

**COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

THE APPLICATION OF)
CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS)
AND SOUTHERN TOWERS BTS, LP FOR ISSUANCE) CASE NO. 2023-00337
OF A CERTIFICATE OF PUBLIC CONVENIENCE AND)
NECESSITY TO CONSTRUCT A WIRELESS)
COMMUNICATIONS FACILITY IN THE)
COMMONWEALTH OF KENTUCKY IN THE COUNTY)
OF CALLOWAY)

SITE NAME: KIRKSEY

* * * * *

**APPLICATION FOR
CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY
FOR CONSTRUCTION OF A WIRELESS COMMUNICATIONS FACILITY**

Cellco Partnership, d/b/a Verizon Wireless and Southern Towers BTS, LP (“Co-Applicants”), by counsel, pursuant to (i) KRS §§278.020, 278.040, 278.650, 278.665, and other statutory authority, and the rules and regulations applicable thereto, and (ii) the Telecommunications Act of 1996, respectfully submits this Application requesting issuance of a Certificate of Public Convenience and Necessity (“CPCN”) from the Kentucky Public Service Commission (“PSC”) to construct, maintain, and operate a Wireless Communications Facility (“WCF”) to serve the customers of the Applicant with wireless communications services.

In support of this Application, Co-Applicants respectfully provide and state the following information:

1. The complete name and address of the Co-Applicants:
 - a. Cellco Partnership, d/b/a Verizon Wireless, having a local address of 2902 Ring Road, Elizabethtown, KY, 42701.

b. Southern Towers BTS, LP, having a local address of 250 Signal Mountain Road, Suite B, Chattanooga, TN 37405

2. Co-Applicants:

a. Cellco Partnership, d/b/a Verizon Wireless is a Delaware general partnership and a copy of the Statement of Good Standing from Delaware, and the Certificate of Assumed Name is on file with the Secretary of State of Commonwealth of Kentucky and included as part of **Exhibit A**.

b. Southern Towers, BTS, LP is a Delaware limited partnership and a copy of the formulation document and the Statement of Good Standing from Delaware, and the Certificate of Authorization, which is on file with the Secretary of State of Commonwealth of Kentucky, are included as part of **Exhibit A**.

3. Co-Applicants propose construction of an antenna tower for communications services, which is to be located in an area outside the jurisdiction of a planning commission, and Applicant submits this application to the PSC for a certificate of public convenience and necessity pursuant to KRS §§ 278.020(1), 278.040, 278.650, 278.665, and other statutory authority.

4. The Co-Applicant operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. A copy of the Co-Applicant's FCC Registration and Licenses with Authorization to provide wireless services are attached to this Application or described as part of **Exhibit B**, and the facility will be constructed and operated in accordance with applicable FCC regulations.

5. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve the Co-Applicant's services to an area currently not served or not adequately served by the Co-Applicants by increasing coverage or

capacity and thereby enhancing the public's access to innovative and competitive wireless communications services. A statement from Co-Applicant's RF Design Engineer outlining said need is attached as **Exhibit R** along with Propagation Maps attached as **Exhibit R-a**. The WCF is an integral link in the Applicant's network design that must be in place to provide adequate coverage to the service area.

6. To address the above-described service needs, Co-Applicants propose to construct a WCF on east side of Fire Station Drive, Kirksey, KY 42054. (North Latitude: (36° 40' 52.46, West Longitude 88° 23' 53.22")), on a parcel of land located entirely within the county referenced in the caption of this application. The property on which the WCF will be located is owned by Robert Crick and Jimmie Louise Crick pursuant to a Deed recorded at Deed Book 809, Page 695 in the office of the County Clerk. The proposed WCF will consist of a 265-foot tall tower, with an approximately 5-foot tall lightning arrestor attached at the top, for a total height of 270-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of the Co-Applicant's radio electronics equipment and appurtenant equipment. The Applicant's equipment cabinet or shelter will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The WCF compound will be fenced and all access gate(s) will be secured. A description of the manner in which the proposed WCF will be constructed is attached as **Exhibit C** and **Exhibit D**.

7. A list of utilities, corporations, or persons with whom the proposed WCF is likely to compete along with a map showing the proposed location as well as the identified like facilities is attached as **Exhibit E**.

8. The site development plan and a vertical profile sketch of the WCF signed and sealed by a professional engineer registered in Kentucky depicting the tower height, as well as a

proposed configuration for the antennas of the Applicant has also been included as part of **Exhibit C**.

9. Foundation design plans signed and sealed by a professional engineer registered in Kentucky and a description of the standards according to which the tower was designed are included as part of **Exhibit D**.

10. Co-Applicants have considered the likely effects of the installation of the proposed WCF on nearby land uses and values and has concluded that there is no more suitable location reasonably available from which adequate services can be provided, and that there are no reasonably available opportunities to co-locate Applicant's antennas on an existing structure. When suitable towers or structures exist, Co-Applicant attempts to co-locate on existing structures such as communications towers or other structures capable of supporting Applicant's facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site. A statement from Co-Applicant, Cellco Partnership, d/b/a Verizon Wireless's RF Design Engineer outlining exploration of co-location opportunities is attached as **Exhibit R**.

11. A copy of the Application for Federal Aviation Administration's ("FAA") and the FAA Determination of No Hazard Extension are attached as **Exhibit F**.

12. A copy of the Kentucky Airport Zoning Commission ("KAZC") Application and the KAZC Approval to construct the tower are attached as **Exhibit G**.

13. A geotechnical engineering report was performed at the WCF site by GPD Group, Inc., 520 S. Main Street, Suite 2531, Akron, Ohio 44311, dated December 8, 2022 and is attached as **Exhibit H**. The name and address of the geotechnical engineering firm and the professional engineer registered in Kentucky who prepared the report are included as part of **Exhibit H and Exhibit S**.

14. Clear directions to the proposed WCF site from the County seat are attached as **Exhibit I**. The name and telephone number of the preparer of **Exhibit I** are included as part of this exhibit.

15. Applicant, pursuant to a written agreement, has acquired the right to use the WCF site and associated property rights. A copy of the agreement or an abbreviated agreement recorded with the County Clerk is attached as **Exhibit J**.

16. Personnel directly responsible for the design and construction of the proposed WCF are well qualified and experienced. The tower and foundation drawings for the proposed tower submitted as part of **Exhibit D** bear the signature and stamp of a professional engineer registered in the Commonwealth of Kentucky. All tower designs meet or exceed the minimum requirements of applicable laws and regulations. The identity and qualifications of each person directly responsible for design and construction of the proposed tower are contained in **Exhibit S**.

17. The Construction Manager for the proposed facility is Larry Rhoads and the identity and qualifications of each person directly responsible for design and construction of the proposed tower are contained in **Exhibit S**.

18. As noted on the Survey attached as part of **Exhibit C**, the surveyor has determined that the tower site and access easement are not within any flood hazard area per Flood Hazard Boundary Map, Community Panel Number 21035C0100C, Dated September 29, 2010.

19. **Exhibit K** includes a map drawn to an appropriate scale that shows the location of the proposed tower and identifies every owner of real estate within 500 feet of the proposed tower, every owner of real estate within 200 feet of the access road including intersection with the public street system and all abutting property owners (according to the records maintained by the County Property Valuation Administrator). Attached as **Exhibit L** is the Notification List with screen

shots of the PVA records verified and updated using the Calloway County PVA on October 5, 2023. **Exhibit K** also identifies every structure and every easement within 500 feet of the proposed tower or within 200 feet of the access road including intersection with the public street system.

20. Co-Applicants have sent certified notices every person who, according to the records of the County Property Valuation Administrator, owns property which is within 500 feet of the proposed tower or contiguous to the site property, by certified mail, return receipt requested, of the proposed construction. Each notified property owner has been provided with a map of the location of the proposed construction, the PSC docket number for this application, the address of the PSC, and informed of his or her right to request intervention. A list of the notified property owners, verified on October 5, 2023, using the Calloway County Kentucky Property Valuation Administration records and a copy of the form of the notice sent by certified mail to each landowner on October 5, 2023, are attached as **Exhibit L** and **Exhibit M**, respectively. Twenty-three (23) notices were sent to surrounding property owners; to date eighteen (18) notice green cards have been returned. USPS tracking indicates that 5 notices are still moving through the system. Copies of the mailed envelopes, returned green cards and USPS tracking are included in **Exhibit M**.

21. Co-Applicants have notified the applicable County Judge/Executive by certified mail, return receipt requested, of the proposed construction. This notice included the PSC docket number under which the application will be processed and informed the County Judge/Executive of his/her right to request intervention. A copy of this notice along with a copy of the mailed envelope and returned green card is attached as **Exhibit N**.

22. Notice signs meeting the requirements prescribed by 807 KAR 5:063, Section 1(2) that measure at least 2 feet in height and 4 feet in width and that contain all required language in

letters of required height, have been posted, one in a visible location on the proposed site and one on the nearest public road. Such signs shall remain posted for at least two weeks after filing of the Application, and a copy of the posted text is attached as **Exhibit O**.

23. A legal notice advertisement regarding the location of the proposed facility has been published in a newspaper of general circulation in the county in which the WCF is proposed to be located. A copy of the newspaper legal notice advertisement is attached as **Exhibit P**.

24. The area of the proposed facility is in the unincorporated area of Calloway County, Kentucky. The site is approximately 1.4 miles south of Kirksey, KY. The area is buffered by a tree row to the north and west. The area is predominated tilled, with areas of woods, rural in nature, with a scattering of residential properties. The terrain in this area is fairly flat. There is no zoning or Plan Commission in Calloway County. The general area where the proposed facility is proposed is open area and, removed a significant distance from any residential structures. The nearest residential structure is 444 feet from the proposed tower site.

25. The process that was used by the Co-Applicant's radio frequency engineers in selecting the site for the proposed WCF was consistent with the general process used for selecting all other existing and proposed WCF facilities within the proposed network design area. Co-Applicant's radio frequency engineers have conducted studies and tests in order to develop a highly efficient network that is designed to handle voice and data traffic in the service area. The engineers determined an optimum area for the placement of the proposed facility in terms of elevation and location to provide the best quality service to customers in the service area. A radio frequency design search area prepared in reference to these radio frequency studies was considered by the Co-Applicant when searching for sites for its antennas that would provide the coverage deemed necessary by the Co-Applicant. A map of the area in which the tower is proposed to be located

which is drawn to scale and clearly depicts the necessary search area within which the site should be located pursuant to radio frequency requirements is attached as **Exhibit Q**.

26. The tower must be located at the proposed location and proposed height to provide necessary service to wireless communications users in the subject area, as set out and documented in the RF Design Engineer's Statement of Need and Propagation Maps attached as **Exhibit R** and **Exhibit Ra**, respectively. The proposed tower will expand and improve voice and data service for Verizon Wireless customers.

27. Attached hereto as **Exhibit T** please find an Affidavit of Certification for all information contained in this application.

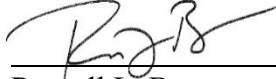
28. All Exhibits to this Application are hereby incorporated by reference as if fully set out as part of the Application.

29. All responses and requests associated with this Application may be directed to:

Russell L. Brown
Clark, Quinn, Moses, Scott & Grahn, LLP
320 North Meridian Street, Suite 1100
Indianapolis, IN 46204
Phone: (317) 637-1321
FAX: (317) 687-2344
Email: rbrown@clarkquinnlaw.com

WHEREFORE, Co-Applicants respectfully request that the PSC accept the foregoing Application for filing and, having met the requirements of KRS §§278.020(1), 278.650, and 278.665 and all applicable rules and regulations of the PSC, grant a Certificate of Public Convenience and Necessity to construct and operate the WCF at the location set forth herein.

Respectfully submitted,



Russell L. Brown

Clark, Quinn, Moses, Scott & Grahn, LLP

320 North Meridian Street, Suite 1100

Indianapolis, IN 46204

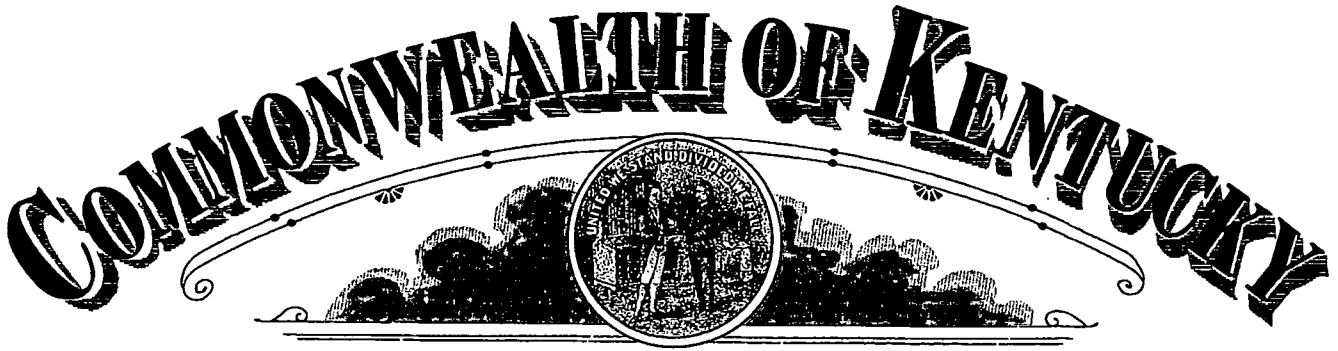
Phone: (317) 637-1321 / FAX: (317) 687-2344

Email: rbrown@clarkquinnlaw.com

Attorney for Cellco Partnership d/b/a Verizon Wireless

LIST OF EXHIBITS

- A Applicant Entity
- B FCC Registration and License Documentation
- C Site Development Plan:
 - 500' Vicinity Map Legal Descriptions
 - Flood Plain Certification Site Plan
 - Vertical Tower Profile
- D Tower and Foundation Design
- E Competing Utilities, Corporations, or Persons List
And Map of Like Facilities in Vicinity
- F FAA Application
- G KAZC Application
- H Geotechnical Report
- I Directions to WCF Site
- J Copy of Real Estate Agreement
- K 500' Radius and Abutters Map with Surveyor Certification
- L Notification Listing with PVA Verification
- M Copy of Property Owner Notification
- N Copy of County Judge/Executive notice
- O Copy of Posted Notices
- P Copy of Newspaper Legal Notice Advertisement
- Q Copy of Radio Frequency Design Search Area
- R Copy of RF Design Engineer State of Need
- Ra Propagation Maps
- S List of Qualified Professionals
- T Affidavit of Certification



Michael G. Adams
Secretary of State

Certificate

I, Michael G. Adams, Secretary of State for the Commonwealth of Kentucky, do hereby certify that the foregoing writing has been carefully compared by me with the original thereof, now in my official custody as Secretary of State and remaining on file in my office, and found to be a true and correct copy of

CERTIFICATE OF ASSUMED NAME OF VERIZON WIRELESS ADOPTED BY
GENERAL PARTNERS OF CELLCO PARTNERSHIP FILED JUNE 21, 2006.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my
Official Seal at Frankfort, Kentucky, this 10th day of May, 2023.



Michael G. Adams

Michael G. Adams
Secretary of State
Commonwealth of Kentucky
kdcoleman/0641227 - Certificate ID: 290787

COMMONWEALTH OF KENTUCKY
TREY GRAYSON
SECRETARY OF STATE



0641227.07

Dcornish
C226

Trey Grayson
Secretary of State
Received and Filed

06/21/2006 12:06:09 PM
Fee Receipt: \$20.00

CERTIFICATE OF ASSUMED NAME

This certifies that the assumed name of
Verizon Wireless

(Name under which the business will be conducted)

has been adopted by See Addendum

(Real name - KRS 365.015(1))

which is the "real name" of (YOU MUST CHECK ONE)

- | | |
|--|---|
| <input type="checkbox"/> a Domestic General Partnership | <input checked="" type="checkbox"/> a Foreign General Partnership |
| <input type="checkbox"/> a Domestic Registered Limited Liability Partnership | <input type="checkbox"/> a Foreign Registered Limited Liability Partnership |
| <input type="checkbox"/> a Domestic Limited Partnership | <input type="checkbox"/> a Foreign Limited Partnership |
| <input type="checkbox"/> a Domestic Business Trust | <input type="checkbox"/> a Foreign Business Trust |
| <input type="checkbox"/> a Domestic Corporation | <input type="checkbox"/> a Foreign Corporation |
| <input type="checkbox"/> a Domestic Limited Liability Company | <input type="checkbox"/> a Foreign Limited Liability Company |
| <input type="checkbox"/> a Joint Venture | |

organized and existing in the state or country of Delaware, and whose address is

One Verizon Way Basking Ridge NJ 07920

Street address, if any

City

State

Zip Code

The certificate of assumed name is executed by

NYNEX PCS Inc.

Jane A. Schapker
Signature
Jane A. Schapker-Assistant Secretary

Print or type name and title

June 15, 2006

Date

Signature

Print or type name and title

Date

Addendum

The full name of the Partnership is Cellco Partnership; a Delaware general partnership with its headquarters located One Verizon Way, Basking Ridge NJ 07920-1097.

General Partners of Cellco Partnership	Address
Bell Atlantic Cellular Holdings, L.P.	One Verizon Way Basking Ridge, NJ 07920
NYNEX PCS Inc.	One Verizon Way Basking Ridge, NJ 07920
PCSCO Partnership	One Verizon Way Basking Ridge, NJ 07920
GTE Wireless Incorporated	One Verizon Way Basking Ridge, NJ 07920
GTE Wireless of Ohio Incorporated	One Verizon Way Basking Ridge, NJ 07920
PCS Nucleus, L.P.	2999 Oak Road, 7 th Floor Walnut Creek, CA 94597
JV PartnerCo, LLC	2999 Oak Road, 7 th Floor Walnut Creek, CA 94597

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "CELLCO PARTNERSHIP" IS DULY FORMED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE TWENTY-SEVENTH DAY OF APRIL, A.D. 2023.

AND I DO HEREBY FURTHER CERTIFY THAT THE ANNUAL TAXES HAVE BEEN PAID TO DATE.




Jeffrey W. Bullock, Secretary of State

3341134 8300

SR# 20231665976

You may verify this certificate online at corp.delaware.gov/authver.shtml

Authentication: 203227418

Date: 04-27-23

Delaware

Page 1

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF LIMITED PARTNERSHIP OF "SOUTHERN TOWERS BTS, LP", FILED IN THIS OFFICE ON THE TWENTY-SEVENTH DAY OF MARCH, A.D. 2020, AT 3:33 O`CLOCK P.M.




Jeffrey W. Bullock, Secretary of State

7915565 8100
SR# 20233730171

Authentication: 204373001
Date: 10-13-23

You may verify this certificate online at corp.delaware.gov/authver.shtml

STATE OF DELAWARE CERTIFICATE OF LIMITED PARTNERSHIP

- **The Undersigned**, desiring to form a limited partnership pursuant to the Delaware Revised Uniform Limited Partnership Act, 6 Delaware Code, Chapter 17, do hereby certify as follows:

- **First:** The name of the limited partnership is Southern Towers BTS, LP

- **Second:** The address of its registered office in the State of Delaware is _____
2140 S Dupont in the city of Camden
Zip code 19934. The name of the Registered Agent at such address is
Paracorp Incorporated

- **Third:** The name and mailing address of each general partner is as follows:

Southern Towers BTS, LLC
250 Signal Mountain Road, Suite B
Chattanooga, TN 37405

- **In Witness Whereof**, the undersigned has executed this Certificate of Limited Partnership as of 27 day of March, A.D. 2020.

By: Southern Towers BTS, LLC
General Partner

Name: Sean G. Caskie
(type or print name)

SIGNED ON BEHALF OF ITS GENERAL PARTNER

Sean G. Caskie

Commonwealth of Kentucky
Michael G. Adams, Secretary of State

Michael G. Adams
Secretary of State
P. O. Box 718
Frankfort, KY 40602-0718
(502) 564-3490
<http://www.sos.ky.gov>

Certificate of Authorization

Authentication number: 298787

Visit <https://web.sos.ky.gov/ftshow/certvalidate.aspx> to authenticate this certificate.

I, Michael G. Adams, Secretary of State of the Commonwealth of Kentucky, do hereby certify that according to the records in the Office of the Secretary of State,

SOUTHERN TOWERS BTS, LP

, a limited partnership authorized under the laws of the state of Delaware, is authorized to transact business in the Commonwealth of Kentucky, and received the authority to transact business in Kentucky on August 22, 2022.

I further certify that all fees and penalties owed to the Secretary of State have been paid; that a certificate of cancellation has not been filed; and that the most recent annual report required by KRS 14A.6-010 has been delivered to the Secretary of State.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal at Frankfort, Kentucky, this 13th day of October, 2023, in the 232nd year of the Commonwealth.



Michael G. Adams

Michael G. Adams
Secretary of State
Commonwealth of Kentucky
298787/1227103

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "SOUTHERN TOWERS BTS, LP" IS DULY FORMED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE THIRTEENTH DAY OF OCTOBER, A.D. 2023.

AND I DO HEREBY FURTHER CERTIFY THAT THE SAID "SOUTHERN TOWERS BTS, LP" WAS FORMED ON THE TWENTY-SEVENTH DAY OF MARCH, A.D. 2020.

AND I DO HEREBY FURTHER CERTIFY THAT THE ANNUAL TAXES HAVE BEEN PAID TO DATE.




Jeffrey W. Bullock, Secretary of State

7915565 8300

SR# 20233730160

You may verify this certificate online at corp.delaware.gov/authver.shtml

Authentication: 204372990

Date: 10-13-23



Antenna Structure Registration

[FCC](#) > [WTB](#) > [ASR](#) > [Online Systems](#) > ASR Search

[FCC Site Map](#)

ASR Registration Search

Registration 1318948

[? HELP](#)

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Registration Detail

Reg Number	1318948	Status	Granted
File Number	A1171418	Constructed	
EMI	No	Dismantled	
NEPA			

Antenna Structure

Structure Type LTOWER - Lattice Tower

Location (in NAD83 Coordinates - [Convert to NAD27](#))

Lat/Long	36-40-52.4 N 088-23-53.2 W	Address	Fire Statino Dr (15287337)
City, State	Kirkesy , KY		
Zip	42054	County	CALLOWAY
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
172.2	82.3
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
254.5	80.7

Painting and Lighting Specifications

FAA Chapters 4, 8, 15

Paint and Light in Accordance with FAA Circular Number [70/7460-1M](#)

FAA Notification

FAA Study	2020-ASO-36927-OE	FAA Issue Date	02/22/2021
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Owner & Contact Information

FRN	0001836709	Owner Entity Type	General Partnership
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Owner

Kentucky RSA No. 1 Partnership
Attention To: Network Regulatory
5055 North Point Pkwy
NP2NE Network Engineering
Alpharetta , GA 30022

P: (770)797-1070
F:
E: NetworkRegulatory@VerizonWireless.com

Contact

Manager , Regulatory
Attention To: Network Regulatory
5055 North Point Pkwy

P: (770)797-1070
F:
E: NetworkRegulatory@VerizonWireless.com

NP2NE Network Engineering
Alpharetta , GA 30022

Last Action Status

Status	Granted	Received	04/05/2021
Purpose	Amendment	Entered	04/05/2021
Mode	Interactive		

Related Applications

04/05/2021 [A1171418](#) - Amendment (AM)

Comments

Comments

None

History

Date	Event
04/12/2022	Construction Reminder Letter Sent
04/06/2021	Registration Printed

Pleadings

Pleading Type	Filer Name	Description	Date Entered
None			

Automated Letters

04/12/2022 [Construction Reminder](#), Reference 1165408

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Federal Communications Commission
45 L Street NE
Washington, DC 20554

Phone: 1-877-480-3201
TTY: 1-717-338-2824
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**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: KENTUCKY RSA NO. 1 PARTNERSHIP

ATTN: LICENSING MANAGER
KENTUCKY RSA NO. 1 PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign KNKQ306	File Number 0009611390
Radio Service CL - Cellular	
Market Numer CMA443	Channel Block B
Sub-Market Designator 0	

FCC Registration Number (FRN): 0001836709

Market Name Kentucky 1 - Fulton

Grant Date 08-31-2021	Effective Date 08-31-2021	Expiration Date 10-01-2031	Five Yr Build-Out Date	Print Date 08-31-2021
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Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
1	36-20-59.2 N	089-22-12.3 W	98.0		

Address: 0.68 MILE SOUTH OF LASSITER CORNER & REEL FOOT LAKE

City: LASSITER CORNER **County:** LAKE **State:** TN **Construction Deadline:**

Antenna: 1

Maximum Transmitting ERP in Watts: 135.800

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	148.000	117.000	107.000	117.000	121.000	147.000	149.000	146.000
Transmitting ERP (watts)	133.300	103.500	36.500	4.500	1.500	3.900	38.800	109.600

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number: 0009611390

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
2	36-45-58.0 N	088-38-50.0 W	143.0	147.8	1043917

Address: 416 Jimtown Road

City: MAYFIELD County: GRAVES State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	124.300	120.000	100.800	92.100	88.300	103.100	108.600	100.800
Transmitting ERP (watts)	91.200	87.100	85.110	85.110	89.130	87.100	89.130	89.130

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
4	36-54-35.5 N	089-04-01.6 W	110.3	121.0	1030662

Address: (Wickliffe) 353 CR 1307

City: Bardwell County: CARLISLE State: KY Construction Deadline:

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	107.500	98.100	119.800	96.700	86.900	133.300	130.900	130.400
Transmitting ERP (watts)	189.230	48.640	1.690	0.930	0.930	0.930	1.810	52.120

Antenna: 5

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	107.500	98.100	119.800	96.700	86.900	133.300	130.900	130.400
Transmitting ERP (watts)	1.710	64.860	368.980	174.580	8.750	0.930	0.930	0.930

Antenna: 6

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	107.800	98.100	119.800	96.700	86.900	133.300	130.900	130.400
Transmitting ERP (watts)	0.350	0.350	1.230	35.330	112.440	35.270	1.000	0.350

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
6	36-31-12.4 N	088-50-41.5 W	144.2	122.2	1030665

Address: (Fulton) 550 Powell Road

City: Fulton County: HICKMAN State: KY Construction Deadline:

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	128.200	122.800	123.200	135.200	147.500	157.200	143.900	141.700
Transmitting ERP (watts)	110.570	412.100	98.560	4.220	1.510	0.920	0.920	6.530

Antenna: 5

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	128.200	122.800	123.200	135.200	147.500	157.200	143.900	141.700
Transmitting ERP (watts)	0.550	0.550	0.550	0.550	1.480	16.430	11.480	0.700

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number: 0009611390

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
6	36-31-12.4 N	088-50-41.5 W	144.2	122.2	1030665

Address: (Fulton) 550 Powell Road

City: Fulton County: HICKMAN State: KY Construction Deadline:

Antenna: 6

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	128.200	122.800	123.200	135.200	147.500	157.200	143.900	141.700
Transmitting ERP (watts)	135.480	5.650	2.230	0.920	1.320	5.450	78.640	402.820

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
7	36-38-26.2 N	088-16-00.1 W	165.8	90.8	1030663

Address: (Murray) 1431 Van Cleave Road

City: Murray County: CALLOWAY State: KY Construction Deadline:

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	106.900	107.100	115.000	106.900	87.400	91.300	86.200	97.500
Transmitting ERP (watts)	124.240	6.420	0.560	0.560	0.560	0.830	39.630	251.940

Antenna: 5

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	106.900	107.100	115.000	106.900	87.400	91.300	86.200	97.500
Transmitting ERP (watts)	3.450	96.460	263.070	57.230	1.700	0.560	0.560	0.560

Antenna: 6

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	106.900	107.100	115.000	106.900	87.400	91.300	86.200	97.500
Transmitting ERP (watts)	0.370	0.370	0.370	12.730	121.110	104.340	9.310	0.370

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
8	37-03-51.4 N	088-57-23.6 W	116.4	92.4	1030664

Address: (La Center) 220 RICHARDSON LN

City: LA CENTER County: BALLARD State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	85.600	78.400	71.900	66.000	65.300	67.000	87.700	96.100
Transmitting ERP (watts)	2.110	71.430	167.460	63.670	0.330	0.640	0.330	0.330

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	85.600	78.400	71.900	66.000	65.300	67.000	87.700	96.100
Transmitting ERP (watts)	1.230	1.000	1.380	23.440	338.840	457.090	66.070	2.240

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number: 0009611390

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
8	37-03-51.4 N	088-57-23.6 W	116.4	92.4	1030664

Address: (La Center) 220 RICHARDSON LN

City: LA CENTER County: BALLARD State: KY Construction Deadline:

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	85.600	78.400	71.900	66.000	65.300	67.000	87.700	96.100
Transmitting ERP (watts)	165.960	6.610	0.910	0.500	0.500	0.890	45.710	223.870

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
10	36-44-07.9 N	088-58-29.2 W	131.9	92.9	1030723

Address: 3975 State Route 2206

City: CLINTON County: HICKMAN State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	100.500	101.900	98.900	84.700	107.900	118.900	119.900	100.400
Transmitting ERP (watts)	96.610	96.610	96.610	96.610	96.610	96.610	96.610	96.610

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
11	37-02-00.0 N	088-22-10.0 W	105.5	106.7	1040303

Address: (Calvert City) 641 Jary Johnson Rd.

City: Calvert City County: MARSHALL State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.900	77.600	88.100	83.000	68.600	85.300	97.900	93.100
Transmitting ERP (watts)	23.380	330.300	378.360	36.130	0.970	0.970	0.970	0.970

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.900	77.600	88.100	83.000	68.600	85.300	97.900	93.100
Transmitting ERP (watts)	0.970	0.970	0.970	14.730	240.930	357.480	49.940	1.230

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.900	77.600	88.100	83.000	68.600	85.300	97.900	93.100
Transmitting ERP (watts)	63.740	2.060	0.660	0.660	0.660	4.020	107.530	274.970

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number: 0009611390

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
12	36-34-49.2 N	088-31-45.2 W	155.5	91.4	1202399

Address: 12201 SR 97

City: TriCity County: GRAVES State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	75.100	73.400	74.100	70.100	102.600	100.900	74.700	81.300
Transmitting ERP (watts)	0.280	4.680	67.610	91.200	13.180	0.450	0.250	0.200

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	75.100	73.400	74.100	70.100	102.600	100.900	74.700	81.300
Transmitting ERP (watts)	0.360	0.200	0.200	0.350	18.200	89.130	66.070	2.630

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	75.100	73.400	74.100	70.100	102.600	100.900	74.700	81.300
Transmitting ERP (watts)	100.000	38.020	0.200	0.380	0.200	0.200	1.260	42.660

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
14	37-05-47.2 N	088-42-35.2 W	104.2	63.4	1200593

Address: (Paducah West) 4415 Merredith Rd.

City: Paducah County: MCCRACKEN State: KY Construction Deadline: 07-08-2014

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	59.900	55.900	65.200	50.700	38.200	34.700	42.800	64.600
Transmitting ERP (watts)	24.580	50.820	50.310	19.100	0.840	0.330	0.330	1.370

Antenna: 5

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	59.900	55.900	65.200	50.700	38.200	34.700	42.800	64.600
Transmitting ERP (watts)	0.440	0.440	12.210	76.570	112.800	57.980	5.460	0.440

Antenna: 6

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	59.900	55.900	65.200	50.700	38.200	34.700	42.800	64.600
Transmitting ERP (watts)	20.830	0.780	0.440	0.440	2.790	42.940	108.040	89.900

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number: 0009611390

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
15	36-46-54.2 N	088-03-28.1 W	199.0	126.5	1205551

Address: 14664 Canton Road

City: Golden Pond County: TRIGG State: KY Construction Deadline: 05-19-2006

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	165.000	178.000	160.400	174.500	170.600	167.000	177.000	183.900
Transmitting ERP (watts)	96.610	96.610	96.610	96.610	96.610	96.610	96.610	96.610

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
16	36-34-03.0 N	089-10-30.9 W	109.4	91.4	1282534

Address: (Hickman site) Holley Street

City: Hickman County: FULTON State: KY Construction Deadline: 05-28-2014

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	105.500	102.800	96.700	89.300	75.700	68.400	107.900	107.300
Transmitting ERP (watts)	141.700	118.910	1.140	0.580	0.580	0.580	0.580	4.050

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	105.500	102.800	96.700	89.300	75.700	68.400	107.900	107.300
Transmitting ERP (watts)	0.580	4.050	141.730	118.910	1.140	0.580	0.580	0.580

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	105.500	102.800	96.700	89.300	75.700	68.400	107.900	107.300
Transmitting ERP (watts)	0.460	0.460	0.460	0.460	0.460	7.710	45.610	24.600

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	37-10-55.4 N	088-56-43.7 W	102.7	99.1	1252613

Address: (Monkey's Eyebrow) 4625 Odgen Colvin Circle

City: Kevil County: BALLARD State: KY Construction Deadline: 10-24-2014

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	85.900	83.500	90.600	69.600	74.300	84.600	86.500	83.200
Transmitting ERP (watts)	7.080	125.890	478.630	112.200	4.570	1.580	1.000	1.000

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	85.900	83.500	90.600	69.600	74.300	84.600	86.500	83.200
Transmitting ERP (watts)	1.000	1.410	12.020	213.800	446.680	64.570	2.820	1.000

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number: 0009611390

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	37-10-55.4 N	088-56-43.7 W	102.7	99.1	1252613

Address: (Monkey's Eyebrow) 4625 Odgen Colvin Circle

City: Kevil County: BALLARD State: KY Construction Deadline: 10-24-2014

Antenna: 4

Maximum Transmitting ERP in Watts: 140.820

Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	85.900	83.500	90.600	69.600	74.300	84.600	86.500	83.200
Transmitting ERP (watts)	2.000	2.000	2.000	2.000	2.000	398.110	549.540	4.900

Control Points:

Control Pt. No. 3

Address: 500 W. Dove Rd.

City: Southlake County: TARRANT State: TX Telephone Number: (800)264-6620

Waivers/Conditions:

NONE

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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with 2 columns: Call Sign (KNLH404), File Number, and Radio Service (CW - PCS Broadband).

FCC Registration Number (FRN): 0003290673

Table with 4 columns: Grant Date (04-24-2017), Effective Date (11-30-2017), Expiration Date (04-28-2027), Print Date, Market Number (BTA339), Channel Block (D), Sub-Market Designator (0), Market Name (Paducah-Murray-Mayfield, KY), 1st Build-out Date (04-28-2002), 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNLH404

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: ALLTEL CORPORATION

ATTN: REGULATORY
ALLTEL CORPORATION
5055 NORTH POINT PKWY, NP2NE ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WQBT313), File Number, and Radio Service (CW - PCS Broadband).

FCC Registration Number (FRN): 0002942159

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

Licensee Name: ALLTEL CORPORATION

Call Sign: WQBT313

File Number:

Print Date:

This license is conditioned upon compliance with the provisions of Applications of AT&T Wireless Services, Inc. and Cingular Wireless Corporation For Consent to Transfer Control of Licenses and Authorizations, Memorandum Opinion and Order, FCC 04-255 (rel. Oct. 26, 2004).

