE CORRECTED BY CONTRACTOR. ANY DEVIATIONS NOT CORRECTED ARE TO BE CLEARLY IDENTIFIED IN FINAL REPORTS AND EHRESMANN ENGINEERING SHOULD BE NOTIFIED IMMEDIATELY FOR CONSULTATION.

THE PROJECT DWNER OR AN AGENT OF THE DWNER IS RESPONSIBLE FOR SCHEDULING AND FUNDING ALL SPECIAL INSPECTION SERVICES.



REINFORCED CONCRETE	CONTINUOUS	PERIODI
PIER OR PIER/PAD FOUNDATION		Х
DEEP PIER DRILLING (IF APPLICABLE)	X	
REINFORCING STEEL		X
CONCRETE PLACEMENT	X	
SAMPLING & TESTING		X
ANCHORS/BOLTS CAST IN CONCRETE		X
SDILS		X
STRUCTURAL STEEL		
HIGH-STRENGTH BOLTS		Х



Ehresmann Engineering	Job: LEWIS & CLA	ARK SUB, SD	- 112740
4400 W 31st St	Project: 60' W2400 ST	UB TOWER	
Yankton, SD 57078	Client: EREP	Drawn by: EH	App'd:
Phone: (605) 665-7532	Code: TIA-222-G	Date: 09/22/22	Scale: NTS
	Path:		Dwg No. E-1

tnxTower	Job	LEWIS & CLARK SUB, SD - 112740	Page 1 of 25
Ehresmann Engineering 4400 W 31st St	Project	60' W2400 STUB TOWER	Date 11:27:44 09/22/22
Yankton, SD 57078 Phone: (605) 665-7532 FAX: (605) 665-9780	Client	EREP	Designed by EH

Tower Input Data

The main tower is a 3x free standing tower with an overall height of 60.000 ft above the ground line.

The base of the tower is set at an elevation of 0.000 ft above the ground line.

The face width of the tower is 2.000 ft at the top and 2.000 ft at the base.

This tower is designed using the TIA-222-G standard.

The following design criteria apply:

Tower is located in Yankton County, South Dakota.

Basic wind speed of 90 mph.

Structure Class II.

Exposure Category C. Topographic Category 1.

Crest Height 0.000 ft.

Nominal ice thickness of 0.750 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 50 mph is used in combination with ice.

Temperature drop of 30 °F.

Deflections calculated using a wind speed of 60 mph.

Weld together tower sections have flange connections..

Connections use galvanized A325 bolts, nuts and locking devices. Installation per TIA/EIA-222 and AISC Specifications..

Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.. Welds are fabricated with ER-70S-6 electrodes..

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

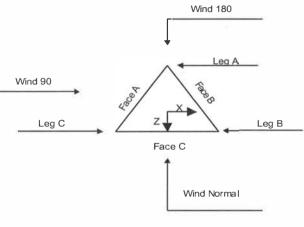
Stress ratio used in tower member design is 1.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

Consider Moments - Legs Distribute Leg Loads As Uniform Use ASCE 10 X-Brace Ly Rules Consider Moments - Horizontals Assume Legs Pinned Calculate Redundant Bracing Forces $\sqrt{}$ Consider Moments - Diagonals Assume Rigid Index Plate Ignore Redundant Members in FEA Use Moment Magnification Use Clear Spans For Wind Area \sqrt{SR} Leg Bolts Resist Compression Use Clear Spans For KL/r Use Code Stress Ratios $\sqrt{}$ All Leg Panels Have Same Allowable $\sqrt{}$ Use Code Safety Factors - Guys Retension Guys To Initial Tension Offset Girt At Foundation Bypass Mast Stability Checks Escalate Ice Consider Feed Line Torque √ Include Angle Block Shear Check Always Use Max Kz Use Azimuth Dish Coefficients Use Special Wind Profile Project Wind Area of Appurt. Use TIA-222-G Bracing Resist. Exemption Include Bolts In Member Capacity Autocalc Torque Arm Areas Use TIA-222-G Tension Splice Exemption $\sqrt{}$ Leg Bolts Are At Top Of Section Add IBC .6D+W Combination Poles Secondary Horizontal Braces Leg Sort Capacity Reports By Component Include Shear-Torsion Interaction Use Diamond Inner Bracing (4 Sided) Triangulate Diamond Inner Bracing Always Use Sub-Critical Flow SR Members Have Cut Ends Treat Feed Line Bundles As Cylinder Use Top Mounted Sockets √ SR Members Are Concentric Pole Without Linear Attachments Ignore KL/ry For 60 Deg. Angle Legs Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known

tnxTower	Job	LEWIS & CLARK SUB, SD - 112740	Page 2 of 25
Ehresmann Engineering 4400 W 31st St	Project	60' W2400 STUB TOWER	Date 11:27:44 09/22/22
Yankton, SD 57078 Phone: (605) 665-7532 FAX: (605) 665-9780	Client	EREP	Designed by EH



Triangular Tower

Tower Section Geometry

Tower	Tower	Assembly	Description	Section	Number	Section
Section	Elevation	Database		Width	of	Length
					Sections	-
	ft			ft		ft
T1	60.000-40.000			2.000	1	20.000
T2	40.000-30.000			2.000	1	10.000
Т3	30.000-20.000			2.000	1	10.000
T4	20.000-0.000			2.000	1	20.000

Tower Section Geometry (cont'd)

Tower	Tower	Diagonal	Bracing	Has	Has	Top Girt	Bottom Giri
Section	Elevation	Spacing	Type	K Brace	Horizontals	Offset	Offset
		1 0	<i></i>	End		55	55
	ft	ft		Panels		in	in
T1	60.000-40.000	2.191	K Brace Right	No	Yes	1.688	1.688
Т2	40.000-30.000	2.430	K Brace Right	No	Yes	1.688	1.688
Т3	30.000-20.000	2.430	K Brace Right	No	Yes	1.688	1.688
T4	20.000-0.000	2.191	K Brace Right	No	Yes	1.688	1.688

Tower Section Geometry (cont'd)

tnxTower	Job	LEWIS & CLARK SUB, SD - 112740	Page 3 of 25
Ehresmann Engineering 4400 W 31st St	Project	60' W2400 STUB TOWER	Date 11:27:44 09/22/22
Yankton, SD 57078 Phone: (605) 665-7532 FAX: (605) 665-9780	Client	EREP	Designed by EH

Tower	Leg	Leg	Leg	Diagonal	Diagonal	Diagonal
Elevation ft	Туре	Size	Grade	Туре	Size	Grade
Г1 60.000-40.000	Solid Round	1 1/4	A572-50	Solid Round	5/8	A36
			(50 ksi)			(36 ksi)
Г2 40.000-30.000	Solid Round	1 1/4	A572-50	Solid Round	5/8	A36
			(50 ksi)			(36 ksi)
3 30.000-20.000	Solid Round	2	A572-50	Solid Round	3/4	A36
			(50 ksi)			(36 ksi)
T4 20.000-0.000	Solid Round	2	A572-50	Solid Round	3/4	A36
			(50 ksi)			(36 ksi)

Tower Section Geometry (cont'd)

Tower	Top Girt	Top Girt	Top Girt	Bottom Girt	Bottom Girt	Bottom Girt	
Elevation ft	Туре	Size	Grade	Туре	Size	Grade	
Г1 60.000-40.000	Solid Round	5/8	A36 (36 ksi)	Solid Round	5/8	A36 (36 ksi)	
12 40.000-30.000	Solid Round	5/8	A36 (36 ksi)	Solid Round	5/8	A36 (36 ksi)	
ГЗ 30.000-20.000	Solid Round 5/8		A36 (36 ksi)	Solid Round	5/8	A36 (36 ksi)	
T4 20.000-0.000	Solid Round	5/8	A36 (36 ksi)	Solid Round	5/8	A36 (36 ksi)	

Tower Section Geometry (cont'd)

Tower	No.	Mid Girt	Mid Girt	Mid Girt	Horizontal	Horizontal	Horizontal
Elevation	of	Туре	Size	Grade	Type	Size	Grade
	Mid						
ft	Girts						
Γ1 60.000-40.000	None	Flat Bar		A36	Solid Round	5/8	A36
				(36 ksi)			(36 ksi)
Г2 40.000-30.000	None	Flat Bar		A36	Solid Round	5/8	A36
				(36 ksi)			(36 ksi)
ГЗ 30.000-20.000	None	Flat Bar		A36	Solid Round	5/8	A36
				(36 ksi)			(36 ksi)
T4 20.000-0.000	None	Flat Bar		A36	Solid Round	5/8	A36
				(36 ksi)			(36 ksi)

Tower Section Geometry (cont'd)										
Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A _r	Weight Mult.	Stitch Bolt Spacing	Stitch Bolt Spacing	Stitch Bolt Spacing	
ſt	ft ²	in					Diagonals in	Horizontals in	Redundants in	
T1	0.000	0.000	A36	1	1	1.1	36.000	36.000	36.000	

tnxTower	Job	LEWIS & CLARK SUB, SD - 112740	Page 4 of 25
Ehresmann Engineering 4400 W 31st St	Project	60' W2400 STUB TOWER	Date 11:27:44 09/22/22
Yankton, SD 57078 Phone: (605) 665-7532 FAX: (605) 665-9780	Client	EREP	Designed by EH

				the second se					the second se
Tower	Gusset	Gusset	Gusset Grade	Adjust. Factor	Adjust.	Weight Mult.	Double Angle	Double Angle	Double Angle
Elevation	Area	Thickness		A_f	Factor		Stitch Bolt	Stitch Bolt	Stitch Bolt
	(per face)				A_r		Spacing	Spacing	Spacing
							Diagonals	Horizontals	Redundants
ft	ft ²	in					in	in	in
60.000-40.000			(36 ksi)						
T2	0.000	0.000	A36	1	1	1.1	36.000	36.000	36.000
40.000-30.000			(36 ksi)						
T3	0.000	0.000	A36	1	1	1.1	36.000	36.000	36.000
30.000-20.000			(36 ksi)						
T4	0.000	0.000	A36	1	1	1.1	36.000	36.000	36.000
20.000-0.000			(36 ksi)						

Tower Section Geometry (cont'd)

						K Fac	ctors'			
Tower	Calc	Calc	Legs	Х	K	Single	Girts	Horiz.	Sec.	Inner
Elevation	K	Κ		Brace	Brace	Diags			Horiz.	Brace
	Single	Solid		Diags	Diags	-				
	Angles	Rounds		X	X	X	Х	Х	Х	Х
ft	-			Y	Y	Y	Y	Y	Y	Y
T1	No	Yes	1	1	1	1	1	1	1	1
60.000-40.000				1	1	1	1	1	1	1
T2	No	Yes	1	1	1	1	1	1	1	1
40.000-30.000				1	1	1	1	1	1	1
Т3	No	Yes	1	1	1	1	1	1	1	1
30.000-20.000				1	1	1	1	1	1	1
T4	No	Yes	1	1	1	1	1	1	1	1
20.000-0.000				1	1	1	1	1	1	1

¹Note: K factors are applied to member segment lengths. K-braces without inner supporting members will have the K factor in the out-of-plane direction applied to the overall length.

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Net Width U		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 60.000-40.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
T2 40.000-30.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
T3 30.000-20.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
T4 20.000-0.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75

Job

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Project		Date
	60' W2400 STUB TOWER	11:27:44 09/22/22
Client		Designed by

EΗ

EREP

Ehresmann Engineering 4400 W 31st St

Yankton, SD 57078 Phone: (605) 665-7532 FAX: (605) 665-9780

Tower	Redund	ant	Reduna	lant	Redund	ant	Redun	dant	Redundan	t Vertical	Redundo	int Hip	Redunda	int Hip
Elevation	Horizor	ıtal	Diago	nal	Sub-Diag	gonal	Sub-Hor	rizontal					Diagonal	
ft														
	Net Width	U	Net Width	U	Net Width	U	Net	U	Net	U	Net	U	Net	U
	Deduct		Deduct		Deduct		Width		Width		Width		Width	
	in		in		in		Deduct		Deduct		Deduct		Deduct	
							in		in		in		in	
T1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
60.000-40.000														
T2	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
40.000-30.000														
T3	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
30.000-20.000														
T4	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
20.000-0.000														

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Connection Type			ıal	Top G	irt	Bottom	Girt	Mid G	irt	Long Hori	zontal	Short Hori	zontal	
		Bolt Size	No.	Bolt Size	No.	Bolt Size	No.	Bolt Size	No.	Bolt Size	No.	Bolt Size	No.	Bolt Size	No.
		in		in		in		in		in		in		in	_
T1	Flange	0.625	4	0.000	0	0.000	0	0.000	0	0.625	0	0.000	0	0.625	0
60.000-40.000		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T2	Flange	0.625	4	0.000	0	0.000	0	0.000	0	0.625	0	0.000	0	0.625	0
40.000-30.000		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T3	Flange	0.625	4	0.000	0	0.000	0	0.000	0	0.625	0	0.000	0	0.625	0
30.000-20.000		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T4	Flange	0.625	4	0.000	0	0.000	0	0.000	0	0.625	0	0.000	0	0.625	0
20.000-0.000		A325N		A325N		A325N		A325N		A325N		A325N		A325N	

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or	Allow Shield	Exclude From	Component Type	Placement	Total Number	Number Per Row	Clear Spacing	Width or Diameter	Perimeter	Weight
	Leg	Smeiu	Torque	Type	ft	Mimber	1 67 1100	in	in	in	klf
	8		Calculation		J-						
LDF4-50A (1/2	А	No	Yes	Ar (CaAa)	60.000 - 0.000	1	1	2.370	0.630		0.000
FOAM)								0.630			
Safety Line 3/8	А	No	Yes	Ar (CaAa)	60.000 - 0.000	1	1	0.375	0.375		0.000
LDF4-50A (1/2	А	No	Yes	Ar (CaAa)	20.000 - 0.000	1	1	2.370	0.630		0.000
FOAM)								0.630			

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation	Face	A_R	A_F	C _A A _A In Face	$C_A A_A$ Out Face	Weight	
	ft		ft ²	ft ²	$\int t^2$	$\int t^2$	lb	
T1	60.000-40.000	А	0.000	0.000	2.010	0.000	7.400	
		В	0.000	0.000	0.000	0.000	0.000	
		С	0.000	0.000	0.000	0.000	0.000	

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Tower	Tower	Face	4	4	$C_A A_A$	$C_A A_A$	Weight
		ruce	A_R	A_F			weigni
Section	Elevation				In Face	Out Face	
	ſt		ft ²	ft^2	ft ²	ft ²	lb
T2	40.000-30.000	А	0.000	0.000	1.005	0.000	3.700
		В	0.000	0.000	0.000	0.000	0.000
		С	0.000	0.000	0.000	0.000	0.000
T3	30.000-20.000	А	0.000	0.000	1.005	0.000	3.700
		В	0.000	0.000	0.000	0.000	0.000
		С	0.000	0.000	0.000	0.000	0.000
T4	20.000-0.000	А	0.000	0.000	3.270	0.000	10.400
		В	0.000	0.000	0.000	0.000	0.000
		С	0.000	0.000	0.000	0.000	0.000

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower	Tower	Face	Ice	A_R	A_F	$C_A A_A$	$C_A A_A$	Weight
Section	Elevation	or	Thickness			In Face	Out Face	
	<u>ft</u>	Leg	in	ft ²	ft ²	ft ²	ft^2	lb
T1	60.000-40.000	Ā	1.564	0.000	0.000	14.519	0.000	165.282
		В		0.000	0.000	0.000	0.000	0.000
		С		0.000	0.000	0.000	0.000	0.000
T2	40.000-30.000	А	1.509	0.000	0.000	7.040	0.000	77.855
		В		0.000	0.000	0.000	0.000	0.000
		С		0.000	0.000	0.000	0.000	0.000
T3	30.000-20.000	А	1.459	0.000	0.000	6.841	0.000	73.622
		В		0.000	0.000	0.000	0.000	0.000
		С		0.000	0.000	0.000	0.000	0.000
T4	20.000-0.000	А	1.331	0.000	0.000	19.244	0.000	193.481
		В		0.000	0.000	0.000	0.000	0.000
		С		0.000	0.000	0.000	0.000	0.000

Shielding Factor Ka

1	Tower	Feed Line	Description	Feed Line	Ka	Ka
	Section	Record No.		Segment Elev.	No Ice	Ice
1	T1	1	LDF4-50A (1/2 FOAM)	40.00 - 60.00	1.0000	1.0000
	T1	2	Safety Line 3/8	40.00 - 60.00	1.0000	1.0000
	T2	1	LDF4-50A (1/2 FOAM)	30.00 - 40.00	1.0000	1.0000
	T2	2	Safety Line 3/8	30.00 - 40.00	1.0000	1.0000
	Т3	1	LDF4-50A (1/2 FOAM)	20.00 - 30.00	1.0000	1.0000
	T3	2	Safety Line 3/8	20.00 - 30.00	1.0000	1.0000
	T4	1	LDF4-50A (1/2 FOAM)	0.00 - 20.00	1.0000	1.0000
	T4	2	Safety Line 3/8	0.00 - 20.00	1.0000	1.0000
l	T4	3	LDF4-50A (1/2 FOAM)	0.00 - 20.00	1.0000	1.0000

Discrete	Tower	Loads	

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	_					_			
Description	Face	Offset	Offsets:	Azimuth	Placement		$C_A A_A$	$C_A A_A$	Weigh
	or	Туре	Horz	Adjustment			Front	Side	
	Leg		Lateral						
			Vert						
			ft	0	ft		ft ²	ft ²	lb
			ft		5		5	5	
			ſt						
RY-900A	А	From	0.000	0.0000	62.000	No Ice	2.780	2.780	16.00
		Centroid-Fa	0.000			1/2" Ice	5.004	5.004	20.80
		ce	0.000			1" Ice	7.228	7.228	25.60
Top Mast Mount	А	From	0.000	0.0000	62.000	No Ice	2.590	2.590	50.00
-		Centroid-Fa	0.000			1/2" Ice	3.880	3.880	77.00
		ce	0.000			1" Ice	5.170	5.170	104.00
RY-900A	А	From Leg	0.000	0.0000	20.000	No Ice	2.780	2.780	16.00
			0.000			1/2" Ice	5.004	5.004	20.80
			0.000			1" Ice	7.228	7.228	25.60

Tower Pressures - No Ice

 $G_H = 0.850$

Section	Z	Kz	q_z	A_G	F	A_F	A_R	Aleg	Leg	$C_A A_A$	$C_A A_A$
Elevation					а		· /		%	In	Out
					С					Face	Face
ft	ft		ksf	ft^2	е	ft ²	ft ²	ft^2		ft^2	ft ²
T1	50.000	1.094	0.019	42.083	Α	0.000	6.472	4.167	64.38	2.010	0.000
60.000-40.000					В	0.000	6.472		64.38	0.000	0.000
					C	0.000	6.472		64.38	0.000	0.000
T2	35.000	1.015	0.018	21.042	Α	0.000	3.199	2.083	65.13	1.005	0.000
40.000-30.000					В	0.000	3.199		65.13	0.000	0.000
					C	0.000	3.199		65.13	0.000	0.000
T3	25.000	0.945	0.017	21.667	Α	0.000	4.532	3.333	73.55	1.005	0.000
30.000-20.000					В	0.000	4.532		73.55	0.000	0.000
					C	0.000	4.532		73.55	0.000	0.000
T4	10.000	0.85	0.015	43.333	A	0.000	9.151	6.667	72.85	3.270	0.000
20.000-0.000					В	0.000	9.151		72.85	0.000	0.000
					С	0.000	9.151		72.85	0.000	0.000

Tower Pressure - With Ice

Section	Ζ	Kz	q_z	tz	A_G	F	A_F	A_R	Aleg	Leg	$C_A A_A$	$C_A A_A$
Elevation						а				%	In	Out
						С					Face	Face
ft	ft		ksf	in	ft ²	е	ft^2	ft^2	ft^2		ft^2	ft ²
T1	50.000	1.094	0.006	1.564	47.295	Α	0.000	28.433	14.591	51.32	14.519	0.000
60.000-40.000					0	В	0.000	28.433		51.32	0.000	0.000
						C	0.000	28.433		51.32	0.000	0.000
T2	35.000	1.015	0.006	1.509	23.556	Α	0.000	13.612	7.113	52.25	7.040	0.000
40.000-30.000						В	0.000	13.612		52.25	0.000	0.000
						C	0.000	13.612		52.25	0.000	0.000
T3	25.000	0.945	0.005	1.459	24.098	Α	0.000	14.430	8.196	56.80	6.841	0.000
30.000-20.000						В	0.000	14.430		56.80	0.000	0.000

 $G_H = 0.850$

tnxTower

Ehresmann Engineering 4400 W 31st St Yankton, SD 57078 Phone: (605) 665-7532 FAX: (605) 665-9780

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Section Elevation	Z	Kz	qz	tz	A _G	F a	A_F	A_R	A _{leg}	Leg %	$C_A A_A$ In	$C_A A_A$ Out
ft	ft		ksf	in	ft ²	с е	ft ²	ft ²	ft ²	/•	Face ft ²	Face ft ²
T4 20.000-0.000	10.000	0.85	0.005	1.331	47.771	C A B C	0.000 0.000 0.000 0.000	14.430 27.523 27.523 27.523	15.541	56.80 56.47 56.47 56.47	0.000 19.244 0.000 0.000	0.000

Tower Pressure - Service

$G_H = 0.850$

Section	Ζ	Kz	q_z	AG	F	A_F	A_R	Aleg	Leg	$C_A A_A$	$C_A A_A$
Elevation					a				%	In	Out
		. · · ·			С					Face	Face
ft	ft		ksf	$-ft^2$	е	ft ²	ft ²	ft^2		ft^2	ft ²
T1	50.000	1.094	0.009	42.083	Α	0.000	6.472	4.167	64.38	2.010	0.000
60.000-40.000					B	0.000	6.472		64.38	0.000	0.000
					C	0.000	6.472		64.38	0.000	0.000
T2	35.000	1.015	0.008	21.042	A	0.000	3.199	2.083	65.13	1.005	0.000
40.000-30.000					B	0.000	3.199		65.13	0.000	0.000
		H 1			C	0.000	3.199		65.13	0.000	0.000
T3	25.000	0.945	0.007	21.667	A	0.000	4.532	3.333	73.55	1.005	0.000
30.000-20.000					B	0.000	4.532		73.55	0.000	0.000
					C	0.000	4.532		73.55	0.000	0.000
T4	10.000	0.85	0.007	43.333	A	0.000	9.151	6.667	72.85	3.270	0.000
20.000-0.000					В	0.000	9.151		72.85	0.000	0.000
					C	0.000	9.151		72.85	0.000	0.000

