

**CITY OF ABILENE BOARD OF ZONING APPEALS
MEETING AGENDA
ABILENE PUBLIC LIBRARY, 209 NW FOURTH STREET
JULY 7, 2026 - 4:00 PM**

Agenda Item

1. Call to Order

2. Roll Call:

- a. Chair Rod Boyd, Vice Chair Travis Sawyer, Bill Marshall, Eric Anderson, Matt Mead, Kristyn Anderson, Alan Baier

3. Approval of Agenda

- a. Declaration of Conflict of Interest/Ex Parte Communication by members

4. Approval of Meeting Minutes

- a. June 2, 2026

5. Unfinished Business

- a. **Public Hearing, BZA 26-7**, a request from Vertical Bridge, on behalf of Kiddco, LLC, to allow a variance from Article 23, Section 23-601 of the Airport Overlay District zoning regulations of the City of Abilene, KS. The applicant is requesting a communications guyed tower that would exceed the height limitations. The requested overall structure height is 305'0".
The site address is 2200 Blk Fair Rd, Abilene, KS.
 - *Staff Report
 - *Open Public Hearing
 - *Applicant/Public Comments
 - *Close Public Hearing
 - *Commission Discussion and Action

6. Adjournment

Abilene Board of Zoning Appeals Minutes
Abilene Public Library
209 NW 4th St., Abilene, KS
June 2, 2026, immediately following the PC meeting



1. Call to Order by Vice Chair Sawyer at 4:07 p.m.

2. Roll Call

Board of Zoning Appeals members present: Vice Chair Travis Sawyer, Matt Mead, Kristyn Anderson, Eric Anderson, Alan Baier (arrived at 4:26 p.m.)

Absent: Chair Rod Boyd, Bill Marshall

Staff present: DCM/Community Development Director Kari Zook, Administrative Manager Kellie Olson, City Inspector Travis Steerman

Public present: Kiley Koffman, Kenton Crider, Clint Koffman, Diane Ingram

3. Approval of Agenda

Motion by Mead to approve the agenda as written, seconded by K Anderson. Motion carried unanimously 4-0.

Declaration of Conflict of Interest/Ex Parte Communications - None

4. Approval of Minutes

Motion by Mead to approve the February 3, 2026, minutes as written, seconded by E Anderson. Motion carried unanimously 4-0.

5. Public Hearing for BZA 26-6, a request from Kenton Crider to allow a variance from Article 20, Section 20-201(2)(a) of the zoning regulations of the City of Abilene, KS. The applicant is requesting an accessory structure that would exceed the maximum square footage allowance and sidewall height allowance. The site address is 600 S Cedar St, Abilene, KS

The staff report was discussed. Vice Chair Sawyer opened the public hearing at 4:16 p.m. The applicant was present at the meeting to discuss the site plan, intention of the accessory structure for personal storage of an RV and boat, and their plans to work with a surveyor to obtain a LOMA since the property is partially in the floodplain. Discussion was held regarding the variance justification and hardships presented by the applicant. The 604 S Cedar St lot was purchased at the sheriff's tax sale for the purpose of building an accessory structure. The lot combination of 600 S Cedar St and 604 S Cedar St created one large lot totaling 26,250 square feet. The primary dwelling was built in 1920, creating a historical nature acceptance by the commission that the main floor living area of 1,120 square feet creates an unfortunate limit on the size of the accessory structure allowance on the parcel. Only one response from the notices of public hearing was received by city staff, and it was in favor of granting the variance. No negative responses were received prior to or during the public hearing.

The public hearing was closed at 4:38 p.m.

Motion by K Anderson to approve the variance request as requested for a 1,500 square foot accessory structure with 12-foot sidewalls, with the stipulation that this structure may not conduct any commercial business activity, seconded by E Anderson. Motion carried unanimously 5-0.

There is a 30-day appeal period which shall expire on July 2, 2026.

6. Adjournment

Staff Comments: There will be a Board of Zoning Appeals meeting on July 7, 2026, at 4 p.m. for a variance request in relation to the Airport Overlay District.

Motion by K Anderson to adjourn at 4:45 p.m., seconded by Mead. Motion carried unanimously 5-0.

ATTEST:

Board of Zoning Appeals

Community Development

Staff Report



TO: Board of Zoning Appeals
FROM: Kari Zook, DCM/Com Devo Director
SUBJECT: BZA 26-7, 2200 Blk Fair Rd Variance
DATE: July 7, 2026

<u>APPLICANT:</u> Vertical Bridge Tricia Becker, Agent 22 W Atlantic Ave #310 Delray Beach, FL 33444	<u>PROPERTY OWNER:</u> Greg Huston KIDDCO, LLC 1650 Indy Rd Abilene, KS 67410	<u>APPLICATION DATE:</u> May 22, 2026
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BACKGROUND:

- An application requesting a variance from Article 23, Section 23-601 of the Airport Overlay District zoning regulations was received by Tricia Becker, Agent of Vertical Bridge, on behalf of Greg Huston, Kiddco, LLC on 5/22/26.
 - *Section 23-6 Height Limitations:*
23-601: No structure shall be erected, altered, or maintained, and no tree shall be allowed to grow in the Airport Overlay District to a height which may in any way create an interference with the operations of the Abilene Municipal Airport.
- The site address is 2200 Blk Fair Rd, and is located outside the city limits, but within the Airport Overlay District Airport Airspace Drawing (attached for reference).
- The proposed 300'0" communications guyed tower will be installed within a 100' x 100' leased space at the above referenced site address. The overall structure height of the tower will be 305'0".
- This land use requires a conditional use permit through Dickinson County Planning & Zoning, and will be presented to their Planning Commission for approval upon the completion of the variance request process with the City of Abilene.
- Staff consulted with Diane Hofer of Olsson Engineering, our airport lead engineering team, regarding this variance request. Her response is as follows:
 - *The tower's height violates Article 23 of the city's zoning regulations, which is the airport overlay. The tower exceeds the height limit by 62 feet. Based on the FAA's airspace analysis, a variance appears to be acceptable in this situation, provided that:*
 - 1. The Airport Board or airport manager are consulted. They may be aware of certain local flights that could be affected, such as aerial crop sprayers or student training. Let them know that the tower will be 305 feet above ground level and 373 feet above the runway; and*
 - 2. The structure is marked/lighted in accordance with FAA's letter, which references FAA Advisory Circular 70/7460-1M Change 1, Obstruction Marking and Lighting, a med-dual system – Chapters 4, 8 (M-Dual) & 15.*
- Included with the staff report are the variance application, property deed, variance justification, FAA's airspace analysis report, Airport Board's meeting minutes from 5/4/26, and the proposed site plan.
- A member of the Airport Board and/or their staff liaison will be present at the meeting to discuss and answer any questions.

Direction	Zoning Classification	Land Use(s)
North	AG40 (DKCO)	Farm ground
East	AG40 (DKCO)	Farm ground/residential
South	AG40 (DKCO)	Farm ground/residential
West	AG40 (DKCO)	Farm ground

The notice of public hearing was published in the Abilene Reflector Chronicle on June 11, 2026, and written notices were sent by mail on June 11, 2026, to property owners within 1,000 feet of the site address as required by Article 25, Section 25-701 of the zoning regulations.

CITIZEN COMMENTS: None received

ACTION:

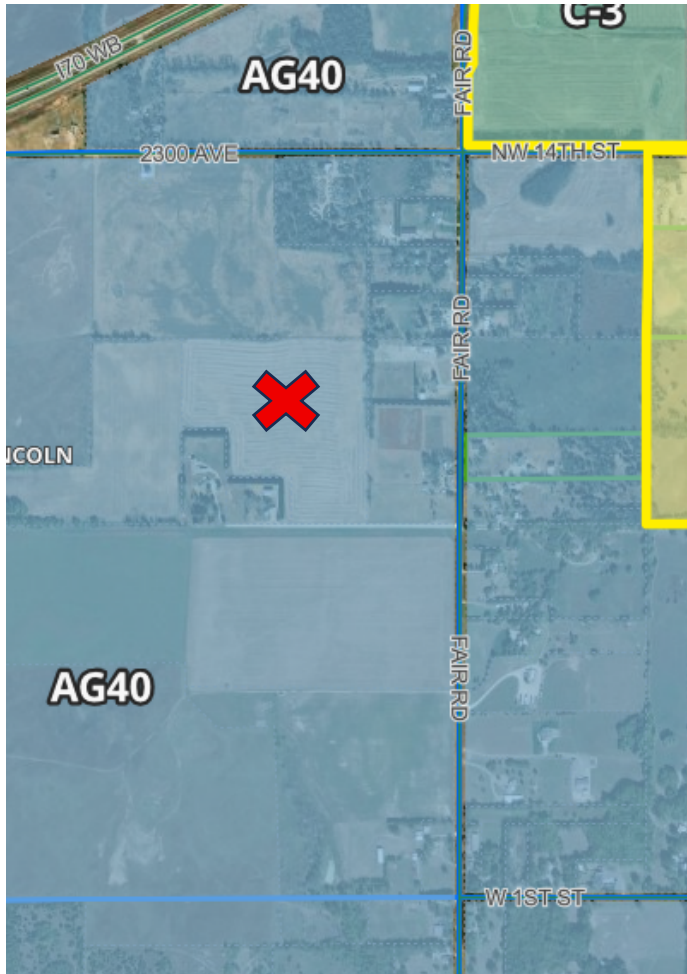
The Board of Zoning Appeals may:

1. Approve the variance as requested.
2. Approve the variance with amendments.
3. Disapprove the variance with findings.

NOTES:

Upon conclusion of the hearing, the board will render a decision on the request. If a person is aggrieved by the decision, they may appeal the decision to the Dickinson County District Court within 30 days.

*The appeal period will expire on August 6, 2026.





APPLICANT SITE NAME:

US-KS-5112 RED


BUD LAKE

TOWER TYPE:

300'-0" GUYED TOWER

PROJECT:

RAWLAND

AERIAL MAP	SITE INFORMATION
	<p>PROJECT: RAWLAND</p> <p>CELL SITE NAME: US-KS-5112 RED BUD LAKE</p> <p>CELL SITE ADDRESS: 2200 BLOCK FAIR RD ABILENE, KS 67410</p> <p>LESSOR: KIDDCO LLC 1650 INDY RD ABILENE, KS 67410</p> <p>CONTACT: L.L. CONTACT PHONE: TBD</p> <p>TOWER INFORMATION: LATITUDE: 38° 55' 30.74" N (NAD 83) LONGITUDE: 97° 15' 59.86" W (NAD 83) GROUND ELEV: 1221.0' AMSL OVERALL STRUCTURE HT: 305'-0" AGL TOWER HEIGHT: 300'-0" AGL TOWER TYPE: GUYED TOWER APPLICANT CL: 200'-0" AGL</p> <p>CONTACT: CORPORATE HEADQUARTERS PHONE: (561) 849-6367 (VERTICAL BRIDGE)</p>

CITY OF ABILENE, KANSAS

DEVELOPMENT APPROVAL APPLICATION FORM

419 N. Broadway · Abilene, Kansas 67410 · Tel: (785) 263-2355 · Fax: (785) 263-2552 · www.abilenecityhall.com

INSTRUCTIONS: This Application and all required fees and information must be submitted in accordance with the Code of the City of Abilene and the City of Abilene Zoning and Subdivision Regulations. All information requested in this application must be provided and answered completely.

PART I: TO BE COMPLETED BY APPLICANT

APPLICATION INFORMATION

APPLICATION FOR (CHECK APPROPRIATE BOX):

- | | |
|---|---|
| <input type="checkbox"/> ADMINISTRATIVE APPEAL | <input type="checkbox"/> LOT SPLIT |
| <input type="checkbox"/> ANNEXATION | <input type="checkbox"/> REPLAT |
| <input checked="" type="checkbox"/> VARIANCE | <input type="checkbox"/> PRELIMINARY PLAT |
| <input type="checkbox"/> COMPREHENSIVE PLAN AMENDMENT | <input type="checkbox"/> FINAL PLAT |
| <input type="checkbox"/> CONDITIONAL USE PERMIT | <input type="checkbox"/> REZONING |
| <input type="checkbox"/> DEVELOPMENT CODE AMENDMENT | <input type="checkbox"/> VACATION OF PLAT |

FOR OFFICIAL USE ONLY

Appn Number: BPA 26-7
Date Received: 5/22/26
Received By: KZ

BRIEF DESCRIPTION OF APPLICATION PURPOSE:

(US-KS-5112 RED BUD LAKE) Install a 300' 0" Guyed tower for a communications site within a 100' x 100' leased space.

(Overall structure height: 305'0") Please refer to the construction drawings for more details.

APPLICANT INFORMATION

APPLICANT/AGENT (If Not Property Owner):

Name: Tricia Becker, SSC, Agent to Vertical Bridge (tbecker@ssc.us.com) Tel: (913)359-1273
Business Name: Vertical Bridge Fax: ()
Address:
City: 22 W. Atlantic Av, #310, Delray Beach State: Florida 33444 Zip Code:
E-mail:

PROPERTY OWNER (If Different from Applicant/Agent):

Name: Greg Huston greghuston1973@gmail.com Tel: (785) 280-0260
Business Name: KIDDCO LLC Fax: ()
Address:
City: 1650 INDY RD, ABILENE, State: Kansas 67410 Zip Code:
E-mail:

ENGINEER/ARCHITECT/SURVEYOR:

Name: Christopher Giannotti Tel: ()
Business Name: Selective Site Consultants Fax: ()
Address:
City: 7171 W. 95th St, Ste 600, Overland Park State: Kansas Zip Code: 66212
E-mail: cgiannotti@ssc.us.com

PROPERTY INFORMATION

PROPERTY ADDRESS: 2200 BLOCK FAIR RD ABILENE, KS 67410

PARCEL ID: 0211261301001004000 (S,T,R 13, 13C,1E)

ZONING: Existing: AG40 Proposed: _____

LAND USE: Existing: Farm land Proposed: _____

GROSS SIZE OF PLAT/LOT:

Residential: _____ Commercial: _____ Industrial: _____ Other: AG Total: 31.68

NUMBER OF LOTS:

Residential: _____ Commercial: _____ Industrial: _____ Other: Farm Total: 1

IMPROVEMENT CHARACTERISTICS:

Number of Buildings or Structures: _____ Total Building Area: _____

Maximum Height of Buildings or Structures: 300' tower Total Impervious Area: _____

EXISTING PUBLIC FACILITIES:

	Public	Private	Other (Describe)
Water Service:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____
Wastewater Service:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____
Roadway Access:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____

FLOODPLAIN INFORMATION:

Floodway: Yes No FIRM Map-Panel Number: _____

Floodway Fringe: Yes No Zone: _____

ARE ANY OTHER PERMITS OR DEVELOPMENT APPROVALS REQUIRED, APPLIED FOR OR RECEIVED FOR THE APPLICATION PROPERTY BY THE CITY OR ANY OTHER JURISDICTION OR AGENCY?

Yes No If Yes, Describe Briefly and Attach a Copy of Each Permit, Approval or Application

APPLICANT/PROPERTY OWNER CERTIFICATION*

I/we acknowledge receipt of the instruction sheet explaining the method of submitting this application. I/we realize that this application cannot be processed unless it is completely filled in; is accompanied by a current abstractor's certificate as required in the instruction sheet; and is accompanied by the appropriate fee. I/we further certify that the foregoing information is true and correct to the best of our knowledge. I/we acknowledge that the City of Abilene Planning Commission, Board of Zoning Appeals or City Commission shall have authority to impose such conditions as it deems necessary in order to serve the public interest and welfare.

Lucia Becker
Applicant Signature

05-20-2026
Date

JLW
Property Owner Signature

5-22-26
Date

* This Application must bear the signature(s) of the property owner(s). If an authorized agent signs on the owner's behalf, the agent shall sign his own name and attach the owner's written notarized authorization to this Application.

PART II - TO BE COMPLETED BY STAFF

DOCUMENTS TO BE SUBMITTED WITH APPLICATION**

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> Copy of Deed | <input type="checkbox"/> Easements and Covenants | <input type="checkbox"/> Location Map |
| <input checked="" type="checkbox"/> Site Plan | <input type="checkbox"/> Preliminary Plat | <input type="checkbox"/> Final Plat |
| <input type="checkbox"/> Infrastructure Plans | <input type="checkbox"/> Development Agreement | <input type="checkbox"/> Grading and Stormwater Plans |
| <input type="checkbox"/> Elevation Survey | <input type="checkbox"/> Traffic Impact Study | <input type="checkbox"/> Construction Plans |
| <input type="checkbox"/> Performance Agreement | <input type="checkbox"/> Proof of Notification | <input type="checkbox"/> Utility Plans |
| <input type="checkbox"/> Text Amendment Language | <input type="checkbox"/> Property Owner List | <input type="checkbox"/> Comprehensive Plan Amendment Justification |
| <input type="checkbox"/> Annexation Boundary Map | <input type="checkbox"/> Operating Characteristics Report | <input type="checkbox"/> Administrative Appeal Justification |
| <input checked="" type="checkbox"/> Variance Justification | <input type="checkbox"/> Other _____ | |

Additional document requirements provided to applicant on _____. The applicant is advised that the application is not accepted for public review until such time as the above identified documents are submitted and a Determination of Complete Application is certified.

<u>Greg Houston / Kiddco LLC</u> Name	<u>Partner</u> Title
<u>[Signature]</u> Signature	<u>5-22-26</u> Date

** Number of copies for submission determined by Zoning Administrator. The Zoning Administrator may request additional information as deemed necessary to properly evaluate the permit application.

APPLICATION REVIEW

DECISION-MAKING BODY: Staff Planning Commission
 City Commission Board of Zoning Appeals

DATE OF INITIAL HEARING(S): BZA 7/7/26

FEE AMOUNT: \$ 250 ✓ **DATE FEE PAID:** 5/20/26 via CC

DETERMINATION OF COMPLETE APPLICATION:
I certify that the Development Approval Application and attached documents are sufficient in form and content for review and recommendation by the decision-making bodies of the City of Abilene. As such, all required notifications and hearings may proceed pursuant to City regulations and procedures. This certification does not preclude the review, recommendation and/or decision-making bodies from requesting additional information as deemed necessary to serve the public interest.

<u>Kari Zook</u> Name	<u>Com Dev Director</u> Title
<u>[Signature]</u> Signature	<u>5/22/26</u> Date



Entered in transfer record in my office
 this 7 day of March A.D. 24
Jeanne Gungor
 Co. Clerk

 Deputy Co. Clerk



STATE OF KANSAS, DICKINSON COUNTY
 Rose Johns, Register of Deeds
 Book: D273 Page: 116-117
 Receipt #: 288877
 Pages Recorded: 2
 Cashier Initials: RECORD
 Date Recorded: 3/4/2024 4:15:50 PM
 Recording Fee: \$38.00
Rose Johns

MAIL TO:
 KIDDCO, LLC
 1650 Indy Rd
 Abilene, KS 67410

STATUTORY WARRANTY DEED

Dennis Eugene Garver aka Dennis E. Garver, a single person, Grantor, conveys and warrants to
 KIDDCO, LLC, Grantee, the following described premises, to-wit:

See attached "Exhibit A"

For the sum of One Dollar and other good and valuable consideration.
 Subject to: easements and restrictions of record, if any.
 "Grantor" and "Grantee" are used for the singular or plural as context requires.

Executed to be effective as of 3-1, 2024.

Dennis Eugene Garver
 Dennis Eugene Garver

State of Kansas, County of Dickinson} ss.

This instrument was acknowledged before me on 3-1, 2024 by: Dennis Eugene Garver.

My Commission Expires: 9-24-2027

Joleen Rankin
 Notary Public

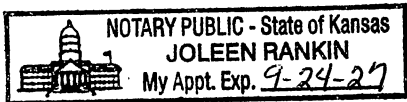


Exhibit A

Tract 1:

A parcel of land located in the Northeast Quarter (NE $\frac{1}{4}$) of Section Thirteen (13), Township Thirteen (13) South, Range One (1) East of the 6th Principal Meridian, Dickinson County, Kansas, more particularly described as follows by Thad C. Reynolds, L.S.#1354, on December 6, 2023:

Commencing at the Southeast corner of said Quarter; thence S89°31'08"W along the South line of said Quarter a distance of 1,669.29 feet to the Southeast corner of the West Half of the East Half of the Southwest Quarter of said Northeast Quarter (W $\frac{1}{2}$ E $\frac{1}{2}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$) ; thence N00°21 '00"W along the East line of the West half of the East half of the Southwest Quarter of said Northeast Quarter (W $\frac{1}{2}$ E $\frac{1}{2}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$) a distance of 674.00 feet to the Point of Beginning of parcel to be described;

- thence continuing N00°21'00"W along said East line a distance of 648.52 to the North line of the Southwest Quarter of the Northeast Quarter (SW $\frac{1}{4}$ NE $\frac{1}{4}$);
- thence S89°25'22"W along said North line a distance of 334.28 feet to the Northwest corner of the East Half of the Southwest Quarter of the Northeast Quarter (E $\frac{1}{2}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$) ;
- thence S00°22'05"E along the West line of said East Half (E $\frac{1}{2}$) a distance of 647.95 feet;
- thence N89°31'08"E a distance of 334.07 feet to the Point of Beginning.

Tract 2:

A parcel of land located in the Northeast Quarter (NE $\frac{1}{4}$) of Section Thirteen (13), Township Thirteen (13) South, Range One (1) East of the 6th Principal Meridian, Dickinson County, Kansas, more particularly described as follows by Thad C. Reynolds, L.S.#1354, on December 12,2023:

Commencing at the Southeast corner of said Quarter; thence S89°31'08"W along the South line of said Quarter a distance of 667.72 feet to the Point of Beginning of parcel to be described;

- thence continuing S89°31'08"W along the South line of said Quarter a distance of 601.72 feet;
- thence N00°19'55"W a distance of 330.00 feet;
- thence S89°31'08"W a distance of 382.87 feet;
- thence N00°19'54"W a distance of 344.00 feet:
- thence S89°31'08"W a distance of 17.20 feet to the East line of the West Half of the East Half of the Southwest Quarter (W $\frac{1}{2}$ E $\frac{1}{2}$ SW $\frac{1}{4}$) of the Northeast Quarter (NE $\frac{1}{4}$);
- thence N00°21'00"W along said East line a distance of 648.52 feet to the North line of the South Half of the Northeast Quarter (S $\frac{1}{2}$ NE $\frac{1}{4}$);
- thence N89°25'22"E along said North line a distance of 1,002.83 feet;
- thence S00°17'45"E a distance of 1,324.20 feet to the Point of Beginning.

05-12-2026

Variance justification to accompany the application:

City of Abilene’s Airport Overlay District – AO §11-108(4)

Vertical Bridge Site Name: US-KS-5112 Red Bud Lake

Request

The Applicant respectfully requests a variance from the height limitations of the Airport Overlay District (AP-O) to allow construction of a tower up to 305 feet above ground level, as approved by the Federal Aviation Administration. Currently the AOD height limitations would restrict the height of the WSS to approximately 100 feet. Variance requirements are found both within the AP-O, which Applicant believes are of primary importance to this request, but also within Section 25-4 of the City’s code.

AP-O Variance Requirements

To receive a variance within the AP-O, Section 23-10 of the City’s code provides that a variance shall be allowed:

1. Where the literal application of the regulations would result in practical difficulty or unnecessary hardship;
2. The relief granted would not be contrary to the public interest;
3. The relief granted would not create a hazard to air navigation;
4. The relief granted will do substantial justice; and
5. The relief granted will be in accordance with the spirit of Article 23 establishing the AP-O and regulating uses therein.

Discussion of AP-O Variance Requirements

1. Practical Difficulty or Unnecessary Hardship: The requested height of the tower is typical for towers situated in similar areas when considering the density of the population and radio frequency coverage area. Generally, the taller the tower the larger the geographic area that can served. The economics of the wireless business are such that you need a certain amount of population within the coverage area of a tower to make the tower economically feasible considering the cost to develop the tower and return on investment. In order to obtain the same coverage area and population coverage with a 100’ tall tower as you would get with a 305’ tower, you would need two to three 100’ towers, basically increasing the development costs three-fold to obtain the same amount of coverage.
2. Public Interest: The public interest is two-fold: (a) to have safe navigable airspace; and (b) to have state of the art wireless coverage. The FAA has found that the proposed

tower will not create a hazard to air navigation. Granting the relief requested would in fact be favorable to the public interest in providing wireless coverage to the surrounding area

3. Lack of Hazard to Air Navigation: The proposed tower has been reviewed through a full FAA extended aeronautical study process and has received a final Determination of No Hazard to Air Navigation, effective February 8, 2026. The FAA considered airport input, Part 77 airspace surfaces, and cumulative impacts, and concluded that the structure will not create a hazard to air navigation, provided FAA-mandated marking and lighting are installed.
4. Substantial Justice: Substantial justice refers to a **fair and equitable outcome**. Given the findings of the FAA, granting a variance would result in a fair and equitable outcome under the circumstances.
5. Within the spirit of the AP-O. The AP-O was established to prevent the creation of airport hazards that would endanger the lives of and property of users of the airport or occupants of land in its vicinity, not to prohibit federally approved structures that do not create hazards. Since the FAA has found that the proposed tower would not create such a hazard, and since the AP-O recognizes that variances may be necessary, the variance requested would be in the spirit of the AP-O.

Code Requirements for a Variance:

The Board of Zoning Appeals must find that all of the following criteria for the granting of a variance are met by the application:

- a. That the variance requested arises from such condition which is unique to the property in question and which is not ordinarily found in the same zoning district; and is not created by an action or actions of the property owner or the applicant;

APPLICANT RESPONSE: The property is within the zoning jurisdiction of Dickinson County, KS and is within an Agricultural Zoning District which allows a communications tower through the Conditional Use Permit process. What is unique to this property and not ordinarily found within the same zoning district is that it is within the City of Abilene's AP-O.

- b. That the granting of the variance will not adversely affect the rights of adjacent property owners or residents;

APPLICANT RESPONSE: Although applicant believes this issue will be and most aptly considered by Dickinson County Planning Commission tower will meet all development requirements of the County, including the setback requirements in consideration of the other properties. The proposed wireless telecommunications site will benefit the City of Abilene and Dickenson County residents.

c. That the strict application of the provisions of these zoning regulations of which variance is requested will constitute unnecessary hardship upon the property owner represented in the application;

APPLICANT RESPONSE: See paragraph 1 discussion under AP-O Variance Requirements, above.

d. That the variance desired will not adversely affect the public health, safety, morals, order, convenience, prosperity, or general welfare;

APPLICANT RESPONSE: The neighborhood is one of primarily agricultural uses and sparsely populated. The proposed facility will have a footprint of only 100' x 100'. As previously stated, the FAA extended aeronautical study's final Determination of No Hazard to Air Navigation, was effective February 8, 2026. The airport input, Part 77 airspace surfaces, and cumulative impacts, concluded that the structure will not create a hazard to air navigation, provided FAA-mandated marking and lighting are installed.

Granting the Variance is not contrary to public interest. The proposed facility supports essential wireless infrastructure, including broadband and emergency communications, while maintaining aviation safety. Granting the variance advances public safety and welfare without compromising aviation interests.

No Hazard to Aviation Safety

The FAA specifically evaluated and accepted limited penetration of protected airspace surfaces and found no substantial adverse effect on aircraft operations. Required obstruction marking and lighting will further enhance pilot visibility and safety. As such, the variance will not create a hazard to air navigation.

e. That granting the variance desired will not be opposed to the general spirit and intent of these zoning regulations.

APPLICANT RESPONSE: See paragraph 5 under AP-O Variance Requirements, above.

Consistency With Kansas State Law

Kansas law (K.S.A 66-2019) provides that local authorities may not impose height restrictions on wireless support structures near civilian airports that are greater than or in conflict with FAA determinations, except where existing restrictions apply. While we recognize that in this instance there were restrictions existing at the time of enactment of K.S.A 66-2019, it is noted that the Kansas legislature has recognized the importance of wireless communications within the state and that local regulations should be applied consistently with the FAA's regulations.

Conclusion

Based on the FAA's final Determination of No Hazard, compliance with marking and lighting requirements, and satisfaction of the variance standards in AO §11-108(4), the requested variance should be granted to allow construction of the proposed wireless support structure at the FAA-approved height.

Sincerely,

Tricia Becker, SSC, Agent to Vertical Bridge



Mail Processing Center
 Federal Aviation Administration
 Southwest Regional Office
 Obstruction Evaluation Group
 10101 Hillwood Parkway
 Fort Worth, TX 76177

Aeronautical Study No.
 2025-ACE-3672-OE

Issued Date: 12/30/2025

THE TOWERS, LLC
 RICHARD HICKEY
 22 West Atlantic Avenue
 Suite 310
 Delray Beach, FL 33444

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Antenna Tower US-KS-5112 - RED BUD LAKE
 County, State: Dickinson, Kansas

Collected Point(s):

Label	Latitude	Longitude	SE	DET AGL	AMSL
pt-1	38-55-30.74N	97-15-59.86W	1221 Ft	305 Ft	1526 Ft

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

Emissions from this site must be in compliance with the parameters set by collaboration between the FAA and telecommunications companies and reflected in the FAA 5G C band compatibility evaluation process (such as power, frequencies, and tilt angle). Operational use of this frequency band is not objectionable provided the Wireless Providers (WP) obtain and adhere to the parameters established by the FAA 5G C band compatibility evaluation process. **Failure to comply with this condition will void this determination of no hazard.**

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M Change 1, Obstruction Marking and Lighting, a med-dual system-Chapters 4,8(M-Dual),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)

X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

See attachment for additional condition(s) or information.

This determination expires on 06/30/2027 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is subject to review if an interested party files a petition that is received by the FAA on or before January 29, 2026. In the event an interested party files a petition for review, it must contain a full statement of the basis upon which the petition is made. Petitions can be submitted to the Manager, Rules and Regulations Group via email at OEPetitions@faa.gov, or via mail to Federal Aviation Administration, Air Traffic Organization, Rules and Regulations Group, 5th floor, 600 Independence Ave, SW., Washington, DC 20597. FAA encourages the use of email to ensure timely processing.

This determination becomes final on February 08, 2026 unless a petition is timely filed. In which case, this determination will not become final pending disposition of the petition. Interested parties will be notified of the grant of any review. Any questions regarding your petition, contact Rules and Regulations Group via telephone (202) 267-8783.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

This aeronautical study considered and analyzed the impact on existing and proposed arrival, departure, and en route procedures for aircraft operating under both visual flight rules and instrument flight rules; the impact on all existing and planned public-use airports, military airports and aeronautical facilities; and the cumulative impact resulting from the studied structure when combined with the impact of other existing or proposed structures. The study disclosed that the described structure would have no substantial adverse effect on air navigation.

An account of the study findings, aeronautical objections received by the FAA during the study (if any), and the basis for the FAA's decision in this matter can be found on the following page(s).

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact Luke Wray, at 1-817-222-4559, or luke.w.wray@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-ACE-3672-OE.

Signature Control No: 671403867-688342821

(DNH)

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Additional Information

Frequency Data

Map(s)

cc: FCC

Additional information for ASN 2025-ACE-3672-OE

Part 77 - Title 14 CFR Part 77, Safe, Efficient Use and Preservation of the Navigable Airspace

LOCATION OF PROPOSED CONSTRUCTION

The proposed antenna tower would be located approximately 1.71 NM northwest of the approach end of RWY 18 for Abilene Municipal Airport (K78), Abilene, KS.

OBSTRUCTION STANDARDS EXCEEDED

The proposal is identified as exceeding the obstruction standards of 14 CFR Part 77 as applied to K78:

77.17 (a)(5) The surface of a takeoff and landing area of an airport or any imaginary surface established under 77.19, 77.21, or 77.23.

77.19 (b) Conical surface. A surface extending outward and upward from the periphery of the horizontal surface at a slope of 20 to 1 for a horizontal distance of 4,000 feet.

-----> Exceeds by 62 feet.

CIRCULARIZATION AND NEGOTIATIONS

The Notice of Preliminary Findings letter issued on September 9th, 2025, stated that the structure, as filed, could result in a substantial adverse effect and would warrant a Determination of Hazard to Air Navigation.

To facilitate the public comment process, this aeronautical study was circularized on November 18th, 2025, to all known aviation interests and to non-aeronautical interests that may be affected by the proposal. No letters of objection were received.

BASIS FOR DECISION

The proposed structure would exceed the Part 77 conical surface as indicated above but would not create a substantial adverse effect. The study did not identify any IFR arrival, departure, or en route effects. There would be no effects on any existing or proposed en route VFR operations. There are no physical or electromagnetic effects on the operation of air navigation and communications facilities. The study did not disclose any effects on any airspace and routes used by the military. It would not impact K78 airport or any other existing or planned public-use or military airports would be impacted.

CONDITIONS

The incorporation of marking and lighting (dual medium) on this structure would provide additional conspicuity for pilots flying in this vicinity and is the primary factor for issuing a Determination of No Hazard. Although the recommended marking and lighting portion of this determination is advisory, if the proponent decides not to mark and light this structure IAW AC 70/7460-1, we reserve the right to change its determination to a Determination of Hazard (DOH).

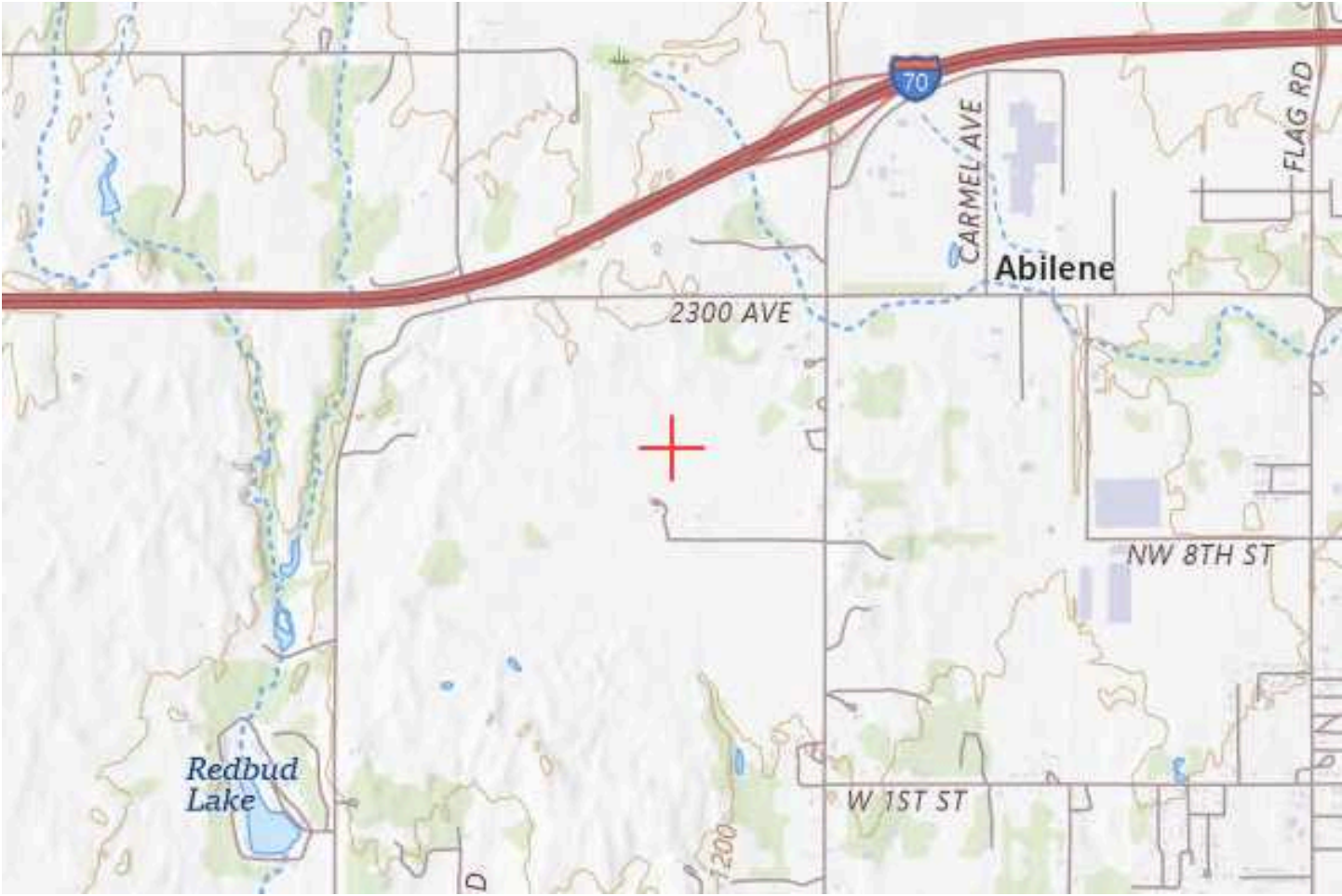
DETERMINATION - NO HAZARD TO AIR NAVIGATION

The cumulative impact of the structure is not considered significant. Study did not disclose any adverse effect on existing or proposed public-use or military airports or navigational facilities. Nor would the structure affect the capacity of any known existing or planned public-use or military airport.

Therefore, it is determined that the structure does not have a substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on any air navigation facility and is not a hazard to air navigation.

Frequency Data for ASN 2025-ACE-3672-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
6	7	GHz	42	dBW
6	7	GHz	55	dBW
10	11.7	GHz	42	dBW
10	11.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
21.2	23.6	GHz	42	dBW
21.2	23.6	GHz	55	dBW
614	698	MHz	1000	W
614	698	MHz	2000	W
698	806	MHz	1000	W
806	824	MHz	500	W
806	901	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
929	932	MHz	3500	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1670	1675	MHz	500	W
1710	1755	MHz	500	W
1850	1910	MHz	1640	W
1850	1990	MHz	1640	W
1930	1990	MHz	1640	W
1990	2025	MHz	500	W
2110	2200	MHz	500	W
2305	2360	MHz	2000	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W
2496	2690	MHz	500	W
3700	3980	MHz	3280	W





2300 AVE 2300 AVE NW 14TH ST NW

FAIR RD FAIR RD FAIR RD

Parcel QuickRefID - R7966

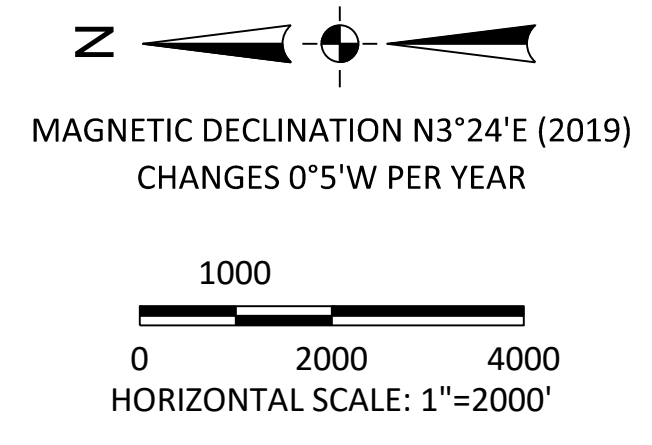
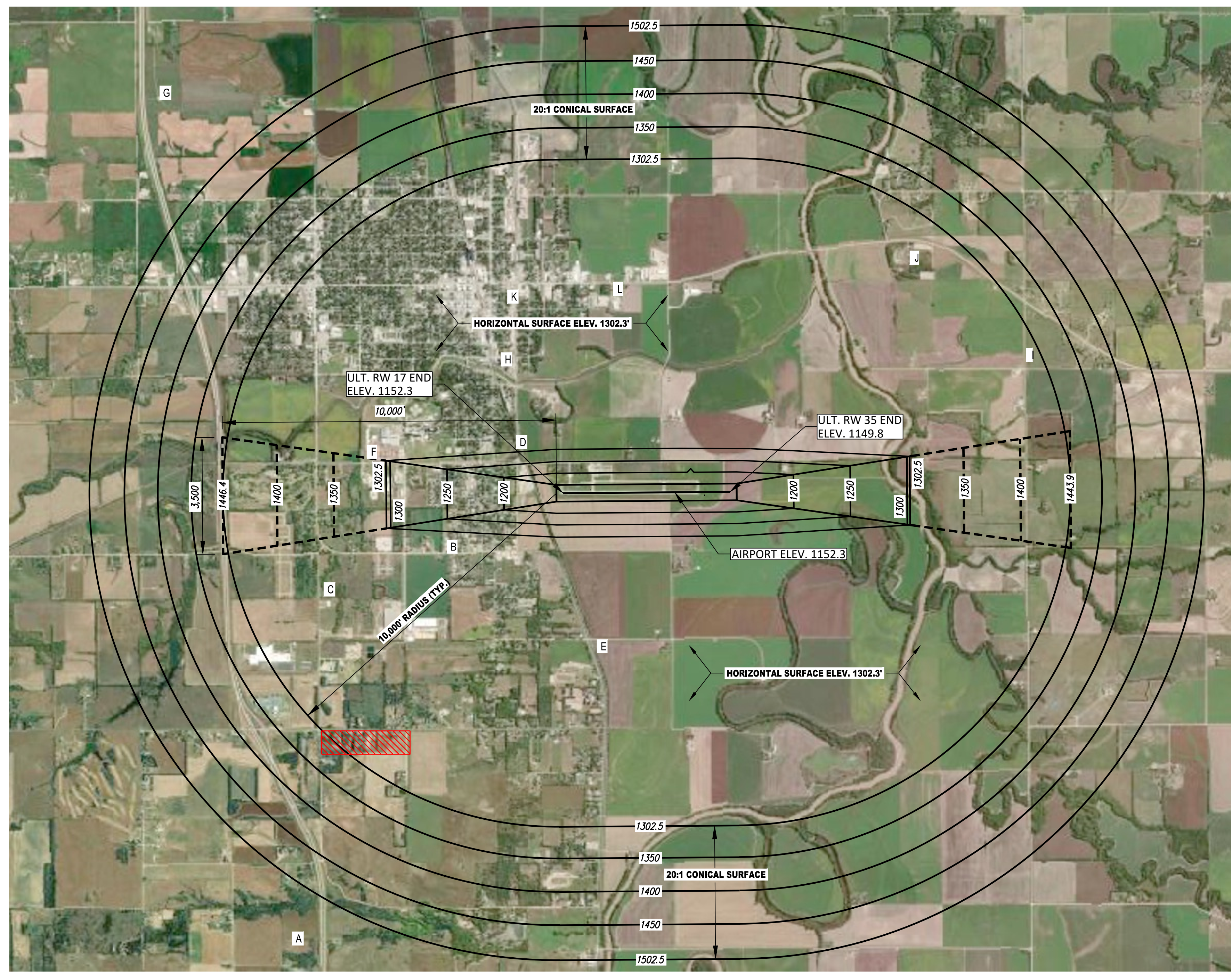
🔍 Zoom to

Owner Information:
KIDDCO, LLC
1650 INDY RD
ABILENE, KS 67410

Property Information:
KSPID: 0211261301001004000
Situs: 2200 BLK FAIR RD, Abilene, KS 67410
Type: Agricultural Use
Acerage: 31.70
Tax Unit: 23

More Information:
[Appraisal Info](#)
[Tax Information](#)

File Location: G:\Work\K\Transportation\AIP\Kans\Abilene\ALP\Sheets\ALP_AIRPORT_AIRSPACE_DRAWING.dwg [Plot Date: 4/9/2025 10:37:35 AM] [Last Saved: 12/12/2024 9:34:42 AM; libenes]



NO.	REVISIONS	DATE
1	EXHIBIT A UPDATE	6/2023

ALP
PLAN UPDATE
JULY 15, 2020

AIRPORT AIRSPACE DRAWING

AIRPORT LAYOUT PLAN UPDATE
ABILENE MUNICIPAL AIRPORT

- GENERAL NOTES**
- RUNWAYS, CLEARANCES, AND LOCATIONS ARE CALCULATED FROM ULTIMATE RUNWAY END ELEVATIONS AND ULTIMATE APPROACH SURFACES UNLESS OTHERWISE NOTED.
 - DESCRIPTION OF FEATURES AND OBJECTS WITHIN THE INNER PORTION OF APPROACH SURFACES IS ILLUSTRATED ON THE INNER PORTION APPROACH DRAWING ON THESE PLANS.
 - TOWER ELEVATIONS AND INFORMATION WAS OBTAINED FROM THE FAA OBSTRUCTION EVALUATION/AIRPORT AIRSPACE ANALYSIS (OE/AAA) DATABASE.