Reference Copy

Licensee Name: ALLTEL CORPORATION

Call Sign: WQBT313

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: ALLTEL CORPORATION

ATTN: REGULATORY
ALLTEL CORPORATION
5055 NORTH POINT PKWY, NP2NE ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WQBT318), File Number, and Radio Service (CW - PCS Broadband).

FCC Registration Number (FRN): 0002942159

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

Licensee Name: ALLTEL CORPORATION

Call Sign: WQBT318

File Number:

Print Date:

This license is conditioned upon compliance with the provisions of Applications of AT&T Wireless Services, Inc. and Cingular Wireless Corporation For Consent to Transfer Control of Licenses and Authorizations, Memorandum Opinion and Order, FCC 04-255 (rel. Oct. 26, 2004).

Reference Copy

Licensee Name: ALLTEL CORPORATION

Call Sign: WQBT318

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WQGA718), File Number (0009793647), and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz))

FCC Registration Number (FRN): 0003290673

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGA718

File Number: 0009793647

Print Date: 02-23-2022

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WQGA960), File Number (0009775572), and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz))

FCC Registration Number (FRN): 0003290673

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGA960

File Number: 0009775572

Print Date: 01-05-2022

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WQGD606), File Number (0009565676), and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz)).

FCC Registration Number (FRN): 0003290673

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations.

Special Condition for AU/name change (6/4/2016): Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGD606

File Number: 0009565676

Print Date: 07-09-2022

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WQJQ692), File Number, and Radio Service (WU - 700 MHz Upper Band (Block C)).

FCC Registration Number (FRN): 0003290673

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

If the facilities authorized herein are used to provide broadcast operations, whether exclusively or in combination with other services, the licensee must seek renewal of the license either within eight years from the commencement of the broadcast service or within the term of the license had the broadcast service not been provided, whichever period is shorter in length. See 47 CFR §27.13(b).

This authorization is conditioned upon compliance with section 27.16 of the Commission's rules

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQJQ692

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign WREF207	File Number
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

Grant Date 10-02-2019	Effective Date 10-02-2019	Expiration Date 10-02-2029	Print Date
Market Number C21035	Channel Block L1	Sub-Market Designator 0	
Market Name CALLOWAY, KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at <http://wireless.fcc.gov/uls/index.htm?job=home> and select "License Search". Follow the instructions on how to search for license information.

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WREF207

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE ENGINEERING
ALPHARETTA, GA 30022

Call Sign WRHG984	File Number 0010283156
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

Grant Date 06-04-2020	Effective Date 11-18-2022	Expiration Date 06-04-2030	Print Date 03-15-2023
Market Number PEA243	Channel Block M1	Sub-Market Designator 0	
Market Name Paducah, KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRHG984

File Number: 0010283156

Print Date: 03-15-2023

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE ENGINEERING
ALPHARETTA, GA 30022

Call Sign WRHG994	File Number 0010283156
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

Grant Date 06-04-2020	Effective Date 11-18-2022	Expiration Date 06-04-2030	Print Date 03-15-2023
Market Number PEA243	Channel Block N1	Sub-Market Designator 0	
Market Name Paducah, KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRHG994

File Number: 0010283156

Print Date: 03-15-2023

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WRNG985), File Number, and Radio Service (PM - 3.7 GHz Service).

FCC Registration Number (FRN): 0003290673

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

This final license provides authorization during the full 15-year license term. Operation under this final license may begin on the earlier of (1) 12/5/2025 or (2) the date that the certification for accelerated relocation for this PEA is validated by the FCC pursuant to 47 CFR § 27.1412(g).

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras. 178-331.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNG985

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign WRNG990	File Number
Radio Service PM - 3.7 GHz Service	

FCC Registration Number (FRN): 0003290673

Grant Date 07-23-2021	Effective Date 07-23-2021	Expiration Date 07-23-2036	Print Date
Market Number PEA243	Channel Block B1	Sub-Market Designator 0	
Market Name Paducah, KY			
1st Build-out Date 07-23-2029	2nd Build-out Date 07-23-2033	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This final license provides authorization during the full 15-year license term. Operation under this final license may begin on the earlier of (1) 12/5/2025 or (2) the date that the certification for accelerated relocation for this PEA is validated by the FCC pursuant to 47 CFR § 27.1412(g).

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras. 178-331.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNG990

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy



250 SIGNAL MOUNTAIN ROAD, SUITE B
CHATTANOOGA, TN 37405

265' SELF SUPPORT TOWER
W/5' LIGHTNING ROD
TOTAL TOWER HEIGHT 270'

PROJECT SUMMARY table with columns: SOUTHERN TOWERS, LLC SITE, VERIZON WIRELESS SITE, POLICE, FIRE, SHERIFFS, GENERAL INFORMATION, TOWER OWNER, PROPERTY OWNER, PROJECT TOTAL DISTURBED AREA.



VICINITY MAP © 2023 GOOGLE

PROJECT DESCRIPTION table with detailed construction and installation instructions for the tower and equipment.



LOCATION MAP © 2023 GOOGLE

CONSULTANT TEAM table listing roles and contact information for Surveyor, Engineer, and Electrical.



AERIAL © 2023 GOOGLE

KIRKSEY
KY-002
FIRE STATION DRIVE
KIRKSEY, KY 42054
CALLOWAY COUNTY
TENANT: KENTUCKY RSA 1 PSHP
d/b/a VERIZON WIRELESS
"EV KIRKSEY"

FROM EVANSVILLE MTSO: 800 RUSSELL ROAD, CHANDLER, IN 47610: HEAD WEST ON RUSSELL ROAD (3 MI). TURN RIGHT AT THE 1ST CROSS STREET TO STAY ON RUSSELL ROAD (3 MI). TURN LEFT ONTO GARDNER ROAD (1.6 MI). TURN LEFT ONTO IN-62 (4.2 MI). TURN RIGHT ONTO THE I-64 S RAMP (3 MI). MERGE ONTO I-69 S (8.1 MI). TAKE EXIT 0 TO MERGE ONTO US-41 S, TOWARD HENDERSON KY (1 MI). MERGE ONTO US-41 S (6.1 MI). KEEP LEFT TO STAY ON US-41 S (2.4 MI). KEEP LEFT TO CONTINUE ON PENNYRILE PKWY. FOLLOW SIGNS FOR OWENSBORO (1.1 MI). CONTINUE ONTO I-69 / PENNYRILE PKWY (42.6 MI). KEEP RIGHT AT THE FORK TO STAY ON I-69. FOLLOW SIGNS FOR PADUCAH (38.4 MI). TAKE EXIT 68B FOR I-24 W / I-69 S (15.9 MI). TAKE THE EXIT ON THE LEFT ONTO I-69 (10.5 MI). TAKE EXIT 41 FOR US-641 SPUR TOWARD HARDIN / MURRAY (9 MI). CONTINUE ONTO US-641 SPUR S (2 MI). TURN RIGHT ONTO KY-58 W (1.4 MI). TURN LEFT ONTO KY-2606 (4.4 MI). TURN RIGHT ONTO KY-402 (31.2). TURN LEFT ONTO KY-299 S (5.6 MI). TURN RIGHT ONTO WASHER ROAD (1 MI). TURN LEFT ONTO FIRE STATION DRIVE (2 MI). SITE WILL BE ON THE LEFT SIDE OF THE ROAD.

SCHEKS table with columns: SHEET NUMBER, DESCRIPTION, PROJECT INFORMATION, SITE MAPS, SURVEY PLAN, ENVIRONMENTAL EVALUATION, OVERALL SITE PLAN, GRADING AND E&S CONTROL PLAN, DETAILED SITE PLAN, DIMENSIONED SITE PLAN, DETAILED EQUIPMENT PAD PLAN, GENERAL SITE CONSTRUCTION NOTES, BEST MANAGEMENT PRACTICES & EROSION CONTROL DETAILS AND NOTES, FENCE DETAILS AND NOTES, SITE DETAILS, EQUIPMENT PAD & CANOPY ELEVATIONS, VZW WIRELESS SIGNAGE, EQUIPMENT PAD FOUNDATION PLAN, ICE BRIDGE PLAN, FOUNDATION PLAN AND DETAILS, TOWER ELEVATION, ELECTRICAL, SITE UTILITY PLAN, TRENCH SECTIONS, PANEL SCHEDULE, ELECTRICAL NOTES, OVP & INTEGRATED LOAD CENTER, EQUIPMENT CABINET ELEVATIONS, EQUIPMENT PAD LIGHTING PLAN, ALARMING TABLE AND DETAILS, ALARMING DIAGRAMS, ALARM AND FIBER CABLE ROUTING, GROUNDING, GROUNDING NOTES, VERIZON WIRELESS GROUNDING PLAN, GROUNDING DETAILS, GROUNDING DETAILS, ANTENNA PLAN AND DETAILS, TOWER DETAILS.

ISSUED FOR table with columns: REVIEW, PERMIT, CONSTRUCTION, RECORD, PROJECT MANAGER, DESIGNER, TTP, SEK, JOB NO. 2019737.57, TITLE SHEET.

T-1



250 SIGNAL MOUNTAIN ROAD, SUITE B
CHATTANOOGA, TN 37405



Professional Engineer seal for Christopher J. Tucker, License No. 29760, State of Kentucky.



815 SUPERIOR AVE., E
SUITE 1812
CLEVELAND, OHIO 44114



NUMBER: 20192031898

SITE NAME: EV KIRKSEY

SITE ADDRESS:
FIRE STATION DRIVE
KIRKSEY, KY 42054

LEASE AREA:
10000 SQ. FT.

PROPERTY OWNER:
ROBERT CRICK
JIMMIE LOUISE CRICK
235 NORSWORTHY RD.
KIRKSEY, KY 42054

SECTION/TOWNSHIP/RANGE:
SEC 35, T3, R3E

COUNTY:
CALLOWAY COUNTY

PARCEL:
021-0-0048-E

LATITUDE: 36° 40' 52.45"N
LONGITUDE: 88° 23' 53.22"W

DWG BY: GVV
CHKD BY: RMW
DATE: 3.13.20

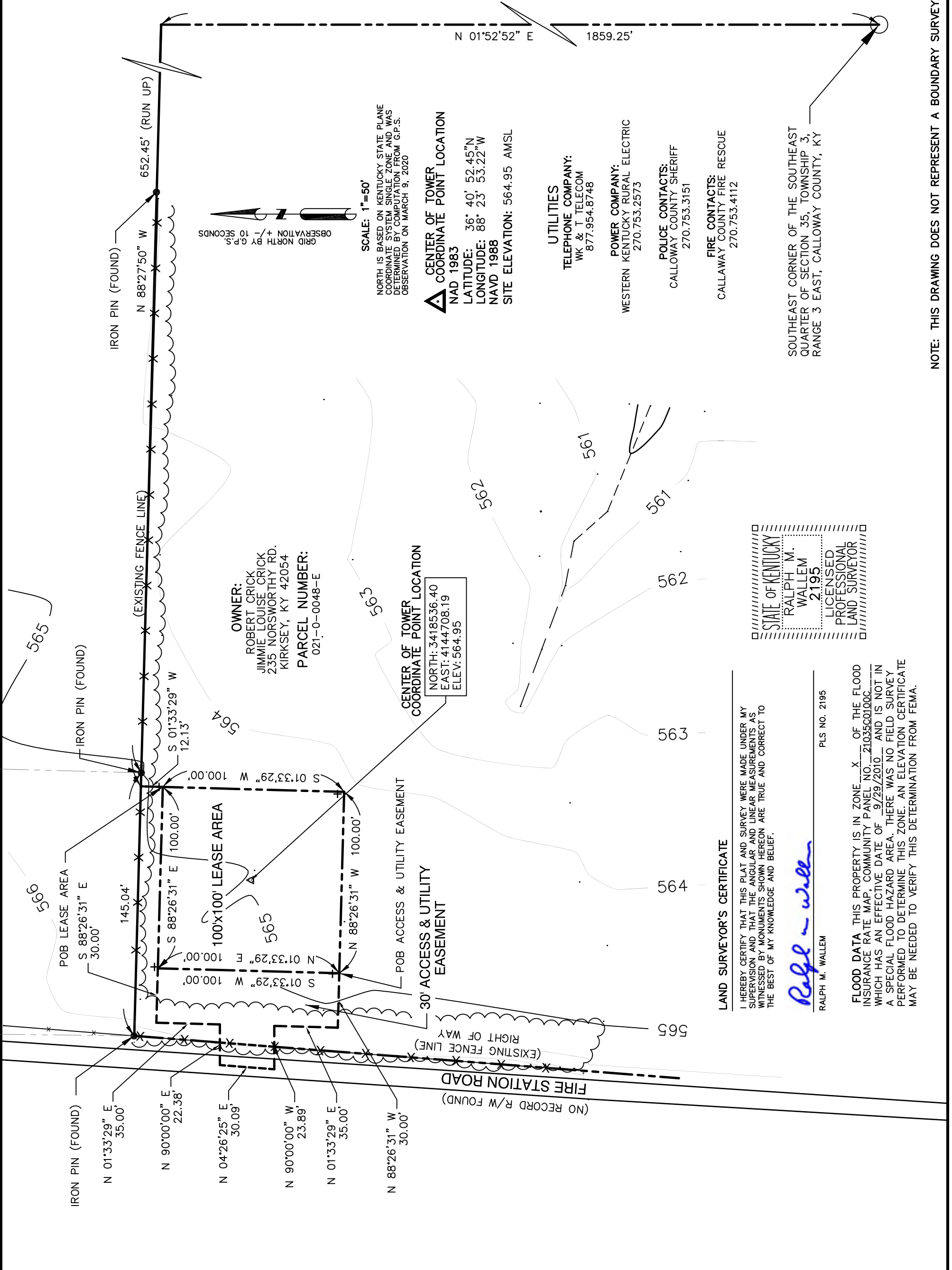
NO. REVISION/ISSUE **DATE:**

TITLE:

SURVEY PLAN

SHEET:

1 OF 2



ALTA COMMITMENT FOR TITLE INSURANCE

AMC SETTLEMENT SERVICES

ORDER #: 50008360
LOAN #: VZW/EV Kirksey
EFFECTIVE DATE: 01/30/2020

TITLE TO SAID ESTATE OR INTEREST IN SAID LAND IS AT THE EFFECTIVE DATE HEREOF VESTED IN: ROBERT CRICK, A ONE-HALF INTEREST, AND KAREN CRICK, A ONE-HALF INTEREST

THE LAND REFERRED TO IN THIS REPORT IS LOCATED IN THE COUNTY OF CALLOWAY, STATE OF KENTUCKY AND DESCRIBED AS FOLLOWS:

SEE ATTACHED EXHIBIT A

SCHEDULE B

SECTION II - EXCEPTIONS
THE POLICY OR POLICIES TO BE ISSUED WILL CONTAIN EXCEPTIONS TO THE FOLLOWING UNLESS THE SAME ARE DISPOSED OF TO THE SATISFACTION OF THE COMPANY:
ITEMS 1 AND 2-(NOT A SURVEYOR RELATED ITEM)

3. ANY ENCROACHMENT, ENCUMBRANCE, VIOLATION, VARIATION, OR ADVERSE CIRCUMSTANCE AFFECTING THE TITLE THAT WOULD BE DISCLOSED BY AN ACCURATE AND COMPLETE LAND SURVEY OF THE LAND.(PARENT PARCEL NOT SURVEYED)

ITEMS 4 THRU 7-(NOT A SURVEYOR RELATED ITEM)

8. SUBJECT TO SURVEY RECORDED 9/25/2018, SLIDE 5477, IN PLAT BOOK 56, PAGE 60, CALLOWAY COUNTY RECORDS. (RECORDED SURVEY WAS USED TO PREPARE LEASE AREA AND ACCESS & UTILITY EASEMENT)

9. ATTENTION LOAN CLOSER: IMMEDIATELY UPON CLOSING, PLEASE NOTIFY AMCSS FOR MORTGAGE FILING INSTRUCTIONS. PLEASE CALL AMCSS. (NOT A SURVEYOR RELATED ITEM.)

DESCRIPTION OF PARENT PARCEL EXHIBIT A

ALL THAT PARCEL OF LAND IN THE IN THE COUNTY OF CALLOWAY AND COMMONWEALTH OF KENTUCKY AS MORE FULLY DESCRIBED IN DEED AND BOOK 809 PAGE 695 AND PARCEL # 021-0-0048-E, BEING KNOWN AND DESIGNATED AS:

PARCEL I:
BEING A PORTION OF SECTION 35, T. 3, R. 3, EAST, DESCRIBED AS BEGINNING AT THE SOUTHEAST CORNER OF THE SOUTHEAST QUARTER OF SAID SECTION; THENCE NORTH WITH THE QR. SEC. LINE AND WITH THE MURRAY-KIRKSEY ROAD 126.66 POLES TO A ROCK; THENCE WEST 39.09 POLES TO A STAKE; THENCE NORTH 14.12 POLES TO A STAKE; THENCE WEST 9 POLES TO A STAKE; THENCE SOUTH 14.12 POLES TO A STAKE; THENCE SOUTH 4 DEGREES WEST 84.06 POLES TO A STAKE; THENCE SOUTH 6 DEGREES EAST 42.42 POLES TO A STAKE IN THE SOUTH LINE OF SAID SEC. 35; THENCE EAST WITH SEC. LINE 46.34 POLES TO THE BEGINNING, CONTAINING 39 ACRES AND 123 POLES, EXCEPT 8 1/2 ACRES SOLD OFF OF THE NORTH END TO ZOLLIE NORSWORTHY.

ALSO EXCEPT: ONE ACRE LOCATED IN THE SOUTHEAST CORNER OF THE ABOVE DESCRIBED TRACT; SAID ONE ACRE BEING 180 FEET NORTH AND SOUTH ALONG THE WEST SIDE OF SAID HIGHWAY AND BEING 242 FEET EAST AND WEST.

ALSO LESS AND EXCEPT:

- (1) THAT TRACT OF LAND CONVEYED TO GERALD STONE, ET UX., BY DEED DATED OCTOBER 7, 1961, OF RECORD IN DEED BOOK 114, PAGE 243.
- (2) THAT TRACT OF LAND CONVEYED TO CECIL BAKER, ET UX., BY DEED DATED OCTOBER 7, 1961, OF RECORD IN DEED BOOK 114, PAGE 244.
- (3) THAT TRACT OF LAND CONVEYED TO HOMER CRASS, ET UX., BY DEED DATED OCTOBER 7, 1061 OF RECORD IN DEED BOOK 114, PAGE 245.

PARCEL II:

BEING A PORTION OF SECTION 35, T. 3, R. 3, EAST: BEGINNING AT A POINT OF THE WEST SIDE OF THE MURRAY & KIRKSEY STATE HIGHWAY NO. 299, WHICH BEGINNING POINT OF 126.66 POLES NORTH OF THE S.E. CORNER OF THE S.E. QR. OF S. 35, T. 3, R. 3, EAST; THENCE WEST WITH CLOY'S NORTH LINE 39.09 POLES TO A STAKE; THENCE NORTH 14.12 POLES TO A STAKE; THENCE WEST 9 POLES TO A STAKE; THENCE SOUTH 14.12 POLES TO A STAKE; THENCE CONTINUING SOUTH 4 DEGREES WEST FAR ENOUGH TO MAKE (81/2) EIGHT AND ONE HALF ACRES HEREIN CONVEYED; THENCE EAST PARALLEL WITH NORTH LINE HEREOF ABOUT 46 POLES TO THE WEST SIDE OF SAID MURRAY & KIRKSEY STATE HIGHWAY; THENCE NORTH WITH SAID HIGHWAY TO THE POINT OF BEGINNING, CONTAINING 8 1/2 ACRES.

LESS AND EXCEPT: THAT TRACT OF LAND CONVEYED TO JUDY L. USHER, A SINGLE PERSON, BY DEED DATED JULY 9, 1973, OF RECORD IN BOOK 152, PAGE 1985 IN THE OFFICE OF THE CALLOWAY COUNTY CLERK

PARCEL NUMBER: 021-0-0048-E

BEING THE SAME PROPERTY ACQUIRED BY ROBERT CRICK, A ONE-HALF INTEREST, AND KAREN CRICK, A ONE-HALF INTEREST BY DEED OF CLAYBORN CRICK AND WIFE JIMMIE LOUISE CRICK, DATED 11/05/2009 AND RECORDED 11/05/2009 IN BOOK / PAGE : 809 / 695

DESCRIPTION OF LEASE AREA
A PART OF SECTION 35, TOWNSHIP 3, RANGE 3 EAST, CALLOWAY COUNTY, KENTUCKY AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF THE SOUTHEAST QUARTER OF SAID SECTION 35; THENCE ON AND ALONG THE EAST QUARTER SECTION LINE NORTH 01 DEGREES 52 MINUTES 52 SECONDS EAST 1859.25 FEET; THENCE NORTH 88 DEGREES 27 MINUTES 50 SECONDS WEST 652.45 FEET; THENCE SOUTH 01 DEGREES 33 MINUTES 29 SECONDS EAST 12.13 FEET TO THE TRUE PLACE OF BEGINNING; THENCE CONTINUING SOUTH 01 DEGREES 33 MINUTES 29 SECONDS WEST 100.00 FEET; THENCE NORTH 88 DEGREES 26 MINUTES 31 SECONDS WEST 100.00 FEET; THENCE NORTH 01 DEGREES 33 MINUTES 29 SECONDS EAST 100.00 FEET; THENCE SOUTH 88 DEGREES 26 MINUTES 31 SECONDS EAST 100.00 FEET TO THE TRUE PLACE OF BEGINNING AND CONTAINING 10,000 SQUARE FEET, (0.23 ACRES), MORE OR LESS.

DESCRIPTION OF 30' ACCESS AND UTILITY EASEMENT

A PART OF SECTION 35, TOWNSHIP 3, RANGE 3 EAST, CALLOWAY COUNTY, KENTUCKY AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

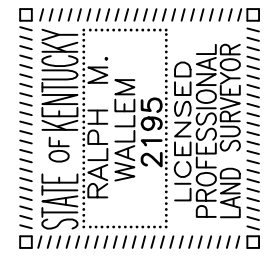
COMMENCING AT THE SOUTHEAST CORNER OF THE SOUTHEAST QUARTER OF SAID SECTION 35; THENCE ON AND ALONG THE EAST QUARTER SECTION LINE NORTH 01 DEGREES 52 MINUTES 52 SECONDS EAST 1859.25 FEET; THENCE NORTH 88 DEGREES 27 MINUTES 50 SECONDS WEST 652.45 FEET; THENCE SOUTH 01 DEGREES 33 MINUTES 29 SECONDS EAST 12.13 FEET; THENCE CONTINUING SOUTH 01 DEGREES 33 MINUTES 29 SECONDS WEST 100.00 FEET; THENCE NORTH 88 DEGREES 26 MINUTES 31 SECONDS WEST 100.00 FEET TO THE TRUE PLACE OF BEGINNING; THENCE CONTINUING NORTH 88 DEGREES 26 MINUTES 31 SECONDS WEST 30.00 FEET; THENCE NORTH 01 DEGREES 33 MINUTES 29 SECONDS EAST 35.00 FEET; THENCE NORTH 90 DEGREES 00 MINUTES 00 SECONDS WEST 23.89 FEET TO THE CENTER OF FIRE STATION ROAD; THENCE ALONG SAID CENTER OF ROAD NORTH 04 DEGREES 26 MINUTES 25 SECONDS EAST 30.09 FEET; THENCE NORTH 90 DEGREES 00 MINUTES 00 SECONDS EAST 22.38 FEET; THENCE NORTH 01 DEGREES 33 MINUTES 29 SECONDS EAST 35.00 FEET; THENCE SOUTH 88 DEGREES 26 MINUTES 31 SECONDS WEST 100.00 FEET; THENCE SOUTH 01 DEGREES 33 MINUTES 29 SECONDS WEST 100.00 FEET TO THE TRUE PLACE OF BEGINNING AND CONTAINING 3694 SQUARE FEET, (0.08 ACRES), MORE OR LESS.



815 SUPERIOR AVE., E
SUITE 1812
CLEVELAND, OHIO 44114



NUMBER:	20192031898
SITE NAME:	EV KIRKSEY
SITE ADDRESS:	FIRE STATION DRIVE KIRKSEY, KY 42054
LEASE AREA:	10000 SQ. FT.
PROPERTY OWNER:	ROBERT CRICK JIMMIE LOUISE CRICK 235 NORSWORTHY RD. KIRKSEY, KY 42054
SECTION/TOWNSHIP/RANGE	SEC 35, T3, R3E
COUNTY:	CALLOWAY COUNTY
PAZEL:	021-0-0048-E
LATITUDE:	36° 40' 52.45"N
LONGITUDE:	88° 23' 53.22"W
DWG BY:	GVW
CHKD BY:	RMW
DATE:	3.13.20
NO. REVISION/ISSUE	DATE:
TITLE:	SURVEY PLAN
SHEET:	2 OF 2



LAND SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT AND SURVEY WERE MADE UNDER MY SUPERVISION AND THAT THE ANGULAR AND LINEAR MEASUREMENTS AS WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

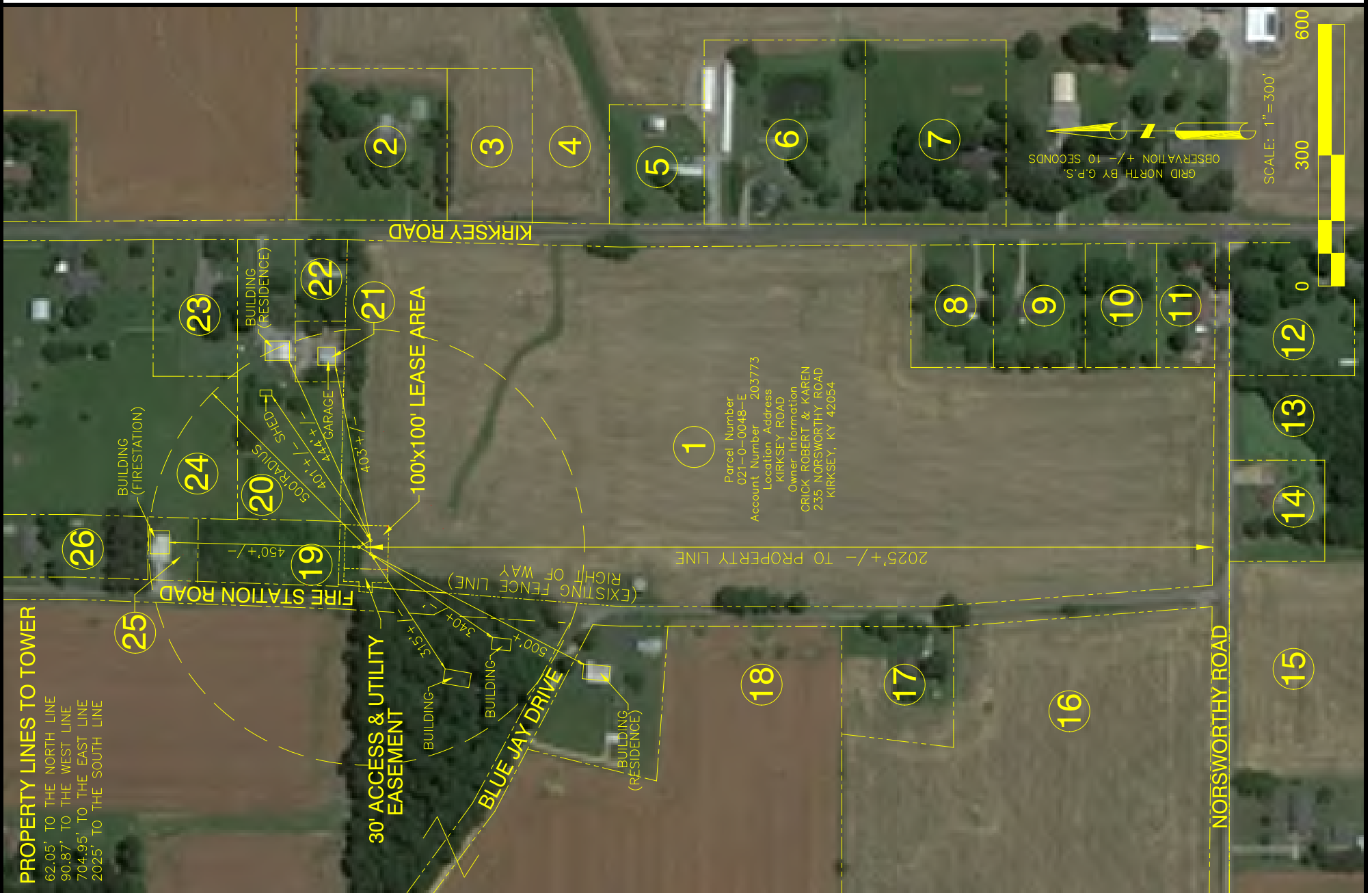
Ralph M. Wallem
RALPH M. WALLEM
PLS NO. 2195

NOTE: THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

PROPERTY LINES TO TOWER
 62.05' TO THE NORTH LINE
 90.87' TO THE WEST LINE
 704.95' TO THE EAST LINE
 2025' TO THE SOUTH LINE

30' ACCESS & UTILITY EASEMENT

100'x100' LEASE AREA



1
 Parcel Number
 021-0-0048-E
 Location Address
 KIRKSEY ROAD
 Owner Information
 CRICK ROBERT & KAREN
 235 NORSWORTHY ROAD
 KIRKSEY, KY 42054

2
 Parcel Number
 021-0-0066
 Location Address
 2786 KIRKSEY ROAD
 Owner Information
 WORKMAN CHARLES & PATRICIA
 2786 KIRKSEY ROAD
 MURRAY, KY 42071

3
 Parcel Number
 021-0-0050-E
 Location Address
 KIRKSEY ROAD
 Owner Information
 BRYANT BOBBIE S TRUST
 17750 LONG RUN HILL PLACE
 LOUISVILLE, KY 40245

4
 Parcel Number
 021-0-0050-E
 Location Address
 KIRKSEY ROAD
 Owner Information
 BRYANT BOBBIE S TRUST
 17750 LONG RUN HILL PLACE
 LOUISVILLE, KY 40245

5
 Parcel Number
 021-0-0050
 Location Address
 KIRKSEY ROAD
 Owner Information
 SMITH WILLIAM H JR &
 SMITH SHIRLEY TRUST
 2458 KIRKSEY ROAD
 MURRAY, KY 42071

6
 Parcel Number
 021-0-0081
 Location Address
 2632 KIRKSEY ROAD
 Owner Information
 CAPPS JACKIE L & CAPPS CHARLES E
 2632 KIRKSEY ROAD
 MURRAY, KY 42071

7
 Parcel Number
 021-0-0065
 Location Address
 2546 KIRKSEY ROAD
 Owner Information
 LAX ANTHONY NEIL & LAX APRIL LEIGH
 2546 KIRKSEY ROAD
 MURRAY, KY 42071

8
 Parcel Number
 021-0-0048-C
 Location Address
 2551 KIRKSEY ROAD
 Owner Information
 PEARSALL JOHN FREDRIC
 & JORDAN MARIE
 2551 KIRKSEY RD
 MURRAY, KY 42071

9
 Parcel Number
 021-0-0048-B
 Location Address
 2523 KIRKSEY ROAD
 Owner Information
 ENGLAND VALARIE
 1751 HALE ROAD
 MURRAY, KY 42071

10
 Parcel Number
 021-0-0048-A
 Location Address
 2487 KIRKSEY ROAD
 Owner Information
 EDMONSON RANDALL & CHRISTY
 2487 KIRKSEY ROAD
 MURRAY, KY 42071

11
 Parcel Number
 021-0-0047
 Location Address
 2453 KIRKSEY ROAD
 Owner Information
 COCHRAN STEVE
 2453 KIRKSEY ROAD
 MURRAY, KY 42071

12
 Parcel Number
 021-0-0057-C
 Location Address
 21-57
 Owner Information
 RANSEY CARLOS D & NORAA U

13
 Parcel Number
 021-0-0056-A
 Location Address
 235 NORSWORTHY RD
 Owner Information
 CRICK ROBERT & KAREN
 235 NORSWORTHY ROAD
 KIRKSEY, KY 42054

14
 Parcel Number
 021-0-0056-A
 Location Address
 235 NORSWORTHY ROAD
 Owner Information
 CRICK ROBERT & KAREN
 235 NORSWORTHY ROAD
 KIRKSEY, KY 42054

15
 Parcel Number
 021-0-0056-A
 Location Address
 235 NORSWORTHY ROAD
 Owner Information
 CRICK ROBERT & KAREN
 235 NORSWORTHY ROAD
 KIRKSEY, KY 42054

16
 Parcel Number
 021-0-0046
 Location Address
 FIRE STATION DRIVE
 Owner Information
 CRICK KAREN & CRICK ROBERT ALAN
 235 NORSWORTHY ROAD
 KIRKSEY, KY 42054

17
 Parcel Number
 021-0-0046-A
 Location Address
 129 FIRE STATION DRIVE
 Owner Information
 DOWNEY MARIYNN K
 129 FIRE STATION ROAD
 KIRKSEY, KY 42054

18
 Parcel Number
 021-0-0045
 Location Address
 255 FIRE STATION DRIVE
 Owner Information
 LESLIE ALLEEN & DANNY M
 249 WASHER ROAD
 KIRKSEY, KY 42054

19
 Parcel Number
 021-0-0048
 Location Address
 FIRE STATION DRIVE
 Owner Information
 TURNER JUDY
 1503 DUDLEY
 MURRAY, KY 42071

20
 Parcel Number
 021-0-0048-H
 Location Address
 2851 KIRKSEY ROAD
 Owner Information
 DESHIELDS MINDY D & SCOTT A
 2851 KIRKSEY ROAD
 MURRAY, KY 42071

21
 Parcel Number
 021-0-0048-G
 Location Address
 KIRKSEY ROAD
 Owner Information
 SMITH TAMMY & ET AL
 195 DOGWOOD LANE
 KIRKSEY, KY 42054

22
 Parcel Number
 021-0-0048-D
 Location Address
 2807 KIRKSEY ROAD
 Owner Information
 GRUBBS AMY JEAN
 2807 KIRKSEY ROAD
 MURRAY, KY 42071

23
 Parcel Number
 021-0-0049-A
 Location Address
 * 21-48H
 Owner Information
 DESHIELDS MINDY D & SCOTT A

24
 Parcel Number
 021-0-0049
 Location Address
 2907 KIRKSEY ROAD
 Owner Information
 LESLIE DEWEY V
 2907 KIRKSEY ROAD
 MURRAY, KY 42071

25
 Parcel Number
 021-0-0048-F
 Location Address
 434 FIRESTATION DRIVE
 Owner Information
 CALLOWAY COUNTY FIRE
 RESCUE #5
 PO BOX 612
 MURRAY, KY 42071

26
 Parcel Number
 021-0-0075
 Location Address
 127 WASHER ROAD
 Owner Information
 WATERS ROBERT O III &
 COLON AMANDA L
 127 WASHER ROAD
 KIRKSEY, KY 42054



815 SUPERIOR AVE., E
 SUITE 1812
 CLEVELAND, OHIO 44114



NUMBER:
 20192031898

SITE NAME:
 EV KIRKSEY

SITE ADDRESS:
 FIRE STATION DRIVE
 KIRKSEY, KY 42054

LEASE AREA:
 10000 SQ. FT.