Section	Add	Self	F	е	C_F	q_z	D_F	D_R	AE	F	w	Ctrl.
Elevation	Weight	Weight	а									Face
			С			ksf						
ft	lb	lb	е						ft²	lb	klf	
T1	7.400	436.487	A	0.154	2.758	0.019	1	1	3.676	199.039	0.010	С
60.000-40.000			B	0.154	2.758		1	1	3.676			
			C	0.154	2.758		1	1	3.676			
T2	3.700	215.620	A	0.152	2.764	0.018	1	1	1.816	91.580	0.009	С
40.000-30.000			B	0.152	2.764		1	1	1.816			
			C	0.152	2.764		1	1	1.816			
T3	3.700	449.674	A	0.209	2.566	0.017	1	1	2.611	109.104	0.011	С
30.000-20.000			B	0.209	2.566		1	1	2.611			
			C	0.209	2.566		1	1	2.611			
T4	10.400	906.904	A	0.211	2.559	0.015	1	1	5.276	213.576	0.011	С
20.000-0.000			B	0.211	2.559		1	1	5.276			
			C	0.211	2.559		1	1	5.276			
Sum Weight:	25.200	2008.684						OTM	18.021	613.298		
Ũ									kip-ft			

Job

Project

Client

LEWIS & CLARK SUB, SD - 112740

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Ehresmann Engineering 4400 W 31st St Yankton, SD 57078 Phone: (605) 665-7532 FAX: (605) 665-9780

60' W2400 STUB TOWER

EREP

Tower Forces - No Ice - Wind 60 To Face

Section	Add	Self	F	е	C_F	q_z	D_F	D_R	A_E	F	w	Ctrl.
Elevation	Weight	Weight	а									Face
			С			ksf						
ft	lb	lb	е						ft ²	lb	klf	
T1	7.400	436.487	Α	0.154	2.758	0.019	0.8	1	3.676	199.039	0.010	C
60.000-40.000			В	0.154	2.758		0.8	1	3.676			
			С	0.154	2.758		0.8	1	3.676			
T2	3.700	215.620	Α	0.152	2.764	0.018	0.8	1	1.816	91.580	0.009	C
40.000-30.000			В	0.152	2.764		0.8	1	1.816			
			С	0.152	2.764		0.8	1	1.816			
T3	3.700	449.674	Α	0.209	2.566	0.017	0.8	1	2.611	109.104	0.011	C
30.000-20.000			В	0.209	2.566		0.8	1	2.611			
			С	0.209	2.566		0.8	1	2.611			
T4	10.400	906.904	Α	0.211	2.559	0.015	0.8	1	5.276	213.576	0.011	C
20.000-0.000			В	0.211	2.559		0.8	1	5.276			
			С	0.211	2.559		0.8	1	5.276			
Sum Weight:	25.200	2008.684						OTM	18.021	613.298		
									kip-ft			

Tower Forces - No Ice - Wind 90 To Face

Section Elevation	Add Weight	Self Weight	F a	е	C_F	<i>q</i> :	D_F	D_R	A_E	F	w	Ctrl. Face
Dieranon			с			ksf						
ft	lb	lb	e						ft²	lb	klf	
T1	7.400	436.487	Α	0.154	2.758	0.019	0.85	1	3.676	199.039	0.010	С
60.000-40.000			В	0.154	2.758		0.85	1	3.676			
			С	0.154	2.758		0.85	1	3.676			
T2	3.700	215.620	Α	0.152	2.764	0.018	0.85	1	1.816	91.580	0.009	С
40.000-30.000			В	0.152	2.764		0.85	1	1.816			
			С	0.152	2.764		0.85	1	1.816			
Т3	3.700	449.674	Α	0.209	2.566	0.017	0.85	1	2.611	109.104	0.011	С
30.000-20.000			В	0.209	2.566		0.85	1	2.611			
			С	0.209	2.566		0.85	1	2.611			
T4	10.400	906.904	Α	0.211	2.559	0.015	0.85	1	5.276	213.576	0.011	С
20.000-0.000			В	0.211	2.559		0.85	1	5.276			
			С	0.211	2.559		0.85	1	5.276			
Sum Weight:	25.200	2008.684						OTM	18.021	613.298		
									kip-ft			

	Tower Forces - With Ice - Wind Normal To Face													
Section														
Elevation	Weight	Weight	a			-			_			Face		
			с			ksf								
ft	lb	lb	е						ft ²	lb	klf			
T1	165.282	1344.741	Α	0.601	1.803	0.006	1	1	21.168	266.492	0.013	C		
60.000-40.000			В	0.601	1.803		1	1	21.168					
			C	0.601	1.803		1	1	21.168					
T2	77.855	634.743	A	0.578	1.819	0.006	1	1	9.937	117.852	0.012	C		

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Section Elevation	Add Weight	Self Weight	F a	е	C_F	q_z	D_F	D_R	A_E	F	w	Ctrl. Face
ft	lb	lb	с e			ksf			ft ²	lb	klf	
40.000-30.000			В	0.578	1.819		1	1	9.937			
			C	0.578	1.819		1	1	9.937			
T3	73.622	894.748	A	0.599	1.805	0.005	1	1	10.721	114.473	0.011	C
30.000-20.000			В	0.599	1.805		1	1	10.721			
			C	0.599	1.805		1	1	10.721			
T4	193.481	1693.960	A	0.576	1.821	0.005	1	1	20.062	219.205	0.011	C
20.000-0.000			В	0.576	1.821		1	1	20.062			
			C	0.576	1.821		1	1	20.062			
Sum Weight:	510.239	4568.193						OTM	22.503	718.022		
									kip-ft			

Section Elevation	Add Weight	Self Weight	F a	е	C_F	<i>q</i> :	D_F	D_R	A _E	F	w	Ctrl. Face
Lievaiion	weigni	weigni	c C			ksf						Tuce
ft	lb	lb	е						ft ²	lb	klf	
T1	165.282	1344.741	А	0.601	1.803	0.006	0.8	1	21.168	266.492	0.013	С
60.000-40.000			В	0.601	1.803		0.8	1	21.168			
			С	0.601	1.803		0.8	1	21.168			
T2	77.855	634.743	Α	0.578	1.819	0.006	0.8	1	9.937	117.852	0.012	С
40.000-30.000			В	0.578	1.819		0.8	1	9.937			
			С	0.578	1.819		0.8	1	9.937			
T3	73.622	894.748	Α	0.599	1.805	0.005	0.8	1	10.721	114.473	0.011	С
30.000-20.000			В	0.599	1.805		0.8	1	10.721			
			С	0.599	1.805		0.8	1	10.721			
T4	193.481	1693.960	Α	0.576	1.821	0.005	0.8	1	20.062	219.205	0.011	С
20.000-0.000	0		В	0.576	1.821		0.8	1	20.062			
		1	С	0.576	1.821		0.8	1	20.062			
Sum Weight:	510.239	4568.193						OTM	22.503	718.022		
U									kip-ft			

		Т	ow	ver Fo	rces	- Wi	th Ic	e - V	/ind 90	To Fac	е	
Section Elevation	Add Weight	Self Weight	F a	е	C _F	<i>qz</i>	D _F	D_R	A _E	F	w	Ctrl. Face
ft	lb	lb	с е			ksf			ft ²	lb	klf	
T1	165.282	1344.741	A	0.601	1.803	0.006	0.85	1	21.168	266.492	0.013	С
60.000-40.000			В	0.601	1.803		0.85	1	21.168			
			C	0.601	1.803		0.85	1	21.168			
T2	77.855	634.743	A	0.578	1.819	0.006	0.85	1	9.937	117.852	0.012	C
40.000-30.000			B	0.578	1.819		0.85	1	9.937			
			C	0.578	1.819		0.85	1	9.937			
T3	73.622	894.748	A	0.599	1.805	0.005	0.85	1	10.721	114.473	0.011	C
30.000-20.000			B	0.599	1.805		0.85	1	10.721			
			C	0.599	1.805		0.85	1	10.721			
T4	193.481	1693.960	A	0.576	1.821	0.005	0.85	1	20.062	219.205	0.011	C
20.000-0.000			B	0.576	1.821		0.85	1	20.062			

tnxTov	ver
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Ehresmann Engineering 4400 W 31st St

Yankton, SD 57078 Phone: (605) 665-7532 FAX: (605) 665-9780

Job		Page
	LEWIS & CLARK SUB, SD - 112740	11 of 25
Project		Date
	60' W2400 STUB TOWER	11:27:44 09/22/22
Client		Designed by
	EREP	EH EH

Section Elevation	Add Weight	Self Weight	F a	е	C_F	<i>q</i> :	D_F	D_R	A_E	F	w	Ctrl. Face
ft	lb	lb	с е			ksf			ft ²	lb	klf	
Sum Weight:	510.239	4568.193	С	0.576	1.821		0.85	l OTM	20.062 22.503 kip-ft	718.022		

Tower Forces - Service - Wind Normal To Face

Section	Add	Self	F	е	C_F	<i>q</i> :	D_F	D_R	A_E	F	w	Ctrl.
Elevation	Weight	Weight	а									Face
			C			ksf						
ft	lb	lb	е						ft^2	lb	klf	
T1	7.400	436.487	Α	0.154	2.758	0.009	1	1	3.676	88.462	0.004	С
60.000-40.000			В	0.154	2.758		1	1	3.676			
			C	0.154	2.758		1	1	3.676			
T2	3.700	215.620	Α	0.152	2.764	0.008	1	1	1.816	40.702	0.004	C
40.000-30.000			В	0.152	2.764		1	1	1.816			
			С	0.152	2.764		1	1	1.816			
T3	3.700	449.674	Α	0.209	2.566	0.007	1	1	2.611	48.491	0.005	C
30.000-20.000			В	0.209	2.566		1	1	2.611			
			С	0.209	2.566		1	1	2.611			
T4	10.400	906.904	Α	0.211	2.559	0.007	1	1	5.276	94.923	0.005	C
20.000-0.000			В	0.211	2.559		1	1	5.276			
			С	0.211	2.559		1	1	5.276			
Sum Weight:	25.200	2008.684						OTM	8.009	272.577		
c									kip-ft			

	Tower Forces - Service - Wind 60 To Face											
Section	Add	Self	F	е	C_F	<i>q</i> :	D_F	D_R	A_E	F	w	Ctrl.
Elevation	Weight	Weight	а									Face
			С			ksf						
ft	lb	lb	е						_ft ²	lb	klf	
T1	7.400	436.487	Α	0.154	2.758	0.009	0.8	1	3.676	88.462	0.004	С
60.000-40.000			В	0.154	2.758		0.8	1	3.676			
			С	0.154	2.758		0.8	1	3.676			
T2	3.700	215.620	A	0.152	2.764	0.008	0.8	1	1.816	40.702	0.004	С
40.000-30.000			В	0.152	2.764		0.8	1	1.816			
			С	0.152	2.764		0.8	1	1.816			
T3	3.700	449.674	Α	0.209	2.566	0.007	0.8	1	2.611	48.491	0.005	С
30.000-20.000			В	0.209	2.566		0.8	1	2.611			
			С	0.209	2.566		0.8	1	2.611			
T4	10.400	906.904	A	0.211	2.559	0.007	0.8	1	5.276	94.923	0.005	С
20.000-0.000			В	0.211	2.559		0.8	1	5.276			
			С	0.211	2.559		0.8	1	5.276			
Sum Weight:	25.200	2008.684						OTM	8.009	272.577		
0									kip-ft			

Job

Project

Client

LEWIS & CLARK SUB, SD - 112740

Ehresmann Engineering 4400 W 31st St Yankton, SD 57078 Phone: (605) 665-7532 FAX: (605) 665-9780

60' W2400 STUB TOWER

EREP

		Т	ow	ver Fo	rces	- Se	rvice	e - W	/ind 90	To Fac	е	
Section Elevation	Add Weight	Self Weight	F	е	C _F	q_{z}	D_F	D_R	A _E	F	w	Ctrl. Face
Elevation	weigni	Weight	a c			ksf						Fuce
ft	lb	lb	е						ft ²	lb	klf	
T1	7.400	436.487	Α	0.154	2.758	0.009	0.85	1	3.676	88.462	0.004	C
60.000-40.000			В	0.154	2.758		0.85	1	3.676			
			C	0.154	2.758		0.85	1	3.676			
T2	3.700	215.620	Α	0.152	2.764	0.008	0.85	1	1.816	40.702	0.004	C
40.000-30.000			В	0.152	2.764		0.85	1	1.816			
			C	0.152	2.764		0.85	1	1.816			
T3	3.700	449.674	Α	0.209	2.566	0.007	0.85	1	2.611	48.491	0.005	C
30.000-20.000			В	0.209	2.566		0.85	1	2.611			
			C	0.209	2.566		0.85	1	2.611			
T4	10.400	906.904	Α	0.211	2.559	0.007	0.85	1	5.276	94.923	0.005	C
20.000-0.000			В	0.211	2.559		0.85	1	5.276			
			C	0.211	2.559		0.85	1	5.276			
Sum Weight:	25.200	2008.684						OTM	8.009	272.577		
									kip-ft			

Force Totals

Load	Vertical	Sum of	Sum of	Sum of	Sum of	Sum of Torques
Case	Forces	Forces	Forces	Overturning	Overturning	
		X	Z	Moments, M_x	Moments, M_z	
	lb	lb	lb	kip-ft	kip-ft	kip-ft
Leg Weight	1471.738	Bener Pil		10000000		
Bracing Weight	536.947	100 million	The Barris	A COLORADOR	ALC: NOT THE REAL PROPERTY OF	
Total Member Self-Weight	2008.684	24.00	12 18 2 19	-0.018	0.000	
Total Weight	2115.884	A COLORADO	The State of the second	-0.018	0.000	
Wind 0 deg - No Ice	The second second second	0.000	-742.934	-24.499	0.000	0.000
Wind 30 deg - No Ice	- Hart Start	371.467	-643.400	-21.219	-12.240	-0.022
Wind 60 deg - No Ice	Sale Contractor	643.400	-371.467	-12.259	-21.201	-0.038
Wind 90 deg - No Ice	State State	742.934	0.000	-0.018	-24.480	-0.043
Wind 120 deg - No Ice		643.400	371.467	12.222	-21.201	-0.038
Wind 150 deg - No Ice	Deck Hallandar	371.467	643.400	21.182	-12.240	-0.022
Wind 180 deg - No Ice	Mar and Mar In	0.000	742.934	24.462	0.000	0.000
Wind 210 deg - No Ice	and the second second	-371.467	643.400	21.182	12.240	0.022
Wind 240 deg - No Ice	and the second second	-643.400	371.467	12.222	21.201	0.038
Wind 270 deg - No Ice		-742.934	0.000	-0.018	24.480	0.043
Wind 300 deg - No Ice	and the second second	-643.400	-371.467	-12.259	21.201	0.038
Wind 330 deg - No Ice		-371.467	-643.400	-21.219	12.240	0.022
Member Ice	2559.508	No. Con Con March	Serve Server			
Total Weight Ice	5275.739			-0.034	0.000	
Wind 0 deg - Ice	The second second	0.000	-843.918	-28.745	0.000	0.000
Wind 30 deg - Ice	STR. ALL	421.959	-730.854	-24.898	-14.355	-0.022
Wind 60 deg - Ice	- 0- 10. J. J.	730.854	-421.959	-14.389	-24.864	-0.038
Wind 90 deg - Ice	- Contraction of the	843.918	0.000	-0.034	-28.710	-0.044
Wind 120 deg - Ice	100 C 100 C 100 C 100	730.854	421.959	14.321	-24.864	-0.038
Wind 150 deg - Ice	States and states	421.959	730.854	24.830	-14.355	-0.022
Wind 180 deg - Ice	Service Providence	0.000	843.918	28.676	0.000	0.000
Wind 210 deg - Ice	Ser Contractor	-421.959	730.854	24.830	14.355	0.022
Wind 240 deg - Ice	TRANSFER ST.	-730.854	421.959	14.321	24.864	0.038
Wind 270 deg - Ice	Contraction In-	-843.918	0.000	-0.034	28.710	0.044
Wind 300 deg - Ice	a second second	-730.854	-421.959	-14.389	24.864	0.038

tnxTower	Job	LEWIS & CLARK SUB, SD - 112740	Page 13 of 25
Ehresmann Engineering 4400 W 31st St	Project	60' W2400 STUB TOWER	Date 11:27:44 09/22/22
Yankton, SD 57078 Phone: (605) 665-7532 FAX: (605) 665-9780	Client	EREP	Designed by EH

Load	Vertical	Sum of	Sum of	Sum of	Sum of	Sum of Torques
Case	Forces	Forces	Forces	Overturning	Overturning	
		Х	Z	Moments, M_x	Moments, M _z	
	lb	lb	lb	kip-ft	kip-ft	kip-ft
Wind 330 deg - Ice		-421.959	-730.854	-24.898	14.355	0.022
Total Weight	2115.884	1	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	-0.018	0.000	1 1 2 2
Wind 0 deg - Service		0.000	-330.193	-10.899	0.000	0.000
Wind 30 deg - Service	and the second	165.096	-285.956	-9.441	-5.440	-0.010
Wind 60 deg - Service	A BARREL	285.956	-165.096	-5.459	-9.422	-0.017
Wind 90 deg - Service	AND THE REAL	330.193	0.000	-0.018	-10.880	-0.019
Wind 120 deg - Service		285.956	165.096	5.422	-9.422	-0.017
Wind 150 deg - Service	10 10 10 10 Aug	165.096	285.956	9.404	-5.440	-0.010
Wind 180 deg - Service		0.000	330.193	10.862	0.000	0.000
Wind 210 deg - Service		-165.096	285.956	9.404	5.440	0.010
Wind 240 deg - Service	The second	-285.956	165.096	5.422	9.422	0.017
Wind 270 deg - Service	Contraction (Contraction)	-330.193	0.000	-0.018	10.880	0.019
Wind 300 deg - Service	Contraction of the	-285.956	-165.096	-5.459	9.422	0.017
Wind 330 deg - Service		-165.096	-285.956	-9.441	5.440	0.010

	La	oad Combinations	
Comb.	De	escription	
No.			
1	Dead Only		
2	1.2 Dead+1.6 Wind 0 deg - No Ice		
3	0.9 Dead+1.6 Wind 0 deg - No Ice		
4	1.2 Dead+1.6 Wind 30 deg - No Ice		
5	0.9 Dead+1.6 Wind 30 deg - No Ice		
6	1.2 Dead+1.6 Wind 60 deg - No Ice		
7	0.9 Dead+1.6 Wind 60 deg - No Ice		
8	1.2 Dead+1.6 Wind 90 deg - No Ice		
9	0.9 Dead+1.6 Wind 90 deg - No Ice		
10	1.2 Dead+1.6 Wind 120 deg - No Ice		
11	0.9 Dead+1.6 Wind 120 deg - No Ice		
12	1.2 Dead+1.6 Wind 150 deg - No Ice		
13	0.9 Dead+1.6 Wind 150 deg - No Ice		
14	1.2 Dead+1.6 Wind 180 deg - No Ice		
15	0.9 Dead+1.6 Wind 180 deg - No Ice		
16	1.2 Dead+1.6 Wind 210 deg - No Ice		
17	0.9 Dead+1.6 Wind 210 deg - No Ice		
18	1.2 Dead+1.6 Wind 240 deg - No Ice		
19	0.9 Dead+1.6 Wind 240 deg - No Ice		
20	1.2 Dead+1.6 Wind 270 deg - No Ice		
21	0.9 Dead+1.6 Wind 270 deg - No Ice		
22	1.2 Dead+1.6 Wind 300 deg - No Ice		
23	0.9 Dead+1.6 Wind 300 deg - No Ice		
24	1.2 Dead+1.6 Wind 330 deg - No Ice		
25	0.9 Dead+1.6 Wind 330 deg - No Ice		
26	1.2 Dead+1.0 Ice+1.0 Temp		
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp		
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp		
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp		
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp		
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp		
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp		
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp		
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp		
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp		
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp		
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp		

Job

Project

Client

LEWIS & CLARK SUB, SD - 112740

Ehresmann Engineering 4400 W 31st St Yankton, SD 57078 Phone: (605) 665-7532 FAX: (605) 665-9780

60' W2400 STUB TOWER

EREP

Date 11:27:44 09/22/22 Designed by

ΕH

Comb.	Description	
No.		
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	
39	Dead+Wind 0 deg - Service	
40	Dead+Wind 30 deg - Service	
41	Dead+Wind 60 deg - Service	
42	Dead+Wind 90 deg - Service	
43	Dead+Wind 120 deg - Service	
44	Dead+Wind 150 deg - Service	
45	Dead+Wind 180 deg - Service	
46	Dead+Wind 210 deg - Service	
47	Dead+Wind 240 deg - Service	
48	Dead+Wind 270 deg - Service	
49	Dead+Wind 300 deg - Service	
50	Dead+Wind 330 deg - Service	

		Maximum Member Forces								
Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment kip-ft	Minor Axis Moment kip-ft			
T1	60 - 40	Leg	Max Tension	23	3571.964	-0.023	-0.005			
		C	Max. Compression	2	-3932.149	-0.004	0.002			
			Max. Mx	8	-3065.045	0.026	-0.004			
			Max. My	16	-3429.266	-0.010	0.024			
			Max. Vy	8	192.733	-0.002	-0.004			
			Max. Vx	2	-175.039	-0.004	0.002			
		Diagonal	Max Tension	20	483.764	0.000	0.000			
			Max. Compression	24	-486.847	0.000	0.000			
			Max. Mx	28	114.760	0.004	0.000			
			Max. My	37	5.268	0.000	-0.000			
			Max. Vy	28	5.586	0.000	0.000			
			Max. Vx	37	-0.021	0.000	0.000			
		Horizontal	Max Tension	8	35.679	0.000	0.000			
			Max. Compression	5	-34.458	0.000	0.000			
			Max. Mx	26	3.311	0.003	0.000			
		Max. Vy	26	-5.559	0.000	0.000				
			Max. Vx	36	0.000	0.000	0.000			
		Top Girt	Max Tension	14	68.596	0.000	0.000			
			Max. Compression	2	-67.171	0.000	0.000			
			Max. Mx	26	0.181	0.003	0.000			
			Max. Vy	26	-5.559	0.000	0.000			
			Max. Vx	36	0.000	0.000	0.000			
		Bottom Girt	Max Tension	10	145.548	0.000	0.000			
			Max. Compression	22	-142.275	0.000	0.000			
			Max. Mx	26	1.692	0.003	0.000			
			Max. Vy	26	-5.559	0.000	0.000			
			Max. Vx	36	0.000	0.000	0.000			
T2	40 - 30	Leg	Max Tension	23	6591.906	-0.009	0.005			
			Max. Compression	2	-7110.682	0.001	0.031			
			Max. Mx	20	5611.305	0.036	0.005			
			Max. My	24	-6192.065	0.012	0.034			
			Max. Vy	8	307.939	-0.036	-0.007			
			Max. Vx	16	267.170	0.024	-0.027			
		Diagonal	Max Tension	20	637.729	0.000	0.000			
			Max. Compression	24	-640.888	0.000	0.000			
			Max. Mx	38	422.174	0.004	0.000			
			Max. My	35	8.006	0.000	-0.000			
			Max. Vy	38	-5.337	0.000	0.000			
			Max. Vx	35	0.020	0.000	0.000			
		Horizontal	Max Tension	24	23.474	0.000	0.000			

Job

Project

Client

LEWIS & CLARK SUB, SD - 112740

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Ehresmann Engineering 4400 W 31st St Yankton, SD 57078 Phone: (605) 665-7532 FAX: (605) 665-9780