ABILENE MUNICIPAL AIRPORT - FAA STUDIED TOWERS											
FAA CASE STUDY NUMBER	ALP DESIGNATION	TOWER DESCRIPTION	OWNER	LATITUDE	LONGITUDE	SITE ELEVATION	STRUCTURE HEIGHT	TOTAL HEIGHT	DETERMINATION	DISPOSITION	EXISTING MARKING
2012-ACE-2692-OE	A	ANTENNA TOWER	ELITE WIRELESS, LP	38.9323	-97.2834	1241	182	1423	DNH	NONE	NONE
2019-ACE-4582-OE	B	WATER TOWER	CITY OF ABILENE	38.9186	-97.2416	1200	145	1345	NPH	MARK/LIGHT	
2014-ACE-689-OE	C	ANTENNA TOWER	MCC RADIO, LLC	38.9293	-97.2463	1190	163	1353	DNH	NONE	RED LIGHT & PAINTED
2012-ACE-3205-OE	D	POLE / ANTENNA	UNION PACIFIC RAILROAD COMPANY	38.9133	-97.2303	1152	68	1220	DNH	NONE	NONE
2017-ACE-1443-OE	E	COMMUNICATIONS TOWER	AT&T	38.9064	-97.2522	1151	151	1302	DNH	NONE	NONE
2014-ACE-2523-OE	F	WIRELESS SELF SUPPORT TOWER	NEX-TECH WIRELESS	38.9257	-97.2319	1161	137	1298	DNH	NONE	NONE
1998-ACE-1627-OE	G	ANTENNA TOWER	OMNI AMERICA DEVELOPMENT CORP.	38.9425	-97.1940	1240	360	1600		NONE	DUAL RED MEDIUM INTENSITY LIGHTS
2019-ACE-4580-OE	H	GRAIN ELEVATOR	(UNKNOWN)	38.9143	-97.2220	1157	163	1320	DNH	NONE	RED LIGHTS
2014-ACE-2854-OE	I	TRANSMISSION LINE	WESTERN ENERGY	38.8779	-97.2138	1176	105	1281	DNH	NONE	NONE
2019-ACE-4579-OE	J	COMMUNICATIONS TOWER	(UNKNOWN)	38.8805	-97.2113	1175	201	1376	NPH	MARK/LIGHT	
2014-ACE-4674-OE	K	ANTENNA TOWER	BNSF RAILWAY COMPANY	38.9134	-97.2153	1148	120	1268	DNH	NONE	NONE
2007-ACE-4118-OE	L	COMMUNICATIONS TOWER	GREAT PLAINS CHRISTIAN RADIO	38.9053	-97.2139	1145	100	1245	DNH	NONE	NONE

benesch
engineers - scientists - planners

Alfred Benesch & Company
3226 Kimball Avenue
Manhattan, Kansas 66503
Ph: 785.539.2202 Job No. - 130614.00

DESIGNED BY: JM
CHECKED BY: JM
REVIEWED BY: BAW
DATE PLOTTED: N/A

PROJECT
ALP UPDATE

DATE
JULY 15, 2020

SHEET NO.
4 of 38

**CITY OF ABILENE
AIRPORT ADVISORY BOARD
MEETING MINUTES**

**May 4, 2026, at 4:00 p.m.
Abilene City Hall
419 N Broadway St. Abilene, KS 67410**

Members Present: Jim Price (Chair), Jeremy Gorman (Vice-Chair), Jim Curtis (ex-officio, Airport Manager), Bruce Youtsey (Member), James Ferguson (Member), Rebecca Perkins (Member)

Members Absent: None

Others Present: None

Staff Present: Finance Director Kelsey Briand

Call to Order

The meeting was called to order at 4:01 pm by Chair, Jim Price.

Approval of Agenda

Jeremy Gorman moved to approve the agenda, seconded by Bruce Youtsey. Motion carried unanimously 6-0.

Approval of the Meeting Minutes – April 6, 2026

Rebecca Perkins moved to approve the minutes as written, seconded by James Ferguson. Motion carried unanimously 6-0.

Business

Financial Report – April

Staff presented the financial report for April. Questions about the land lease agreements were discussed. Discussion of replacement of the courtesy cars also occurred.

Hangar Discussion/Updates

Discussion about the commission meeting regarding the approval of the bids for the airport hangar project occurred. Staff confirmed that the commission approved awarding the bid for the t-hangars and included in that motion, they approved the increase to the hangar rental fee to \$173 per month.

Airport Overlay Variance Request

Staff received a request for a variance to the airport overlay from a company wanting to install a communications tower in the county on the west side of Fair Rd near Red Bud Lake. Staff shared the approval from the FAA to allow the variance. This item was discussed amongst the board. Rebecca Perkins made a motion to proceed with the variance according to the requirements presented in the FAA letter regarding lighting and marking, as this will not affect the airspace. Jeremy Gorman seconded the motion. Motion carried unanimously 6-0.

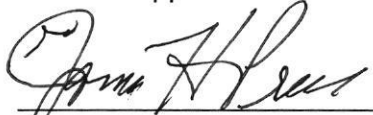
Pancake Feed/Fly-In Discussion

Jim Price shared he thought maybe the 1st part of October would be good.

Adjournment

Bruce Youtsey made a motion to adjourn, seconded by Jeremy Gorman. Motion carried unanimously 6-0.

Minutes Approved,



Airport Advisory Board

Attest:



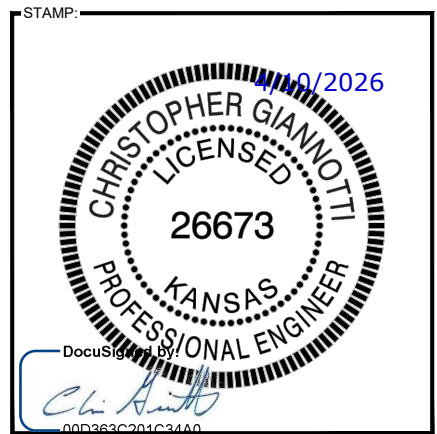
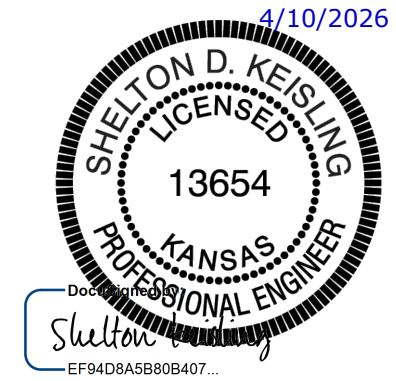
Kelsey Briand
Finance Director

NEW/UVW UTILITY EASEMENT
 ACCESS/UTILITY EASEMENT
 VZW LANDSPACE
 PENETRATIONS
 RR/BBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES



APPLICANT SITE NAME:
**US-KS-5112 RED
 BUD LAKE**
 TOWER TYPE:
300'-0" GUYED TOWER
 PROJECT:
RAWLAND

MDG LOCATION ID:
TBD
 APPLICANT PROJECT #:
17417608
 DRAWING DESCRIPTION:
FINAL CD

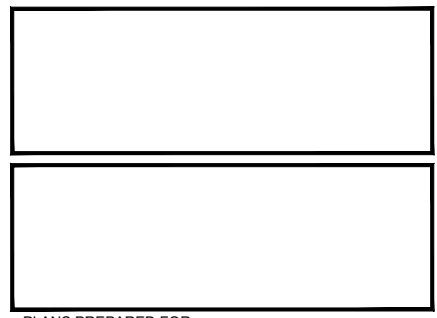


ENGINEERING LICENSE:			
STATE OF KANSAS			
PE CERTIFICATE OF AUTHORIZATION # E-571			
ENGINEER:	PE#:	DISCIPLINE:	
DC	CHRISTOPHER GIANNOTTI	26673	CIVIL
PJD	PATRICK J. DAVIS	25087	CIVIL
SDK	SHELTON D. KEISLING	13654	ELECTRICAL
MHCM	MARIA H.C. MARTINEZ	24992	ELECTRICAL
TMS	TERRANCE M. SUPER	9250	ELECTRICAL



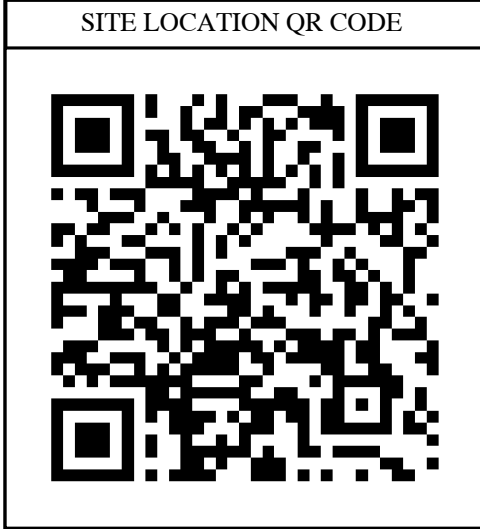
SITE INFORMATION	
PROJECT:	RAWLAND
CELL SITE NAME:	US-KS-5112 RED BUD LAKE
CELL SITE ADDRESS:	2200 BLOCK FAIR RD ABILENE, KS 67410
LESSOR:	KIDDCO LLC 1650 INDY RD ABILENE, KS 67410
CONTACT:	L.L CONTACT
PHONE:	TBD
TOWER INFORMATION:	
LATITUDE:	38° 55' 30.74" N (NAD 83)
LONGITUDE:	97° 15' 59.86" W (NAD 83)
GROUND ELEV:	1221.0' AMSL
OVERALL STRUCTURE HT:	305'-0" AGL
TOWER HEIGHT:	300'-0" AGL
TOWER TYPE:	GUYED TOWER
APPLICANT CL:	200'-0" AGL
CONTACT:	CORPORATE HEADQUARTERS
PHONE:	(561) 849-6367 (VERTICAL BRIDGE)

DRAWING INDEX		
SHEET NO.	SHEET TITLE	DISC.
T-1.0	TITLE SHEET	C/E
	SURVEY (BY OTHERS)	
SOW	SCOPE OF WORK	C
C-0.0	GRADING PLAN	C
C-1.0	OVERALL SITE PLAN	C
C-1.1	ENLARGED SITE PLAN	C
C-2.0	EQUIPMENT LAYOUT	C/E
C-2.1	EQUIPMENT PAD DETAILS	C/E
C-3.0	METER CENTER RACK DETAIL	C/E
C-3.1	H-FRAME POST DETAIL	C
C-3.2	DETAILS	C
C-4.0	COMPOUND FENCED DETAILS (1 OF 2)	C
C-4.1	COMPOUND FENCED DETAILS (2 OF 2)	C
C-5.0	SIGNAGE DETAILS	C
ANT-1.0	TOWER ELEVATION	C
E-1.0	OVERALL UTILITY PLAN	E
E-1.1	ENLARGED UTILITY PLAN	E
E-2.0	UTILITY DETAILS	E
G-1.0	COMPOUND GROUNDING PLAN	E
G-1.1	ENLARGED GROUNDING PLAN	E
G-2.0	GROUNDING DETAILS (1 OF 2)	E
G-2.1	GROUNDING DETAILS (2 OF 2)	E
GN-1.0	GENERAL NOTES	C/E
SP-1.0	SPECIFICATIONS (1 OF 7)	C
SP-1.1	SPECIFICATIONS (2 OF 7)	C
SP-1.2	SPECIFICATIONS (3 OF 7)	C
SP-1.3	SPECIFICATIONS (4 OF 7)	C
SP-1.4	SPECIFICATIONS (5 OF 7)	C
SP-2.0	SPECIFICATIONS (6 OF 7)	E
SP-2.1	SPECIFICATIONS (7 OF 7)	E



DRAWING NOTICE:
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SUBMITTALS:	DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW		07/14/25	DSL	A
REISSUED PER FIBER RUN		09/09/25	AWD	B
ISSUED FOR CONSTRUCTION		04/10/26	AWD	0



CONSULTING TEAM

ENGINEERING:
 SSC, INC.
 7171 WEST 95TH STREET, SUITE 600
 OVERLAND PARK, KANSAS 66212
 PHONE: (913) 438-7700
 FAX: (913) 438-7777
 SSC SITE ID: SSC-21020
 PROJECT ID: P-036751

CLIENT MANAGER:
 JEFF KONKEL

A&E PROJECT MANAGER:
 TYSEN WEISHAAR

LEAD ENGINEER:
 KEVIN VANMAELE

LEAD ELECTRICAL:
 SHELTON KEISLING

JURISDICTION COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

- INTERNATIONAL BUILDING CODE
- INTERNATIONAL MECHANICAL CODE
- ANSI/TIA-222 STRUCTURAL STANDARD
- NFPA 780 - LIGHTNING PROTECTION CODE
- NATIONAL ELECTRICAL CODE

811
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THE UTILITIES AS SHOWN ON THIS SET OF DRAWINGS WERE DEVELOPED FROM THE INFORMATION AVAILABLE. THE INFORMATION PROVIDED IS NOT IMPLIED NOR INTENDED TO BE THE COMPLETE INVENTORY OF UTILITIES IN THIS AREA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE CAUSED BY CONTRACTOR'S ACTIVITIES.

PROJECT INFORMATION:
 INSTALL TOWER FOR A COMMUNICATIONS SITE.

APPLICANT SITE NAME:
 US-KS-5112 RED BUD LAKE

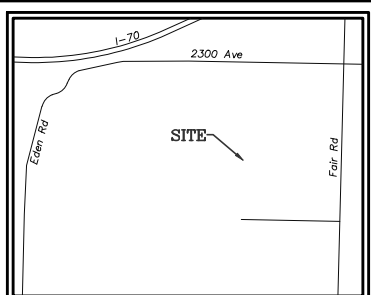
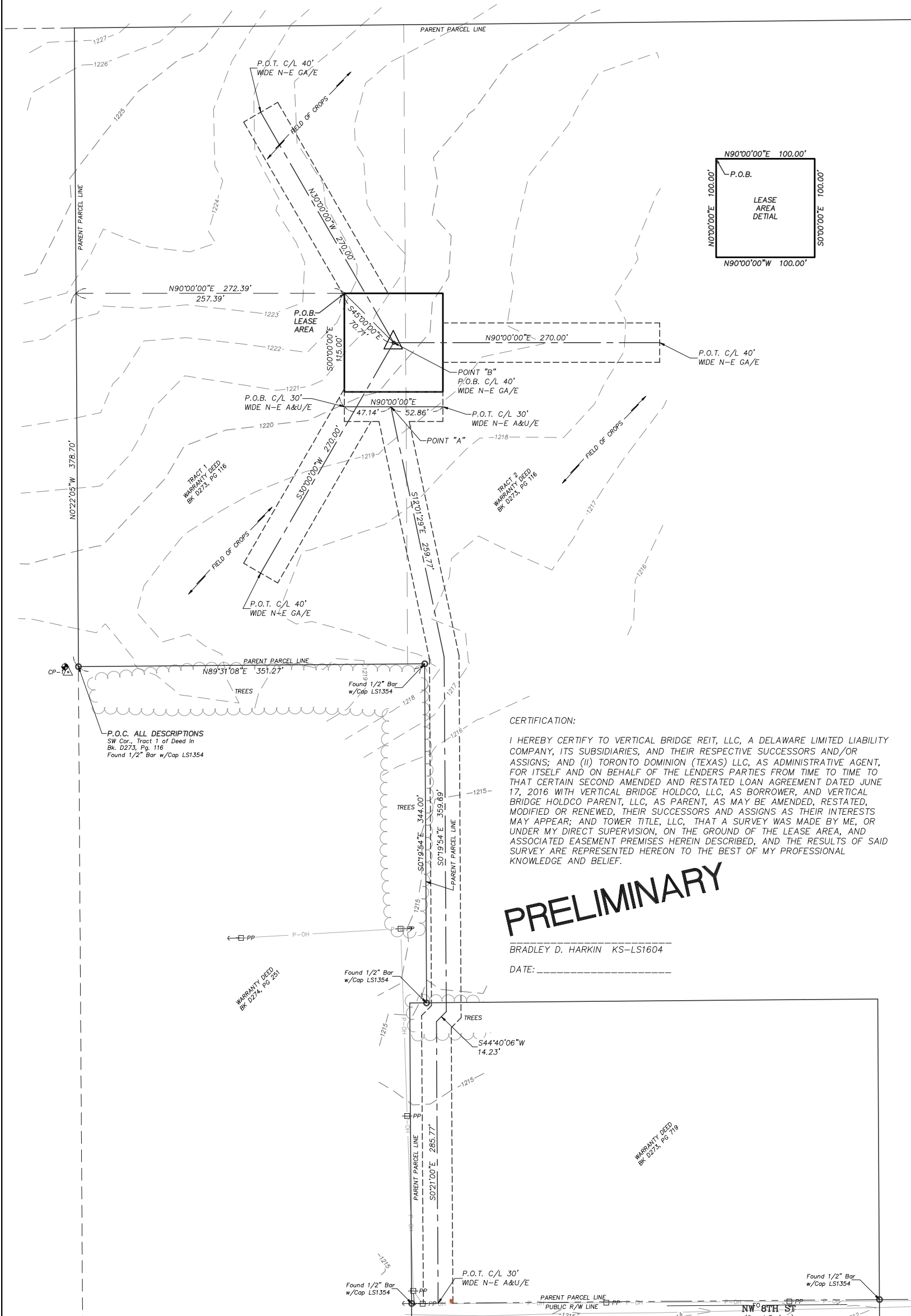
MDG LOCATION ID:
 TBD

SITE ADDRESS:
 2200 BLOCK FAIR RD
 ABILENE, KS 67410

SHEET DESCRIPTION: TITLE SHEET	SHEET #: T-1.0
--	--------------------------

US-KS-5112 RED BUD LAKE

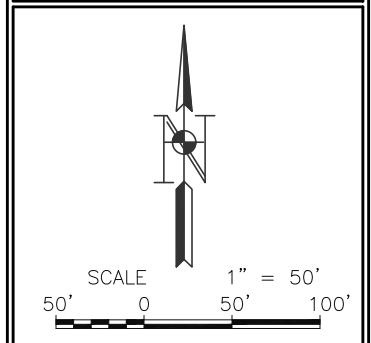
PART OF THE NE 1/4, SECTION 13-T13S-R1E, IN DICKINSON COUNTY, KANSAS



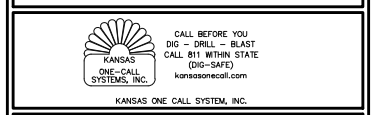
LOVELACE & ASSOCIATES
Land Surveying - Land Planning
Telecommunications Surveys
929 SE 3rd Street Lee's Summit, Missouri 64063
Phone: (816) 347-9997 Fax: (816) 347-9979

SURVEY PROVIDED BY:
LOVELACE AND ASSOCIATES, LLC
P.O. BOX 68,
LEE'S SUMMIT, MO 64063
TELEPHONE: 816-347-9997
FAX: 816-347-9979

SURVEY PROVIDED FOR:
TERRA CONSULTING GROUP, LTD.
TELEPHONE: 847-417-0407
WEBSITE: terratd.com



FLOOD NOTE:
According to my interpretations of Community Panel No. 20041C0242E of the Flood Insurance Rate Map for Dickinson County, Kansas, the subject property is in Flood Zone "X", ie. "areas determined to be Outside the 0.2% annual chance floodplain".



SITE I.D.: US-KS-5112
SITE NAME: RED BUD LAKE
SITE LOCATION:
2200 BLK FAIR RD
ABILENE, KS 67410
LA PROJECT NO.: 25097
DRAWN BY: B.D.H.
CHECKED BY: J.B.L.
DATE: 5-30-25
FIELDWORK DATE: 6-30-25

Certificate of Authority:
Kansas - LS-154

SHEET NUMBER
1 OF 2

CERTIFICATION:
I HEREBY CERTIFY TO VERTICAL BRIDGE REIT, LLC, A DELAWARE LIMITED LIABILITY COMPANY, ITS SUBSIDIARIES, AND THEIR RESPECTIVE SUCCESSORS AND/OR ASSIGNS; AND (II) TORONTO DOMINION (TEXAS) LLC, AS ADMINISTRATIVE AGENT, FOR ITSELF AND ON BEHALF OF THE LENDERS PARTIES FROM TIME TO TIME TO THAT CERTAIN SECOND AMENDED AND RESTATED LOAN AGREEMENT DATED JUNE 17, 2016 WITH VERTICAL BRIDGE HOLDCO, LLC, AS BORROWER, AND VERTICAL BRIDGE HOLDCO PARENT, LLC, AS PARENT, AS MAY BE AMENDED, RESTATED, MODIFIED OR RENEWED, THEIR SUCCESSORS AND ASSIGNS AS THEIR INTERESTS MAY APPEAR; AND TOWER TITLE, LLC, THAT A SURVEY WAS MADE BY ME, OR UNDER MY DIRECT SUPERVISION, ON THE GROUND OF THE LEASE AREA, AND ASSOCIATED EASEMENT PREMISES HEREIN DESCRIBED, AND THE RESULTS OF SAID SURVEY ARE REPRESENTED HEREON TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF.

PRELIMINARY

BRADLEY D. HARKIN KS-LS1604
DATE: _____

<p>PROPOSED CELL TOWER DATA Center of Tower Lat 38°55'30.74" North (38.925206°) Long 97°15'59.86" West (-97.266628°) Ground Elevation = 1221ft</p>	<p>PROPOSED CELL HANDHOLE Center of Tower Lat 38°55'21.13" North (38.922535°) Long 97°15'59.22" West (-97.266450°) Ground Elevation = 1215ft</p>	<p>BENCH MARK Top of 1/2" Iron Bar at CP-1 Elevation = 1218.27ft</p>
---	---	---

REVISED: 8-13-25 ADDED U/E AND DESCRIPTIONS
REVISED: 9-18-25 REVISED LAYOUT

Notes:

Bearings shown hereon are referenced to Grid North of the Kansas State Plane Coordinate System of 1983 (NAD 83), (2011 ADJ.), North Zone. They are obtained by static GPS observations and Rinex File submittals for NGS Opus solutions.

Vertical Datum = NAVD88 using GEOID12B

This survey's purpose is to establish and describe a Lease Area and associated Easements. It is not a boundary survey of the Parent Parcel.

The Lease Area and associated Easements lie entirely within the Parent Parcel.

During this survey's fieldwork, there were no visible encroachments in the Lease Area or associated Easements.

The Non-Exclusive Access/Utility Easements terminates at Public Right of Way.

** An utility locate was requested on 6-18-2025, as Ticket No. 25307679, 25307680 & 25307805.

The utilities shown on this drawing were developed from the information available (existing utility maps, aboveground observations, and or surface markings placed on the ground by the utility company or a representative thereof). This company has not attempted to excavate or go below the surface to locate utilities. It does not extend or imply a guarantee or warranty on the exact location of or complete inventory of utilities in this area. The contractor shall be responsible for verifying the location and depth of all utilities (whether shown or not) before excavation or construction and protecting them from damage.

PROPERTY DESCRIPTION: LEASE AREA (AS SURVEYED)

A 100 foot by 100 foot Lease Area, situated in the Northeast Quarter of Section 13, Township 13 South, Range 1 East, in Dickinson County, Kansas, more particularly described as follows:

COMMENCING at the Southwest Corner of tract of land known as Tract 1 in Book D273, Page 116 of the Dickinson County Records; thence along the West line of said tract of land, North 00°22'05" West, a distance of 378.70 feet; thence leaving said West line, North 90°00'00" East, a distance of 272.39 feet to the POINT OF BEGINNING; thence North 90°00'00" East, a distance of 100.00 feet; thence South 00°00'00" East, a distance of 100.00 feet; thence North 90°00'00" West, a distance of 100.00 feet; thence North 00°00'00" East, a distance of 100.00 feet to the POINT OF BEGINNING. Containing 10,000 square feet.

PROPERTY DESCRIPTION: NON-EXCLUSIVE ACCESS/UTILITY EASEMENT (AS SURVEYED)

A 25 foot wide Access/Utility Easement, situated in the Northeast Quarter of Section 13, Township 13 South, Range 1 East, in Dickinson County, Kansas, lying 12.50 feet on each side of the following described centerline:

COMMENCING at the Southwest Corner of tract of land known as Tract 1 in Book D273, Page 116 of the Dickinson County Records; thence along the West line of said tract of land, North 00°22'05" West, a distance of 378.70 feet; thence leaving said West line, North 90°00'00" East, a distance of 257.39 feet; thence South 00°00'00" East, a distance of 115.00 feet to the POINT OF BEGINNING of said centerline; thence North 90°00'00" East, a distance of 47.14 feet to a point hereinafter referred to as POINT "A"; thence continuing North 00°00'00" East, a distance of 52.86 feet to the POINT OF TERMINATION; BEGINNING at aforementioned POINT "A"; thence South 12°01'29" East, a distance of 259.77 feet; thence South 00°19'54" East, a distance of 359.69 feet; thence South 44°40'06" West, a distance of 14.23 feet; thence South 00°21'00" East, a distance of 285.77 feet to the North Right of Way line of Northwest 8th Street (Public Right of Way) and the POINT OF TERMINATION.

PROPERTY DESCRIPTION: NON-EXCLUSIVE GUY ANCHOR EASEMENTS (AS SURVEYED)

Three 40 foot wide Guy Anchor Easements, situated in the Northeast Quarter of Section 13, Township 13 South, Range 1 East, in Dickinson County, Kansas, lying 20.00 feet on each side of the following described centerlines:

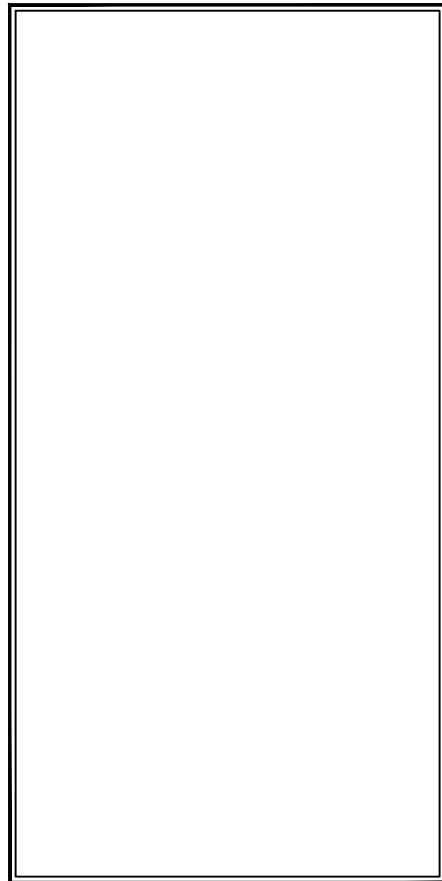
COMMENCING at the Southwest Corner of tract of land known as Tract 1 in Book D273, Page 116 of the Dickinson County Records; thence along the West line of said tract of land, North 00°22'05" West, a distance of 378.70 feet; thence leaving said West line, North 90°00'00" East, a distance of 272.39 feet; thence South 45°00'00" East, a distance 70.71 feet to the POINT OF BEGINNING of said centerlines, said point hereinafter referred to as POINT "B"; thence North 30°00'00" West, a distance of 270.00 feet to the POINT OF TERMINATION; BEGINNING at aforementioned POINT "B"; thence North 90°00'00" East, a distance of 270.00 feet to the POINT OF TERMINATION; BEGINNING at aforementioned POINT "B"; thence South 30°00'00" West, a distance of 270.00 feet to the POINT OF TERMINATION.

SITE I.D.: US-KS-5112
SITE NAME: RED BUD LAKE
SITE LOCATION: 2200 BLK FAIR RD ABILENE, KS 67410
LA PROJECT NO.: 25097
DRAWN BY: B.D.H.
CHECKED BY: J.B.L.
DATE: 5-30-25
FIELDWORK DATE: 6-30-25
Certificate of Authority: Kansas - LS-154
SHEET NUMBER 2 OF 2

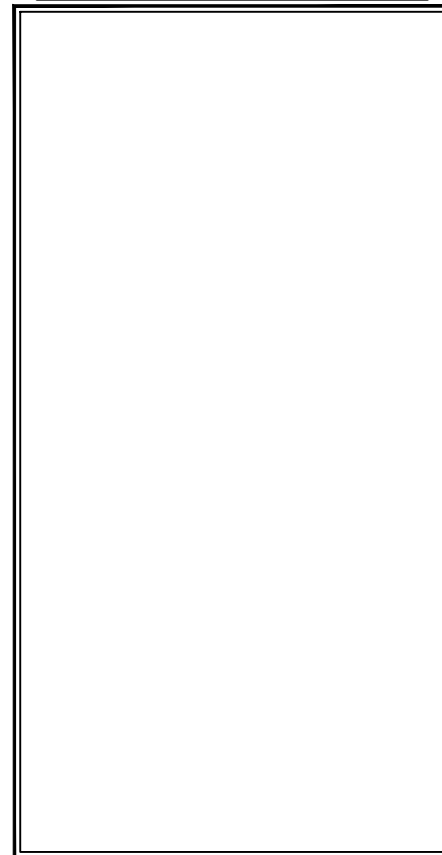
VERTICAL BRIDGE CONSTRUCTION SCOPE OF WORK

- 1.00 PERMITTING
 - A. CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL PERMITS AND ALL REQUIRED INSPECTIONS.
- 2.00 SITE CLEARING
 - A. CONTRACTOR SHALL CLEAR ACCESS EASEMENT AND LEASE AREA OF ALL TREES AND STUMPS. REMOVE AND DISPOSE OF ALL DEBRIS. CONTRACTOR SHALL NOT DISTURB AREA OUTSIDE OF LIMITS OF DISTURBANCE.
 - B. IF REQUIRED PER UTILITY COORDINATION CONTRACTOR SHALL CLEAR UTILITY EASEMENTS OF ALL TREES AND STUMPS. REMOVE AND DISPOSE OF ALL DEBRIS.
 - C. CONTRACTOR SHALL INSTALL SILT FENCE PRIOR TO THE START OF CONSTRUCTION.
 - D. ALL DEBRIS OR MATERIALS TO BE LEFT ON SITE WILL BE CLEARED WITH THE LAND OWNER ON A SIGNED DOCUMENT.
- 3.00 ACCESS ROAD
 - A. CONTRACTOR SHALL COMPLETE GRAVEL ACCESS DRIVE TO TOWER COMPOUND PER CONSTRUCTION DRAWINGS OR AT A MINIMUM OF VERTICAL BRIDGE STANDARDS.
 - B. 18" CULVERT PIPE IS VERTICAL BRIDGE MINIMUM STANDARD UNLESS DOT ENFORCED SIZE IS REQUESTED. SEE CONSTRUCTION DRAWINGS GRADING PLAN FOR SITE CULVERT LOCATION(S) AND SIZES.
- 4.00 COMPOUND FENCE
 - A. CONTRACTOR SHALL INSTALL STYMIE LOCK SYSTEM AND VERTICAL BRIDGE LOCK ON COMPOUND GATE. VERTICAL BRIDGE LOCK COMBO (0951)
 - B. CONTRACTOR SHALL INSTALL MUSHROOM AND GATE STOPS.
 - C. CONTRACTOR SHALL INSTALL 50'x50'x6' CHAINLINK FENCE WITH (3) RUNS OF BARBED WIRE ON TOP FOR MONOPOLE AND GUYED TOWERS. (75'x75'x6' FENCED COMPOUND FOR SST TOWER SITES)
- 5.00 TOWER AND FOUNDATION
 - A. CONTRACTOR SHALL COORDINATE DELIVERY OF ANCHOR BOLTS, TEMPLATE AND TOWER STEEL WITH TOWER VENDOR.
 - B. CONTRACTOR SHALL UTILIZE SUPPLIED FOUNDATION DESIGN FOR TOWER. REBAR AND CONCRETE INSTALLATION SHALL BE INSPECTED AND TESTED BY A 3RD PARTY COMPANY AND SUBMIT TEST AND INSPECTION REPORTS TO VERTICAL BRIDGE. (SPOILS FROM FOUNDATION SHALL BE REMOVED FROM SITE)
 - C. 3 DAY / 7 DAY / 28 DAY BREAK TEST REQUIRED. BREAK TEST MUST BE SUBMITTED FOR REVIEW PRIOR TO TOWER STACK.
 - D. CONTRACTOR SHALL INSTALL TOWER, ALL ASSOCIATED STEP BOLTS, SAFETY CLIMB EQUIPMENT, LIGHTNING ROD, WAVEGUIDE LADDER AND ALL MISCELLANEOUS TOWER PARTS.
 - E. CONTRACTOR SHALL CONFORM TO SUPPLIED FAA HEIGHT VERIFICATION.
- 6.00 TOWER LIGHTING
 - A. TOWER LIGHTING EQUIPMENT SHALL BE INSTALLED BY LIGHTING MANUFACTURE.
 - B. CONTRACTOR SHALL SUPPLY AND INSTALL 100A SUB-PANEL WITH (3) 20 AMP BREAKERS FOR TOWER LIGHTING IF REQUIRED.
 - C. CONTRACTOR SHALL SUPPLY AND INSTALL (1) GFI OUTLET AT SUB-PANEL LOCATION FOR TOWER LIGHTING IF REQUIRED.
 - D. CONTRACTOR SHALL SUPPLY AND INSTALL (1) 2" CONDUIT FROM SUB-PANEL LOCATION TO TOWER LEG WITH WEATHER-HEAD IF REQUIRED.
- 7.00 UTILITY H-FRAME CONSTRUCTION
 - A. CONTRACTOR SHALL SUPPLY AND INSTALL A 4-GANG 800 AMP METER PANEL ON A NEW 8' H-FRAME.
 - B. H-FRAME TO BE CONSTRUCTED TO HOLD 4-GANG METER BASE ON FRONT WITH METERS FACING OUT OF COMPOUND.
 - C. H-FRAME TO BE CONSTRUCTED TO HOLD TOWER LIGHTING SUB-PANEL AND LIGHTING CONTROLLER ON FRONT ALONGSIDE METER BASE.
 - D. CONTRACTOR SHALL SUPPLY GFCI ALL WEATHER RECEPTACLES ON H-FRAME.
 - E. CONTRACTOR SHALL SUPPLY AND INSTALL 500-WATT METAL HALIDE FLOOD LIGHT 120 VOLT WITH TIMER SWITCH.
- 8.00 POWER SERVICE
 - A. CONTRACTOR SHALL USE PROVIDED UTILITY REPORT AND CONSTRUCTION DRAWINGS TO BID POWER FROM POWER DEMARC.
 - B. CONTRACTOR SHALL BE IN CONSTANT COMMUNICATION WITH POWER COMPANY UNTIL POWER IS ACQUIRED AT MULTI-METER FRAME.
 - C. CONTRACTOR SHALL NOTIFY UTILITY PROVIDER OF START OF CONSTRUCTION.
 - D. CONTRACTOR SHALL CONDUCT A SECOND POWER WALK WITH UTILITY PROVIDER AT START OF CONSTRUCTION.
 - E. IF CHANGES TO THE SCOPE OF WORK ARE MADE BY THE UTILITY PROVIDER AFTER CONSTRUCTION START, CONTRACTOR SHALL NOTIFY VERTICAL BRIDGE CM/PM IMMEDIATELY.
- 9.00 VERIZON TELCO/FIBER SERVICE INSTALL BY VERTICAL BRIDGE
 - A. CONTRACTOR SHALL SUPPLY AND INSTALL A SEPARATE HAND-HOLE AT THE ROW, AT THE COMPOUND AND EVERY 300' (OR AT ANY BEND) WITH 2" CONDUIT FOR THE LIT FIBER PER THE CONSTRUCTION DRAWINGS. **MARK HAND-HOLES LIT FIBER**
 - B. CONTRACTOR SHALL SUPPLY AND INSTALL A SEPARATE HAND-HOLE AT THE ROW, AT THE COMPOUND AND EVERY 300' (OR AT ANY BEND) WITH 2" CONDUIT FOR THE DARK FIBER PER THE CONSTRUCTION DRAWINGS. **MARK HAND-HOLES DARK FIBER FIBER**
 - C. **FIBER TO FOLLOW ACCESS ROAD TO ROW ALWAYS!**

CONTRACTOR NOTES



VERTICAL BRIDGE CM NOTES



VERTICAL BRIDGE CONSTRUCTION SCOPE OF WORK CON'T.

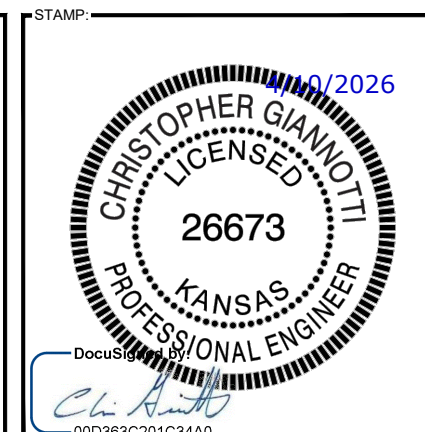
- 10.00 VERIZON CIVLS
 - A. CONTRACTOR SHALL PROVIDE LUMP SUM FEE FOR ALL VERIZON LINE ITEMS UNDER TENANT CIVLS ON BID DOCUMENT. THIS INCLUDES SET AND CONNECTIONS OF VERIZON'S EQUIPMENT/GENERATOR PADS, FUEL TANKS, EQUIPMENT/GENERATOR ELECTRICAL, TELCO/FIBER CONDUITS, EQUIPMENT GROUNDING AND ICE BRIDGE.
- 11.00 VERIZON ANTENNA MOUNT(S)
 - A. CONTRACTOR SHALL PROVIDE SEPARATE LINE ITEM FOR ANTENNA MOUNT INSTALLATION UNDER TENANT MOUNT. CONTRACTOR SHALL ORDER THE ANTENNA MOUNT AND CONFIRM THE ITEM DESCRIPTION THROUGH VERIZON.
 - B. CONTRACTOR WILL BE REQUIRED TO ORDER ANTENNA MOUNT ASAP TO AVOID ANY DELAYS TO STACK THE TOWER.

VERIZON CONSTRUCTION SCOPE OF WORK

- 1.00 VERIZON ANTENNA AND LINES
 - A. CONTRACTOR SHALL PROVIDE LUMP SUM FEE FOR ALL VERIZON ANTENNA AND LINES WITH EQUIPMENT UNDER TENANT CIVLS ON BID DOCUMENT. VERIZON TO PROVIDE ALL EQUIPMENT FOR ANTENNA AND LINE INSTALLATION. CONTRACTOR SHALL PROVIDE CONSUMABLE MATERIALS AS NEEDED TO COMPLETED THE CO-LOCATION.
 - B. CONTRACTOR SHALL SUPPLY AND INSTALL HYBRID CABLES.
- 2.00 STARTUP COMMISSIONING
 - A. CONTRACTOR SHALL PROVIDE LUMP SUM FEE UNDER BID CLARIFICATION/EXCEPTIONS SECTION FOR COMMISSIONING AND START-UPS (AS REQUIRED BY "STANDARD VERIZON INSTALL). **VERIZON IS RESPONSIBLE FOR PAYMENT OF THESE SERVICES.**
- 3.00 VERIZON POWER SERVICE
 - A. CONTRACTOR/VERIZON CM RESPONSIBLE FOR SETTING UP VERIZON'S POWER ACCOUNT OR TRANSFER OF INITIAL SERVICE ACCOUNT FROM VERTICAL BRIDGE TO VERIZON.
 - 1. CONTRACTOR RESPONSIBLE FOR REPORTING POWER UPDATES.
 - 2. CONTRACTOR RESPONSIBLE FOR TRACKING AND CONFIRMING METER SET.
 - 3. PHOTO CONFORMATION REQUIRED.
 - B. VERIZON POWER SERVICE SHALL BE 200 AMPS
 - C. TYPICAL VERIZON ELECTRICAL POWER SERVICE INSTALL. SEE CONSTRUCTION DRAWINGS FOR POWER ROUTING.

VERTICAL BRIDGE TIMELINE EXPECTATIONS

- ONCE NTP HAS BEEN ISSUED, CONTRACTOR HAS (3) BUSINESS DAYS TO PROVIDE A SCHEDULE TO VERTICAL BRIDGE CONSTRUCTION MANAGER AND PROJECT MANAGER.
- CONSTRUCTION STARTS WITHIN 7 DAYS OF NTP RECEIPT.
- DAILY SAFETY REPORTS ARE REQUIRED.
- DAILY SITE UPDATES WITH PHOTOS ARE REQUIRED.
- TOWER STACKED (OTHVR) WITHIN 28 DAYS OF NTP RECEIPT.
- CLOSEOUT APPROVAL WITHIN 60 DAYS OF NTP RECEIPT.