PROPERTY OWNER:
 ROBERT CRICK
 JIMMIE LOUISE CRICK
 235 NORSWORTHY RD.
 KIRKSEY, KY 42054

SECTION/TOWNSHIP/RANGE
 SEC 35, T3, R3E

COUNTY:
 CALLOWAY COUNTY

PARCEL:
 021-0-0048-E

LATITUDE: 36° 40' 52.45"N
LONGITUDE: 88° 23' 53.22"W

DWG BY: GVV
CHKD BY: RMW
DATE: 10.25.22

NO. REVISION/ISSUE **DATE:**

1. ADJOINERS 10.16.23

TITLE:

500' RADIUS PLAN

SHEET:
1 OF 1

LAND SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT AND SURVEY WERE MADE UNDER MY SUPERVISION AND THAT THE ANGULAR AND LINEAR MEASUREMENTS AS WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



Ralph M. Wallem
 RALPH M. WALLEM

PLS NO. 2195

NOTE: THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

Environmental Services

Company is required to comply fully with all applicable environmental, industrial hygiene, and worker health and safety laws and regulations; Verizon Wireless directions and/or instructions contained in this Notice to Contractor. Company shall retain qualified, appropriately specialized (and/or licensed, as required) and adequately insured environmental firms for the completion of specialized work as applicable. Company shall evaluate whether a Health and Safety Plan (HASP) is warranted. Verizon Wireless shall have the final authority to approve the selection of such environmental firms performing services on its behalf. The construction bid package shall include qualifications of proposed firms with respect to the following required services:

Company shall ensure at all times that only appropriately trained qualified, and licensed workers perform the required environmental services.

Site Restrictions

It is the responsibility of Company to adhere to the following restrictions in response to the above environmental conditions.

Excavation/Construction	Yes
Excavation/Construction Type	Soil Erosion and Sedimentation Controls / Best Management Practices: To prevent any negative impact to the sensitive receptors, sediment and erosion control measures, such as silt fences, straw wattles, and other storm-water best management practices, must be implemented prior to and maintained throughout construction
Environmental Covenants	No
Diesel/Gasoline Restriction (DR)	No
Diesel Sensitive (DS)	Yes
NSTD399 Option Chosen	Outdoor Diesel within a Diesel Enhanced Enclosure (DEE)
Other Site Restrictions?	No

PROCEDURE: This signed original is to be returned to VZW Construction and uploaded to FUZE Site Project Management (SPM) Module along with the EES Close-Out



REV.	DATE	DESCRIPTION
A	03/09/23	ISSUED FOR 90% REVIEW
B	08/15/23	UPDATED PER NEW MIK TEMPLATE
0	09/20/23	FINAL CDS
1	10/17/23	UPDATED ADJOINERS MAP

REFERENCE ONLY

KIRKSEY
FIRE STATION DR
KIRKSEY, KY 42054

ENVIRONMENTAL
EVALUATION "NOTICE
TO CONTRACTOR"

ISSUED FOR:	
REVIEW	---
PERMIT	---
CONSTRUCTION	---
RECORD	---

DESIGNER	
PROJECT MANAGER	TTP
DESIGNER	SEK

JOB NO.
2019737.57

C-0

REVISION	DATE	DESCRIPTION
A	03/09/23	ISSUED FOR 90% REVIEW
B	08/15/23	UPDATED PER NEW MIK TEMPLATE
C	09/20/23	FINAL CDS
1	10/17/23	DATED ADJOINERS MAP

SCHEKS
 CHRISTOPHER J.
 29760
 LICENSED PROFESSIONAL ENGINEER
 STATE OF KENTUCKY
 10/17/2023

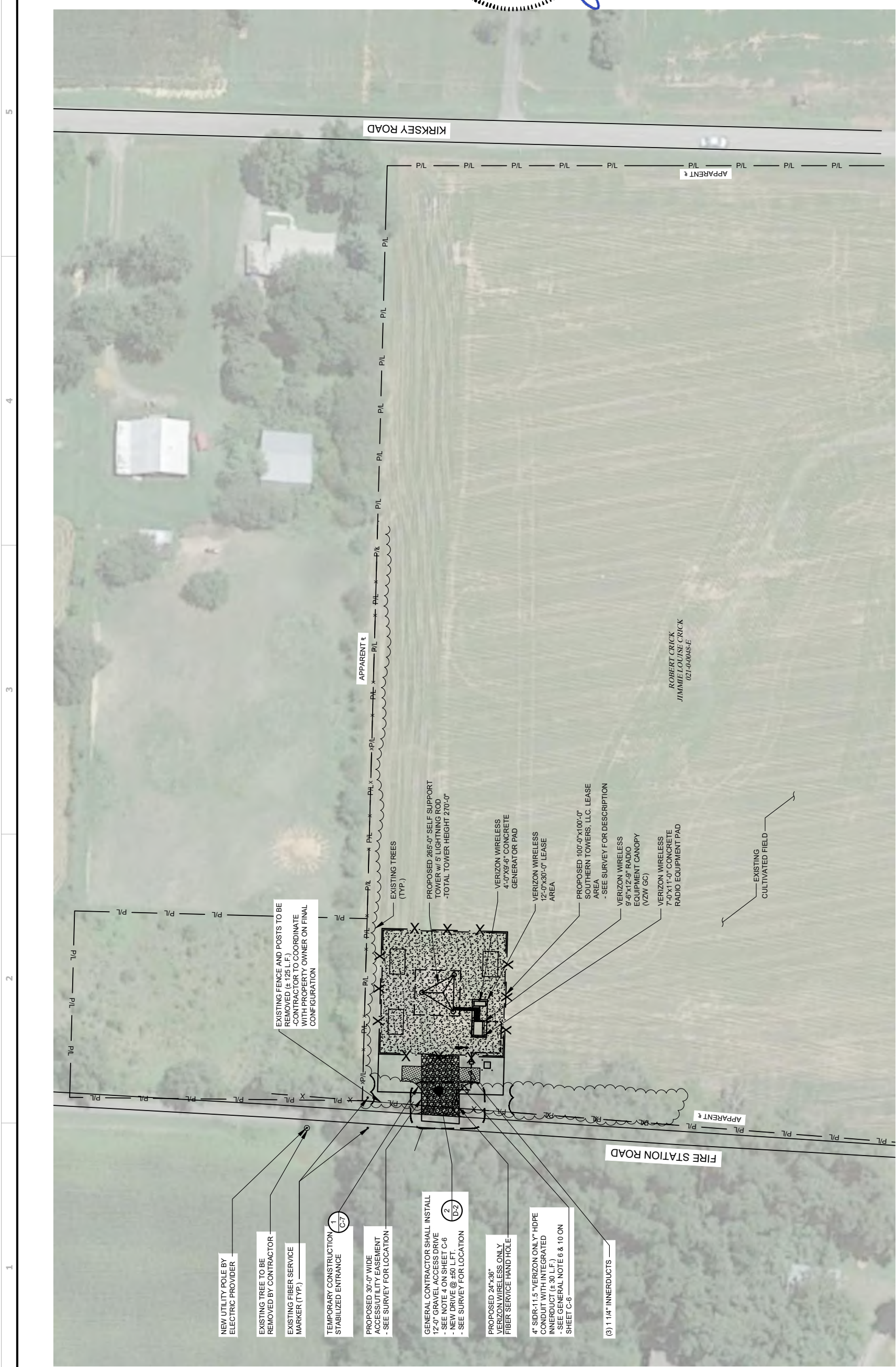
KIRKSEY
 FIRE STATION DR
 KIRKSEY, KY 42054
 OVERALL SITE PLAN W/
 AERIAL OVERLAY

ISSUED FOR:	
REVIEW	---
PERMIT	---
CONSTRUCTION	---
RECORD	---

PROJECT MANAGER	DESIGNER
TTP	SEK

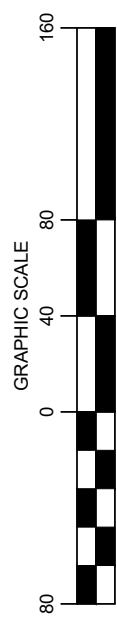
JOB NO.
2019737.57

C-1



**OVERALL SITE PLAN
 W/AERIAL OVERLAY**

SCALE: 1" = 80'



Kentucky 811
 Call before you dig.
 1-800-752-6007

PER KENTUCKY RELATIVE TO THE AGGRAVATED LAW TO DAMAGE WATER MAINS, UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



JOB NO.
2019737.57

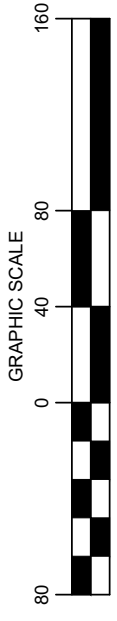
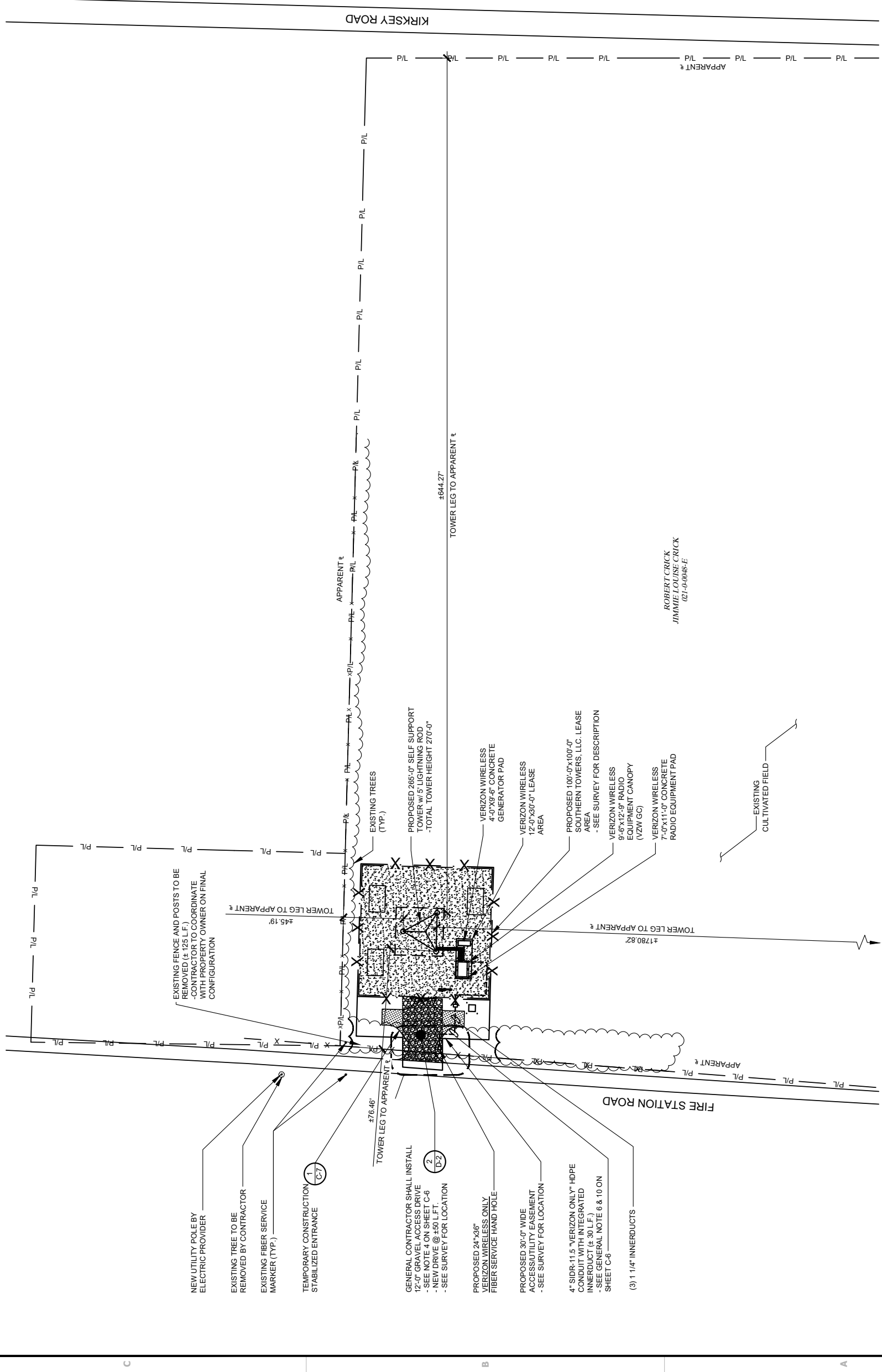
C-1A

ISSUED FOR:	DESIGNER
REVIEW	TTP
PERMIT	SEK
CONSTRUCTION	
RECORD	

KIRKSEY
 FIRE STATION DR
 KIRKSEY, KY 42054

OVERALL SITE PLAN W/
 PAD DISTANCE TO
 PROPERTY LINES

STATE OF KENTUCKY
 PROFESSIONAL ENGINEER
 LICENSED
 29760
 CHRISTOPHER J. SCHEKS
 10/17/2023 DATED ADJORNERS MAP
 09/20/23 FINAL CDS
 08/15/23 UPDATED PER NEW MIK TEMPLATE
 03/09/23 ISSUED FOR 90% REVIEW
 REV. DATE DESCRIPTION



OVERALL SITE PLAN W/ DISTANCE
 TO PROPERTY LINES



1 2 3 4 5

A B C

REV	DATE	DESCRIPTION
A	03/09/23	ISSUED FOR 90% REVIEW
B	08/15/23	UPDATED PER NEW MIK TEMPLATE
C	09/20/23	FINAL CDS
1	10/17/23	DATED ADJOINERS MAP

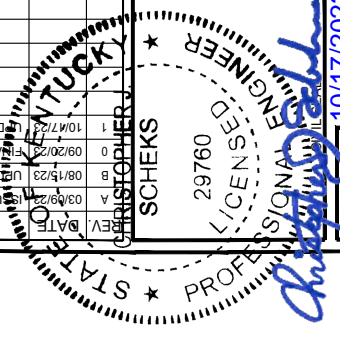
KIRKSEY
 FIRE STATION DR
 KIRKSEY, KY 42054
GRADING AND E&S
 CONTROL PLAN

ISSUED FOR:	REVIEW	PERMIT	CONSTRUCTION	RECORD
	---	---	---	---

PROJECT MANAGER	DESIGNER
TTP	SEK

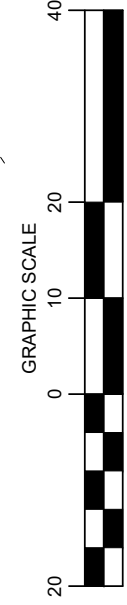
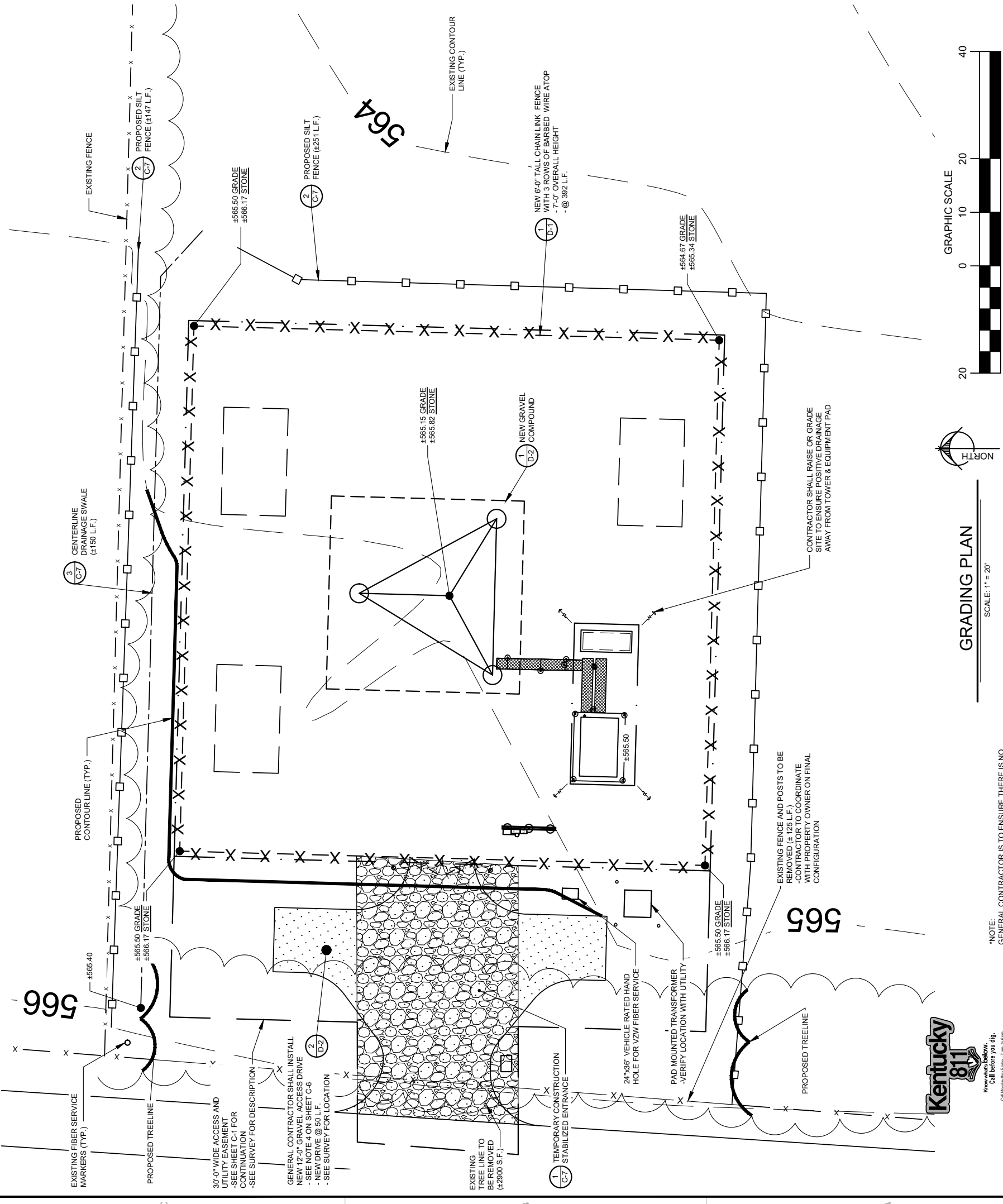
JOB NO.
2019737.57

C-2



LEGEND

	IRON PIN
	DRAINAGE LINE
	SPOT ELEVATION
	GRAVEL COMPOUND
	CENTER LINE
	NEW SILT FENCE LINE
	NEW SILT FENCE LINE
	POWER POLE/OVERHEAD ELEC/TELE.
	EDGE OF NEW DRIVE
	UNDERGROUND ELECTRICAL CONDUIT
	UNDERGROUND TELEPHONE CONDUIT
	EXISTING CONTOURS
	NEW CONTOURS
	FENCED COMPOUND
	CONCRETE
	ACCESS DRIVE



GRADING PLAN
 SCALE: 1" = 20'

*NOTE:
 GENERAL CONTRACTOR IS TO ENSURE THERE IS NO
 DISTURBANCE OF PROPERTY, SOIL, ETC. OUTSIDE
 OF THE STAKED LEASE AREA WITHOUT APPROVAL
 FROM CENTRAL STATES TOWER CONSTRUCTION
 MANAGER



1-800-752-6007
 PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW
 TO UNDERGROUND LOCATIONS (SERVICE TWO (2))
 WORKING DAYS BEFORE COMMENCING WORK.

1 2 3 4 5

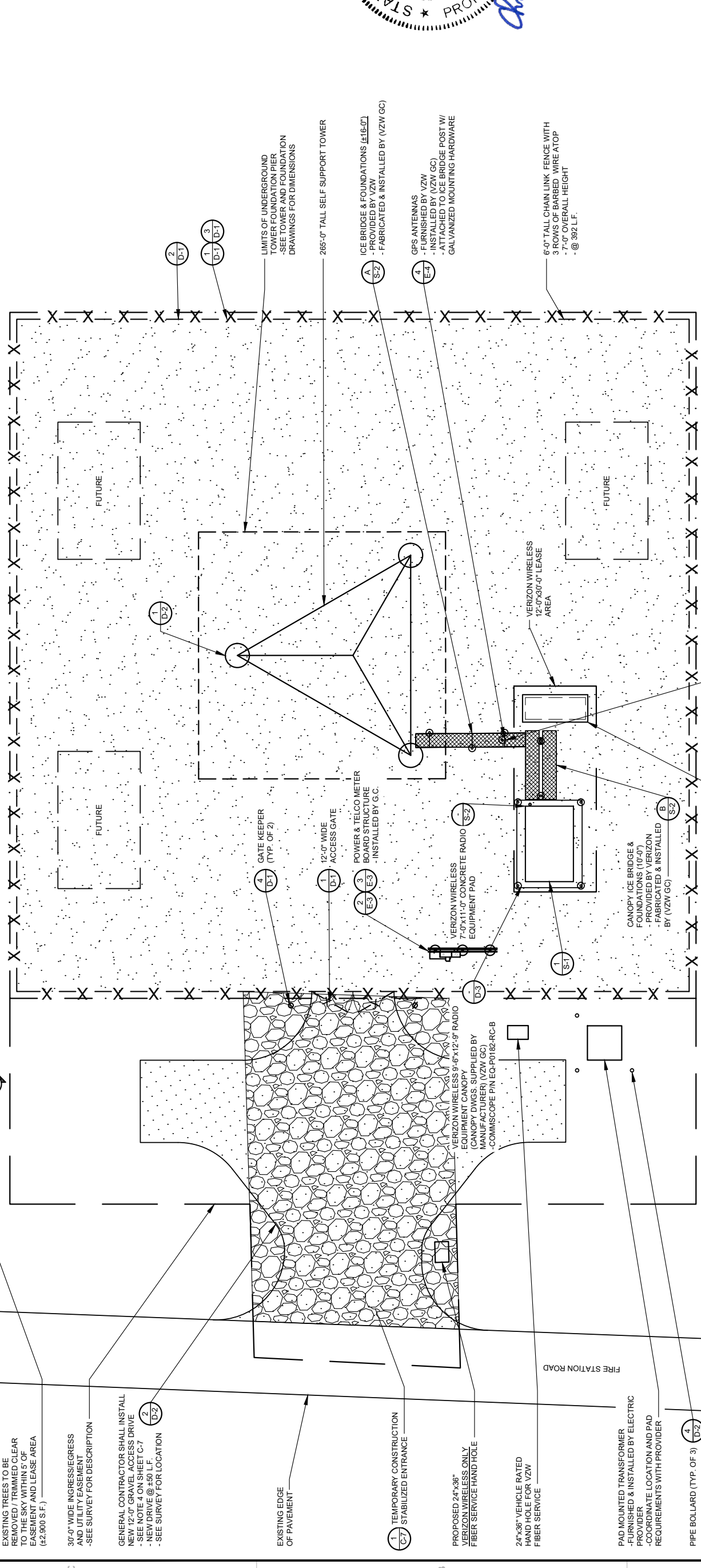
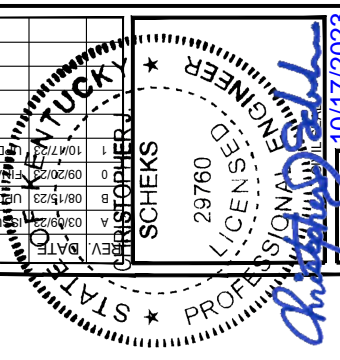
REVISION	DATE	DESCRIPTION
A	03/09/2023	ISSUED FOR 90% REVIEW
B	08/15/23	UPDATED PER NEW MIK TEMPLATE
C	09/20/23	FINAL CDS
1	10/17/2023	DATED ADJONERS MAP

KIRKSEY
 FIRE STATION DR
 KIRKSEY, KY 42054

ISSUED FOR:	REVIEW	PERMIT	CONSTRUCTION	RECORD
	---	---	---	---

2019737.57
 JOB NO.

C-3



LEGEND

●	IRON PIN
—	DRAINAGE LINE
+XXX.XX	SPOT ELEVATION
—	GRAVEL COMPOUND
—	CENTER LINE
— X — X — X — X —	NEW FENCE LINE
— X — X — X — X —	NEW SILT FENCE LINE
—	POWER POLE/OVERHEAD ELEC./TELE.
—	EDGE OF NEW DRIVE
—	UNDERGROUND ELECTRICAL CONDUIT
—	UNDERGROUND TELEPHONE CONDUIT
—	EXISTING CONTOURS
—	NEW CONTOURS
—	FENCED COMPOUND
—	CONCRETE
—	ACCESS DRIVE



DETAILED SITE PLAN

SCALE: 1/16" = 1'-0"

*NOTE:
 GENERAL CONTRACTOR IS TO INSURE
 THERE IS NO DISTURBANCE OF
 PROPERTY, SOIL, ETC. OUTSIDE OF THE
 STAKED LEASE AREA WITHOUT
 APPROVAL FROM VERIZON WIRELESS
 CONSTRUCTION MANAGER

Kentucky 811
 Know what's below.
 Call before you dig.
 1-800-752-6007
 PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW
 TO EXCAVATE WITHOUT NOTIFYING THE
 UTILITY LOCATING SERVICE AT LEAST 48
 HOURS BEFORE COMMENCING WORK.



Southern Towers
 250 SIGNAL MOUNTAIN ROAD, SUITE B
 CHATTANOOGA, TN 37405

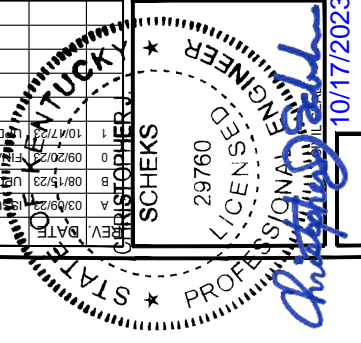
REVISION	DATE	DESCRIPTION
A	03/09/23	ISSUED FOR 90% REVIEW
B	08/15/23	UPDATED PER NEW MIK TEMPLATE
C	09/20/23	FINAL CDS
1	10/17/23	UPDATED ADJOINERS MAP

KIRKSEY
 FIRE STATION DR
 KIRKSEY, KY 42054

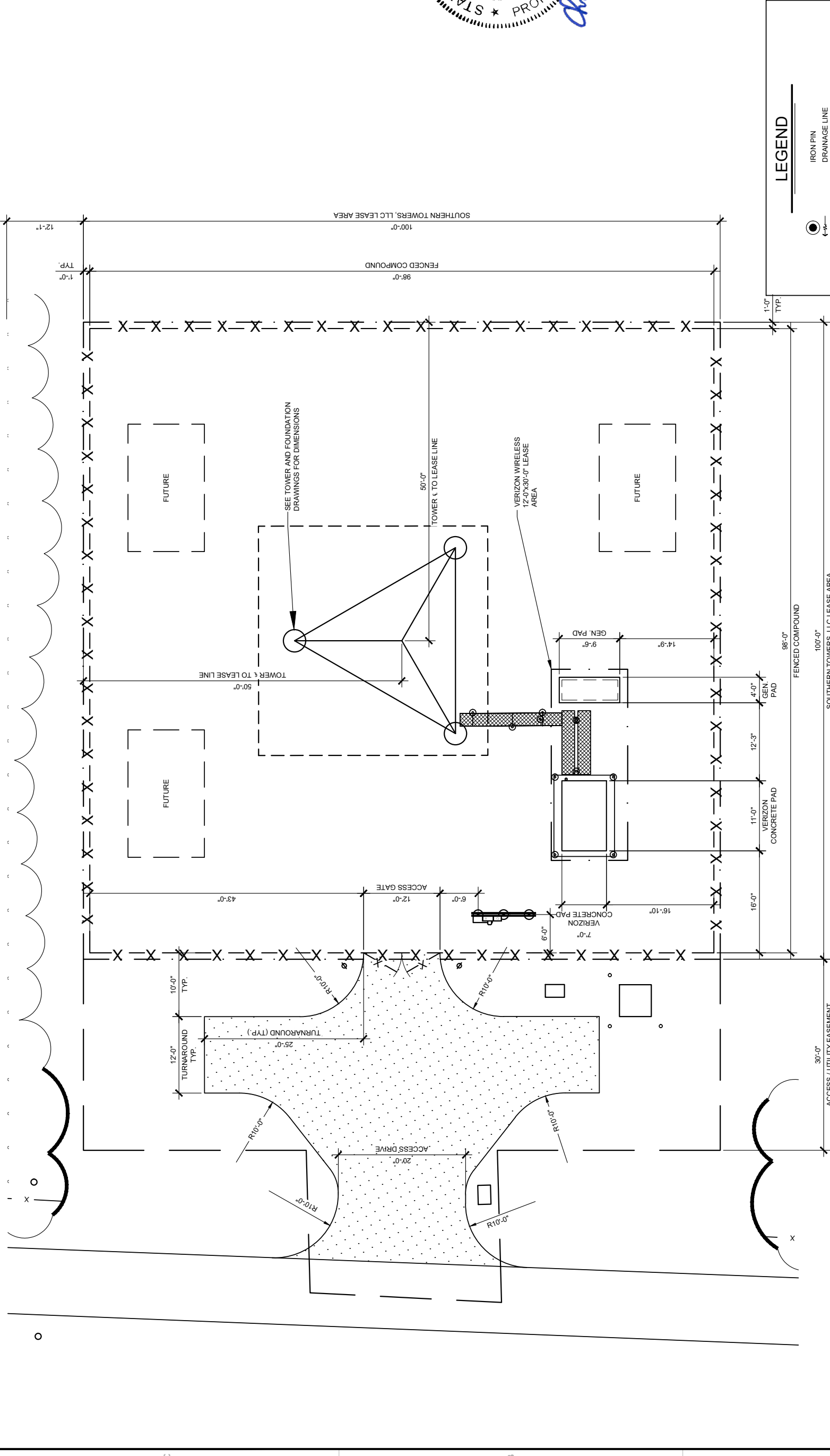
ISSUED FOR:	REVIEW	PERMIT	CONSTRUCTION	RECORD
	---	---	---	---

PROJECT MANAGER: DESIGNER
 TTP: SEK
 JOB NO: 2019737.57

C-4



1 2 3 4 5



LEGEND

	IRON PIN
	DRAINAGE LINE
	SPOT ELEVATION
	GRAVEL COMPOUND
	CENTER LINE
	NEW FENCE LINE
	NEW SILT FENCE LINE
	POWER POLE/OVERHEAD ELEC./TELE.
	EDGE OF NEW DRIVE
	UNDERGROUND ELECTRICAL CONDUIT
	UNDERGROUND TELEPHONE CONDUIT
	EXISTING CONTOURS
	NEW CONTOURS
	FENCED COMPOUND
	CONCRETE
	ACCESS DRIVE

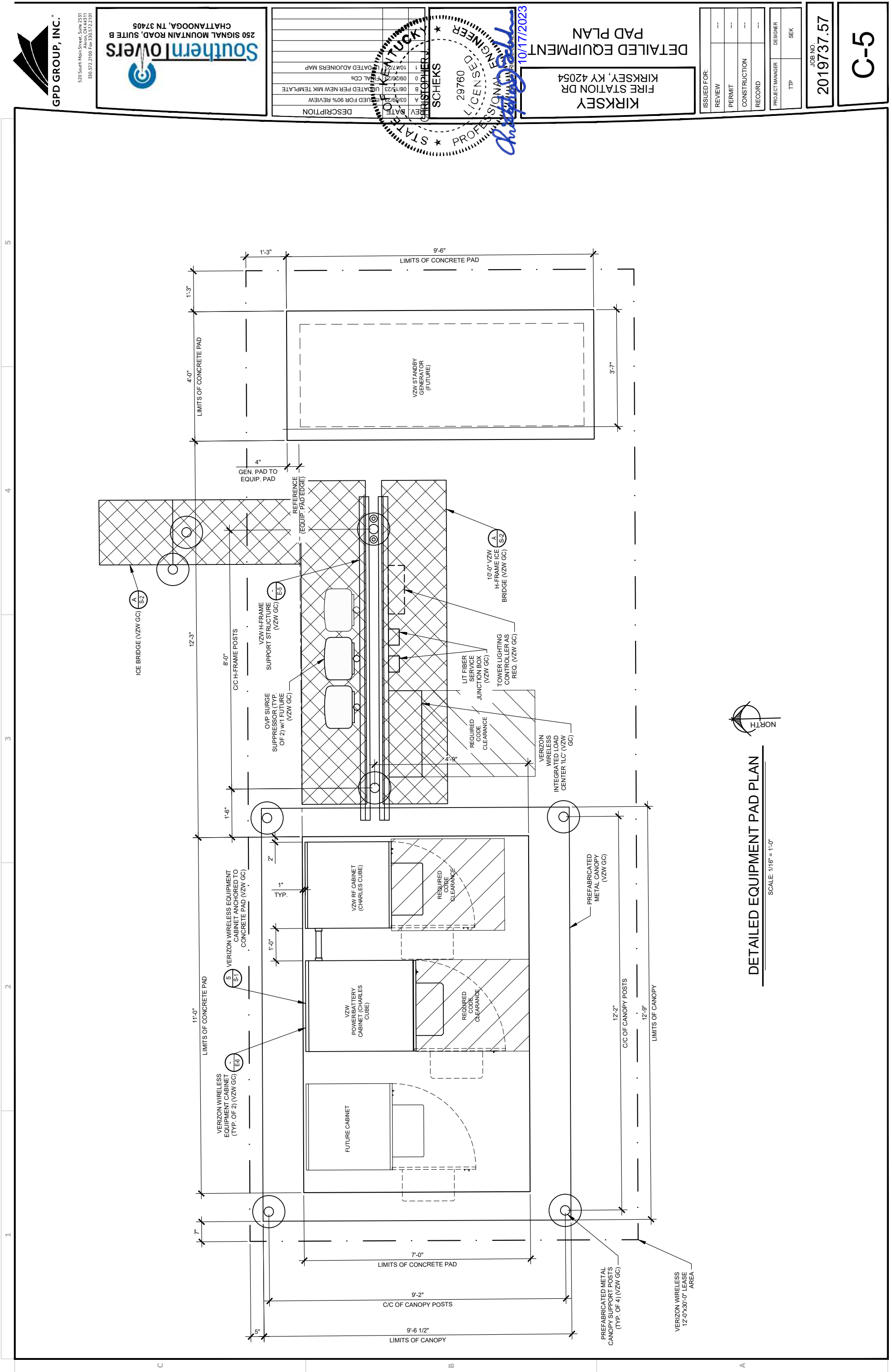


DIMENSIONED SITE PLAN

SCALE: 1/16" = 1'-0"

NOTE:
 GENERAL CONTRACTOR IS TO ENSURE
 THERE IS NO DISTURBANCE OF
 PROPERTY, SOIL, ETC. OUTSIDE OF THE
 STAKED LEASE AREA WITHOUT
 APPROVAL FROM VERIZON WIRELESS
 CONSTRUCTION MANAGER

Kentucky 811
 Know what's below. Call before you dig.
 Call Made to Order - 7 am to 6 pm
1-800-752-6007
 PER NEW YORK STATE LAW
 TO LOCATE WITHOUT NOTICING THE
 UNDERGROUND LOCATION SERVICE TWO (2)
 WORKING DAYS BEFORE COMMENCING WORK.