60' W2400 STUB TOWER

EREP

11:27:44 09/22/22 Designed by

EH

Date

Section	Elevation	Component	Condition	Gov.	Axial	Major Axis	Minor Ax
No.	ft	Туре		Load Comb.	lb	Moment kip-ft	Moment kip-ft
			May Compression	21	-25.165	0.000	0.000
			Max. Compression Max. Mx	21	4.620	0.000	0.000
			Max. Wx Max. Vy	26	5.312	0.000	0.000
			Max. Vy Max. Vx	36	0.000	0.000	0.000
		Top Girt	Max Tension	22	155.206	0.000	0.000
		rop ont	Max. Compression	10	-157.056	0.000	0.000
			Max. Mx	26	1.723	0.003	0.000
			Max. Vy	26	5.312	0.000	0.000
			Max. Vx	36	0.000	0.000	0.000
		Bottom Girt	Max Tension	10	115.006	0.000	0.000
		Dottom Ont	Max. Compression	23	-113.507	0.000	0.000
			Max. Mx	26	2.498	0.003	0.000
			Max. Vy	26	5.312	0.000	0.000
			Max. Vx	36	0.000	0.000	0.000
T3	30 - 20	Leg	Max Tension	7	10529.283	0.024	-0.019
15	50 - 20	LUS	Max. Compression	2	-11370.656	-0.004	0.018
			Max. Mx	20	6174.283	0.079	0.005
			Max. My	24	-6194.073	0.034	0.072
			Max. Vy	20	-316.100	0.022	0.004
			Max. Vx	2	-354.521	-0.004	0.018
		Diagonal	Max Tension	12	863.897	0.000	0.000
		Diagonai	Max. Compression	16	-867.012	0.000	0.000
			Max. Mx	38	567.111	0.005	0.000
			Max. My	35	15.741	0.000	-0.000
			Max. Vy	38	-5.943	0.000	0.000
			Max. Vx	35	-0.018	0.000	0.000
		Horizontal	Max Tension	16	48.730	0.000	0.000
		TIOTIZOIItui	Max. Compression	13	-47.537	0.000	0.000
			Max. Mx	26	8.106	0.003	0.000
			Max. Vy	26	-5.092	0.000	0.000
			Max. Vx	36	0.000	0.000	0.000
		Top Girt	Max Tension	22	138.314	0.000	0.000
		rop onr	Max. Compression	11	-138.214	0.000	0.000
			Max. Mx	26	3.597	0.003	0.000
			Max. Vy	26	-5.092	0.000	0.000
			Max. Vx	36	0.000	0.000	0.000
		Bottom Girt	Max Tension	24	288.966	0.000	0.000
			Max. Compression	12	-288.326	0.000	0.000
			Max. Mx	26	2.795	0.003	0.000
			Max. Vy	26	-5.092	0.000	0.000
			Max. Vx	36	0.000	0.000	0.000
T4	20 - 0	Leg	Max Tension	7	22067.113	0.050	-0.068
		0	Max. Compression	2	-23581.261	0.000	0.000
			Max. Mx	36	12021.610	-0.221	-0.093
			Max. My	32	12620.689	0.033	0.240
			Max. Vy	36	-1571.335	0.000	0.000
			Max. Vx	32	1707.283	0.000	0.000
		Diagonal	Max Tension	5	1332.747	0.000	0.000
		2	Max. Compression	24	-1337.978	0.000	0.000
			Max. Mx	28	700.064	0.004	0.000
			Max. My	37	-55.041	0.000	-0.000
			Max. Vy	28	-5.383	0.000	0.000
			Max. Vx	37	0.011	0.000	0.000
		Horizontal	Max Tension	24	122.164	0.000	0.000
			Max. Compression	28	-156.895	0.000	0.000
			Max. Mx	26	-65.068	0.002	0.000
			Max. Vy	26	-4.559	0.000	0.000
			Max. Vx	36	0.000	0.000	0.000
		Top Girt	Max Tension	24	300.957	0.000	0.000
		1	Max. Compression	12	-302.643	0.000	0.000
			*	26	3.256		0.000

tnxTower	Job	LEWIS & CLARK SUB, SD - 112740	Page 16 of 25
Ehresmann Engineering 4400 W 31st St	Project	60' W2400 STUB TOWER	Date 11:27:44 09/22/22
Yankton, SD 57078 Phone: (605) 665-7532 FAX: (605) 665-9780	Client	EREP	Designed by EH

Section	Elevation	Component	Condition	Gov.	Axial	Major Axis	Minor Axi
No.	ft	Туре		Load		Moment	Moment
				Comb.	lb	kip-ft	kip-ft
			Max. Vy	26	-4.559	0.000	0.000
			Max. Vx	36	0.000	0.000	0.000
		Bottom Girt	Max Tension	35	938.531	0.000	0.000
			Max. Compression	7	-181.932	0.000	0.000
			Max. Mx	26	810.602	0.002	0.000
			Max. Vy	26	-4.559	0.000	0.000

Maximum Reactions

Location	Condition	Gov.	Vertical	Horizontal, X	Horizontal, Z
		Load	lb	lb	lb
		Comb.			
Leg C	Max. Vert	18	23562.345	347.971	-482.969
	Max. H _x	18	23562.345	347.971	-482.969
	Max. Hz	28	-12648.781	-1376.704	1065.978
	Min. Vert	7	-22065.214	-370.674	492.669
	Min. H _x	29	-14897.655	-1389.030	998.027
	Min. H _z	16	20518.173	337.191	-572.431
Leg B	Max. Vert	10	23562.344	-549.156	-74.326
	Max. H _x	36	-12648.790	1587.527	667.730
	Max. Hz	27	-6504.468	1136.434	742.392
	Min. Vert	23	-22065.217	568.500	90.439
	Min. H _x	8	20518.174	-627.263	-18.493
	Min. H _z	14	12201.040	-12.267	-124.489
Leg A	Max. Vert	2	23581.633	227.253	527.790
	Max. H _x	22	12220.519	342.572	475.175
	Max. Hz	24	20537.464	327.134	578.226
	Min. Vert	15	-22050.761	-223.631	-552.432
	Min. H _x	10	-10502.078	-354.979	-485.343
	Min. H _z	32	-12615.470	-234.818	-1725.201

Tower Mast Reaction Summary

Load Combination	Vertical	Shear _x	Shearz	Overturning Moment, M _x	Overturning Moment, M _z	Torque
Comoniumon	lb	lb	lb	kip-ft	kip-ft	kip-ft
Dead Only	2115.884	0.000	0.000	-0.018	0.000	0.000
1.2 Dead+1.6 Wind 0 deg - No Ice	2539.061	0.000	-1188.695	-39.379	-0.000	0.000
0.9 Dead+1.6 Wind 0 deg - No Ice	1904.296	0.000	-1188.695	-39.326	-0.000	0.000
1.2 Dead+1.6 Wind 30 deg - No Ice	2539.061	594.347	-1029.440	-34.106	-19.678	-0.035
0.9 Dead+1.6 Wind 30 deg - No Ice	1904.296	594.347	-1029.440	-34.059	-19.655	-0.035
1.2 Dead+1.6 Wind 60 deg - No Ice	2539.061	1029.440	-594.347	-19.700	-34.084	-0.060
0.9 Dead+1.6 Wind 60 deg - No Ice	1904.296	1029.440	-594.347	-19.671	-34.043	-0.060
1.2 Dead+1.6 Wind 90 deg - No Ice	2539.061	1188.695	0.000	-0.022	-39.356	-0.069
0.9 Dead+1.6 Wind 90 deg - No Ice	1904.296	1188.695	0.000	-0.017	-39.309	-0.069

tnxTower	Job	LEWIS & CLARK SUB, SD - 112740	Page 17 of 25
Ehresmann Engineering 4400 W 31st St	Project	60' W2400 STUB TOWER	Date 11:27:44 09/22/22
Yankton, SD 57078 Phone: (605) 665-7532 FAX: (605) 665-9780	Client	EREP	Designed by EH

Load Combination	Vertical	Shear _x	Shearz	Overturning Moment, M_x	Overturning Moment, M _z	Torque
	lb	lb	lb	kip- <u>ft</u>	kip-ft	kip- <u>ft</u>
1.2 Dead+1.6 Wind 120 deg -	2539.061	1029.440	594.347	19.656	-34.084	-0.060
No Ice 0.9 Dead+1.6 Wind 120 deg -	1904.296	1029.440	594.347	19.638	-34.043	-0.060
No Ice 1.2 Dead+1.6 Wind 150 deg -	2539.061	594.347	1029.440	34.061	-19.678	-0.035
No Ice 0.9 Dead+1.6 Wind 150 deg -	1904.296	594.347	1029.440	34.026	-19.654	-0.035
No Ice 1.2 Dead+1.6 Wind 180 deg - No Ice	2539.061	-0.000	1188.695	39.334	0.000	-0.000
0.9 Dead+1.6 Wind 180 deg - No Ice	1904.296	-0.000	1188.695	39.292	0.000	-0.000
1.2 Dead+1.6 Wind 210 deg - No Ice	2539.061	-594.347	1029.440	34.061	19.678	0.035
0.9 Dead+1.6 Wind 210 deg - No Ice	1904.296	-594.347	1029.440	34.026	19.655	0.035
1.2 Dead+1.6 Wind 240 deg - No Ice	2539.061	-1029.440	594.347	19.656	34.084	0.060
0.9 Dead+1.6 Wind 240 deg - No Ice	1904.296	-1029.440	594.347	19.638	34.043	0.060
1.2 Dead+1.6 Wind 270 deg - No Ice	2539.061	-1188.695	-0.000	-0.022	39.356	0.069
0.9 Dead+1.6 Wind 270 deg - No Ice	1904.296	-1188.695	-0.000	-0.017	39.309	0.069
1.2 Dead+1.6 Wind 300 deg - No Ice	2539.061	-1029.440	-594.347	-19.701	34.084	0.060
0.9 Dead+1.6 Wind 300 deg - No Ice	1904.296	-1029.440	-594.347	-19.671	34.043	0.060
1.2 Dead+1.6 Wind 330 deg - No Ice	2539.061	-594.347	-1029.440	-34.106	19.678	0.035
0.9 Dead+1.6 Wind 330 deg - No Ice	1904.296	-594.347	-1029.440	-34.060	19.654	0.035
1.2 Dead+1.0 Ice+1.0 Temp 1.2 Dead+1.0 Wind 0 deg+1.0	5698.915 5698.915	0.000 0.000	0.000 -843.918	-0.038 -29.113	-0.000 -0.000	-0.000 0.000
Ice+1.0 Temp 1.2 Dead+1.0 Wind 30 deg+1.0	5698.915	421.959	-730.854	-25.218	-14.537	-0.022
Ice+1.0 Temp 1.2 Dead+1.0 Wind 60 deg+1.0	5698.915	730.854	-421.959	-14.576	-25.179	-0.038
Ice+1.0 Temp 1.2 Dead+1.0 Wind 90 deg+1.0	5698.915	843.918	0.000	-0.038	-29.075	-0.044
Ice+1.0 Temp 1.2 Dead+1.0 Wind 120	5698.915	730.854	421.959	14.499	-25.179	-0.038
deg+1.0 Ice+1.0 Temp 1.2 Dead+1.0 Wind 150	5698.915	421.959	730.854	25.141	-14.537	-0.022
deg+1.0 Ice+1.0 Temp 1.2 Dead+1.0 Wind 180	5698.915	-0.000	843.918	29.036	0.000	0.000
deg+1.0 Ice+1.0 Temp 1.2 Dead+1.0 Wind 210	5698.915	-421.959	730.854	25.141	14.537	0.022
deg+1.0 Ice+1.0 Temp 1.2 Dead+1.0 Wind 240	5698.915	-730.854	421.959	14.499	25.179	0.038
deg+1.0 Ice+1.0 Temp 1.2 Dead+1.0 Wind 270	5698.915	-843.918	-0.000	-0.039	29.075	0.044
deg+1.0 Ice+1.0 Temp 1.2 Dead+1.0 Wind 300	5698.915	-730.854	-421.959	-14.576	25.179	0.038
deg+1.0 Ice+1.0 Temp 1.2 Dead+1.0 Wind 330	5698.915	-421.959	-730.854	-25.218	14.537	0.022
leg+1.0 Ice+1.0 Temp			222.00		0.000	0.000
Dead+Wind 0 deg - Service	2115.884	-0.000	-330.193	-10.942	-0.000	-0.000
Dead+Wind 30 deg - Service	2115.884	165.096	-285.956	-9.479	-5.462	-0.010
Dead+Wind 60 deg - Service	2115.884	285.956	-165.096	-5.480	-9.460	-0.017 -0.019
Dead+Wind 90 deg - Service	2115.884	330.193	-0.000	-0.019	-10.924	-0

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Ehresmann Engineering 4400 W 31st St	Project	60' W2400 STUB TOWER	Date 11:27:44 09/22/22
Yankton, SD 57078 Phone: (605) 665-7532 FAX: (605) 665-9780	Client	EREP	Designed by EH

Load Combination	Vertical	Shear _x	Shear ₂	Overturning Moment, M _x	Overturning Moment, M ₇	Torque
Combination	lb	lb	lb	kip-ft	kip-ft	kip-ft
Dead+Wind 120 deg - Service	2115.884	285.956	165.096	5.443	-9.460	-0.017
Dead+Wind 150 deg - Service	2115.884	165.096	285.956	9.442	-5.462	-0.010
Dead+Wind 180 deg - Service	2115.884	0.000	330.193	10.905	0.000	-0.000
Dead+Wind 210 deg - Service	2115.884	-165.096	285.956	9.441	5.462	0.010
Dead+Wind 240 deg - Service	2115.884	-285.956	165.096	5.443	9.460	0.017
Dead+Wind 270 deg - Service	2115.884	-330.193	0.000	-0.019	10.924	0.019
Dead+Wind 300 deg - Service	2115.884	-285.956	-165.096	-5.480	9.460	0.017
Dead+Wind 330 deg - Service	2115.884	-165.096	-285.956	-9.479	5.462	0.010

Solution Summary

	C	m of Applied Forces			Sum of Reaction		
Tand		n of Applied Forces PY	PZ	PX	Sum οј κεαсιιοπ ΡΥ	PZ	% Error
Load Comb.	PX lb	lb	lb	lb	lb	lb	70 ETTOT
1	0.000	-2115.884	0.000	-0.000	2115.884	-0.000	0.000%
2	0.000	-2539.061	-1188.695	-0.000	2539.061	1188.695	0.000%
3	0.000	-1904.296	-1188.695	-0.000	1904.296	1188.695	0.000%
4	594.347	-2539.061	-1029.440	-594.347	2539.061	1029.440	0.000%
5	594.347	-1904.296	-1029.440	-594.347	1904.296	1029.440	0.000%
6	1029.440	-2539.061	-594.347	-1029.440	2539.061	594.347	0.000%
7	1029.440	-1904.296	-594.347	-1029.440	1904.296	594.347	0.000%
8	1188.695	-2539.061	0.000	-1188.695	2539.061	-0.000	0.000%
8 9	1188.695	-1904.296	0.000	-1188.695	1904.296	-0.000	0.000%
10	1029.440	-2539.061	594.347	-1029.440	2539.061	-594.347	0.000%
10	1029.440	-1904.296	594.347	-1029.440	1904.296	-594.347	0.000%
11	594.347	-2539.061	1029.440	-1029.440 -594.347	2539.061	-1029.440	0.000%
13	594.347	-1904.296	1029.440	-594.347	1904.296	-1029.440	0.000%
14	0.000	-2539.061	1188.695	0.000	2539.061	-1188.695	0.000%
15	0.000	-1904.296	1188.695	0.000	1904.296	-1188.695	0.000%
16	-594.347	-2539.061	1029.440	594.347	2539.061	-1029.440	0.000%
17	-594.347	-1904.296	1029.440	594.347	1904.296	-1029.440	0.000%
18	-1029.440	-2539.061	594.347	1029.440	2539.061	-594.347	0.000%
19	-1029.440	-1904.296	594.347	1029.440	1904.296	-594.347	0.000%
20	-1188.695	-2539.061	0.000	1188.695	2539.061	0.000	0.000%
21	-1188.695	-1904.296	0.000	1188.695	1904.296	0.000	0.000%
22	-1029.440	-2539.061	-594.347	1029.440	2539.061	594.347	0.000%
23	-1029.440	-1904.296	-594.347	1029.440	1904.296	594.347	0.000%
24	-594.347	-2539.061	-1029.440	594.347	2539.061	1029.440	0.000%
25	-594.347	-1904.296	-1029.440	594.347	1904.296	1029.440	0.000%
26	0.000	-5698.915	0.000	-0.000	5698.915	0.000	0.000%
27	0.000	-5698.915	-843.918	-0.000	5698.915	843.918	0.000%
28	421.959	-5698.915	-730.854	-421.959	5698.915	730.854	0.000%
29	730.854	-5698.915	-421.959	-730.854	5698.915	421.959	0.000%
30	843.918	-5698.915	0.000	-843.918	5698.915	-0.000	0.000%
31	730.854	-5698.915	421.959	-730.854	5698.915	-421.959	0.000%
32	421.959	-5698.915	730.854	-421.959	5698.915	-730.854	0.000%
33	0.000	-5698.915	843.918	0.000	5698.915	-843.918	0.000%
34	-421.959	-5698.915	730.854	421.959	5698.915	-730.854	0.000%
35	-730.854	-5698.915	421.959	730.854	5698.915	-421.959	0.000%
36	-843.918	-5698.915	0.000	843.918	5698.915	0.000	0.000%
37	-730.854	-5698.915	-421.959	730.854	5698.915	421.959	0.000%
38	-421.959	-5698.915	-730.854	421.959	5698.915	730.854	0.000%
39	0.000	-2115.884	-330.193	0.000	2115.884	330.193	0.000%
40	165.096	-2115.884	-285.956	-165.096	2115.884	285.956	0.000%
41	285.956	-2115.884	-165.096	-285.956	2115.884	165.096	0.000%
42	330.193	-2115.884	0.000	-330.193	2115.884	0.000	0.000%
43	285.956	-2115.884	165.096	-285.956	2115.884	-165.096	0.000%
44	165.096	-2115.884	285.956	-165.096	2115.884	-285.956	0.000%

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Ehresmann Engineering 4400 W 31st St	Project	60' W2400 STUB TOWER	Date 11:27:44 09/22/22
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	Sui	m of Applied Forces			Sum of Reaction	S	
Load	PX	PY	PZ	PX	ΡY	PZ	% Error
Comb.	lb	lb	lb	lb	lb	lb	
45	0.000	-2115.884	330.193	-0.000	2115.884	-330.193	0.000%
46	-165.096	-2115.884	285.956	165.096	2115.884	-285.956	0.000%
47	-285.956	-2115.884	165.096	285.956	2115.884	-165.096	0.000%
48	-330.193	-2115.884	0.000	330.193	2115.884	-0.000	0.000%
49	-285.956	-2115.884	-165.096	285.956	2115.884	165.096	0.000%
50	-165.096	-2115.884	-285.956	165.096	2115.884	285.956	0.000%

Non-Linear Convergence Results

Load	Converged?	Number	Displacement	Force
Combination	0	of Cycles	Tolerance	Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	4	0.00000001	0.00000001
3	Yes	4	0.00000001	0.00000001
4	Yes	4	0.00000001	0.00000001
5	Yes	4	0.00000001	0.00000001
6	Yes	4	0.00000001	0.00000001
7	Yes	4	0.00000001	0.00000001
8	Yes	4	0.00000001	0.00000001
9	Yes	4	0.00000001	0.00000001
10	Yes	4	0.00000001	0.00000001
11	Yes	4	0.00000001	0.00000001
12	Yes	4	0.00000001	0.00000001
13	Yes	4	0.00000001	0.00000001
14	Yes	4	0.00000001	0.00000001
15	Yes	4	0.00000001	0.00000001
16	Yes	4	0.00000001	0.00000001
17	Yes	4	0.00000001	0.00000001
18	Yes	4	0.00000001	0.00000001
19	Yes	4	0.00000001	0.00000001
20	Yes	4	0.00000001	0.00000001
21	Yes	4	0.00000001	0.00000001
22	Yes	4	0.00000001	0.00000001
23	Yes	4	0.0000001	0.00000001
24	Yes	4	0.00000001	0.00000001
25	Yes	4	0.00000001	0.00000001
26	Yes	4	0.00000001	0.00000001
27	Yes	4	0.00000001	0.00000001
28	Yes	4	0.00000001	0.00000001
29	Yes	4	0.00000001	0.00000001
30	Yes	4	0.00000001	0.00000001
31	Yes	4	0.00000001	0.00000001
32	Yes	4	0.0000001	0.00000001
33	Yes	4	0.0000001	0.00000001
34	Yes	4	0.0000001	0.0000001
35	Yes	4	0.0000001	0.0000001
36	Yes	4	0.00000001	0.00000001
37	Yes	4	0.0000001	0.00000001
38	Yes	4	0.0000001	0.0000001
39	Yes	4	0.00000001	0.0000001
40	Yes	4	0.00000001	0.0000001
41	Yes	4	0.00000001	0.0000001
42	Yes	4	0.00000001	0.0000001
43	Yes	4	0.00000001	0.0000001
44	Yes	4	0.0000001	0.0000001
45	Yes	4	0.0000001	0.0000001

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Electron Englished	Project		Date
Ehresmann Engineering 4400 W 31st St		60' W2400 STUB TOWER	11:27:44 09/22/22
Yankton, SD 57078 Phone: (605) 665-7532 FAX: (605) 665-9780	Client	EREP	Designed by EH

46	Yes	4	0.00000001	0.00000001
47	Yes	4	0.0000001	0.0000001
48	Yes	4	0.0000001	0.0000001
49	Yes	4	0.0000001	0.0000001
50	Yes	4	0.0000001	0.00000001

Maximum Tower Deflections - Service Wind

Section	Elevation	Horz.	Gov.	Tilt	Twist
No.		Deflection	Load		
	ft	in	Comb.	0	٥
T1	60 - 40	0.802	39	0.0959	0.0085
T2	40 - 30	0.412	39	0.0833	0.0079
Т3	30 - 20	0.252	39	0.0631	0.0077
T4	20 - 0	0.128	39	0.0498	0.0073

Critical Deflections and Radius of Curvature - Service Wind

Elevation	Appurtenance	Gov. Load	Deflection	Tilt	Twist	Radius of Curvature
ft		Comb.	in	0.	0	ft
62.000	RY-900A	39	0.802	0.0959	0.0085	165195
20.000	RY-900A	39	0.128	0.0498	0.0073	23948

Maximum Tower Deflections - Design Wind

Section No.	Elevation	Horz. Deflection	Gov. Load	Tilt	Twist
	ft	in	Comb.	ø	0
T1	60 - 40	2.887	2	0.3454	0.0240
T2	40 - 30	1.483	2	0.2997	0.0233
Т3	30 - 20	0.906	2	0.2270	0.0231
T4	20 - 0	0.461	2	0.1792	0.0223