DocuSign by: *Ch. Giannotti*

00D363C201C34A0

ENGINEERING LICENSE: STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
CC	CHRISTOPHER GIANNOTTI 26673	CIVIL
PJD	PATRICK J. DAVIS 25073	CIVIL
SDK	SHELTON D. KEISLING 13654	ELECTRICAL
MHCM	MARIA H.C. MARTINEZ 24992	ELECTRICAL
TMS	TERRANCE M. SUPER 9250	ELECTRICAL



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SUBMITTALS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	07/14/25	DSL	A
REISSUED PER FIBER RUN	09/09/25	AWD	B
ISSUED FOR CONSTRUCTION	04/10/26	AWD	0

APPLICANT SITE NAME:
US-KS-5112 RED BUD LAKE

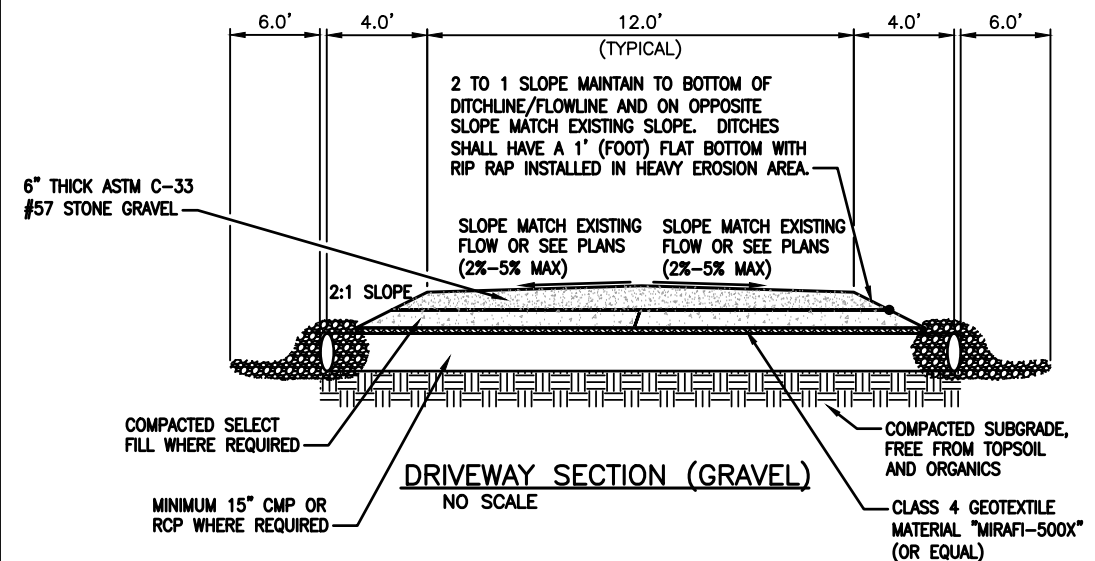
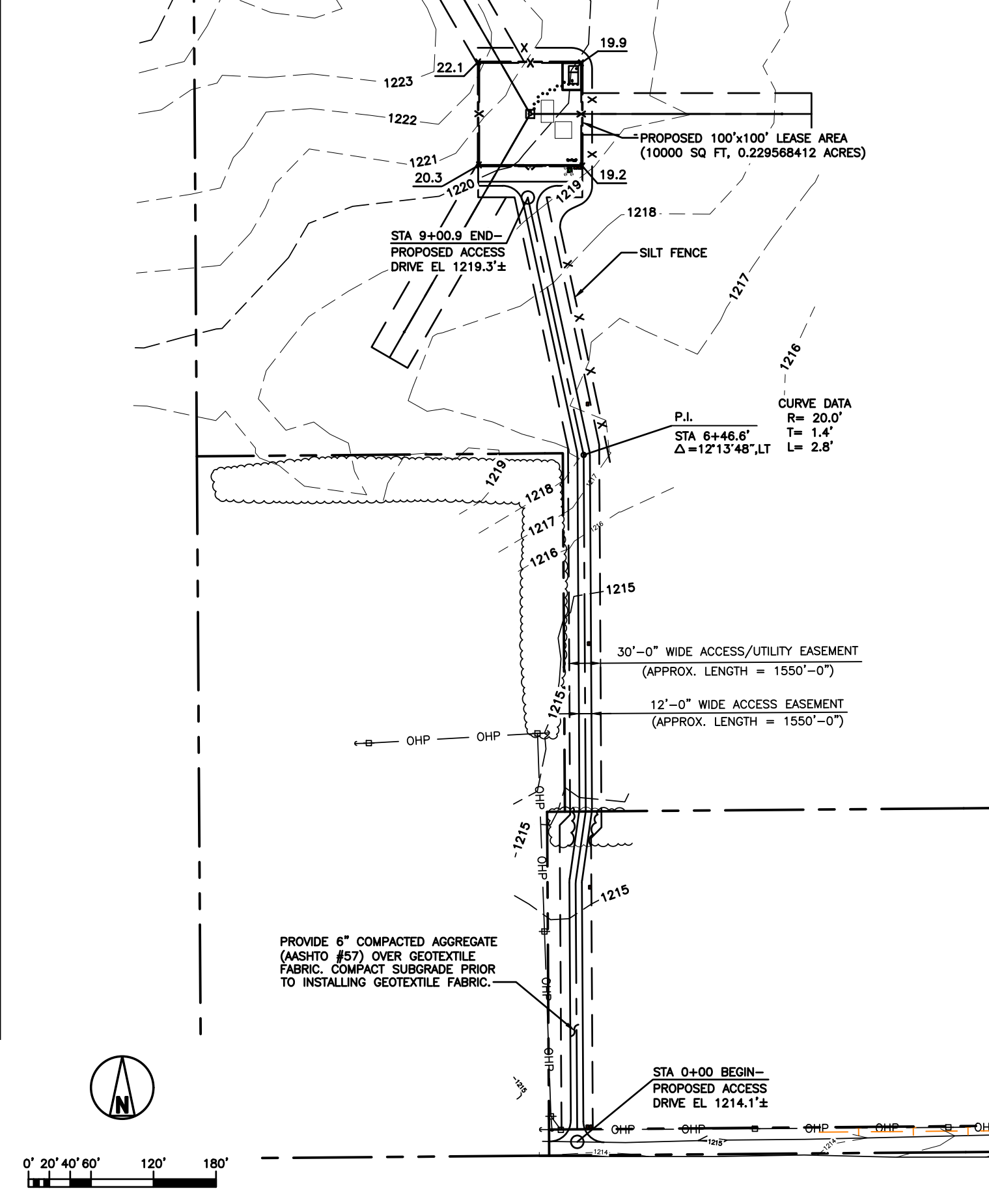
MDG LOCATION ID:
TBD

SITE ADDRESS:
**2200 BLOCK FAIR RD
ABILENE, KS 67410**

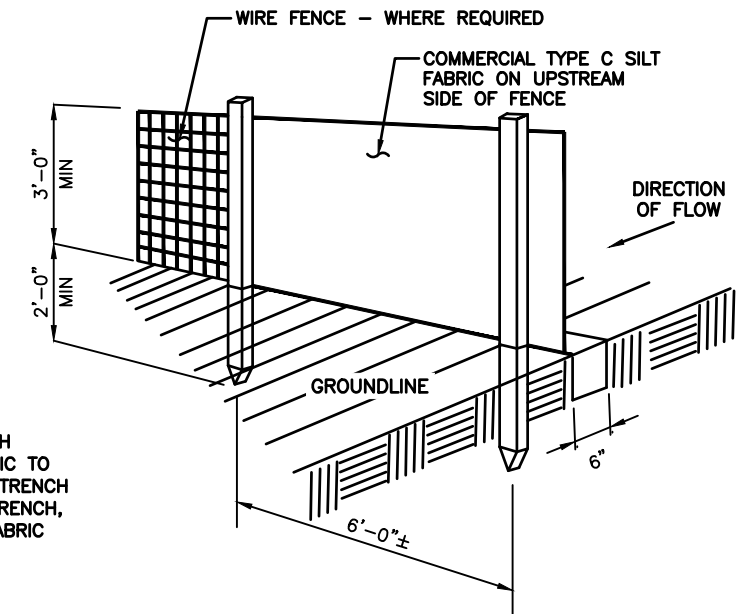
SHEET DESCRIPTION: SCOPE OF WORK	SHEET #: SOW
--	------------------------

- NEW VZM UTILITY EASEMENT
- ACCESS/UTILITY EASEMENT
- VZM LANDSPACE
- PENETRATIONS
- RR/RIBBU
- ANTENNAS
- FIBER
- POWER/ GROUNDING
- HYBRID & COAX CABLES

NOTE:
SLOPES SHALL NOT EXCEED 3:1
(3 FEET HORIZONTAL TO 1 FOOT VERTICAL)



GRADING NOTES:
-USE OF SWALES AND/OR DRAINAGE DITCHES FOR PROPER WATER RUNOFF AS NEEDED.
-AGGREGATE IS BASED ON STANDARD AASHTO.
-2" CROWN IN CENTER OF ACCESS, UNLESS IN CURVES, THEN ACCESS SHOULD BE SLOPED TO INSIDE OF TURN / CURVE
-PIPE SHALL BE AT A MINIMUM OF 4' LONGER THEN ACCESS ROAD WIDTH ON EACH SIDE FOR PROPER SHOULDERING.
-ALL CROSSDRAINS SHALL BE INSTALLED ON A 45° ANGLE WITH THE FALL OF THE GRADE.



- NOTE:**
- DONT TRENCH
 - LAY IN FABRIC TO BOTTOM OF TRENCH
 - BACK FILL TRENCH, COVERING FABRIC

- SILTATION NOTES:**
- SILTATION CONTROL DEVICES TO REMAIN IN PLACE UNTIL ADEQUATE VEGETATION GROWTH INSURES NO FURTHER EROSION.
 - SILTATION FENCES SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND FOR THE AMOUNT OF SEDIMENTATION WHICH HAS ACCUMULATED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 FENCE HEIGHT.
 - ATTACHMENT OF GEOTEXTILE FABRIC TO BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - SILT FENCING TO BE USED AT ALL AREAS OF EXCAVATION.

STAMP:

10/2026

CHRISTOPHER GIANNOTTI
LICENSED
26673
KANSAS
PROFESSIONAL ENGINEER

DocuSign by
Ch. Smith
00D363C201C34A0

ENGINEERING LICENSE:
STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
C/D	CHRISTOPHER GIANNOTTI 26673	CIVIL
P/JD	PATRICK J. DAVIS 25097	CIVIL
SDK	SHELTON D. KEISLING 13654	ELECTRICAL
M/HCM	MARIA H.C. MARTINEZ 24992	ELECTRICAL
TMS	TERRANCE M. SUPER 9250	ELECTRICAL

PLANS PREPARED FOR:

verticalbridge

PLANS PREPARED BY:

SSC

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APPLICANT SITE NAME:
US-KS-5112 RED BUD LAKE

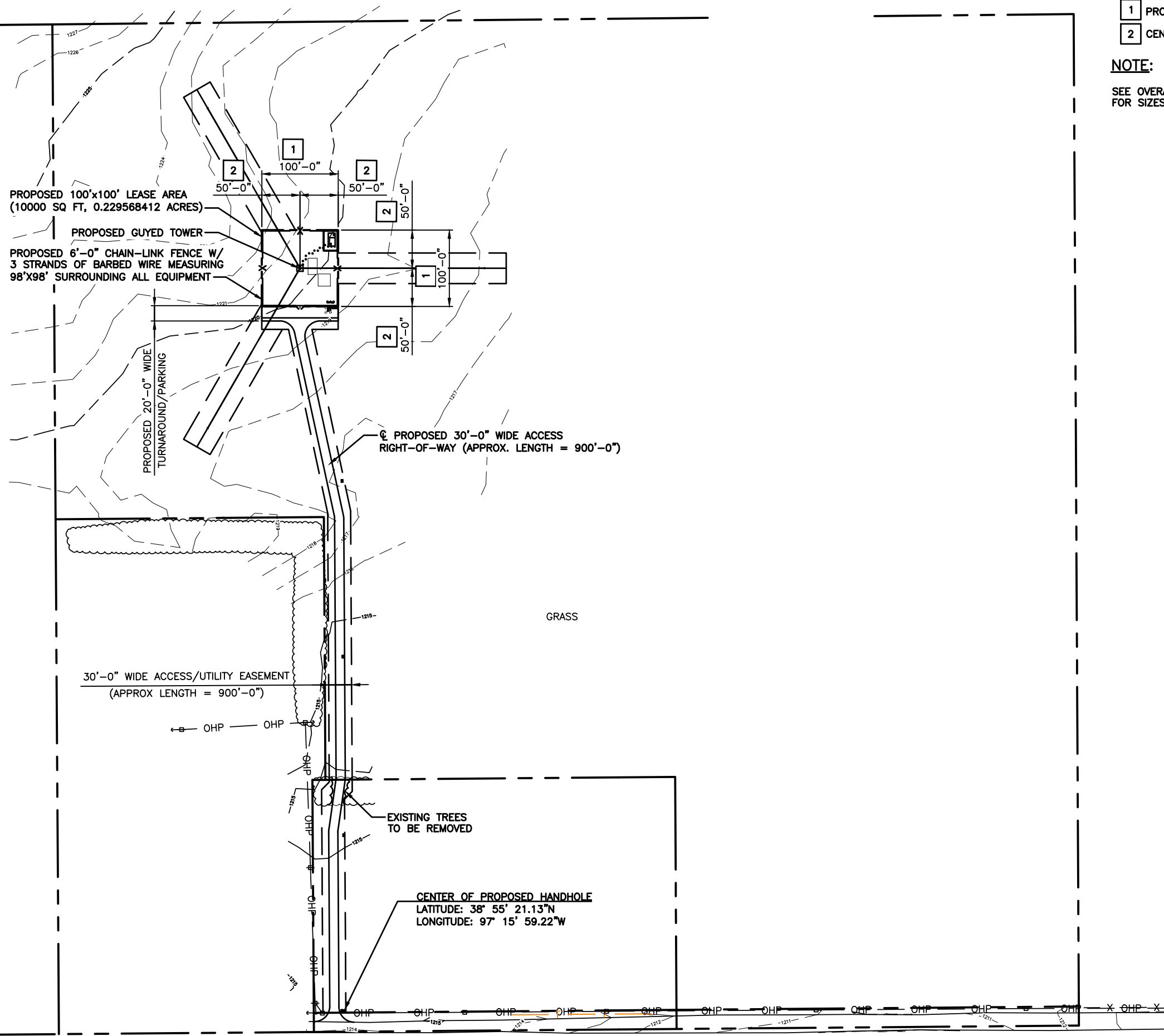
MDG LOCATION ID:
TBD

SITE ADDRESS:
**2200 BLOCK FAIR RD
ABILENE, KS 67410**

SHEET DESCRIPTION:
GRADING PLAN

SHEET #:
C-0.0

- NEW VZW UTILITY EASEMENT
- ACCESS/UTILITY EASEMENT
- VZW LANDSPACE
- PENETRATIONS
- RR/HBBU
- ANTENNAS
- FIBER
- POWER/GROUNDING
- HYBRID & COAX CABLES



KEYED NOTES:

1 PROPOSED LEASE BOUNDARY

2 CENTER OF TOWER

NOTE:

SEE OVERALL UTILITY PLAN (SHEET E-1.0) FOR SIZES, LENGTHS & ROUTING OF UTILITIES.

STAMP:

DocuSign by: *Ch. Giannotti*

ENGINEERING LICENSE:

STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
GO	CHRISTOPHER GIANNOTTI 26673	CIVIL
PJD	PATRICK J. DAVIS 25097	CIVIL
SDK	SHELTON D. KEISLING 13654	ELECTRICAL
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APPLICANT SITE NAME:

US-KS-5112 RED BUD LAKE

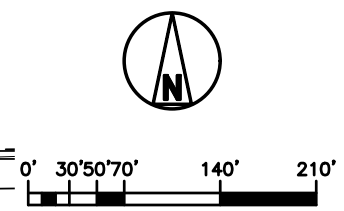
MDG LOCATION ID:

TBD

SITE ADDRESS:

**2200 BLOCK FAIR RD
ABILENE, KS 67410**

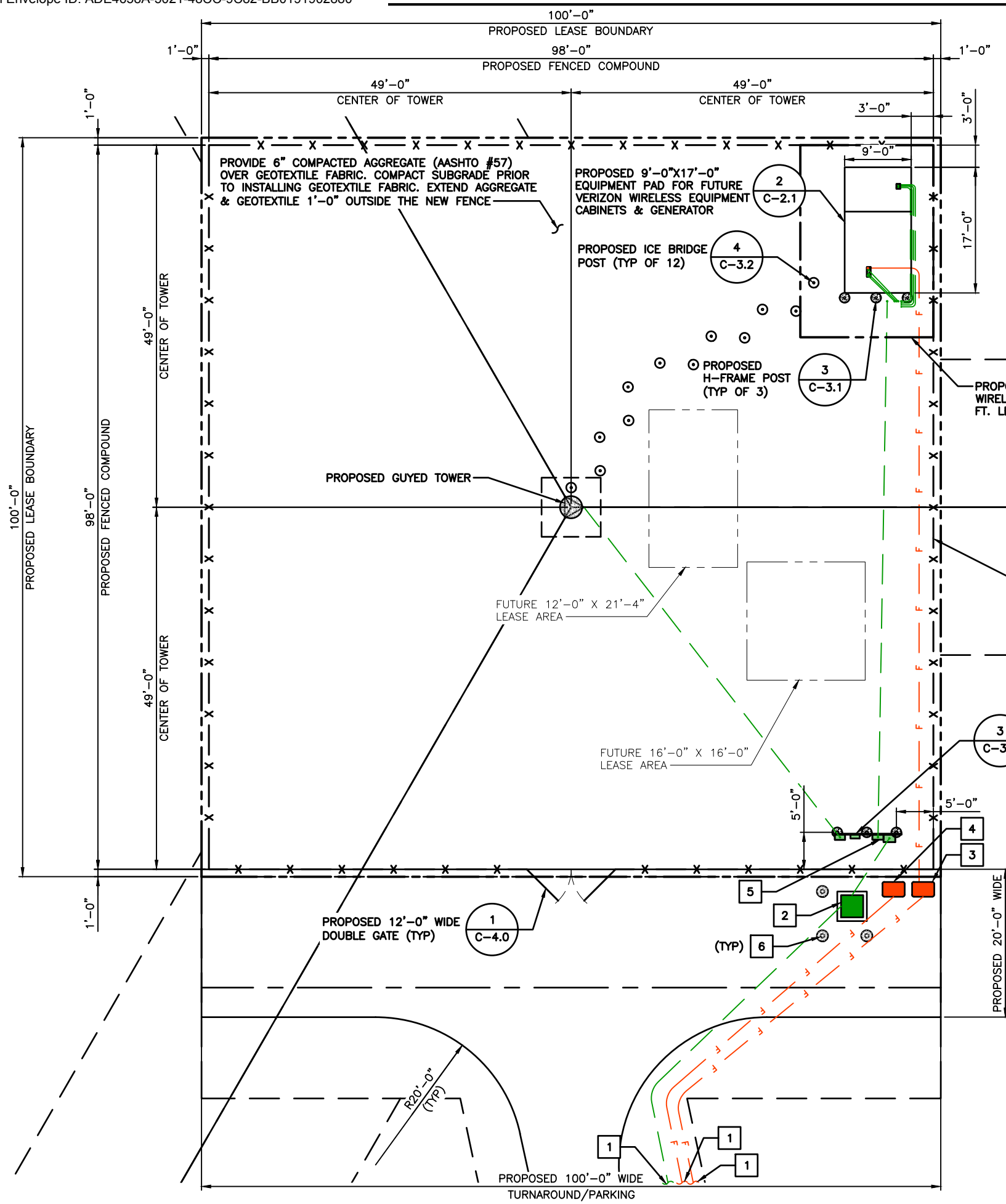
SHEET DESCRIPTION:	SHEET #:
OVERALL SITE PLAN	C-1.0



OVERALL SITE PLAN

SCALE: 1:70 (22"x34")
SCALE: 1:140 (11"x17")

NEW VZW UTILITY EASEMENT
 ACCESS/UTILITY EASEMENT
 VZW LANDSPACE
 PENETRATIONS
 RR/HIBBU
 ANTENNAS
 FIBER
 POWER/GROUNDING
 HYBRID & COAX CABLES



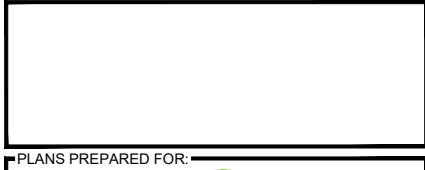
- KEYED NOTES:**
- 1 SEE OVERALL UTILITY PLAN (SHEET E-1.0) FOR ROUTING OF UTILITIES
 - 2 PROPOSED PAD MOUNTED UTILITY TRANSFORMER
 - 3 PROPOSED 3'-0"x2'-0"x2'-0" TRAFFIC RATED FIBER HANDHOLE (COVER SHALL BE STAMPED "VERIZON")
 - 4 PROPOSED 3'-0"x2'-0"x2'-0" TRAFFIC RATED FIBER HANDHOLE
 - 5 PROPOSED METER CENTER
 - 6 PROPOSED BOLLARD (SEE SHEET C-3.2, DETAIL 1)

STAMP: 10/2026
 CHRISTOPHER GIANNOTTI
 LICENSED
 26673
 KANSAS
 PROFESSIONAL ENGINEER
 DocuSign by: *Ch. Smith*
 00D363C201C34A0

ENGINEERING LICENSE:
 STATE OF KANSAS
 PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
DCJ CHRISTOPHER GIANNOTTI	26673	CIVIL
PJD PATRICK J. DAVIS	25087	CIVIL
SDK SHELTON D. KEISLING	13654	ELECTRICAL
MHCM MARIA H.C. MARTINEZ	24992	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

PLANS PREPARED FOR:



PLANS PREPARED BY:



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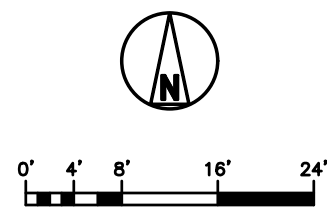
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ISSUED FOR CONSTRUCTION	04/10/26	AWD	0

APPLICANT SITE NAME:
 US-KS-5112 RED BUD LAKE

MDG LOCATION ID:
 TBD

SITE ADDRESS:
 2200 BLOCK FAIR RD
 ABILENE, KS 67410

SHEET DESCRIPTION: ENLARGED SITE PLAN
 SHEET #: C-1.1

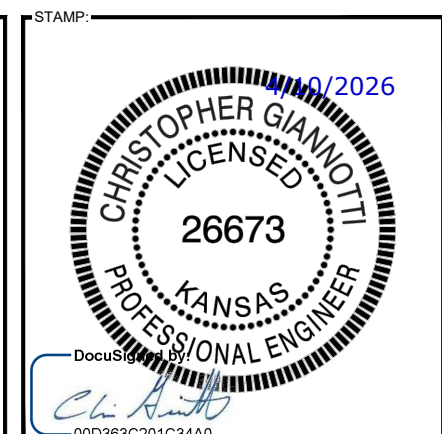


1/8" = 1'-0" (22"x34")
 1/16" = 1'-0" (11"x17")

ENLARGED SITE PLAN

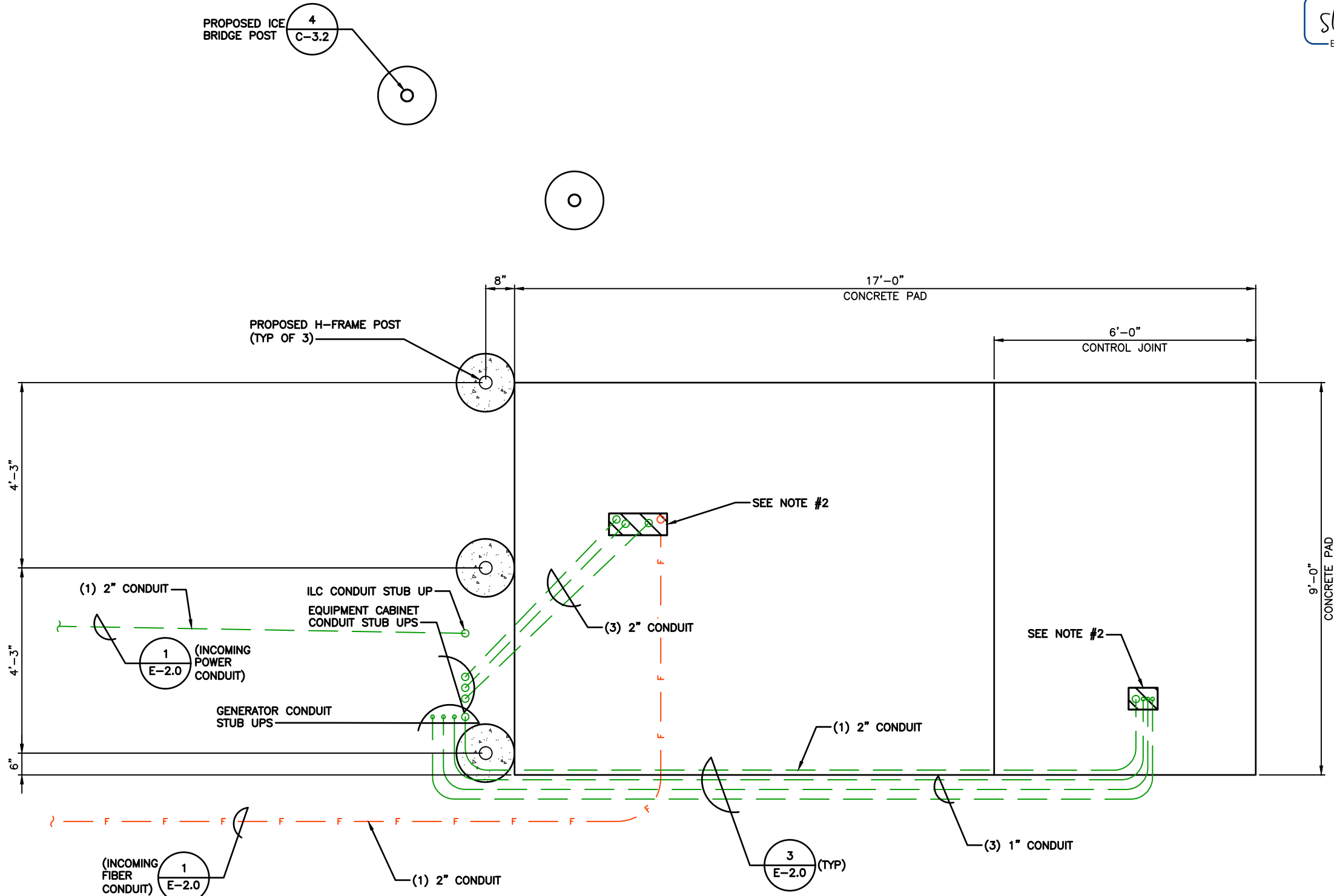
NOTES:

1. SEE ENLARGED UTILITY PLAN (SHEET E-1.1) FOR ORIENTATION & CONTINUATION OF CONDUITS.
2. SEE EQUIPMENT PAD DETAIL (SHEET C-2.1) FOR SIZE & LOCATION OF CONDUIT KNOCKOUTS.



ENGINEERING LICENSE:
STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
DO CHRISTOPHER GIANNOTTI	26673	CIVIL
PJD PATRICK J. DAVIS	25097	CIVIL
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MDG LOCATION ID:
TBD

SITE ADDRESS:
**2200 BLOCK FAIR RD
ABILENE, KS 67410**

SHEET DESCRIPTION: EQUIPMENT LAYOUT	SHEET #: C-2.0
---	--------------------------

EQUIPMENT LAYOUT

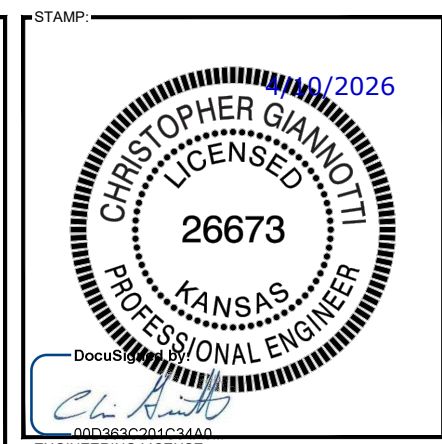
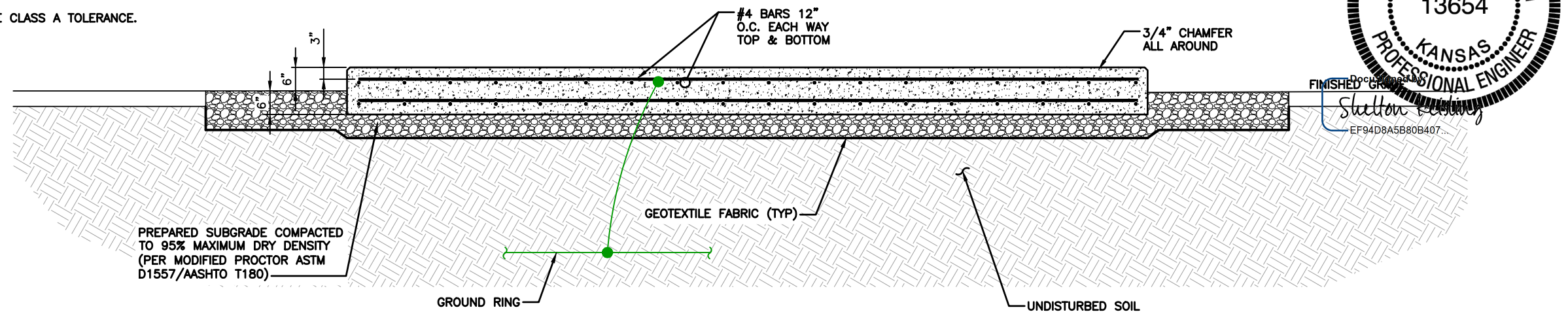
3/4" = 1'-0" (22"x34")
3/8" = 1'-0" (11"x17")

SLIP JOINT NOTE:

CONTRACTOR SHALL ALWAYS INSTALL CONDUIT SLIP JOINTS WHEN USING THIS FOUNDATION (SEE SHEET E-2.2, DETAIL 3).

NOTE:

CONCRETE FINISH TO BE CLASS A TOLERANCE.



ENGINEERING LICENSE:
STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
PJD CHRISTOPHER GIANNOTTI	26673	CIVIL
SDK PATRICK J. DAVIS	25087	CIVIL
MHCM SHELTON D. KEISLING	13654	ELECTRICAL
TMS MARIA H.C. MARTINEZ	24992	ELECTRICAL
	9250	ELECTRICAL

CONCRETE EQUIPMENT PAD – ELEVATION VIEW

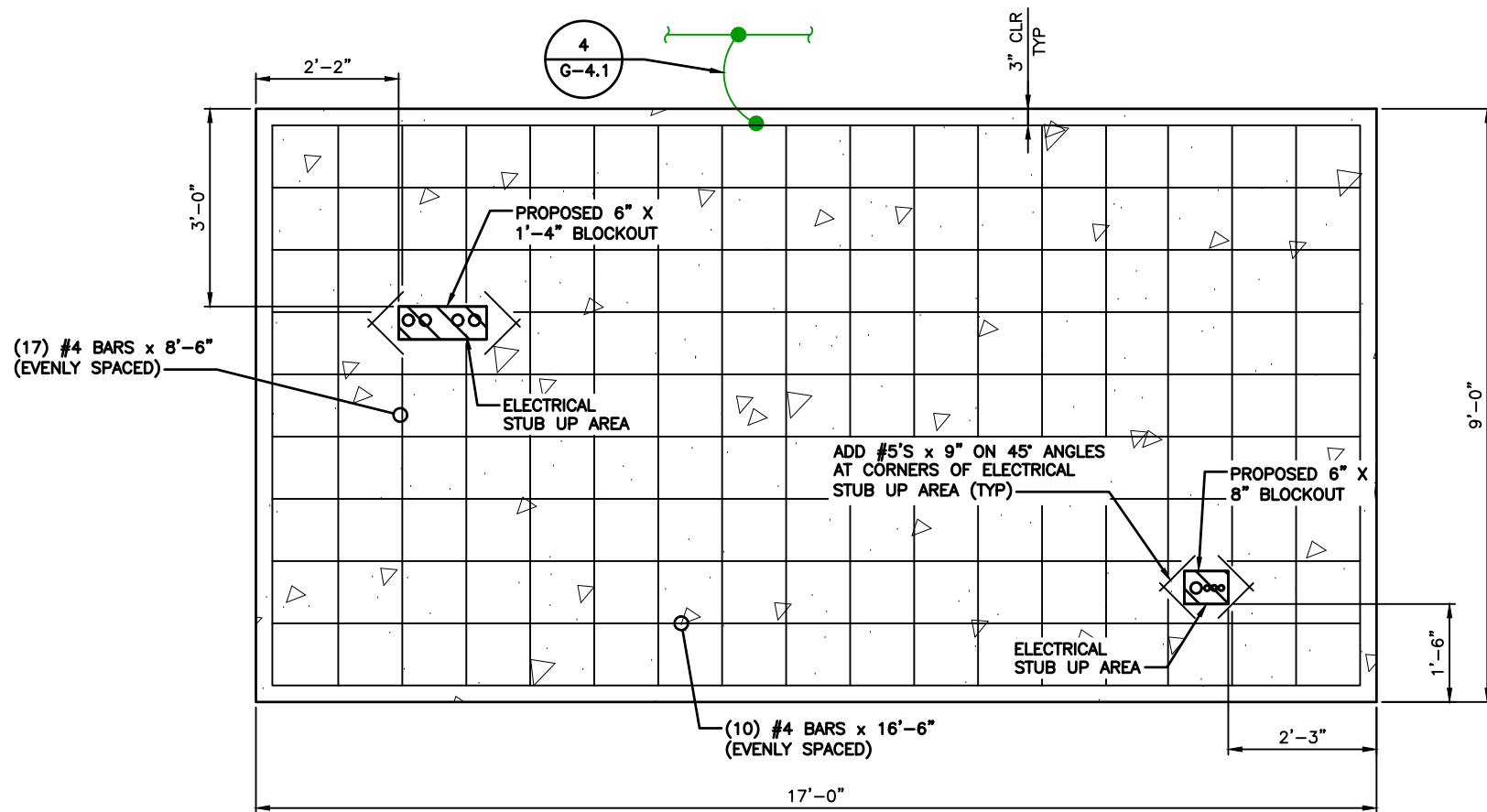
3/4" = 1'-0" (22"x34")
3/8" = 1'-0" (11"x17")

NOTES:

- SEE ENLARGED UTILITY PLAN, SHEET E-1.1 FOR ORIENTATION & CONTINUATION OF CONDUITS.
- PLACE FORMS & CONCRETE REINFORCEMENT. PLACE & FINISH CONCRETE.

NOTE:

4" MINIMUM DISTANCE NEEDED FROM CONCRETE EDGES BEFORE DRILLING ANCHORS TO SUPPORT CABINETS.



CONCRETE EQUIPMENT PAD – PLAN VIEW

3/4" = 1'-0" (22"x34")
3/8" = 1'-0" (11"x17")



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SUBMITTALS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	07/14/25	DSL	A
REISSUED PER FIBER RUN	09/09/25	AWD	B
ISSUED FOR CONSTRUCTION	04/10/26	AWD	0

APPLICANT SITE NAME:
US-KS-5112 RED BUD LAKE

MDG LOCATION ID:
TBD

SITE ADDRESS:
**2200 BLOCK FAIR RD
ABILENE, KS 67410**

SHEET DESCRIPTION: EQUIPMENT PAD DETAILS	SHEET #: C-2.1
--	--------------------------

NEW/7/21
UTILITY
EASEMENT

ACCESS/UTILITY
EASEMENT

VZM LANDSPACE

PENETRATIONS

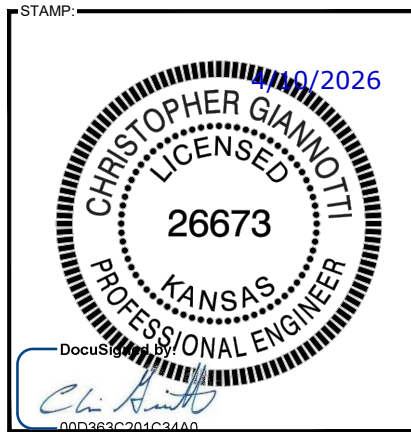
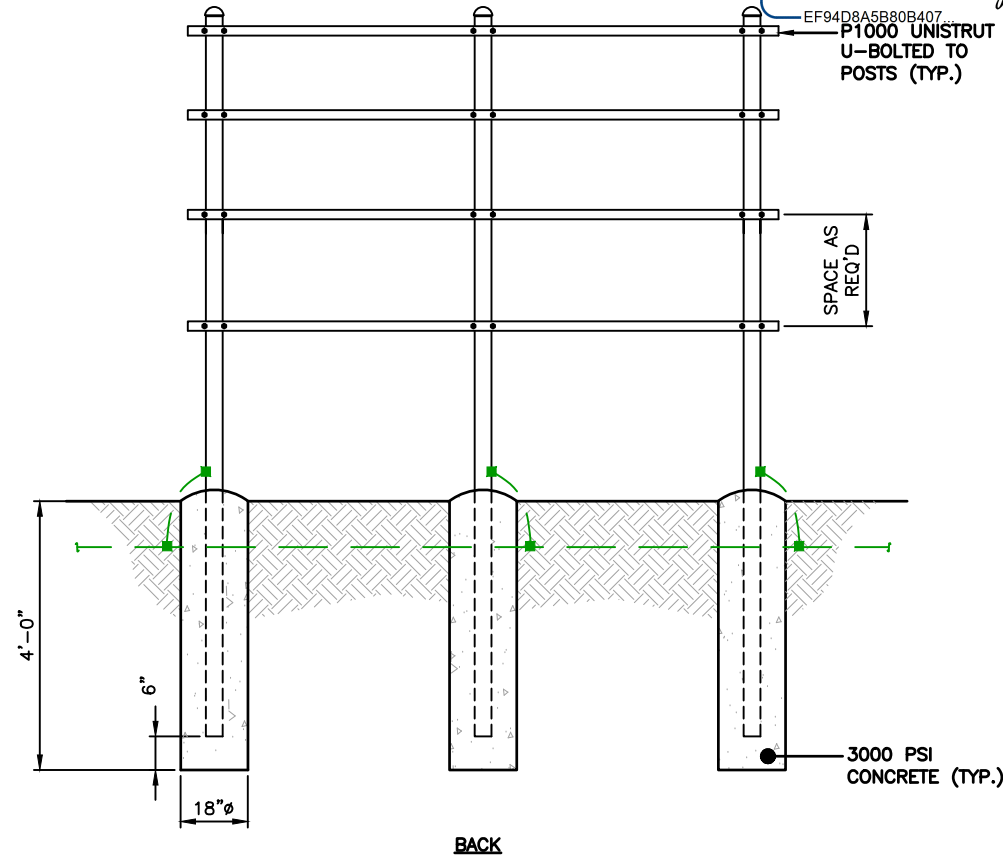
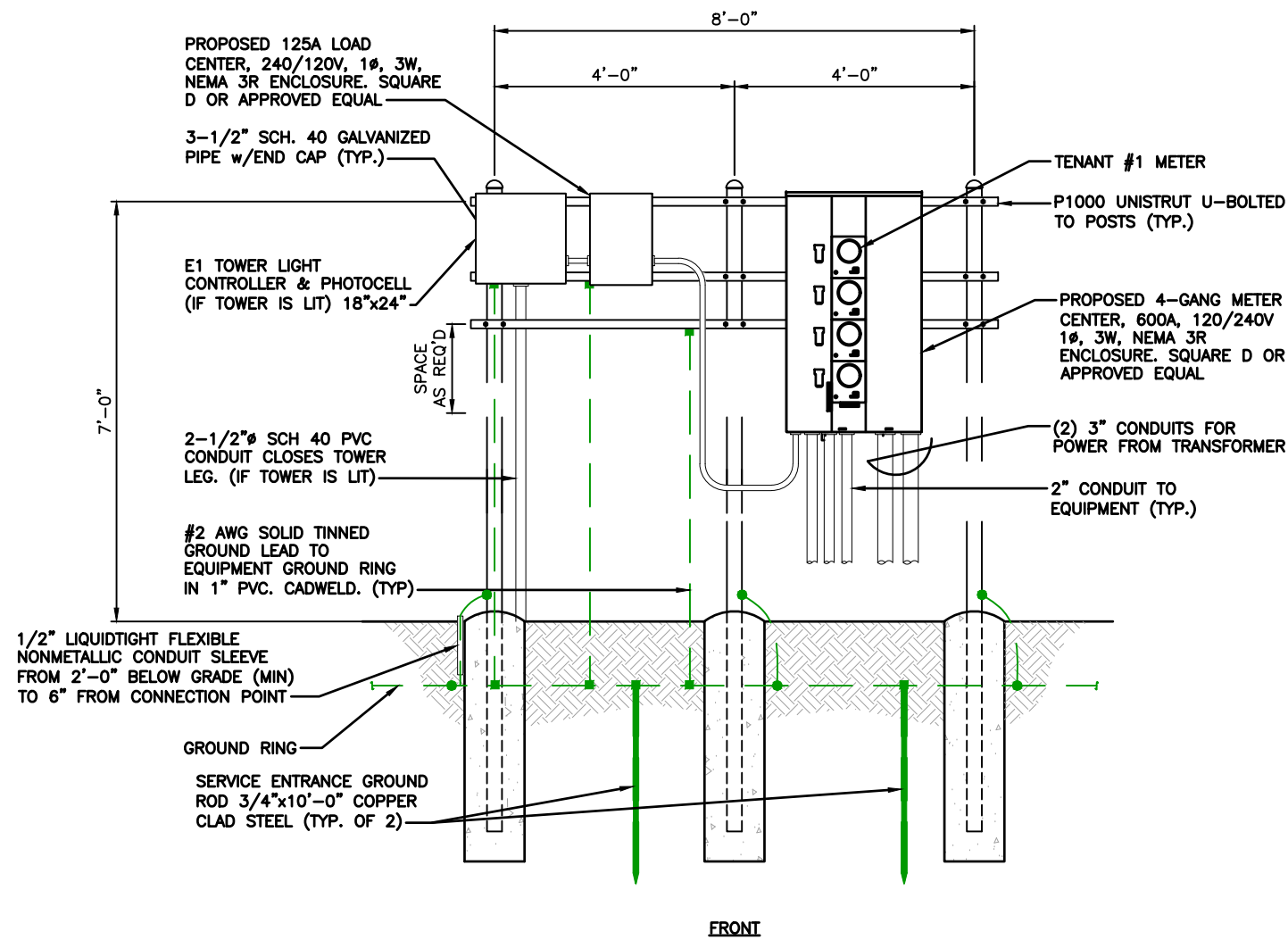
RR/HIBBU

ANTENNAS

FIBER

POWER/
GROUNDING

HYBRID &
COAX CABLES



ENGINEERING LICENSE:

STATE OF KANSAS

PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
CC: CHRISTOPHER GIANNOTTI 26673		CIVIL
PJD: PATRICK J. DAVIS 25097		CIVIL
SDK: SHELTON D. KEISLING 13654		ELECTRICAL
MHCM: MARIA H.C. MARTINEZ 24992		ELECTRICAL
TMS: TERRANCE M. SUPER 9250		ELECTRICAL



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US-KS-5112 RED BUD LAKE

MDG LOCATION ID:

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SITE ADDRESS:

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ABILENE, KS 67410

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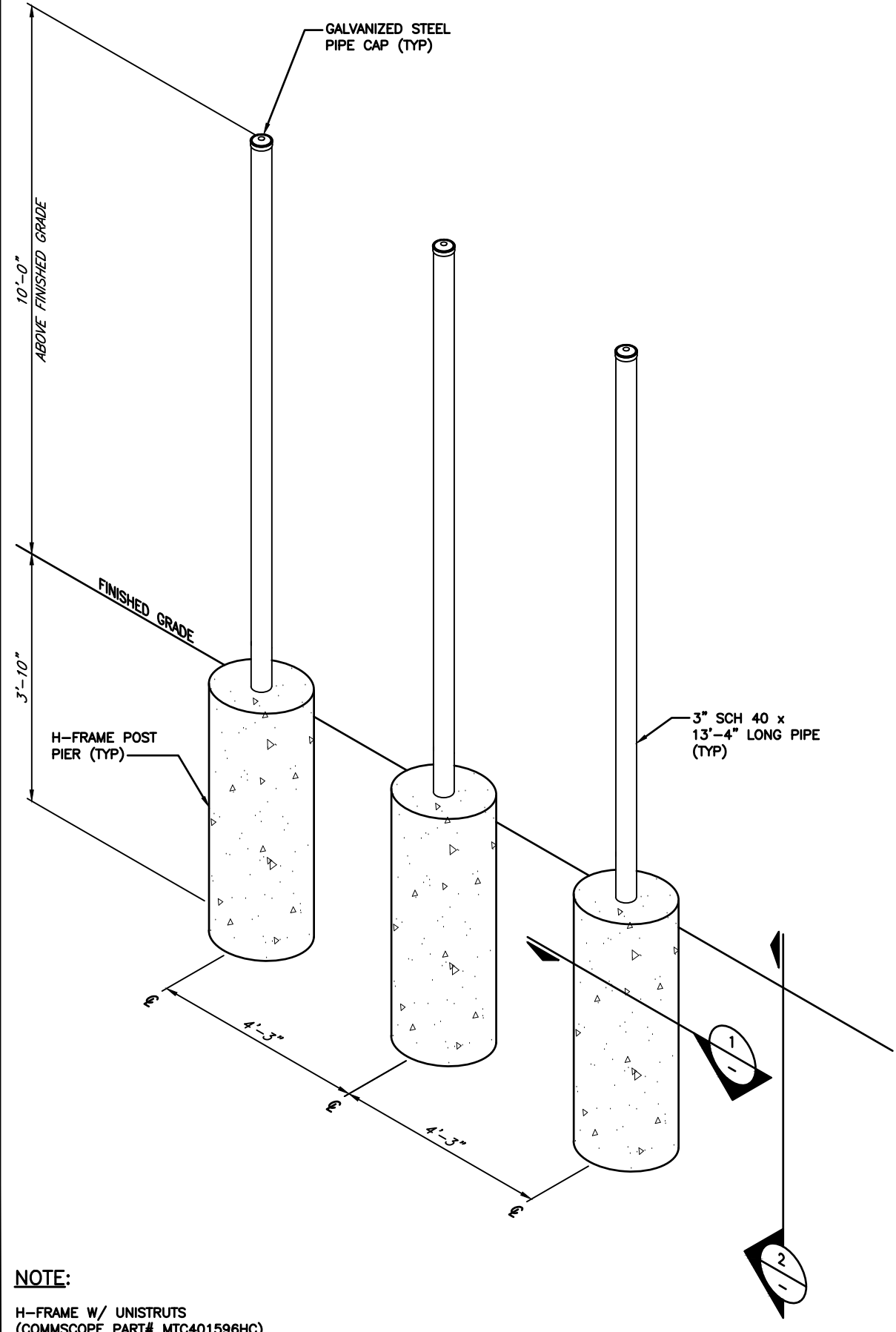
METER CENTER RACK DETAIL

SHEET #:

C-3.0

METER CENTER RACK DETAIL

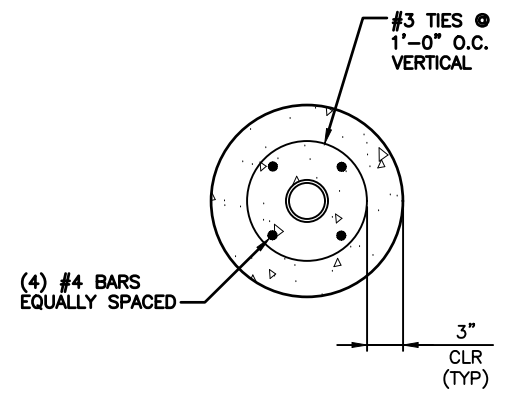
NEW VZM UTILITY EASEMENT
 ACCESS/UTILITY EASEMENT
 VZM LANDSPACE
 PENETRATIONS
 RR/RIBBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES



NOTE:
 H-FRAME W/ UNISTRUTS
 (COMMSCOPE PART# MTC401596HC)

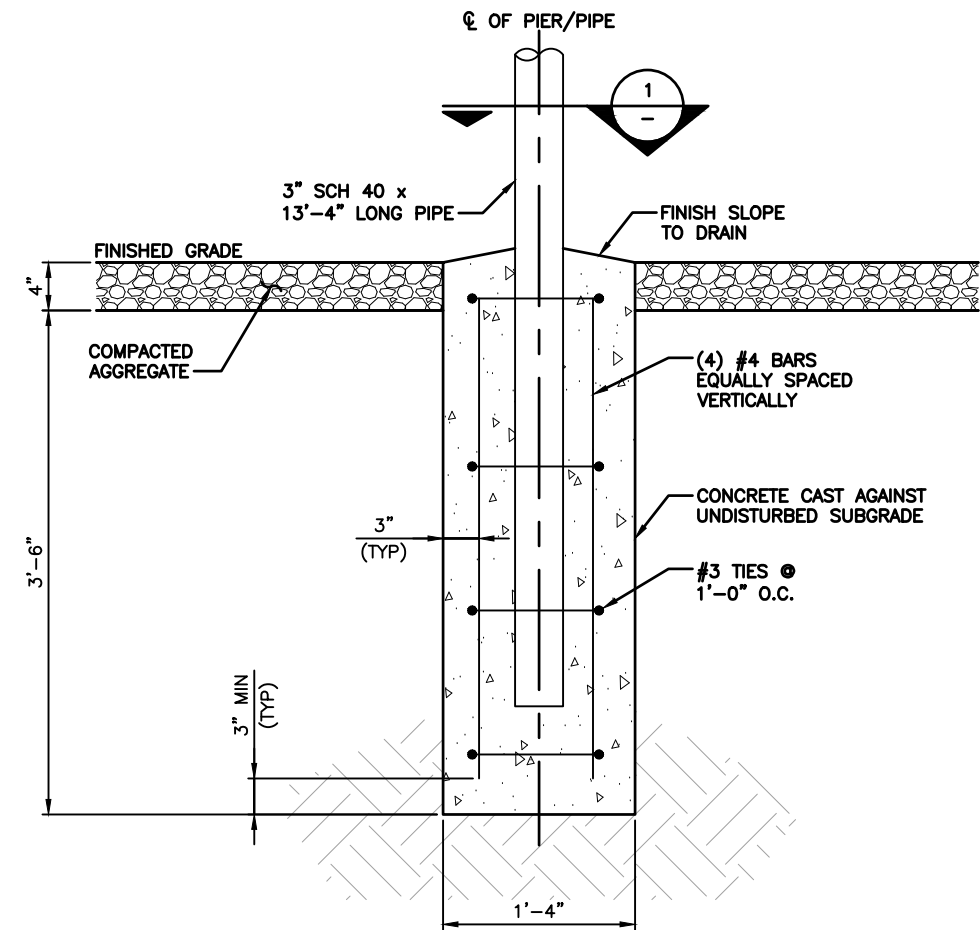
H-FRAME POST DETAIL

3



CONCRETE PIER REINFORCEMENT PLAN

1



CONCRETE PIER REINFORCEMENT ELEVATION

2

STAMP: 10/2026
 CHRISTOPHER GIANNOTTI
 LICENSED
 26673
 KANSAS
 PROFESSIONAL ENGINEER
 DocuSign by: *Ch. Giannotti*
 00D363C201C34A0

ENGINEERING LICENSE:
 STATE OF KANSAS
 PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
DO: CHRISTOPHER GIANNOTTI 26673	26673	CIVIL
PJD: PATRICK J. DAVIS 25097	25097	CIVIL
SDK: SHELTON D. KEISLING 13654	13654	ELECTRICAL
MHCM: MARIA H.C. MARTINEZ 24992	24992	ELECTRICAL
TMS: TERRANCE M. SUPER 9250	9250	ELECTRICAL

PLANS PREPARED FOR:

PLANS PREPARED BY:

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APPLICANT SITE NAME:
 US-KS-5112 RED BUD LAKE

MDG LOCATION ID:
 TBD

SITE ADDRESS:
 2200 BLOCK FAIR RD
 ABILENE, KS 67410

SHEET DESCRIPTION: H-FRAME POST DETAIL	SHEET #: C-3.1
---	-------------------

NEW VZM
UTILITY
EASEMENT

ACCESS/UTILITY
EASEMENT

VZM LANDSPACE

PENETRATIONS

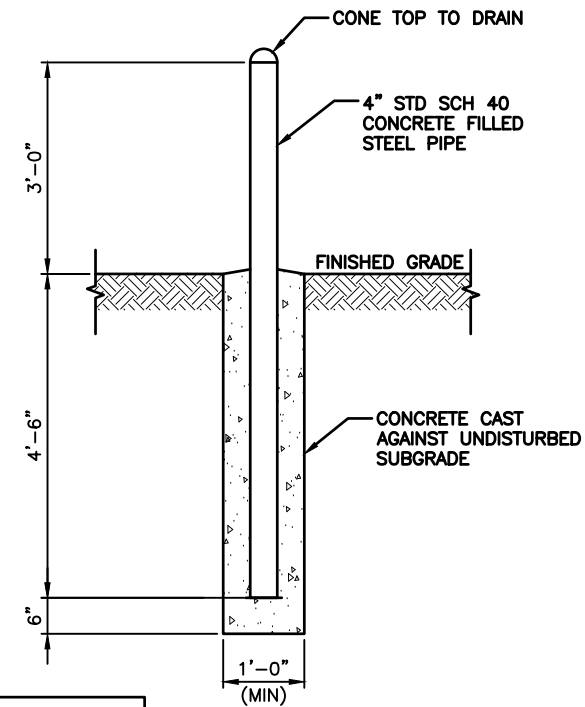
RR/HBBU

ANTENNAS

FIBER

POWER/
GROUNDING

HYBRID &
COAX CABLES



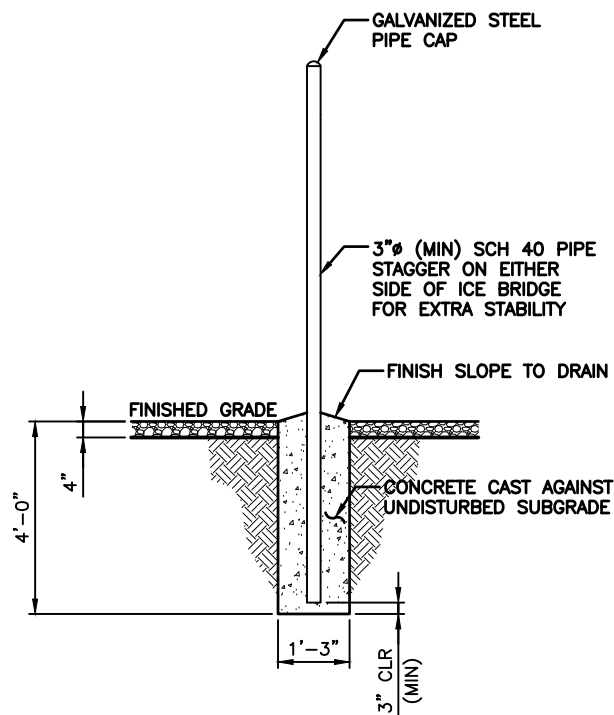
SPECIFICATIONS:
MATERIAL: STEEL
FINISH: POWDER COATED - SEMI GLOSS
COLORING: SAFETY YELLOW

DETAIL NOT USED

3

BOLLARD DETAIL

1



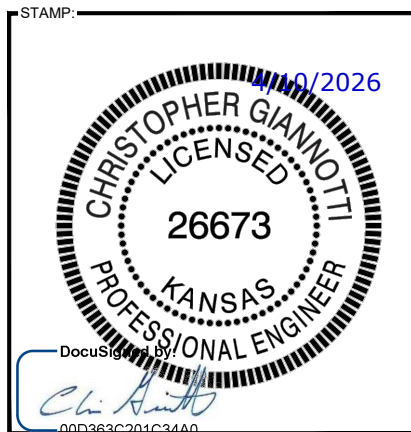
NOTE:
 FURNISHED & INSTALLED
 BY CONTRACTOR.

ICE BRIDGE SUPPORT POST DETAIL

4

DETAIL NOT USED

2



ENGINEERING LICENSE:
 STATE OF KANSAS
 PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
CG CHRISTOPHER GIANNOTTI	26673	CIVIL
PJD PATRICK J. DAVIS	25097	CIVIL
SDK SHELTON D. KEISLING	13654	ELECTRICAL
MHCM MARIA H.C. MARTINEZ	24992	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

PLANS PREPARED FOR:



PLANS PREPARED BY:



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APPLICANT SITE NAME:

US-KS-5112 RED BUD LAKE

MDG LOCATION ID:

TBD

SITE ADDRESS:

2200 BLOCK FAIR RD
 ABILENE, KS 67410

SHEET DESCRIPTION:

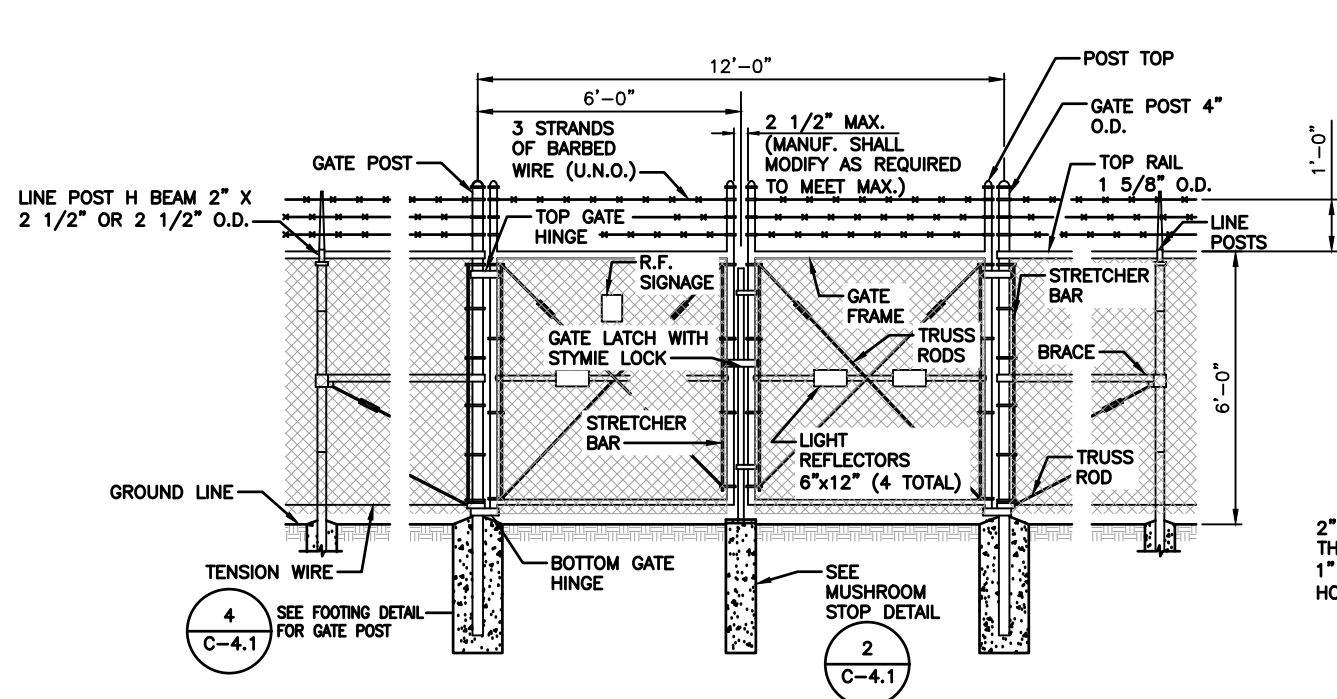
DETAILS

SHEET #:

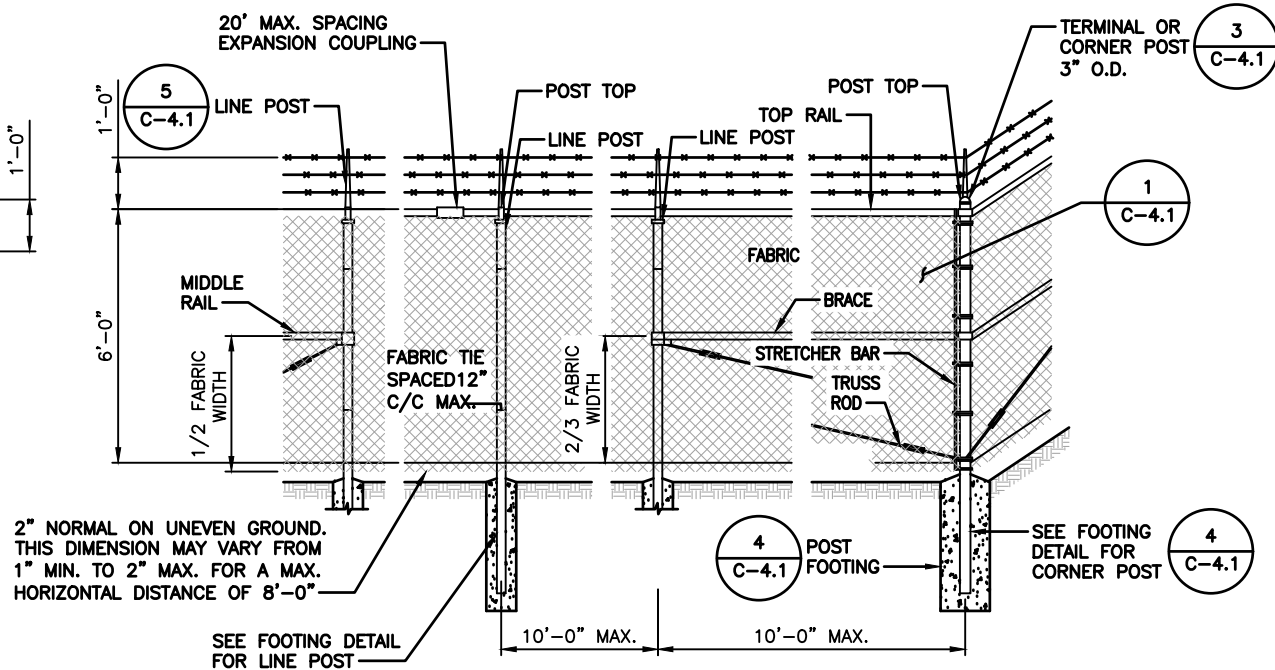
C-3.2

SECURITY FENCE NOTE:

NUTS ON ALL BOLTS SHALL BE TOWARD THE INTERIOR OF THE COMPOUND.



VEHICLE GATE ARRANGEMENT



POST/CORNER POST ARRANGEMENT

NOTES:

- ZINC COATING - THE WEIGHT OF THE COATING SHALL NOT BE LESS THAN 1.2 OUNCES PER SQUARE FOOT OF ACTUAL SURFACE COVERED. ALL FERROUS METALS USED AS PART OF THE FENCE INSTALLATION SHALL BE HOT DIP GALVANIZED OR STAINLESS STEEL. ALL SCREWS, BOLTS, LOCK WASHERS, NUTS, ETC. SHALL BE HOT DIP GALVANIZED OR MADE OF STAINLESS STEEL.
- FABRIC - STANDARD INDUSTRIAL GRADE #9 GAUGE WITH 2 INCH MESH ZINC COATED CHAIN LINK WITH A BREAKING STRENGTH OF NOT LESS THAN 1290 POUNDS SHALL BE USED. THE FABRIC SHALL BE ZINC COATED BY THE HOT DIP PROCESS AFTER FABRICATION.
- METAL POSTS - METAL POSTS (LINE, CORNER, TERMINAL, GATE POSTS, MIDDLE RAILS, BRACES AND TOP RAIL) SHALL BE HOT DIP GALVANIZED SCHEDULE 40 TUBULAR STEEL WITH AN OUTSIDE DIAMETER AS INDICATED ON THIS DRAWING. A POST TOP FITTING OF GALVANIZED STEEL WILL BE INSTALLED TO EXCLUDE MOISTURE.
- POST CAPS - ALL POST CAPS TO USE THE BARBED WIRE OUTRIGGER BRACKET AND SHALL BE ATTACHED TO THE POST WITH TAMPER RESISTANT SCREWS, BRADS, OR BOLTS.
- TOP RAIL - A MINIMUM OF ONE COUPLING IN EACH STRAIGHT RUN OF TOP RAIL, SHALL HAVE A HEAVY SPRING INSERTED WITHIN THE COUPLING TO TAKE UP EXPANSION AND CONTRACTION OF THE TOP RAIL. THE TOP RAIL SHALL BE FASTENED TO TERMINAL POSTS WITH PRESSED STEEL CONNECTIONS.
- MIDDLE RAIL - THE MIDDLE RAIL SHALL BE OF THE SAME MATERIAL AS THE TOP RAIL AND INSTALLED WITH HOT DIP GALVANIZED FITTINGS ATTACHED TO THE POSTS.
- BRACE RAIL - BRACE RAIL MATERIAL SHALL BE OF THE MATERIAL AS THE TOP RAIL AND LOCATED 2/3 OF THE DISTANCE UP FROM THE BOTTOM OF THE FABRIC. BRACE RAILS SHALL BE SECURELY FASTENED TO POSTS BY SUITABLE PRESSED STEEL CONNECTIONS.
- TRUSS RODS - SHALL BE 3/8" ROUND GALVANIZED STEEL RODS WITH GALVANIZED TURNBUCKLES. THE ZINC COATING SHALL BE NOT LESS THAN 1.2 OUNCES PER SQUARE FOOT OF SURFACE.
- TENSION WIRE - THE TENSION WIRE SHALL BE OF #7 GAUGE HOT DIP GALVANIZED SPRING TENSION WIRE WITH A BREAKING STRENGTH OF NOT LESS THAN 1900 POUNDS. THIS WIRE SHALL BE KEPT TAUT WITH GALVANIZED TURNBUCKLES AND ATTACHED TO POSTS WITH GALVANIZED HARDWARE OR CABLE CLAMPS.
- FABRIC TIES - THE FABRIC TIES SHALL BE ALUMINUM WIRE. NOT LESS THAN #9 GAGE.
- STRETCHER BARS - THE STRETCHER BARS SHALL BE FLAT GALVANIZED STEEL BARS NOT LESS THAN 5/16" X 3/4" AND NOT LESS THAN 2" SHORTER THAN THE FABRIC. STRETCHER BAR BANDS SHALL BE FLAT GALVANIZED STEEL BARS NOT LESS THAN 5/16" X 1 1/2" WITH 5/16" DIAMETER GALVANIZED CARRIAGE BOLT.
- BARBED WIRE - BARBED WIRE OF GALVANIZED STEEL (OR ALUMINUM) CONSISTING OF 12 1/2 GAUGE WIRE WITH 4-POINT BARBS OF 14 GAUGE WIRE SPACED 5 INCHES APART.
- GATE FRAMES SHALL BE CONSTRUCTED OF 2 1/2 INCH OUTSIDE DIAMETER HEAVY DUTY GALVANIZED STEEL PIPE. THE GATES SHALL BE ASSEMBLED USING CORNER FITTINGS OF HEAVY PRESSED STEEL OR MALLEABLE CASTINGS OR MAY BE WELDED IF THE ENTIRE GATE FRAME IS HOT DIP GALVANIZED AFTER THE WELDING. ALL GATES SHALL BE EQUIPPED WITH HEAVY DUTY GALVANIZED STEEL TYPE HINGES WITH LARGE BEARING SURFACES OF ADEQUATE STRENGTH TO SUPPORT THE GATE. THE HINGES SHALL NOT TWIST OR TURN UNDER THE ACTION OF THE GATE. GATES WILL PROVIDE A FULL RANGE OF MOTION AND BE EASILY OPENED AND CLOSED BY ONE PERSON. GATE LATCH SHALL BE CARGO PROTECTORS, INC. MODEL FL-100. LATCH SHALL BE EQUIPPED TO RECEIVE A PADLOCK.
- PROVIDE R.F. WARNING SIGNAGE ON ALL GATES.

STAMP: 10/2026
 CHRISTOPHER GIANNOTTI
 LICENSED
 26673
 KANSAS
 PROFESSIONAL ENGINEER
 DocuSign by: *Ch...*

ENGINEERING LICENSE:
 STATE OF KANSAS
 PE CERTIFICATE OF AUTHORIZATION # E-571
 ENGINEER: PE#: DISCIPLINE:
 C/D CHRISTOPHER GIANNOTTI 26673 CIVIL
 P/D PATRICK J. DAVIS 25087 CIVIL
 SDK SHELTON D. KEISLING 13654 ELECTRICAL
 MHCM MARIA H.C. MARTINEZ 24992 ELECTRICAL
 TMS TERRANCE M. SUPER 9250 ELECTRICAL



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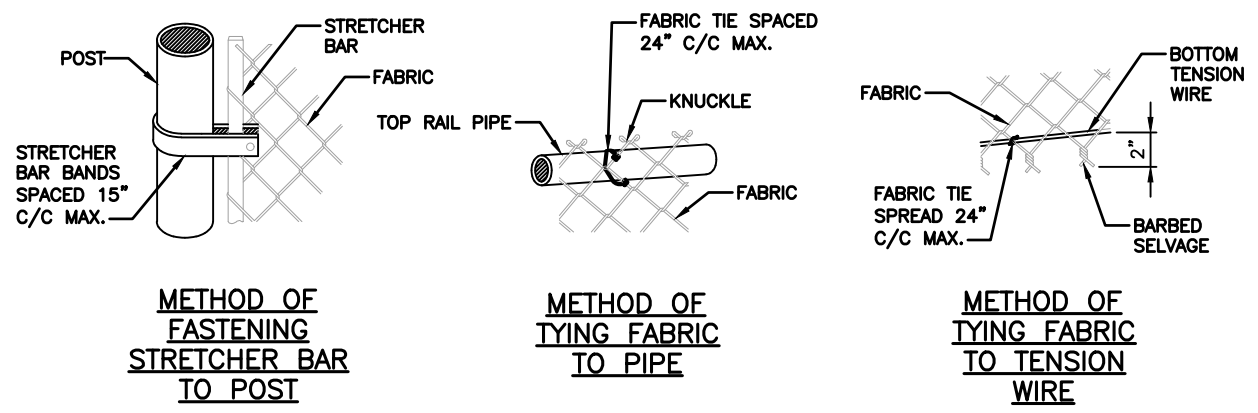
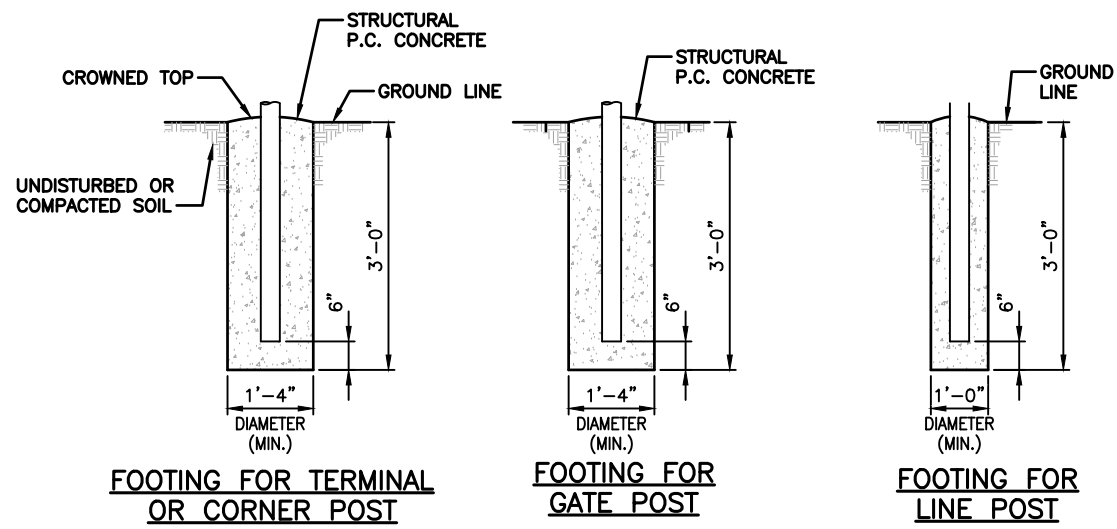
APPLICANT SITE NAME:
 US-KS-5112 RED BUD LAKE

MDG LOCATION ID:
 TBD

SITE ADDRESS:
 2200 BLOCK FAIR RD
 ABILENE, KS 67410

SHEET DESCRIPTION: COMPOUND FENCE DETAILS (1 OF 2)	SHEET #: C-4.0
---	-------------------

NEW VZW UTILITY EASEMENT
 ACCESS/UTILITY EASEMENT
 VZW LANDSPACE
 PENETRATIONS
 RR/IBBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES



POST FOOTINGS

4

FABRIC/BAR CONNECTIONS

1

STAMP: 10/2026

DocuSign by: *Ch. Giannotti*

ENGINEERING LICENSE: STATE OF KANSAS
 PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
CGD CHRISTOPHER GIANNOTTI 26673	26673	CIVIL
PJD PATRICK J. DAVIS 25097	25097	CIVIL
SDK SHELTON D. KEISLING 13654	13654	ELECTRICAL
MHCM MARIA H.C. MARTINEZ 24992	24992	ELECTRICAL
TMS TERRANCE M. SUPER 9250	9250	ELECTRICAL

PLANS PREPARED FOR:

PLANS PREPARED BY:

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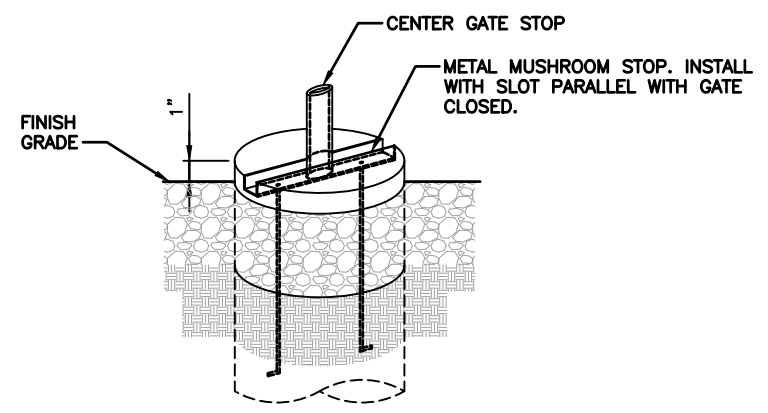
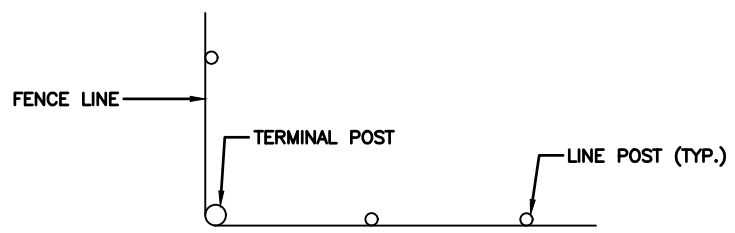
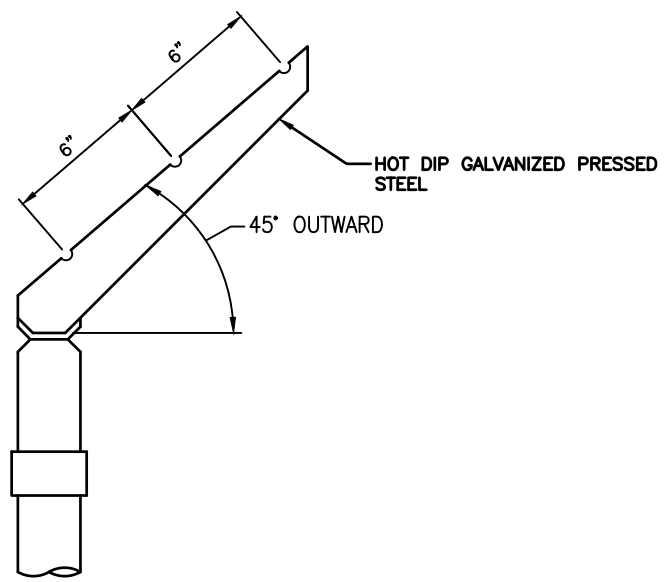
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SHEET DESCRIPTION: COMPOUND FENCE DETAILS (2 OF 2)	SHEET #: C-4.1
---	-------------------



BARBED WIRE ARM OF LINE POST

5

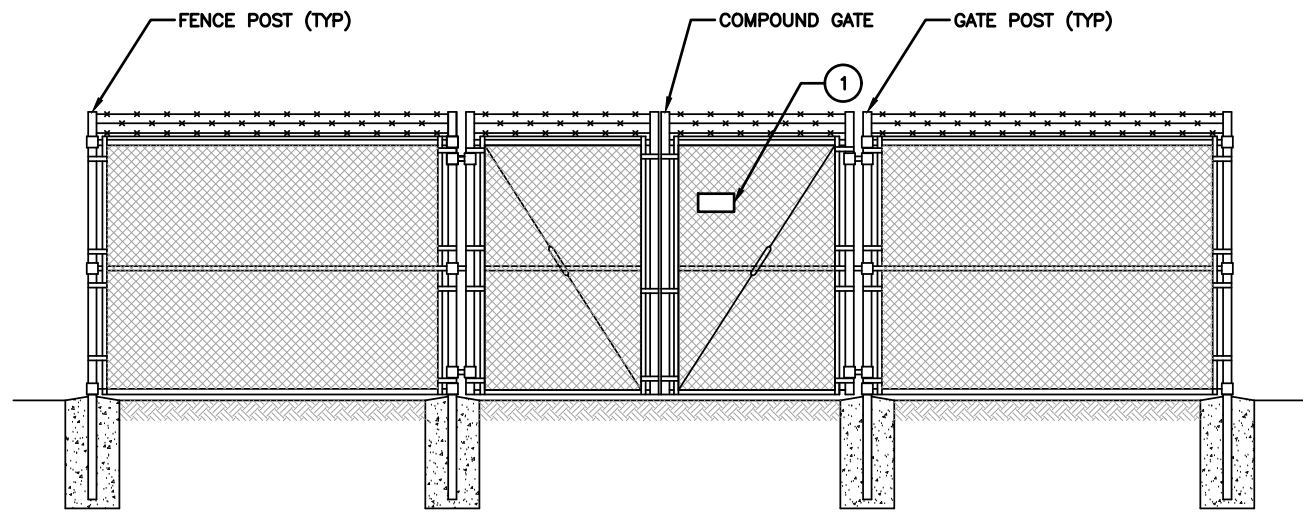
INSTALLATION AT CORNERS

3

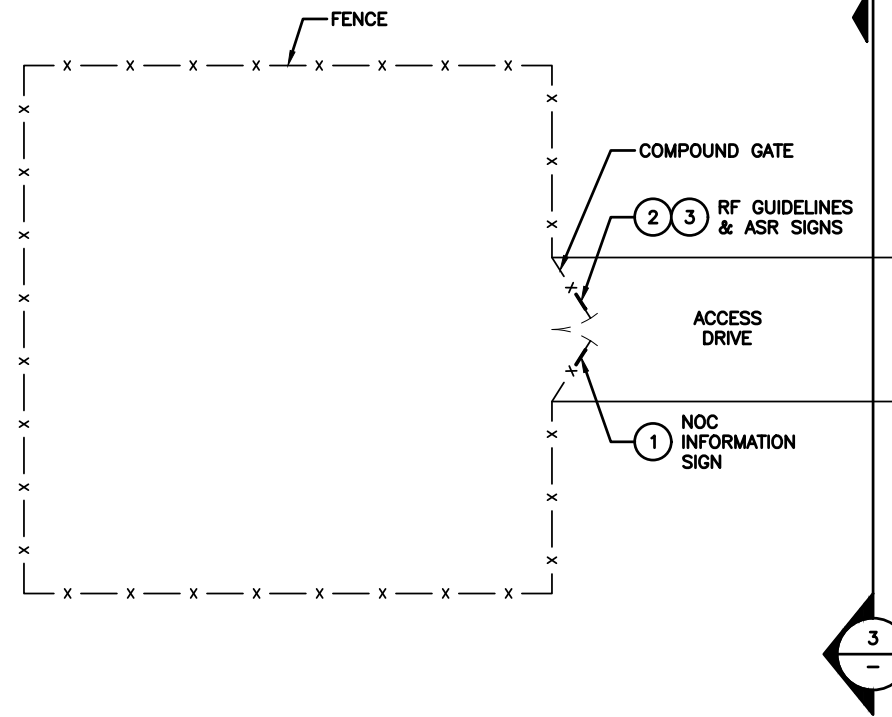
MUSHROOM STOP DETAIL

2

NEW VZW UTILITY EASEMENT
 ACCESS/UTILITY EASEMENT
 VZW LANDSPACE
 PENETRATIONS
 RR/IBBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES



NOTE:
 ELEVATION IS LOOKING FROM
 EXTERIOR OF FENCED COMPOUND.



FENCE SIGNAGE PLACEMENT

FENCE SIGNAGE PLAN



WHITE BACKGROUND
 W/ BLACK LETTERING

FCC TOWER
 REGISTRATION
 NUMBER

ASR SIGN
 1'-0" WIDE x 6" HIGH

FENCE SIGNAGE

STAMP: 10/2026

 DocuSign by: *Ch. Giannotti*
 00D363C201C34A0

ENGINEERING LICENSE:
 STATE OF KANSAS
 PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
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PJD PATRICK J. DAVIS 25037	25037	CIVIL
SDK SHELTON D. KEISLING 13654	13654	ELECTRICAL
MHCM MARIA H.C. MARTINEZ 24992	24992	ELECTRICAL
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PLANS PREPARED FOR:

PLANS PREPARED BY:

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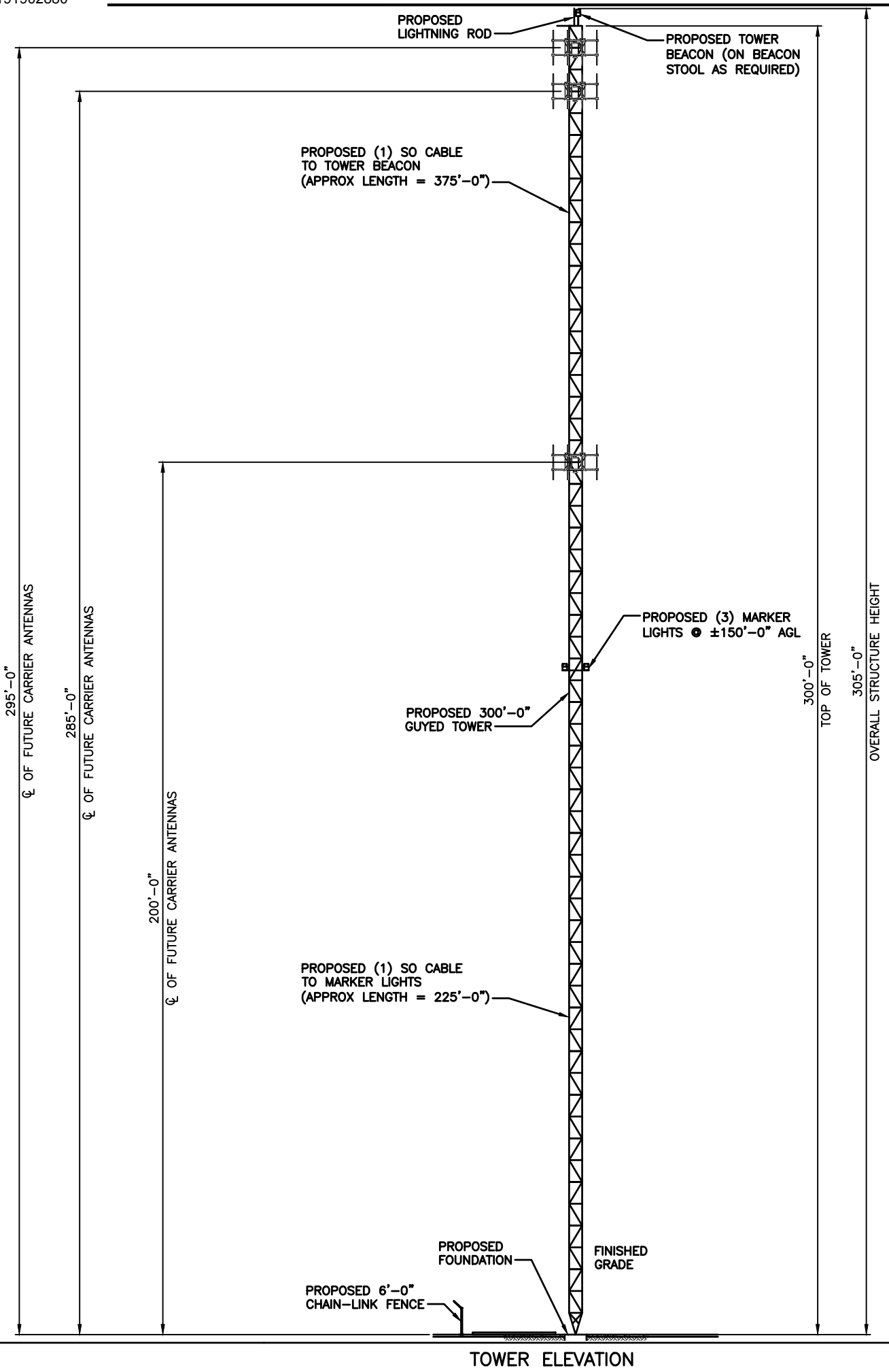
APPLICANT SITE NAME:
 US-KS-5112 RED BUD LAKE

MDG LOCATION ID:
 TBD

SITE ADDRESS:
 2200 BLOCK FAIR RD
 ABILENE, KS 67410

SHEET DESCRIPTION: SIGNAGE DETAILS	SHEET #: C-5.0
---------------------------------------	-------------------

- NEW VZW UTILITY EASEMENT
- ACCESS/UTILITY EASEMENT
- VZW LANDSPACE
- PENETRATIONS
- RR/IBBU
- ANTENNAS
- FIBER
- POWER/GROUNDING
- HYBRID & COAX CABLES



TOWER ELEVATION

1

EQUIPMENT FURNISHED AND/OR INSTALLED BY:		
DESCRIPTION	FURNISHED	INSTALLED
ANCHOR BOLTS FOR TOWER	TOWER VENDOR	CONTRACTOR
ANTENNA MOUNTS	TOWER VENDOR	CONTRACTOR
ANTENNAS	VERTICAL BRIDGE	CONTRACTOR
FEEDLINE CABLES	VERTICAL BRIDGE	CONTRACTOR
CONNECTORS	CONTRACTOR	CONTRACTOR
ENTRY PORT BOOTS	CONTRACTOR	CONTRACTOR
GPS ANTENNA	VERTICAL BRIDGE	CONTRACTOR
GROUND KITS	CONTRACTOR	CONTRACTOR
HANGAR KITS	CONTRACTOR	CONTRACTOR
ICE BRIDGE MATERIAL	CONTRACTOR	CONTRACTOR
RF JUMPERS (TOP)	CONTRACTOR	CONTRACTOR
EQUIPMENT	VERTICAL BRIDGE	CONTRACTOR
EQUIPMENT PLATFORM/CANOPY	VERTICAL BRIDGE	CONTRACTOR
TOWER	VERTICAL BRIDGE	CONTRACTOR
TOWER BUS BARS	CONTRACTOR	CONTRACTOR
OVP'S	VERTICAL BRIDGE	CONTRACTOR
RRU'S	VERTICAL BRIDGE	CONTRACTOR

ALL STRUCTURE INFORMATION SHOWN IS FOR ILLUSTRATION PURPOSES ONLY, AND MAY DIFFER FROM THE FINAL DESIGN PROVIDED BY THE STRUCTURE MANUFACTURER. THE CONTRACTOR SHALL CONSTRUCT THE STRUCTURE, FOUNDATION, AND ALL OTHER RELATED COMPONENTS IN ACCORDANCE WITH THE STRUCTURE MANUFACTURER'S DRAWINGS AND SPECIFICATIONS.