DETAILED EQUIPMENT PAD PLAN

SCALE: 1/16" = 1'-0"



ISSUED FOR:	REVIEW	PERMIT	CONSTRUCTION	RECORD
	---	---	---	---
PROJECT MANAGER	DESIGNER	TTP	SEK	

JOB NO.
2019737.57

C-5

KIRKSEY
FIRE STATION DR
KIRKSEY, KY 42054
DETAILED EQUIPMENT
PAD PLAN

STATE OF KENTUCKY
 PROFESSIONAL ENGINEER
 LICENSE NO. 29760
 CHRISTOPHER J. TUCKER
 10/17/2023

REVISION	DATE	DESCRIPTION
A	03/09/23	ISSUED FOR 90% REVIEW
B	08/15/23	UPDATED PER NEW MIK TEMPLATE
C	09/20/23	FINAL CDS
1	10/17/23	DATED ADJOINERS MAP

Southern Towers
 250 SIGNAL MOUNTAIN ROAD, SUITE B
 CHATTANOOGA, TN 37405

520 South Main Street, Suite 2531
 Akron, OH 44311
 330.572.2100 Fax 330.572.2101



GENERAL SITE CONSTRUCTION NOTES

1. SCHEDULE:
THE CONSTRUCTION OF THE SITE REQUIRES A CERTAIN SEQUENCE OF EVENTS TO MINIMIZE CONSTRUCTION TIME REQUIRED UNTIL AVAILABILITY OF CELLULAR TELEPHONE SERVICE. VERIFY SCHEDULE DURING BID WALK.

2. TOWER OWNER REPRESENTATIVE:
SOUTHERN TOWERS, LLC
250 SIGNAL MOUNTAIN ROAD, SUITE B
CHATTAHOOGA, TN 37405
CONTACT: TBD
PHONE: TBD
MOBILE: TBD
E-MAIL: TBD

PROPERTY OWNER REPRESENTATIVE:
ROBERT CRICK
JIMMIE LOUISE CRICK
3215 KIRKSEY BLDG ROAD
KIRKSEY, KY 42064
PHONE: TBD
MOBILE: TBD
E-MAIL: TBD

3. ANTENNA INSTALLATION:
THE VERIZON WIRELESS CONTRACTOR (VZW GC) INSTALLING THE PLATFORM SHALL ENSURE THAT THE PLATFORM IS ALIGNED BASED ON THE VERIZON WIRELESS RF PLAN. DURING THIS WORK, THE GENERAL CONTRACTOR SHALL BE LIMITED TO THE WORK WHICH CAN BE PERFORMED OUTSIDE THE VICINITY OF THE TOWER.

4. ACCESS DRIVEWAY:
THE GENERAL CONTRACTOR SHALL CONSTRUCT THE ACCESS DRIVE PER THE ALIGNMENT AS SHOWN ON THESE DRAWINGS. IF ANY AREA OF CONSTRUCTION REQUIRES ADDITIONAL FILL OF AGGREGATE STONE THAN SHOWN ON THE DRAWINGS, THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER FOR APPROVAL OF THE SIZE, TYPE AND QUANTITY OF STONE/FILL NECESSARY AND SHALL NOT BE USED UNTIL APPROVAL BY THE ENGINEER. THE GENERAL CONTRACTOR SHALL ALSO OBTAIN DRIVE PERMIT FOR NEW ACCESS DRIVE.

5. PREFABRICATED EQUIPMENT CANOPY:
THIS VERIZON WIRELESS CONTRACTOR (VZW GC) SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS FOR THE PROPER LIFTING, TRANSPORTING AND ASSEMBLY OF THE PREFABRICATED EQUIPMENT CANOPY FROM THE TRANSPORT TRUCK BED TO THE FINAL POSITION ON THE CONCRETE FOUNDATION. EXTREME CAUTION SHALL BE TAKEN IN THE INSTALLATION OF THE CANOPY TO AVOID CONTACT WITH EXISTING OVERHEAD UTILITY LINES. THE VERIZON WIRELESS CONTRACTOR (VZW GC) IS RESPONSIBLE FOR ATTACHING, SECURING OR ASSEMBLING ANY ACCESSORY OR LOOSE ITEMS THAT ARE SHIPPED WITH THE PREFABRICATED EQUIPMENT CANOPY SHALL INCLUDE THIS WORK IN THE CANOPY INSTALLATION PORTION OF THE BID.

THE VERIZON WIRELESS CONTRACTOR (VZW GC) IS RESPONSIBLE FOR ATTACHING, SECURING OR ASSEMBLING ANY ACCESSORY OR LOOSE ITEMS THAT ARE SHIPPED WITH THE PREFABRICATED EQUIPMENT CANOPY AND SHALL INCLUDE THIS WORK IN THE CANOPY INSTALLATION PORTION OF THE BID.

6. UTILITIES:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION AND PROPER BACKFILLING OF TRENCHES AND PROPER CONDUIT REQUIRED FOR UNDERGROUND TELEPHONE & ELECTRICAL UTILITIES. ALL BRANCHING SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH M D-1587.

THE CONTRACTOR SHALL RUN AN ELECTRICAL TRENCH WITH 2 1/2" CONDUIT AND DETECTABLE PULL TAPE FROM THE NEW RADIO EQUIPMENT PAD AND END AT THE NEW METER BOARD STRUCTURE. THE ELECTRIC PROVIDER SHALL THEN RUN (2) TWO 4" CONDUIT WITH PULL TAPE FROM THE METER BOARD TO THE NEW PAD MOUNTED TRANSFORMER LOCATION & SECONDARY.

THE ELECTRICAL PROVIDER SHALL THEN RUN UNDERGROUND CONDUIT FROM THE NEW METER BOARD TO THE VERIZON RURAL ELECTRIC BUREAU. THE CONTRACTOR SHALL VERIFY LOCATION OF KENTUCKY RURAL ELECTRIC BEFORE BEGINNING CONSTRUCTION TO VERIFY LOCATION OF CONDUIT AND TRANSFORMER. CONDUITS MUST HAVE A MINIMUM DEPTH OF 36" (CONTRACTOR SHALL CONTACT ELECTRIC PROVIDER TO HAVE TRENCH AND CONDUIT INSPECTED BEFORE THE TRENCH IS COVERED. THE ELECTRIC PROVIDER SHALL SUPPLY SERVICE TO THE NEW METER BOARD STRUCTURE. THE CONTRACTOR SHALL CONTACT WEST KENTUCKY RURAL ELECTRIC TO SET UP AN INSPECTION OF THE TRENCHES BEFORE THEY ARE BACKFILLED. THE CONTRACTOR SHALL PROPERLY BACKFILL THE TRENCHES AFTER INSPECTION AND SETTLEMENT. CONTACT ELECTRIC PROVIDER THREE TO FOUR WEEKS PRIOR TO CONSTRUCTION FOR NEW SERVICE AND COORDINATION OF ACCESS TO SITE. THE CONTRACTOR SHALL CONTACT REX COFFEY FOR A COPY OF THEIR SPECIFICATIONS BEFORE CONSTRUCTION.

THE TOWER OWNER SHALL ENSURE PERMANENT ELECTRIC POWER IS AVAILABLE FOR VERIZON WIRELESS AT THE METER BASE PRIOR TO THE SITE BEING RELEASED TO VERIZON WIRELESS AS TENANT READY.

THE VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL RUN ELECTRICAL CONDUITS FROM NEW METER CENTER TO NEW VZW INTEGRATED LOAD CENTER WITHIN TOWER OWNER INSTALLED 2 1/2" CONDUIT CONTACT ELECTRIC PROVIDER TO HAVE NEW METER INSTALLED.

THE VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL BE RESPONSIBLE FOR THE ORDERING AND COORDINATING THE DELIVERY OF A FIBER OPTIC SERVICE LINE TO THE RADIO EQUIPMENT ENCLOSURE, COORDINATE WITH THE FIBER PROVIDER AND THE VERIZON WIRELESS FACILITY ENGINEER.

1. ONE 4" SDR-11.5 HDPE FIBER CONDUITS W/INTEGRATED INNERDUCTS SHALL BE INSTALLED FROM HANDHOLE OUTSIDE COMPOUND MEET POINT AT THE PUBLIC RIGHT-OF-WAY WITHIN UTILITY EASEMENT WITH PULL TAPE THE HANDHOLE MODEL AS FOLLOWS:
• THE VERIZON FIBER CONDUIT HANDHOLES SHALL BE OLDCASTLE INFRASTRUCTURE MODEL 24-38 1480 PC24-36-30 T22 - VERIZON LOGO OR QUATZ/TEI/HUBBELL POWER SYSTEMS MODEL P62438Z1857B4 ASSY T22 SW 08 24x36x30 VERIZON V, OR APPROVED EQUALS. ALTERNATIVE HANDHOLES MAY BE USED IF MEETING THE DESIGNATED LOADING AND HAVING DIMENSIONS OF AT LEAST 2'x3'x2.5". ALL VERIZON HANDHOLES TO HAVE "VERIZON" LOGO ON COVER.

• THE GENERAL USE FIBER CONDUIT HANDHOLE SHALL BE A MODEL AS APPROVED BY THE CONSTRUCTION MANAGER.

2. CONTRACTOR SHALL PLACE ADDITIONAL HANDHOLES ALONG ROUTE, AS NECESSARY, SO THAT SPACING BETWEEN HANDHOLES IS NO GREATER THAN 500 FEET.
3. CONTRACTOR SHALL PLACE (1) COPPERHEAD INDUSTRIES ORANGE TRACER WIRE (PART NO. 1230NH-S) OR APPROVED EQUIVALENT ABOVE PROPOSED FIBER CONDUITS)

4. ONE 4" SDR-11.5 HDPE FIBER CONDUIT W/INTEGRATED INNERDUCTS SHALL BE INSTALLED FROM VERIZON WIRELESS ONLY HANDHOLE OUTSIDE COMPOUND TO VERIZON WIRELESS EQUIPMENT PAD LOCATION (PER PLANS)

ELECTRIC SERVICE PROVIDED BY:

WEST KENTUCKY RURAL ELECTRIC
ADDRESS: 1218 W. BROADWAY
MAYFIELD, KY 42066
CONTACT: REX COFFEY
PHONE: (270) 251-8243
EMAIL: RCOFFEY@WKRECC.COM

FIBER OPTIC SERVICE PROVIDED BY:
FIBER PROVIDER TO BE DETERMINED
BY VERIZON WIRELESS

7. SITE GRADING

A. UNIFORMLY GRADE AREA TO BE SMOOTH SURFACE FREE FROM IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTION, TOP LINES AND ELEVATIONS INDICATED.

B. COMPOUND SURFACE GRADES ARE TO BE SLOPED TO DIRECT WATER AWAY FROM EQUIPMENT PAD AND TOWER TO PREVENT STANDING AND PONDING WATER.

C. COMPOUND SURFACE SHALL BE COMPACTED TO A 95% MAXIMUM DRY DENSITY TO ALLOW PROPER STABILIZATION FOR ACCESS TO ALL CUSTOMERS. DENSITY TESTING MAY BE REQUIRED AT VERIZON WIRELESS DISCRETION DUE TO QUESTIONABLE COMPACTION OF FINISH SURFACE GRADE OR SUB-GRADE.

D. DITCHES/VALES AROUND THE COMPOUND AREA AND ALONG ACCESS ROAD SHALL BE CONSTRUCTED SO TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING GRADE/SLOPE AND NEW PROPOSED GRADES.

E. SITE GRADING AND DRAINAGE SHOULD BE CONSTRUCTED TO PREVENT WATER FROM ENTERING THE COMPOUND SURFACE OR THE ACCESS ROAD SUB-GRADE.

F. MOISTURE CONTROL - UNIFORMLY MOISTEN OR AERATE SUB-GRADE AND EACH SUBSEQUENT FILL OR BACK FILL LAYER BEFORE COMPACTION TO WITHIN 90% OF OPTIMUM MOISTURE CONTENT. DO NOT PLACE BACK FILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN OR CONTAIN FROST, SNOW OR ICE.

G. STOCKPILING MATERIAL (TOP SOIL OR FILL DIRT) - SHOULD BE PLACED IN AN AREA THAT CAN BE STOCKPILED TO PREVENT WATER, SNOW, OR ICE FROM EFFECTING MOISTURE CONTENT. STOCKPILES MAY HAVE TO BE COVERED TO PREVENT ADDITIONAL MOISTURE FROM ACCUMULATING SO ACCEPTABLE FILL CAN BE USED.

H. DEWATERING - PREVENT SURFACE WATER AND SUBSURFACE OR GROUND WATER FROM ENTERING EXCAVATIONS. FROM PONDING ON PREPARED SUB-GRADE, AND FROM FLOODING PROJECT OR BUILD AREA.

I. EROSION CONTROL - MEASURES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.

J. ALL INLETS, DRAINS, PIPES, SWELLS, AND ROADS SHALL BE KEPT CLEAN AND FREE OF DIRT AND SILT.

K. GEOTEXTILE FABRIC - AFTER PLACEMENT AND COMPACTION OF FILL WITHIN THE WORK AREA AND BEFORE THE PLACEMENT OF LIFSTONE AGGREGATE. (SEE SITE AREA SURFACING DETAIL D-1). THE ENTIRE DISTURBED WORK AREA SHALL BE COVERED WITH GEOTEXTILE FABRIC. THIS FABRIC SHALL BE "TENACATE (MIRAFI 500X) WOVEN ENGINEERING FABRIC" INSTALLED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.

8. TRASH REMOVAL & SANITATION

THE GENERAL CONTRACTOR AND VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL REMOVE ALL TRASH AS CREATED BY HIMSELF AND HIS SUBCONTRACTORS. TRASH SHALL BE REMOVED FROM THE SITE IN A TIMELY FASHION TO A LEGAL DISPOSAL AREA. THE GENERAL CONTRACTOR SHALL ALSO REMOVE ALL TRASH CREATED BY OTHER CONTRACTORS INCLUDING PERMITTED, CARDBOARD BOXES AND PACKING, NO BURNING OR BURYING OF TRASH IS PERMITTED.

THE GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN A PORTABLE TOILET FOR THE DURATION OF THE CONSTRUCTION PROJECT.

9. TOWERS

A. THE GENERAL CONTRACTOR SHALL VERIFY THE EQUIPMENT PAD FOUNDATION IS LOCATED CORRECTLY WITH RESPECT TO THE TOWER FOUNDATION. THE CONTRACTOR MUST NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO POURING CONCRETE.

B. TOWER & FOUNDATION DESIGN ARE BY OTHERS FOR TOWER OWNER. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY IN WRITING FROM TOWER OWNER THAT THE TOWER IS STRUCTURALLY SUFFICIENT TO SUPPORT ALL LOADINGS AS OUTLINED IN THESE DOCUMENTS. TOWER AND FOUNDATION DESIGN SHALL BE PERFORMED BY A LICENSED ENGINEER.

C. THE GENERAL CONTRACTOR SHALL VERIFY THE TOP OF FOUNDATION MATCHES THE PAA APPROVAL LETTER.

10. EXCAVATION OF UTILITIES

A. FIELD VERIFY THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATING IN THE VICINITY OF THE SITE. ALL EXCAVATIONS SHALL BE MADE BY HAND OVER OR UNDER OR IMMEDIATELY ADJACENT TO ANY EXISTING UTILITIES & GROUNDING.

B. ALL UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION ON THIS PROJECT. CONTACT UNDERGROUND UTILITY PROTECTION SERVICE BEFORE YOU DIG AT 1-800-752-6007 OR 811.

C. EXISTING UTILITIES ARE SHOWN FROM THE SURVEY AND ARE NOT NECESSARILY COMPLETE AND ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE, EXPOSE AND DETERMINE IF CONFLICTS EXIST WITH THE NEW IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER (AKE FIRM) IN ORDER TO RESOLVE ANY CONFLICTS.

11. CONTRACTORS LICENSE:

THE GENERAL CONTRACTOR, VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) AND ALL OF THEIR SUBCONTRACTORS THAT DO ANY WORK ON THIS PROJECT SHALL BE CURRENTLY LICENSED TO PERFORM WORK IN THE LOCATION OF THIS SITE. PROOF OF LICENSES SHALL BE SUPPLIED TO VERIZON WIRELESS PRIOR TO THE COMMENCEMENT OF ANY WORK.

12. SEEDING:

ALL DISTURBED AREAS SHALL BE REPAIRED AND SEED BY THE GENERAL CONTRACTOR, UNLESS OTHERWISE NOTED. SEED DISTURBED AREAS W/4 POUNDS/1000 SQ. FT. - 60% KENTUCKY BLUEGRASS, 18% CREEPING RED FESCUE, 22% ANNUAL RYEGRASS.

13. TRAFFIC CONTROL:

THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ALL REQUIRED TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES OR GOVERNING LOCAL AGENCIES.

14. CONSTRUCTION STAKING:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING NEEDED TO COMPLETE ALL THE CONSTRUCTION SHOWN HEREON. CONTACT DESIGN ENGINEER TO SCHEDULE CONSTRUCTION STAKING.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PROPERTY RESULTING FROM THE CONSTRUCTION ACTIVITIES, INCLUDING BUT NOT LIMITED TO PAVEMENT, FINISHED GRADES, LANDSCAPING, BUILDINGS, SURVEY MARKERS, FIELD TILES, CULVERTS, ETC.

16. IN THE EVENT ANY DISCREPANCIES OR ERRORS ARE FOUND ON THESE PLANS OR ANY CONFLICT OR PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE GENERAL CONTRACTOR OR VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE GENERAL CONTRACTOR OR VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) FOR WORK HAVING TO BE REDONE FOR GRADE OR GEOMETRIC DISCREPANCIES IF NOTICE TO THE ENGINEER HAS NOT BEEN PROVIDED. THE ENGINEER RESERVES THE RIGHT TO MAKE MINOR ADJUSTMENTS AS NECESSARY TO ACCOMPLISH THE INTENT OF THESE PLANS.

17. ALL SITE WORK AND CONSTRUCTION SHALL CONFORM TO ANY AND ALL APPLICABLE CODES AND VERIZON WIRELESS STANDARDS AND SPECIFICATIONS.

18. ALL ELEVATIONS AND TOPOGRAPHIC INFORMATION WAS TAKEN FROM A SURVEY SUPPLIED TO GPD GROUP, INC BY BENCHMARK SERVICES, INC. GPD GROUP, INC HAS NOT VERIFIED THIS INFORMATION AND DOES NOT WARRANT ANY INFORMATION SUPPLIED BY OTHERS.

19. THE GENERAL CONTRACTOR SHALL MAINTAIN A COMPLETE AS-BUILT SET OF PLANS AND CONDITIONS, AND SUBMIT SAME TO THE ENGINEER WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION, AS BUILT PLANS SUBMITTED TO THE ENGINEER SHALL INCLUDE A DRAWING WITH DIMENSIONS SHOWING THE LOCATION OF THE UNDERGROUND UTILITIES, GROUNDING GRID, EQUIPMENT PAD, TOWER FOUNDATION, TOWER PLATFORM ORIENTATION, AND FENCE WITHIN THE LEASE AREA OR PROPERTY AND BE CERTIFIED BY A LICENSED PROFESSIONAL SURVEYOR.

20. THE GENERAL CONTRACTOR AND VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL BE RESPONSIBLE FOR NOTIFICATION OF ALL GOVERNING AGENCIES THAT REQUIRE SITE INSPECTION OF THE WORK AND/OR SIMPLY NOTIFICATION.

21. THE GENERAL CONTRACTOR AND VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL BE RESPONSIBLE FOR NOTIFICATION AND COORDINATION OF ALL TESTING AGENCIES THAT REQUIRE SITE INSPECTION OR TESTING OF THE WORK AS DIRECTED IN THESE PLANS, GOVERNING AGENCIES AND ALL APPLICABLE CODES.

22. PRIOR TO THE SUBMISSION OF BIDS, THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL VERIFY ALL DETAILS AND SCHEDULES ON THE DRAWINGS AND SPECIFICATIONS PROVIDED BY THE OWNER, FOR MEANING OF ABBREVIATIONS AND ADDITIONAL REQUIREMENTS AND INFORMATION, CHECK ALL CONSTRUCTION DOCUMENTS TO INCLUDE, BUT NOT LIMITED TO, GEOTECHNICAL REPORT, STRUCTURAL ANALYSIS, TOWER, MECHANICAL AND ELECTRICAL DRAWINGS, FOR SCALE, SPACE LIMITATIONS, DOOR SWINGS, ADJACENT CARRIER EQUIPMENT COORDINATION AND ADDITIONAL INFORMATION, ETC. REPORT ANY DISCREPANCIES, CONFLICTS, ETC. TO THE OWNER BEFORE SUBMITTING BIDS.

24. WORK SITE SAFETY:

A. CONSTRUCTION WORK PRESENTS UNIQUE THREATS TO HEALTH AND SAFETY. THE CONTRACTOR AND VERIZON WIRELESS CONTRACTOR (VZW GC) ARE RESPONSIBLE TO EDUCATE THEIR WORK FORCE OF THESE DANGERS AND LIMIT THEIR EXPOSURE TO HAZARDS. THIS EDUCATION SHALL INCLUDE BUT NOT BE LIMITED TO APPLICABLE TRAINING COURSES AND CERTIFICATIONS, PROPER PERSONAL PROTECTIVE EQUIPMENT USAGE, DAILY TAILGATE MEETINGS AND ANY OTHER PREVENTATIVE MEASURES WHICH MAY BE REASONABLY EXPECTED. THE CONTRACTOR, VERIZON WIRELESS CONTRACTOR (VZW GC) AND ALL SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS AND ANY PROPERTY OCCUPANTS WHO MAY BE AFFECTED BY THE WORK UNDER CONTRACT. ALL CONTRACTORS SHALL REVIEW ALL LANDOWNER, PRIME CONTRACTOR, CARRIER, OSHA, AND LOCAL SAFETY GUIDELINES AND AT ALL TIMES SHALL CONFORM TO THE MOST RESTRICTIVE OF THESE STANDARDS TO ENSURE A SAFE WORKPLACE.

B. TOWER WORK PRESENTS ADDITIONAL THREATS TO HEALTH AND SAFETY. ALL TOWER WORKERS WORKING ON A TOWER MUST BE ADEQUATELY TRAINED AND MONITORED TO ENSURE THAT SAFE WORK PRACTICES ARE LEARNED AND FOLLOWED. AS REQUIRED BY OSHA, WHEN WORKING ON EXISTING COMMUNICATION TOWERS, EMPLOYEES MUST BE PROVIDED WITH APPROPRIATE FALL PROTECTION, TRAINED TO USE THIS FALL PROTECTION PROPERLY, AND THE USE OF FALL PROTECTION MUST BE CONSISTENTLY SUPERVISED AND ENFORCED BY THE CONTRACTOR.

C. ALL SAFETY EQUIPMENT SHALL BE INSPECTED ACCORDING TO ALL OSHA AND INDUSTRY SCHEDULED INTERVALS AND ALL INSPECTIONS SHALL BE DOCUMENTED PER APPLICABLE CODES AND STANDARDS.


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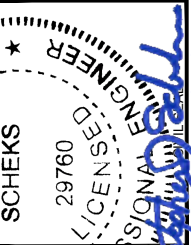


520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2106 Fax 330.572.2101



250 SIGNAL MOUNTAIN ROAD, SUITE B
CHATTANOOGA, TN 37405

REVISION	DATE	DESCRIPTION
A	03/19/2023	REMOVED FOR 90% REVIEW
B	08/15/23	UPDATED PER NEW MIK TEMPLATE
C	09/20/23	FINAL CDCs
1	10/17/23	DATED ADVISERS MAP



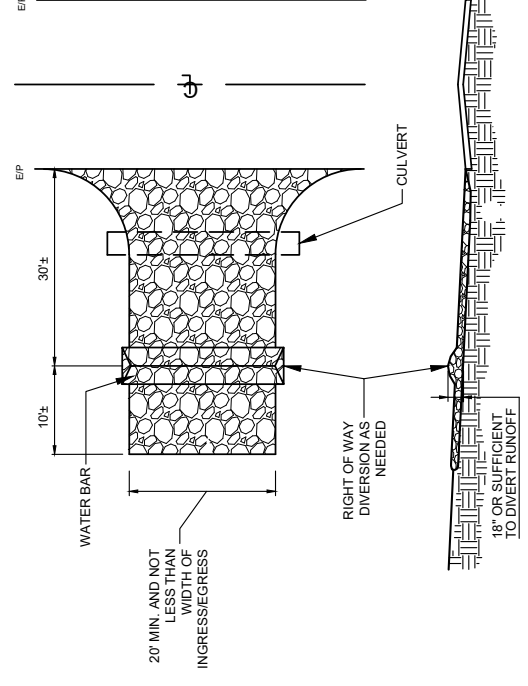
KIRKSEY FIRE STATION DR KIRKSEY, KY 42054	
ISSUED FOR:	---
REVIEW	---
PERMIT	---
CONSTRUCTION	---
RECORD	---

GENERAL SITE CONSTRUCTION NOTES

PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO: 20191737.57

C-6

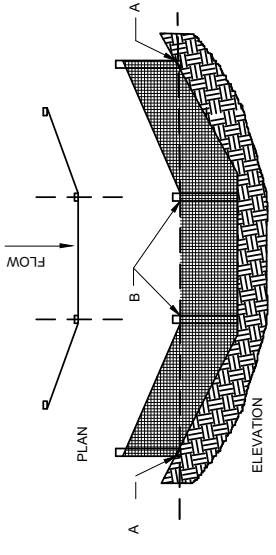
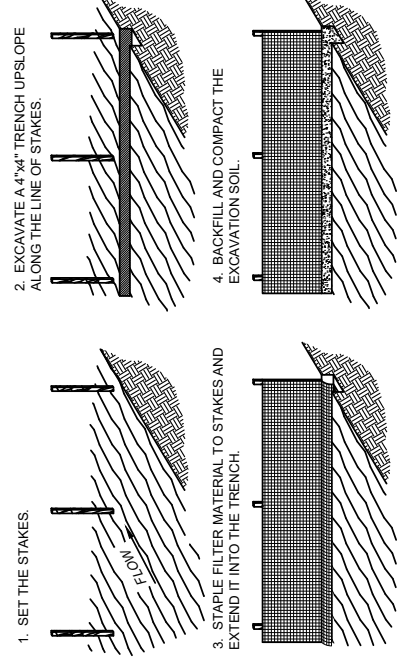


- NOTES:**
- STONE SIZE - TWO INCH STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
 - THE CONSTRUCTION ENTRANCE SHALL COINCIDE WITH THE PROPOSED DRIVE AS SHOWN ON THE PLAN.
 - PAVEMENT THICKNESS - STONE LAYER SHALL BE AT LEAST 6" THICK DRIVEWAY WIDTH - THE ENTRANCE SHALL BE AT LEAST 10' WIDE BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS/EGRESS OCCURS.
 - BEDDING - A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL HAVE A GRAB TENSILE STRENGTH OF AT LEAST 200 LBS. AND A MULLEN BURST STRENGTH OF AT LEAST 190 LBS.
 - CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
 - WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
 - MAINTENANCE - TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
 - CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE TRACKING MATERIALS AND PREVENT OFF SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SHALL BE RESTRICTED FROM MUDDY AREAS.

TEMPORARY STABILIZED CONSTRUCTION ENTRANCE

SCALE: N.T.S.

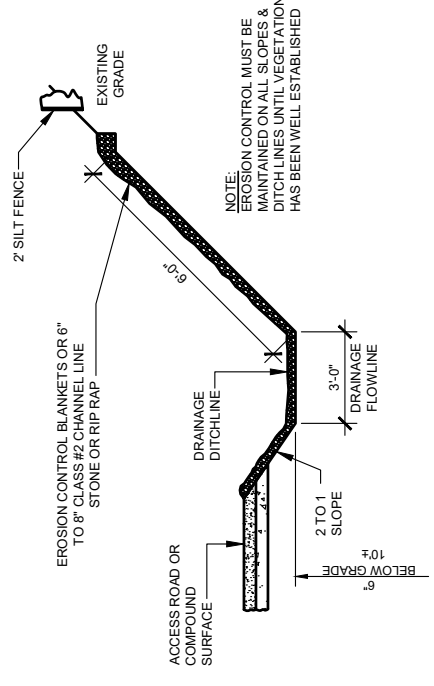
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C-7



SILT FENCE DETAIL

SCALE: N.T.S.

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- NOTES:**
- WHEN FACED WITH SLOPES LESS THAN 2 TO 1 SLOPES, ALL SLOPES SHOULD BE DOZER TRACKED PRIOR TO SEEDING. ALL SLOPES SHOULD HAVE EROSION CONTROL BLANKETS OR RIP RAP EMBEDDED ON SLOPES SURFACES TO REDUCE EROSION.
 - ALL FLOWLINES MUST BE INSTALLED BELOW SUB-GRADE OF COMPOUND. (AT MINIMUM OF 6" BELOW)

DRAINAGE DITCHLINE DETAIL (SWALE)

SCALE: N.T.S.

3
C-7

EROSION & SEDIMENT CONTROL NOTES

- ALL WORK SPECIFIED AS AAN DOT ITEM SHALL BE GOVERNED BY THE STATE OF INDIANA OF DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATION HANDBOOK. IT IS CONTRACTORS RESPONSIBILITY TO POSSESS AND BE FAMILIAR WITH APPLICABLE SECTIONS.
- THIS CONTRACT DRAWING SHALL BE MADE AVAILABLE ON SITE AT ALL TIMES AND PRESENTED UPON REQUEST. IF UNFOUNDED STORM WATER POLLUTION PREVENTION IS ENCOUNTERED, ADDITIONAL STORM WATER POLLUTION PREVENTION (SWPP) MEASURES MAY BE REQUESTED BY THE OWNER, COUNTY ENGINEER, PROJECT ENGINEER OR SOIL CONSERVATION SERVICE REPRESENTATIVE AT ANYTIME. SUCH REQUESTS SHALL BE IMPLEMENTED IMMEDIATELY AT CONTRACTOR'S EXPENSE.
- ALL STORM WATER POLLUTION PREVENTION ITEMS SHALL BE INSTALLED AS SHOWN OR NOTED ON THIS SHEET.
- PLANT TEMPORARY SEEDING AND MULCHING IN ALL AREAS THAT SHALL BE INACTIVE FOR 7 DAYS OR MORE. ALL DISTURBED AND ERODED EARTH SHALL BE REGRADED AND SEEDED WITHIN 14 DAYS WITH SEEDING, AS DEFINED ABOVE AND AS SHOWN ON THE TABLE BELOW. TO ESTABLISH STABILITY AND PROVIDE SEDIMENT CONTROL, WHERE POSSIBLE, TEMPORARY SEEDING GROWTH SHALL NOT BE MOWED UNTIL IT HAS GONE TO SEED FOR 1 YEAR.

PERMANENT SEEDINGS	A	B	C	D	E	F
DORMANT SEEDINGS						
TEMPORARY SEEDINGS						
SODDING						
MULCHING						

- JAN. FEB. MAR. APR. MAY JUN. JUL. AUG. SEP. OCT. NOV. DEC.
- KENTUCKY BLUEGRASS 90 LBS./AC/MIXED PERENNIAL RYEGRASS 30 LBS./ACRE
 - KENTUCKY BLUEGRASS 150 LBS./AC/MIXED PERENNIAL RYEGRASS 45 LBS./AC. 2 TON STRAW MULCH PER ACRE
 - SPRING OATS 100 LBS./ACRE
 - WHEAT OR CEREAL RYE 150 LBS./ACRE
 - SOD (NURSERY GROWN KENTUCKY BLUEGRASS) 150 LBS./ACRE
 - STRAW MULCH 2 TONS PER ACRE
- * IRRIGATION NEEDED DURING JUNE, JULY & SEPTEMBER
** IRRIGATION NEEDED FOR 2-3 WEEKS AFTER SODDING

- PERMANENT VEGETATION SHALL BE INSTALLED WITHIN 10 DAYS AT THE COMPLETION OF ANY GRADED AREAS. WEATHER PERMITTING, ALL PERMANENT VEGETATION SHALL CONSIST OF PLANTING AND SOD
- AT SUCH TIME ROUGH GRADING OF THE SITE IS COMPLETE AND DRAINAGE DIVERTS TO INLETS, INLET SEDIMENT FILTERS SHALL BE INSTALLED AT ALL INLET STRUCTURES TO KEEP PIPING SYSTEMS FREE OF SILTATION.
- SILT BARRIERS SHALL BE INSTALLED AROUND ALL EXISTING OR NEW STORM INLETS, CATCH BASINS, AND YARD DRAINS. INSTALL ROCK CHECK DAMS FOR HEADWALL INLETS FOR STORM WATER POLLUTION PREVENTION.
- STORM WATER POLLUTION PREVENTION MEASURES SHALL BE INSTALLED OR TOPSOIL STOCKPILES AND OTHER TEMPORARILY DISTURBED AREAS AS SHOWN ON THESE PLANS AND AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL INSPECT ALL SWPP MEASURES DAILY AND REPAIR AS NECESSARY TO PREVENT EROSION. SILTATION SHALL BE REMOVED FROM AREAS WHERE FAILURES HAVE OCCURRED AND CORRECTIVE ACTION TAKEN WITHIN 24 HOURS TO MAINTAIN ALL SWPP.
- SILT BARRIERS, CONSTRUCTION ENTRANCES, AND SILT FENCES SHALL REMAIN IN PLACE UNTIL A CONTRACTOR SHALL BE SURE SILT FROM ENTERING ANY STORM DRAINAGE SYSTEM. THE SITE HAS BEEN COMPLETELY STABILIZED, ANY SILT IN PIPES AND DRAINAGE SWALES SHALL BE REMOVED WITHIN 10 DAYS.
- TEMPORARY SEDIMENTATION AND STORM WATER POLLUTION PREVENTION MEASURES MUST BE INSPECTED AND LOGGED BY THE CONTRACTOR FOR INSPECTION. LOGGING SHALL BE WEEKLY AND AFTER RAIN STORMS.
- UTILITY COMPANIES MUST COMPLY WITH ALL STORM WATER POLLUTION PREVENTION MEASURES AS DEFINED ON THE STORM WATER PREVENTION PLANS, DETAILS AND NOTES.
- THE TOTAL AREA OF DISTURBANCE FOR THIS PROJECT IS APPROXIMATELY 0.96 ACRES.
- ALL EXISTING WATER COURSES WITHIN THE PROJECT LIMITS SHALL BE TEMPORARILY PROTECTED DURING LAND CLEARING AND GRADING OPERATIONS. SOILS WITHIN 50 FEET OF SAID WATER COURSES SHALL BE STABILIZED WITHIN 2 DAYS OF THE INITIAL CLEARING / GRADING OPERATION AS SHOWN ON PLANS.
- ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 7 DAYS OF FINAL GRADING.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL SEDIMENTATION AND STORM WATER POLLUTION PREVENTION ITEMS AT ALL TIMES.
- ALL STORM WATER POLLUTION PREVENTION PRACTICES WILL BE INSTALLED BEFORE ANY OTHER EARTH MOVING OCCURS.
- THE FOLLOWING STORM WATER POLLUTION PREVENTION AND SEDIMENT CONTROL MEASURES WILL BE USED ON THIS SITE:
 - SILT BARRIERS
 - SILT FENCE
 - CONSTRUCTION ENTRANCE
 - EROSION CONTROL SEED BLANKETS - SPEC FOR TEMPORARY EROSION CONTROL BLANKETS ON SLOPES/DITCHES

CONSTRUCTION SEQUENCE

- STAKE AND/OR FLAG LIMITS OF CLEARING
- CONSTRUCT DITCHES TO CLEAR ALL EROSION & SEDIMENT CONTROL FACILITIES & PROTECT THEM FROM BEING DISRUPTED
- CLEARING & GRUBBING AS NECESSARY, FOR INSTALLATION OF PERIMETER CONTROLS.
- INSTALL SILT FENCE PERIMETER CONTROLS AS SHOWN ON PLANS
- INSTALL CONSTRUCTION ENTRANCE IF CONDITIONS ARE SUCH THAT MUD IS COLLECTION ON VEHICLE TIRES. THE TIRES MUST BE CLEANED BEFORE THE VEHICLES ENTER THE PUBLIC ROADWAY. THE SITE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING OR FLOW OF MUD INTO THE PUBLIC RIGHT-OF-WAY. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO THE ROADWAY MUST BE REMOVED PROMPTLY.
- CLEARING & GRUBBING THE REMAINING SITE AS NECESSARY.
- BEGIN FILLING & GRADING AS REQUIRED TO REACH SUBGRADE.
- CONSTRUCT AND MAINTAIN TEMPORARY DRAINAGE SWALES DURING FILLING AND GRADING ACTIVITIES.
- CONSTRUCT SITE WORK INCLUDING STORM DRAINAGE FACILITIES.
- MAINTAIN EROSION & SEDIMENTATION CONTROL MEASURES UNTIL THE SITE HAS BEEN COMPLETELY STABILIZED.
- REMOVE SEDIMENT CONTROLS.