Critical Deflections and Radius of Curvature - Design Wind

Elevation	Appurtenance	Gov.	Deflection	Tilt	Twist	Radius of
		Load				Curvature
ft		Comb.	in	0	٥	ft
62.000	RY-900A	2	2.887	0.3454	0.0240	45852
20.000	RY-900A	2	0.461	0.1792	0.0223	6655

Job

Project

Client

LEWIS & CLARK SUB, SD - 112740

Ehresmann Engineering 4400 W 31st St

Yankton, SD 57078 Phone: (605) 665-7532 FAX: (605) 665-9780 60' W2400 STUB TOWER

EREP

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Bolt Design Data

Section No.	Elevation	Component Type	Bolt Grade	Bolt Size	Number Of	Maximum Load	Allowable Load	Ratio Load	Allowable Ratio	Criteria
	ft			in	Bolts	per Bolt lb	per Bolt lb	Allowable		
T1	60	Leg	A325N	0.625	4	37.508	20708.699	0.002	1	Bolt Tension
T2	40	Leg	A325N	0.625	4	892.845	20708.699	0.043	1	Bolt Tension
Т3	30	Leg	A325N	0.625	4	1647.830	20708.699	0.080	1	Bolt Tension
T4	20	Leg	A325N	0.625	4	2631.950	20708.699	0.127	1	Bolt Tension

Compression Checks

	Leg Design Data (Compression)										
Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	φP _n	Ratio P _u		
	ft		ft	ft		in ²	lb	lb	ϕP_n		
T1	60 - 40	1 1/4	20.000	2.191	84.1 K=1.00	1.227	-3932.150	32911.801	0.119		
T2	40 - 30	1 1/4	10.000	2.430	93.3 K=1.00	1.227	-7110.680	29221.600	0.243		
Т3	30 - 20	2	10.000	2.430	58.3 K=1.00	3.142	-11370.700	110252.000	0.103		
T4	20 - 0	2	20.000	2.191	52.6 K=1.00	3.142	-23581.301	115494.000	0.204 1		

¹ P_u / ϕP_n controls

Diagonal Design Data (Compression) Elevation Size L Kl/r P_u Section L_u A ϕP_n Ratio P_u No. in^2 ft ft lb ft lb ϕP_n 60 - 40 5/8 2.967 2.812 151.2 0.307 -486.847 3032.710 0.161 ' T1 K=0.70 V 160.4 0.238 1 40 - 30 5/8 2.983 0.307 -640.888 2694.930 T2 3.147 1 K=0.70 0.146 1 129.2 30 - 20 2.885 0.442 -867.012 5941.580 T3 3/4 3.147 1 K=0.70 2.719 T4 20 - 0 3/4 2.967 121.8 0.442 -1337.980 6552.880 0.204 1 1 K=0.70

¹ P_u / ϕP_n controls

tnxTower	Job	LEWIS & CLARK SUB, SD - 112740	Page 22 of 25
Ehresmann Engineering 4400 W 31st St	Project	60' W2400 STUB TOWER	Date 11:27:44 09/22/22
Yankton, SD 57078 Phone: (605) 665-7532 F.AX: (605) 665-9780	Client	EREP	Designed by EH

Horizontal Design Data (Compression)									
Section No.	Elevation	Size	L	L_u	Kl/r	Α	P_u	ϕP_n	Ratio P _u
	ft		ft	ft		in ²	lb	lb	ϕP_n
T1	60 - 40	5/8	2.000	1.896	101.9 K=0.70	0.307	-34.458	5753.070	0.006
T2	40 - 30	5/8	2.000	1.896	101.9 K=0.70	0.307	-25.165	5753.070	0.004
T3	30 - 20	5/8	2.000	1.833	98.6 K=0.70	0.307	-47.537	5960.740	0.008
T4	20 - 0	5/8	2.000	1.833	98.6 K=0.70	0.307	-156.895	5960.740	0.026

¹ P_u / ϕP_n controls

	Top Girt Design Data (Compression)									
Section No.	Elevation	Size	L	Lu	Kl/r	А	Pu	φP _n	Ratio P _u	
	ft		ft	ft		in ²	lb	lb	ϕP_{μ}	
T1	60 - 40	5/8	2.000	1.896	101.9 K=0.70	0.307	-67.171	5753.070	0.012	
T2	40 - 30	5/8	2.000	1.896	101.9 K=0.70	0.307	-157.056	5753.070	0.027	
Т3	30 - 20	5/8	2.000	1.833	98.6 K=0.70	0.307	-138.214	5960.740	0.023	
T4	20 - 0	5/8	2.000	1.833	98.6 K=0.70	0.307	-302.643	5960.740	0.051	

¹ P_u / ϕP_n controls

Bottom Girt Design Data (Compression)									
Section No.	Elevation	Size	L	L _u	Kl/r	Α	Pu	φP _n	Ratio P _u
	ft		ft	ft		in^2	lb	lb	ϕP_n
T1	60 - 40	5/8	2.000	1.896	101.9 K=0.70	0.307	-142.275	5753.070	0.025
T2	40 - 30	5/8	2.000	1.896	101.9 K=0.70	0.307	-113.507	5753.070	0.020
Т3	30 - 20	5/8	2.000	1.833	98.6 K=0.70	0.307	-288.326	5960.740	0.048
T4	20 - 0	5/8	2.000	1.833	98.6 K=0.70	0.307	-181.932	5960.740	0.031

tnxTower	Job	LEWIS & CLARK SUB, SD - 112740	Page 23 of 25
Ehresmann Engineering 4400 W 31st St	Project	60' W2400 STUB TOWER	Date 11:27:44 09/22/22
Yankton, SD 57078 Phone: (605) 665-7532 FAX: (605) 665-9780	Client	EREP	Designed by EH

¹ P_u / ϕP_n controls

	Tension Checks											
			Leg Des	sign D)ata (Tensi	on)					
Section No.	Elevation	Size	L	Lu	Kl/r	A	Pu	ϕP_n	Ratio P _u			
	ft		ft	ft		in^2	lb	lb	ϕP_n			
T1	60 - 40	1 1/4	20.000	2.191	84.1	1.227	3571.960	55223.301	0.065 1			
T2	40 - 30	1 1/4	10.000	2.430	93.3	1.227	6591.910	55223.301	0.119 1			
T3	30 - 20	2	10.000	2.430	58.3	3.142	10529.300	141372.000	0.074 1			
T4	20 - 0	2	20.000	2.191	52.6	3.142	22067.100	141372.000	0.156 1			

¹ P_u / ϕP_n controls

Diagonal Design Data (Tension)

Section No.	Elevation	Size	L	Lu	Kl/r	А	P_u	ϕP_n	Ratio P _u
	ft		ft	ft		in ²	lb	lb	ϕP_n
T1	60 - 40	5/8	2.967	2.812	216.0	0.307	483.764	9940.200	0.049
T2	40 - 30	5/8	3.147	2.983	229.1	0.307	637.729	9940.200	0.064
T3	30 - 20	3/4	3.147	2.885	184.6	0.442	863.897	14313.900	0.060
T4	20 - 0	3/4	2.967	2.719	174.0	0.442	1332.750	14313.900	0.093

 $^{1}P_{u}$ / ϕP_{n} controls

Horizontal Design Data (Tension)									
Section No.	Elevation	Size	L	L _u	Kl/r	A	Pu	φP _n	Ratio P _u
	ft		ft	ft		in^2	lb	lb	φ <i>P</i> ,,
T1	60 - 40	5/8	2.000	1.896	145.6	0.307	35.679	9940.200	0.004
T2	40 - 30	5/8	2.000	1.896	145.6	0.307	23.474	9940.200	0.002
T3	30 - 20	5/8	2.000	1.833	140.8	0.307	48.730	9940.200	0.005 1

tnxTower	ob LEWIS & CLAF	K SUB, SD - 112740	Page 24 of 25
Ehresmann Engineering 4400 W 31st St	Project 60' W240	0 STUB TOWER	Date 11:27:44 09/22/22
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Section No.	Elevation	Size	L	Lu	Kl/r	A	Ри	ϕP_n	Ratio P _u
	ft		ft	ft		in ²	lb	lb	φ <i>P</i> ,,
T4	20 - 0	5/8	2.000	1.833	140.8	0.307	122.164	9940.200	0.012

¹ P_u / ϕP_n controls

Top Girt Design Data (Tension)										
Section No.	Elevation	Size	L	Lu	Kl/r	А	P _u	φP _n	Ratio P _u	
	ft		ft	ft		in ²	lb	lb	φ <i>P</i> ,,	
T1	60 - 40	5/8	2.000	1.896	145.6	0.307	68.596	9940.200	0.007 1	
T2	40 - 30	5/8	2.000	1.896	145.6	0.307	155.206	9940.200	0.016 1	
T3	30 - 20	5/8	2.000	1.833	140.8	0.307	138.314	9940.200	0.014 1	
T4	20 - 0	5/8	2.000	1.833	140.8	0.307	300.957	9940.200	0.030	

¹ P_u / ϕP_n controls

Bottom Girt Design Data (Tension)

Section No.	Elevation	Size	L	Lu	Kl/r	А	P_u	φ <i>P</i> "	Ratio P _u
	ft		ft	ft		in ²	lb	lb	ϕP_n
T1	60 - 40	5/8	2.000	1.896	145.6	0.307	145.548	9940.200	0.015
T2	40 - 30	5/8	2.000	1.896	145.6	0.307	115.006	9940.200	0.012
Т3	30 - 20	5/8	2.000	1.833	140.8	0.307	288.966	9940.200	0.029 1
T4	20 - 0	5/8	2.000	1.833	140.8	0.307	938.531	9940.200	0.094 1

¹ P_u / ϕP_n controls

tnxTower	Job	LEWIS & CLARK SUB, SD - 112740	Page 25 of 25
Ehresmann Engineering 4400 W 31st St	Project	60' W2400 STUB TOWER	Date 11:27:44 09/22/22
Yankton, SD 57078 Phone: (605) 665-7532 FAX: (605) 665-9780	Client	EREP	Designed by EH

Section Capacity Table

Section	Elevation	Component	Size	Critical	Р		%	Pass
No.	ft	Туре		Element	lb	lb	Capacity	Fail
T1	60 - 40	Leg	1 1/4	1	-3932.140	32911.801	11.9	Pass
		Diagonal	5/8	11	-486.847	3032.710	16.1	Pass
		Horizontal	5/8	15	-34.458	5753.070	0.6	Pass
		Top Girt	5/8	6	-67.171	5753.070	1.2	Pass
		Bottom Girt	5/8	7	-142.275	5753.070	2.5	Pass
T2	40 - 30	Leg	1 1/4	63	-7110.680	29221.600	24.3	Pass
		Diagonal	5/8	71	-640.888	2694.930	23.8	Pass
		Horizontal	5/8	73	-25.165	5753.070	0.4	Pass
		Top Girt	5/8	64	-157.056	5753.070	2.7	Pass
		Bottom Girt	5/8	67	-113.507	5753.070	2.0	Pass
T3	30 - 20	Leg	2	91	-11370.600	110252.000	10.3	Pass
		Diagonal	3/4	102	-867.012	5941.580	14.6	Pass
		Horizontal	5/8	104	-47.537	5960.740	0.8	Pass
		Top Girt	5/8	94	-138.214	5960.740	2.3	Pass
		Bottom Girt	5/8	98	-288.326	5960.740	4.8	Pass
T4	20 - 0	Leg	2	123	-23581.301	115494.000	20.4	Pass
		Diagonal	3/4	131	-1337.980	6552.880	20.4	Pass
		Horizontal	5/8	135	-156.895	5960.740	2.6	Pass
		Top Girt	5/8	125	-302.643	5960.740	5.1	Pass
		Bottom Girt	5/8	129	938.531	9940.200	9.4	Pass
							Summary	
						Leg (T2)	24.3	Pass
						Diagonal (T2)	23.8	Pass
						Horizontal (T4)	2.6	Pass
						Top Girt (T4)	5.1	Pass
						Bottom Girt (T4)	9.4	Pass
						Bolt Checks	12.7	Pass
						RATING =	24.3	Pass

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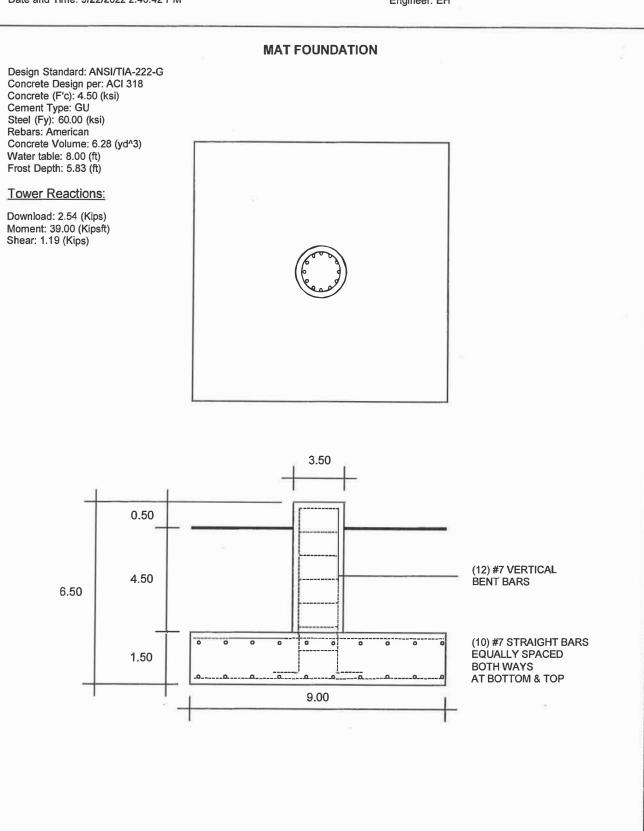
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 Contract: 112740
 Revision:0

 Project: MAT FOUNDATION
 Site: LEWIS & CLARK SUB, SD

 Date and Time: 9/22/2022 2:40:42 PM
 Engineer: EH



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File: C:\Users\Trump\Documents\TSFoundation Jobs\112740-LEWIS & CLARK SUB, SD - MAT.out Contract: 112740 Revision: 0 Project: MAT FOUNDATION Site: LEWIS & CLARK SUB, SD Date and Time: 9/22/2022 2:39:43 PM Engineer: EH Vc = 2 x Phi x SQRT(F'c) x PadWidth x d1 Vc = 2 x 0.75 x SQRT(4500.01) x 108.00 x 14.126 / 1000 = 153.45 (Kips) $Vf = (0.5 \times P1 + P2 - P3) \times Pad Width \times Bw$ Bw = Distance from edge of pad to face of column - d1 Bw = 4.500 - 1.750 - 1.177 = 1.573 (ft) = 902.38 (psf) P1 - Triangular pressure at length of Bw P2 - Rectangular pressure at length of Bw = 134.43 (psf) = 134.43 (psf) P3 - Overburden pressure at length of Bw P1 + P2 = Maximum Gross Pressure Vf = (451.19 + 134.43 - 539.98) x 9.00 x 1.57 / 1000 = 0.65 (Kips) TWO-WAY SHEAR Vc shall be lesser of: a) Vc = (2 + 4 / beta) x Phi x SQRT(F'c) x Bo x d1 b) Vc = (2 + 40 x d1 / Bo) x Phi x SQRT(F'c) x Bo x d1 c) Vc = 4 x Phi x SQRT(F'c) x Bo x dl $Bo = PI \times (PierSize + d1)$ = 176.33 (in) a) Vc = (2 + 4 / 1.0) 0.75 x SQRT(4500.01) x 176.33 x 14.13 / 1000 = 751.57 (Kips) b) Vc = (2 + 40 x 14.1 / 176.33) x 0.75 x SQRT(4500.01) x 176.33 x 14.13 / 1000 b) Vc = 651.93 (Kips) c) Vc = 4.0 x 0.75 x SQRT(4500.01) x 176.33 x 14.13 / 1000 = 501.05 (Kips) Note: Instead of calculating Vf as the pressure from Pad acting on area of pad minus area below pier we will use maximum vertical force plus the pier weight (from top of pier to the bottom of the pad) in dry condition with corresponding load factor. $Vf = 2.54 + 1.20 \times 8.76$ = 16.21 (Kips) REINFORCEMENT OF PAD Bending Moment Mpad = (Lbend - C3 / 3) x C3 x (Qmax / 2) Lbend = (PadWidth - PierSize) / 2 = (9.00 - 3.50) / 2 = 2.75 (ft) Qmax = LoadFactor x Gross Pressure' - Pressure of Soil on Pad = = 1.00 x 1036.81 - 0.90 x 599.98 = 496.82 (psf) Qmin = LoadFactor x Minimum Pressure - Pressure of Soil on Pad = = 1.00 x 267.56 - 0.90 x 599.98 = 0.00 (psf) Rectangular Pressure, Qmed = Qmax - (Qmax - Qmin) x Lbend / L1 L1 = Length of positive pressure = 9.00 (ft) $Qmed = 496.82 - (496.82 - 0.00) \times 2.75 / 9.00$ = 345.02 (psf) Triangular Pressure, Qmax - Qmed = 496.82 - 345.02 = 151.81 (psf) $Mpad = (2.75 - 0.00) \times 0.00 \times (496.82 / 2)$ = 0.00 (Kipsft) PER 1 FOOT Formula for Rho (square equation), where $Ku = Mpad / (d^2)$: Fy x Rho - Ku / Phis - Phis x Fy² x Rho² / (1.7 x Phic x F'c) = 0 Solving the equation using Newton-Ralphson Method, Rho = 0.00003 Required area of steel: Rho x dl x PadWidth = 0.00003 x 14.13 x 108.00 $= 0.04 (in^2)$ Minimum Area of Steel: 0.0018 x 108.00 x 18.00 = 3.50 (in^2) Area of Steel in pad 10-#7 10 x 4165.67 $= 6.00 (in^2)$

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File: C:\Users\Trump\Documents\TSFoundation Jobs\112740-LEWIS & CLARK SUB, SD - PIER.out Revision:0 Site: LEWIS & CLARK SUB, SD Engineer: EH **CAISSON FOUNDATION** Design Standard: ANSI/TIA-222-G Concrete Design per: ACI 318 Concrete (F'c): 4.50 (ksi) Cement Type: GU Steel (Fy): 60.00 (ksi) Rebars: American Concrete Volume: 6.95 (yd^3) Water table: 8.00 (ft) Frost Depth: 5.83 (ft) Tower Reactions: Download: 2.54 (Kips) Moment: 39.00 (Kipsft) Shear: 1.19 (Kips) 3.50 (ft) 0.50 (ft) (12) #7 VERTICAL BARS 19.00 (ft) 19.50 (ft)

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File: C:\Users Contract: 112 Project: PIER Date and Time	740 FOUNDATI	ON		n Jobs\11274	s\112740-LEWIS & CLARK SUB, SD - PIER.out Revision: 0 Site: LEWIS & CLARK SUB, SD Engineer: EH						
CAISSON FOUNDAT	ION ANALYS	SIS									
DESIGN VALUES F	OR CONCRET	FE, STEEL AN	D SOIL PROPE	RTIES:							
Concrete Streng Steel Reinforce Concrete Weight	ment Yield				: : :	60.	0 (ksi) 00 (ksi) .06 (pcf)				
Soil Properties Layer Depth : #		Submerged Density	Rankine Passive Pressure	Allowable Ne Bearing Pressure	of S	sion oil		Skin Friction Uplift	2	Type of Soil	
2 4.50 3 5.00	(pcf) 0.00 115.00 115.00 115.00	(pcf) 0.00 53.00 53.00 53.00	0.000 2.882 2.882 3.254	(psf) 0.00 0.00 2400.00 2400.00	(ps 0.00 0.00		(psf) 0.00 500.00 460.00 960.00	(psf) 0.00 500.00 460.00 960.00	(psf) 0.00 0.00 0.00 0.00	SAND SAND SAND SAND	
Depth of water D Frost Depth Depth of top so. Extension of Ca	il ignored	d for cohesi	on			5.8 0.9	0 (ft) 3 (ft) 8 (ft) 0 (ft)				
Foundation Desig	Foundation Designed According to Rebars						I/TIA-222- rican	G			
LOADING FACTORE DOWNLOAD SHEAR (Kips) (Kips) 2.54 1.19	MOMENT	C		1 - Maximum	TOTAL Moment			ial and Sr	lear		
ALLOWABLE SOIL N ULTIMATE SOIL B FACTORED SOIL B	EARING PRE	ESSURE (SAFE		3.00)	:	720	0.00 (psf) 0.00 (psf) 0.00 (psf)				
SUPERSTRUCTURE	: MONOPOLE	2									
CAISSON DIAME: DEPTH	TER BELL DIAME	BELL TER HEIGHT	BELL SLOPED HEIGHT	ANGLE V	OLUME						
(ft) (ft) 19.00 3.50	(ft) N/A	(ft) N/A	(ft) N/A		(yd^3) .95						
Min. Depth requi % LATERAL PRESSU			sure		; 9.	51 (f	t)				
Download Capacit % DOWNLOAD = 2.0	ty		8		: 12	5.09	(Kips)				
Center of Rotati Maximum bending Depth below grad		: 45	97 (f .60 (21 (f	Kipsft)							
SHEAR FORCES AND Depth below Grad (ft) 0.00 1.27 2.26 3.24 4.22 5.21 5.54 6.52 7.50 8.49	de Shear	Force (ips) 7 95 32	DN Moment (Kipsft) 39.64 40.81 41.98 43.15 44.32 45.60 45.60 24.96 38.90 4.19								

TS Foundation - v 2.0.1.5 Foundation Analysis Program Licensed to: Ehresmann Engineering 4400 W 31st St, Yankton, SD 57078 (c) 2007 - 2020 TowerSoft www.TSTower.com File: C:\Users\Trump\Documents\TSFoundation Jobs\112740-LEWIS & CLARK SUB, SD - PIER.out Contract: 112740 Revision: 0 Project: PIER FOUNDATION Site: LEWIS & CLARK SUB, SD Date and Time: 9/22/2022 11:55:05 AM Engineer: EH 0.00 9.51 0.00 COLUMN CAPACITY PERCENTAGE: 0.52 % RED BY CODE: 0.50 % CAISSON REINFORCEMENT: 12-#7 MINIMUM REINFORCEMENT IN COMPRESSION REQUIRED BY CODE: MAXIMUM DOWNLOAD: 84.37 (Kips) MAXIMUM MOMENT: 669.26 (Kipsft) APPLIED MOMENT = 45.60 (Kipsft) % COLUMN REINF. = 100 * 45.60 / 669.26 = 6.81% MAXIMUM PERCENTAGE UTILIZED = 50.08% DETAILS OF CALCULATION: CALCULATION OF DOWNLOAD CAPACITY Soil Bearing Capacity = Phi x BottomArea x SafetyFactor x AllowableBearingCapacity Soil Bearing Capacity = 0.75 x 9.621 x 3.00 x 2400.00 = 51.95 (Kips) Download resistance due to Skin Friction/Adhesion, Drf Layer # 2 PI x 4.50 x 3.50 x 500.00 Layer # 3 PI x 5.00 x 3.50 x 460.00 Layer # 4 PI x 4.50 x 3.50 x 960.00 = 24.74 (Kips) = 25.29 (Kips) = 47.50 (Kips) Sum of Skin Friction/Adhesion for entire shaft = 97.52 (Kips) = 73.14 (Kips) Drf = Phi x SkinResistance = 0.75 x 97.52 = 125.09 (Kips) Total Download Capacity

AFFIDAVIT OF MAILING

I. <u>Jeffe</u>, while , hereby certify that on the 1ST day of <u>March</u>, 20<u>23</u>, I mailed by first class mail, postage prepaid, a true and correct copy of the Notice of Public Hearing to all owners of real property lying within a <u>1,320</u> feet radius of the proposed project to the most recent address of the recipient known to your Affiant.