TOWER LIGHTING NOTE:

PROPOSED TOWER BEACON/MARKER LIGHTS @ TOP OF TOWER TO COMPLY WITH FAA TYPE E1 FROM 200'-0" - 350'-0" AGL (FTS PART# F1702010 OR EQUIVALENT).

STAMP: 10/2026

DocuSign by: *Ch. Giannotti*

ENGINEERING LICENSE:

STATE OF KANSAS

PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
CHRISTOPHER GIANNOTTI	26673	CIVIL
PATRICK J. DAVIS	25087	CIVIL
SHELDON D. KEISLING	13654	ELECTRICAL
MARIA H.C. MARTINEZ	24992	ELECTRICAL
TERRANCE M. SUPER	9250	ELECTRICAL

PLANS PREPARED FOR:

PLANS PREPARED BY:

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SUBMITTALS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	07/14/25	DSL	A
REISSUED PER FIBER RUN	09/09/25	AWD	B
ISSUED FOR CONSTRUCTION	04/10/26	AWD	0

APPLICANT SITE NAME:
US-KS-5112 RED BUD LAKE

MDG LOCATION ID:
TBD

SITE ADDRESS:
2200 BLOCK FAIR RD
ABILENE, KS 67410

SHEET DESCRIPTION: TOWER ELEVATION	SHEET #: ANT-1.0
---------------------------------------	---------------------

- NEW VZW UTILITY EASEMENT
- ACCESS/UTILITY EASEMENT
- VZW LANDSPACE
- PENETRATIONS
- RR/HBBU
- ANTENNAS
- FIBER
- POWER/ GROUNDING
- HYBRID & COAX CABLES

KEYED NOTES:

- 1 PROPOSED 3'-0"x2'-0"x2'-0" TRAFFIC RATED FIBER HANDHOLE
- 2 PROPOSED 3'-0"x2'-0"x2'-0" TRAFFIC RATED FIBER HANDHOLE (COVER SHALL BE STAMPED "VERIZON")
- 3 PROPOSED PAD MOUNTED UTILITY TRANSFORMER (BY UTILITY COMPANY)
- 4 PROPOSED 2" SCH40 CONDUIT W/ PULL ROPE FOR POWER FROM EXISTING UTILITY POLE AT RIGHT-OF-WAY TO PROPOSED PAD MOUNTED TRANSFORMER AT COMPOUND. (APPROX. LENGTH = 950'-0")

STAMP:

DocuSign by
Shelton Keisling

ENGINEERING LICENSE:
STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
CD	CHRISTOPHER GIANNOTTI 28673	CIVIL
PJD	PATRICK J. DAVIS 25087	CIVIL
SDK	SHELTON D. KEISLING 13654	ELECTRICAL
MHCM	MARIA H.C. MARTINEZ 24992	ELECTRICAL
TMS	TERRANCE M. SUPER 9250	ELECTRICAL

PLANS PREPARED FOR:

PLANS PREPARED BY:

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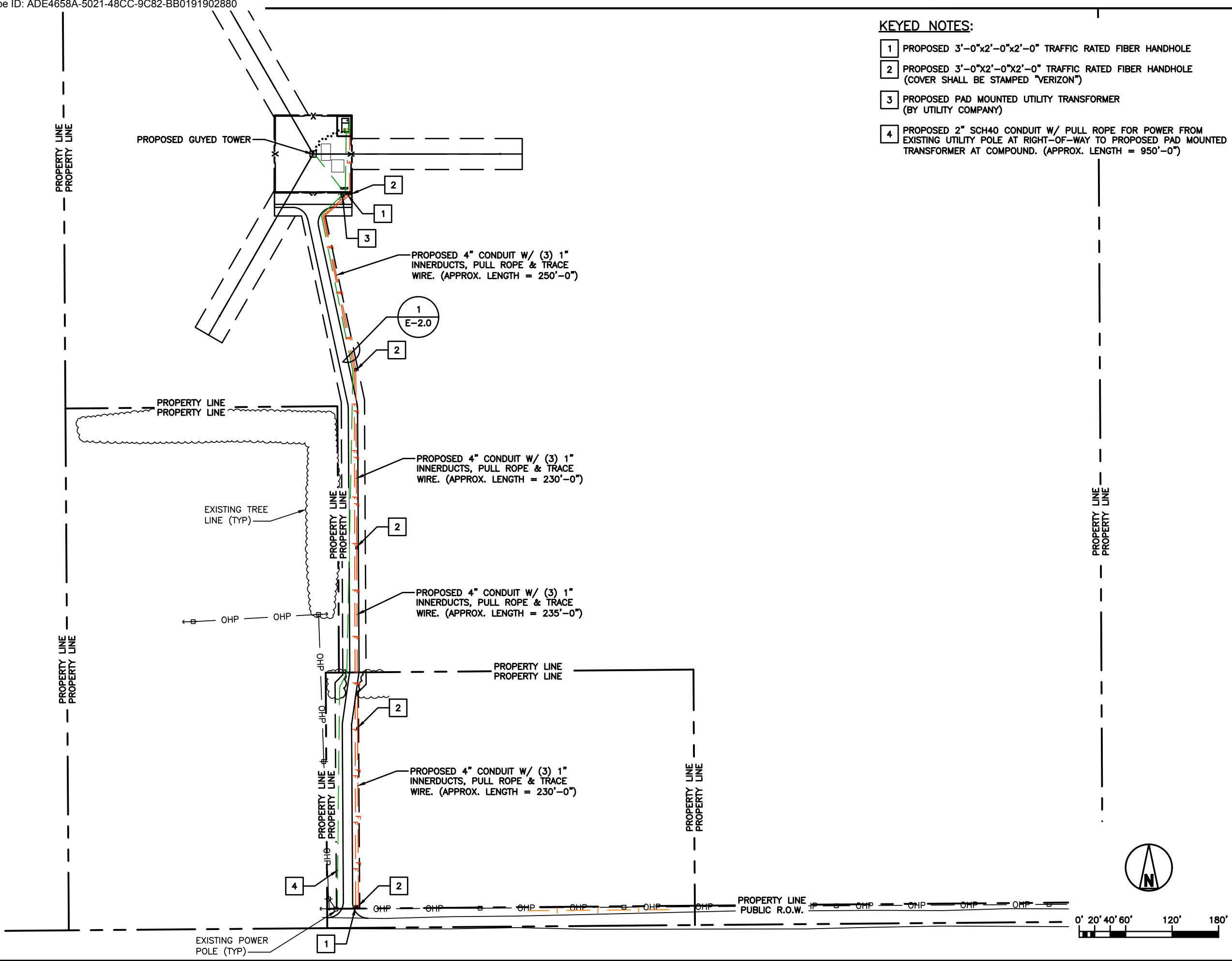
APPLICANT SITE NAME:
US-KS-5112 RED BUD LAKE

MDG LOCATION ID:
TBD

SITE ADDRESS:
**2200 BLOCK FAIR RD
ABILENE, KS 67410**

SHEET DESCRIPTION:
OVERALL UTILITY PLAN

SHEET #:
E-1.0



OVERALL UTILITY PLAN

SCALE: 1:60 (22"x34")
SCALE: 1:120 (11"x17")

KEYED NOTES:

- 1 SEE OVERALL UTILITY PLAN (SHEET E-1.0) FOR SIZES, LENGTHS & CONTINUATION OF UTILITIES.
- 2 PROPOSED 3'-0"x2'-0"x2'-0" TRAFFIC RATED FIBER HANDHOLE (COVER SHALL BE STAMPED "VERIZON")
- 3 PROPOSED 3'-0"x2'-0"x2'-0" TRAFFIC RATED FIBER HANDHOLE
- 4 PROPOSED PAD MOUNTED UTILITY TRANSFORMER (BY UTILITY COMPANY)
- 5 PROPOSED METER CENTER
- 6 PROPOSED 2-1/2" GRC CONDUIT W/ PULL ROPE FOR POWER FROM PAD MOUNTED TRANSFORMER TO METER CENTER ON UTILITY H-FRAME (APPROX. LENGTH = 15'-0")
- 7 PROPOSED 2" CONDUIT W/ PULL ROPE FOR POWER FROM METER CENTER TO ILC CONDUIT STUB UP (APPROX. LENGTH = 80'-0")
- 8 PROPOSED 2" CONDUIT W/ PULL ROPE AND TRACE WIRE FOR FIBER FROM TRAFFIC RATED FIBER HANDHOLE AT COMPOUND TO EQUIPMENT CABINET LOCATION ON PAD. (APPROX. LENGTH = 100'-0")
- 9 PROPOSED TOWER LIGHTING CONTROLLER
- 10 PROPOSED 2" CONDUIT FOR TOWER LIGHTING CABLE FROM TOWER LIGHTING CONTROLLER TO TOWER LEG (APPROX. LENGTH = 60'-0")

PROPOSED 9'-0"x17'-0" EQUIPMENT PAD FOR FUTURE VERIZON WIRELESS EQUIPMENT CABINETS & GENERATOR

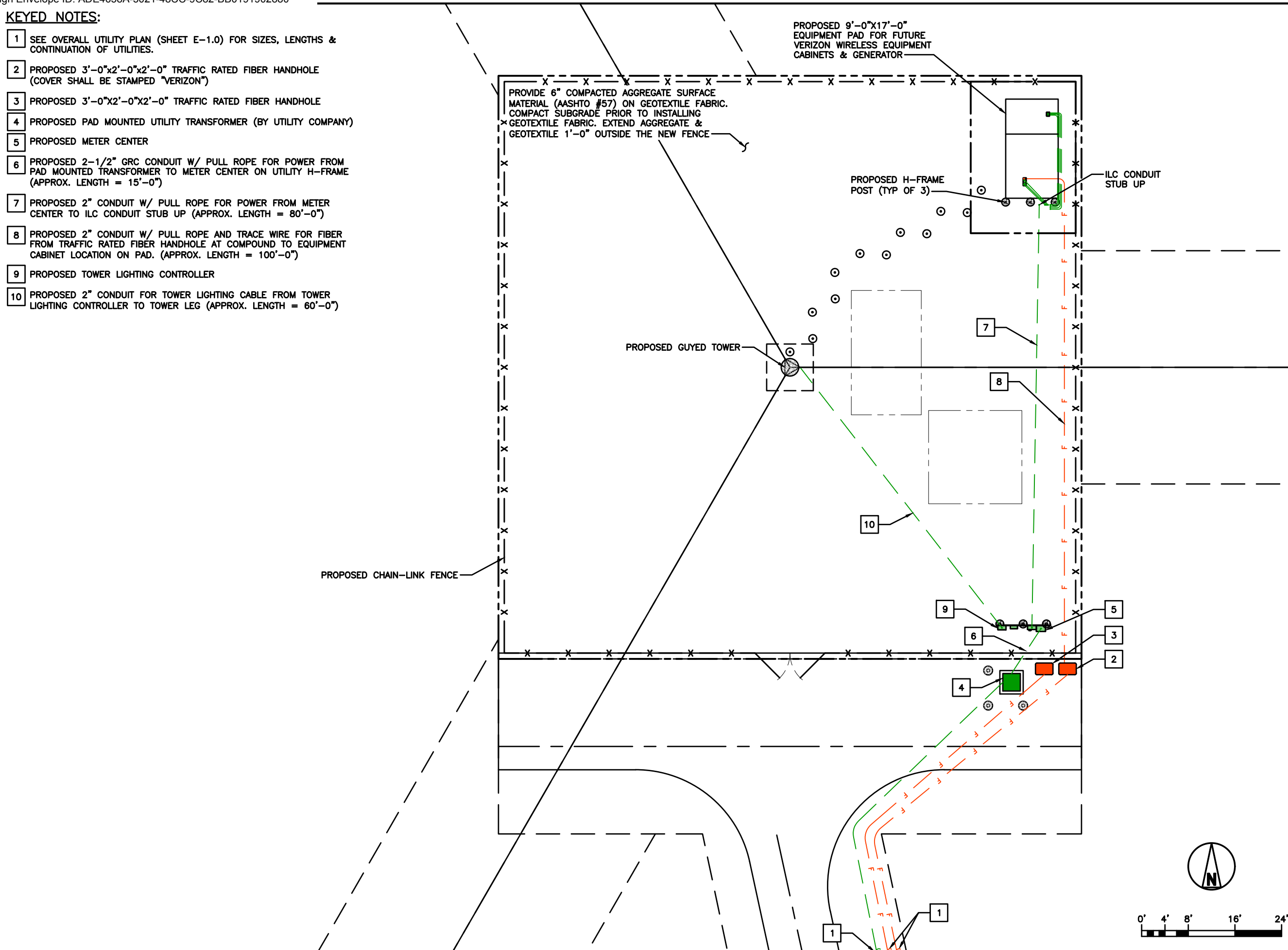
PROVIDE 6" COMPACTED AGGREGATE SURFACE MATERIAL (AASHTO #57) ON GEOTEXTILE FABRIC. COMPACT SUBGRADE PRIOR TO INSTALLING GEOTEXTILE FABRIC. EXTEND AGGREGATE & GEOTEXTILE 1'-0" OUTSIDE THE NEW FENCE

PROPOSED CHAIN-LINK FENCE

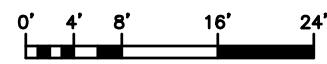
PROPOSED GUYED TOWER

PROPOSED H-FRAME POST (TYP OF 3)

ILC CONDUIT STUB UP



ENLARGED UTILITY PLAN



1/8" = 1'-0" (22"x34")
1/16" = 1'-0" (11"x17")

STAMP: 04/10/2026

DocuSign by: Shelton Keisling

ENGINEERING LICENSE: STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
CC PJD CHRISTOPHER GIANNOTTI 29623	29623	CIVIL
CC PJD PATRICK J. DAVIS 25087	25087	CIVIL
SDK SHELTON D. KEISLING 13654	13654	ELECTRICAL
MHCM MARIA H.C. MARTINEZ 24992	24992	ELECTRICAL
TMS TERRANCE M. SUPER 9250	9250	ELECTRICAL

PLANS PREPARED FOR:



PLANS PREPARED BY:



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REISSUED PER FIBER RUN	09/09/25	AWD	B
ISSUED FOR CONSTRUCTION	04/10/26	AWD	0

APPLICANT SITE NAME:
US-KS-5112 RED BUD LAKE

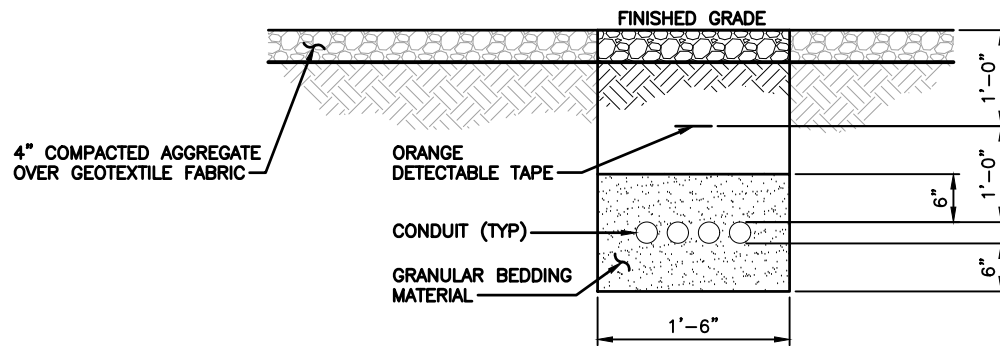
MDG LOCATION ID:
TBD

SITE ADDRESS:
2200 BLOCK FAIR RD
ABILENE, KS 67410

SHEET DESCRIPTION: ENLARGED UTILITY PLAN	SHEET #: E-1.1
---	-------------------

NOTES:

1. SEE SHEET E-1.1 FOR ORIENTATION & CONTINUATION OF CONDUITS.
2. TRENCH, INSTALL CONDUITS & COMPACT SOIL PRIOR TO CONSTRUCTING CONCRETE EQUIPMENT PAD.
3. DO NOT OVER EXCAVATE TRENCHES. KEEP WIDTH TO A MINIMUM.
4. BACKFILL BY PLACING, AND COMPACTING, SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL. THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4" IN LOOSE DEPTH, & COMPACTED WITH HAND OPERATED COMPACTORS.
5. COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.
6. ALL CONDUITS ARE 2" PVC, UNLESS NOTED OTHERWISE.
7. CONTRACTOR SHALL INSTALL SLIP JOINTS ON ALL CONDUITS AS REQUIRED. (SEE SHEET E-2.2, DETAIL 3).
8. TRACE WIRE SHALL BE INSTALLED IN TRENCH WITH THE FIBER CONDUIT.

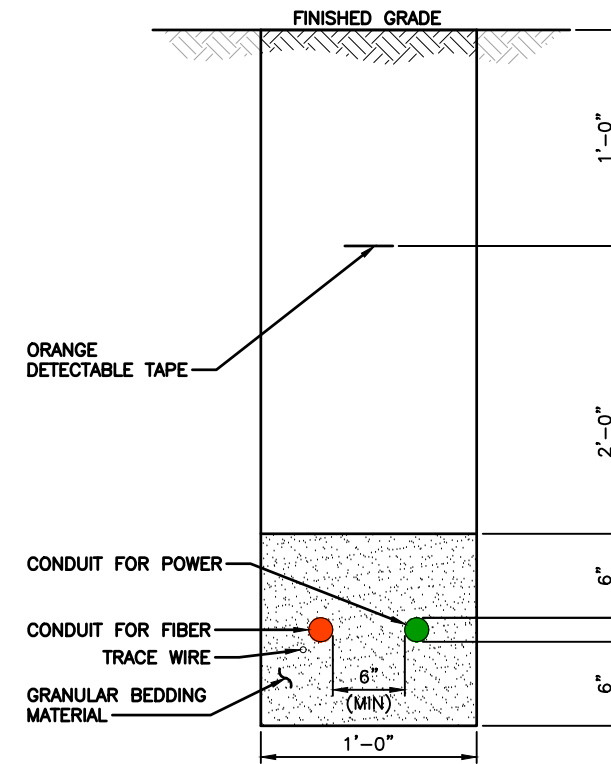


TRENCH DETAIL (SITE)

3

NOTES:

1. SEE SHEET E-1.0 FOR SIZES, LENGTHS & QUANTITY OF UTILITIES.
2. COMMUNICATION AND POWER CONDUITS MAY BE RUN IN SEPARATE TRENCHES. CONDUITS SHALL MAINTAIN 6" MINIMUM SEPARATION.
3. TRACE WIRE SHALL BE INSTALLED IN TRENCH WITH THE FIBER CONDUIT.

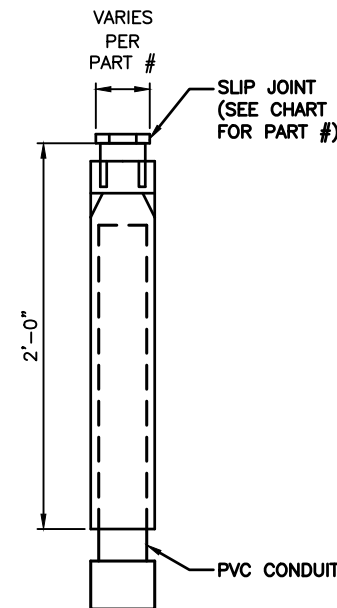


TRENCH DETAIL (INCOMING)

1

NOTE:

CONTRACTOR SHALL FURNISH & INSTALL SLIP JOINTS ON ALL CONDUITS THAT EXIT GRADE AS REQUIRED.



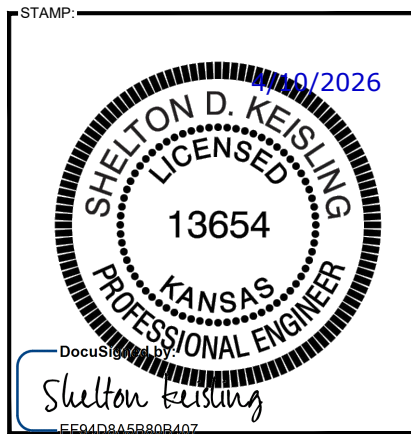
CARLON EXPANSION FITTINGS				
COUPLING END PART #	MALE TERMINAL ADAPTER END PART #	SIZE	STD. CTN. QTY.	TRAVEL LENGTH
E945D	E945DX	1/2"	20	4"
E945E	E945EX	3/4"	15	4"
E945F	E945FX	1"	10	4"
E945G	E945GX	1 1/4"	5	4"
E945H	E945HX	1 1/2"	5	4"
E945J	E945JX	2"	15	8"
E945K	E945KX	2 1/2"	10	8"
E945L	E945LX	3"	10	8"
E945M	E945MX	3 1/2"	5	8"
E945N	E945NX	4"	5	8"
E945P	E945PX	5"	1	8"
E945R	E945RX	6"	1	8"

DETAIL NOT USED

4

SLIP JOINT DETAIL

2



DocuSign by: Shelton Keisling

ENGINEERING LICENSE: # E-571

ENGINEER:	PE#:	DISCIPLINE:
CC CHRISTOPHER GIANNOTTI	28673	CIVIL
PJD PATRICK J. DAVIS	25097	CIVIL
SDK SHELTON D. KEISLING	13654	ELECTRICAL
MHCM MARIA H.C. MARTINEZ	24992	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL



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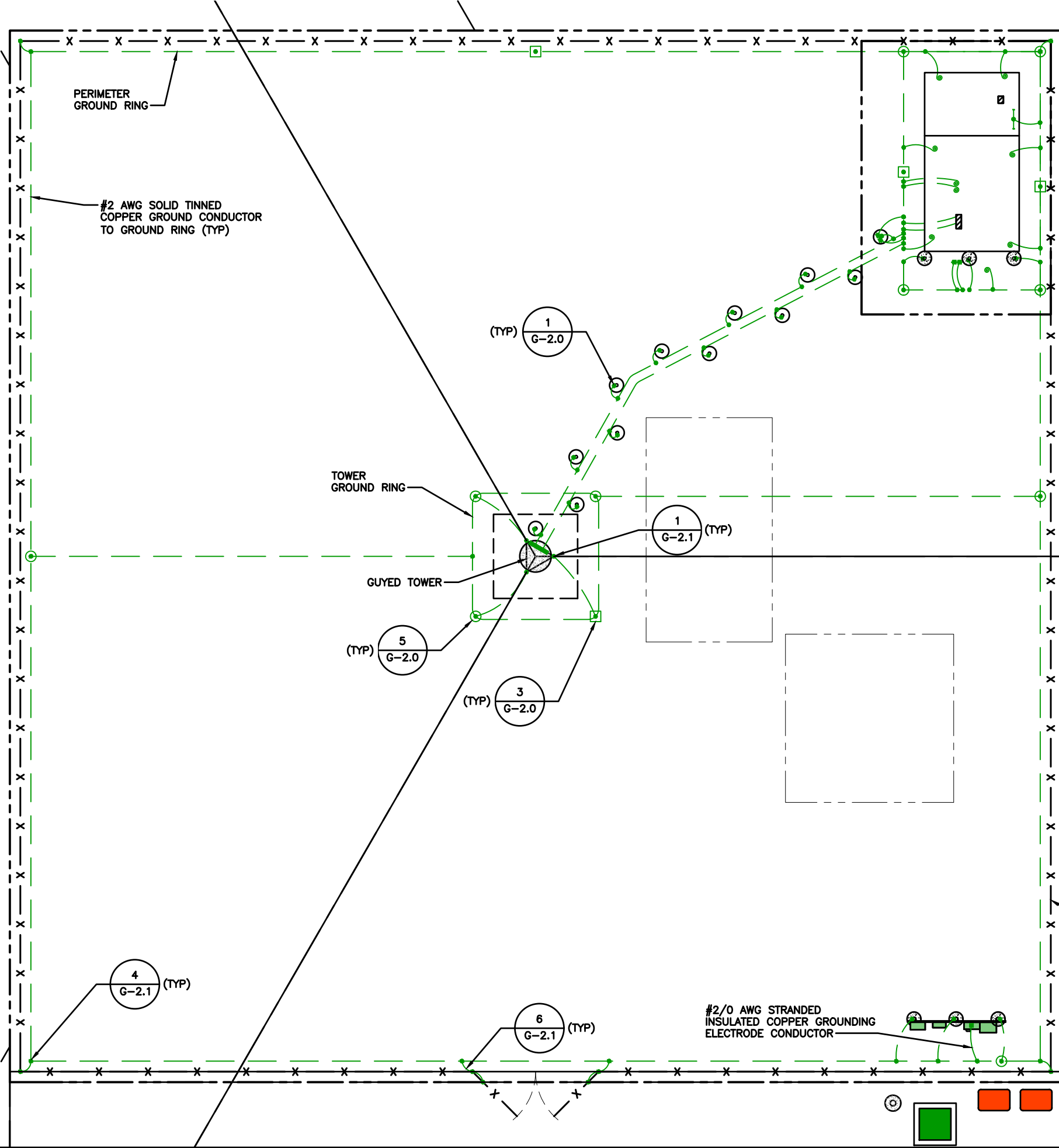
APPLICANT SITE NAME:
US-KS-5112 RED BUD LAKE

MDG LOCATION ID:
TBD

SITE ADDRESS:
2200 BLOCK FAIR RD
ABILENE, KS 67410

SHEET DESCRIPTION:	SHEET #:
UTILITY DETAILS	E-2.0

- NEW VZM UTILITY EASEMENT
- ACCESS/UTILITY EASEMENT
- VZM LANDSPACE
- PENETRATIONS
- RR/HIBBU
- ANTENNAS
- FIBER
- POWER/ GROUNDING
- HYBRID & COAX CABLES



KEYED NOTES:

1 FENCE POSTS WITHIN 6'-0" OF A GROUNDED STRUCTURE OR GROUNDED EQUIPMENT SHALL BE BONDED TO THE GROUND RING.

NOTE:

SEE SHEET GN-1.0 FOR LEGEND.

STAMP:

DocuSign by: *Shelton Keisling*

ENGINEERING LICENSE:
STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
DO CHRISTOPHER GIANNOTTI 28673	28673	CIVIL
PJD PATRICK J. DAVIS 25087	25087	CIVIL
SDK SHELTON D. KEISLING 13654	13654	ELECTRICAL
MHCM MARIA H.C. MARTINEZ 24992	24992	ELECTRICAL
TMS TERRANCE M. SUPER 9250	9250	ELECTRICAL

PLANS PREPARED FOR:

PLANS PREPARED BY:

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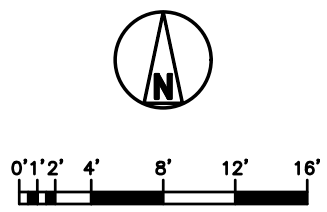
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REISSUED PER FIBER RUN	09/09/25	AWD	B
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APPLICANT SITE NAME:
US-KS-5112 RED BUD LAKE

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TBD

SITE ADDRESS:
**2200 BLOCK FAIR RD
ABILENE, KS 67410**

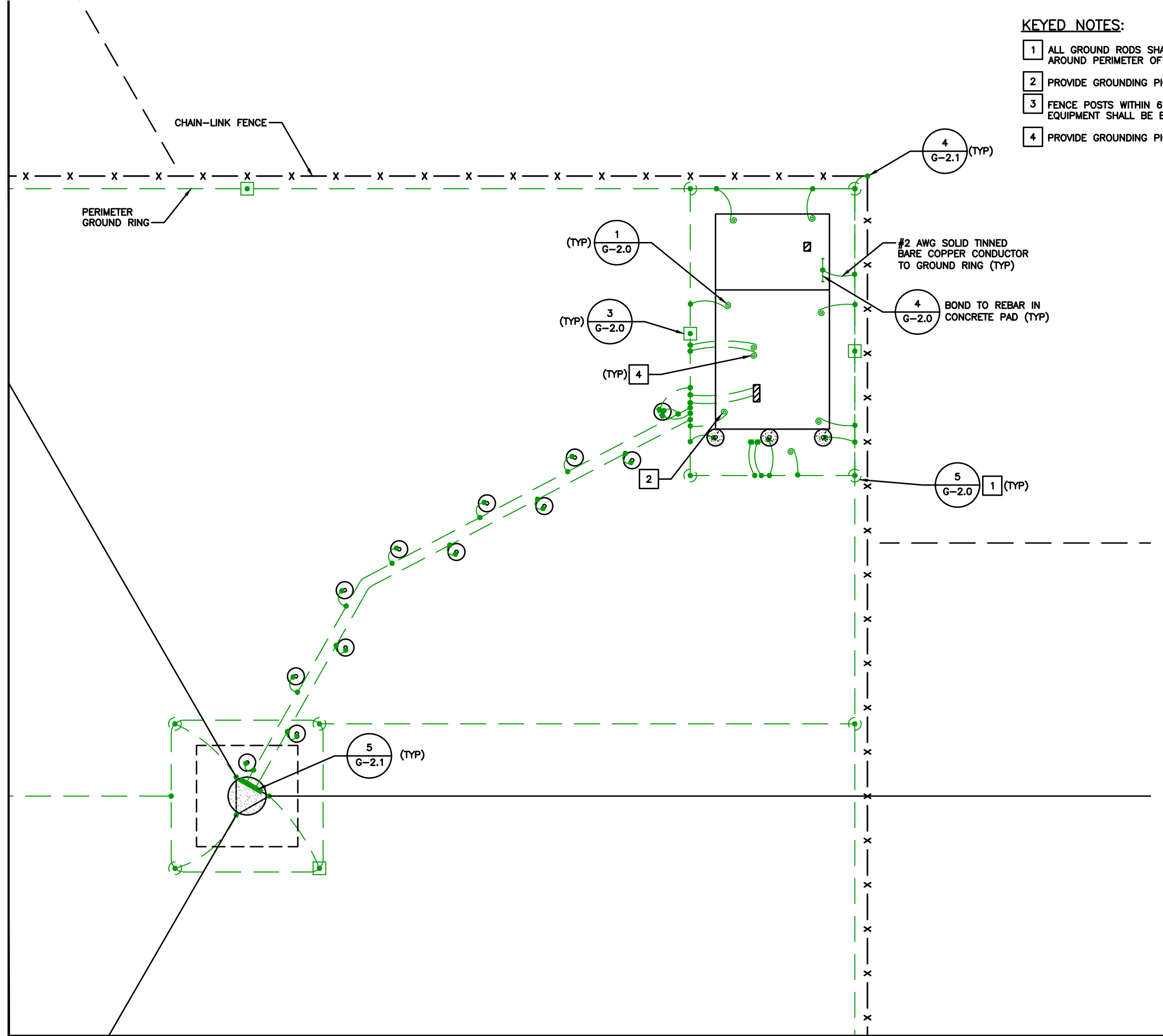
SHEET DESCRIPTION: COMPOUND GROUNDING PLAN	SHEET #: G-1.0
--	--------------------------



COMPOUND GROUNDING PLAN

3/16" = 1'-0" (22"x34")
3/32" = 1'-0" (11"x17")

- NEW VZW UTILITY EASEMENT
- ACCESS/UTILITY EASEMENT
- VZW LANDSPACE
- PENETRATIONS
- RR/HIBBU
- ANTENNAS
- FIBER
- POWER/ GROUNDING
- HYBRID & COAX CABLES



KEYED NOTES:

- 1 ALL GROUND RODS SHALL BE SPACED AT 8'-0" (MIN) TO 15'-0" (MAX) AROUND PERIMETER OF EQUIPMENT.
- 2 PROVIDE GROUNDING PIGTAIL FOR GPS ANTENNAS (LENGTH = ±15'-0").
- 3 FENCE POSTS WITHIN 6'-0" OF A GROUNDED STRUCTURE OR GROUNDED EQUIPMENT SHALL BE BONDED TO THE GROUND RING.
- 4 PROVIDE GROUNDING PIGTAIL FOR VZW EQUIPMENT (LENGTH = ±15'-0")

NOTE:
SEE SHEET GN-1.0 FOR LEGEND.

STAMP: 07/10/2026

DocuSign by: Shelton Keisling

ENGINEERING LICENSE:

STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
CO CHRISTOPHER GIANNOTTI 28673	28673	CIVIL
PJD PATRICK J. DAVIS 25087	25087	CIVIL
SDK SHELTON D. KEISLING 13654	13654	ELECTRICAL
MHCM MARIA H.C. MARTINEZ 24992	24992	ELECTRICAL
TMS TERRANCE M. SUPER 9250	9250	ELECTRICAL

PLANS PREPARED FOR:

PLANS PREPARED BY:

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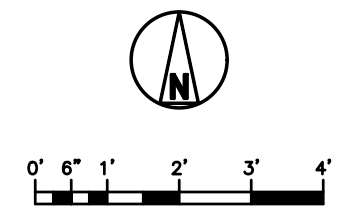
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MDG LOCATION ID:
TBD

SITE ADDRESS:
**2200 BLOCK FAIR RD
ABILENE, KS 67410**

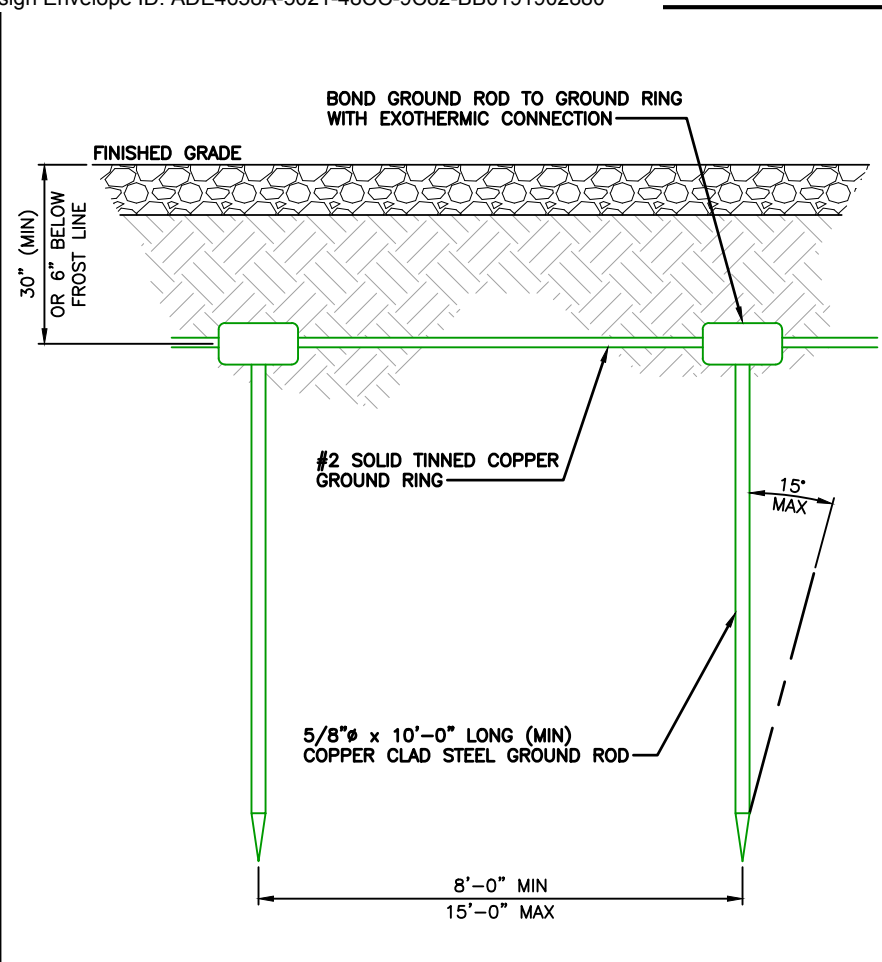
SHEET DESCRIPTION: ENLARGED GROUNDING PLAN	SHEET #: G-1.1
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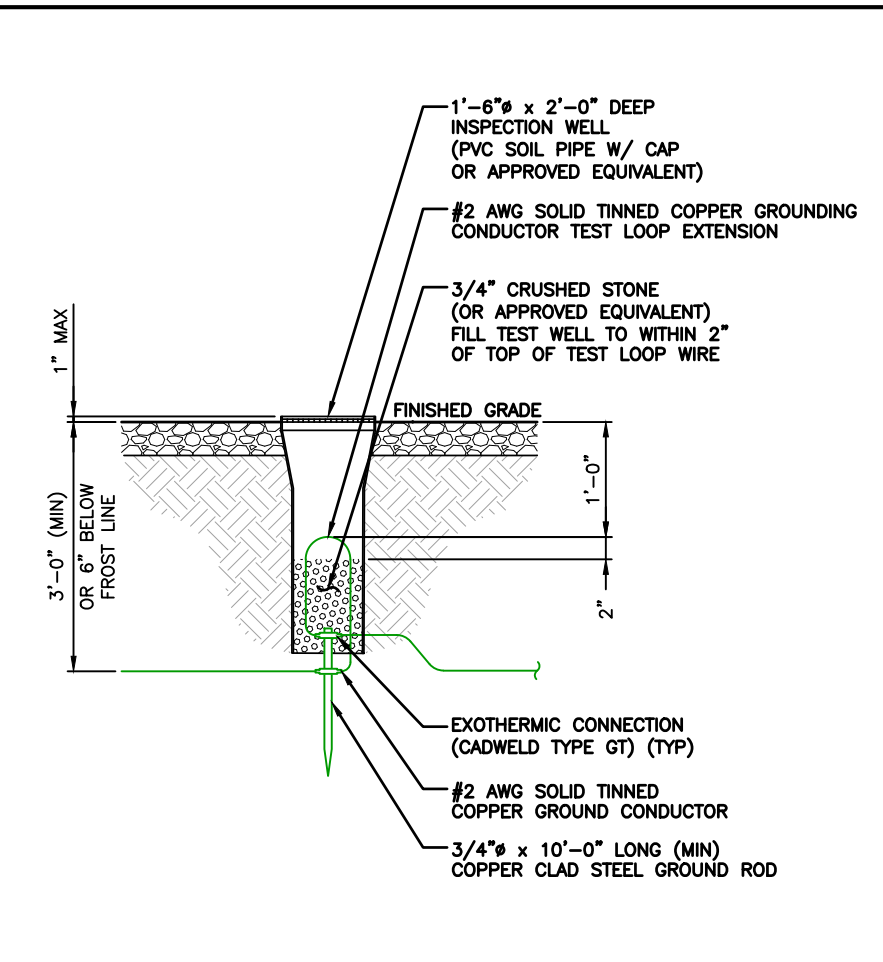
ENLARGED GROUNDING PLAN

3/4" = 1'-0" (22"x34")
3/8" = 1'-0" (11"x17") 1

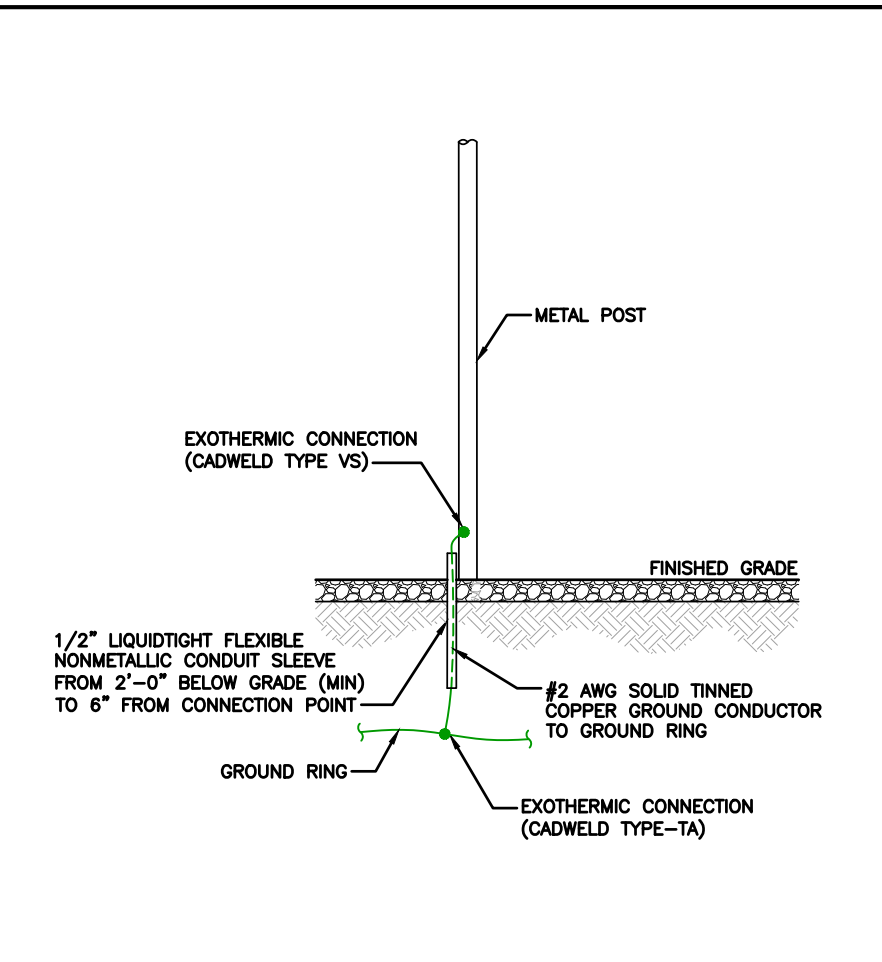
NEW VZW UTILITY EASEMENT
 ACCESS/UTILITY EASEMENT
 VZW LANDSPACE
 PENETRATIONS
 RR/HBBU
 ANTENNAS
 FIBER
 POWER/ GROUNDING
 HYBRID & COAX CABLES



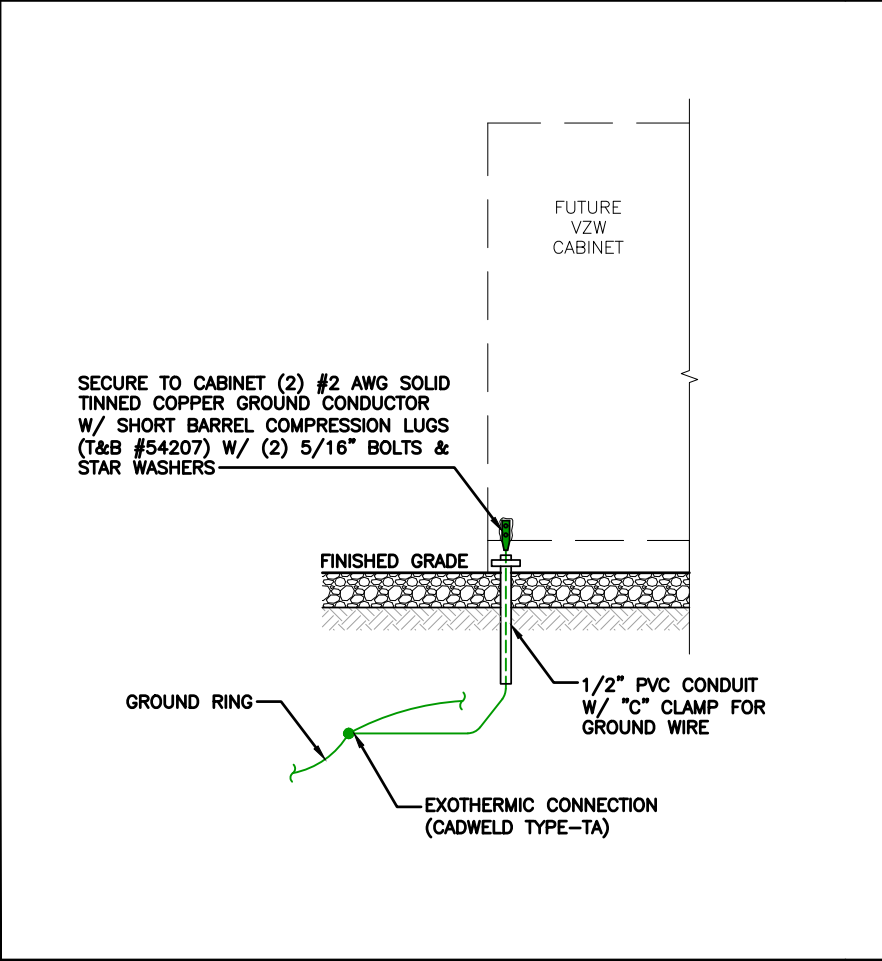
GROUND RING DETAIL 5



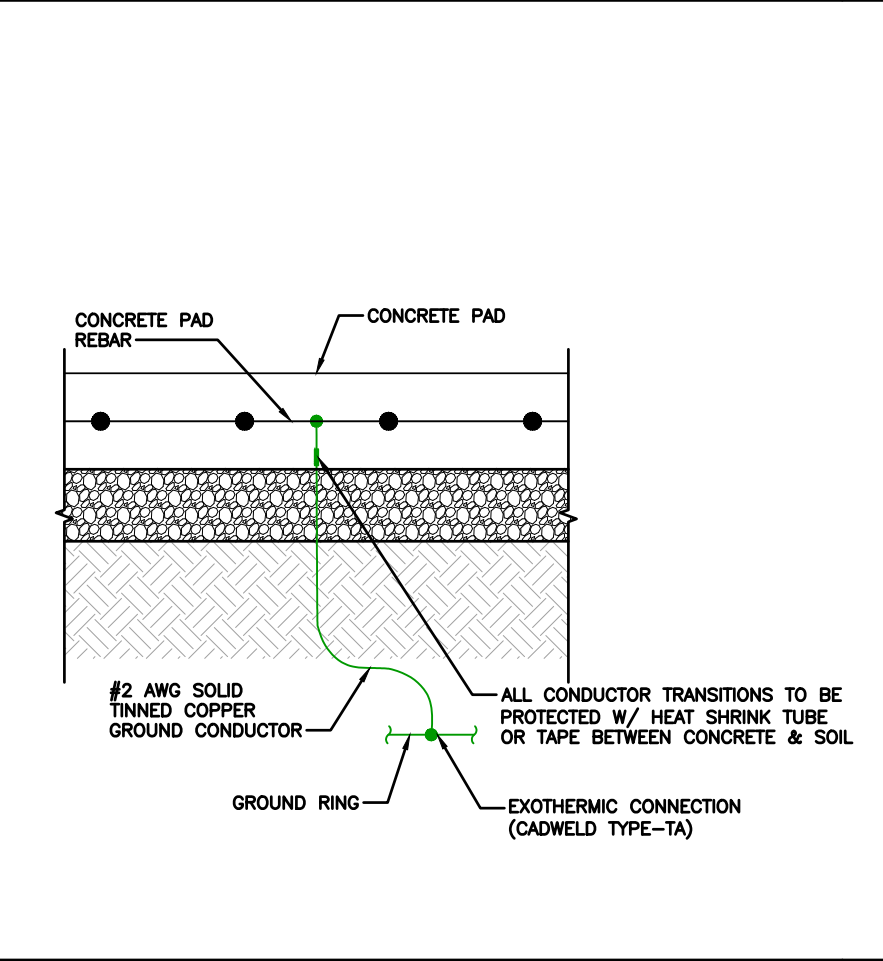
INSPECTION/TEST WELL DETAIL 3



POST GROUNDING DETAIL 1





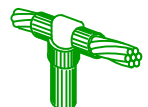








CABINET GROUNDING DETAIL 6




CONCRETE PAD GROUNDING DETAIL 4

NOTE:
 ALL TYPE CLASSIFICATIONS ARE CADWELD.