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250 SIGNAL MOUNTAIN ROAD, SUITE B
CHATTANOOGA, TN 37405

520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101



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09/20/23	FINAL CDS
10/17/23	DATED ADJOINERS MAP

SCHEKS
29760
LICENSED PROFESSIONAL ENGINEER
KIRKSEY
10/17/2023

KIRKSEY
FIRE STATION DR
KIRKSEY, KY 42054
BEST MANAGEMENT PRACTICES & EROSION CONTROL DETAILS & NOTES

ISSUED FOR:	REVIEW	PERMIT	CONSTRUCTION	RECORD
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PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO.
2019737.57

C-7

DATE	DESCRIPTION
03/09/23	REVISED FOR 90% REVIEW
08/15/23	UPDATED PER NEW MJK TEMPLATE
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10/17/23	DATED ADJOINERS MAP

SCHEKS
 29760
 LICENSED PROFESSIONAL ENGINEER
 STATE OF OHIO
 Christopher J. Scheks
 10/17/2023

KIRKSEY
 FIRE STATION DR
 KIRKSEY, KY 42054

FENCE DETAILS AND NOTES

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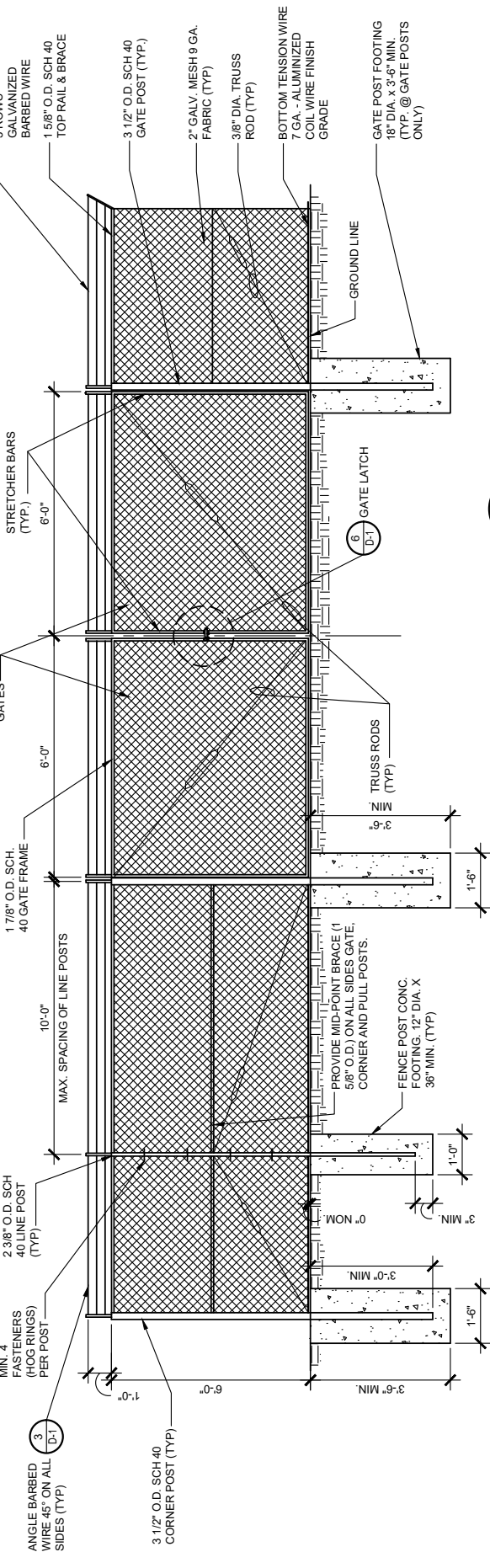
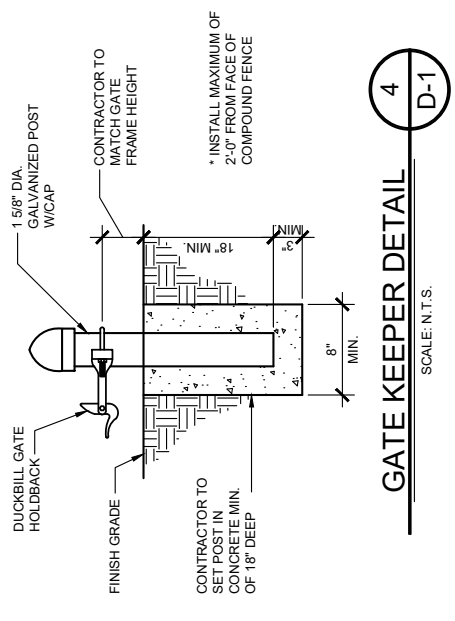
PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO.
2019737.57

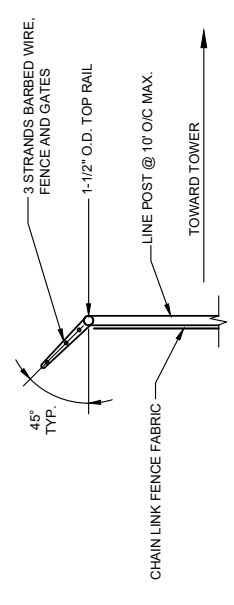
D-1

CHAIN LINK FENCING NOTES

- ALL FENCE AND FABRIC SHALL BE HOT-DIPPED GALVANIZED WITH A MINIMUM OF 2 OZ. PER SQUARE FOOT, 9 GAUGE WIRE (MIN. BREAKING STRENGTH OF 1,290 LBS) WITH 2" MESH. ALL BARBED WIRE SHALL BE ALUMINUM OR COATED PER NOTE #4.
- BOTTOM EDGE OF FENCE FABRIC SHALL EXTEND TO FINISHED GRADE.
- SITE FENCE SHALL BE 6'-0" FABRIC W/3 STRAND BARBED WIRE FOR TOTAL HEIGHT OF 7'-0". BARBED WIRE SHALL MEET ASTM A 121, CLASS 3 GALV. OR ASTM A 585, TYPE I, CLASS 2 COATING (NOT LESS THAN 0.8 OZ. PER SQ. FT.) AND SHALL BE THREE STRAND 12.5 GAUGE W/4 POINT BARS AT 5" O.C.
- BOTTOM OF CONCRETE BASE SHALL BE SET BELOW FROSTLINE (SEE LOCAL CODE), WHERE SOIL BEARING CAPACITY IS LESS THAN 2000 PSF. INCREASE CONCRETE SURROUNDING FENCE POST FOUNDATION DIAMETERS BY 8". PROVIDE CONCRETE WITH A 28 DAY STRENGTH OF 3000 PSI (MIN).
- PROVIDE A DIAGONAL BRACE ROD AND TURN BUCKLE ON BOTH GATE LEAFS.
- ALL RAILS AND BRACES SHALL BE SCHEDULE 40 STEEL PIPE, AND ALL FENCE POSTS SHALL BE SCHEDULE 40 STEEL PIPE, AND BE 2 OZ. GALVANIZED COATED.
- CONTRACTOR SHALL ENSURE ALL POSTS ARE PLUMB.
- ALL FENCE SHALL BE FABRICATED AND INSTALLED PER ASTM F2611-15, ASTM F567-14b AND CHAIN LINK FENCE MANUFACTURES INSTITUTE CLFMI-PM 2445.
- CONTRACTOR SHALL FURNISH AND INSTALL ONE (1) MASTER LOCK LONG SHANK #175LH COMBINATION PADLOCK. COMBINATION TO BE SET AT 7011.

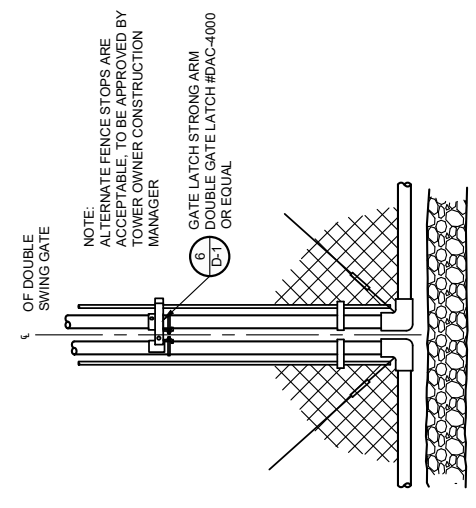
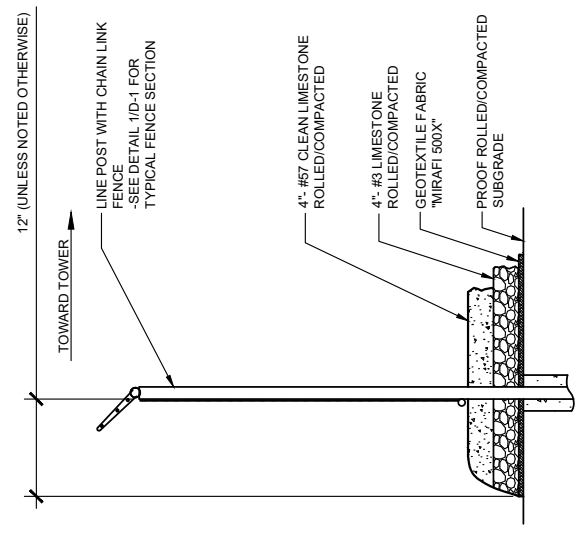


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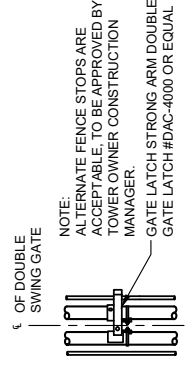


3
 D-1

2
 D-1



5
 D-1



6
 D-1

NOTE:
 ALTERNATE FENCE STOPS ARE ACCEPTABLE, TO BE APPROVED BY TOWER OWNER CONSTRUCTION MANAGER.
 GATE LATCH STRONG ARM DOUBLE GATE LATCH #DAC-4000 OR EQUAL



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 Akron, OH 44311
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1	10/17/23	DATED ADJOINERS MAP

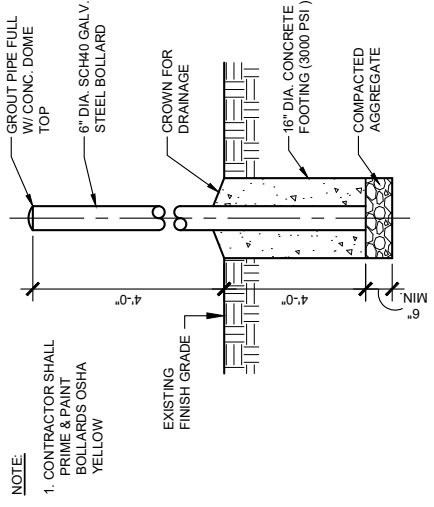
CHRISTOPHER TUCKER
 LICENSED PROFESSIONAL ENGINEER
 29760
 KY 10/17/2023

KIRKSEY
 FIRE STATION DR
 KIRKSEY, KY 42054
 SITE DETAILS

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1	C-7			

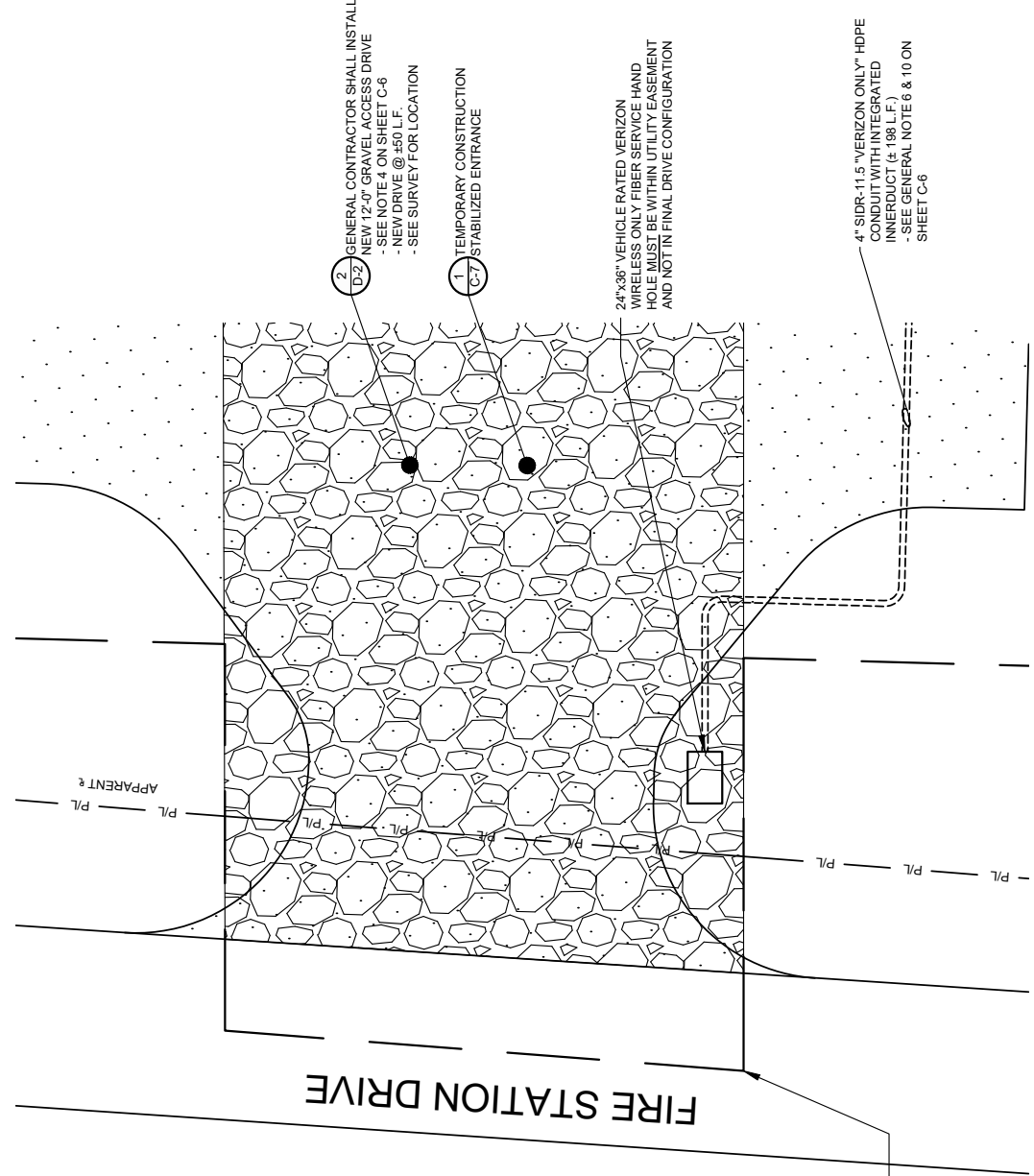
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TTP	SEK

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2019737.57
D-2

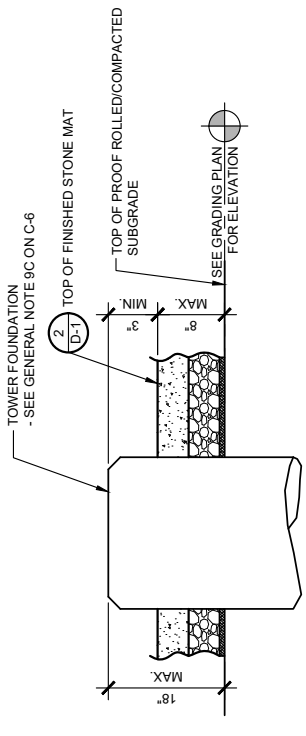


4
D-2
BOLLARD DETAIL
 SCALE: N.T.S.

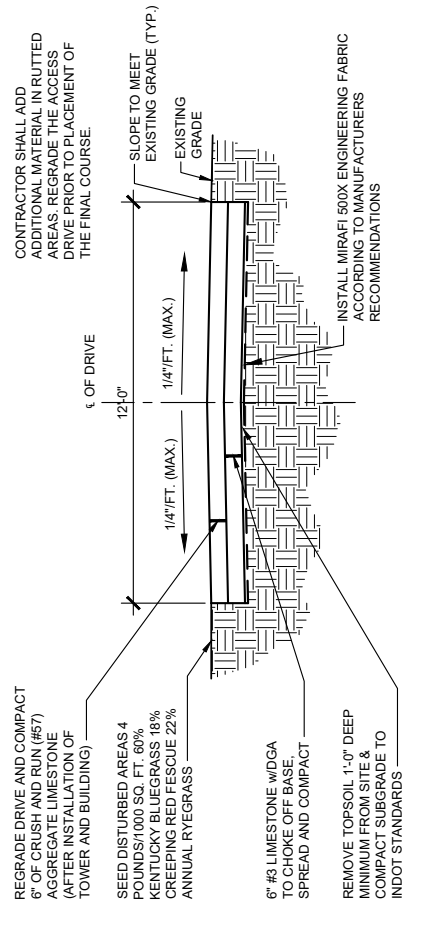
NOTE:
 1. CONTRACTOR SHALL PRIME & PAINT BOLLARDS OSHA YELLOW



5
D-2
ENLARGED FIBER HAND HOLE PLAN AT R.O.W.
 SCALE: 3/32" = 1'-0"



1
D-2
PARTIAL COMPOUND SECTION
 SCALE: N.T.S.



2
D-2
ACCESS DRIVE TYPICAL SECTION
 SCALE: N.T.S.

30'-0" WIDE ACCESS AND UTILITY EASEMENT W/DIVE APPROACH FLARE
 -SEE C-1 FOR CONTINUATION
 -SEE SURVEY FOR LOCATION

3
D-2
NOT USED
 SCALE: N.T.S.

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REFERENCE ONLY

KIRKSEY
 FIRE STATION DR
 KIRKSEY, KY 42054
CANOPY ELEVATIONS
 (REFERENCE ONLY)

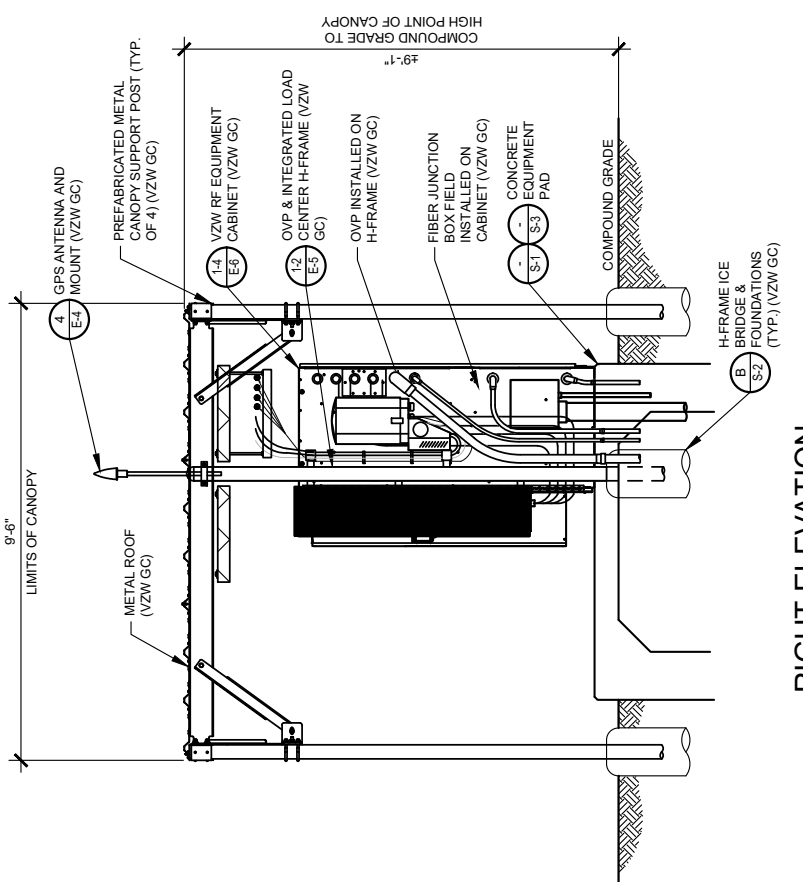
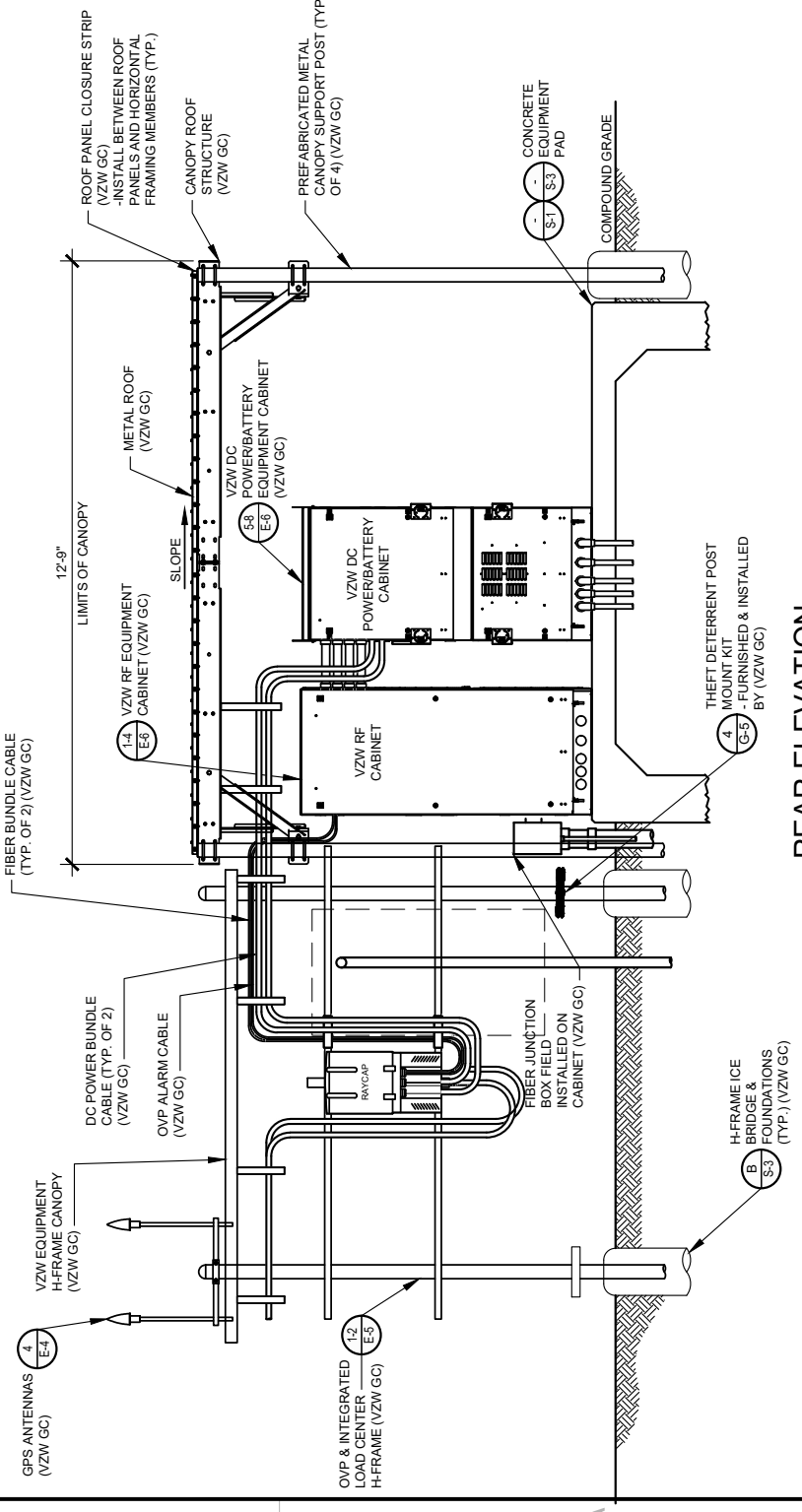
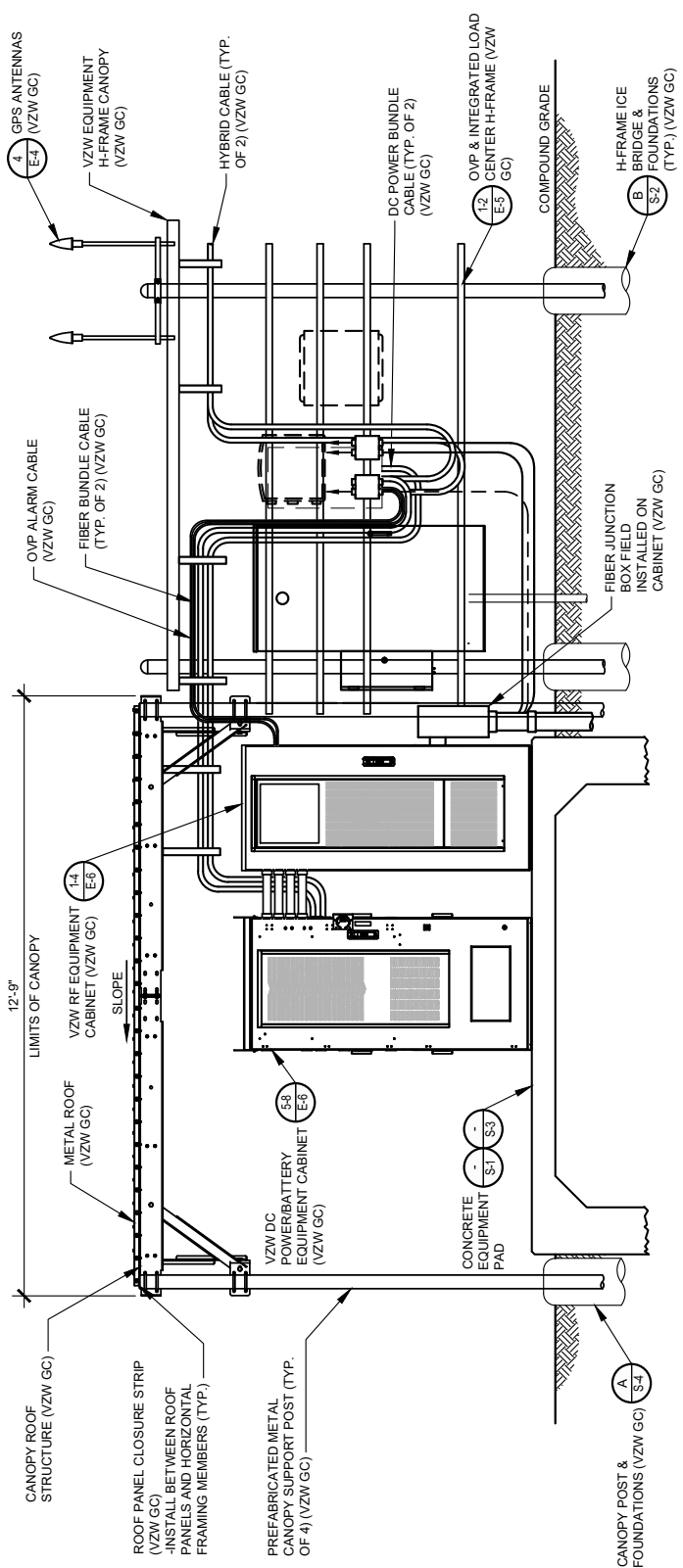
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PROJECT MANAGER	DESIGNER
TPP	SEK

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2019737.57

D-3

NOTE:
 CANOPY ROOF PANELS PROFILE RFRB
 PROVIDE 1/2" DENSITY POLYURETHANE FOAM
 PANEL CLOSURE STRIPS TO MATCH PROFILE.
 AS MANUFACTURED BY SEALTITE BUILDING
 FASTENERS *ST CLOSURE STRIPS OR EQUAL
 (VERIFY PROFILE WITH ROOF PANELS
 SUPPLIED WITH CANOPY)



STANDARD SITE SIGNAGE:

REQUIRED SIGNS:	LOCATIONS:
(C1) • N.O.C. "IN CASE OF EMERGENCY"	FRONT ACCESS DOOR OF CABINET (SEE FIGURE 1)
(C2) • NOTICE (CONTACT INFO)	FRONT ACCESS DOOR OF EACH CABINET WITH BATTERIES (SEE FIGURE 1)
(C3) • COMBINATION WARNING (SEE NOTE 2)	FRONT ACCESS DOOR OF EACH CABINET WITH BATTERIES (SEE FIGURE 1)
(C4) • COMBINATION WARNING (SEE NOTE 2)	INSIDE FRONT ACCESS DOOR OF EACH CABINET WITH BATTERIES
(C5) • S.D.S.	

-N.O.C. STANDS FOR "NETWORK OPERATIONS CENTER"
 -S.D.S. STANDS FOR "SAFETY DATA SHEET"

NOTES:

- CONTRACTOR SHALL INSTALL ALL SIGNS ON THE FRONT OF EACH CABINET. ALL SIGNS CAN BE PLACED ON ONLY THE UPPER DOOR, IF SPACE IS AVAILABLE.
- CONTRACTOR SHALL INSTALL SIGN C3 OR C4 BASED ON THE TYPE OF BATTERY THAT IS BEING INSTALLED.

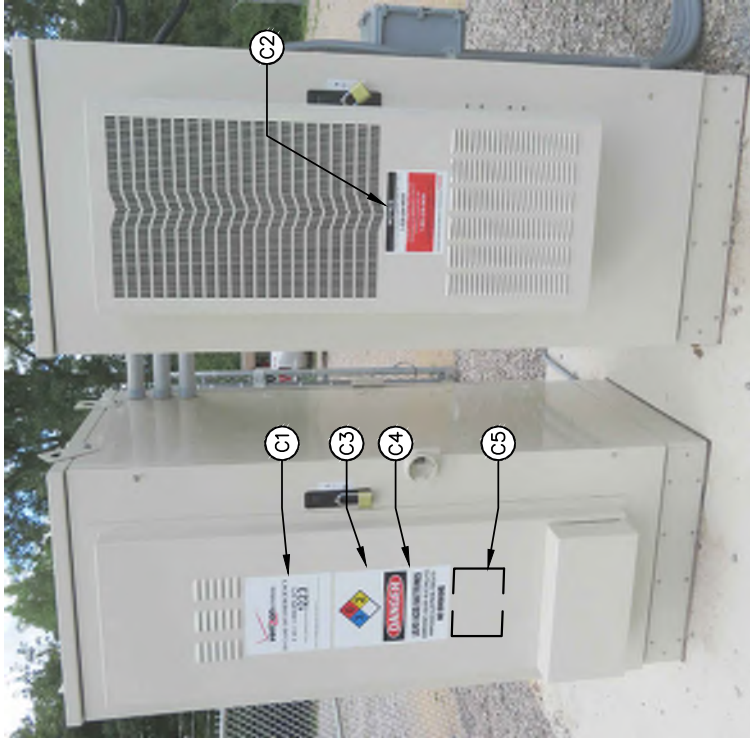


FIGURE 1 - EQUIPMENT CABINET SIGNAGE

E.M.E. SIGNAGE NOTES:

- CONTRACTOR SHALL AT A MINIMUM INSTALL "NOTICE" ELECTROMAGNETIC ENVIRONMENT (E.M.E.) SIGNAGE ON COMPOUND FENCE AT ALL SITES. (SEE FIGURE 5)
- CONTRACTOR SHALL VERIFY WITH THE VERIZON CONSTRUCTION MANAGER IF ANY ADDITIONAL E.M.E. SIGNAGE IS REQUIRED AT A SITE PRIOR TO SIGNAGE INSTALLATION. (SEE FIGURE 9)



FIGURE 9 - TYPICAL E.M.E. SIGNAGE



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REFERENCE ONLY

KIRKSEY
 FIRE STATION DR
 KIRKSEY, KY 42054
 VERIZON WIRELESS
 SIGNAGE
 (REFERENCE ONLY)

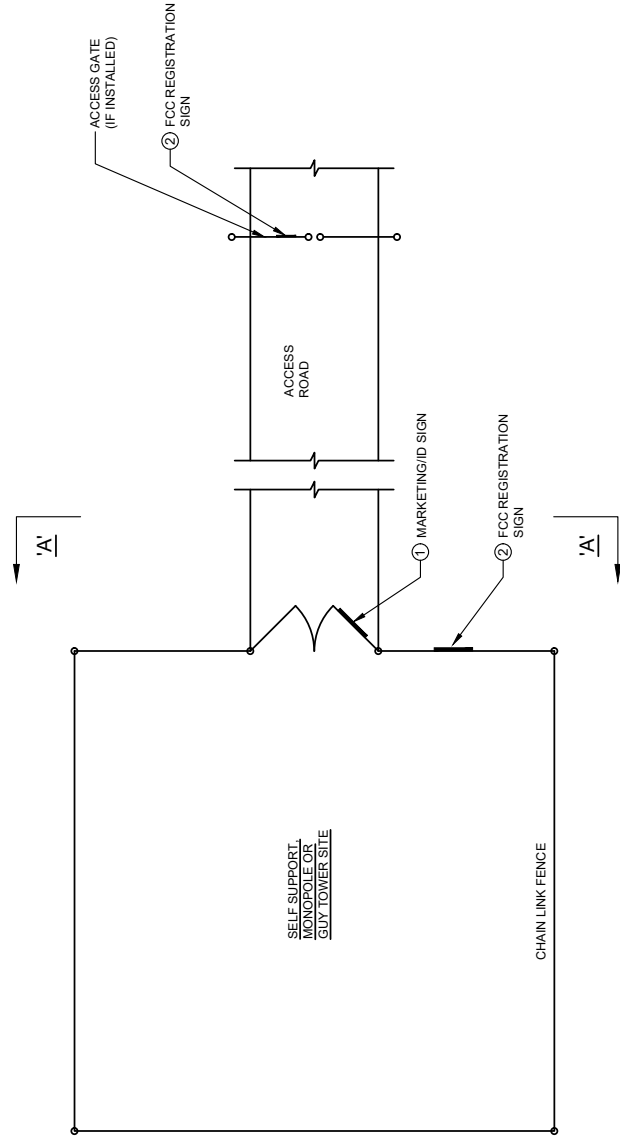
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REVIEW	SEK
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RECORD	
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TTP	

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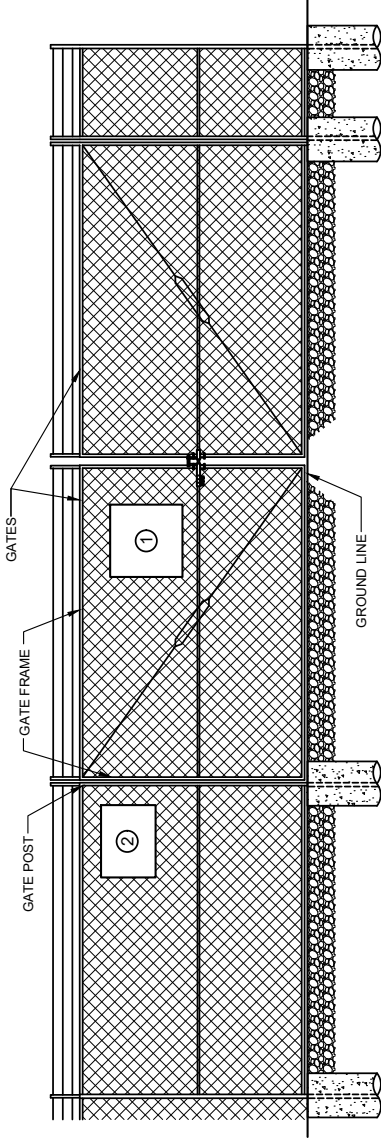
NOTES:

VERIZON WIRELESS SITE ID SIGN, RFE SIGNS, NOC INFORMATION SIGN AND ALL OTHER SIGNAGE NOT REFERENCED IN THIS DRAWING WILL BE FURNISHED AND INSTALLED BY VERIZON WIRELESS PERSONNEL PER VERIZON WIRELESS RFC SIGNAGE & DEMARCATON POLICY.