A true and correct copy of the Notice of Public Hearing notification letters are attached as Exhibit #1 or #2.

A true and correct copy of the mailing list for owners of real property is attached as Exhibit #1A or #2A.

Dated the 1st day of March , 2023. nac VIIII (Name) Affiant Subscribed and sworn to before me this /st day of March , 2023 . ublic - South Dakota Notary P My commission expires: Detaber, 21, 2028

(SEAL)

NOTIFICATION

February 27, 2023

East River Electric 211 S. Harth Ave., Madison, SD 57042

Dear Yankton County Property Owner:

The Yankton County Zoning Ordinance requires written notification describing a specific action be sent to the owners of real property lying within 1,320 feet of the property on which the below described action is proposed. The notice shall be given to each owner of record by depositing such notice in the United States Post Office not less than 10 days prior to the hearing date. Therefore, you are hereby notified. Please take a moment to review the notice of public hearing described below.

NOTICE OF PUBLIC HEARING

Notice is hereby given that a public hearing will be held before the Yankton County Planning Commission, Yankton County, South Dakota, at 7:05 P.M. on the 14th day of March, 2023 at the Yankton County Government Center, Commissioners Chambers, 321 West Third St., Yankton, South Dakota.

Said hearing is to consider the following:

Applicant is requesting a Conditional Use Permit to construct a wireless tower for internal communications with their substation per Article 25 Section 2503. Said property is legally described as Lot 1 of Lewis and Clark Substation addition in the Southwest Quarter of the Southwest Quarter of Section 15, Township 93 North, Range 56 West of the 5th Principal Meridian, Yankton County, South Dakota. E911 address is 206 S. Deer Boulevard, Yankton, South Dakota

The application may be reviewed at the Zoning Administrators office, Yankton County Government Center, 321 West Third St., Yankton, S.D. or online at the Yankton County Website.

Sincerely, Jerae Wire East River Electric

Petitioner

ADAM, ROGER P (D) 109 VIOLET DR YANKTON SD 57078

BGB LLC (D) 309 WEST SUMMIT ST PAGE NE 68766

BRYAN, ANDREW D (D) 3711 KRISTI LN YANKTON SD 57078

DIEFENDERFER, TERRY (D) 102 VIOLET DR YANKTON SD 57078

GUTHMILLER, KEVIN D (D) 105 VIOLET DR YANKTON SD 57078

HEINE FARMS (D) PO BOX 477 YANKTON SD 57078

HENDRIX, BRADIE A TRUST (D) 3702 STACI LN YANKTON SD 57078

KALLHOFF, CHRISTOPHER L (D) 200 FORESTVIEW DR YANKTON SD 57078

KOKESH, DAVID L (D) 3705 KRISTI LN YANKTON SD 57078

LIPPERT, WADE ALLEN (D) 3702 KRISTI LN YANKTON SD 57078 ADAM, ROLAND A (D) 317 S DEER BLVD YANKTON SD 57078

BGB LLC (D) 309 WEST SUMMIT PAGE NE 68766

CORBIT, LANCE W (D) 3704 STACI LN YANKTON SD 57078

DOLEJSI, WANDA L (D) 1109 CEDAR ST YANKTON SD 57078

HAAS, TIMOTHY A (D) 104 VIOLET DR YANKTON SD 57078

HEIRIGS, JOHN F (D) 760 LA VIESTA DR DAVENPORT FL 33837

HINKER, DUSTIN ROBERT (D) 110 VIOLET DR YANKTON SD 57078

KATHOL, KEVIN (D) 3709 KRISTI LN YANKTON SD 57078

KUEHLER, MARK E (D) 100 VIOLET DR YANKTON SD 57078

MALLOY, MATTHEW JOHN (D) 108 VIOLET DR YANKTON SD 57078 BAKLEY, DEVIN W (D) 3710 STACI LN YANKTON SD 57078

BRIGHTWAY ELECTRIC LLC (D) PO BOX 216 YANKTON SD 57078

DEIBERT, THOMAS E (D) 500 LARGHUN YANKTON SD 57078

FOXHOVEN, TIMOTHY G (D) 101 VIOLET DR YANKTON SD 57078

HEILMAN, THOMAS L (D) 3708 STACI LN YANKTON SD 57078

HENDERSON, GREGORY W (D) 3708 KRISTI LN YANKTON SD 57078

K CONSTRUCTION LLC (D) 1603 LOCUST ST YANKTON SD 57078

KELLEN, TIM (D) 3710 KRISTI LN YANKTON SD 57078

LAKESIDE PARK SD LLC (D) % RANDY SKILLIN 639 E MCKINLEY FRESNO CA 93728

MUTSCHELKNAUS, JOSEPH A (D) 602 KIRBX ST YANKTON SD 57078 NEU, JOHN J (D) 3706 KRISTI LN YANKTON SD 57078

PEPPER, SARA L (D) 107 VIOLET DR YANKTON SD 57078

RYKENS RV PARK INC (D) 31120 435 AVE YANKTON SD 57078

SHELDON, TODD M (D) 3705 STACI LN YANKTON SD 57078

SOPHECK, SENG (D) 2405 WEST CITY LIMITS RD #314 YANKTON SD 57078

WECHSLER, TIMOTHY J (D) 3703 KRISTI LN YANKTON SD 57078

WEYDERT, NICHOLAS J (D) 3707 KRISTI LN YANKTON SD 57078

ZIEGLER, MARY L (D) 5821 HALFMOON WAY LAS VEGAS NV 89108 NEU, JUDITH L TRUST (D) 3706 STACI LN YANKTON SD 57078

PETERSEN, AARON (D) 313 DEER BLVD YANKTON SD 57078

SCHULTE, LEON K (D) 3711 STACI LN YANKTON SD 57078

SKELHOUSE 1 LLC (D) 11707 ASTER WAY WOODBURY MN 55125

WALTERS, NICK (D) 612 KENNEDY ST VERMILLION SD 57069

WENTZ, CHELSEA J (D) 3704 KRISTI LN YANKTON SD 57078

WHITE CRANE ESTATES LLC (D) PO BOX 805 LAUREL NE 68745

ZIEGLER, WM (D) 201 EAST 23 ST YANKTON SD 57078 PAVELKA, GREGORY A (D) 3707 STACI LN YANKTON SD 57078

PETERSEN, AARON (D) PO BOX 1097 YANKTON SD 57078

SEDLACEK, MELVIN R (D) 3703 STACI LN YANKTON SD 57078

SOMER, HAL L (D) 3709 STACI LN YANKTON SD 57078

WEBER, MICHAEL (D) 500 KIRBY ST YANKTON SD 57078

WEST YANKTON INC (D) PO BOX 477 YANKTON SD 57078

WISE, LAURIE A (D) 106 VIOLET DR YANKTON SD 57078

Yankton County, South Dakota

Payment number Date paid Payment method Receipt

213758068 February 1, 2023 10:39 AM Online

Paid by Jerae Wire jwire@eastriver.coop

\$300.00 paid on February 1, 2023

Variance, Conditional Use and Rezoning Application Application ID: 90593

Description

Amount

Fee

\$300.00

Yankton County Planning Commission Yankton County Board of Adjustment

Date filed:

Applicant	Kim Mueller
District type:	AG R1-Low R2-Moderate R3-High C-Comm.
	LC – Lakeside Commercial RT-Rural Transitional
Section 513	Variance needed:
	Section 1907
North Side/ Yard lo	t line: feet or no closer than feet to the lot line.
East Side / Yard lot	line: feet or no closer than feet to thelot line.
South Side / Yard lo	ot line:feet or no closer thanfeet to thelot line.
West Side / Yard lo	t linefeet or no closer than feet to thelot line.
Accessory Building	Size allowed:
Proposed building s	ize:
Proposed sidewall h	eight:
Affects Section:	
Applicant wishes t acres per Article 1	sting a variance to minimum lot size in an Agriculture District. to replot one platted non-conforming lot into two lots each under 20 8 Section 1807. Said property is legally described as Plat of Lots 1 and 2 tion, in the SW1/4 of the SE1/4 of Section 8, and in the NW1/w of the NE1/4

of Section 17, T94N, R55W of the 5th P.M., Yankton County, South Dakota. E911 address is 30499 SW Jim River Rd, Yankton, South Dakota. This plat vacates previously platted Lot A of Lot 4 of Schlaefli's 3rd. Addition in the W1/2 of the

SE1/4 of Section 8, T94N, R55W of the 5th P.M., Yankton County, SD. Recorded on May 23, 2000, and Recorded in Book S18, Page 183

PC: Article 18 Section 1807 BOA: Article 19 Section 1907

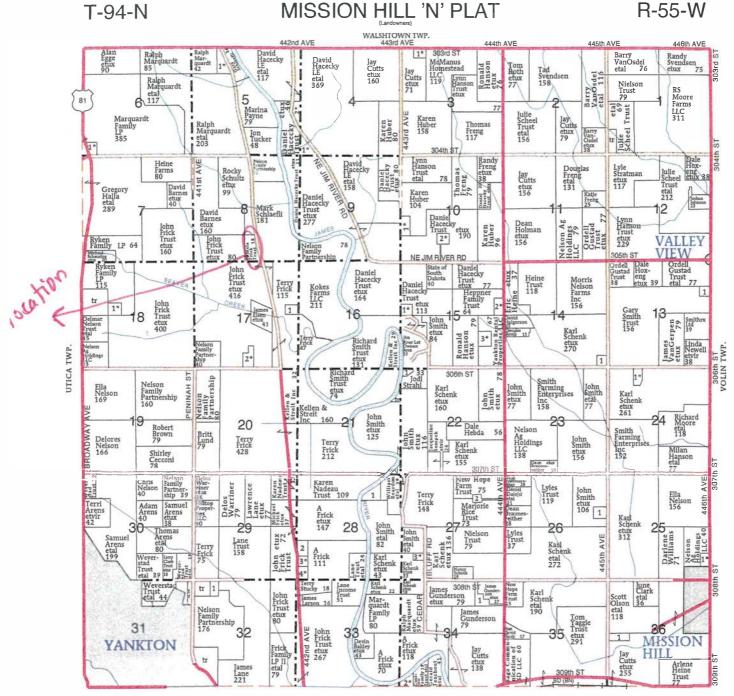
Planning Commission date: 3/14/2023	Time: 7:10
	P.M.
Board of Adjustment date: 4/4/2023	Time:

Yankton County				
_X	_ Variance	Conditi	onal Use	Rezoning
Owner:	Frick Trust			
Owners Address:	30499 Sw JIm River Rd			
Owners Phone: Applicants Name,	605-661-1249			
if different from Owner:	Kim Mueller			
Applicants Address:	30499 Sw Jim River Rd			
Job Address:	30499 SW JIM RIVER RD			
Legal:	LT A LT 4 SCHAEFLI'S 3RD ADDN			
Section, Township, Range:	8-94-55			
Zoning Classification:	AG			
Affected Zoning Ordinance:	Section 507, Section 1807513Section 18071907			
Reason for Request:	Wish to replot one lot into two smaller lots			
List Specific Hardships:	Non-conforming existing plat and non-conforming remaining acreage			
SCHEDULED FOR P			i i i	03/14/2023 8:10 PM CST
Application Fee:	\$450.00	Check #:	11019	Receipt #:
	Kin	MADY	16	Date:
Signature:				02/14/2023
	TILL	IUSI		

Site Map



Parcel Number: 06.008.100.276 Site Description:



MISSION HILL 'S' TWP.

MISSION HILL 'N' TOWNSHIP SECTION 3 Knode, Dale etux 8 SECTION 4 1. Hacecky Trust, Daniel

etux 25 SECTION 5 1. Marquardt, Ralph etal

10 2. Hacecky LE, David etal 7

SECTION 10 1. Hacecky LE, David etal 15 2. Wathier, George etux 8 SECTION 13 1. Quatier, Todd 6 SECTION 14 Helgerson, David 6 SECTION 15 1. Larson, Jeffery etux 6

1. Jones, Boyd etux 5

SECTION 6

 Aase, Elwyn etux 10
 Williams, James etux 11 SECTION 17 1. Kokes Farms LLC 9 2. Frick, Christopher 9 SECTION 18 1. Likness, Micah etux 10 SECTION 22 1. Jim River Lot Owners Assn 6 **SECTION 24** 1. Adams, Richard etux 9

SECTION 25 1. Palmer. Evan etux 12 SECTION 26 1. Sarringar, Margaret 10 SECTION 27 1. Reardon, William etal 5 2. Nelsen, Christopher 9 3. Olson, Gordon etux 6 SECTION 28 Smith Farming Enterprises Inc 10 Luben LLC 9 2.

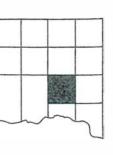


SECTION 31

- 1. City of Yankton 12 SECTION 32 1. Lotz, Eric 7

1.

- SECTION 34 1. Aune, David 11
- 2. Hacecky Trust, Daniel
- etux 15 SECTION 36
 - Town of Mission Hill 12

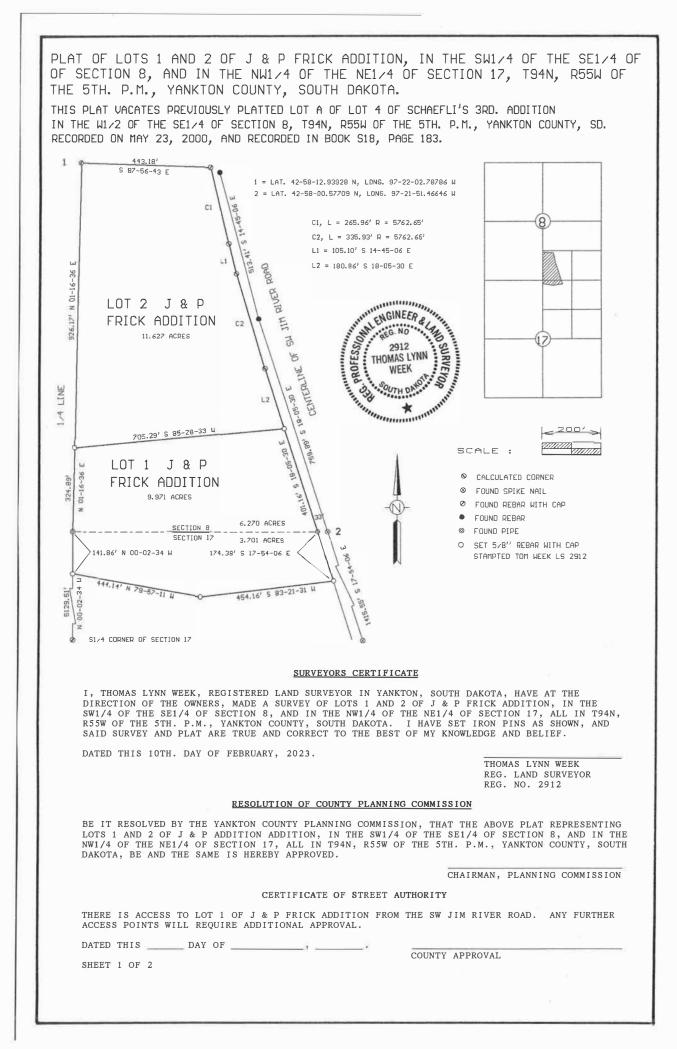


FINDINGS OF FACT – VARIANCE

Frick-Var-2023-89

Are th	ne requirements of Section 1723 met?	Yes	
	ed by owner unless there is a binding purchase		
-	ment then signed by applicant, Variance accompanied		
	ilding permit (if applicable), site plan included with		
	ng permit,	Yes	
	ne requirements of Section 1729 met? es paid at time of application)	res	
	on 1807:		
1.	A. The strict application of the ordinance would	produce	Applicant is requesting a Variance to
	undue hardship;		minimum lot size in an Ag District,
			Applicant wishes to replot one platted non-
			conforming lot into two smaller lots each
			smaller than 20 acres.
	B. Such hardship is not shared generally by other prop	erties in	
	the same zoning district and the same vicinity;		
	C. The authorization of such variance will not be of su		
	detriment to adjacent property and the character		
	district will not be changed by the grant of the variance	e; and	
	D. The granting of such variance is based upon rea	asons of	
	demonstrable and exceptional hardship as distinguish		
	variations for purposes of convenience, profit, and ca	price.	
2.	No variance shall be recommended for approval un	less the	
	Planning Commission finds the condition or situatio		
	property concerning or the intended use of the p		
	concerned, or the intended use of the property is n		
	general or recurring a nature as to make rea	-	
	practicable the formulation of a general regulatio adopted as an amendment of this ordinance.		
3.	A. A written application for a variance is submitted		
	demonstrating that special conditions and circumsta		
	exist which are peculiar to the land, structure, or buil	-	
	involved and which are not applicable to other lands,	,	
	structures, or buildings, in the same district;		
	B. The literal interpretation of the provisions of this		
	ordinance would deprive the applicant of rights		
	commonly enjoyed by other properties in the sam	ne	
	district under the terms of this ordinance;		
	C. The special conditions and circumstances do not r	esult	

	the applicant any special privilege that is denied by this ordinance to other lands, structure, or buildings in the same district.	
E.	No nonconforming use of neighboring lands, structures, or buildings in the same district, and no permitted or nonconforming use of lands, structures or buildings in other districts shall be considered grounds for the issuance of a variance.	
F.	Notice of public hearing shall be given, as in Section 1803 (3-5).	Mailed – Published –
G.	The public hearing shall be held. Any party may appear in person for by agent or by attorney.	Public hearing –
H.	The Planning Commission shall make findings that the requirements of this Section have been met by the applicant for a variance; the Commission shall further make a finding that the reasons set forth in the application justify the recommendation of granting the variance, and the variance is the minimum variance that will make possible the reasonable use of the land, building, or structure; the Planning Commission shall further make a finding that the granting of the variance will be in harmony with the general purpose and intent of this ordinance, and will not be injurious to the neighborhood, or otherwise detrimental to the public welfare.	
Ι.	In recommending approval of any variance, the Planning Commission may prescribe appropriate conditions and safeguards in conformity with this ordinance.	
J.	Under no circumstances shall the Planning Commission recommend granting a variance to allow a use not permissible under the terms of this ordinance in the district involved, or any use expressly or by implication prohibited by the terms of this ordinance in said district.	



SHEET 2 OF 2 PLAT OF LOTS 1 AND 2 OF J & P FRICK ADDITION, IN THE SW1/4 OF THE SE1/4 OF SECTION 8, AND IN THE NW1/4 OF THE NE1/4 OF SECTION 17, ALL IN T94N, R55W OF THE 5TH. P.M., YANKTON COUNTY, SOUTH DAKOTA. OWNERS CERTIFICATE I, KIMBERLY MUELLER, AS POWER OF ATTORNEY FOR PAMELA J. FRICK AND JOHN G. FRICK, OF WHICH I, KIMBERLY MUELLER, AS POWER OF ATTORNEY FOR PAMELA J. FRICK AND JOHN G. FRICK, OF WHICH ARE TRUSTEES OF THE PAMELA J. FRICK REVOCABLE TRUST AND JOHN G. FRICK REVOCABLE TRUST, DO HEREBY CERTIFY THAT PAMELA J. FRICK REVOCABLE TRUST AND THE JOHN G. FRICK REVOCABLE TRUST, ARE THE ABSOLUTE AND UNQUALIFIED OWNERS OF THE ABOVE DESCRIBED PROPERTY: LOTS 1 AND 2 OF J & P FRICK ADDITION, IN THE SW1/4 OF THE SE1/4 OF SECTION 8, AND IN THE NW1/4 OF THE NE1/4 OF SECTION 17, ALL IN T94N, R55W OF THE 5TH. P.M., YANKTON COUNTY, SOUTH DAKOTA. THAT THE ABOVE SURVEY AND PLAT WAS MADE AT MY REQUEST AND UNDER MY DIRECTION FOR THE PURPOSE OF LOCATING, MARKING AND PLATTING THE SAME, AND THAT SAID PROPERTY IS FREE FROM ALL ENCUMBRANCES. THE DEVELOPMENT OF THIS LAND SHALL CONFORM TO ALL EXISTING APPLICABLE ZONING SUBDIVISION AND EROSION AND SEDIMENT CONTROL REGULATIONS. DATED THIS DAY OF KIMBERLY MUELLER, AS POWER OF ATTORNEY STATE OF COUNTY OF NON THIS ______, BEFORE ME, THE UNDERSIGNED OFFICER, PERSONALLY APPEARI KIMBERLY MUELLER, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE WITHIN INSTRUMENT AND WHO ACKNOWLEDGED TO ME THAT SHE AS HAVING POWER OF ATTORNEY, EXECUTED THE BEFORE ME, THE UNDERSIGNED OFFICER, PERSONALLY APPEARED SAME FOR THE PURPOSES THEREIN CONTAINED. MY COMMISSION EXPIRES_ NOTARY PUBLIC RESOLUTION OF APPROVAL WHEREAS, IT APPEARS THAT THE OWNERS THEREOF HAVE CAUSED A PLAT TO BE MADE OF THE FOLLOWING REAL PROPERTY: LOTS 1 AND 2 OF J & P FRICK ADDITION, IN THE SW1/4 OF THE SE1/4 OF SECTION 8, AND IN THE NW1/4 OF THE NE1/4 OF SECTION 17, ALL IN T94N, R55W OF THE 5TH. P.M., YANKTON COUNTY, SOUTH DAKOTA, AND HAVE SUBMITTED SUCH PLAT TO THE COUNTY COMMISSION OF YANKTON COUNTY, SOUTH DAKOTA FOR APPROVAL. NOW THEREFORE BE IT RESOLVED, THAT SUCH PLAT HAS BEEN EXECUTED ACCORDING TO THE LAW AND SAME IS HEREBY APPROVED. THE COUNTY AUDITOR IS HEREBY AUTHORIZED AND DIRECTED TO ENDORSE ON SUCH PLAT A COPY OF THIS RESOLUTION AND CERTIFY THE SAME. , COUNTY AUDITOR OF YANKTON COUNTY, SOUTH DAKOTA, DO HEREBY CERTIFY THAT THE WITHIN AND FOREGOING IS A TRUE COPY OF THE RESOLUTION PASSED BY THE BOARD OF COUNTY COMMISSIONERS OF YANKTON COUNTY, SOUTH DAKOTA, ON THIS ____ DAY OF _____, COUNTY AUDITOR CHAIRMAN OF THE BOARD OF COUNTY COMMISSIONERS DIRECTOR OF EQUALIZATION CERTIFICATE I, _____, DIRECTOR OF EQUALIZATION, YANKTON COUNTY, SOUTH DAKOTA, CERTIFY THAT I HAVE RECEIVED A COPY OF THE FOREGOING PLAT. DATED THIS ____DAY OF _____, ____ DIRECTOR OF EQUALIZATION, YANKTON COUNTY TREASURER CERTIFICATE I, _____, TREASURER OF YANKTON COUNTY, SOUTH DAKOTA, CERTIFY THAT ALL TAXES WHICH ARE LIEN UPON ANY LAND INCLUDED IN THE ABOVE PLAT, AS SHOWN BY THE RECORDS OF THIS OFFICE, HAVE BEEN PAID. DATED THIS ____ DAY OF _____, ____. TREASURER, YANKTON COUNTY REGISTER OF DEEDS CERTIFICATE I, _____, REGISTER OF DEEDS, YANKTON COUNTY, SOUTH DAKOTA, CERTIFY THAT I HAVE RECEIVED THE ORIGINAL PLAT, FILED FOR RECORD THIS ___ DAY OF _____, ___, _____O'CLOCK ___.M., AND DULY RECORDED IN BOOK NO. ___, PAGE ____. PREPARED BY: TOM WEEK 407 REGAL DRIVE REGISTER OF DEEDS, YANKTON COUNTY, SD YANKTON, SOUTH DAKOTA 57078 605-665-8333

Variance, Conditional Use and Rezoning Application VAR-2023-89

Fees Paid \$450.00

Created Kim Mueller February 14, 2023

Number VAR-2023-89

06.008.100.276 | Frick Trust | 30499 SW JIM RIVER RD, **YANKTON, SD, 57078** Submitted by kimmueller8559 on 2/14/2023

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10.11				
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			100 C 100	
	1			
		-		

Applicant

Kim Mueller

Applicant

kimmueller4321@gmail.com

Parcel search Completed On 2/14/2023 11:40 AM EST by Anonymous



ParcellD	Address	City	OwnerName	Acres
06.008.100.276	30499 SW JIM RIVER RD	YANKTON	FRICK, PAMELA J REV TRUST (D)	17.860

Draft Building Permit Completed On 2/14/2023 11:46 AM EST by kimmueller8559 Upload Draft Building Permit 🖲

Draft Building Permit Form Completed On 2/14/2023 11:47 AM EST by kimmueller8559

Job Address 30499 SW JIM RIVER RD

Legal Description of Construction Site LT A LT 4 SCHAEFLI'S 3RD ADDN

Owner Name

FRICK, PAMELA J REV TRUST (D)

Owner Phone

Contractor

Contractor Mailing Address

Contractor Phone

Architect or Designer

Architect or Designer Mailing Address

Architect or Designer Phone

Type and Use of Building

Class of Work

Describe Work

Valuation of Work

Ś

Generate Draft Building Permit Completed On 2/14/2023 11:47 AM EST by kimmueller8559

Generate Draft Building Permit

Submit Completed On 2/14/2023 11:47 AM EST by kimmueller8559

A notification sign shall be posted on the property upon which action is pending at least seven (7) days prior to the hearing date. Such signs shall be placed along all the property's road frontage so as to be visible from the road. If a property does not have a road frontage, then such signs shall be placed upon the closest available right-of-way and upon the property. Said signs shall not be less than one hundred and eighty seven (187) square inches in size. It shall be unlawful for any person to remove, mutilate, destroy or change such posted notice prior to such hearings.