		
<u>TYPE SS</u>	<u>TYPE TA</u>	<u>TYPE HS</u>
		
<u>TYPE PT</u>	<u>TYPE GT</u>	<u>TYPE HA</u>
		
<u>TYPE GR</u>	<u>TYPE XA</u>	<u>TYPE HA</u>
		
	<u>TYPE GL LUG</u>	<u>TYPE VS</u>

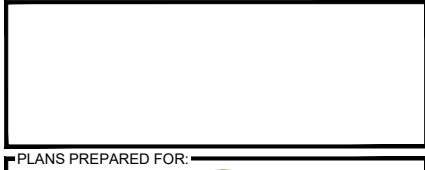
EXOTHERMIC CONNECTION DETAILS 2

STAMP: 07/10/2026

 DocuSign by
 Shelton Keisling
 EE04D8A5B80B407

ENGINEERING LICENSE:
 STATE OF KANSAS
 PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
CO: CHRISTOPHER GIANNOTTI 28673	28673	CIVIL
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MHCM: MARIA H.C. MARTINEZ 24992	24992	ELECTRICAL
TMS: TERRANCE M. SUPER 9250	9250	ELECTRICAL

PLANS PREPARED FOR:



PLANS PREPARED BY:


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ISSUED FOR CONSTRUCTION	04/10/26	AWD	0

APPLICANT SITE NAME:
 US-KS-5112 RED BUD LAKE

MDG LOCATION ID:
 TBD

SITE ADDRESS:
 2200 BLOCK FAIR RD
 ABILENE, KS 67410

SHEET DESCRIPTION: GROUNDING DETAILS (1 OF 2)	SHEET #: G-2.0
--	-------------------

NEW/7W
UTILITY
EASEMENT

ACCESS/UTILITY
EASEMENT

VZM LANDSPACE

PENETRATIONS

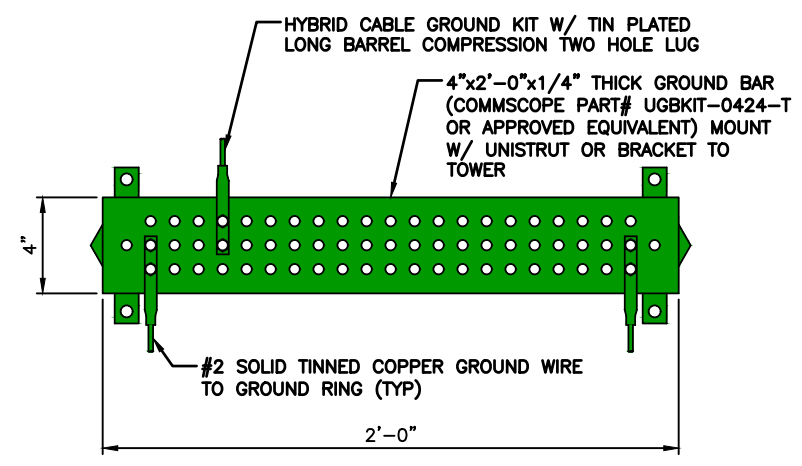
RR/HBBU

ANTENNAS

FIBER

POWER/
GROUNDING

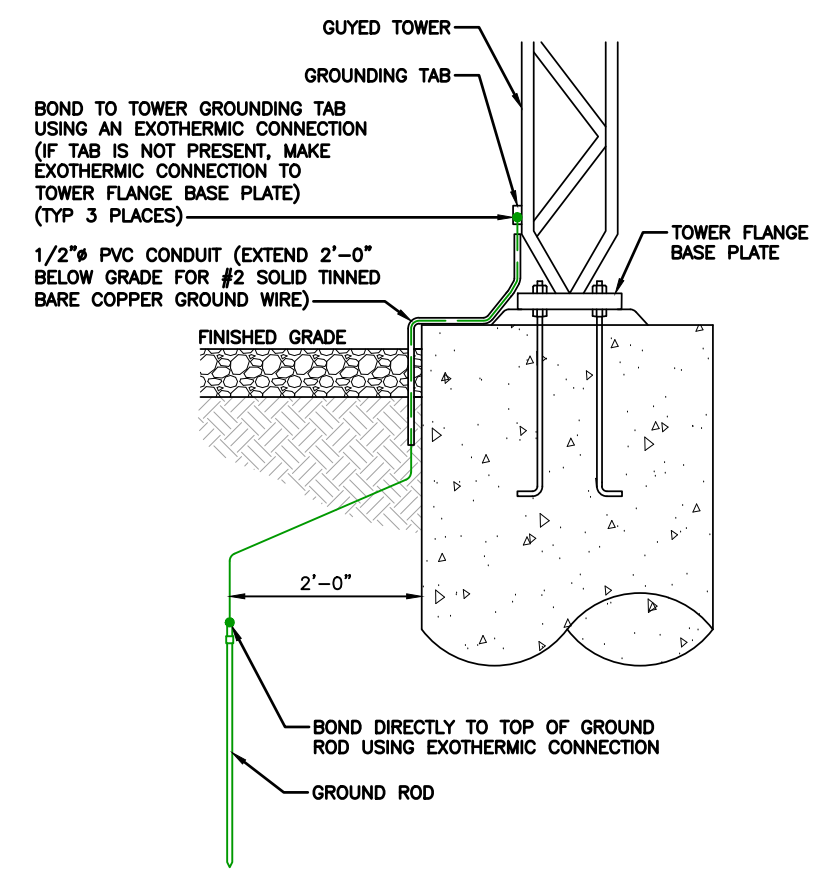
HYBRID &
COAX CABLES



- NOTES:**
1. ALL HARDWARE SHALL BE 18-8 STAINLESS STEEL INCLUDING BELLEVILLE WASHERS, COAT ALL SURFACES WITH KOPR-SHIELD BEFORE MATING.
 2. STEEL BONDING ONLY: INSERT A TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH KOPR-SHIELD.
 3. USE A THIN COAT OF ANTI-CORROSION GREASE AT THESE CONNECTIONS.
 4. INSTALL WITHIN 12" OF END OF COAX TO COAX JUMPER CONNECTION.
 5. DIMPLE OR MECHANICAL CRIMP LUGS WILL NOT BE PERMITTED.

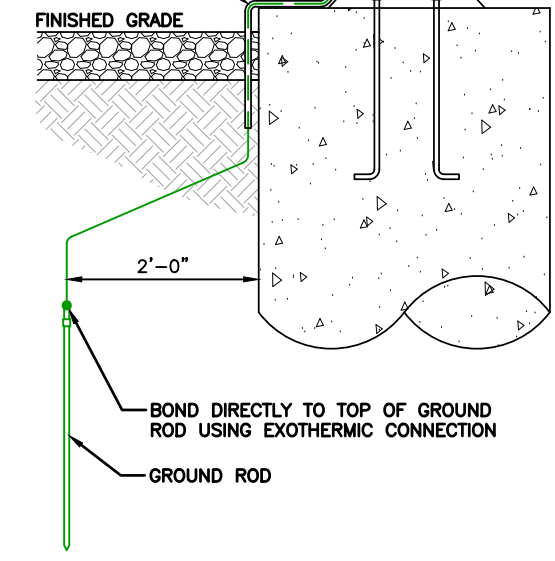
TOWER/TYPICAL GROUND BAR DETAIL

5



BOND TO TOWER GROUNDING TAB USING AN EXOTHERMIC CONNECTION (IF TAB IS NOT PRESENT, MAKE EXOTHERMIC CONNECTION TO TOWER FLANGE BASE PLATE) (TYP 3 PLACES)

1/2" PVC CONDUIT (EXTEND 2'-0" BELOW GRADE FOR #2 SOLID TINNED BARE COPPER GROUND WIRE)



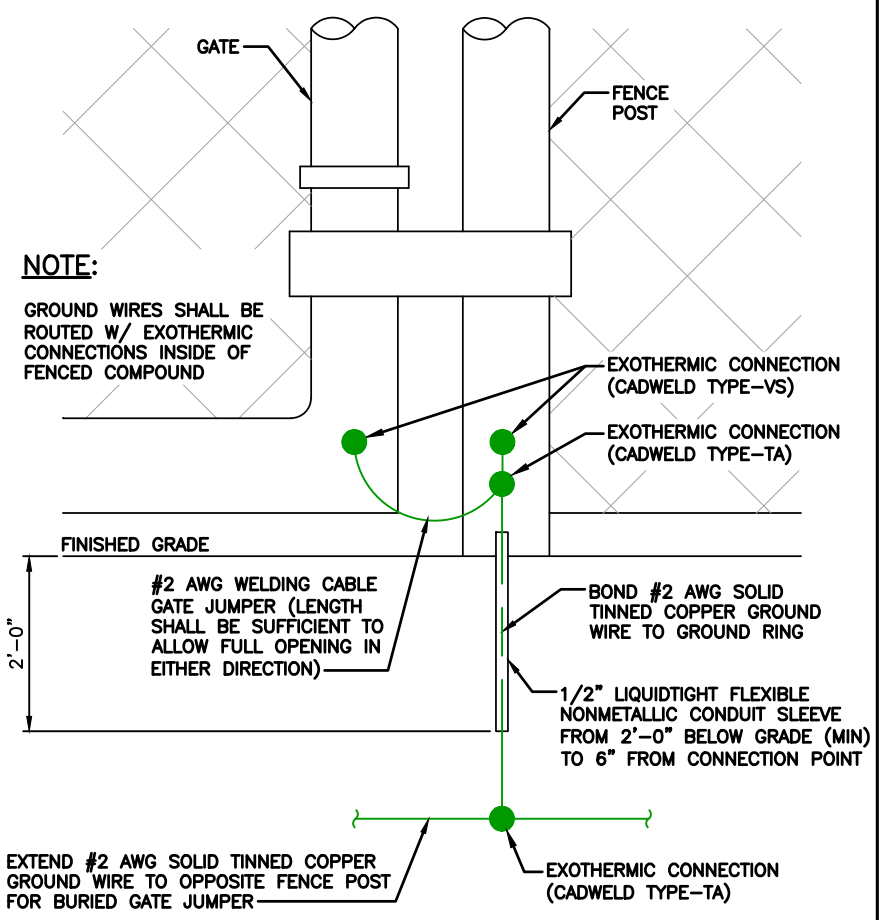
BOND DIRECTLY TO TOP OF GROUND ROD USING EXOTHERMIC CONNECTION

TOWER GROUNDING DETAIL

1

DETAIL NOT USED

3



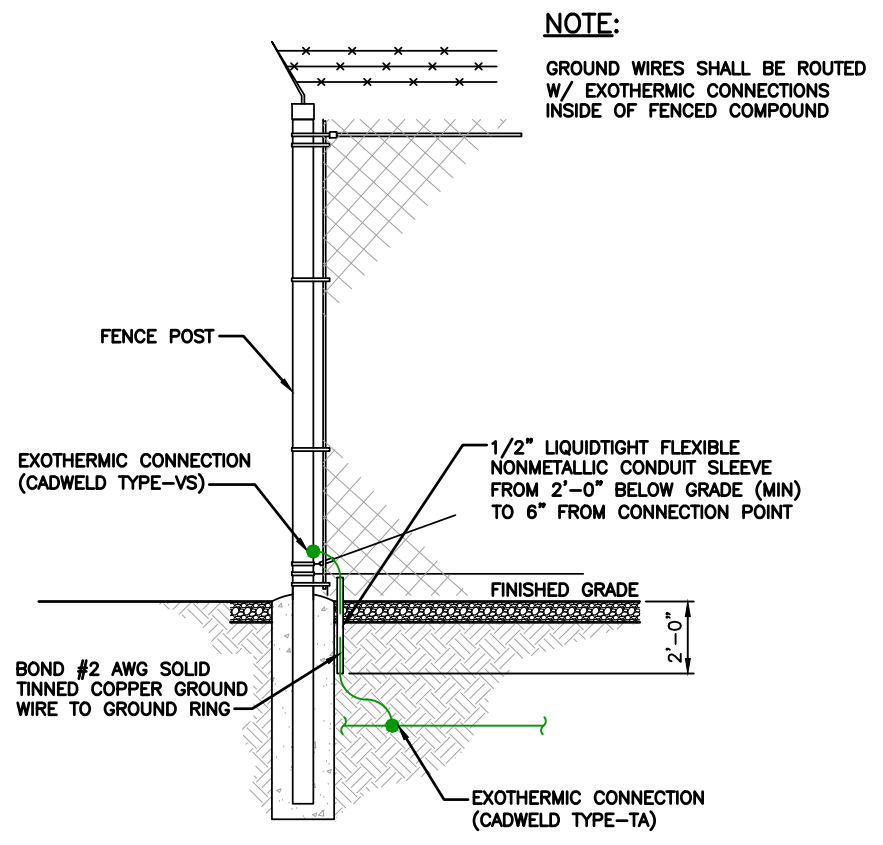
NOTE:
GROUND WIRES SHALL BE ROUTED W/ EXOTHERMIC CONNECTIONS INSIDE OF FENCED COMPOUND

#2 AWG WELDING CABLE GATE JUMPER (LENGTH SHALL BE SUFFICIENT TO ALLOW FULL OPENING IN EITHER DIRECTION)

EXTEND #2 AWG SOLID TINNED COPPER GROUND WIRE TO OPPOSITE FENCE POST FOR BURIED GATE JUMPER

FENCE GATE GROUNDING DETAIL

6



NOTE:
GROUND WIRES SHALL BE ROUTED W/ EXOTHERMIC CONNECTIONS INSIDE OF FENCED COMPOUND

1/2" LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT SLEEVE FROM 2'-0" BELOW GRADE (MIN) TO 6" FROM CONNECTION POINT

BOND #2 AWG SOLID TINNED COPPER GROUND WIRE TO GROUND RING

EXOTHERMIC CONNECTION (CADWELD TYPE-TA)

FENCE POST GROUNDING DETAIL

4

DETAIL NOT USED

2

STAMP: 07/10/2026

DocuSign by Shelton Keisling

ENGINEERING LICENSE: STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
CG CHRISTOPHER GIANNOTTI	28673	CIVIL
PJD PATRICK J. DAVIS	25097	CIVIL
SDK SHELTON D. KEISLING	13654	ELECTRICAL
MHCM MARIA H.C. MARTINEZ	24992	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

PLANS PREPARED FOR:



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DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	07/14/25	DSL	A
REISSUED PER FIBER RUN	09/09/25	AWD	B
ISSUED FOR CONSTRUCTION	04/10/26	AWD	0

APPLICANT SITE NAME:
US-KS-5112 RED BUD LAKE

MDG LOCATION ID:
TBD

SITE ADDRESS:
2200 BLOCK FAIR RD
ABILENE, KS 67410

SHEET DESCRIPTION: GROUNDING DETAILS (2 OF 2)	SHEET #: G-2.1
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GENERAL NOTES

1. THE CONTRACTOR SHALL SUPERVISE AND DIRECT ALL WORK USING THEIR BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
2. THE CONTRACTOR SHALL VISIT THE JOB SITE TO REVIEW THE SCOPE OF WORK AND EXISTING CONDITIONS INCLUDING, BUT NOT LIMITED TO, ELECTRICAL SERVICE AND OVERALL COORDINATION.
3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING THEIR BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS, ETC. SHALL BE REPORTED TO VERTICAL BRIDGE BEFORE PROCEEDING WITH THE WORK.
4. THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING CONSTRUCTION, STRUCTURE, OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF VERTICAL BRIDGE, AT THE EXPENSE OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL SAFEGUARD THE OWNER'S PROPERTY DURING CONSTRUCTION AND SHALL REPLACE ANY DAMAGED PROPERTY OF THE OWNER TO ORIGINAL CONDITION.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETE.
8. ALL CONSTRUCTION WORK SHALL CONFORM TO THE CODES LISTED IN THE CODE SUMMARY AND ALL APPLICABLE LOCAL REGULATIONS, ORDINANCES, STATUTES & CODES.
9. VERTICAL BRIDGE SHALL OBTAIN THE CONSTRUCTION PERMIT. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ADDITIONAL PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK TO THE OWNER.
10. CITY APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKERS. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF JOB SUPERINTENDENT.
11. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A:10-B:C WITHIN 75'-0" OF TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILD OUT AREA DURING CONSTRUCTION.
12. ANY CONNECTION FEES FOR ELECTRICAL SERVICE SHALL BE PAID BY THE CONTRACTOR.
13. CABLING NOTE: FOLLOW HYBRIFLEX MANUFACTURER'S RECOMMENDATIONS FOR HOISTING CABLE. VERTICAL BRIDGE HAS REPORTED THAT HOIST GRIPS MUST BE USED EVERY 200'-0" OF CABLE.

DESCRIPTION OF PROPOSED SITE USE:

THE CONSTRUCTION OF THIS COMMUNICATION TOWER SITE IS FOR THE TRANSMISSION AND RECEPTION OF CALLS FOR A NEW WIRELESS TELEPHONE SYSTEM. NO FLAMMABLE PRODUCTS OR CHEMICALS WILL BE USED OR STORED INSIDE THE SHELTER.

FOUNDATION GENERAL NOTES:

1. THE SITE SHALL BE STRIPPED OF ALL VEGETATION PRIOR TO FILL OR CONSTRUCTION OF THE FOUNDATION PAD.
2. ALL FILL SAND SHALL BE 0-15 P.I. WITH A COMPACTION TEST RUN ON EACH 6" LIFT - COMPACTED TO 90% MODIFIED PROCTOR.
3. ANY SOFT AREAS (TREE STUMP HOLES, ETC.) SHALL BE CUT OUT AND RECOMPACTED TO SAID PROCTOR.
4. ALL FOOTINGS TO BEAR ON A MINIMUM NET ALLOWABLE SOIL BEARING CAPACITY OF 1,500 PSF TO BE VERIFIED IN FIELD.
5. THE CONTRACTOR SHALL KEEP THE SITE SO IT WILL HAVE POSITIVE DRAINAGE AT ALL TIMES.
6. ALL EXCAVATIONS SHALL BE FREE OF WATER BEFORE POURING CONCRETE.

CONCRETE NOTES:

1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 AND ACI 301, LATEST EDITION. THESE DOCUMENTS SHALL BE AVAILABLE IN THE FIELD OFFICE.
2. EXCEPT WHERE OTHERWISE INDICATED, CONCRETE SHALL BE NORMAL WEIGHT AND WITH MINIMUM 28-DAY COMPRESSIVE STRENGTHS OF $F'c=4000$ PSI. ALL EXTERIOR EXPOSED CONCRETE SHALL BE AIR ENTRAINED WITH 6% AIR CONTENT.
3. MAXIMUM SLUMP SHALL BE 4".
4. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
5. ALL WIRE AND BARS SHALL BE SECURED PROPERLY BEFORE POURING CONCRETE.
6. EDGE TROWEL ALL EXPOSED CONCRETE EDGES.

NOTE:

LOCALIZED AREAS OF SOFT OR LOOSE MATERIALS MAY BE ENCOUNTERED AT THE PROPOSED BEARING ELEVATION. THE SOILS MAY REQUIRE COMPACTION USING A PLATE COMPACTOR IN THE FOOTING TRENCH IF FIELD CONDITIONS INDICATE LOOSE GRANULAR SOILS. THE SOILS MAY REQUIRE REMOVAL AND REPLACEMENT WITH AN APPROVED ENGINEERED FILL. FOUNDATION DEPTH AND OVER DIG REQUIREMENTS SHALL BE VERIFIED WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND INCLUDED IN THE BID BEFORE CONSTRUCTION. THE EVALUATION OF THE SUB GRADE AND SELECTION OF FILL MATERIALS SHALL BE MONITORED AND TESTED BY A QUALIFIED REPRESENTATIVE OF THE SOILS ENGINEER.

CODE SUMMARY

CODE CLASSIFICATION	
CODE CLASSIFICATION	U
TYPE OF CONSTRUCTION:	V-B

APPLICABLE CODES

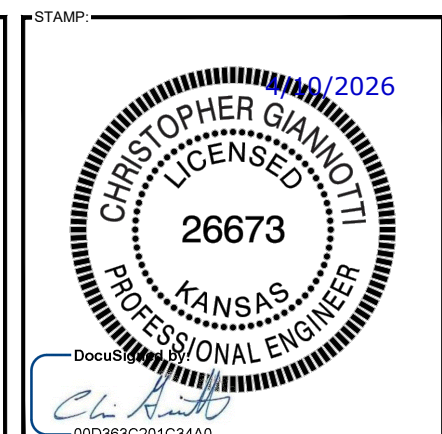
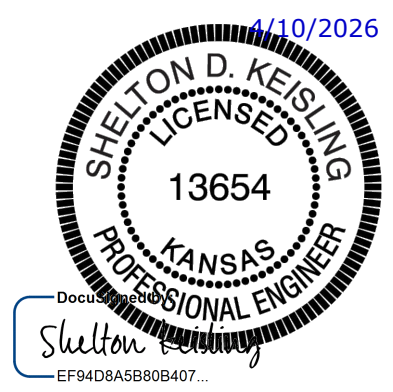
INTERNATIONAL BUILDING CODE
NATIONAL ELECTRICAL CODE (NFPA 70)
UNIFORM PLUMBING CODE
INTERNATIONAL FUEL GAS CODE

ABBREVIATIONS

AGL	ABOVE GRADE LINE	GND	GROUND
AMP	AMPERE	HT	HEIGHT
ARCH	ARCHITECT	LF	LINEAL FOOT
BLDG	BUILDING	MIN/MAX	MINIMUM/MAXIMUM
CL	CENTERLINE	MISC	MISCELLANEOUS
CONC	CONCRETE	NTS	NOT TO SCALE
CONST	CONSTRUCTION	O.C.	ON CENTER
CONTR	CONTRACTOR	PL	PLATE
DET	DETAIL	REQ'D	REQUIRED
DIA (Ø)	DIAMETER	SF	SQUARE FOOT
DIAG	DIAGONAL	SHT	SHEET
DIM	DIMENSION	SIM	SIMILAR
DN	DOWN	SPECS	SPECIFICATIONS
DWG	DRAWING	SSC, INC.	SELECTIVE SITE CONSULTANTS, INC.
EA	EACH	STD	STANDARD
ELEC	ELECTRICAL	STL	STEEL
ELEV	ELEVATOR, ELEVATION	STRUCT	STRUCTURAL
EQ	EQUAL	SW	SWITCH
EQUIP	EQUIPMENT	T.O.C.	TOP OF CONCRETE
EXIST	EXISTING	T.C.	TOP OF CURB
FND	FOUNDATION	T.O.P.	TOP OF PAVING
FTG	FOOTING	T.O.S.	TOP OF STEEL
GA	GAUGE	TYP	TYPICAL
GALV	GALVANIZED	UNO	UNLESS NOTED OTHERWISE

COLOR LEGEND

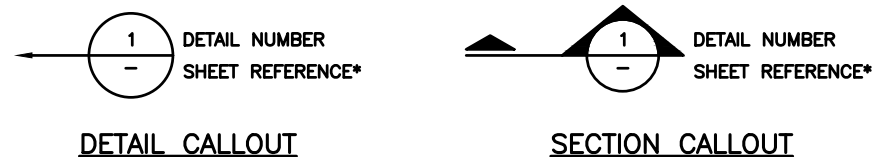
HYBRID & COAX CABLES	
POWER/GROUNDING	
FIBER	
ANTENNAS	
RRH/BBU	
PENETRATIONS	
VZW LANDSPACE	
ACCESS/UTILITY EASEMENT	
NEW VZW UTILITY EASEMENT	



ENGINEERING LICENSE:
STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

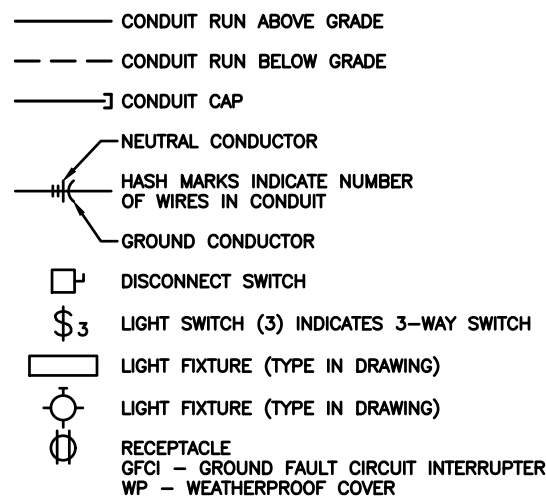
ENGINEER:	PE#:	DISCIPLINE:
J.C. CHRISTOPHER GIANNOTTI	26673	CIVIL
P.J.D. PATRICK J. DAVIS	25079	CIVIL
S.D.K. SHELTON D. KEISLING	13654	ELECTRICAL
M.H.C.M. MARIA H.C. MARTINEZ	24992	ELECTRICAL
T.M.S. TERRANCE M. SUPER	9250	ELECTRICAL

SYMBOLS

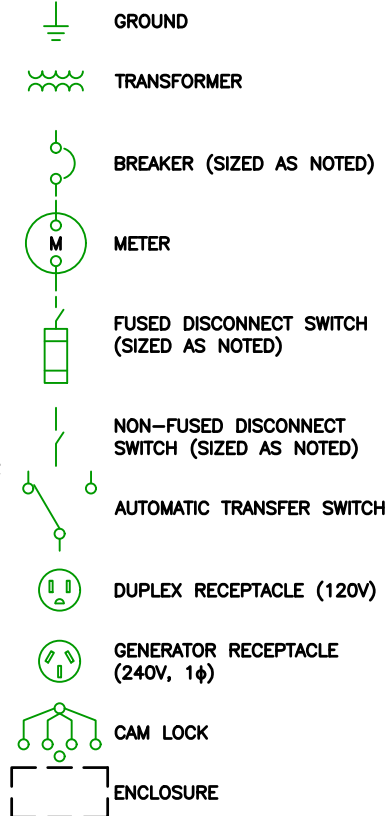


* (-) INDICATES REFERENCED FROM SAME SHEET

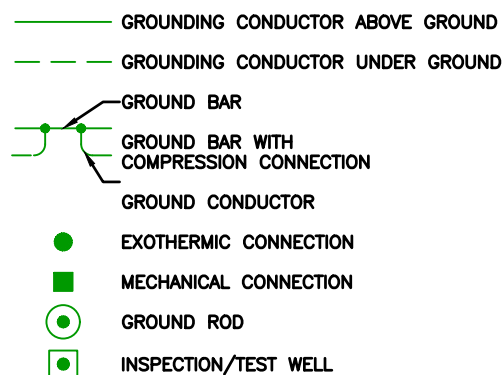
PLAN SYMBOLS



SCHEMATIC SYMBOLS



GROUNDING PLAN SYMBOLS



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MDG LOCATION ID:
TBD

SITE ADDRESS:
2200 BLOCK FAIR RD
ABILENE, KS 67410

SHEET DESCRIPTION:	SHEET #:
GENERAL NOTES	GN-1.0

GENERAL REQUIREMENTS

PART 1: GENERAL

1.1 INTENT:

- A. THESE SPECIFICATIONS AND CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE DONE AND THE MATERIALS TO BE FURNISHED FOR CONSTRUCTION. PLANS ARE NOT TO BE SCALED.
- B. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE FULLY EXPLANATORY AND SUPPLEMENTARY, HOWEVER, SHOULD ANYTHING BE SHOWN, INDICATED OR SPECIFIED ON ONE AND NOT THE OTHER, IT SHALL BE DONE THE SAME AS IF SHOWN, INDICATED OR SPECIFIED IN BOTH.
- C. THE INTENTION OF DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.
- D. CONFLICTS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING MATERIALS OR DOING ANY WORK. NO COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND THOSE ON THE DOCUMENTS. ANY DISCREPANCY SHALL BE REPORTED TO THE OWNER OR THEIR AGENT FOR CONSIDERATION.

1.2 LICENSING REQUIREMENTS:

- A. THE CONTRACTOR IS RESPONSIBLE FOR PROCUREMENT AND MAINTAINING ALL APPLICABLE LICENSES AND BONDS.

1.3 STORAGE:

- A. ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY FASHION THAT DOES NOT OBSTRUCT THE FLOW OF OTHER WORK. ANY STORAGE METHOD MUST MEET ALL RECOMMENDATIONS OF THE ASSOCIATED MANUFACTURER.

1.4 CLEAN UP:

- A. THE CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH AT ALL TIMES.

1.5 QUALITY ASSURANCE:

- A. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

PART 2: PRODUCTS – NOT APPLICABLE TO THIS SECTION

PART 3: EXECUTION – NOT APPLICABLE TO THIS SECTION

END OF SECTION

COMMUNICATIONS/ANTENNA'S

PART 1: GENERAL

1.1 WORK INCLUDED:

- A. ANTENNA AND FEEDLINE CABLES ARE FURNISHED BY OWNER UNDER SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND PROPERTY FROM HAZARDOUS EXPOSURE TO OVERHEAD DANGER.
- B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND OWNER SPECIFICATIONS.
- C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
- D. INSTALL FURNISHED GALVANIZED STEEL WAVEGUIDE LADDER AS INDICATED ON DRAWINGS.
- E. THE CONTRACTOR SHALL PROVIDE FREQUENCY DOMAIN REFLECTOMETER (FDR) TEST RESULTS TO THE CONSTRUCTION MANAGER AND OWNER WITHIN ONE WEEK OF COMPLETION.
- F. INSTALL FEEDLINE CABLES AND TERMINATORS BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTORS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL FEEDLINE CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
- G. ANTENNA AND FEEDLINE CABLE GROUNDING:
 - 1. ALL FEEDLINE CABLE GROUNDING CONNECTIONS ARE TO BE WEATHER SEALED WITH ANDREW CONNECTOR/SPLICE WEATHERPROOFING KITS OR APPROVED EQUAL.
 - 2. ALL FEEDLINE CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF FEEDLINE CABLE (NOT WITHIN BENDS)

1.2 RELATED WORK:

- A. FURNISH THE FOLLOWING WORK AS SPECIFIED UNDER CONSTRUCTION DOCUMENTS, BUT COORDINATE WITH OTHER TRADES PRIOR TO BID:
 - 1. FLASHING OF OPENING INTO OUTSIDE WALLS.
 - 2. SEAL AND CAULK ALL OPENINGS.
 - 3. PAINTING.
 - 4. CUTTING AND PATCHING.

1.3 REQUIREMENTS OF REGULATOR AGENCIES:

- A. FURNISH UL LISTED EQUIPMENT WHERE SUCH LABEL IS AVAILABLE, INSTALL IN CONFORMANCE WITH UL STANDARDS WHERE APPLICABLE.
- B. INSTALL ANTENNA, ANTENNA CABLES, AND GROUNDING SYSTEM IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS IN EFFECT AT PROJECT LOCATION AND RECOMMENDATIONS OF STATE AND LOCAL BUILDING CODES, AND ANY SPECIAL CODES HAVING JURISDICTION OVER SPECIFIC PORTIONS OF WORK. THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:
 - 1. TIA-222 (TELECOMMUNICATIONS INDUSTRY ASSOCIATION) – STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES.
 - 2. FAA (FEDERAL AVIATION ADMINISTRATION ADVISORY) – CIRCULAR AC 70/7460-1K, OBSTRUCTION MARKING AND LIGHTING.
 - 3. FCC (FEDERAL COMMUNICATIONS COMMISSION) – RULES AND REGULATIONS OBSTRUCTION MARKING AND LIGHTING SPECIFICATIONS FOR ANTENNA STRUCTURES AND HIGH INTENSITY OBSTRUCTION LIGHTING SPECIFICATIONS FOR ANTENNA STRUCTURES.
 - 4. AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION) – SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.
 - 5. NEC (NATIONAL ELECTRICAL CODE) – FOR TOWER LIGHTING KITS.
 - 6. UL (UNDERWRITERS LABORATORIES) – APPROVED ELECTRICAL PRODUCTS.
 - 7. IN ALL CASES, THE FAA RULES AND THE FCC RULES ARE APPLICABLE AND IN THE EVENT OF CONFLICT, SUPERSEDE ANY OTHER STANDARDS OR SPECIFICATIONS.
 - 8. LIFE SAFETY CODE NFPA, LATEST EDITION.

PART 2: PRODUCTS – NOT APPLICABLE TO THIS SECTION

PART 3: EXECUTION – NOT APPLICABLE TO THIS SECTION

END OF SECTION

SITE CLEARING/EROSION CONTROL

PART 1: GENERAL

1.1 SUMMARY:

- A. PROVIDE SITE-CLEARING AS REQUIRED TO COMPLETE WORK AS SHOWN ON CONTRACT DOCUMENTS INCLUDING CLEARING, GRUBBING, STRIPPING, EROSION AND SILTATION CONTROL, AND PROTECTION OF LANDSCAPE MATERIALS DESIGNATED TO BE PROTECTED DURING CONSTRUCTION.

1.2 QUALITY ASSURANCE:

- A. COMPLY WITH GOVERNING CODES AND REGULATIONS.
- B. SITE PROTECTION: PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE SUBCONTRACT
- C. AVOID DAMAGE TO THE SITE AND TO EXISTING FACILITIES, STRUCTURES, TREES, AND SHRUBS DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT EXISTING FACILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK.

PART 2: PRODUCTS

2.1 MATERIALS:

- A. TREE PROTECTION, EROSION CONTROL, SILTATION CONTROL, AND DUST CONTROL MATERIALS SUITABLE FOR SITE CONDITIONS.

PART 3: EXECUTION

3.1 SITE CLEARING OPERATIONS:

- A. PROTECTION OF EXISTING TREES, VEGETATION, LANDSCAPING, AND SITE IMPROVEMENTS NOT SCHEDULED FOR CLEARING WHICH MIGHT BE DAMAGED BY CONSTRUCTION ACTIVITIES.
- B. TRIMMING OF EXISTING TREES AND VEGETATION AS RECOMMENDED BY ARBORIST FOR PROTECTION DURING CONSTRUCTION ACTIVITIES.
- C. CLEARING AND GRUBBING OF STUMPS AND VEGETATION, AND REMOVAL AND DISPOSAL OF DEBRIS, RUBBISH, DESIGNATED TREES, AND SITE IMPROVEMENTS.
- D. TOPSOIL STRIPPING AND STOCKPILING.
- E. TEMPORARY EROSION CONTROL, SILTATION CONTROL, AND DUST CONTROL.
- F. TEMPORARY PROTECTION OF ADJACENT PROPERTY, STRUCTURES, BENCHMARKS, AND MONUMENTS.
- G. WATERING OF TREES AND VEGETATION DURING CONSTRUCTION ACTIVITIES.
- H. REMOVAL AND LEGAL DISPOSAL OF CLEARED MATERIALS.
- I. MAINTAIN ALL EXISTING FENCING AND GATES TO MAINTAIN A SECURE SITE AT ALL TIMES.
- J. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT LIFE AND PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.

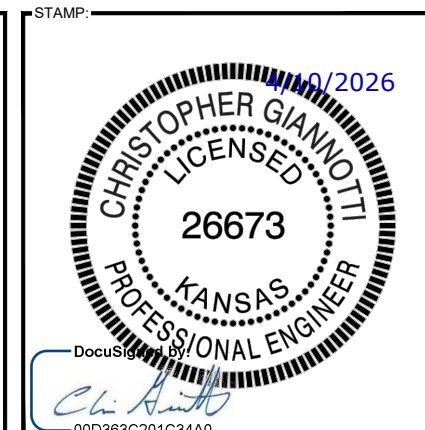
3.2 CLEARING:

- A. PREVENT DAMAGE TO EXISTING IMPROVEMENTS INDICATED TO REMAIN, INCLUDING ON AND OFF SITE. PROTECT EXISTING TREES AND VEGETATION INDICATED TO REMAIN. DO NOT STOCKPILE MATERIALS AND RESTRICT TRAFFIC WITHIN DRIP LINE OF EXISTING TREES TO REMAIN OR THAT INTERFERE WITH ACCESS TO SITE. PROVIDE AND MAINTAIN TEMPORARY GUARDS TO ENCIRCLE TREES OR GROUPS OF TREES TO REMAIN; OBTAIN APPROVAL BEFORE BEGINNING WORK.
- B. WATER VEGETATION AS REQUIRED TO MAINTAIN HEALTH. COVER TEMPORARILY EXPOSED ROOTS WITH WET BURLAP AND BACKFILL AS SOON AS POSSIBLE. COAT CUT PLANT SURFACES WITH APPROVED EMULSIFIED ASPHALT PLANT COATING.
- C. REPAIR OR REPLACE VEGETATION DESIGNATED FOR REUSE, WHICH HAS BEEN DAMAGED. REMOVE HEAVY GROWTHS OF GRASS BEFORE STRIPPING. STOCKPILE SATISFACTORY TOPSOIL CONTAINING NO LARGE STONES, FOREIGN MATTER AND WEEDS ON SITE FOR REUSE.
- D. COMPLETELY REMOVE ALL IMPROVEMENTS, STUMPS AND DEBRIS EXCEPT FOR THOSE INDICATED TO REMAIN. REMOVE BELOW GRADE IMPROVEMENTS AT LEAST 12" BELOW FINISH GRADE SO AS NOT TO INTERFERE WITH NEW CONSTRUCTION. REMOVE ABANDONED MECHANICAL AND ELECTRICAL WORK AS REQUIRED.
- E. PREVENT EROSION AND SILTATION OF STREETS, CATCH BASINS AND PIPING. CONTROL WINDBLOWN DUST. REMOVE WASTE MATERIALS AND UNSUITABLE SOIL FROM SITE AND DISPOSE OF IN A LEGAL MANNER.
- F. EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH SUITABLE FILL AND COMPACT AS REQUIRED.