TYPICAL SITE FENCE SIGNAGE PLAN

SCALE: N. T. S.



ELEVATION "A-A"

SCALE: N. T. S.



MARKETING/ID SIGN

24" WIDE x 24" HIGH

1



FCC REGISTRATION SIGN

24" WIDE x 18" HIGH

2

REFERENCE ONLY

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FIRE STATION DR
KIRKSEY, KY 42054

SITE FENCE SIGNAGE
(REFERENCE ONLY)

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TTP	SEK

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STRUCTURAL NOTES

- 1. CANOPY SYSTEM DESIGN LOADINGS:**
 ROOF SNOW LOAD 70 PSF
 DEAD LOADS ACTUAL MATERIAL WEIGHTS
 BASIC WIND SPEED 120 MPH
- DESIGN CODES**
 INTERNATIONAL BUILDING CODE (IBC) 2015
 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES ASCE7-10
 OSHA REGULATIONS

- 2. STRUCTURAL STEEL:**
 PIPE - ASTM A53 TYPE E OR S GRADE B, OR ASTM A501.
 STRUCTURE FINISH - AFTER FABRICATION ACCORDING TO ASTM A123.
- 3. BUILDING FOUNDATION SYSTEM:**
 THE SUBSURFACE REPORT WAS PROVIDED BY GPD GROUP, INC., DATED DECEMBER 8, 2022.
 ALLOWABLE BEARING CAPACITY BLDG. FOOTINGS 275 PSF
- ALL CONTRACTORS SHALL EXERCISE GREAT CARE DURING EXCAVATION. ALL CONTRACTORS SHALL DETERMINE UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY IF DEVIATION FROM PLANS EXIST.
- THE SUBSURFACE REPORT IS NOT TO BE CONSIDERED AS A COMPLETE RECORD OF THE EXISTING CONDITIONS AT THE SITE. THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS, INCLUDING SUBSURFACE CONDITIONS. THE CONTRACTOR SHALL OBTAIN PERMISSION FROM THE OWNER PRIOR TO SITE ENTRY FOR THE PURPOSE OF CONDUCTING SOIL TESTING AND VERIFICATION OF EXISTING CONDITIONS.
- FOUNDATION SUBGRADES SHALL BE HAND TRIMMED AND COMPACTED. ALL BACKFILL TO BE COMPACTED TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-1557.

- 4. CONCRETE WORK:**
 CONCRETE CYLINDERS SHALL BE TAKEN AND TESTED BY A QUALIFIED CONCRETE TESTING COMPANY. THE GENERAL CONTRACTOR SHALL PROVIDE ONE (1) CYLINDER SAMPLE TAKEN PER POUR FOR THE GENERAL CONTRACTOR TO PROVIDE TO THE ENGINEER. THE CONTRACTOR MUST FURNISH THE GENERAL CONTRACTOR WITH THREE (3) COPIES OF TESTING RESULTS TO VERIFY WIRELESS AND TOWER OWNER CONSTRUCTION MANAGERS FAILURE TO PROVIDE WRITTEN DOCUMENTATION WILL RESULT IN A DEDUCTION FROM THE CONTRACT. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY ADDITIONAL COSTS IN TESTING DUE TO DELAYS BY THE GENERAL CONTRACTOR OR HIS SUBCONTRACTORS. USE AIR ENTRAINMENT IN EXTERIOR SLABS.

SPECIFICATIONS
 - LATEST EDITION OF ACI-318 AS ADOPTED BY THE STATE OF KENTUCKY
 - BLDG. FOUNDATION Fc = 4000 PSI @ 28 DAYS

MATERIALS
 2"-4" SLUMP
 - REINFORCING ASTM A615, GRADE 60
 - ANCHOR BOLTS ASTM F1554 A36

REINFORCING COVERS
 - FOOTINGS 2"
 TOP
 BOTTOM/SIDES 3"

REINFORCING EMBEDMENT AND LAP SPLICES (INCHES) FOR 4000 PSI CONCRETE

BAR SIZE	ANCHORAGE	SPLICE (OTHER)	ANCHORAGE (TOP)	SPLICE (TOP)
#4	12"	25"	25"	33"

CHAMFER TOP CORNERS OF ALL FOUNDATIONS (3/4")

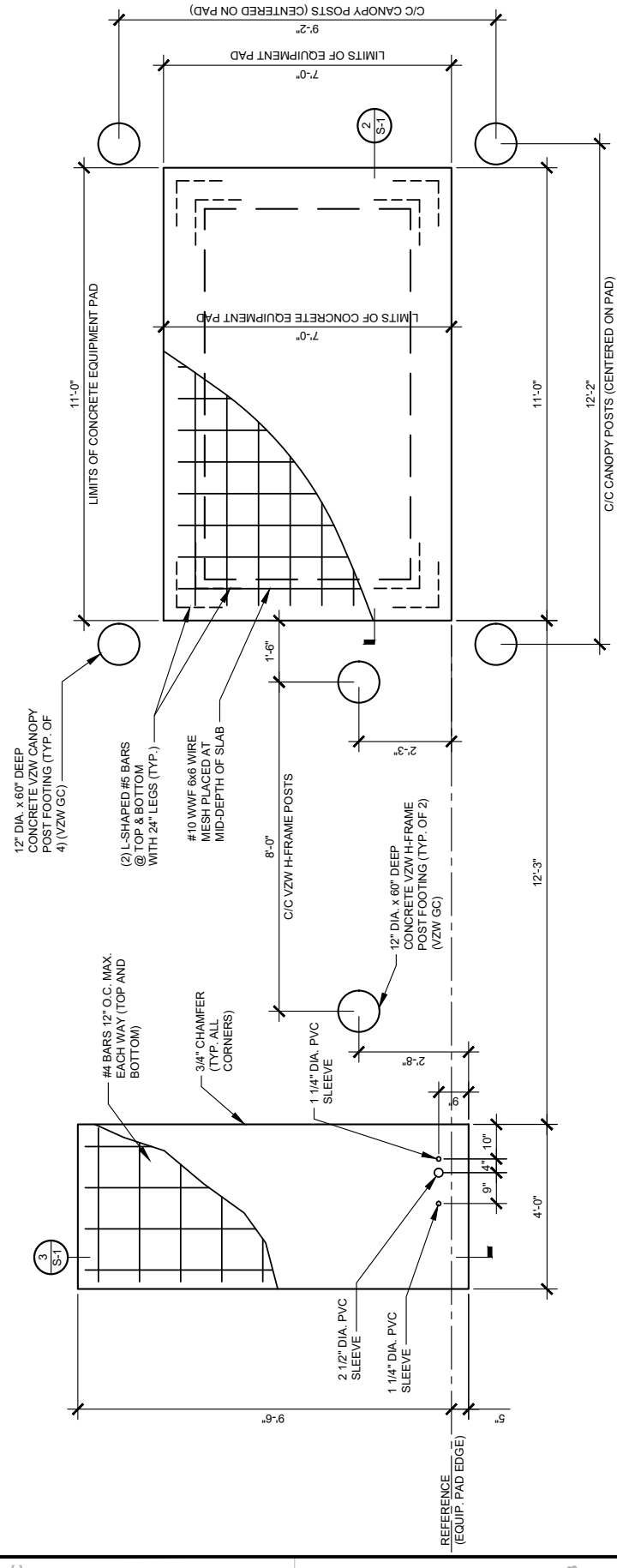
- 5. BURIED CABLE LOCATIONS INFORMATION**
 CONTACT KENTUCKY 811 48 HR. PRIOR TO DIGGING, GRADING, OR DRILLING 1-800-382-5544 OR 811

ADDITIONAL CONCRETE NOTES:

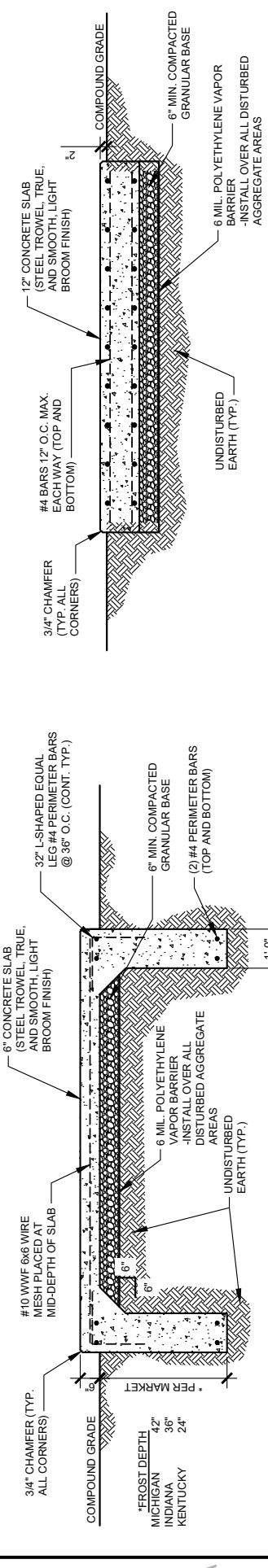
- ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 906, STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE AND ACI 305, 306 AND 307 UNLESS NOTED OTHERWISE.
- ALL DETAILING, FABRICATION AND PLACING OF CONCRETE SHALL CONFORM TO ACI 318-11.
- ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN 6% (±1%) AIR ENTRAINMENT.
- PROVIDE CORNER BARS AT ALL LOCATIONS WHERE REINFORCEMENT CHANGES DIRECTION.



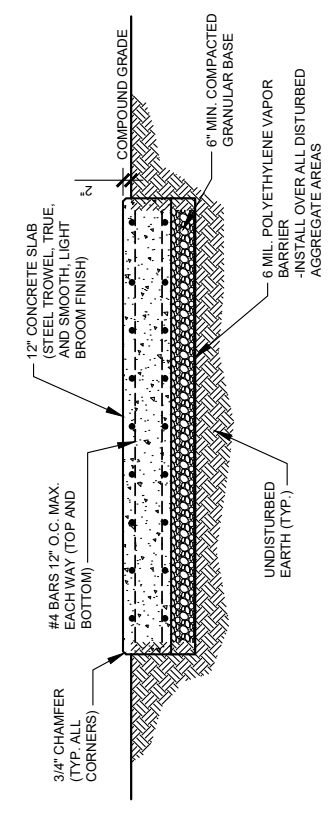
1-800-752-6007
 PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE KENTUCKY 811 SERVICE AT LEAST 48 HOURS BEFORE COMMENCING WORK.



EQUIPMENT AND GENERATOR PAD FOUNDATIONS PLAN
 SCALE: 1/4" = 1'-0"



EQUIPMENT PAD FOUNDATION SECTION
 SCALE: 1/4" = 1'-0"



GENERATOR PAD FOUNDATION SECTION
 SCALE: 1/4" = 1'-0"

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KIRKSEY
 FIRE STATION DR
 KIRKSEY, KY 42054

EQUIPMENT PAD FOUNDATION PLAN
 DETAILS AND NOTES

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TTP	SEK

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2019737.57

S-1

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1	10/17/23	DATED ADJOINERS MAP

SCHEKS
 CHRISTOPHER J. SCHEKS
 LICENSED PROFESSIONAL ENGINEER
 29760
 KY 10/17/2023

KIRKSEY
 FIRE STATION DR
 KIRKSEY, KY 42054

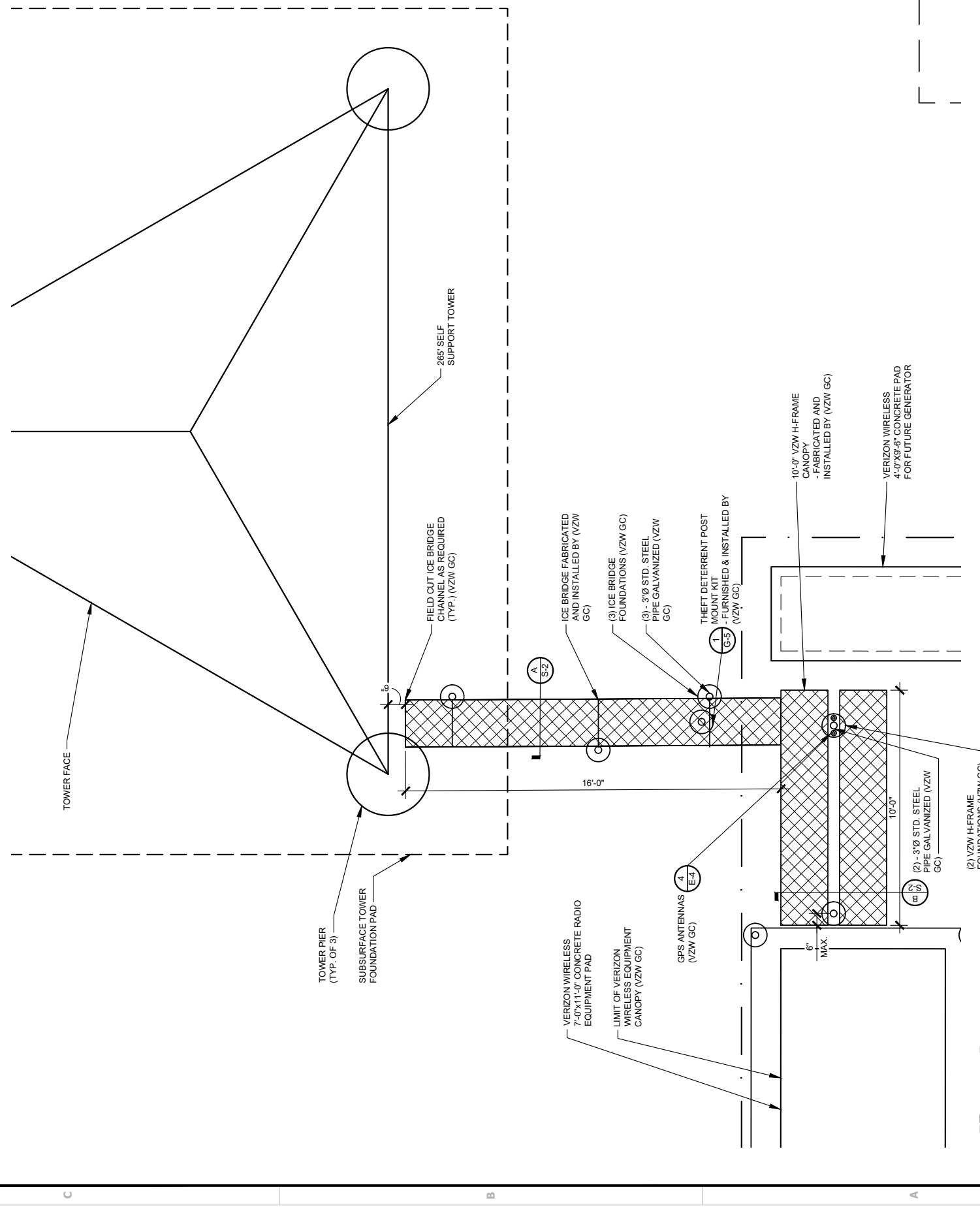
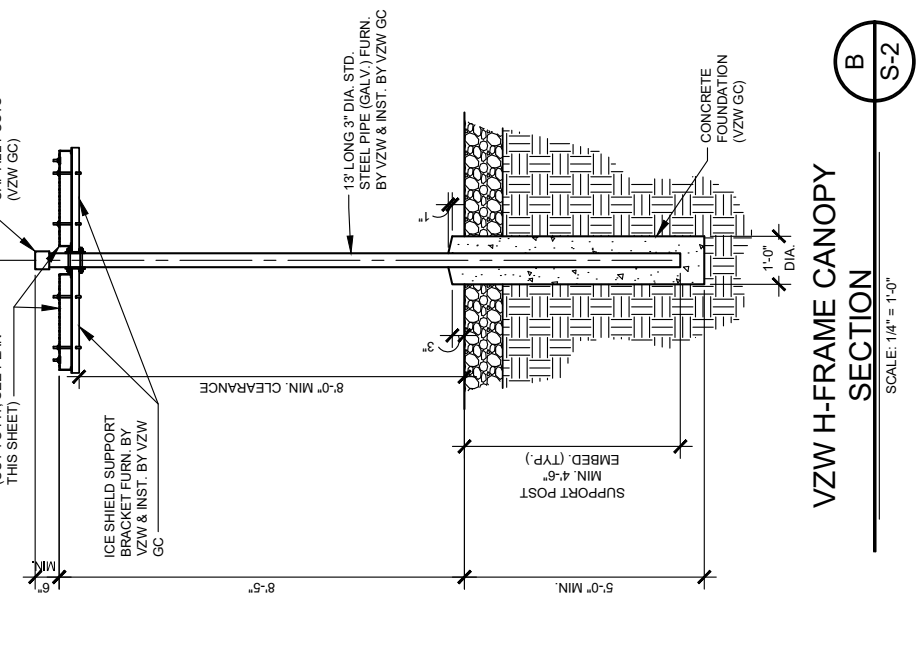
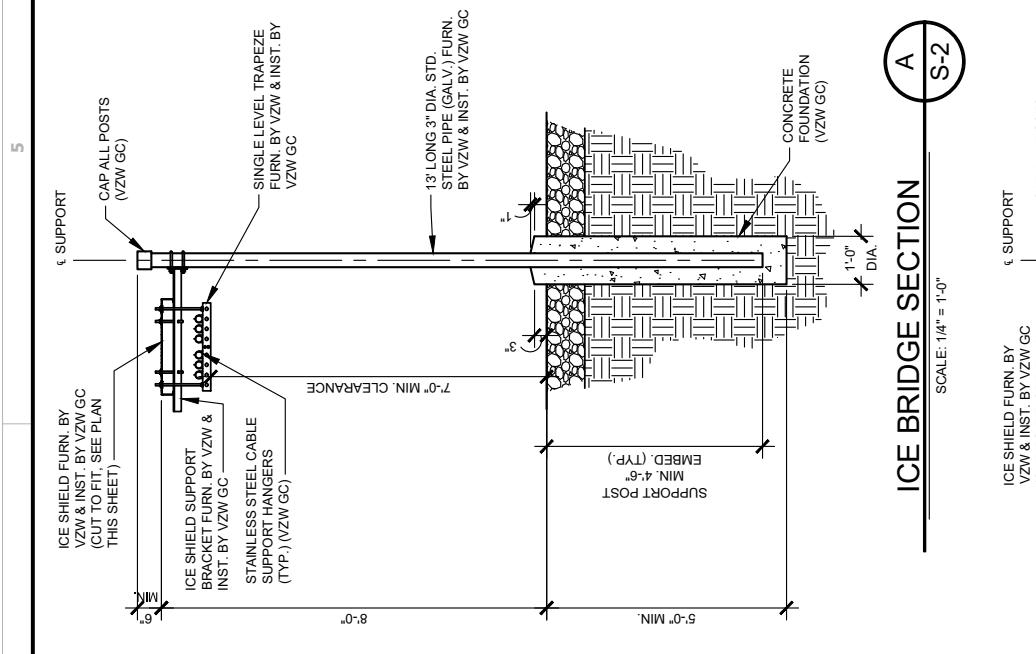
**ICE BRIDGE PLAN
 AND DETAILS**

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PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO.
2019737.57

S-2



1-800-752-6007
 PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO UNDERGROUND LOCATIONS SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

KIRKSEY
 FIRE STATION DR
 KIRKSEY, KY 42054
 FOUNDATION PLAN
 AND DETAILS

REVISION	ISSUED FOR:	DATE
REVIEW	---	---
PERMIT	---	---
CONSTRUCTION	---	---
RECORD	---	---

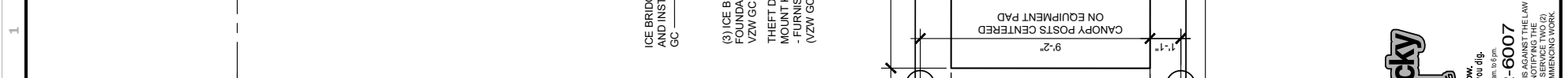
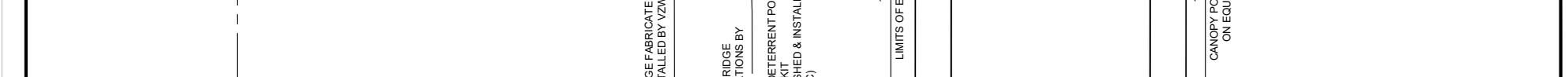
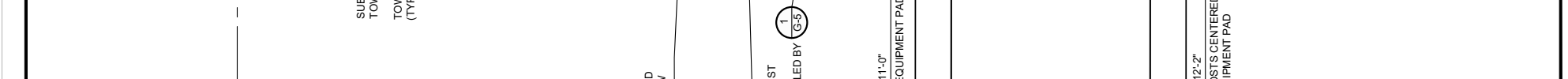
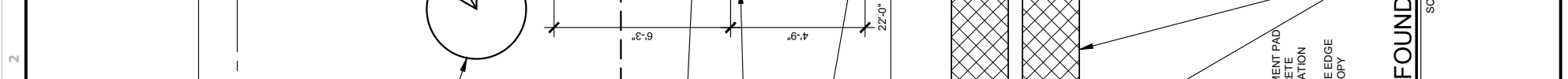
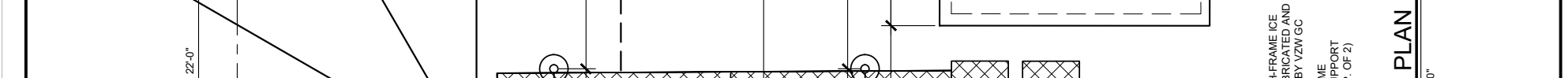
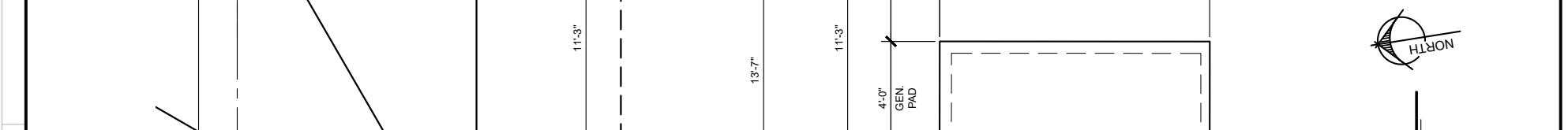
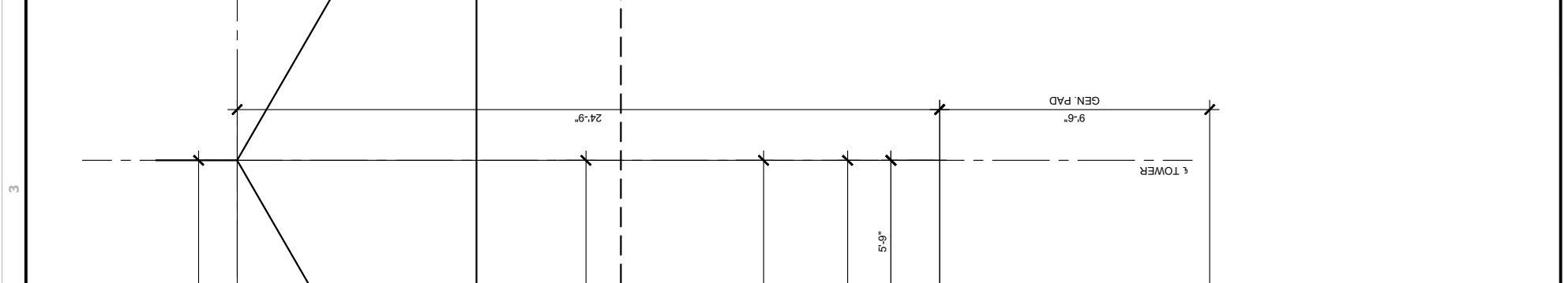
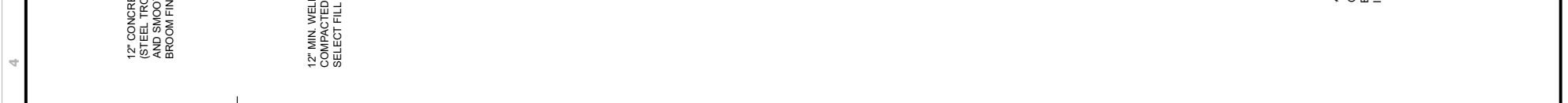
PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO. 2019737.57
S-3

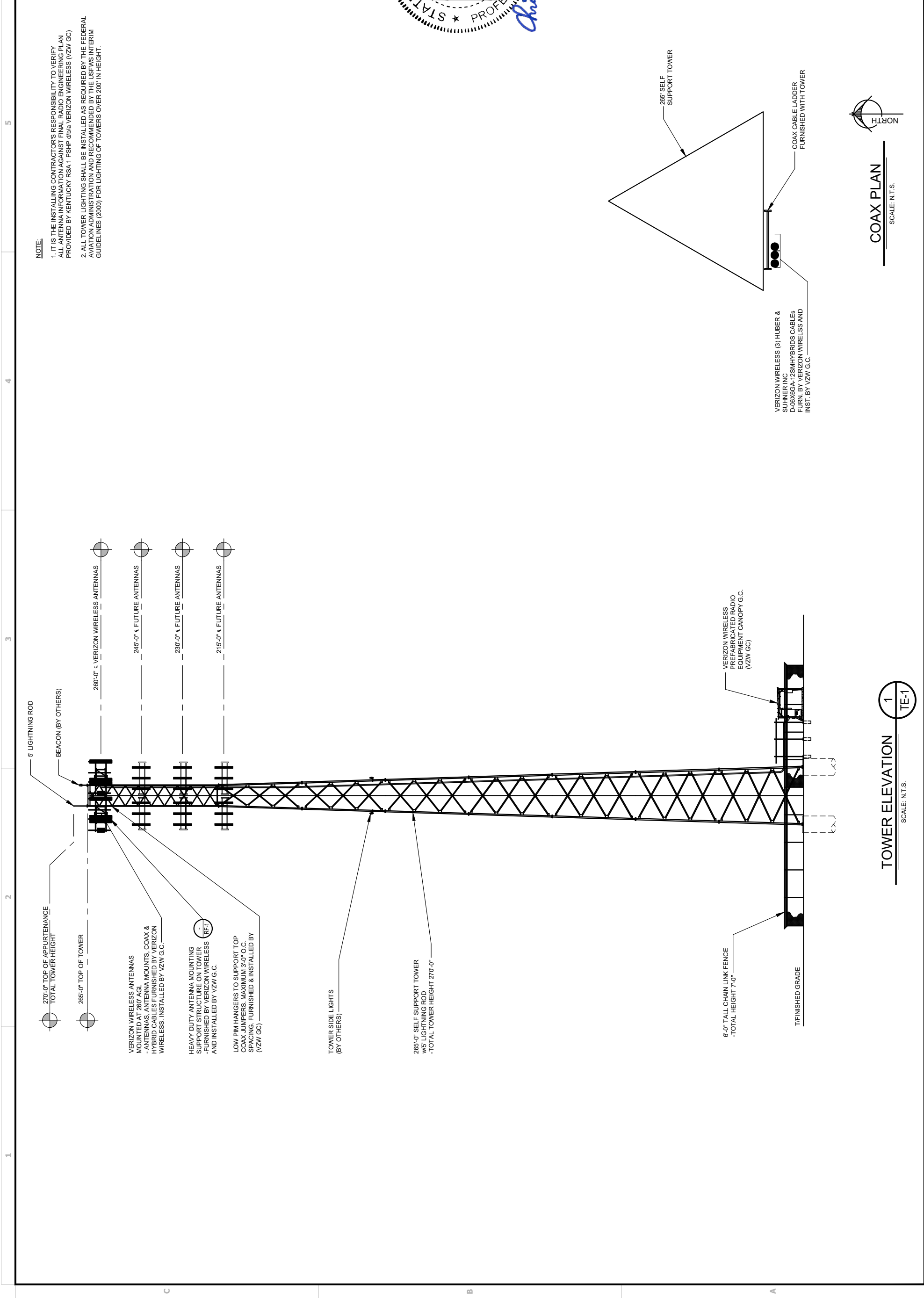
GPD GROUP, INC.
 520 South Main Street, Suite 2531
 Akron, OH 44311
 330.572.2100 Fax 330.572.2101
 250 SIGNAL MOUNTAIN ROAD, SUITE B
 CHATTANOOGA, TN 37405
Southern Towers

SCHEKES
 29760
 LICENSED PROFESSIONAL ENGINEER
 REGISTERED IN THE STATE OF KENTUCKY
 10/17/2023

NO.	DATE	DESCRIPTION
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4	10/17/23	UPDATED ADONERS MAP



Kentucky 811
 1-800-752-6007
 PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW
 TO OBTAIN ANY INFORMATION FROM ANY
 UNDERGROUND LOCATION SERVICE TWO (2)
 WORKING DAYS BEFORE COMMENCING WORK.



NOTE:

1. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL ANTENNA INFORMATION AGAINST FINAL RADIO ENGINEERING PLAN PROVIDED BY KENTUCKY RSA 1 PSHIP db/a VERIZON WIRELESS (VZW GC)
2. ALL TOWER LIGHTING SHALL BE INSTALLED AS REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION AND RECOMMENDED BY THE USFWS INTERIM GUIDELINES (2000) FOR LIGHTING OF TOWERS OVER 200' IN HEIGHT.

- VERIZON WIRELESS ANTENNAS MOUNTED AT 260' AGL - ANTENNAS, ANTENNA MOUNTS, COAX & HYBRID CABLES FURNISHED BY VERIZON WIRELESS. INSTALLED BY VZW G.C.
- HEAVY DUTY ANTENNA MOUNTING SUPPORT STRUCTURE ON TOWER - FURNISHED BY VERIZON WIRELESS AND INSTALLED BY VZW G.C.
- LOW PIM HANGERS TO SUPPORT TOP COAX JUMPERS. MAXIMUM 3'-0" O.C. SPACING. FURNISHED & INSTALLED BY (VZW GC)
- 265'-0" SELF-SUPPORT TOWER w/5' LIGHTNING ROD - TOTAL TOWER HEIGHT 270'-0"
- 270'-0" TOP OF APPURTENANCE TOTAL TOWER HEIGHT
- 265'-0" TOP OF TOWER
- 5' LIGHTNING ROD
- BEACON (BY OTHERS)
- 260'-0" ± VERIZON WIRELESS ANTENNAS
- 245'-0" ± FUTURE ANTENNAS
- 230'-0" ± FUTURE ANTENNAS
- 215'-0" ± FUTURE ANTENNAS

TOWER SIDE LIGHTS (BY OTHERS)

6'-0" TALL CHAIN LINK FENCE - TOTAL HEIGHT 7'-0"

VERIZON WIRELESS PREFABRICATED RADIO EQUIPMENT CANOPY G.C. (VZW GC)

VERIZON WIRELESS (3) HUBER & SUHNER INC D-00X6GA-125MHYBRIDS CABLES FURN. BY VERIZON WIRELESS AND INST. BY VZW G.C.

COAX CABLE LADDER FURNISHED WITH TOWER

265' SELF-SUPPORT TOWER



COAX PLAN
SCALE: N.T.S.

TOWER ELEVATION
SCALE: N.T.S.