Please pick the sign up from the zoning office on or before eight (8) days prior to the meeting.

Applicant Agreement

Please check the box to confirm you have read and agree to the notices above.

Signature Kin (VINDINA

Date 2/14/2023

Application Submitted Successfully Completed On 2/14/2023 11:48 AM EST by kimmueller8559

Your application has been submitted for review. Thank you.

Please click next at the bottom to continue. Thank you

Site Plan Completed On 2/14/2023 12:58 PM EST by bconkling

Map - Mark the location of structures and other necessary information.

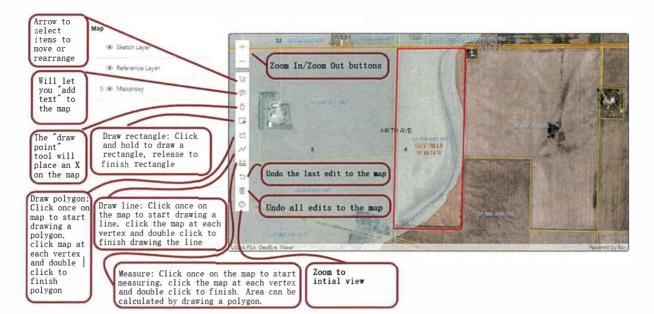
- Sketch Layer
- Reference Layer
- ▷ Mapproxy



Describe the location and use of adjacent structures

Upload Site Plan and/or additional plans and documents

Frick plat.pdf



Request Information Completed On 2/14/2023 2:58 PM EST by bconkling

Type of Request

Variance

Fee

\$450.00

Reason for Request

Wish to replot one lot into two smaller lots

List Specific Hardships

Non-conforming existing plat and non-conforming remaining acreage

Applicant Information

Are you the owner of the property?

Yes

Applicant Name Kim Mueller

Applicant Address 30499 Sw Jim River Rd

Applicant Phone 605-661-8559

Owner Information

Owner Name

Frick Trust

Owner Address

30499 Sw JIm River Rd

Owner Phone Number

605-661-1249

Property Information

Parcel ID Number

06.008.100.276

Legal Description

LT A LT 4 SCHAEFLI'S 3RD ADDN

Site Address

30499 SW JIM RIVER RD

City

YANKTON

Zip

57078

Section-Township-Range

8-94-55

Zoning District

AG

Zoning Description

AG

Existing Use of Property

Planning Review Completed On 2/14/2023 3:01 PM EST by bconkling

Describe what the applicant is requesting

Applicant wishes to replot one platted non-conforming lot into two smaller lots each less than the minimum 20 acre lot size in an AG district to separate a farmstead.

Planning Commission Code Reference

Section 507

Section 1807

Other Planning Commission Code Reference 🖲

513

Board of Adjustment Code Reference

Section 1807

Other Board of Adjustment Code Reference 0

1907

Please confirm the zoning provided by the applicant. If zoning is incorrect, please enter the correct zoning. It is this field that is printed on the final form to avoid applicant/system error. The correct zoning must be entered.

Zoning Classification 0

AG

Wave Fee

Notes 0

Director Review Completed On 2/14/2023 3:03 PM EST by gvetter

Zoning Director Review

Approve

Payment Completed On 2/14/2023 3:04 PM EST by bconkling

Fees Paid

Fee Name Recipient Amount Fee Planning and Zoning \$450.00

Confirmation Data

VIEW RECEIPT

	Payment Method	Check
	Confirmation Number	11019
	Amount Paid	\$450.00
I	PC Prep Completed On 2/14/2023 3:06 PM EST by bconkling	

Planning Commission Meeting

Planning Commission Meeting Date and Time March 14th 2023, 7:10 pm CST

Letters to be mailed 10 days prior to the public meeting: 03/04/2023 8:10 PM

Additional instructions for PC email

Return the affidavit 8 days prior to the public meeting: 03/06/2023 8:10 PM

Place your zoning action sign 7 days prior to the public meeting: 03/07/2023 8:10 PM

Date to send email to applicant

02/27/2023

Upload PC Mailing Labels

2 Mailing Affidavit 2640.pdf

Upload PC Affidavit of Mailing

2 Mailing Affidavit 2640.pdf

Upload PC Notification Letter

Frick Notification Letter.pdf

Upload PC Newspaper Publication

Legals 3-14-2023.pdf

Permit Number VAR-2023-89 PC App Form Completed On 2/14/2023 3:06 PM EST by bconkling PC App Form External Notes

Documents

Internal Notes

Documents

AFFIDAVIT OF MAILING

I, Musle, hereby certify that on the 28 day of , 20 33, I mailed by first class mail, postage prepaid, a true and correct copy of the Notice of Public Hearing to all owners of real property lying within a 2640 feet radius of the proposed project to the most recent address of the recipient known to your Affiant.

A true and correct copy of the Notice of Public Hearing notification letters are attached as Exhibit #1 or #2.

A true and correct copy of the mailing list for owners of real property is attached as Exhibit #1A or #2A.

Dated	the	33	day	of Jabruary, 20 23.
		ē.		(Name) Mueller
				Affiant

Subscribed and sworn to before me this 38 day of $\frac{3}{20}$ day 20 $\frac{3}{23}$.

Notary Public - South Dakota My commission expires: 8-22-202 5

(SEAL)

NOTIFICATION

February 27, 2023

Kim Mueller Pamela and John Frick Revocable Trust 30499 SW Jim River Rd Yankton, SD 57078

Dear Yankton County Property Owner:

The Yankton County Zoning Ordinance requires written notification describing a specific action be sent to the owners of real property lying within 2640 feet of the property on which the below described action is proposed. The notice shall be given to each owner of record by depositing such notice in the United States Post Office not less than 10 days prior to the hearing date. Therefore, you are hereby notified. Please take a moment to review the notice of public hearing described below.

NOTICE OF PUBLIC HEARING

Notice is hereby given that a public hearing will be held before the Yankton County Planning Commission, Yankton County, South Dakota, at 7:10 P.M. on the 14th day of March, 2023 at the Yankton County Government Center, Commissioners Chambers, 321 West Third St., Yankton, South Dakota.

Said hearing is to consider the following:

Applicant is requesting a variance to minimum lot size in an Agriculture District. Applicant wishes to replot one platted non-conforming lot into two lots, each under 20 acres per Article 18 Section 1807. Said property is legally described as Plat of Lots 1 and 2 of J & P Frick Addition, in the SW1/4 of the SE1/4 of Section 8, and in the NW1/w of the NE1/4 of Section 17, T94N, R55W of the 5th P.M., Yankton County, South Dakota. E911 address is 30499 SW Jim River Rd, Yankton, South Dakota.

This plat vacates previously platted Lot A of Lot 4 of Schlaefli's 3^{rd} . Addition in the W1/2 of the SE1/4 of Section 8, T94N, R55W of the 5^{th} P.M., Yankton County, SD. Recorded on May 23, 2000, and Recorded in Book S18, Page 183

The application may be reviewed at the Zoning Administrators office, Yankton County Government Center, 321 West Third St., Yankton, S.D. or online at the Yankton County Website.

Sincerely, Kimberly Mueller Pamela and John Frick Revocable Trust Petitioner BARNES, DAVID J (D) 44115 304 ST YANKTON SD 57078

FRICK, PAMELA J REV TRUST (D) 30499 SW JIM RIVER RD YANKTON SD 57078

KOKES FARMS LLC (D) 42273 SD HWY 50 TABOR SD 57063

SCHULTZ, ROCKY ALLEN (D) 44121 304 ST YANKTON SD 57078 ELSEN, JAMES E (D) 30575 SW JIM RIVER RD YANKTON SD 57078

FRICK, TERRY LEE (D) 30697 SW JIM RIVER RD YANKTON SD 57078

NELSON FAMILY PARTNERSHIP (D) 44023 306 ST YANKTON SD 57078 FRICK, JOHN G REV TRUST (D) PO BOX 661 YANKTON SD 57078

HACECKY, DANIEL REV TRUST (D) 30463 NE JIM RIVER RD MISSION HILL SD 57046

SCHLAEFLI, MARK B (D) 30456 SW JIM RIVER RD YANKTON SD 57078

Yankton County, South Dakota

Payment number Date paid Payment method

Receipt

11019 February 14, 2023 03:04 PM Check

Paid by Kim Mueller kimmueller4321@gmail.com

\$450.00 paid on February 14, 2023

Variance, Conditional Use and Rezoning Application Application ID: VAR-2023-89

Description

Amount

Fee

\$450.00

ARTICLE 4

OFFICIAL ZONING MAP AND BOUNDARY INTERPRETATION

Section 401 General

The County is hereby divided into zones, or districts, as shown on the Official Zoning Map, which, together with all explanatory matter thereon, is hereby adopted by reference and declared to be a part of this Ordinance. The Official Zoning Map shall be identified by the signature of the Chairman of the County Commissioners, attested by the Auditor, and bearing the seal of the County, under the following words: "This is to certify that this is the Official Zoning Map referred to in Section 401 of Ordinance No. 16 2020 of "Yankton County, South Dakota," together with the date of the adoption of this Ordinance.

Section 403 Zoning Map Changes

If, in accordance with the provisions of this Ordinance, changes are made in the district boundaries or other matter portrayed on the Official Zoning Map, such changes shall be entered on the Official Zoning Map promptly after the amendment has been approved by the County Commissioners, with an entry on the Official Zoning Map as follows: "on [date], by official action of the Yankton County Commission, the following [change] changes were made in the Official Zoning Map: [brief description of nature of change]," which entry shall be signed by the Chairman of the Commission and attested by the Auditor. No amendment to this Ordinance which involves matters portrayed on the Official Zoning Map shall become effective until after such change and entry has been made on said map.

No changes of any nature shall be made in the Official Zoning Map or matters shown thereon except in conformity with the procedures set forth in this Ordinance.

Any unauthorized change of whatever kind by any person or persons shall be considered a violation of this Ordinance and punishable as provided under Section 2303.

Regardless of the existence of purported copies of the Official Zoning Map which may, from time to time, be made or published, the Official Zoning Map which shall be located in the office of the Zoning Administrator shall be the final authority as to the current zoning status of land and water areas, buildings, and other structures in the County.

Section 405 Zoning Map Replacement

In the event that the Official Zoning Map becomes damaged, destroyed, lost or difficult to interpret because of the nature or number of changes and additions, the Yankton County Commission may, by resolution, adopt a new Official Zoning Map, which shall supersede the prior Official Zoning Map.

The new Official Zoning Map may correct drafting or other errors or omissions in the prior Official Zoning Map, but no such correction shall have the effect of amending the original Official Zoning Map or any subsequent amendment thereof.

The new Official Zoning Map shall be identified by the signature of the Chairman of the County Commission, attested by the Auditor, and bearing the seal of the County, under the following words:

"This is to certify that this Official Zoning Map supersedes and replaces the Official Zoning Map adopted [date of adoption of map being replaced] as part of Ordinance No. 16 2020 of "Yankton County, South Dakota."

Unless the prior Official Zoning Map has been lost, or has been totally destroyed, the prior map or any significant parts thereof remaining shall be preserved, together with all available records pertaining to its adoption or amendment.

Section 407 Rules for Interpretation of District Boundaries

Where uncertainty exists as to the boundaries of districts as shown on the Official Zoning Map, the following rules shall apply:

- 1. Boundaries indicated, as approximately following the centerlines of right-ofways, roads, highways, or alleys shall be construed to follow such centerlines;
- 2. Boundaries indicated as approximately following platted lot lines shall be construed as following such lot lines;
- 3. Boundaries indicated, as approximately following city limits shall be construed as following such city limits;
- 4. Boundaries indicated, as following railroad lines shall be construed to be midway between the main tracks;
- 5. Boundaries indicated as following shore lines shall be construed to follow such shore lines, and in the event of change in the shore line shall be construed as moving with the actual shore line; boundaries indicated as approximately following the center line of streams, rivers, canals, lakes, or other bodies of water shall be construed to follow such center lines;
- Boundaries indicated as parallel to or extensions of features indicated in subsections 1 through 5 above shall be so construed. The scale of the map shall determine distances not specifically indicated on the Official Zoning Map; and

Where physical or cultural features existing on the ground are at variance with those shown on the Official Zoning Map, or in other circumstances not covered by subsections 1 through 6 above, the Planning Commission shall interpret the district boundaries.

YANKTON COUNTY

Official Zoning Map

Legend

Lege	
-+++-	RAILROAD
	STREAM
\sim	US & STATE HIGHWAY
\sim	ROAD
	CITY LIMIT
	TOWNSHIP
	PARCEL
8	LAKE
ZONIN	IG CLASSIFICATIONS
	AGRICULTURE
٠.	COMMERCIAL
	ETJ
•	LAKE SIDE COMMERCIAL
€.	HIGH DENSITY RESIDENTIAL
•	LOW DENSITY RESIDENTIAL
	MODERATE DENSITY RESIDENTIA
٠.	PUBLIC
÷.	PLANNED UNIT DEVELOPMENT
÷.	RURAL TRANSITIONAL

This is to certify that this Official Zoning Map 2020 referred to in Section 401, adopted ______-2023, supersedes and replaces the Official Zoning Map 2020 adopted February 18, 2020 as part of Ordinance 2020 of Yankton County, South Dakota.

> Don Kettering Chair

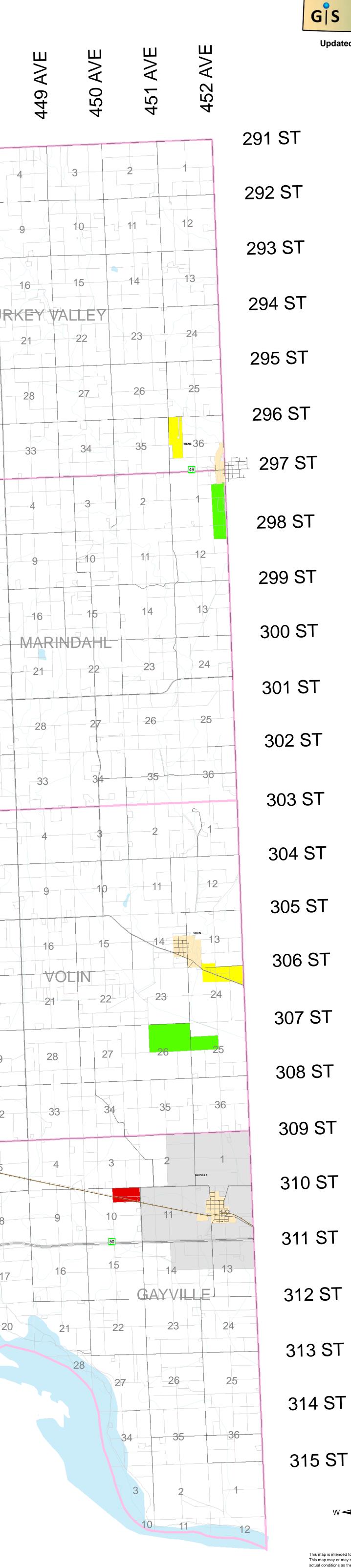
Patty Hojem Auditor

NEW ZONING DISTRICTS

DATE	PARCEL	REZONE
3/5/08	05.004.200.200	RT to C
2/10/09	09.015.100.140	RT to PUD
10/22/10	04.036.400.025	AG to R2
3/25/11	09.018.400.303, 09.007.300.310	R1 to R2
8/15/12	10.001.200.040	PUD to AG
8/20/12	10.001.200.100, 10.001.200.110	PUD to AG
7/12/13	05.010.300.360	R3 to C
10/25/13	09.016.200.100	RT to LC
3/4/14	10.021.150.100	AG to C
6/2/15	05.010.300.313	R3 to C
7/7/15	05.010.300.320	C/R3 to C
7/7/15	05.010.300.317	R3 to C
7/7/15	05.010.300.316	R3 to C
9/1/15	06.021.200.100	PU to AG
4/5/16	06.021.200.100	PU to AG
5/3/16	11.027.200.140	R2 to AG
6/7/16	05.013.400.460, 05.013.400.470	R2, R3, RT to R3
8/7/18	13.016.400.600, 13.016.300.100, 13.016.200.200	AG to PUD
11/19/20	13.001.500.650	R2 to R1
11/19/20	10.024.200.110	RT to C
11/19/20	10.024.200.120	RT to C
2/18/21	09.017.450.030	LC/R2 to R2
2/18/21	09.017.450.010	LC/R2 to R2
5/20/21	05.016.100.250	RT to R2
5/20/21	05.016.100.255	RT to R2
5/20/21	05.016.100.265	RT to R2
5/20/21	05.016.100.270	RT to R2
5/20/21	05.016.100.275	RT to R2
5/20/21	05.016.100.280	RT to R2
1/6/2022	09.017.100.310	R2 to PUD
3/10/2022	10.033.300.100	Ag to C - replat
4/14/2022	09.016.200.400	RT to AG
4/14/2022	10.024.200.210	RT to R2
4/14/2022	10.024.200.220	RT to R2
4/14/2022	10.024.200.300	RT to R2
4/14/2022	10.024.200.304	RT to R2
4/14/2022 4/14/2022	10.024.200.120	RT to C
4/14/2022 4/14/2022	06.018.300.300	RT to R2
4/14/2022 4/14/2022	09.009.200.175	RT to R2
4/14/2022 4/14/2022	09.009.200.173	RT to R2
4/14/2022 4/14/2022	09.016.150.100	RT to R2
	09.009.200.202	
4/14/2022 8/18/2022		RT to R2
8/18/2022	10.024.100.210	RT to C
8/18/2022	10.024.100.215	RT to C
9/15/2022	13.014.300.600	R2 to AG
9/15/2022	13.015.200.010	R2 to AG
11/17/2022	east River	RT to R2



438 AVE	439 AVE	440 AVE	441 AVE	442 AVE	443 AVE	444 AVE	445 AVE	446 AVE	447 AVE	448 AVE
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22	23	13	18	20	16 WALSH 21 28	15 TOWN 22 27	14 23 26	13 24 25	18	17 20 29
34	26	-25	30 31 81 6	32 5 MISSI	33 4 ON HILI DRTH	34	35	36	31	32
10 15 IOR1 22		12	-19	20	9 16 21	10	11	- 12 - 13 - 24	18	17
27	35	25	30 VANKTON 31	29	-28 	27	26	25	30 31 MISSION HILL 6	29
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	22 23	24	81						4 19	20