3.3 EROSION CONTROL:

- A. PROVIDE EROSION AND SILTATION CONTROL AS REQUIRED TO MEET ALL LOCAL AND STATE REQUIREMENTS.

END OF SECTION



DocuSign by: *Ch. Giannotti*

00D363C201C34A0

ENGINEERING LICENSE:
STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
CC PJD SDK MHCM TMS	CHRISTOPHER GIANNOTTI PATRICK J. DAVIS	26673 25097
		CIVIL CIVIL
		13654 24992 9250
		ELECTRICAL ELECTRICAL ELECTRICAL



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US-KS-5112 RED BUD LAKE

MDG LOCATION ID:
TBD

SITE ADDRESS:
**2200 BLOCK FAIR RD
ABILENE, KS 67410**

SHEET DESCRIPTION: SPECIFICATIONS (1 OF 7)	SHEET #: SP-1.0
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CAST-IN-PLACE-CONCRETE

PART 1: GENERAL

1.1 SUMMARY:

- A. FURNISH AND INSTALL ALL CAST-IN-PLACE CONCRETE, REINFORCING AND ACCESSORIES, AS SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS.

1.2 SUBMITTALS:

- A. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH MATERIAL AND PRODUCT USED.
- B. SHOP DRAWINGS: SUBMIT SHOP DRAWINGS INDICATING MATERIAL CHARACTERISTICS, DETAILS OF CONSTRUCTION, CONNECTIONS, AND RELATIONSHIP WITH ADJACENT CONSTRUCTION.
 - SHOP DRAWINGS SHALL BE PREPARED AND STAMPED BY A QUALIFIED ENGINEER LICENSED IN THE JURISDICTION OF THE PROJECT.
- C. MIX DESIGN: SUBMIT FOR APPROVAL MIX DESIGN PROPOSED FOR USE.

1.3 QUALITY ASSURANCE:

- A. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS, WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR A MINIMUM OF THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- B. TESTING: EMPLOY AN INDEPENDENT TESTING AGENCY ACCEPTABLE TO OWNER TO DESIGN CONCRETE MIXES AND TO PERFORM MATERIAL EVALUATION TESTS. PROVIDE 4 AND 28 DAY CYLINDER TESTS. COMPLY WITH ASTM C 143, C 173, C 31 AND C 39.
- C. STANDARDS
 - ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.
 - ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AND CRSI MANUAL OF STANDARD PRACTICE.

PART 2: PRODUCTS

2.1 MATERIALS:

- A. MATERIALS SHALL CONFORM TO THE RESPECTIVE PUBLICATIONS AND OTHER REQUIREMENTS SPECIFIED HEREIN.
- B. CEMENT: CEMENT SHALL CONFORM TO ASTM C150, TYPE 1. CEMENT MAY BE BAGGED OR BULK. CEMENT SHALL BE USED FROM ONLY ONE MILL THROUGHOUT PROJECT.
- C. FINE AGGREGATE: FINE AGGREGATE SHALL CONFORM TO ASTM C33-08 AND SHALL BE UNIFORMLY GRADED, CLEAN, SHARP, WASHED MATERIAL OR CRUSHED SAND, FREE FROM ORGANIC IMPURITIES.
- D. COURSE AGGREGATE: COURSE AGGREGATE SHALL CONFORM TO ASTM C33-08 AND SHALL BE NATURAL WASHED GRAVEL OR WASHED CRUSHED ROCK HAVING HARD, STRONG, DURABLE PIECES, FREE FORM ADHERENT COATINGS, THE MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4" IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C33-08; GRADATION SIZE NO. 67.
- E. WATER: WATER USED IN THE CONCRETE MIX SHALL BE POTABLE, CLEAN, AND FREE FROM OILS, ACIDS, SALTS, CHLORIDES, ALKALI, SUGAR, VEGETABLE, OR OTHER INJURIOUS SUBSTANCES.
- F. REINFORCING STEEL: ALL BARS ARE TO BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. BENDING DETAILS ARE TO CONFORM TO THE STANDARDS OF ACI 318.
- G. FORMS: THE FORMS SHALL BE TRUE AND RIGID AND CONFORM TO SHAPE, LINE AND DIMENSIONS AS SHOWN ON THE DRAWINGS. ALL FORMS SHALL BE RIGIDLY CONSTRUCTED, BRACED AND TIED TO PREVENT ANY DEFLECTION OR DISPLACEMENT DURING PLACING OF CONCRETE. ALL EXPOSED CORNERS AND EDGES SHALL HAVE 3/4" FILLETS. ALL JOINTS SHALL BE MORTAR TIGHT; OPEN JOINTS SHALL BE SEALED AS REQUIRED.
- H. CONCRETE:
 - PROPORTIONING: CONCRETE SHALL CONFORM TO THE FOLLOWING:
 - CEMENT-6 SACKS PER CUBIC YARD, MINIMUM
 - WATER SHALL BE KEPT TO AN ABSOLUTE MINIMUM TO MAINTAIN SLUMP AS SPECIFIED
 - AGGREGATE; SAND FACTOR SHALL BE AS REQUIRED TO GIVE THE BEST WORKABLE MIX WITHIN THE RANGE OF 46% TO 52% OF TOTAL AGGREGATE.
 - STRENGTH-4,000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE
 - ALL CONCRETE SHALL CONTAIN A WATER-REDUCING AGENT AND SHALL HAVE THREE (3) TO FIVE (5) PERCENT ENTRAINED AIR.

2.2 SLUMP:

- A. THE MAXIMUM SLUMP SHALL NOT EXCEED 3" EXCEPT FOR CONCRETE TO BE PLACED IN FORMS 8" WIDE OR LESS, WHERE THE MAXIMUM SLUMP SHALL BE 4".
- B. THE DETERMINATION OF SLUMP SHALL CONFORM TO ASTM C143.

2.3 MIXING:

- A. THE CONTRACTOR SHALL USE READY-MIXED CONCRETE, MIXED AND DELIVERED IN CONFORMANCE WITH ASTM C94.

2.4 MIXTURES:

- A. THE CONCRETE SHALL CONTAIN AN AIR-ENTRAINING ADMIXTURE COMPLYING WITH THE REQUIREMENTS OF ASTM C-260 AND ACI 212.1R AND A WATER-REDUCING ADMIXTURE COMPLYING WITH THE REQUIREMENTS OF ASTM C-494 AND ACI 212.1R. ADMIXTURES SHALL BE PURCHASE AND BATCHED IN LIQUID SOLUTION. THE USE OF CALCIUM CHLORIDE OR AN ADMIXTURE CONTAINING CALCIUM CHLORIDE IS PROHIBITED.
- B. ADMIXTURES SHALL BE OF THE SAME MANUFACTURER TO ASSURE COMPATIBILITY.
- C. ACCEPTABLE MANUFACTURERS ARE:
 - W.R. GRACE
 - SIKA GROUP
 - MASTER BUILDERS
 - EUCLID CHEMICAL CO

2.5 CURING COMPOUNDS:

- A. CURING COMPOUNDS SHALL CONFORM TO ASTM C309, TYPE 1, ID, CLASS A AND B AND ASTM C171 AS APPLICABLE

PART 3: EXECUTION

3.1 GENERAL:

- A. CONSTRUCT AND ERECT FORMWORK IN ACCORDANCE WITH ACI 301 ACI 347.
- B. COLD-WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.
- C. HOT-WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305.

3.2 INSERTS, EMBEDDED COMPONENTS AND OPENINGS:

- A. CONTRACTOR SHALL CHECK ALL CIVIL, ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL DRAWINGS FOR OPENINGS, SLEEVES, ANCHOR BOLTS, INSERTS AND OTHER ITEMS TO BE BUILT INTO THE CONCRETE WORK.
- B. COORDINATE THE WORK OF OTHER SECTIONS IN FORMING AND SETTING OPENINGS, RECESSES, SLOTS, CHASES, ANCHORS, INSERTS AND OTHER ITEMS TO BE EMBEDDED.
- C. EMBEDDED ITEMS SHALL BE SET ACCURATELY IN LOCATION, ALIGNMENT, ELEVATION, AND PLUMBNESS. LOCATE AND MEASURE FROM ESTABLISHED SURVEYED REFERENCE BENCHMARKS.
- D. EMBEDDED ITEMS SHALL BE ANCHORED INTO PLACE AS REQUIRED TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT AND CONSOLIDATION. COMPONENTS FORMING A PART OF A COMPLETE ASSEMBLY SHALL BE ALIGNED BEFORE ANCHORING. PROVIDE TEMPORARY BRACING, ANCHORAGE, AND TEMPLATES AS REQUIRED TO MAINTAIN THE SETTING AND ALIGNMENT.

3.3 REINFORCEMENT PLACEMENT:

- A. REINFORCEMENT SHALL BE PLACED IN ACCORDANCE WITH CHECKED AND RELEASED DRAWINGS AND ACI 301 AND ACI 315; SECURELY WIRE-TIE REINFORCEMENT AT ALL INTERSECTIONS.
- B. ACCURATELY POSITION, SUPPORT AND SECURE REINFORCEMENT AGAINST DISPLACEMENT FROM FORMWORK CONSTRUCTION OR CONCRETE PLACEMENT AND CONSOLIDATION. REINFORCING SHALL BE SUPPORTED ON METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, AND HANGERS.
- C. SPLICES OF REINFORCING BARS SHALL BE CLASS B UNLESS SHOWN OTHERWISE. SPLICES SHALL BE STAGGERED. FULL DEVELOPMENT LENGTH SHALL BE PROVIDED ACROSS JOINTS.
- D. LOCATE REINFORCING TO PROVIDE CONCRETE COVER AND SPACING SHOWN ON THE DRAWINGS. MINIMUM COVER SHALL BE AS REQUIRED BY ACI 318.
- E. WELDING OF AND TO ANY REINFORCING MATERIALS INCLUDING TACK WELDING OF CROSSING BARS IS STRICTLY PROHIBITED. BARS SHALL BE FREE OF FLAKY OR SCALY RUST AT THE TIME THE CONCRETE IS PLACED.

3.4 CONCRETE PLACEMENT:

- A. PRIOR TO PLACING CONCRETE, FORMS AND REINFORCEMENT SHALL BE THOROUGHLY INSPECTED. ALL WOOD CHIPS, DIRT, ETC., AS WELL AS ALL TEMPORARY BRACING, TIES, AND CLEATS REMOVED, AND ALL OPENINGS FOR UTILITIES PROPERLY BOXED, ALL FORMS SHALL BE PROPERLY SECURED IN THEIR CORRECT POSITION AND MADE TIGHT. ALL REINFORCING AND EMBEDDED ITEMS SHALL BE SECURED IN THEIR PROPER LOCATIONS.. ALL OLD AND DRY CONCRETE AND DIRT SHALL BE CLEANED AND ALL STANDING WATER AND OTHER FOREIGN MATTER REMOVED.

- B. PLACING CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301 AND ACI 304 AND SHALL BE CARRIED OUT AT SUCH A RATE THAT THE CONCRETE PREVIOUSLY PLACED IS STILL PLASTIC AND INTEGRATED WITH THE FRESHLY PLACE CONCRETE. CONCRETING, ONCE STARTED, SHALL BE CARRIED ON AS A CONTINUOUS OPERATION UNTIL THE SECTION IS COMPLETED. NO COLD JOINTS SHALL BE ALLOWED.
- C. CONSTRUCTION JOINTS: USE KEYWAYS, CONTINUE REINFORCEMENT THROUGH JOINT.
- D. EXPANSION JOINTS: FOR EXTERIOR WORK, LOCATE AT 30'-0" O.C. MAXIMUM, AT APPROVED LOCATIONS. PROVIDE SMOOTH DOWELS ACROSS JOINT WHICH PERMIT 1" HORIZONTAL MOVEMENT AND NO VERTICAL SHEAR MOVEMENT.
- E. ISOLATION JOINTS: PROVIDE BETWEEN SLABS AND VERTICAL ELEMENTS SUCH AS COLUMNS AND STRUCTURAL WALLS.
- F. CONTROL JOINTS: PROVIDE SAWN OR TOOLED JOINTS OR REMOVABLE INSERT STRIPS; DEPTH EQUAL TO 1/4" SLAB THICKNESS. SPACING SHALL BE AS REQUIRED AND APPROVED.
- G. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED AND COMPACTED BY VIBRATION, SPADING, RODDING, OR FORKING DURING THE OPERATION OF PLACING AND DEPOSITING IN ACCORDANCE WITH ACI 309. THE CONCRETE SHALL BE WORKED AROUND REINFORCEMENT, EMBEDDED ITEMS, AND INTO THE CORNERS OF THE FORMS SO AS TO ELIMINATE ALL AIR AND STONE POCKETS.

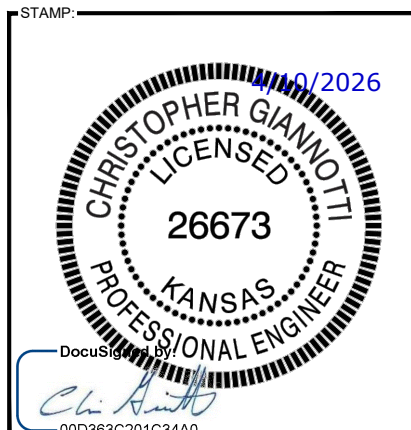
3.5 FINISHING:

- A. FINISHING OF ALL SLABS SHALL BE IN ACCORDANCE WITH ACI 302.1; SECTION 7.2 WITH A MINIMUM OF THREE TROWELINGS.
 - INTERIOR SLAB FINISH TOLERANCE AS MEASURED IN ACCORDANCE WITH ASTM E 1155, SHALL HAVE AN OVERALL TEST F NUMBER FOR FLATNESS, FF=20 AND FOR LEVEL, FL=15. THE MINIMUM LOCAL NUMBER FOR FLATNESS, FF=15 AND FOR LEVEL, FL=10.
 - EXTERIOR SLAB FINISH SHALL BE FLAT (FF=20) AND SHALL BE SLOPED A MINIMUM OF 1/8" PER FOOT TO A MAXIMUM OF 1/4" PER FOOT TO PREVENT PONDING WATER.
- B. SURFACES OF SLABS SHALL RECEIVE TWO COATS OF CLEAR SEALER/HARDNER.
- C. ABOVE GRADE WALL SURFACES SHALL HAVE A SMOOTH FORM FINISH AS DEFINED IN CHAPTER 10 OF ACI 301.

3.6 CURING:

- A. FRESHLY DEPOSITED CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING AND EXCESSIVELY HOT OR COLD TEMPERATURES AND SHALL BE MAINTAINED WITH MINIMAL MOISTURE LOSS AT A RELATIVELY CONSTANT TEMPERATURE FOR A PERIOD OF TIME NECESSARY FOR THE HYDRATION OF THE CEMENT AND PROPER HARDENING OF THE CONCRETE.
- B. CURING SHALL IMMEDIATELY FOLLOW THE FINISH OPERATION. CONCRETE SHALL BE KEPT CONTINUOUSLY MOIST AT LEAST OVERNIGHT, IMMEDIATELY FOLLOWING THE INITIAL CURING. BEFORE THE CONCRETE HAS DRIED, ADDITIONAL CURING SHALL BE ACCOMPLISHED BY ONE OF THE FOLLOWING MATERIALS OR METHODS:
 - PONDING OR CONTINUOUS SPRINKLING
 - ABSORPTIVE MAT OR FABRIC KEPT CONTINUOUSLY WET
 - NON-ABSORPTIVE FILM (POLYETHYLENE) OVER A PREVIOUSLY SPRINKLED SURFACE
 - SAND OR OTHER COVERING KEPT CONTINUOUSLY WET
 - CONTINUOUS STEAM (NOT EXCEEDING 150 DEGREES F) OR VAPOR MIST BATH.
 - SPRAYED-ON CURING COMPOUND APPLIED IN TWO COATES, SPRAYED IN PERPENDICULAR DIRECTIONS.
- C. THE FINAL CURING SHALL CONTINUE UNTIL THE CUMULATIVE NUMBER OF DAYS OR FRACTION THEREOF, NOT NECESSARILY CONSECUTIVE, DURING WHICH TEMPERATURE OF THE AIR IN CONTACT WITH CONCRETE IS ABOVE 50 DEGREES F HAS TOTALED SEVEN (7) DAYS. CONCRETE SHALL NOT BE PERMITTED TO FREEZE DURING THE CURING PERIOD. RAPID DRYING AT THE END OF THE CURING PERIOD SHALL BE PREVENTED.

END OF SECTION



ENGINEERING LICENSE:
STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571
00D363C201C34A0

ENGINEER:	PE#:	DISCIPLINE:
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MHCM MARIA H.C. MARTINEZ	24992	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL



PLANS PREPARED FOR:
verticalbridge

PLANS PREPARED BY:
SSC

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SUBMITTALS:	DESCRIPTION	DATE	BY	REV
	ISSUED FOR REVIEW	07/14/25	DSL	A
	REISSUED PER FIBER RUN	09/09/25	AWD	B
	ISSUED FOR CONSTRUCTION	04/10/26	AWD	0

APPLICANT SITE NAME:
US-KS-5112 RED BUD LAKE

MDG LOCATION ID:
TBD

SITE ADDRESS:
2200 BLOCK FAIR RD
ABILENE, KS 67410

SHEET DESCRIPTION: SPECIFICATIONS (2 OF 7)
SHEET #: SP-1.1

UNIT MASONRY

PART 1: GENERAL

1.1 SUMMARY:

- A. PROVIDE UNIT MASONRY CONSTRUCTION AS INDICATED ON THE DRAWINGS.

PART 2: PRODUCTS

2.1 MATERIALS:

A. CLAY MASONRY UNITS:

- 1. APPLICATION: BRICK AND CONCRETE BLOCK CAVITY WALLS.
- 2. SIZE: STANDARD MODULAR, 3-5/8" THICK BY 2-1/4" HIGH BY 7-5/8" LONG OR AS INDICATED ON DRAWINGS.
- 3. TYPE: ASTM C 216, TYPE FBS, FOR GENERAL EXPOSED USE, OR AS INDICATED ON DRAWINGS. GRADE SHALL BE SW, UNLESS NOTED OTHERWISE ON DRAWINGS.
- 4. SPECIAL SHAPES: AS REQUIRED BY BUILDING CONFIGURATION. OR AS INDICATED ON DRAWINGS
- 5. BOND PATTERN: RUNNING BOND

B. CONCRETE MASONRY UNITS:

- 1. CONCRETE MASONRY UNITS: HOLLOW, LOAD-BEARING, NORMAL WEIGHT, ASTM C 90, GRADE N, TYPE 1, 1500 F'M COMPRESSIVE STRENGTH:
 - a. MEDIUM WEIGHT
- 2. SIZE: 7-5/8" HIGH BY 15-5/8" LONG BY EITHER 7-5/8" OR 11-5/8" THICK OR AS INDICATED ON DRAWINGS.
- 3. SPECIAL SHAPES: AS REQUIRED BY BUILDING CONFIGURATION.
- 4. BOND PATTERN: RUNNING BOND UNLESS NOTED OR SHOWN DIFFERENTLY ON DRAWINGS.

C. LIMESTONE/PRECAST TRIM UNITS:

- 1. GRADE AND COLOR: AS SHOWN ON DRAWINGS
- 2. FINISH: AS IDENTIFIED ON DRAWINGS

D. MORTAR AND GROUT FOR BRICK AND CONCRETE MASONRY UNIT ASSEMBLIES:

- 1. MORTAR MIX: ASTM C 270, TYPE S, FOR REINFORCED MASONRY, MASONRY BELOW GRADE AND MASONRY IN CONTACT WITH EARTH AND ASTM C 270, TYPE N, FOR ABOVE-GRADE LOADBEARING AND NONLOADBEARING WALLS. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE 1. MASONRY CEMENT SHALL CONFORM TO ASTM C91. FINE AGGREGATE SHALL CONFORM TO ASTM C144.
- 2. MORTAR COLOR: NATURAL COLOR UNLESS NOTED OTHERWISE ON DRAWINGS.
- 3. GROUT: ALL GROUT FOR FILLING BOND BEAMS AND REINFORCED CELLS SHALL CONFORM TO NON-AIR ENTRAINED GROUT PER ASTM C476 WITH PORTLAND CEMENT PER ASTM C150, TYPE 1, AND FINE AND COARSE AGGREGATE PER ASTM C404.

E. REINFORCING STEEL:

- 1. REINFORCING BARS: ASTM A 615, GRADE 60.
- 2. WELDED WIRE FABRIC: ASTM A 185, PLAIN.

F. REINFORCING: WELDED WIRE WITH DEFORMED SIDE RODS.

- 1. STEEL WIRE: 9 GAUGE (.1875 INCH) GALVANIZED STEEL.
- 2. TRUSS TYPE

G. TIES AND ANCHORS:

- 1. BENT WIRE TIES: GALVANIZED STEEL.
- 2. RIGID ANCHORS: GALVANIZED STEEL STRAPS.

PART 3: EXECUTION

3.1 INSTALLATION:

A. INSTALLATION OF MASONRY ASSEMBLIES:

- 1. COMPLY WITH PCA RECOMMENDED PRACTICES FOR LAYING CONCRETE BLOCK, BRICK INSTITUTE OF AMERICA BIA TECH NOTES, AND NCMA TEK BULLETINS.
- 2. COMPLY WITH COLD WEATHER AND WARM WEATHER PROTECTION PROCEDURES AS RECOMMENDED IN BIA TECH NOTES.

END OF SECTION

STRUCTURAL STEEL FRAMING

PART 1: GENERAL

1.1 SUMMARY:

- A. PROVIDE STRUCTURAL STEEL ASSEMBLIES, FABRICATIONS, AND ERECTION OF STEEL AND OTHER ITEMS AS SHOWN ON THE DRAWINGS OR REQUIRED FOR A COMPLETE INSTALLATION.

1.2 QUALITY ASSURANCE:

- A. COMPLY WITH ALL APPLICABLE GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS, WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- B. STANDARDS: AISC, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, AND APPLICABLE REGULATIONS.
- C. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL: COMPLY WITH FABRICATION REQUIREMENTS, INCLUDING TOLERANCE LIMITS, AND INSTALLATION TOLERANCES OF AISC'S "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" FOR STRUCTURAL STEEL.
- D. ERECTION TOLERANCES: AISC STANDARDS.

1.3 SUBMITTALS:

- A. SUBMIT FABRICATION AND ERECTION DRAWINGS SHOWING ALL DETAILS, CONNECTIONS, MATERIAL DESIGNATIONS, AND ALL TOP OF STEEL ELEVATIONS TO ENGINEER FOR APPROVAL.
- B. WELDERS SHALL BE QUALIFIED AS PRESCRIBED IN AWS D1.1.

PART 2: PRODUCTS

2.1 MATERIALS:

A. STRUCTURAL STEEL:

- 1. STRUCTURAL STEEL SHAPES, PLATES, AND BARS: ASTM A 572, ASTM A-36.
- 2. COLD-FORMED STEEL TUBING: ASTM A 500, GRADE B.
- 3. STEEL PIPE: ASTM A 53, TYPE E OR S, GRADE B; OR ASTM A 501.
- 4. ANCHOR BOLTS: ASTM A 307, NON-HEADED TYPE
- 5. COMMON (MACHINE) BOLTS SHALL CONFORM TO ASTM A307 GRADE A AND NUTS TO ASTM A563. ONE COMMON BOLT ASSEMBLY SHALL CONSIST OF A BOLT, A HEAVY HEX NUT, AND A HARDENED WASHER. BOLTS AND NUTS TO BE HOT DIPPED GALVANIZED PER ASTM A153 IF EXPOSED.
- 6. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A325 OR A490, AS APPLICABLE. ONE HIGH STRENGTH BOLT ASSEMBLY SHALL CONSIST OF A HEAVY HEX STRUCTURAL BOLT, A HEAVY HEX NUT, AND A HARDENED WASHER CONFORMING TO ASTM F436. THE HARDENED WASHER SHALL BE INSTALLED AGAINST THE ELEMENT TURNED IN TIGHTENING. BOLTS AND NUTS TO BE HOT-DIP GALVANIZED PER ASTM A153 IF EXPOSED.

7. AUXILIARY MATERIALS:

- a. DIRECT TENSION INDICATORS: ASTM A 959
- b. ELECTRODES FOR WELDING: AWS CODE; E70XX

8. GROUTS:

- a. CEMENT GROUT: PORTLAND CEMENT, SAND.
- b. METALLIC SHRINKAGE-RESISTANT GROUT: PREMIXED FERROUS AGGREGATE GROUTING COMPOUND ASTM C 1107.
- c. NONMETALLIC SHRINKAGE-RESISTANT GROUT: PREMIXED NONMETALLIC GROUTING COMPOUND, ASTM C 1107.

B. SHOP PAINTING

- 1. GENERAL: ALL STRUCTURAL STEEL MATERIALS EXPOSED TO THE ELEMENTS SHALL BE HOT DIPPED GALVANIZED PER ASTM 123. ALL OTHER STRUCTURAL STEEL SHALL BE SHOP PRIMED.
 - a. DO NOT PAINT SURFACES TO BE WELDED OR HIGH-STRENGTH BOLTED WITH FRICTION-TYPE CONNECTIONS.
 - b. DO NOT PAINT SURFACES SCHEDULED TO RECEIVE SPRAYED-ON FIREPROOFING.
- 2. STRUCTURAL STEEL FACTORY APPLIED PRIMER PAINT (FOR NON-GALVANIZED MATERIALS): STANDARD RED OXIDE, LEAD AND CHROMATE-FREE, NON-ASHPALTIC, RUST-INHIBITING PRIMER COMPLYING WITH FS TT-P-664

- 3. ZINC COATED (HOT DIP GALVANIZED) PER ASTM A123 (AFTER FABRICATION): TOUCH-UP AFTER ERECTION: CLEAN AND WIRE BRUSH ANY ABRADED AND OTHER SPOTS WORN THROUGH ZINC COATING, INCLUDING THREADED PORTIONS OF BOLTS AND WELDS AND TOUCH-UP WITH GALVANIZING REPAIR PAINT.

C. FIELD PAINTING: REPAIR / TOUCH-UP OF DAMAGED GALVANIZED OR PRIMED SURFACES:

- a. FOR GALVANIZED SURFACES, USE ORGANIC ZINC-RICH COATING MATCHING THE APPEARANCE OF HOT-DIP GALVANIZING CONTAINING AT LEAST 65% - 69% OR ABOVE 92% METALLIC ZINC. BY WEIGHT IN THE DRY FILM, MEETING THE PERFORMANCE REQUIREMENTS OF THE FOLLOWING: ASTM A 780-01, DOD-P-21035B, MIL-P-46105, AND SSPC PS-12, PS-12.01, PS-20, PS-22, PS-29 AND PS-30
- b. FOR PRIMED SURFACES, CLEAN ALL SURFACES AND RE-PRIME PER RECOMMENDATIONS OF ORIGINAL PRIME MATERIALS.

PART 3: EXECUTION

3.1 FABRICATION:

A. SHOP FABRICATE AND ASSEMBLE MATERIALS AS SPECIFIED HEREIN:

- 1. FABRICATE ITEMS IN ACCORDANCE WITH THE AISC-ASD SPECIFICATIONS
- 2. ALL EXPOSED STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123
- 3. PROPERLY MARK AND MATCH-MARK MATERIALS FOR FIELD ASSEMBLY AND FOR IDENTIFICATION AS TO LOCATION FOR WHICH INTENDED
- 4. FABRICATE AND DELIVER IN A SEQUENCE WHICH WILL EXPEDITE ERECTION AND MINIMIZE FIELD HANDLING OF MATERIALS.
- 5. PROVIDE FINISH SURFACE OF MEMBERS EXPOSED IN THE FINAL STRUCTURE FREE FROM MARKINGS, BURRS, AND OTHER DEFECTS.

B. CONNECTIONS

- 1. PROVIDE BOLTS AND WASHERS OF TYPES AND SIZE REQUIRED FOR COMPLETION OF FIELD ERECTION. USE 3/4" DIAMETER A325 N BOLTS UNLESS NOTED OTHERWISE.
- 2. INSTALL HIGH STRENGTH THREADED FASTENERS IN ACCORDANCE WITH RCSC "SPECIFICATIONS FOR STRUCTURAL JOINTS" USING ASTM A325 N OR ASTM A490 BOLTS.
- 3. WELDED CONSTRUCTION SHALL COMPLY WITH AWS D1.1 FOR PROCEDURES, APPEARANCE, QUALITY OF WELDS, AND METHODS USED IN CORRECTING WELDED WORK.
- 4. THE FABRICATOR SHALL FURNISH AND INSTALL ERECTION CLIPS FOR FIT-UP OF WELDED CONNECTIONS.
- 5. DOUBLE ANGLE MEMBERS SHALL HAVE WELDED FILLERS SPACED IN ACCORDANCE WITH CHAPTER E4 OF THE AISC-ASD SPECIFICATION.
- 6. GUSSET AND STIFFENER PLATES SHALL BE 3/8" THICK MINIMUM.

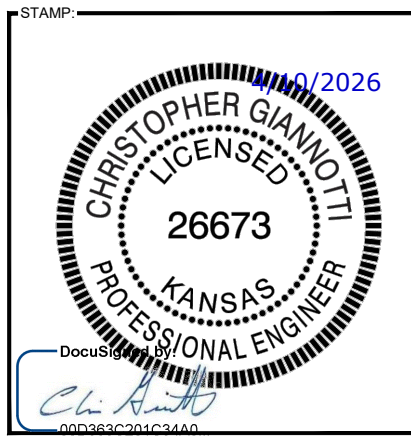
3.2 INSTALLATION:

- A. INSTALLATION OF STRUCTURAL STEEL SHALL COMPLY WITH AISC "CODE OF STANDARD PRACTICE".
- B. STRUCTURAL FIELD WELDING SHALL BE DONE BY THE ELECTRIC SUBMERGED OR SHIELDED METAL ARC PROCESS. WELDED CONSTRUCTION SHALL COMPLY WITH AWS D1.1
- C. PROVIDE TEMPORARY SHORING AND BRACING WITH CONNECTIONS OF SUFFICIENT STRENGTH TO BEAR IMPOSED LOADS. REMOVE WHEN FINAL CONNECTIONS HAVE BEEN MADE.
- D. ALIGN AND ADJUST MEMBERS AS REQUIRED PRIOR TO FINAL INSPECTION.
- E. INSTALL AND FULLY TENSION HIGH STRENGTH THREADED FASTENERS IN ACCORDANCE WITH RCSC, "SPECIFICATIONS FOR STRUCTURAL JOINTS" USING ASTM A 325 N OR ASTM A 490 BOLTS.

3.3 FINAL INSPECTION:

- A. CLEAN ALL SURFACES UPON COMPLETION OF WORK.
- B. COMPLY WITH AISC CODES AND SPECIFICATIONS, AND WITH AWS "STRUCTURAL WELDING CODE".
- C. TOUCH-UP FIELD WELDS AND ABRADED AREAS AS REQUIRED.

END OF SECTION

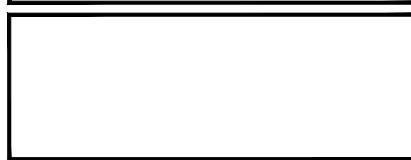


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ENGINEERING LICENSE: STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
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PJD PATRICK J. DAVIS	25087	CIVIL
SDK SHELTON D. KEISLING	13654	ELECTRICAL
MHCM MARIA H.C. MARTINEZ	24992	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL



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SUBMITTALS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	07/14/25	DSL	A
REISSUED PER FIBER RUN	09/09/25	AWD	B
ISSUED FOR CONSTRUCTION	04/10/26	AWD	0

APPLICANT SITE NAME:
US-KS-5112 RED BUD LAKE

MDG LOCATION ID:
TBD

SITE ADDRESS:
**2200 BLOCK FAIR RD
ABILENE, KS 67410**

SHEET DESCRIPTION: SPECIFICATIONS (3 OF 7)	SHEET #: SP-1.2
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EARTH MOVING/EXCAVATION/BACKFILLING

PART 1: GENERAL

1.1 SUMMARY:

- A. PROVIDE EARTHWORK OPERATIONS INCLUDING BUT NOT LIMITED TO EXCAVATION, GRADING, TRENCHING AND COMPACTION.

1.2 QUALITY ASSURANCE COMPACTION:

- A. UNDER STRUCTURES, BUILDING SLABS, STEPS, PAVEMENTS, AND WALKWAYS, 95% MAXIMUM DENSITY, ASTM D 1557.
 - 1. GRADING TOLERANCES:
 - a. LAWNS, UNPAVED AREAS, AND WALKS, PLUS OR MINUS 1".
 - b. KEEP SITE FREE FROM ANY PONDING WATER
 - c. GRADING TOLERANCE FOR FILL UNDER BUILDING OR EQUIPMENT SLABS: PLUS OR MINUS 1/4" MEASURED WITH 10'-0" STRAIGHTEDGE.
 - 2. TESTING: FIELD TESTING OF EARTHWORK AND COMPACTION SHALL BE PERFORMED BY OWNER'S INDEPENDENT TESTING LAB. THIS WORK IS TO BE COORDINATED BY THE CONTRACTOR.
 - 3. ALL WORK SHALL BE INSPECTED AND RELEASED BY THE OWNER OR HIS AGENT WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK AS SPECIFIED AND/OR CALLED OUT BY THE CONSTRUCTION DOCUMENTS. PROVIDE A MINIMUM OF 48 HOURS NOTICE PRIOR TO ANY PLACEMENT OF CONCRETE OR BACKFILLING OF TRENCHES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.
 - 4. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY OWNER OR HIS AGENT AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.

PART 2: PRODUCTS

2.1 GENERAL:

- A. UTILITY TRENCH: PROVIDE WELL GRADED SAND (SW-SM) FROM BASE OF TRENCH TO MINIMUM ABOVE THE HIGHEST CONDUIT WITHIN TRENCH. REMAINDER OF TRENCH AREA CAN BE EITHER AB 3 OR CLEAN GRAVEL AS DESCRIBED HEREIN. COMPACT AS REQUIRED TO PREVENT SETTLING.
- B. ACCESS ROADS: 6" MINIMUM (UNLESS NOTED OTHERWISE ON DRAWINGS) COMPACTED AB 3 OR APPROVED EQUAL (UNWASHED CRUSHED LIMESTONE GRAVEL CONSISTING OF MULTIPLE AGGREGATE SIZES, ROCK CHIPS, AND ROCK DUST.)
- C. COMPOUND (NEW CONSTRUCTION): 2" THICK CLEAN GRAVEL, WITH 100% PASSING THROUGH A 1" SIEVE OVER 4" COMPACTED AB 3.
- D. COMPOUND (EXISTING): PROVIDE CLEAN GRAVEL WITH 100% PASSING THROUGH A 1" SIEVE AS REQUIRED TO BRING COMPOUND TO PROPER GRADE OR REPAIR EXISTING DAMAGED AREAS.
- E. STRUCTURAL FILL: PROVIDE 4" MINIMUM AB 3 BELOW STRUCTURES OR SLABS

2.2 MATERIALS:

- A. GEOTEXTILE FABRIC: PROVIDE MIRAFI 500X OR APPROVED EQUAL.
- B. PLASTIC MARKING TAPE: SHALL BE ACID AND ALKALI RESISTANT POLYETHYLENE FILM SPECIFICALLY MANUFACTURED FOR MARKING AND LOCATING UNDERGROUND UTILITIES, 6" WIDE WITH A MINIMUM THICKNESS OF 0.004". TAPE SHALL HAVE MINIMUM STRENGTH OF 1500 PSI IN BOTH DIRECTIONS AND MANUFACTURED WITH INTEGRAL WIRES OR OTHER MEANS TO ENABLE DETECTION BY A METAL DETECTOR WHEN BURIED UP TO 3'-0" DEEP. THE CORE OF THE TAPE SHALL BE ENCASED IN A PROTECTIVE JACKET OR OTHER MEANS TO PROTECT FROM CORROSION. TAPE COLOR SHALL BE RED FOR ELECTRIC UTILITIES AND ORANGE FOR TELECOMMUNICATION

PART 3: EXECUTION

3.1 INSTALLATION:

- A. PRIOR TO EXCAVATING, THOROUGHLY EXAMINE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE OF ANY STRUCTURE NOT SHOWN THAT MIGHT INTERFERE WITH NEW CONSTRUCTION. NOTIFY THE OWNER OR HIS AGENT OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.
- B. EXCAVATION IS UNCLASSIFIED AND INCLUDES EXCAVATION TO SUBGRADE REGARDLESS OF MATERIALS. REPAIR EXCAVATIONS BEYOND ELEVATIONS AND DIMENSIONS INDICATED AS REQUIRED.
- C. MAINTAIN STABILITY OF EXCAVATIONS; COORDINATE SHORING AND BRACING AS REQUIRED BY AUTHORITIES HAVING JURISDICTION. PREVENT SURFACE AND SUBSURFACE WATER FROM ACCUMULATING IN EXCAVATIONS. STOCKPILE SATISFACTORY MATERIALS FOR REUSE, ALLOW FOR PROPER DRAINAGE.

- D. COMPACT MATERIALS AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D 1557 BY AERATION OR WETTING TO 95% OF MAXIMUM DRY DENSITY TO SUITABLE DEPTH.
- E. PLACE ACCEPTABLE MATERIALS IN LAYERS NOT MORE THAN 8" LOOSE DEPTH FOR MATERIALS COMPACTED BY HEAVY EQUIPMENT AND NOT MORE THAN 4" LOOSE DEPTH FOR MATERIALS COMPACTED BY HAND EQUIPMENT TO SUBGRADES INDICATED AS FOLLOWS:
 - 1. STRUCTURAL FILL: USE UNDER FOUNDATIONS, SLABS ON GRADE IN LAYERS AS INDICATED.
 - 2. DRAINAGE FILL: USE UNDER DESIGNATED BUILDING SLABS, AT FOUNDATION DRAINAGE AND ELSEWHERE AS INDICATED.
 - 3. COMMON FILL: USE UNDER UNPAVED AREAS.
 - 4. SUBBASE MATERIAL: USE UNDER GENERAL COMPOUND AREA. IF THICKNESS OF LIFT IS GREATER THAN 6" SPREAD AND COMPACT THE CRUSHED STONE IN MULTIPLE LIFTS OF EQUAL THICKNESS WITH A MAXIMUM LIFT OF 6"
- F. GRADE TO 1/2" ABOVE OR BELOW REQUIRED SUBGRADE AND TO A TOLERANCE OF 1/4" IN 10'-0".
- G. PROTECT NEWLY GRADED AREAS FROM TRAFFIC AND EROSION. RE-COMPACT AND RE-GRADE SETTLED, DISTURBED AND DAMAGED AREAS TO RESTORE QUALITY, APPEARANCE, AND CONDITION.
- H. CONTROL EROSION TO PREVENT RUNOFF INTO SEWERS OR DAMAGE TO AREAS.
- I. CONTROL DUST TO PREVENT HAZARDS TO ADJACENT PROPERTIES AND VEHICLES. IMMEDIATELY REPAIR OR REMEDY DAMAGE CAUSED BY DUST INCLUDING AIR FILTERS IN EQUIPMENT AND VEHICLES. CLEAN SOILED SURFACES.
- J. DISPOSE OF WASTE AND UNSUITABLE MATERIALS OFF-SITE IN A LEGAL MANNER.

3.2 BACKFILL:

- A. AS SOON AS PRACTICAL AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING THE SPECIFIED MINIMUM CURING PERIOD FOR CAST-IN-PLACE CONCRETE, BACKFILL THE EXCAVATION WITH APPROVED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
 - 1. PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL HAVE BEEN REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
 - 2. BACKFILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL, WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 8" LOOSE THICKNESS. WHERE HAND OPERATED COMPACTORS ARE USED, THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4" IN LOOSE DEPTH.
 - 3. IF THE DENSITY TESTING INDICATES THAT THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE SPECIFICATION REQUIREMENTS ARE MET UNLESS AUTHORIZED BY THE GEO-TECHNICAL ENGINEER. THE CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY TO OBTAIN PROPER COMPACTION.
- B. COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.3 TRENCH EXCAVATION:

- A. UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE OWNER OR HIS AGENT. PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS.
- B. EXTEND THE TRENCH WIDTH A MINIMUM OF 6" BEYOND THE OUTSIDE EDGE OF THE OUTER-MOST CONDUIT.
- C. WHEN SOFT, YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, BACKFILL AT THE REQUIRED TRENCH TO A DEPTH OF NO LESS THAN 12" BELOW THE REQUIRED ELEVATION AND BACKFILL WITH GRANULAR BEDDING MATERIAL.

3.4 TRENCH BACKFILL:

- A. PROVIDE GRANULAR BEDDING MATERIAL (WELL GRADED SAND) IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS.
- B. NOTIFY THE OWNER OR HIS AGENT 24 HOURS IN ADVANCE OF BACKFILLING.
- C. CONDUCT UTILITY CHECK TESTS BEFORE BACKFILLING. BACKFILL AND COMPACT TRENCH BEFORE ACCEPTANCE TESTING.
- D. PLACE GRANULAR TRENCH BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 6" UNCOMPACTED LIFTS UNTIL 6" OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO SPACES AROUND CONDUITS.
- E. PROTECT CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.