1
TE-1

GPD GROUP, INC.
 520 South Main Street, Suite 2531
 Akron, OH 44311
 330.572.2100 Fax 330.572.2101

Southern Towers
 250 SIGNAL MOUNTAIN ROAD, SUITE B
 CHATTANOOGA, TN 37405

REV.	DATE	DESCRIPTION
A	03/09/23	ISSUED FOR 90% REVIEW
B	08/15/23	UPDATED PER NEW MIK TEMPLATE
0	09/20/23	FINAL CDS
1	10/17/23	UPDATED ADJOINERS MAP

SCHEKES
 29760
 LICENSED PROFESSIONAL ENGINEER
 Christopher J. Schekes
 10/17/2023

KIRKSEY
 FIRE STATION DR
 KIRKSEY, KY 42054
TOWER ELEVATION

ISSUED FOR:	
REVIEW	---
PERMIT	---
CONSTRUCTION	---
RECORD	---

PROJECT MANAGER	DESIGNER
TPP	SEK

JOB NO.
2019737.57

TE-1

NO.	DESCRIPTION	DATE
A	ISSUED FOR 90% REVIEW	10/17/2023
B	UPDATED PER NEW MIK TEMPLATE	08/15/23
C	FINAL CDS	09/27/23
1	UPDATED ADJOINERS MAP	10/17/2023

STATE OF OHIO
REGISTERED PROFESSIONAL ENGINEER
STEVEN P. SCHAUB
29008
10/17/2023

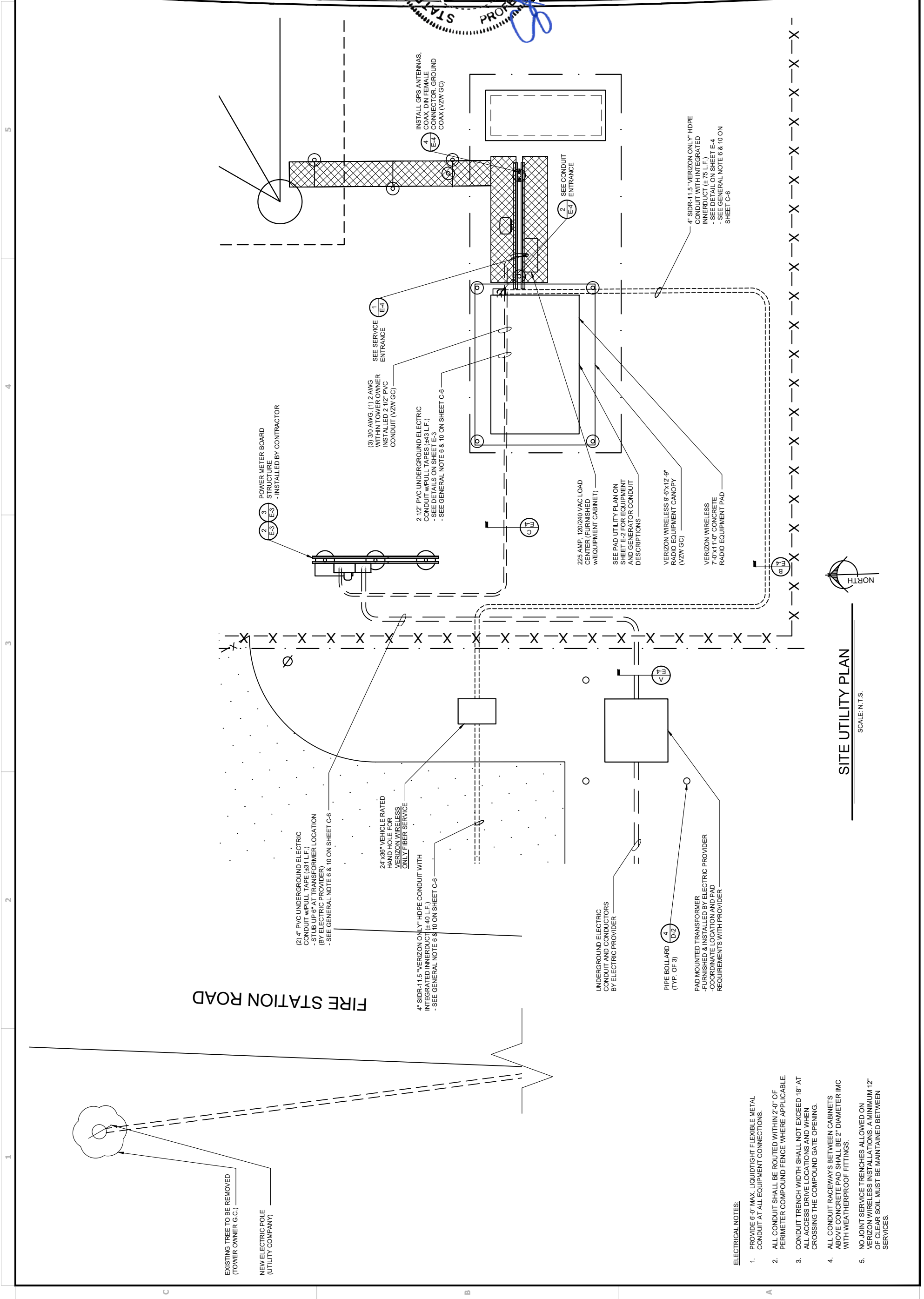
KIRKSEY
FIRE STATION DR
KIRKSEY, KY 42054
SITE UTILITY PLAN

ISSUED FOR:	
REVIEW	---
PERMIT	---
CONSTRUCTION	---
RECORD	---

PROJECT MANAGER	DESIGNER
TPP	SEK

JOB NO.
2019737.57

E-1



SITE UTILITY PLAN

SCALE: N.T.S.



520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

Southern Towers
250 SIGNAL MOUNTAIN ROAD, SUITE B
CHATTANOOGA, TN 37405

REV	DATE	DESCRIPTION
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1	10/17/23	UPDATED ADJOINERS MAP

STATE OF OHIO
REGISTERED PROFESSIONAL ENGINEER
STEVEN P. SCHAUB
29008
104709023

KIRKSEY
FIRE STATION DR
KIRKSEY, KY 42054
EQUIPMENT PAD UTILITY PLAN
TRENCH SECTIONS

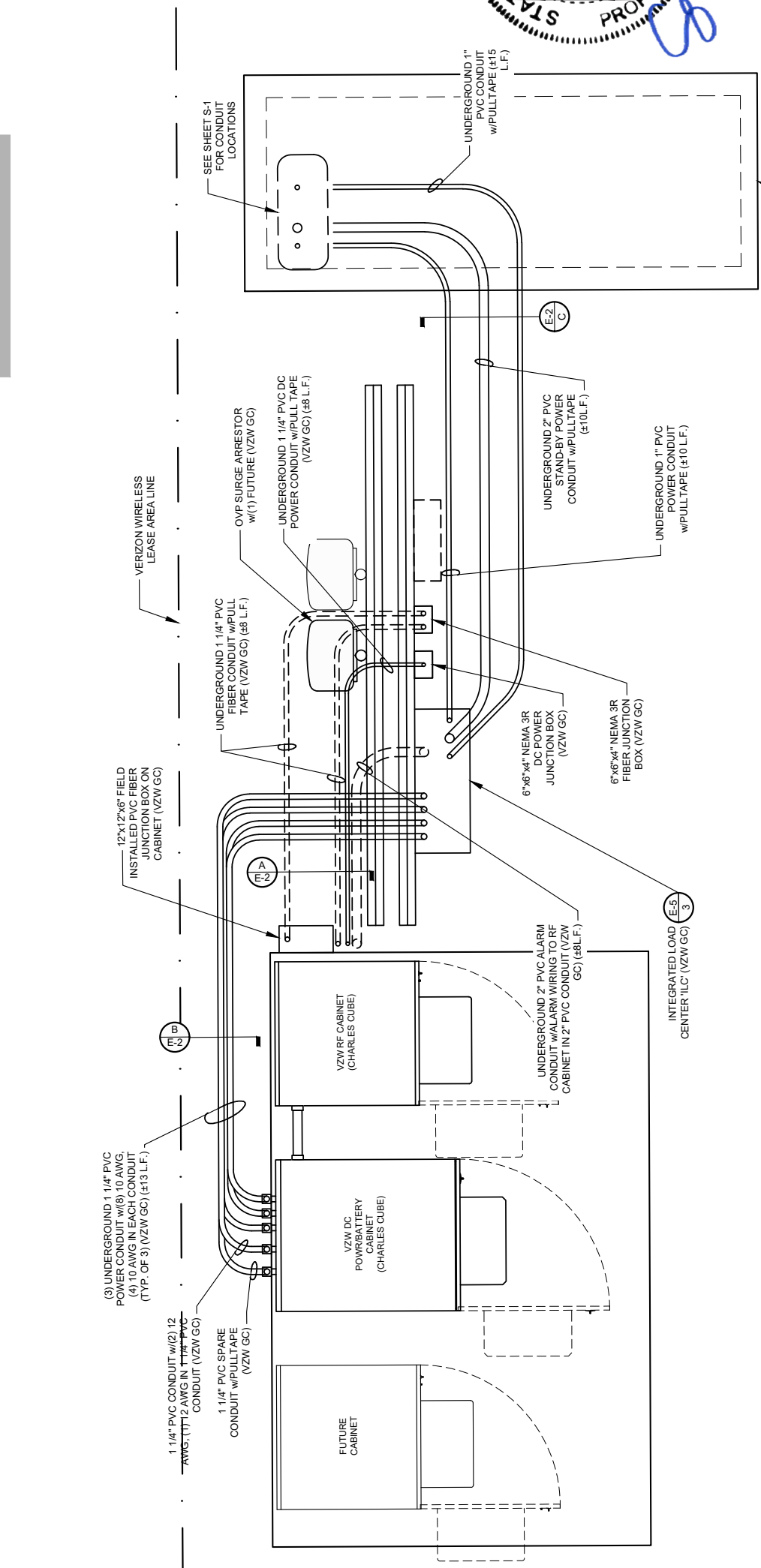
ISSUED FOR:	REVIEW	PERMIT	CONSTRUCTION	RECORD
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PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO
2019737.57

E-2

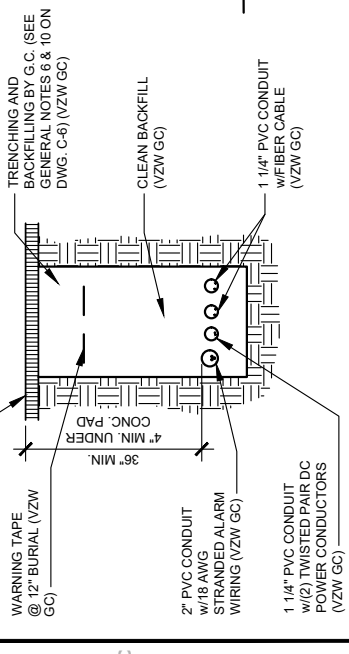
NOTE:
ALL GENERATOR CONDUITS SHALL BE INSTALLED AND CAPPED WEATHERTIGHT FOR FUTURE GENERATOR INSTALLATION IF REQUIRED



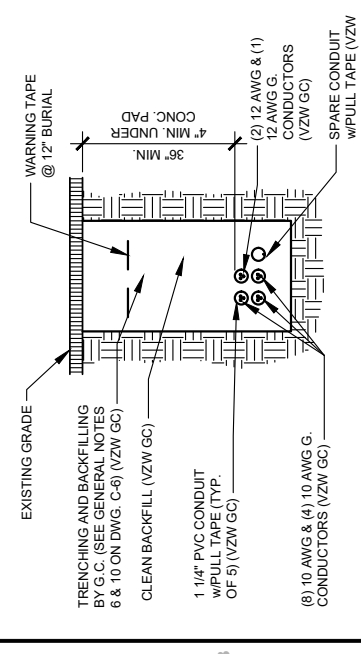
EQUIPMENT PAD UTILITY PLAN
SCALE: 3/8" = 1'-0"

ELECTRICAL NOTES:

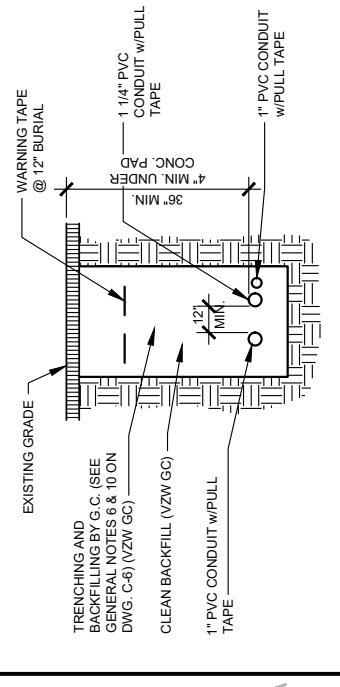
1. PROVIDE 6'-0" MAX. LIQUIDTIGHT FLEXIBLE METAL CONDUIT AT ALL EQUIPMENT AND GENERATOR CONNECTIONS.
2. ALL CONDUIT SHALL BE ROUTED WITHIN 2'-0" OF PERIMETER COMPOUND FENCE WHERE APPLICABLE.
3. CONDUIT TRENCH WIDTH SHALL NOT EXCEED 18" AT ALL ACCESS DRIVE LOCATIONS AND WHEN CROSSING THE COMPOUND GATE OPENING.
4. ALL CONDUIT RACEWAYS BETWEEN CABINETS ABOVE CONCRETE PAD SHALL BE 2" DIAMETER SCH40 PVC WITH WEATHERPROOF FITTINGS.
5. ALL GENERATOR CONDUITS SHALL BE INSTALLED REGARDLESS OF INITIAL GENERATOR INSTALLATION.



A
RF CABINET FEEDER TRENCH SECTION DETAIL
SCALE: N.T.S.



B
POWER PLANT FEEDER TRENCH SECTION DETAIL
SCALE: N.T.S.



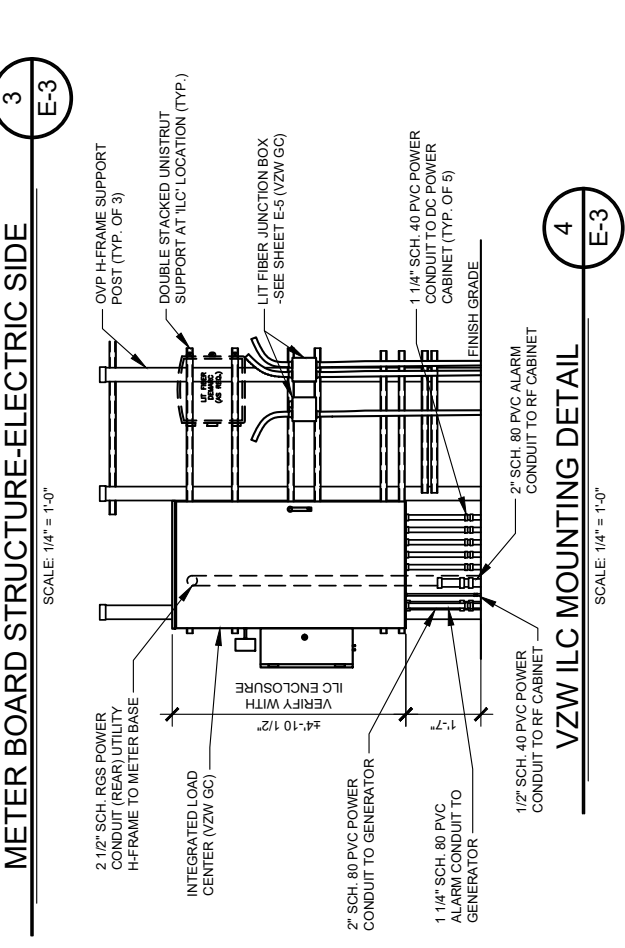
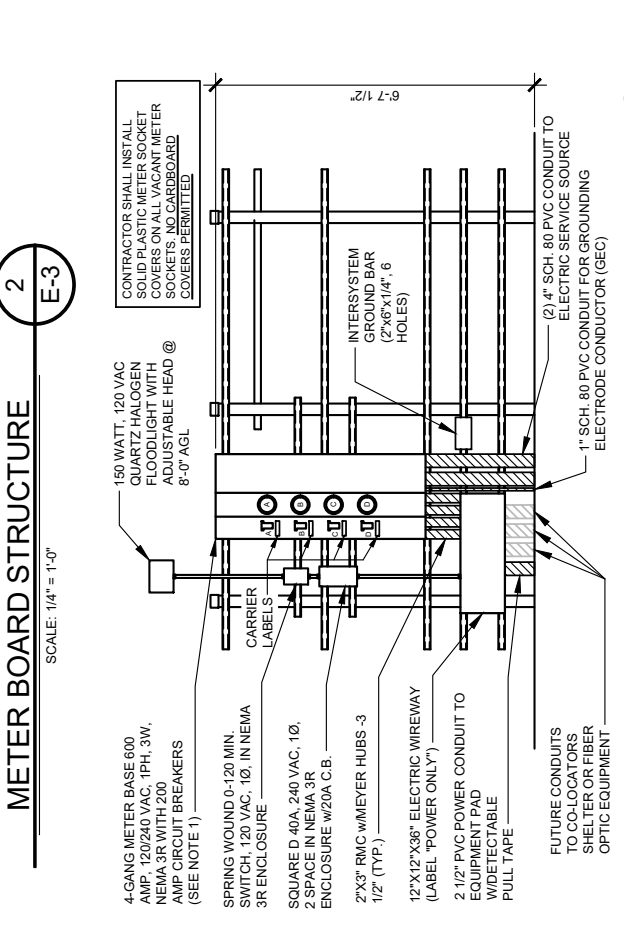
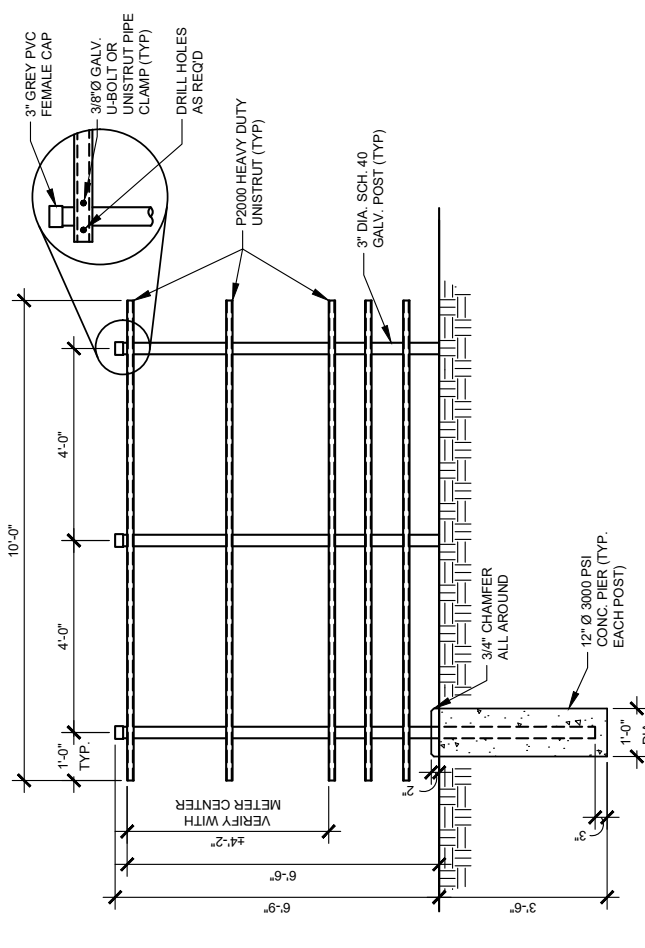
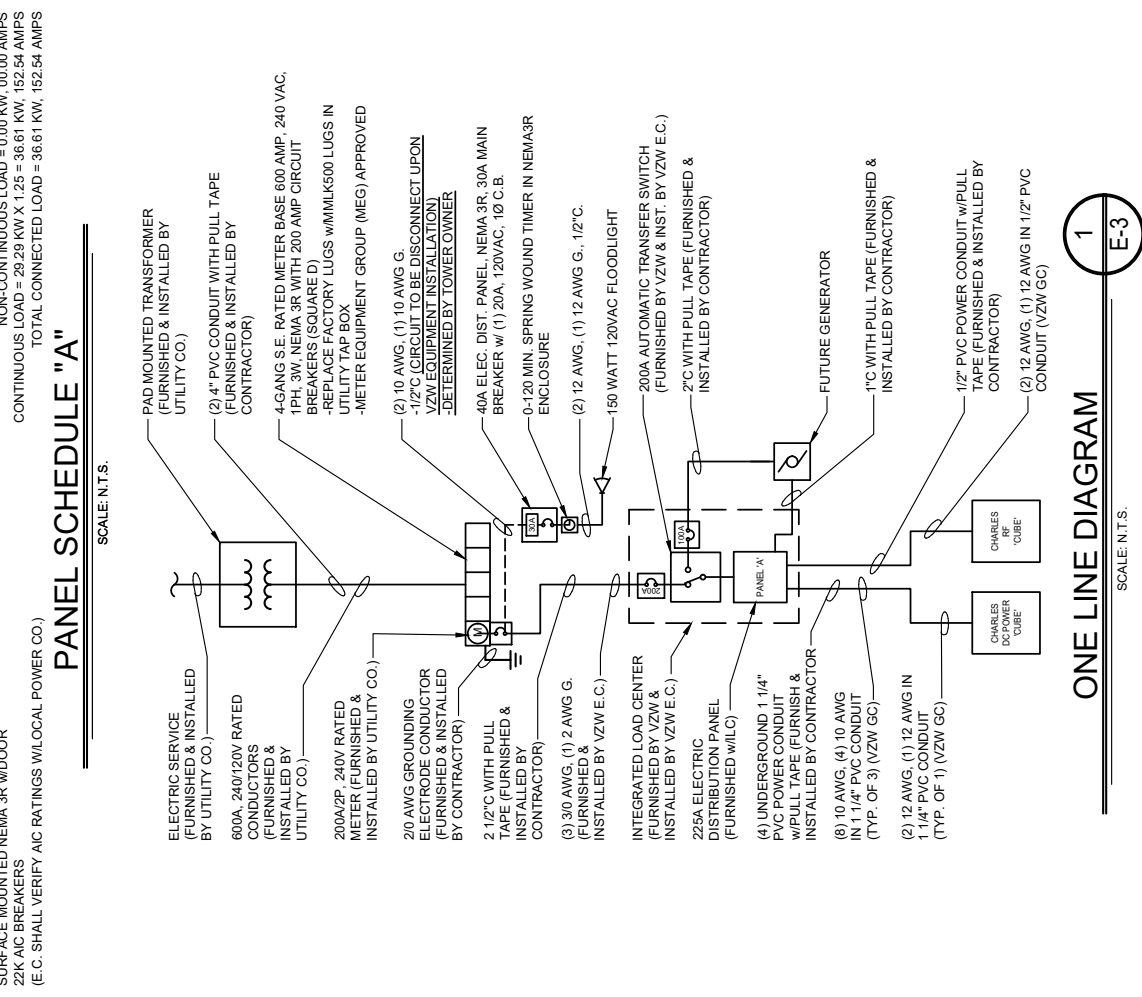
C
GENERATOR FEEDER TRENCH SECTION DETAIL
SCALE: N.T.S.

VERIZON PANEL "A" SCHEDULE

MAIN: 225/2 VOLTAGE: 120/240 PHASE: 1 WIRE: 3

DESCRIPTION	BRKR.	WATTS	BRKR.	WATTS	DESCRIPTION
RECTIFIER #1	30/2	1800	30/2	1800	RECTIFIER #2
RECTIFIER #3	30/2	1800	30/2	1800	RECTIFIER #4
RECTIFIER #5	30/2	1800	30/2	1800	RECTIFIER #6
RECTIFIER #7	30/2	1800	30/2	1800	RECTIFIER #8
SPACE					SPACE
SPACE					SPACE
SPACE					SPACE
SPACE					SPACE
SPACE					SPACE
SPACE					SPACE
SPACE					SPACE
SPACE					SPACE
SPACE					SPACE
GFI RECEPTACLE (RF CABINET)	15/1	180	15/1	180	GFI RECEPTACLE
SPACE					SPACE
CANOPY LIGHTS	15/1	126			SPACE

NON-CONTINUOUS LOAD = 0.00 KW, 00.00 AMPS
 CONTINUOUS LOAD = 29.29 KW X 1.25 = 36.61 KW, 152.54 AMPS
 TOTAL CONNECTED LOAD = 36.61 KW, 152.54 AMPS



REV.	DATE	DESCRIPTION
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C	09/25/23	FINAL CDS
D	10/07/2023	UPDATED ADVISERS MAP

STATE OF OHIO
REGISTERED PROFESSIONAL ENGINEER
STEVEN P. SCHAUB
29008
10/07/2023

KIRKSEY
FIRE STATION DR
KIRKSEY, KY 42054
PANEL SCHEDULE, ONE LINE
DIAGRAM, ELECTRICAL
NOTES AND DETAILS

ISSUED FOR:	REVIEW	PERMIT	CONSTRUCTION	RECORD
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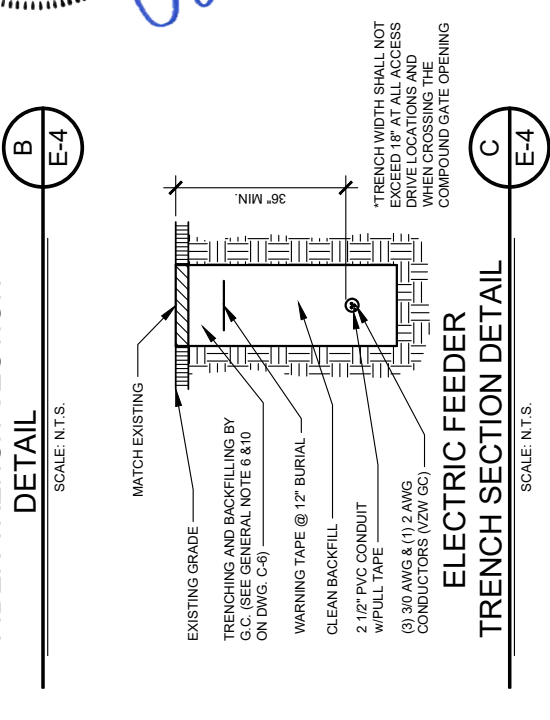
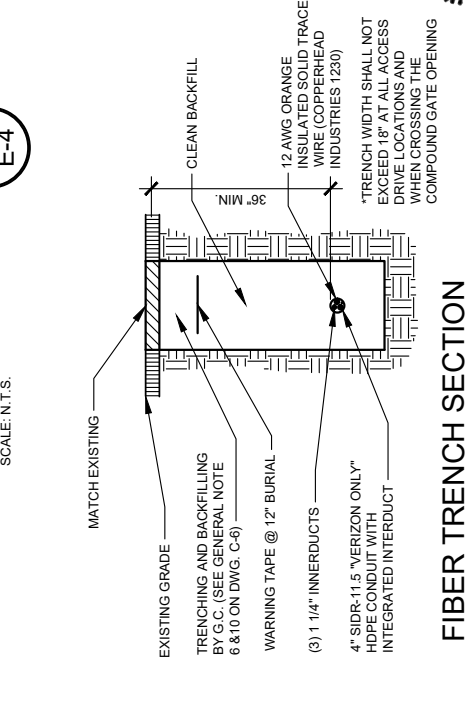
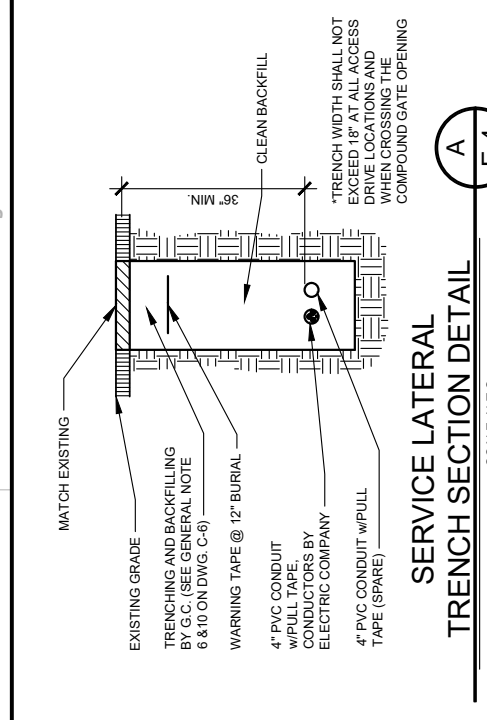
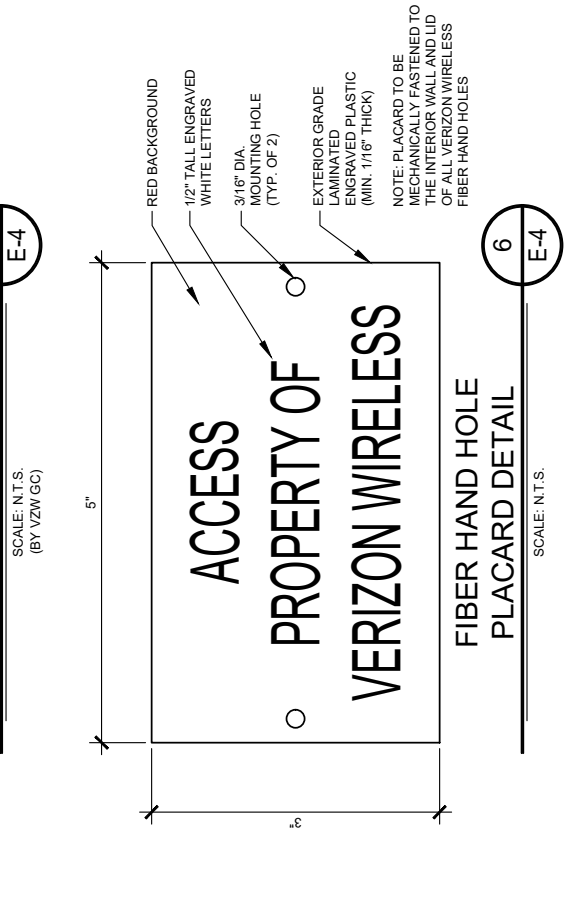
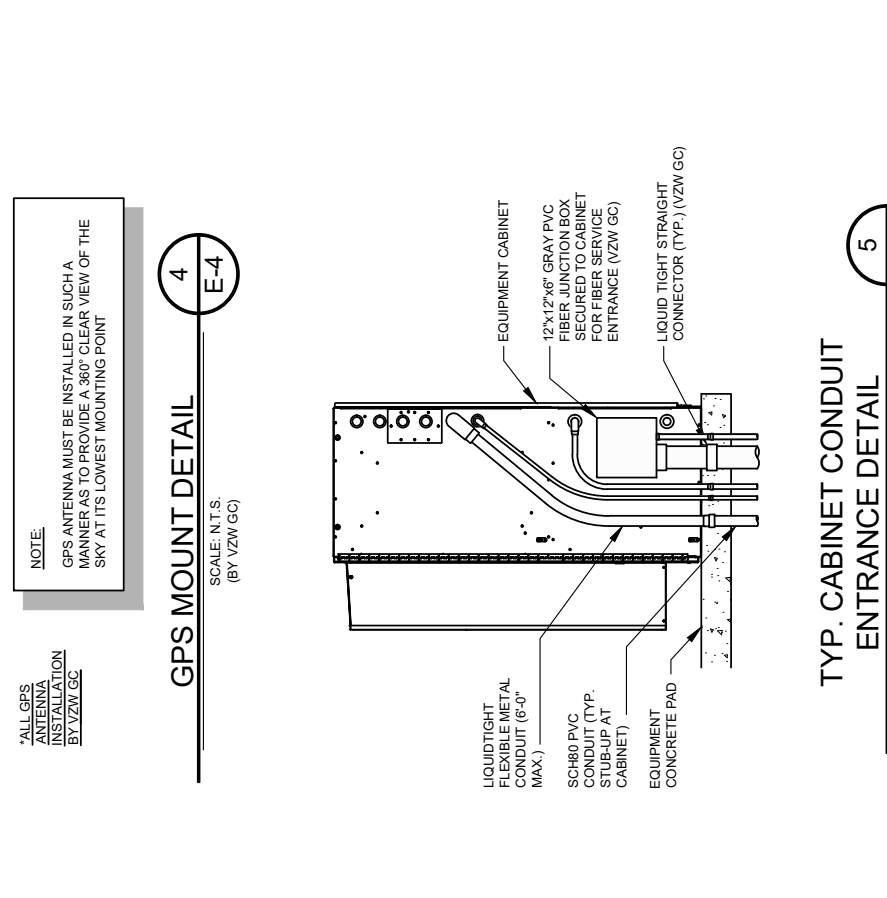
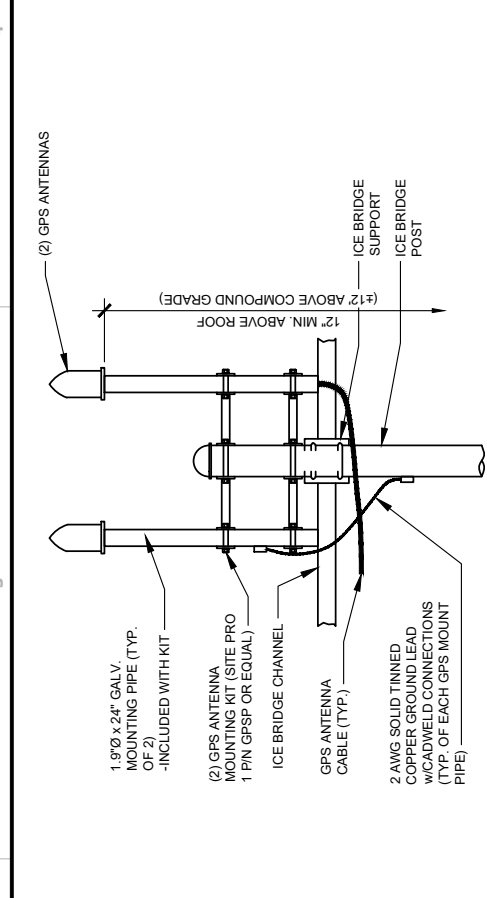
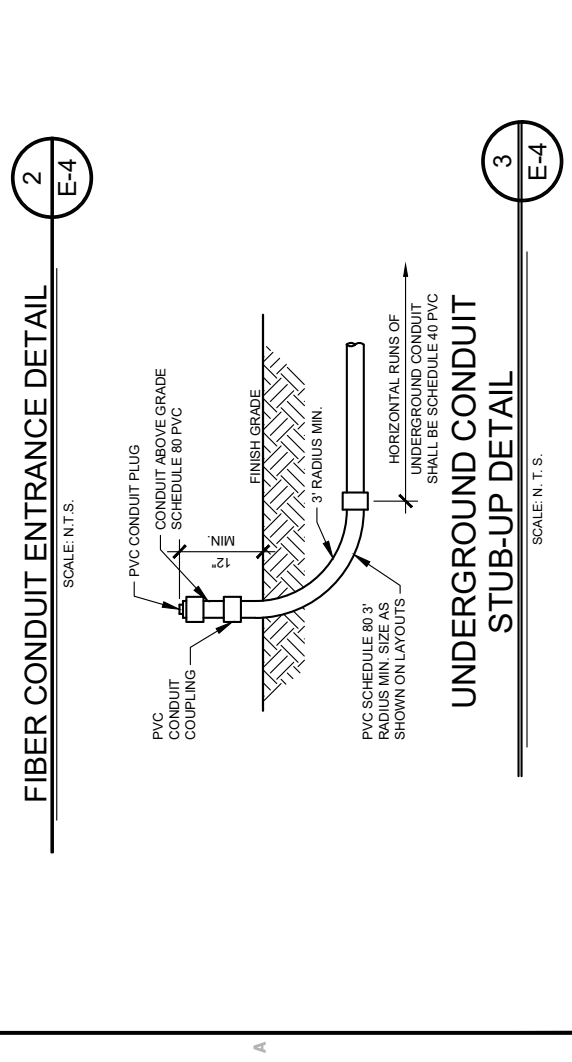
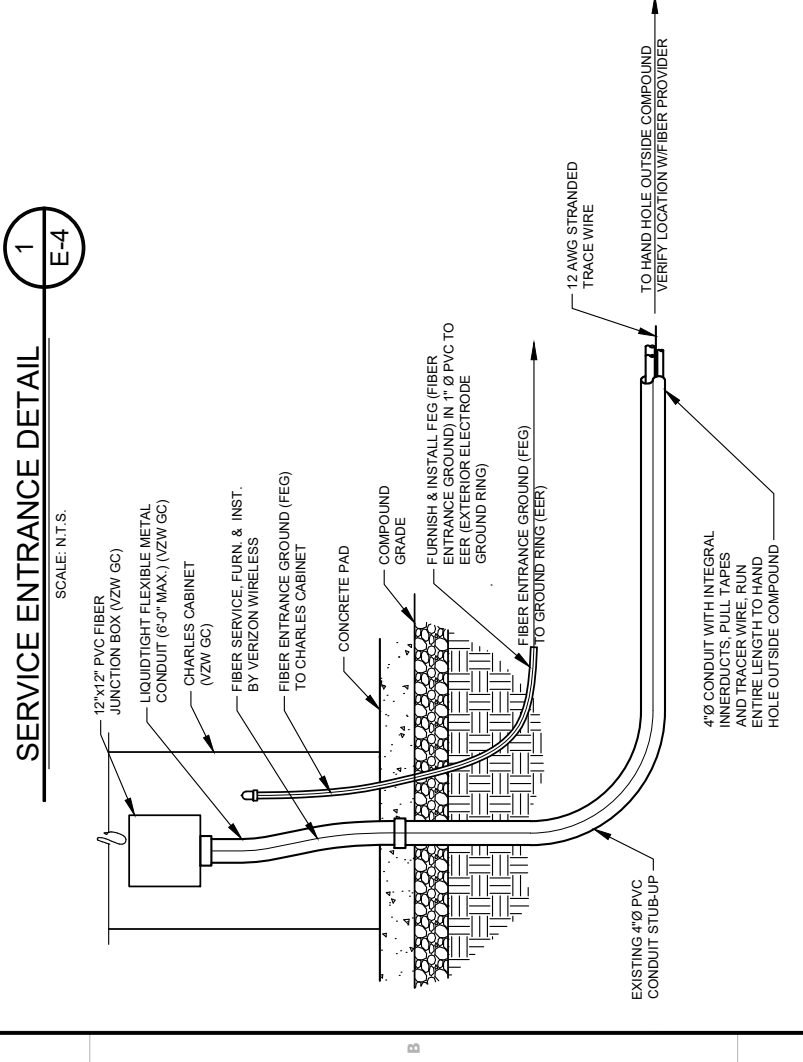
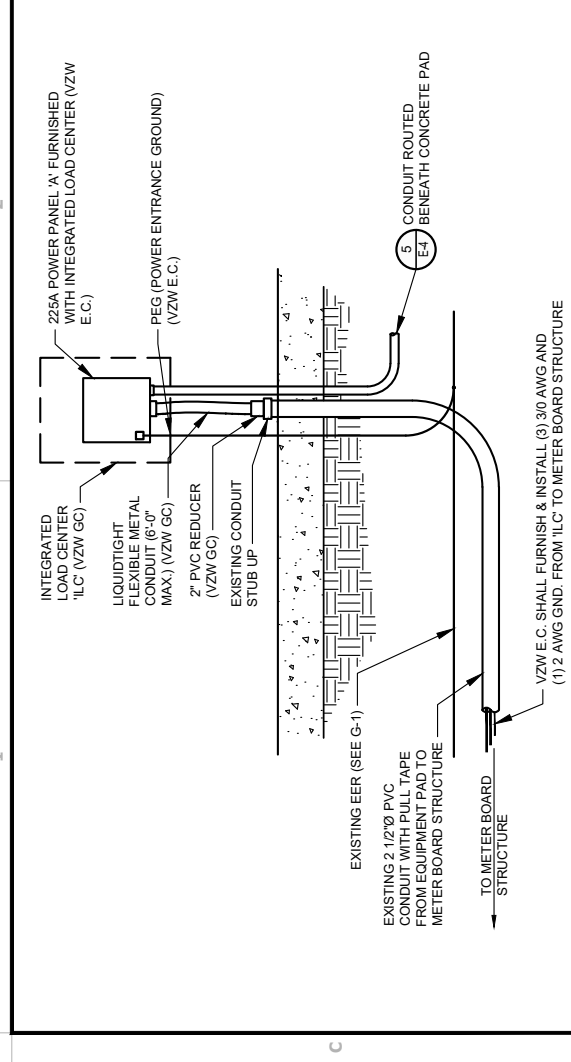
PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO:
2019737.57