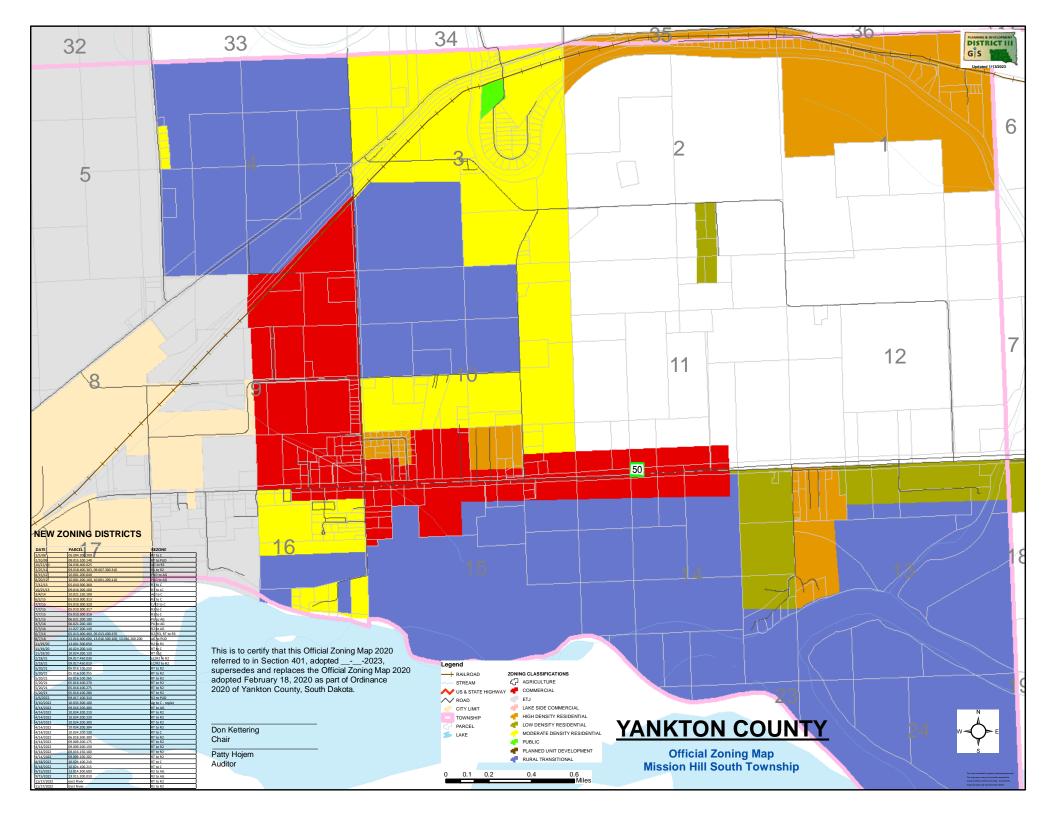


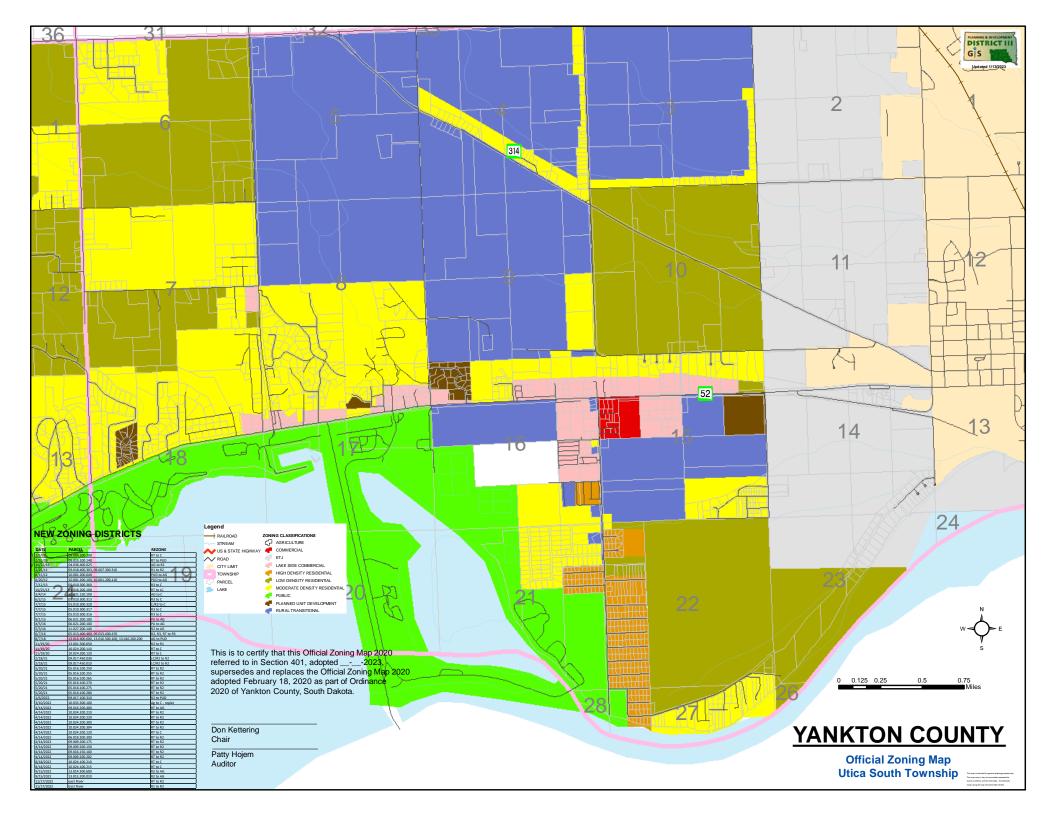
PLANNING & DEVELOPMEN **DISTRICT III** GS Updated 1/13/2023

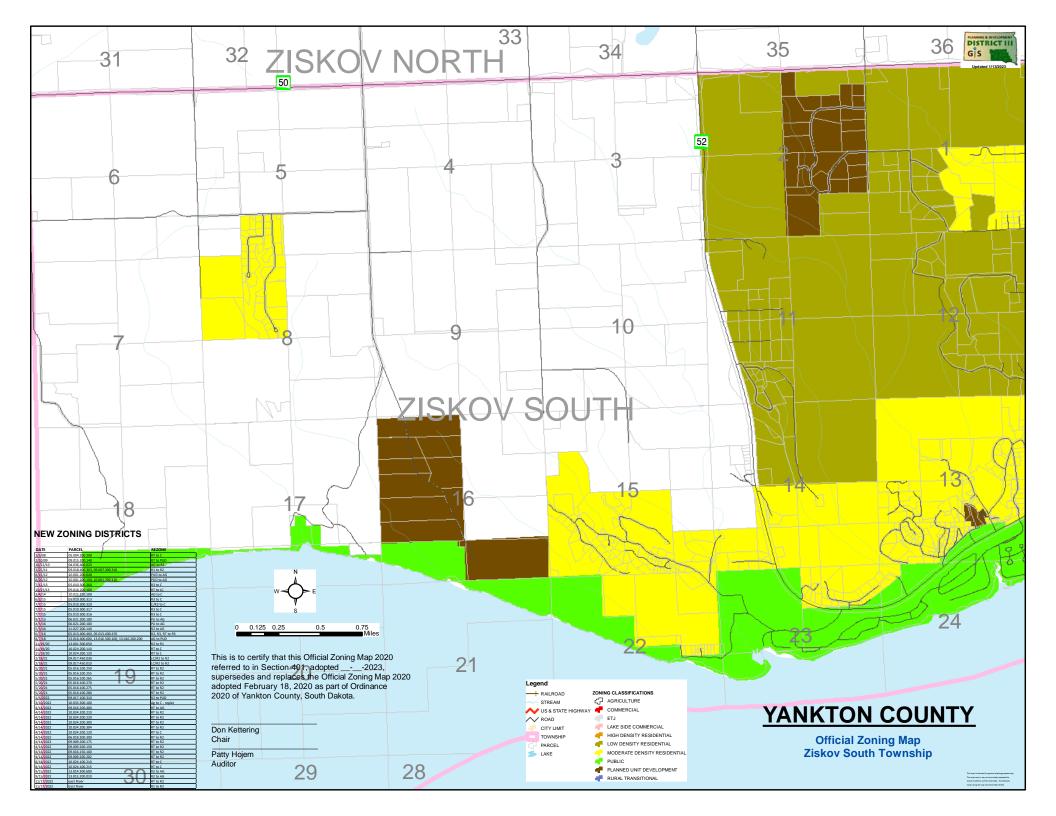
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This map is intended for general planning purposes only. This map may or may not accurately represent the actual conditions as they exist today. Any decisions

made using this map should be field verified.







NOTICE OF HEARING OF THE THE YANKTON COUNTY PLANNING COMMISSION RECOMMENDATION OF PROPOSED AMENDMENTS OF ARTICLE 4 AND RE-ADOPTION OF AMENDED ZONING MAP TO BE SUPERSEDED AND REPLACED FOR YANKTON COUNTY ORDINANCE 2020

A public hearing will be held before the Yankton County Planning Commission on the 14th day of March 2023 beginning at 7:15 p.m. in the Commission Chambers, Yankton County, South Dakota, to consider recommendation to amend Article 4 and Re-Adopt Amended Zoning Map for Yankton County Ordinance 2020 to be superseded and replaced.

The complete text and map of this proposed amendment referred to above is on file with the Yankton County Auditor Office and Yankton County Planning Office. The document may be inspected, reviewed, or examined by any interested party by contacting (605) 260-4447.

The public is invited to attend the hearing and to present comments and testimony regarding proposed amendments re-adoption of amended Zoning Map for Yankton County Ordinance 2020. At the conclusion of the hearing, the Yankton County Planning Commission may recommend adoption Yankton County Ordinance No.23-ZN-01.

Dated this 1st day of March, 2023

ATTEST: Gary Vetter – Development Services Director

Published twice at a total approximate cost of ______. March 3, 2023 March 10, 2023

Yankton County Planning Commission
Yankton County Board of Adjustment Date filed: 2/9//2023
Applicant Frick Addition-PLAT
District type: AG R1-Low R2-Moderate R3-High C-Comm.
LC – Lakeside Commercial RT-Rural Transitional
Variance needed: Section 513 (4) – Existing Farmstead/Home Section 515 Section 705
Section 715 Section 805
☐ Other 605
North Side/ Yard lot line: feet or no closer than feet to the lot line. East Side / Yard lot line: feet or no closer than feet to the lot line. South Side / Yard lot line: feet or no closer than feet to the lot line. West Side / Yard lot line feet or no closer than feet to the lot line.
Accessory Building Size allowed: Proposed building size: Proposed sidewall height: Affects Section:

NOTE:

Plat of Lots 1 and 2 of J & P Frick Addition, in the SW1/4 of the SE1/4 of Section 8, and in the NW1/w of the NE1/4 of Section 17, T94N, R55W of the 5th P.M., Yankton County, South Dakota.

This plat vacates previously platted Lot A of Lot 4 of Schlaefli's 3rd. Addition in the W1/2 of the SE1/4 of Section 8, T94N, R55W of the 5th P.M., Yankton County, SD. Recorded on May 23, 2000, and Recorded in Book S18, Page 183

Please Check Plat Type:
🛛 Final 📋 Amended 🗌 Preliminary 🗌 Revision
Development Information
Plat Name: Plat of Lots 1 and 2 of J & P Frick
Section No: <u>8</u> Township No:94
Range: 55 Number of Lots/Tracts: 2
Number of Acres: 17.86
How is the property currently being used?AG
What is the proposed use of the property?AG
Surveyor/Engineer Information
Firm Name: Tom Week
Address:
Property Owner Information
Name: Pamela and John Frick Revocable Address: 30499 SW JIM RIVER RD City: Yankton State: SD Zip: 57078 Contact person: Tom Week If the property owner is represented by an authorized agent, please provide the following: Agent's name: Kim Mueller Agents Title: Power of Attorney

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	You must provide the following:
The Yan	kton County Zoning Ordinance requires minimum lot
sizes.	
1.Does th	his lot/tract conform? 🔲 Yes 🖄 No
2.What i	s/are the lot size(s) 11.627, 9.971 acres
3. Is this	(plat) an existing farmstead? XYes No
4. If a fa	rinstead, how many acres are surrounding it? 9.971
5 The Y	ankton County Zoning Ordinance requires a variance fror
	n lot sizes. Are you willing to apply for the variance, if
	γ ? \overline{X} Yes \Box No
	property to have construction on it? \Box Yes \Box No
If yes :	
	ddress and phone number of contractor(s)
runo, a	duress and phone number of conductor(s)
	Owner certification
This is to	certify that John and Pam Frick Trust
the unde	o certify that John and Pam Frick Trust rsigned is/are the sole owner(s) of the property described
the under above or	o certify that John and Pam Frick Trust rsigned is/are the sole owner(s) of the property described the date of this application, and that I/we have read and
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Some plats of subdivisions and additions may require a Perpetual Road Maintenance Agreement prior to consideration.

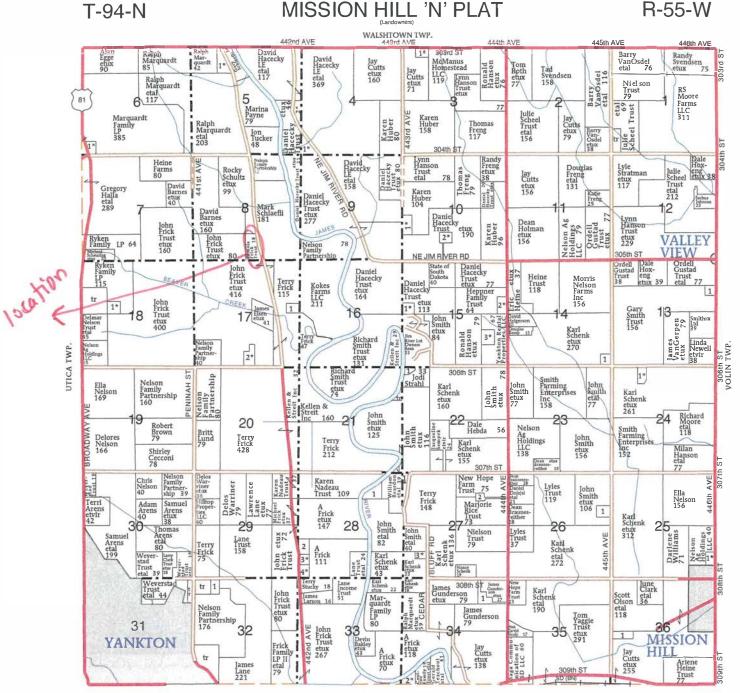
YANKTON COUNTY PLANNING PLAT APPROVAL CHECKLIST

In order to insure prompt approval of your plat, please follow these steps:

X Plat has been approved by the City of Yankton, if within the ETJ or 3 mile buffer zone?

- ☑ 1. All required signatures notarized (owner(s), surveyor)?
- □ 2. Taxes paid at County Treasures?
- \Box 3. County Treasurer's signature?
- ☑ 4. Ownership verified by Director of Equalization and signed?
- ⊠ 5. Street authority signature (DOT, Highway, Township)?
- ☑ 6. \$100.00 Fee Paid at Zoning Office?
- X 7. Plat has been scheduled/approved by the Yankton County Planning Commission?
- □ 8. County Planning Commission Chair signature?
- □ 9. Plat has been scheduled/approved by the Yankton County Board of County Commissioners?
- □ 10. County Commission Chairs signature?
- □ 11. County Auditor's signature?
- \Box 12. Plat has been filed with the Register of Deeds?

Planning Commission date: 03/14/2023 Board of Adjustment date:



MISSION HILL 'S' TWP.

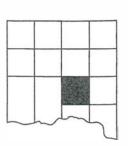
MISSION HILL 'N' <u>TOWNSHIP</u> <u>SECTION 3</u> 1. Knode, Dale etux 8 <u>SECTION 4</u> 1. Hacecky Trust, Daniel etux 25 <u>SECTION 5</u> 1. Marquardt, Ralph etal

10

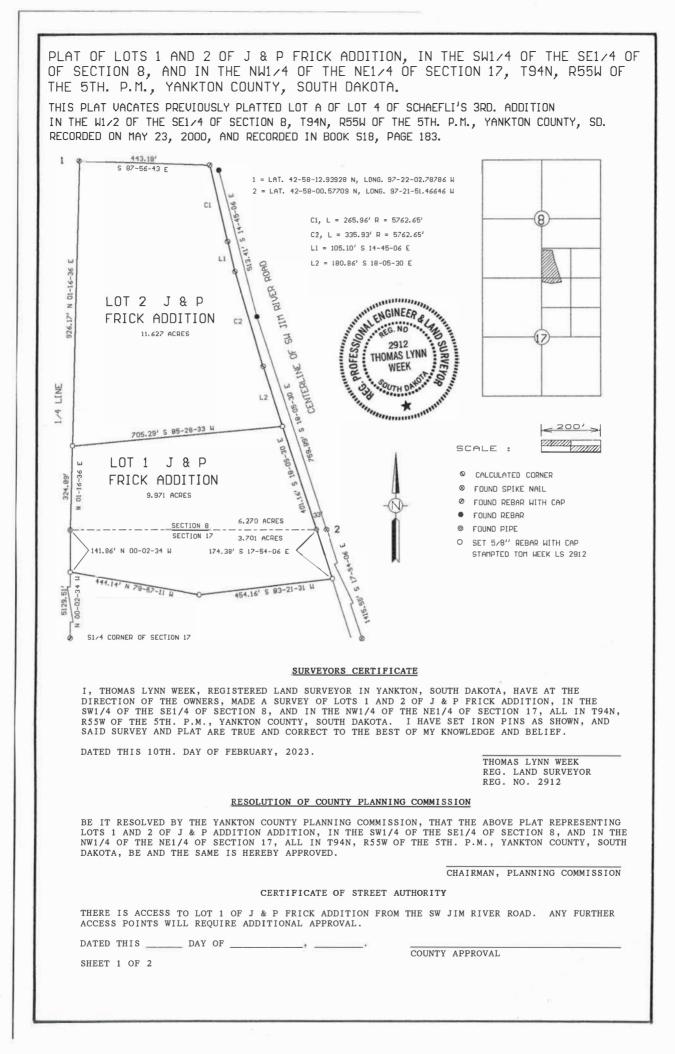
SECTION 6 1. Jones, Boyd etux 5 SECTION 10 1. Hacecky LE, David etal 15 2. Wathier, George etux 8 SECTION 13 1. Quatier, Todd 6 SECTION 14 1. Helgerson, David 6 SECTION 15 1. Larson, Jeffery etux 6

 Aase, Elwyn etux 10
 Williams, James etux 11
 SECTION 17
 Kokes Farms LLC 9
 Frick, Christopher 9
 SECTION 18
 Likness, Micah etux 10
 SECTION 22
 Jim River Lot Owners Assn 6
 SECTION 24
 Adams, Richard etux 9 SECTION 25 1. Palmer, Evan etux 12 SECTION 26 1. Sarringar, Margaret 10 SECTION 27 1. Reardon, William etal 5 2. Nelsen, Christopher 9 3. Olson, Gordon etux 6 SECTION 28 1. Smith Farming Enterprises Inc 10 2. Luben LLC 9

 Montagne, Pierre etux 5
 Stucky, Terry etux 5 <u>SECTION 31</u>
 City of Yankton 12 <u>SECTION 32</u>
 Lotz, Eric 7 <u>SECTION 34</u>
 Aune, David 11
 Hacecky Trust, Daniel etux 15 <u>SECTION 36</u>
 Torwn of Mission Hill 12



ben LL



SHEET 2 OF 2

PLAT OF LOTS 1 AND 2 OF J & P FRICK ADDITION, IN THE SW1/4 OF THE SE1/4 OF SECTION 8, AND IN THE NW1/4 OF THE NE1/4 OF SECTION 17, ALL IN T94N, R55W OF THE 5TH. P.M., YANKTON COUNTY, SOUTH DAKOTA.

OWNERS CERTIFICATE

I, KIMBERLY MUELLER, AS POWER OF ATTORNEY FOR PAMELA J. FRICK AND JOHN G. FRICK, OF WHICH ARE TRUSTEES OF THE PAMELA J. FRICK REVOCABLE TRUST AND JOHN G. FRICK REVOCABLE TRUST, DO HEREBY CERTIFY THAT PAMELA J. FRICK REVOCABLE TRUST AND THE JOHN G. FRICK REVOCABLE TRUST, ARE THE ABSOLUTE AND UNQUALIFIED OWNERS OF THE ABOVE DESCRIBED PROPERTY: LOTS 1 AND 2 OF J & P FRICK ADDITION, IN THE SW1/4 OF THE SE1/4 OF SECTION 8, AND IN THE NW1/4 OF THE NE1/4 OF SECTION 17, ALL IN T94N, R55W OF THE 5TH. P.M., YANKTON COUNTY, SOUTH DAKOTA. THAT THE ABOVE SURVEY AND PLAT WAS MADE AT MY REQUEST AND UNDER MY DIRECTION FOR THE PURPOSE OF LOCATING, MARKING AND PLATTING THE SAME, AND THAT SAID PROPERTY IS FREE FROM ALL ENCUMBRANCES. THE DEVELOPMENT OF THIS LAND SHALL CONFORM TO ALL EXISTING APPLICABLE ZONING SUBDIVISION AND EROSION AND SEDIMENT CONTROL REGULATIONS.

DATED THIS___DAY OF___ _____, ____

> KIMBERLY MUELLER, AS POWER OF ATTORNEY

STATE OF COUNTY OF DAY OF_

ON THIS __DAY OF _____, ___, BEFORE ME, THE UNDERSIGNED OFFICER, PERSONALLY APPEARED KIMBERLY MUELLER, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE WITHIN INSTRUMENT AND WHO ACKNOWLEDGED TO ME THAT SHE AS HAVING POWER OF ATTORNEY, EXECUTED THE SAME FOR THE PURPOSES THEREIN CONTAINED. MY COMMISSION EXPIRES

NOTARY PUBLIC

RESOLUTION OF APPROVAL

WHEREAS, IT APPEARS THAT THE OWNERS THEREOF HAVE CAUSED A PLAT TO BE MADE OF THE FOLLOWING REAL PROPERTY: LOTS I AND 2 OF J & P FRICK ADDITION, IN THE SWI/4 OF THE SEI/4 OF SECTION 8, AND IN THE NWI/4 OF THE NEI/4 OF SECTION 17, ALL IN T94N, R55W OF THE 5TH. P.M., YANKTOI YANKTON COUNTY, SOUTH DAKOTA, AND HAVE SUBMITTED SUCH PLAT TO THE COUNTY COMMISSION OF YANKTON COUNTY, SOUTH DAKOTA FOR APPROVAL. NOW THEREFORE BE IT RESOLVED, THAT SUCH PLAT HAS BEEN EXECUTED ACCORDING TO THE LAW AND SAME IS HEREBY APPROVED. THE COUNTY AUDITOR IS HEREBY AUTHORIZED AND DIRECTED TO ENDORSE ON SUCH PLAT A COPY OF THIS RESOLUTION AND CERTIFY THE SAME.

, COUNTY AUDITOR OF YANKTON COUNTY, SOUTH DAKOTA, DO HEREBY CERTIFY THAT THE WITHIN AND FOREGOING IS A TRUE COPY OF THE RESOLUTION PASSED BY THE BOARD OF COUNTY COMMISSIONERS OF YANKTON COUNTY, SOUTH DAKOTA, ON THIS ____ DAY OF _

COUNTY AUDITOR

CHAIRMAN OF THE BOARD OF COUNTY COMMISSIONERS

DIRECTOR OF EQUALIZATION CERTIFICATE

, DIRECTOR OF EQUALIZATION, YANKTON COUNTY, SOUTH DAKOTA, CERTIFY THAT I HAVE RECEIVED A COPY OF THE FOREGOING PLAT. DATED THIS ____ DAY OF___

DIRECTOR OF EQUALIZATION, YANKTON COUNTY

TREASURER CERTIFICATE

I, _____, TREASURER OF YANKTON COUNTY, SOUTH DAKOTA, CERTIFY THAT ALL TAXES WHICH ARE LIEN UPON ANY LAND INCLUDED IN THE ABOVE PLAT, AS SHOWN BY THE RECORDS OF THIS OFFICE, HAVE BEEN PAID. DATED THIS ____ DAY OF _____.

TREASURER, YANKTON COUNTY

REGISTER OF DEEDS CERTIFICATE

REGISTER OF DEEDS, YANKTON COUNTY, SOUTH DAKOTA, CERTIFY THAT I HAVE RECEIVED THE ORIGINAL PLAT, FILED FOR RECORD THIS ____ DAY OF ______ ______O'CLOCK ____.M., AND DULY RECORDED IN BOOK NO. ___, PAGE ____.