- F. ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT BACKFILL MATERIAL IN 8" MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.
- G. COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN EXISTING UNDISTURBED MATERIAL ADJACENT TO THE TRENCH BUT NO LESS THAN A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

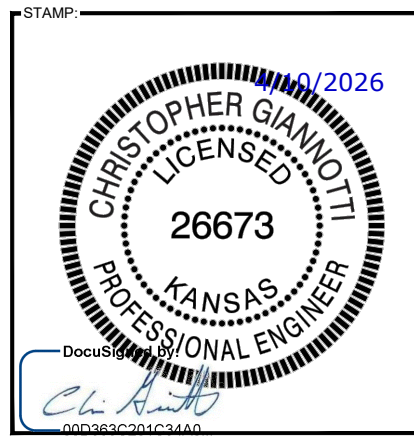
3.5 AGGREGATE ACCESS ROAD (IF APPLICABLE):

- A. CLEAR, GRUB, STRIP AND EXCAVATE FOR ACCESS ROAD TO THE LINES AND GRADES INDICATED ON DRAWINGS. SCARIFY TO A DEPTH OF 6" AND PROOF-ROLL ALL HOLES, RUTS, SOFT PLACES AND OTHER DEFECTS.
- B. THE ENTIRE SUBGRADE SHALL BE COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 1557.
- C. AFTER PREPARATION OF THE SUBGRADE IS COMPLETE, THE GEOTEXTILE FABRIC (MIRAFI 500X) SHALL BE INSTALLED TO THE LIMITS INDICATED ON DRAWINGS BY ROLLING THE FABRIC OUT LONGITUDINALLY ALONG ROADWAY. THE FABRIC SHALL NOT BE DRAGGED ACROSS THE SUBGRADE. PLACE THE ENTIRE ROLL IN A SINGLE OPERATION, AS SMOOTHLY AS POSSIBLE.
 - 1. OVERLAPS PARALLEL TO THE ROADWAY WILL BE PERMITTED AT THE CENTERLINE AND AT LOCATIONS BEYOND THE ROADWAY SURFACE WIDTH. NO LONGITUDINAL OVERLAPS SHALL BE LOCATED BETWEEN THE CENTERLINE AND THE SHOULDER. PARALLEL OVERLAPS SHALL BE A MINIMUM OF 3'-0" WIDE.
 - 2. TRANSVERSE OR PERPENDICULAR OVERLAPS AT THE END OF A ROLL SHALL OVERLAP IN THE DIRECTION OF THE AGGREGATE PLACEMENT (PREVIOUS ROLL ON TOP) AND SHALL HAVE A MINIMUM LENGTH OF 3'-0".
 - 3. ALL OVERLAPS SHALL BE PINNED WITH STAPLES OR NAILS BETWEEN 10" AND 12" LONG TO INSURE POSITIONING DURING PLACEMENT OF AGGREGATE. PIN LONGITUDINAL SEAMS AT 25'-0" O.C. AND TRANSVERSE SEAMS EVERY 5'-0" O.C.
- D. THE AGGREGATE BASE AND SURFACE COURSES SHALL BE CONSTRUCTED IN LAYERS NOT MORE THAN 6" (COMPACTED) THICKNESS. AGGREGATE TO BE PLACED ON GEOTEXTILE FABRIC AND SHALL BE END-DUMPED ON THE FABRIC FROM THE FREE END OF THE FABRIC OR OVER PREVIOUSLY PLACED AGGREGATE. AT NO TIME SHALL EQUIPMENT BE PERMITTED ON THE ROADWAY WITH LESS THAN 6" OF MATERIAL COVERING THE FABRIC.
- E. THE AGGREGATE SHALL BE IMMEDIATELY COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE PROCTOR TEST, ASTM D 1557 WITH A TAMPING ROLLER, A PNEUMATIC-TIRED ROLLER, OR WITH A VIBRATORY MACHINE OR ANY COMBINATION OF THE ABOVE. THE TOP LAYER SHALL BE GIVEN A FINAL ROLLING WITH A THREE-WHEEL OR TANDEM ROLLER.

3.6 FINISH GRADING:

- A. PERFORM ALL GRADING TO PROVIDE SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL BE COMPATIBLE WITH ALL SURROUNDING TOPOGRAPHY AND STRUCTURES.
- B. UTILIZE SATISFACTORY FILL MATERIALS RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILLS, EMBANKMENTS AND FOR THE REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.
- C. ACHIEVE FINISHED GRADE BY PLACING A MINIMUM OF 6" OF AB 3 ON TOP OF SOIL STABILIZER FABRIC.
- D. REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL CONDITION.

END OF SECTION

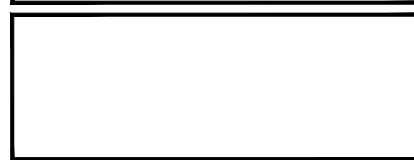


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PE CERTIFICATE OF AUTHORIZATION # E-571

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PLANS PREPARED FOR:

verticalbridge

PLANS PREPARED BY:

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US-KS-5112 RED BUD LAKE

MDG LOCATION ID:
TBD

SITE ADDRESS:
2200 BLOCK FAIR RD
ABILENE, KS 67410

SHEET DESCRIPTION: SPECIFICATIONS (4 OF 7)	SHEET #: SP-1.3
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FENCES AND GATES

PART 1: GENERAL

1.1 SUMMARY:

A. PROVIDE FENCING AND GATES INCLUDING ALL ASSOCIATED POSTS, RAILS, BRACES, TERMINAL POSTS, AND RELATED MATERIALS AS SHOWN ON DRAWINGS.

1. TYPE A: GALVANIZED CHAIN LINK FENCING AND GATES
2. TYPE B: GALVANIZED CHAIN LINK FENCING AND GATES WITH BARBED WIRE
3. TYPE C: TREATED WOOD FENCING AND GATES
4. MATCH EXISTING FENCE

B. TERMINOLOGY:

1. CHAIN LINK CLASSIFICATION: GALVANIZED (ZINC COATED).
2. TREATED LUMBER: TREATED LUMBER SHALL BE "ACQ" OR APPROVED EQUAL. CCA WILL NOT BE ACCEPTED.
3. O.D.: OUTSIDE DIMENSION

1.2 QUALITY ASSURANCE:

A. COMPLY WITH GOVERNING CODES AND REGULATIONS.

B. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS, WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS.

1.3 SCHEDULING AND SEQUENCING:

A. CERTAIN PORTIONS OF THE WORK MAY BE SPECIFIED TO BE COMPLETED AND OPERATIONAL PRIOR TO COMPLETION OF ALL WORK. SEQUENCE AND PROPERLY PROTECT EQUIPMENT TO PREVENT CONTAMINATION OR DAMAGE TO EQUIPMENT IN ADJACENT WORK AREAS.

B. STORAGE AND PROTECTION: STORE MATERIALS A MINIMUM OF 12" ABOVE GROUND.

PART 2A: PRODUCTS – CHAIN LINK FENCES AND GATES

2A.1 PRODUCTS:

A. FENCE FABRIC, POSTS, TENSION WIRE, CORNER POSTS, AND APPURTENANCES SHALL CONFORM TO THE ASTM CODES AND STANDARDS FOR THE APPROPRIATE TYPE OF MATERIALS AS LISTED.

B. MATERIALS SHALL BE UNIFORM, CONSISTENT, AND MEET THE FOLLOWING REQUIREMENTS.

1. FENCE FABRIC: 6'-0" HIGH (UNLESS NOTED OTHERWISE), HEAVY GALVANIZED CHAIN LINK FENCE CONFORMING TO ASTM A392, CLASS 2, OF 2" MESH 9 GAGE WIRE (0.148" DIAMETER), WITH THE TOP SELVAGE BARBED AND THE BOTTOM KNUCKLED.
2. LINE POSTS: FOR FABRIC UP TO AND INCLUDING 6'-0" IN HEIGHT, LINE POSTS SHALL BE GALVANIZED SCHEDULE 40 PIPE WITH 1.90" O.D. FOR FABRIC MORE THAN 8'-0" HIGH (IF REQUIRED TO MATCH EXISTING OR UNUSUAL SITE CONDITIONS), LINE POSTS SHALL BE GALVANIZED SCHEDULE 40 PIPE WITH 2.375" O.D. COMPLY WITH ASTM F 1083.3.
3. END, CORNER, AND PULL POSTS: 2.375" O.D. GALVANIZED SCHEDULE 40 PIPE UP TO 6'-0" AND 2.875" O.D. FOR FENCES OVER 6'-0". COMPLY WITH ASTM F 1083.
4. GATE POSTS: GALVANIZED SCHEDULE 40 PIPE WITH 2.875" O.D. COMPLY WITH ASTM F 1083.
5. BRACE RODS (LOCATED ON EACH SIDE OF GATES AND EACH SIDE AT CORNERS): 1.66" O.D. GALVANIZED SCHEDULE 40.
6. TRUSS RODS/CROSS BRACING: 3/8" DIAMETER DIAGONAL BARS WITH TURNBUCKLE.
7. TENSION WIRE: 7 GA. US STEEL WIRE GALVANIZED PER ASTM A116 COATING CLASS III ATTACHED 1" BELOW TOP SELVAGE AND 2'-0" ABOVE BOTTOM SELVAGE OF FABRIC BY MEANS OF HOG RINGS AT 24" O.C.
8. APPURTENANCES SUCH AS BRACE BANDS, TENSION BANDS AND BARS: FABRICATED OF 1/8" BY 7/8" GALVANIZED STEEL WITH GALVANIZED STEEL CARRIAGE BOLTS AND NUTS PER ASTM A123. TENSION BARS SHALL BE 1/4" BY 3/4" GALVANIZED STEEL BAR PER ASTM A153.
9. FABRIC TIES: CLASS I GALVANIZED STEEL WIRE NO LESS THAN 9 GA.
10. POST TOPS: PROVIDED FOR EACH POST. MATERIALS SHALL BE PRESSED STEEL OR MALLEABLE IRON THAT PROVIDES WATERTIGHT CLOSURE CAP FOR TUBULAR POSTS AND SHALL BE GALVANIZED PER ASTM A153.

11. BARBED WIRE: BARBED WIRE SHALL CONSIST OF DOUBLE STRANDED, 12-1 1/2 GAGE O.C. THE TOP 1'-0" WIRE ASTM A121, CLASS 3 WITH 4 POINT BARBS SPACED 5" OFF THE FENCE, SHALL CONSIST OF 3 STRANDS OF BARBED WIRE ATTACHED TO A 45 DEGREE ANGLE WITH HEAVY PRESSED ARMS CAPABLE OF WITHSTANDING, WITHOUT FAILURE 250 POUNDS DOWNWARD PULL AT THE OUTERMOST END OF THE ARM.
12. GATES
 - a. GATE MATERIALS SUCH AS FABRIC, BOLTS, NUTS, AND TENSION BARS, SHALL BE CONSISTENT WITH FENCE MATERIALS. GATES SHALL CONSIST OF BOTH SINGLE AND DOUBLE SWING GATES AS SHOWN ON THE DRAWINGS.
 - b. GATES SHALL BE MANUALLY OPERATED.
 - c. GATE FRAMES SHALL BE 1.90" O.D. PIPE TO BE FURNISHED WITH ALL NECESSARY FITTINGS, INCLUDING HEAVY DUTY COMMERCIAL DOUBLE GATE LATCH SIMILAR OR EQUAL TO DAC INDUSTRIES #4000.

PART 2B PRODUCTS: WOOD FENCES AND GATES

2B.1 PRODUCTS:

A. FENCE MATERIALS, INCLUDING POSTS, RAILS, CORNER POSTS, AND PICKETS SHALL BE AS FOLLOWS:

1. END CORNER, GATE, AND PULL POSTS 8'-0" HIGH OR LESS SHALL BE 2 1/2" NPS SCHEDULE 40 GALVANIZED STEEL PIPE PER ASTM A120. (OUTSIDE DIAMETER OF 2.875")
2. LINE POSTS UP TO 8'-0" HIGH, SHALL BE 2" NPS GALVANIZED COLD-FORMED AND WELDED STEEL PIPE COMPLYING WITH ASTM F 1043 WITH AN OUTSIDE DIAMETER OF 2.375" OR PER ASTM A120.
3. TOP, MIDDLE, AND BOTTOM RAILS SHALL BE 2'-0" x 4" TREATED LUMBER
4. PICKETS SHALL BE 1" x 6" TREATED LUMBER

B. TREATED LUMBER

1. ALL ABOVE GROUND MATERIALS SHALL BE TREATED WITH A MINIMUM OF .25 POUNDS OF PRESERVATIVE PER CUBIC FOOT OF MATERIAL.
2. TREATMENT FOR LUMBER SHALL BE APPROVED BY ALL GOVERNING BODIES.

C. GATES:

1. MANUALLY OPERATED WOOD GATES SHALL BE CONSTRUCTED WITH STEEL FRAME AND WOOD PICKETS. GATES SHALL BE SINGLE OR DOUBLE SWING AS INDICATED ON DRAWINGS.

D. PIPE GRIP TIES: PROVIDE PIPE GRIP TIES OF RECOMMENDED SIZE FOR USE WITH STEEL POSTS SIMPSON PGT'S. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

PART 3: EXECUTION

3.1 INSTALLATION:

A. PHYSICAL LOCATIONS OF FEATURES SUCH AS FENCE LINES, GATES, TERMINAL POSTS SHALL BE PER THE PLANS.

B. INSTALL MATERIALS PER MANUFACTURER'S INSTRUCTIONS. COMPLY WITH ASTM F 567 FOR CHAIN LINK FENCES AND F 537 FOR WOOD FENCES. INSTALL MATERIALS WITH UNIFORM APPEARANCE. COORDINATE WITH OTHER SECTIONS.

C. PROVIDE A REASONABLY SMOOTH PROFILE AT FENCE LINE. BOTTOM OF FENCE SHALL NOT BE MORE THAN 2" ABOVE FINISHED GRADE. IF FENCE CROSSES EXTREME GRADE DEPRESSION, CONFORM THE FENCE TO THE GROUND CONTOUR, UNLESS NOTED OTHERWISE. CLOSE SPACE BELOW THE BOTTOM OF THE FENCE WITH ADDITIONAL FENCE MATERIALS WHILE MAINTAINING A UNIFORM TOP.

D. POST SPACING AND INSTALLATION

1. INSTALL LINE POSTS AND BRACE AT INTERVALS NOT TO EXCEED 10'-0" (8'-0" FOR WOOD FENCES). POSTS SHALL BE EVENLY SPACED. LOCATE CORNER AND TERMINAL POSTS PER DRAWINGS. INSTALL CORNER POSTS WHERE CHANGES IN GRADE EXCEED 30 DEGREES.
2. SET POSTS VERTICALLY IN CYLINDRICAL CONCRETE FOUNDATION PER THE SCHEDULE IN TABLE 1 AND IN ACCORDANCE WITH ASTM F567.

TABLE 1: LINE, TERMINAL, AND GATE POST INSTALLATION SCHEDULE

	FOUNDATION DIAMETER	FOUNDATION DEPTH	POST EMBEDMENT
LINE POST	0'-10"	3'-6"	3'-0"
TERMINAL POST	1'-0"	3'-6"	3'-0"
GATE POSTS	1'-6"	4'-0"	3'-6"

3. TOP SURFACE OF THE CONCRETE FOUNDATION SHALL BE SMOOTH 1/2" CROWN, SLOPING AWAY FROM THE POST AND BE A MINIMUM OF 4" BELOW GRADE. THE POST SHALL BE 6" FROM THE BOTTOM OF THE CONCRETE POUR.

4. HOLES MAY BE HAND AUGURED OR DRILLED. IF ROCK IS ENCOUNTERED, DRILL MIN. 12" FOR LINE POSTS AND 18" FOR CORNER, GATE, OR TERMINAL POSTS. DRILL HOLES 1" LARGER THAN SIZES IN TABLE 1. IF SOLID ROCK IS BELOW SOIL OVERBURDEN, DRILL TO FULL DEPTH REQUIRED, EXCEPT PENETRATION INTO ROCK NEED NOT EXCEED MINIMUM DEPTHS SPECIFIED.

E. SETTING POSTS

1. REMOVE ANY LOOSE AND FOREIGN MATERIALS FROM THE SIDES AND BOTTOMS OF THE HOLES; MOISTEN SOIL PRIOR TO PLACING THE CONCRETE. CENTER AND ALIGN POSTS, TAMP TO CONSOLIDATE, AND SECURE UNTIL CONCRETE IS FULLY CURED.
2. KEEP CONCRETE SURFACES MOIST FOR AT LEAST 7 DAYS AFTER PLACEMENT
3. POSTS SET IN SLEEVED HOLES SHALL BE GROUTED IN PLACE USING A NON-SHRINK PORTLAND CEMENT GROUT APPROVED BY THE ENGINEER.
4. PRIOR TO PLACING COMPONENTS SUCH AS FABRIC, RAILS, TENSION WIRE, AND GATES, VERIFY THAT THE CONCRETE HAS REACHED AT LEAST 75% OF ITS DESIGN STRENGTH AS PRESCRIBED ON THE PLAN DETAILS, OR HAS CURED A MINIMUM OF 7 DAYS AFTER SETTING THE POSTS.

F. BRACING (CHAIN LINK FENCE ONLY)

1. INSTALL TENSION WIRES PARALLEL TO THE LINE OF FABRIC BY WEAVING NO LESS THAN 7 GA. WIRE OF THE APPROPRIATE TYPE THROUGH FABRIC AND TYING TO EACH POST. INSTALL TENSION WIRE BEFORE STRETCHING FABRIC.
2. INSTALL HORIZONTAL PIPE BRACE AT MID-HEIGHT ON EACH SIDE OF TERMINAL POSTS. FIRMLY ATTACH WITH FITTINGS. INSTALL DIAGONAL TRUSS RODS AT THESE POINTS. ADJUST TRUSS ROD, ENSURING POSTS REMAIN PLUMB.

G. INSTALLING FABRIC (CHAIN LINK FENCE ONLY)

1. INSTALL THE CHAIN LINK FENCE FABRIC SO THAT THE POSTS ARE ENCLOSED. STRETCH THE FABRIC TAUT, APPROXIMATELY 2" ABOVE THE GROUND, AND SECURELY TO THE POSTS.
2. CUT FABRIC AND ATTACH EACH SPAN INDEPENDENTLY AT ALL TERMINAL AND CORNER POSTS. USE STRETCHER BARS WITH FABRIC BANDS SPACED AT MAX. 5" INTERVALS TO FASTEN FABRIC TO TERMINAL POSTS. USE TIE WIRE, METAL BANDS, OR OTHER APPROVED MATERIAL ATTACHED AT MAXIMUM 15" INTERVALS TO FASTEN FABRIC TO LINE POSTS, TOP RAIL OR BOTTOM TENSION WIRE.

H. INSTALLING GATES

1. INSTALL GATES ACCORDING TO THE LOCATIONS, TYPE, AND SIZE INDICATED ON THE PLANS.
2. GATES SHALL BE BRACED AND TRUSSED TO PREVENT SAGGING, BUCKLING, AND WEAVING, AND COVERED WITH SAME FABRIC AS THE FENCE, UNLESS NOTED OTHERWISE. FIXED END RATCHET BANDS SHALL BE FURNISHED FOR FASTENING. FURNISH GATES WITH ALL FITTINGS AND HARDWARE REQUIRED. HEAVY DUTY COMMERCIAL LATCHES PROVIDED FOR USE WITH PADLOCK AND HINGES SHALL ALLOW 180 DEGREE SWING. PROVIDE 3/8" DIAMETER CROSSBRACING.
3. INSTALL GATES PLUMB, LEVEL, AND SECURE FOR THE FULL OPENING WITHOUT INTERFERENCES
4. INSTALL ALL ITEMS PER MANUFACTURER'S RECOMMENDATIONS. INSPECT ALL PARTS AND ATTACHMENTS FOR DEFECTS, AND INSTALL, LUBRICATE, AND ADJUST EQUIPMENT TO ENSURE SMOOTH OPERATION.
5. INSTALL (WELD TO GATE FRAME) (2) 8" SECTIONS (ONE PER GATE) OF 1/4" NOMINAL WELDED, GRADE 30 MINIMUM GALVANIZED STEEL CHAIN JUST BELOW LATCH FOR PADLOCKS. VERIFY INSIDE DIMENSIONS OF CHAIN LINK WILL RECEIVE STANDARD PADLOCKS.

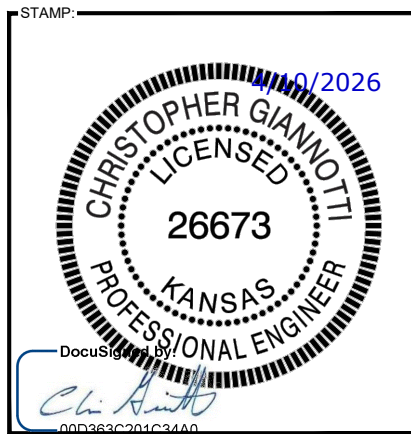
I. MISCELLANEOUS INSTALLATION (CHAIN LINK FENCE)

1. USE U-SHAPED TIE WIRES, CONFORMING TO THE DIAMETERS OF PIPE, THAT CLASP THE PIPE AND FABRIC FIRMLY WITH ENDS TWISTED AT LEAST 2 FULL TURNS.
2. INSTALL NUTS FOR FASTENERS ON TENSION BANDS AND HARDWARE BOLTS ON THE SIDE OF THE FENCE OPPOSITE THE FABRIC. THE ENDS OF BOLTS, ONCE SECURE AND CHECKED FOR SMOOTH OPERATION, SHALL BE PEENED TO PREVENT REMOVAL OF NUTS.

3.2 PROTECTION:

- A. A GUARANTEE SHALL BE FURNISHED FOR ALL MATERIALS, INSTALLATION, AND WORKMANSHIP TO BE FREE OF DEFECTS FOR A PERIOD OF 1 YEAR FROM THE DATE OF ACCEPTANCE UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS. ANY DEFECT IN INSTALLATION OR WORKMANSHIP SHALL BE REPAIRED, AND/OR REPLACED WITHOUT COST TO THE OWNER.
- B. REPAIR COATINGS DAMAGED IN THE FIELD AS RECOMMENDED BY THE MANUFACTURER.

END OF SECTION



DocuSign by: *Ch. Giannotti*

00D363C201C3440

ENGINEERING LICENSE:

STATE OF KANSAS

PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
C/J	CHRISTOPHER GIANNOTTI 26673	CIVIL
P/D	PATRICK J. DAVIS 25097	CIVIL
SDK	SHELTON D. KEISLING 13654	ELECTRICAL
MHCM	MARIA H.C. MARTINEZ 24992	ELECTRICAL
TMS	TERRANCE M. SUPER 9250	ELECTRICAL



PLANS PREPARED FOR:



PLANS PREPARED BY:



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ISSUED FOR CONSTRUCTION		04/10/26	AWD	0

APPLICANT SITE NAME:

US-KS-5112 RED BUD LAKE

MDG LOCATION ID:

TBD

SITE ADDRESS:

2200 BLOCK FAIR RD
ABILENE, KS 67410

SHEET DESCRIPTION:

SPECIFICATIONS (5 OF 7)

SHEET #:

SP-1.4

ELECTRICAL

PART 1: GENERAL

1.1 GENERAL CONDITIONS:

- A. THE CONTRACTOR SHALL INSPECT THE SITE WHERE THIS WORK IS TO BE PERFORMED AND FULLY FAMILIARIZE HIMSELF WITH ALL CONDITIONS RELATED TO THIS PROJECT.
- B. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND LICENSES AND SHALL MAKE ALL DEPOSITS AND PAY ALL FEES REQUIRED FOR THE PERFORMANCE OF WORK UNDER THIS SECTION.
- C. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWINGS SHALL NOT BE SCALED TO DETERMINE DIMENSIONS.

1.2 LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES:

- A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, AND ALL APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES.

1.3 REFERENCES:

- A. THE PUBLICATIONS LISTED BELOW FORM PART OF THIS SPECIFICATION. EACH PUBLICATION SHALL BE THE LATEST REVISION AND ADDENDUM IN EFFECT ON THE DATE THIS SPECIFICATION IS ISSUED FOR CONSTRUCTION UNLESS NOTED OTHERWISE. EXCEPT AS MODIFIED BY THE REQUIREMENTS SPECIFIED HEREIN OR THE DETAILS OF THE DRAWINGS, WORK INCLUDED IN THIS SPECIFICATION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THESE PUBLICATIONS.

1. ANSI/IEEE (AMERICAN NATIONAL STANDARDS INSTITUTE)
2. IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS)
3. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS)
4. ICEA (INSULATED CABLE ENGINEERS ASSOCIATION)
5. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)
6. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)
7. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION)
8. UL (UNDERWRITERS LABORATORIES, INC.)

1.4 SCOPE OF WORK:

- A. WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL AND ASSOCIATED SERVICES REQUIRED TO COMPLETELY CONSTRUCT AND LEAVE READY FOR OPERATION SYSTEMS AS SHOWN ON THE DRAWINGS AND HEREIN DESCRIBED.
- B. ALL ELECTRICAL EQUIPMENT UNDER THIS CONTRACT SHALL BE PROPERLY TESTED, ADJUSTED, AND ALIGNED BY THE CONTRACTOR.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATING, DRAINING, TRENCHES, BACKFILLING, AND REMOVAL OF EXCESS DIRT.
- D. THE CONTRACTOR SHALL FURNISH TO THE OWNER, CERTIFICATES OF FINAL INSPECTION AND APPROVAL FROM THE INSPECTION AUTHORITIES HAVING JURISDICTION.

PART 2: PRODUCTS

2.1 GENERAL:

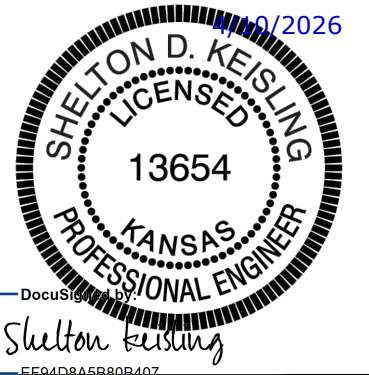
- A. ALL ITEMS OF MATERIALS AND EQUIPMENT SHALL BE NEW, FREE FROM DEFECTS AND OF THE BEST QUALITY NORMALLY USED FOR THE PURPOSE IN GOOD COMMERCIAL PRACTICE.
- B. ALL MATERIALS AND EQUIPMENT SHALL BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED.
- C. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.
- D. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING RATING EQUAL TO OR GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 10,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT.

2.2 MATERIALS AND EQUIPMENT:

- A. CONDUIT:
 1. RIGID GALVANIZED STEEL CONDUIT (RGS) SHALL BE HOT-DIP GALVANIZED INSIDE AND OUTSIDE INCLUDING ENDS AND THREADS AND ENAMELED OR LACQUERED INSIDE IN ADDITION TO GALVANIZING.
 2. FLEXIBLE METAL CONDUIT SHALL BE GALVANIZED, ZINC-COATED STEEL, PVC COATED FOR OUTDOOR APPLICATIONS.

3. CONDUIT CLAMPS, STRAPS AND SUPPORTS SHALL BE STEEL OR MALLEABLE IRON. ALL FITTINGS SHALL BE COMPRESSION TYPE AND WATERTIGHT.
 4. NON-METALLIC CONDUIT AND FITTINGS SHALL BE SCHEDULE 40 PVC, HEAVY-WALL RIGID WITH SOLVENT-CEMENT-TYPE JOINTS AS RECOMMENDED BY THE MANUFACTURER.
- B. WIRE AND CABLE:
 1. WIRE AND CABLE SHALL BE FLAME-RETARDANT, MOISTURE AND HEAT RESISTANT THERMOPLASTIC, SINGLE CONDUCTOR, COPPER, TYPE THHN/THWN, 600 VOLT, SIZES AS INDICATED, #12 AWG MINIMUM.
 2. #10 AWG AND SMALLER CONDUCTORS SHALL BE SOLID AND #8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED.
 3. SOLDERLESS, PRESSURE-TYPE CONNECTORS CONSTRUCTED OF HIGH-STRENGTH, NON-CORRODIBLE, TIN-PLATED COPPER DESIGNED TO FURNISH HIGH-PULLOUT STRENGTH AND HIGH CONDUCTIVITY JOINTS SHALL BE USED.
 4. SUPPORT GRIPS SHALL BE SINGLE WEAVE, CLOSED MESH, HIGH-GRADE, NON-MAGNETIC, TIN-COATED BRONZE CAPABLE OF SUPPORTING TEN TIMES THE CABLE DEAD WEIGHT, HUBBELL KELLEMS OR APPROVED EQUAL.
 - C. DISCONNECT SWITCHES:
 1. DISCONNECT SWITCHES SHALL BE HEAVY DUTY, DEAD-FRONT, QUICK-MAKE, QUICK-BREAK, EXTERNALLY OPERABLE, HANDLE LOCKABLE AND INTERLOCKED WITH COVER IN CLOSED POSITION, RATING AS INDICATED, UL LABELED FURNISHED IN NEMA 3R ENCLOSURE, SQUARE D CLASS 3110 OR APPROVED EQUAL.
 - D. SYSTEM GROUNDING:
 1. GROUNDING CONDUCTOR SHALL BE SOLID TINNED BARE COPPER, SIZE AS INDICATED, EXCEPT ABOVE GROUND GROUNDING CONDUCTORS SHALL BE STRANDED INSULATED.
 2. GROUND BUSSES SHALL BE GALVANIZED STEEL BARS OF RECTANGULAR CROSS SECTION.
 3. CONNECTORS SHALL BE HIGH-CONDUCTIVITY, HEAVY DUTY, LISTED AND LABELED AS GROUNDING CONNECTORS FOR THE MATERIALS USED. USE TWO-HOLE COMPRESSION LUGS WITH HEAT SHRINK FOR MECHANICAL CONNECTIONS.
 4. EXOTHERMIC WELDED CONNECTIONS SHALL BE PROVIDED IN KIT FORM AND SELECTED FOR THE SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS TO BE CONNECTED.
 5. GROUND RODS SHALL BE COPPER-CLAD STEEL WITH HIGH-STRENGTH STEEL CORE AND ELECTROLYTIC-GRADE COPPER OUTER SHEATH, MOLTEN WELDED TO CORE, 3/4" x 10'-0".
 - E. OTHER MATERIALS:
 1. THE CONTRACTOR SHALL PROVIDE OTHER MATERIALS, THOUGH NOT SPECIFICALLY DESCRIBED, WHICH ARE REQUIRED FOR A COMPLETELY OPERATIONAL SYSTEM AND PROPER INSTALLATION OF THE WORK.

STAMP:



DocuSign by: *Shelton Keisling*

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ENGINEERING LICENSE:
STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
CC CHRISTOPHER GIANNOTTI 28673		CIVIL
PJD PATRICK J. DAVIS 25087		CIVIL
SDK SHELTON D. KEISLING 13654		ELECTRICAL
MHCM MARIA H.C. MARTINEZ 24992		ELECTRICAL
TMS TERRANCE M. SUPER 9250		ELECTRICAL



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US-KS-5112 RED BUD LAKE

MDG LOCATION ID:
TBD

SITE ADDRESS:
**2200 BLOCK FAIR RD
ABILENE, KS 67410**

SHEET DESCRIPTION: SPECIFICATIONS (6 OF 7)	SHEET #: SP-2.0
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PART 3: EXECUTION

3.1 GENERAL:

- A. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- B. EQUIPMENT SHALL BE TIGHTLY COVERED AND PROTECTED AGAINST DIRT OR WATER, AND AGAINST CHEMICAL OR MECHANICAL INJURY DURING INSTALLATION AND CONSTRUCTION PERIODS.

3.2 LABOR AND WORKMANSHIP:

- A. ALL LABOR FOR THE INSTALLATION OF MATERIALS AND EQUIPMENT FURNISHED FOR THE ELECTRICAL SYSTEM SHALL BE DONE BY EXPERIENCED MECHANICS OF THE PROPER TRADES.
- B. ALL ELECTRICAL EQUIPMENT FURNISHED SHALL BE ADJUSTED, ALIGNED AND TESTED BY THE CONTRACTOR AS REQUIRED TO PRODUCE THE INTENDED PERFORMANCE.
- C. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED EQUIPMENT, REMOVE ALL LABELS AND ANY DEBRIS, CRATING OR CARTONS AND LEAVE THE INSTALLATION FINISHED AND READY FOR OPERATION.

3.3 COORDINATION:

- A. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRICAL ITEMS WITH THE OWNER-FURNISHED EQUIPMENT DELIVERY SCHEDULE TO PREVENT UNNECESSARY DELAYS IN THE TOTAL WORK.

3.4 INSTALLATION:

A. CONDUIT:

1. ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT AS HEREIN SPECIFIED. NO CONDUIT OR TUBING OF LESS THAN 3/4" NOMINAL SIZE SHALL BE USED.
2. PROVIDE RGS CONDUIT FOR ALL EXPOSED, EXTERIOR CONDUIT.
3. PROVIDE SCHEDULE 40 PVC OR RGS CONDUIT BELOW GRADE, 1" MINIMUM, UNLESS NOTED OTHERWISE. ALL 90 DEGREE BENDS TO ABOVE GRADE SHALL BE RGS. MINIMUM BURIAL DEPTH SHALL BE 24" CLEAR TO TOP OF CONDUIT, UNLESS NOTED OTHERWISE.
4. USE GALVANIZED FLEXIBLE STEEL CONDUIT WHERE DIRECT CONNECTION IS NOT DESIRABLE FOR REASONS OF EQUIPMENT MOVEMENT, VIBRATION, OR FOR EASE OF MAINTENANCE. USE LIQUIDTIGHT, PVC COATED FLEXIBLE METAL CONDUIT FOR OUTDOOR APPLICATIONS.
5. INSTALL GALVANIZED FLEXIBLE STEEL CONDUIT AT ALL POINTS OF CONNECTION TO EQUIPMENT MOUNTED ON SUPPORTS TO ALLOW FOR EXPANSION AND CONTRACTION.
6. A RUN OF CONDUIT BETWEEN BOXES OR FITTINGS SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF FOUR QUARTER-BENDS INCLUDING THOSE BENDS LOCATED IMMEDIATELY AT THE BOX OR FITTING. THE RADIUS OF BENDS SHALL NEVER BE SHORTER THAN THAT OF THE CORRESPONDING TRADE ELBOW.
7. WHERE CONDUIT HAS TO BE CUT IN THE FIELD, IT SHALL BE CUT SQUARE WITH A PIPE CUTTER USING CUTTING KNIVES.
8. ALL CONDUITS SHALL BE SWABBED CLEAN BY PULLING AN APPROPRIATE SIZE MANDREL THROUGH THE CONDUIT BEFORE INSTALLATION OF WIRE OR CABLE. CLEAR ALL BLOCKAGES AND REMOVE BURRS, DIRT, AND DEBRIS.
9. INSTALL PULL STRINGS IN ALL EMPTY CONDUITS. IDENTIFY PULL STRINGS AT EACH END WITH ITS DESTINATION.
10. PROVIDE INSULATED GROUNDING BUSHINGS FOR ALL CONDUITS STUBBED INTO EQUIPMENT ENCLOSURES OR STUBBED OUT FOR FUTURE USE BY OTHERS.
11. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL CONDUITS DURING CONSTRUCTION. TEMPORARY OPENINGS IN THE CONDUIT SYSTEM SHALL BE PLUGGED OR CAPPED TO PREVENT ENTRANCE OF MOISTURE OR FOREIGN MATTER. CONTRACTOR SHALL REPLACE ANY CONDUITS CONTAINING FOREIGN MATERIALS THAT CANNOT BE REMOVED.
12. INSTALL 2" ORANGE DETECTABLE TAPE 12" ABOVE ALL UNDERGROUND CONDUIT AND WIRE.
13. CONDUITS SHALL BE INSTALLED IN SUCH A MANNER AS TO INSURE AGAINST COLLECTION OF TRAPPED CONDENSATION.

B. WIRE AND CABLE:

- 1. ALL POWER WIRING SHALL BE COLOR CODED AS FOLLOWS:

DESCRIPTION	120/240V	208Y/120V	480Y/277V
PHASE A	BLACK	BLACK	BROWN
PHASE B	RED	RED	ORANGE
PHASE C		BLUE	YELLOW
NEUTRAL	WHITE	WHITE	GRAY
GROUND	GREEN	GREEN	GREEN

2. SPLICES SHALL BE MADE ONLY AT OUTLETS, JUNCTION BOXES, OR ACCESSIBLE RACEWAYS WITH PRESSURE-TYPE CONNECTORS.
3. PULLING LUBRICANTS SHALL BE SOAPSTONE POWDER, POWDERED TALC, OR A COMMERCIAL PULLING COMPOUND. NO SOAP SUDS, SOAP FLAKES, OIL, OR GREASE SHALL BE USED, AS THESE MAY BE HARMFUL TO CABLE INSULATION. CONTRACTOR SHALL USE NYLON OR HEMP ROPE FOR PULLING CABLE TO AVOID SCORING THE CONDUIT.
4. CABLES SHALL BE NEATLY TRAINED, WITHOUT INTERLACING, AND BE OF SUFFICIENT LENGTH IN ALL BOXES, EQUIPMENT, ETC. TO PERMIT MAKING A NEAT ARRANGEMENT. CABLES SHALL BE SECURED IN A MANNER TO AVOID TENSION ON CONDUCTORS OR TERMINALS, AND SHALL BE PROTECTED FROM MECHANICAL INJURY AND FROM MOISTURE. SHARP BENDS OVER CONDUIT BUSHINGS ARE PROHIBITED. DAMAGED CABLES SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

C. DISCONNECT SWITCHES:

1. INSTALL DISCONNECT SWITCHES LEVEL AND PLUMB. CONNECT TO WIRING SYSTEM AND GROUND AS INDICATED.

D. GROUNDING:

1. ALL METALLIC PARTS OF ELECTRICAL EQUIPMENT WHICH DO NOT CARRY CURRENT SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
2. PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEMS INDICATED WITH ASSEMBLY OF MATERIALS, INCLUDING GROUNDING ELECTRODES, BONDING JUMPERS AND ADDITIONAL ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
3. ROUTE GROUNDING CONNECTIONS AND CONDUCTORS TO GROUND IN THE SHORTEST AND STRAIGHTEST PATHS POSSIBLE TO MINIMIZE TRANSIENT VOLTAGE RISES.
4. TIGHTEN GROUNDING AND BONDING CONNECTORS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES FOR CONNECTORS AND BOLTS. WHERE MANUFACTURER'S TORQUING REQUIREMENTS ARE NOT AVAILABLE, TIGHTEN CONNECTIONS TO COMPLY WITH TIGHTENING TORQUE VALUES SPECIFIED IN UL 486A TO ASSURE PERMANENT AND EFFECTIVE GROUNDING.
5. ALL UNDERGROUND GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
6. ALL GROUND CONNECTIONS SHALL BE INSPECTED FOR TIGHTNESS. EXOTHERMIC-WELDED CONNECTIONS SHALL BE APPROVED BY THE CONSTRUCTION INSPECTOR BEFORE BEING PERMANENTLY CONCEALED.
7. APPLY CORROSION-RESISTANT FINISH TO FIELD CONNECTIONS, AND PLACES WHERE FACTORY APPLIED PROTECTIVE COATINGS HAVE BEEN DESTROYED. USE COPPER-BASED "NO-OX" OR APPROVED EQUAL.
8. A SEPARATE, CONTINUOUS, INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUITS
9. BOND ALL INSULATED GROUNDING BUSHINGS WITH A BARE #6 AWG GROUNDING CONDUCTOR TO A GROUND BUS OR GROUNDING LUG IN ENCLOSURE.
10. DIRECT BURIED GROUND CONDUCTORS SHALL BE INSTALLED AT A NOMINAL DEPTH OF 30" BELOW GRADE, UNLESS NOTED OTHERWISE.
11. ALL GROUNDING CONDUCTORS EMBEDDED IN OR PENETRATING CONCRETE SHALL BE INSULATED OR INSTALLED IN PVC CONDUIT.
12. INSTALL ELECTROLYTIC GROUNDING SYSTEM IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REMOVE SEALING TAPE FROM LEACHING AND BREATHER HOLES. INSTALL PROTECTIVE BOX FLUSH WITH GRADE.
13. DRIVE GROUND RODS UNTIL TOPS ARE 30" BELOW FINAL GRADE.
14. GROUNDING CONDUCTOR TO EQUIPMENT GROUND LUGS:
 - a. BOLTED TO EQUIPMENT HOUSING WITH STAINLESS STEEL BOLTS AND LOCK WASHERS.
 - b. ALL EQUIPMENT TO BE GROUNDED SHALL BE FREE OF PAINT OR ANY OTHER MATERIAL COVERING BARE METAL AT THE POINT OF CONNECTION.

3.5 ACCEPTANCE TESTING:

- A. PROVIDE PERSONNEL AND EQUIPMENT, MAKE REQUIRED TESTS, AND SUBMIT TEST REPORTS UPON COMPLETION OF TESTS.
- B. WHEN MATERIAL AND/OR WORKMANSHIP IS FOUND NOT TO COMPLY WITH THE SPECIFIED REQUIREMENTS, THE NONCOMPLYING ITEMS SHALL BE REMOVED FROM THE JOBSITE AND REPLACED WITH ITEMS COMPLYING WITH THE SPECIFIED REQUIREMENTS PROMPTLY AFTER RECEIPT OF NOTICE OF SUCH NON-COMPLIANCE.

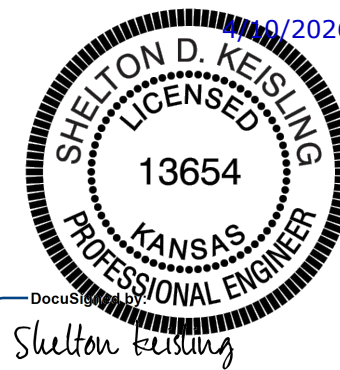
C. TEST PROCEDURES:

1. ALL FEEDERS SHALL HAVE THEIR INSULATION TESTED AFTER INSTALLATION, BUT BEFORE CONNECTION TO DEVICES. THE CONDUCTORS SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS. TESTING SHALL BE FOR ONE MINUTE USING 1000V DC. INVESTIGATE ANY VALUES LESS THAN 50 MEGAOHMS.
2. PRIOR TO ENERGIZING CIRCUITRY, TEST WIRING DEVICES FOR ELECTRICAL CONTINUITY AND PROPER POLARITY CONNECTIONS.
3. MEASURE AND RECORD VOLTAGES BETWEEN PHASES AND BETWEEN PHASE WIRES AND NEUTRALS. SUBMIT A REPORT OF MAXIMUM AND MINIMUM VOLTAGES.
4. PERFORM GROUND TEST TO MEASURE GROUND RESISTANCE OF GROUNDING SYSTEM USING THE IEEE STANDARD 3-POINT "FALL-OF-POTENTIAL" METHOD. PROVIDE PLOTTED TEST VALUES & LOCATION SKETCH. NOTIFY THE ENGINEER IMMEDIATELY IF MEASURED VALUE IS OVER 5 OHMS.

END OF SECTION

END OF SPECIFICATION

STAMP:



DocuSign by: *Shelton Keisling*

FE04DBA5B80B407

ENGINEERING LICENSE:
STATE OF KANSAS
PE CERTIFICATE OF AUTHORIZATION # E-571

ENGINEER:	PE#:	DISCIPLINE:
OC PJD CHRISTOPHER GIANNOTTI	28673 25087	CIVIL
SDK MHCM SHELTON D. KEISLING	13654 24992	ELECTRICAL
TMS TERRANCE M. SUPER	9250	ELECTRICAL

PLANS PREPARED FOR:



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TBD

SITE ADDRESS:

2200 BLOCK FAIR RD
ABILENE, KS 67410

SHEET DESCRIPTION:

SPECIFICATIONS
(7 OF 7)

SHEET #:

SP-2.1