PREPARED BY: TOM WEEK 407 REGAL DRIVE YANKTON, SOUTH DAKOTA 57078 605-665-8333

REGISTER OF DEEDS, YANKTON COUNTY, SD

Plat Approval Application 94239 Applicant Bill Testing Fees Paid \$100.00

Created February 10, 2023 Final | Plat of Lots 1 and 2 of J & P Frick Addition, in the SW1/4 of the SE1/4 of Section 8, and in the NW1/w of the NE1/4 of Section 17, T94N, R55W of the 5th P.M., Yankton County, South Dakota. This plat vacates previously platted Lot A of Lot 4

Number 94239 of Schlaefli's 3rd. Addition in the W1/2 of the SE1/4 of Section 8, T94N, R55W of the 5th P.M., Yankton County, SD. Recorded on May 23, 2000, and Recorded in Book S18, Page 183 | Pamela and John Frick Revocable Trust | 30499 SW JIM RIVER RD | 06.008.100.276 Submitted by BillTesting on 2/10/2023



Applicant

Bill Testing

test@test.com

Parcel search Completed On 2/10/2023 10:42 AM EST by bconkling



06.008.100.276 30499 SW JIM RIVER RD YANKTON FRICK, PAMELA J REV TRUST (D) 17.860

Requested Information Completed On 2/10/2023 10:45 AM EST by bconkling

Fee

\$100.00

Plat Type Final

Development Information

Plat Name

Plat of Lots 1 and 2 of J & P Frick Addition, in the SW1/4 of the SE1/4 of Section 8, and in the NW1/w of the NE1/4 of Section 17, T94N, R55W of the 5th P.M., Yankton County, South Dakota.

This plat vacates previously platted Lot A of Lot 4 of Schlaefli's 3rd. Addition in the W1/2 of the SE1/4 of Section 8, T94N, R55W of the 5th P.M., Yankton County, SD. Recorded on May 23, 2000, and Recorded in Book S18, Page 183

Section No: 8 Township No: 94 Range 55 Number of Lots/Tracts Number of Acres 17.86 How is this property currently being used? AG What is the proposed use of the property? AG

Surveyor/Engineer Information

Firm Name

2

Tom Week

Address

407 Regal dr

City

Yankton

.

SD

Zip

57078

Contact Person

Tom Week

Phone

605-665-8333

Property Owner Information

Owner Name

Pamela and John Frick Revocable Trust

Address

30499 SW JIM RIVER RD

City

Yankton

State

SD

Zip

57078

Owner Phone

605-665-8333

Contact Person

Tom Week

If the property owner is represented by an authorized agent, please provide the following:

Agent's name

Kim Mueller

Agent's Title Power of Attorney

Plat Information

No

What is/are the lot size(s)

11.627, 9.971 acres

Is this plat an existing farmstead

Yes

If a farmstead, how may acres are surrounding it

9.971

The Yankton County Zoning Ordinance requires a variance from minimum lot sizes. Are you willing to apply for the variance, if necessary? Yes

Is this property to have construction on it

No

If Yes:

Construction contractors Name, Address, and phone number (If applicabale)

Plat Approval Items Completed On 2/14/2023 1:03 PM EST by bconkling

In order to insure prompt approval of your plat, please complete the following steps before submitting your application

Upload Copy of Plat

Scanned Document_20230210_090903.pdf

Plat Approval Applicant Checklist

Plat has been approved by the City of Yankton, if within the ETJ or 3 mile buffer zone?

All required signatures notarized (owner(s), surveyor)?

Taxes paid at County Treasures?

County Treasurer's signature?

Submit Application Completed On 2/14/2023 1:04 PM EST by bconkling Owner Certification

Owner(s) John and Pam Frick Trust

This is to certify that the aforementioned owner(s) undersigned is/are the sole owner(s) of the property described above on the date of this application, and that I/we have read and understand Section207 of the Yankton County Zoning Ordinance.

Owner Signature

tim Mulh

Owner Signature

If represented by an Agent, please provide name and signature below

Agent Name

This is to certify that (Agent) acting by and through the undersigned, its duly authorized agent is/are the sole owner(s) of the property described above on the date of this application, and that I have read and understood Section207 of the Yankton County Zoning Ordinance.

Agent Signature

Payment Completed On 2 Fees Paid	2/14/2023 1:04 PM EST by bconkling	VIEW RECE
Fee Name	Recipient	Amount
Fee	Planning and Zoning	\$100.00
Confirmation Data	1	
Payment Method		Check
Confirmation Number		11019
Amount Paid		\$100.00
C C	n Review Completed On 2/14/2023 1:04 PM EST by Inning Commission Checklist	/ bconkling
Please follow these steps: Plat has been approved by	the City of Yankton, if within the ETJ or 3 mile but	fer zone?
	arized (owner(s), surveyor)?	
	sures and County Treasurer's signature?	
	ctor of Equalization and signed?	
Plat name has been approv Street authority signature (
\$100.00 Fee Paid at Zoning	g Office?	
Plat has been scheduled/a	pproved by the Yankton County Planning Commis	ision?

5/6

Planning Commission date:

03/14/2023

Plat Approval Application (Planning Commission) Completed On 2/14/2023 1:04 PM EST by bconkling

.

Plat Approval Application (Planning Commission) External Notes

Documents

Internal Notes

Documents

Yankton County, South Dakota

Payment number Date paid Payment method

Receipt

February 14, 2023 01:04 PM

11019

Check

Paid by Bill Testing test@test.com

\$100.00 paid on February 14, 2023

Plat Approval Application

Application ID: 94239

Description

Amount

Fee

\$100.00

Yankton County Planning Commission Yankton County Board of Adjustment

Date filed: 2/27//2023

Applicant	Smit - PLAT					
District type: 🖂 A	AG R1-Low R2-Moderate R3-High C-Comm.					
LC – Lakeside Commercial RT-Rural Transitional						
Variance needed: Section 513 (4) – Existing Farmstead/Home Section 515 Section 705						
	Section 715 Section 805					
	Other 605					
North Side/ Yard lot lin	e: feet or no closer than feet to the lot line.					
East Side / Yard lot line	: feet or no closer than feet to thelot line.					
South Side / Yard lot lin	he:feet or no closer thanfeet to thelot line.					
West Side / Yard lot line	efeet or no closer than feet to thelot line.					
Accessory Building Size Proposed building size: Proposed sidewall heigh Affects Section:						

NOTE:

Plat of Tract A of Katie's Addition, in the SE1/4 of the NE1/4 of Section 17, T96N, R55W of the 5^{th} P.M., Yankton County, South Dakota

	You must provide the following:						
	ankton County Zoning Ordinance requires minimum lot						
sizes.							
1.Does	this lot/tract conform? TYes No						
2.What	2. What is/are the lot size(s) 9.955						
3. Is the	is (plat) an existing farmstead? XYes No						
4. If a f	farmstead, how many acres are surrounding it? 9.955						
5. The	Yankton County Zoning Ordinance requires a variance from						
minim	um lot sizes. Are you willing to apply for the variance, if						
necessa	ary? 🔀 Yes 🗌 No						
	is property to have construction on it? 📋 Yes 🛛 No						
If yes :							
	address and phone number of contractor(s)						
	Owner certification						
	to certify that <u>Katie Smit</u>						
	lersigned is/are the sole owner(s) of the property described						
above of	on the date of this application, and that I/we have read and						
underst	and Section207 of the Yankton county Zoning Ordinance.						
	Kete Shot -						
	Owner Signature						
	Owner Signature						
This is	C C						
This is acting b	to certify that						
acting t	to certify that						
acting t is/are th	to certify that						
acting t is/are th of this a	to certify that						
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Some plats of subdivisions and additions may require a Perpetual Road Maintenance Agreement prior to consideration.

YANKTON COUNTY PLANNING PLAT APPROVAL CHECKLIST

In order to insure prompt approval of your plat, please follow these steps:

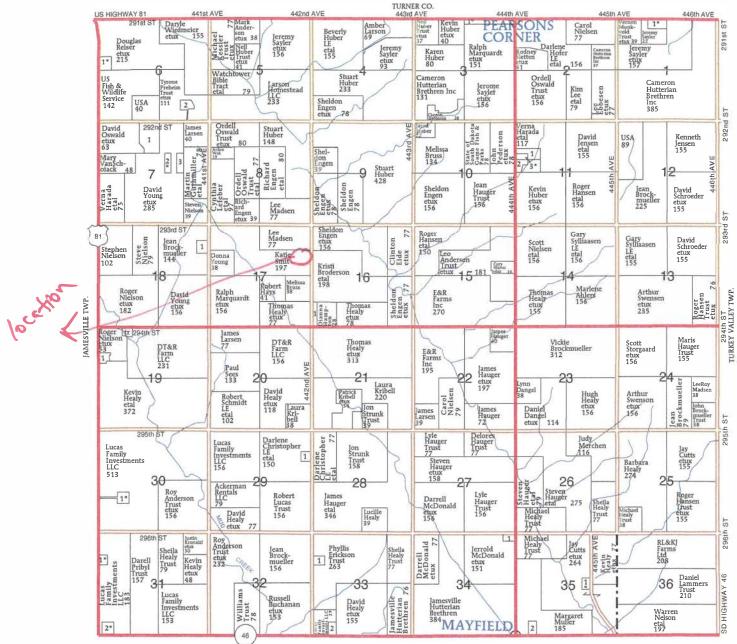
☑ Plat has been approved by the City of Yankton, if within the ETJ or 3 mile buffer zone?

- ☑ 1. All required signatures notarized (owner(s), surveyor)?
- ☑ 2. Taxes paid at County Treasures?
- ☑ 3. County Treasurer's signature?
- ☑ 4. Ownership verified by Director of Equalization and signed?
- ☑ 5. Street authority signature (DOT, Highway, Township)?
- ☑ 6. \$100.00 Fee Paid at Zoning Office?
- X 7. Plat has been scheduled/approved by the Yankton County Planning Commission?
- □ 8. County Planning Commission Chair signature?
- □ 9. Plat has been scheduled/approved by the Yankton County Board of County Commissioners?
- □ 10. County Commission Chairs signature?
- □ 11. County Auditor's signature?
- \Box 12. Plat has been filed with the Register of Deeds?

Planning Commission date: 03/14/2023 Board of Adjustment date: _____



R-55-W



WALSHTOWN TWP.

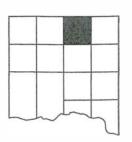
- MAYFIELD TOWNSHIP Section 1 Jensen, Corey etal 16 **SECTION 3** 1. Skjonsberg Sr, Ronald etux 6 SECTION 6 1. Kopejtka, Tracy etal 7 2. Massey, Larry 7
- SECTION 7 State of South Dakota Game Fish & Parks 17 Young, David etal 9 2. Larsen, James 8 3. SECTION 11 1. Kerns, Connie 14

 - 2. Sorensen, Ethel 8
- 3. Kerns-Grams, Connie etal 17 SECTION 16 1. Highland, Corey 11 SECTION 18 1. Rye Trust 12 SECTION 19 1. Our Redeemer Lutheran

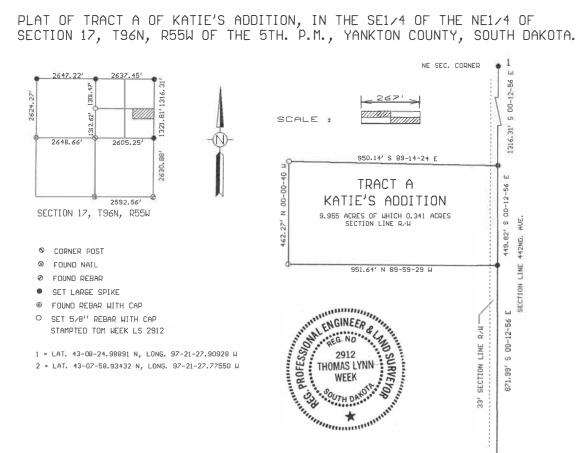
Church 9

SECTION 29 1. Jones, Judy 7 SECTION 30 1. VanBuren Sr, Lloyd etux 8 **SECTION 31** Lucas, Benjamin etux 6 1. 2. Kramer, Chris etux 9

SECTION 33 1. Brockmueller, Jean 11 2. Jensen, Donald 7 SECTION 34 1. St Columbia Church Mayfield 5 SECTION 35 1. Nelson, Rory etal 6 2. Nelson, Timothy 6



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E1/4 CORNER 2

SURVEYORS CERTIFICATE

I, THOMAS LYNN WEEK, REGISTERED LAND SURVEYOR IN YANKTON, SOUTH DAKOTA, HAVE AT THE DIRECTION OF THE OWNER, MADE A SURVEY OF TRACT A OF KATIE'S ADDITION, IN THE SE1/4 OF THE NEI/4 OF SECTION 17, T96N, R55W OF THE 5TH. P.M., YANKTON COUNTY, SOUTH DAKOTA. I HAVE SET IRON PINS AS SHOWN, AND SAID SURVEY AND PLAT ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATED THIS 20TH. DAY OF FEBRUARY, 2023.

THOMAS LYNN WEEK REG. LAND SURVEYOR REG. NO. 2912

ZONING ADMINISTRATOR

THE UNDERSIGNED, COUNTY ZONING ADMINISTRATOR OF YANKTON COUNTY, SOUTH DAKOTA, HEREBY CERTIFIES THAT THIS PLAT HAS BEEN REVIEWED BY ME OR MY AUTHORIZED AGENT IN ACCORDANCE WITH SECTION 513 (FARMSTEAD, MINIMUM LOT REQUIREMENTS) OF THE YANKTON COUNTY SUBDIVISION REGULATIONS, AND TRACT A OF KATIE'S ADDITION, DOES QUALIFY AS A FARMSTEAD.

ZONING ADMINISTRATOR

RESOLUTION OF COUNTY PLANNING COMMISSION

BE IT RESOLVED BY THE YANKTON COUNTY PLANNING COMMISSION, THAT THE ABOVE PLAT REPRESENTING TRACT A OF KATIE'S ADDITION, IN THE SE1/4 OF THE NE1/4 OF SECTION 17, T96N, R55W OF THE 5TH. P.M., YANKTON COUNTY, SOUTH DAKOTA, BE AND THE SAME IS HEREBY APPROVED.

CHAIRMAN, PLANNING COMMISSION

CERTIFICATE OF STREET AUTHORITY

THERE IS ACCESS TO TRACT A FROM 442ND. AVE., ANY FURTHER ACCESS POINTS WILL REQUIRE ADDITIONAL APPROVAL.

DATED THIS _____ DAY OF _____, ____.

SHEET 1 OF 2

TOWNSHIP/COUNTY APPROVAL

SHEET 2 OF 2

PLAT OF TRACT A OF KATIE'S ADDITION, IN THE SE1/4 OF THE NE1/4 OF SECTION 17, T96N, R55W OF THE 5TH. P.M., YANKTON COUNTY, SOUTH DAKOTA.

OWNERS CERTIFICATE

I, KATIE L. SMIT, DO HEREBY CERTIFY THAT I AM THE ABSOLUTE AND UNQUALIFIED OWNER OF THE ABOVE DESCRIBED PROPERTY: TRACT A OF KATIE'S ADDITION, IN THE SE1/4 OF THE NE1/4 OF SECTION 17, T96N, R55W OF THE 5TH. P.M., YANKTON COUNTY, SOUTH DAKOTA. THAT THE ABOVE SURVEY AND PLAT WAS MADE AT MY REQUEST AND UNDER MY DIRECTION FOR THE PURPOSE OF LOCATING, MARKING AND PLATTING THE SAME, AND THAT SAID PROPERTY IS FREE FROM ALL ENCUMBRANCES. THE DEVELOPMENT OF THIS LAND SHALL CONFORM TO ALL EXISTING APPLICABLE ZONING SUBDIVISION AND EROSION AND SEDIMENT CONTROL REGULATIONS.

DATED THIS___DAY OF____, ____.

KATIE L. SMIT

NOTARY PUBLIC

RESOLUTION OF APPROVAL

WHEREAS, IT APPEARS THAT THE OWNER THEREOF HAS CAUSED A PLAT TO BE MADE OF THE FOLLOWING REAL PROPERTY: TRACT A OF KATIE'S ADDITION, IN THE SE1/4 OF THE NE1/4 OF SECTION 17, T96N, R55W OF THE 5TH. P.M., YANKTON COUNTY, SOUTH DAKOTA, AND HAS SUBMITTED SUCH PLAT TO THE COUNTY COMMISSION OF YANKTON COUNTY, SOUTH DAKOTA FOR APPROVAL. NOW THEREFORE BE IT RESOLVED, THAT SUCH PLAT HAS BEEN EXECUTED ACCORDING TO THE LAW AND SAME IS HEREBY APPROVED. THE COUNTY AUDITOR IS HEREBY AUTHORIZED AND DIRECTED TO ENDORSE ON SUCH PLAT A COPY OF THIS RESOLUTION AND CERTIFY THE SAME.

I,_____, COUNTY AUDITOR OF YANKTON COUNTY, SOUTH DAKOTA, DO HEREBY CERTIFY THAT THE WITHIN AND FOREGOING IS A TRUE COPY OF THE RESOLUTION PASSED BY THE BOARD OF COUNTY COMMISSIONERS OF YANKTON COUNTY, SOUTH DAKOTA, ON THIS ____ DAY OF _____,

COUNTY AUDITOR

CHAIRMAN OF THE BOARD OF COUNTY COMMISSIONERS

DIRECTOR OF EQUALIZATION CERTIFICATE

I, _____, DIRECTOR OF EQUALIZATION, YANKTON COUNTY, SOUTH DAKOTA, CERTIFY THAT I HAVE RECEIVED A COPY OF THE FOREGOING PLAT. DATED THIS ___DAY OF _____, ____

DIRECTOR OF EQUALIZATION, YANKTON COUNTY

TREASURER CERTIFICATE

I, _____, TREASURER OF YANKTON COUNTY, SOUTH DAKOTA, CERTIFY THAT ALL TAXES WHICH ARE LIEN UPON ANY LAND INCLUDED IN THE ABOVE PLAT, AS SHOWN BY THE RECORDS OF THIS OFFICE, HAVE BEEN PAID. DATED THIS ____ DAY OF _____, ____.

TREASURER, YANKTON COUNTY

REGISTER OF DEEDS CERTIFICATE

I, _____, REGISTER OF DEEDS, YANKTON COUNTY, SOUTH DAKOTA, CERTIFY THAT I HAVE RECEIVED THE ORIGINAL PLAT, FILED FOR RECORD THIS ___ DAY OF _____, ____, _____O'CLOCK ___.M., AND DULY RECORDED IN BOOK NO. ___, PAGE ____.

24

PREPARED BY: TOM WEEK 407 REGAL DRIVE YANKTON, SOUTH DAKOTA 57078 605-665-8333

REGISTER OF DEEDS, YANKTON COUNTY, SD

Plat Approval Application 96952 Fees Paid \$100.00

Applicant Bill Conkling Created February 21, 2023

Number 96952 Final | Plat of Tract A of Katie's Addition, in the SE1/4 of the NE1/4 of Section 17, T96N, R55W of the 5th P.M., Yankton County, South Dakota | Katie Smit | 45459 276 St | 08.017.100.020 Submitted by bconkling on 2/21/2023



Applicant

Bill Conkling

6052604447

Bill@co.yankton.sd.us

Parcel search Completed On 2/21/2023 4:35 PM EST by bconkling



ParcelID	Address	City	OwnerName	Acres
08.017.100.020	29323 442 AVE	IRENE	SMIT, KATIE L (D)	79.000

Requested Information Completed On 2/21/2023 4:41 PM EST by bconkling

Fee \$100.00

Plat Type

Final

Development Information

Plat Name

Section No:

17

Township No:

96

Range

55

Number of Lots/Tracts

1

Number of Acres

79.0

How is this property currently being used? AG

What is the proposed use of the property? AG

Surveyor/Engineer Information

Firm Name

Tom Week

Address

407 Regal dr

City

Yankton

State

SD

Contact Person

Tom Week

Phone

6056658333

Property Owner Information

Owner Name

Katie Smit

Address

45459 276 St

City

Parker

State

SD

Zip

57053

Owner Phone

6056658333

Contact Person

Tom Week

If the property owner is represented by an authorized agent, please provide the following:

Agent's name

Agent's Title

Plat Information

Does this lot/tract conform with Yankton County Zoning Ordinance required minimum lot sizes?

No

9.955

Is this plat an existing farmstead

Yes

If a farmstead, how may acres are surrounding it

9.955

The Yankton County Zoning Ordinance requires a variance from minimum lot sizes. Are you willing to apply for the variance, if necessary? Yes

Is this property to have construction on it No

If Yes:

Construction contractors Name, Address, and phone number (If applicabale)

Plat Approval Items Completed On 2/27/2023 9:21 AM EST by bconkling

In order to insure prompt approval of your plat, please complete the following steps before submitting your application

Upload Copy of Plat

Smit plat.pdf

Plat Approval Applicant Checklist 0

Plat has been approved by the City of Yankton, if within the ETJ or 3 mile buffer zone?

All required signatures notarized (owner(s), surveyor)?

Taxes paid at County Treasures?

County Treasurer's signature?

Submit Application completed On 2/27/2023 9:21 AM EST by boonkling Owner Certification

Owner(s)

Katie Smit

This is to certify that the aforementioned owner(s) undersigned is/are the sole owner(s) of the property described above on the date of this application, and that I/we have read and understand Section207 of the Yankton County Zoning Ordinance.

Owner Signature

a Shi

Owner Signature

If represented by an Agent, please provide name and signature below

Agent Name

This is to certify that (Agent) acting by and through the undersigned, its duly authorized agent is/are the sole owner(s) of the property described above on the date of this application, and that I have read and understood Section207 of the Yankton County Zoning Ordinance.

Agent Signature

Payment Completed On 2/27/2023 9:21 AM EST by bconkling Fees Paid							
Fee Name	Recipient		Amount				
Fee	Planning and Zoning		\$100.00				
Confirmation Data							
Payment Method		Check					
Confirmation Number							
Amount Paid		\$100.00					
Planning Commission Review Completed On 2/27/2023 9:22 AM EST by bconkling Plat Approval Planning Commission Checklist							
Please follow these steps: Plat has been approved by the City of Yankton, if within the ETJ or 3 mile buffer zone?							
All required signatures notarized (own							
Taxes paid at County Treasures and County Treasurer's signature? Ownership verified by Director of Equalization and signed?							
Plat name has been approved by Register of Deeds?							
Street authority signature (DOT, Highw	ay, Township)?						
\$100.00 Fee Paid at Zoning Office?							
Plat has been scheduled/approved by	the Yankton County Planning Commission?						

Planning Commission date:

03/14/2023

External Notes

Documents

Internal Notes

Documents

 \mathcal{L}

Yankton County, South Dakota

Payment number Date paid Payment method

Receipt

394 February 27, 2023 09:21 AM Check

Paid by Bill Conkling Bill@co.yankton.sd.us

\$100.00 paid on February 27, 2023

Plat Approval Application

Application ID: 96952

Description

Amount

Fee

\$100.00