E-3

- ### GENERAL ELECTRICAL NOTES
- UNLESS NOTED AS VERIZON WIRELESS GENERAL CONTRACTOR OR VZW GC, ALL WORK ITEMS ON ELECTRICAL "E" & GROUNDING "G" SHEETS SHALL BE PERFORMED BY THE GENERAL CONTRACTOR'S ELECTRICAL CONTRACTOR. ALL WORK SHOWN AS NEW UNLESS NOTED EXISTING.
 - THE GENERAL CONTRACTOR AND VERIZON WIRELESS ELECTRICAL CONTRACTORS SHALL BE LICENSED TO PERFORM WORK IN THE COUNTY OF THIS PROJECT AND SHALL BE RESPONSIBLE FOR OBTAINING AN ELECTRICAL PERMIT FROM THE COUNTY.
 - UNDERGROUND CONDUIT SHALL BE SCH. 40 (SCH. 80 UNDER ROADWAY) PVC PLASTIC DUCT WITH ALL BENDS MINIMUM 24" RADIUS 90° SWEEP SCH. 80 UNLESS OTHERWISE NOTED ON DRAWINGS. ELECTRICAL AND FIBER UTILITY LATERAL CONDUITS SHALL BE MINIMUM 36" RADIUS 90° SWEEP SCH. 80. ALL PVC SCH 80 PIPING AND FITTINGS SHALL USE BELL END WHERE FEASIBLE.
 - ABOVE GRADE RISER CONDUIT SHALL BE RIGID SCH. 80 PVC WITH MATCHING FITTINGS UNLESS NOTED OTHERWISE.
 - ALL CONDUITS SHALL BE PLACED WITH 200 LB POLYETHYLENE PULL TAPES. PULL TAPES SHALL BE SECURELY FASTENED AT EACH END OF CONDUIT. (THIS SHALL ALSO APPLY FOR ALL FIBER CONDUITS).
 - PRIOR TO TRENCHING AND FOR COORDINATING OF THE FIBER AND ELECTRICAL SERVICES, SEE SHEET C-6 GENERAL NOTE #6 FOR UTILITY CONTACT NAMES & PHONE NUMBERS TO ALSO INCLUDE VERIZON WIRELESS CONSTRUCTION MANAGER.
 - ALL WORK SHALL BE IN ACCORDANCE WITH N.F.P.A. AND N.E.C. CODES, NEMA STANDARDS AND ALL LOCAL CODES.
 - ALL WIRE SHALL BE COPPER. 600V THHN-2/THWN-2 OR XHHW-2 90°C UNLESS NOTED OTHERWISE.
 - ALL ELECTRICAL CONTRACTORS SHALL ABIDE BY ALL GUIDELINES REQUIRED BY TOWER OWNER AND VERIZON WIRELESS, INCLUDING BUT NOT LIMITED TO: a) STAGE CONSTRUCTION AND REPORT WHEN ON AND OFF THE SITE. b) PROVIDE LOG BOOK RECORDS OF PERSONNEL ON TOWER. c) PROVIDE RF MONITORING DEVICES TO TOWER PERSONNEL. d) VERIZON WIRELESS TO INSPECT ALL TRENCHING BEFORE BACKFILLING.
 - THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL UNDERGROUND CONDUITS SHOWN ON PLANS UNLESS NOTED OTHERWISE. ALL UNDERGROUND CONDUIT SHALL BE STUBBED-UP AND CAPPED AT THE LOCATION INDICATED ON PLANS. VZW CONTRACTOR SHALL COMPLETE ALL CONDUIT TERMINATIONS TO VZW ENCLOSURES SHOWN ON PLANS AND ELECTRICAL PROVIDER DESIGN.
 - THE VZW ELECTRICAL CONTRACTOR SHALL VERIFY ELECTRICAL SERVICE REQUIRED - 120/240V, SINGLE PHASE, 200 AMP BEFORE ROUGH IN.
 - GENERAL CONTRACTOR AND VZW ELECTRICAL CONTRACTORS SHALL PROVIDE FIRE WATCH DURING ALL WELDING OPERATIONS. TWO (2) HAND HELD 30 LB. FIRE EXTINGUISHERS & ADEQUATE WATER SUPPLY SHALL BE APPROVED BY THE CLIENT AND THE TOWNSHIP WATER AUTHORITY.
 - SEAL ALL PENETRATIONS WITH SILICONE SEALANT.
 - ELECTRICAL WORK PRESENTS SPECIFIC THREATS TO THE HEALTH AND SAFETY OF WORKERS ON SITE. SPECIFICALLY ELECTROCUTIONS ARE THE FOURTH LEADING CAUSE OF DEATH ON CONSTRUCTION SITES. ALL ELECTRICAL WORKERS SHALL HAVE CURRENT CERTIFICATIONS WHICH SATISFY ALL TRAINING REQUIREMENTS FOR THE ELECTRICAL WORK THEY ARE PERFORMING PER OSHA STANDARDS. ALL ELECTRICAL WORKERS SHALL ADHERE TO ALL SAFETY RULES AND REGULATIONS FOR WORKER AND PUBLIC SAFETY. ALL WORK SHALL BE PERFORMED BY QUALIFIED ELECTRICIANS TRAINED FOR THE TYPE OF ALL LANDOWNER, PRIME CONTRACTOR, CARRIER, OSHA, NFPA 70E, AND LOCAL SAFETY REGULATIONS AND AT ALL TIMES SHALL CONFORM TO THE MOST RESTRICTIVE OF THESE STANDARDS TO ENSURE A SAFE WORKPLACE.
 - CONNECT NEUTRAL TERMINAL IN SERVICE DISCONNECTING DEVICE TO GROUNDING ELECTRODE (10 AWG TINNED STRANDED COPPER GROUNDING ELECTRODE CONDUCTOR IN 1" PVC CONDUIT). CONNECT FIRST GROUNDING ELECTRODE TO SECOND GROUNDING ELECTRODE WITH 20 AWG TINNED STRANDED COPPER CONDUCTOR EXOTHERMICALLY WELDED TO ELECTRODES.
 - VZW E.C. SHALL VERIFY SUFFICIENT CAPACITY EXISTS AT EXISTING METER CENTER. NOTIFY ENGINEER IMMEDIATELY IF SERVICE IS NOT ADEQUATE.
 - REFER TO ELECTRICAL SITE PLAN FOR CONDUIT AND WIRE REQUIREMENTS.
 - ALL ELECTRICAL EQUIPMENT PLACARDS MUST BE ENGRAVED PLASTIC LABELS ONLY. NO P-TOUCH LABELS ARE TO BE USED. PLACARDS SHALL BE 1 1/2" x 5" IN SIZE AND PERMANENTLY AFFIXED TO THE ENCLOSURES EASILY VISIBLE LOCATIONS.
 - VERIZON WIRELESS ELECTRICAL PLACARD REQUIREMENTS: a) AVAILABLE FAULT CURRENT RATING FROM UTILITY PROVIDER WITH DATE. b) VERIZON WIRELESS SERVICE DISCONNECT AT METER BASE. c) VERIZON MAIN BREAKER AT INTEGRATED LOAD CENTER ILC. d) VERIZON NEUTRAL CONDUCTOR BONDED TO SERVICE GROUNDING ELECTRODE IN THIS ENCLOSURE AT METER CENTER AND AUTOMATIC TRANSFER SWITCH "ATS" NEUTRAL BAR. e) VERIZON WIRELESS GENERATOR. f) ACCESS PROPERTY OF VERIZON WIRELESS' AT ALL VERIZON WIRELESS FIBER HAND HOLES FASTENED TO INSIDE WALL OF HAND HOLE.
 - ALL EQUIPMENT SHALL BE GROUNDED PER LATEST EDITION OF NEC AND AS INDICATED ON GROUNDING PLAN.
 - ELECTRICAL EQUIPMENT SHALL BE MIN 3'-0" FROM ANY STRUCTURE AND AS REQUIRED BY LOCAL UTILITY COMPANIES.
 - 2 AWG BARE SOLID TINNED COPPER WIRE LEADS FROM NEW H-FRAME STRUCTURE TO BE BONDED TO EXISTING GROUNDING SYSTEM (TYP)
 - ALL METALLIC CABINETS & ENCLOSURES MUST BE GROUNDED WITH 2 AWG TO GROUND RING.
 - ALL ABOVE GRADE GROUND VZW CONNECTIONS SHALL BE IN 1/2" FLEXIBLE PVC CONDUIT WANTI-THEFT COMPOUND. ALL OTHER LEADS SHALL BE IN 1/2" PVC CONDUIT.
 - ALL HARDWARE USED MUST BE GALVANIZED OR STAINLESS STEEL. NO ZINC OR OTHER MATERIAL IS TO BE USED.
 - VERIZON WIRELESS FURNISH & INSTALL ALL INNER CONNECTING CONDUITS BETWEEN CABINETS AND LAND ALL AC POWER TO VZW EQUIPMENT.
 - ALL CONDUIT RUNS SHALL HAVE A CONTINUOUS SLOPE DOWNWARD AND AWAY FROM THE METERBOARD SO THAT WATER WILL NOT FLOW FROM THE EQUIPMENT. TRENCHES SHALL BE EXCAVATED ALONG STRAIGHT LINES BEFORE CONDUIT ARE INSTALLED SO THE ELEVATION CAN BE ADJUSTED, IF NECESSARY, TO AVOID UNSEEN OBSTACLES.
 - PRIOR TO THE SUBMISSION OF BIDS, THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL VERIFY ALL DETAILS AND SCHEDULES ON THE DRAWINGS AND ADDITIONAL REQUIREMENTS AND INFORMATION FOR MECHANICAL AND OTHER MECHANICAL AND ELECTRICAL DRAWINGS FOR SCALE. SPACE LIMITATIONS, DOOR SWINGS, ADJACENT CARRIER COORDINATION AND ADDITIONAL INFORMATION, ETC. REPORT ANY DISCREPANCIES, CONFLICTS, ETC. TO THE OWNER BEFORE SUBMITTING BIDS.

1 2 3 4 5



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C	09/22/23	FINAL CDS
1	10/17/2023	UPDATED ADJOINERS MAP

STEVEN P. SCHAUB
29008
LICENSED PROFESSIONAL ENGINEER
STATE OF KENTUCKY
10/17/2023

KIRKSEY
FIRE STATION DR
KIRKSEY, KY 42054
ELECTRICAL DETAILS

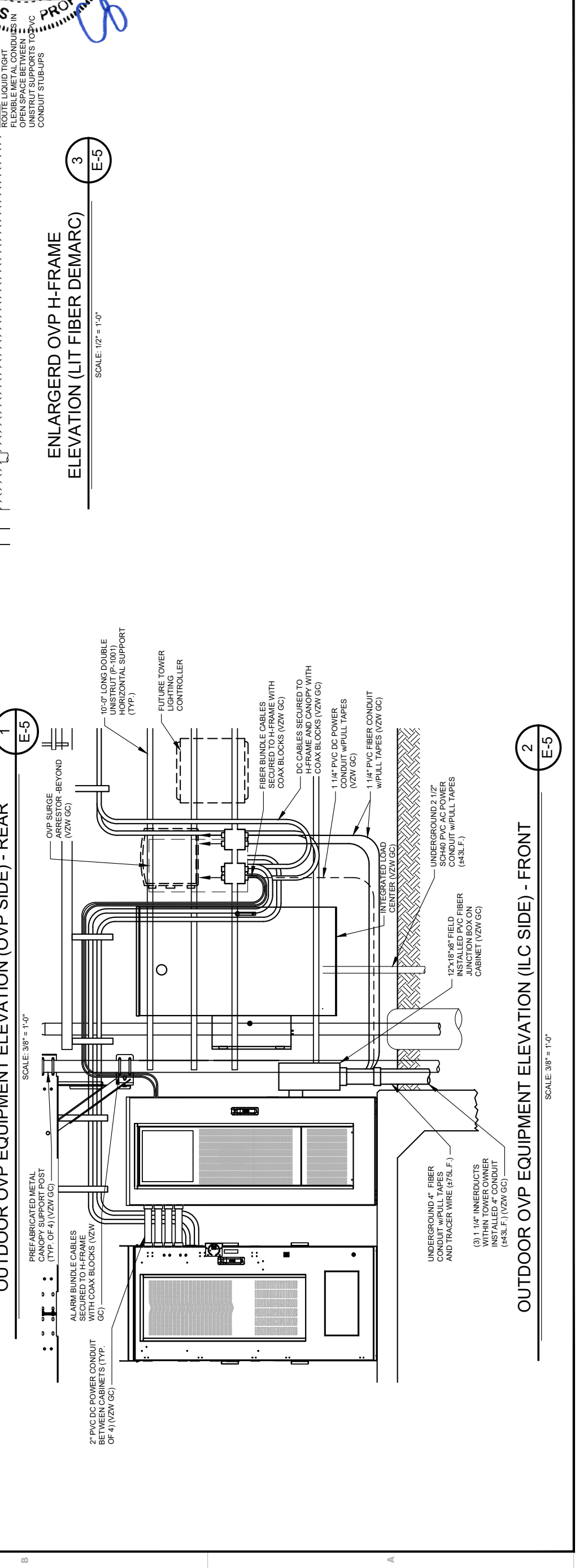
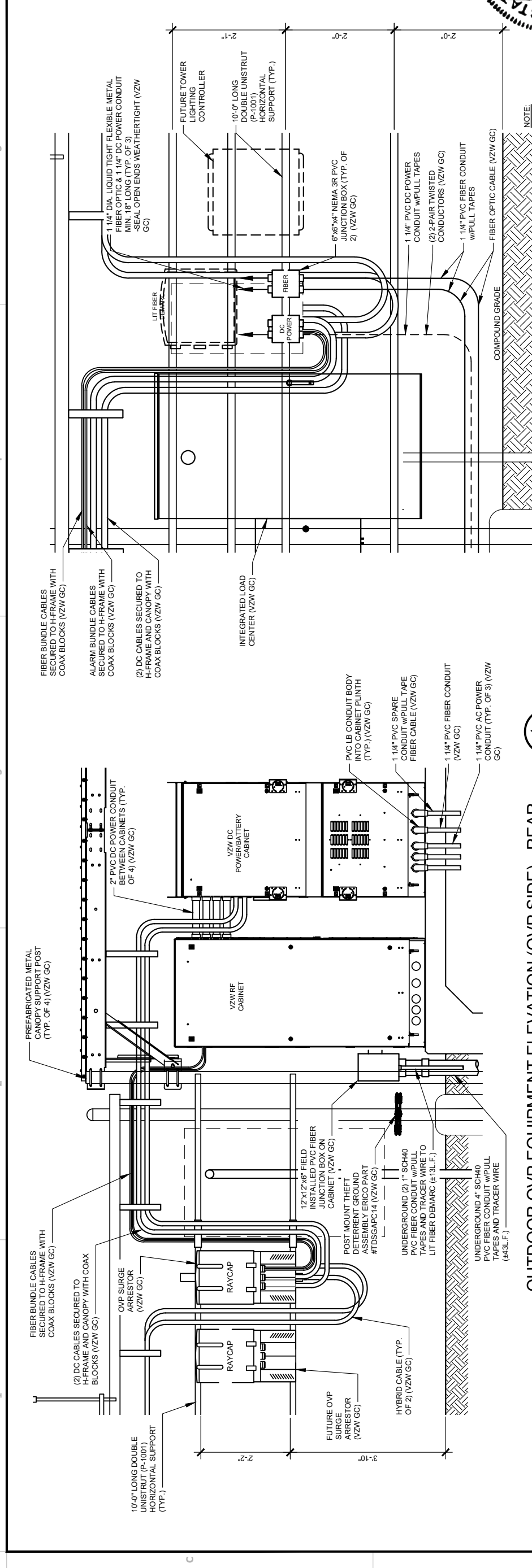
ISSUED FOR:	
REVIEW	---
PERMIT	---
CONSTRUCTION	---
RECORD	---

PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO.
2019737.57

E-4

<p>Southern Towers 250 SIGNAL MOUNTAIN ROAD, SUITE B CHATTANOOGA, TN 37405</p>	<p>520 South Main Street, Suite 2531 Akron, OH 44311 330.572.2100 Fax 330.572.2101</p>	<p>ISSUED FOR 90% REVIEW A 08/15/23 UPDATED PER NEW MIK TEMPLATE B 08/15/23 UPDATED PER NEW MIK TEMPLATE C 09/27/23 FINAL CDS D 10/17/23 UPDATED ADJOINERS MAP</p>	<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>NO.</th><th>DESCRIPTION</th></tr> <tr><td>1</td><td>10/17/23 UPDATED ADJOINERS MAP</td></tr> <tr><td>2</td><td></td></tr> <tr><td>3</td><td></td></tr> </table>	NO.	DESCRIPTION	1	10/17/23 UPDATED ADJOINERS MAP	2		3		<p>STEVEN P. SCHAUB 29008 LICENSED PROFESSIONAL ENGINEER 10/17/2023</p>	<p>KIRKSEY FIRE STATION DR KIRKSEY, KY 42054</p>	<p>OVP & INTEGRATED LOAD CENTER H-FRAME ELEVATIONS AND DETAIL</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>ISSUED FOR:</td><td>---</td></tr> <tr><td>REVIEW:</td><td>---</td></tr> <tr><td>PERMIT:</td><td>---</td></tr> <tr><td>CONSTRUCTION:</td><td>---</td></tr> <tr><td>RECORD:</td><td>---</td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>PROJECT MANAGER:</td><td>DESIGNER:</td></tr> <tr><td>TTP:</td><td>SEK</td></tr> </table>	ISSUED FOR:	---	REVIEW:	---	PERMIT:	---	CONSTRUCTION:	---	RECORD:	---	PROJECT MANAGER:	DESIGNER:	TTP:	SEK	<p>JOB NO. 2019737.57</p>	<p>E-5</p>
NO.	DESCRIPTION																														
1	10/17/23 UPDATED ADJOINERS MAP																														
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3																															
ISSUED FOR:	---																														
REVIEW:	---																														
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RECORD:	---																														
PROJECT MANAGER:	DESIGNER:																														
TTP:	SEK																														



1 **E-5**
 OUTDOOR OVP EQUIPMENT ELEVATION (OVP SIDE) - REAR
 SCALE: 3/8" = 1'-0"

2 **E-5**
 OUTDOOR OVP EQUIPMENT ELEVATION (ILC SIDE) - FRONT
 SCALE: 3/8" = 1'-0"

3 **E-5**
 ENLARGED OVP H-FRAME
 ELEVATION (LIT FIBER DEMARC)
 SCALE: 1/2" = 1'-0"

NOTE:
 ROUTE LIQUID TIGHT FLEXIBLE METAL CONDUITS IN OPEN SPACE BETWEEN UNISTRUT SUPPORTS TO PVC UNISTRUT SUPPORTS TO PVC CONDUIT STUB-UPS

1 2 3 4 5

Southern Towers
 250 SIGNAL MOUNTAIN ROAD, SUITE B
 CHATTANOOGA, TN 37405

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REFERENCE ONLY

KIRKSEY
 FIRE STATION DR
 KIRKSEY, KY 42054

EQUIPMENT CABINET ELEVATIONS

ISSUED FOR:	
REVIEW	---
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CONSTRUCTION	---
RECORD	---

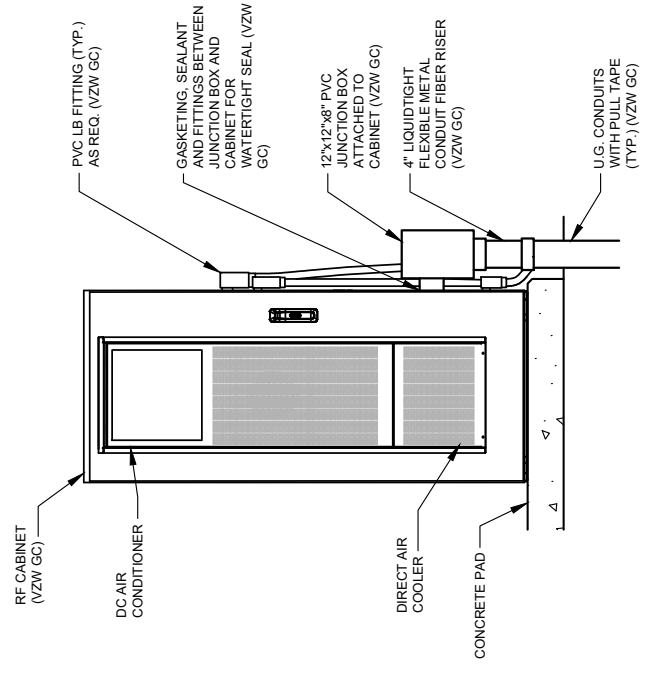
PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO.
2019737.57

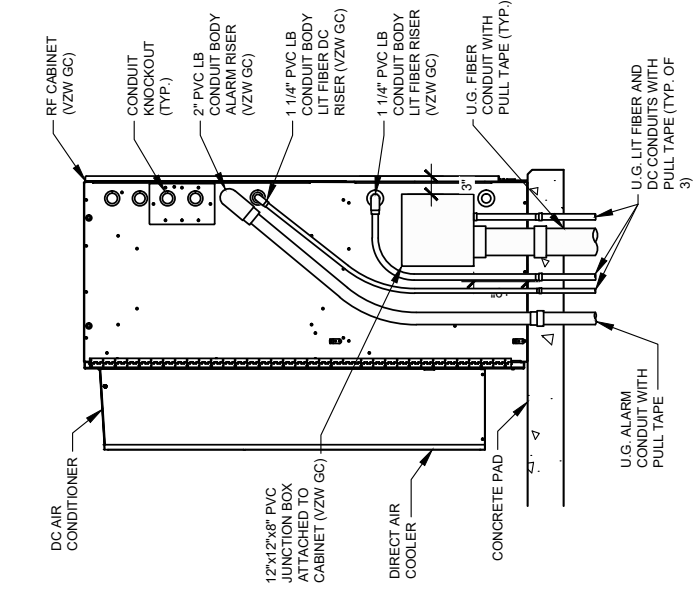
E-6

NOTE:
 VERIFY INTERIOR EQUIPMENT LOCATION PRIOR TO JUNCTION BOX FASTENER INSTALLATION. NO SHARP FASTENER EDGES PERMITTED WITHIN CHARLES CABINET

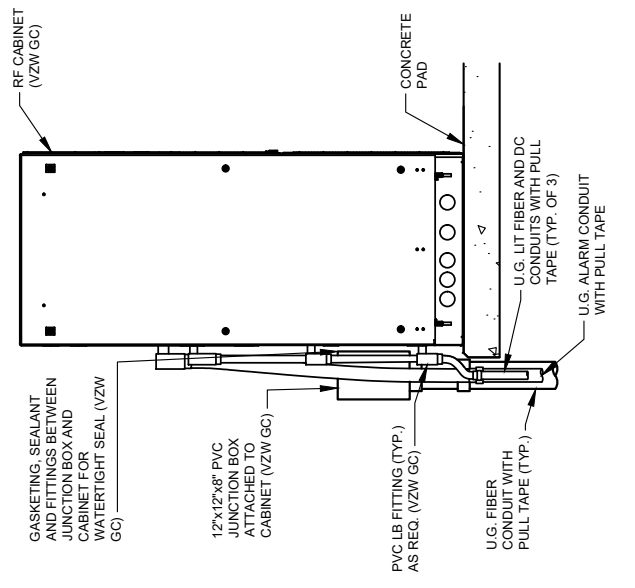
NOTE:
 FIBER OPTIC INNERDUCTS SHALL TERMINATE INSIDE CHARLES CABINET ONLY



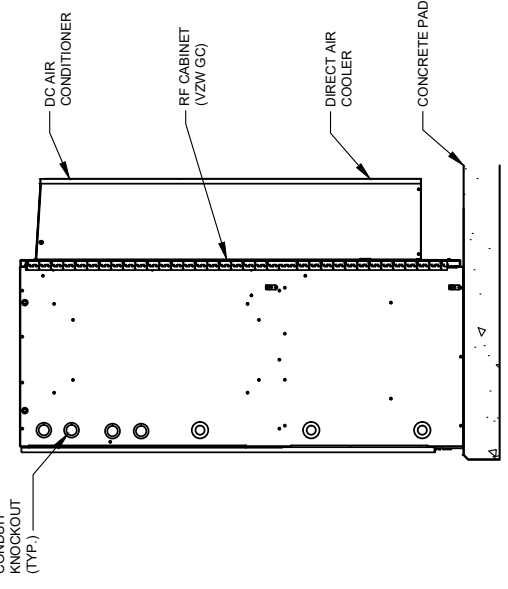
RF CABINET FRONT ELEVATION
 SCALE: N.T.S.



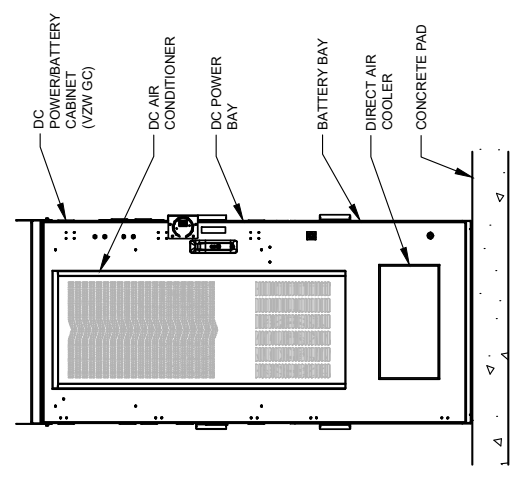
RF CABINET RIGHT ELEVATION
 SCALE: N.T.S.



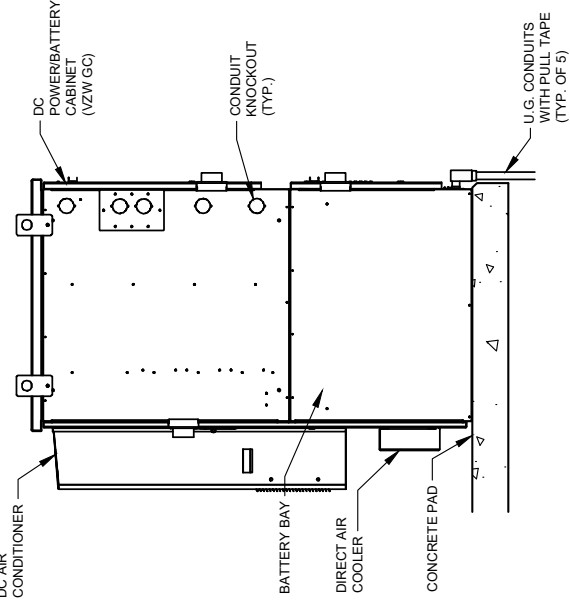
RF CABINET REAR ELEVATION
 SCALE: N.T.S.



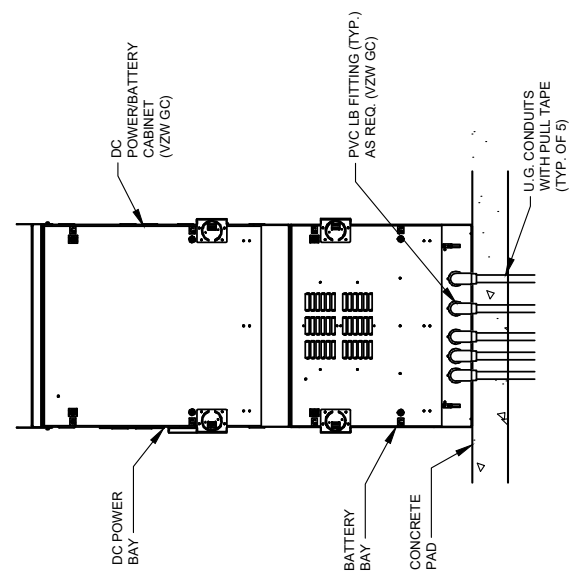
RF CABINET LEFT ELEVATION
 SCALE: N.T.S.



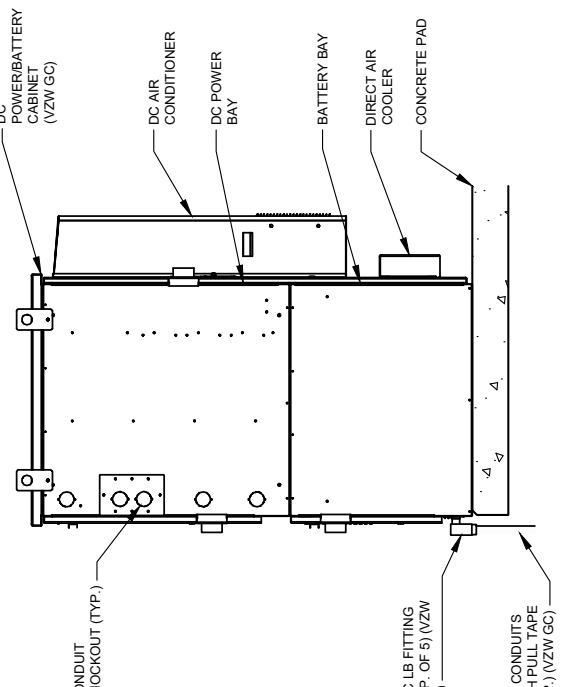
DC POWER/BATTERY CABINET FRONT ELEVATION
 SCALE: N.T.S.



DC POWER/BATTERY CABINET RIGHT ELEVATION
 SCALE: N.T.S.



DC POWER/BATTERY CABINET REAR ELEVATION
 SCALE: N.T.S.



DC POWER/BATTERY CABINET LEFT ELEVATION
 SCALE: N.T.S.

1 2 3 4 5

120 VAC MOTION DETECTOR AIM TOWARDS
 COMPOUND ACCESS GATE (VZW GC)
 -WIRED TO LIGHT CIRCUIT
 -SENSOR MUST BE MOUNTED ON THE POST
 NEAREST THE COMPOUND ACCESS GATE
 -PROVIDE MANUAL OVERRIDE
 -(1) WATTSTOPPER (P/N EW-200-120-W)

LOCAL MANUAL MOTION
 SENSOR OVERRIDE TOGGLE
 SWITCH w/60 MINUTE TIMER
 RATED AT 15A FOR 120 VAC IN
 NEMA 3R ENCLOSURE. MOUNT
 TO CANOPY SUPPORT (VZW
 GC)

120VAC LED FLOODLIGHT MOUNTED TO CHANNEL
 STRUT MOUNTED CENTERLINE OF CANOPY FRAME.
 AIM LIGHT TOWARDS EQUIPMENT. FIXTURES SHALL
 BE CONTROLLED WITH LOCALLY MOUNTED 120 VAC
 MOTION DETECTOR (VZW GC)
 -4) LITHONIA LIGHTING
 (P/N OF L1-LED-PI-40K-MVOL-T-THK-DBBXD)

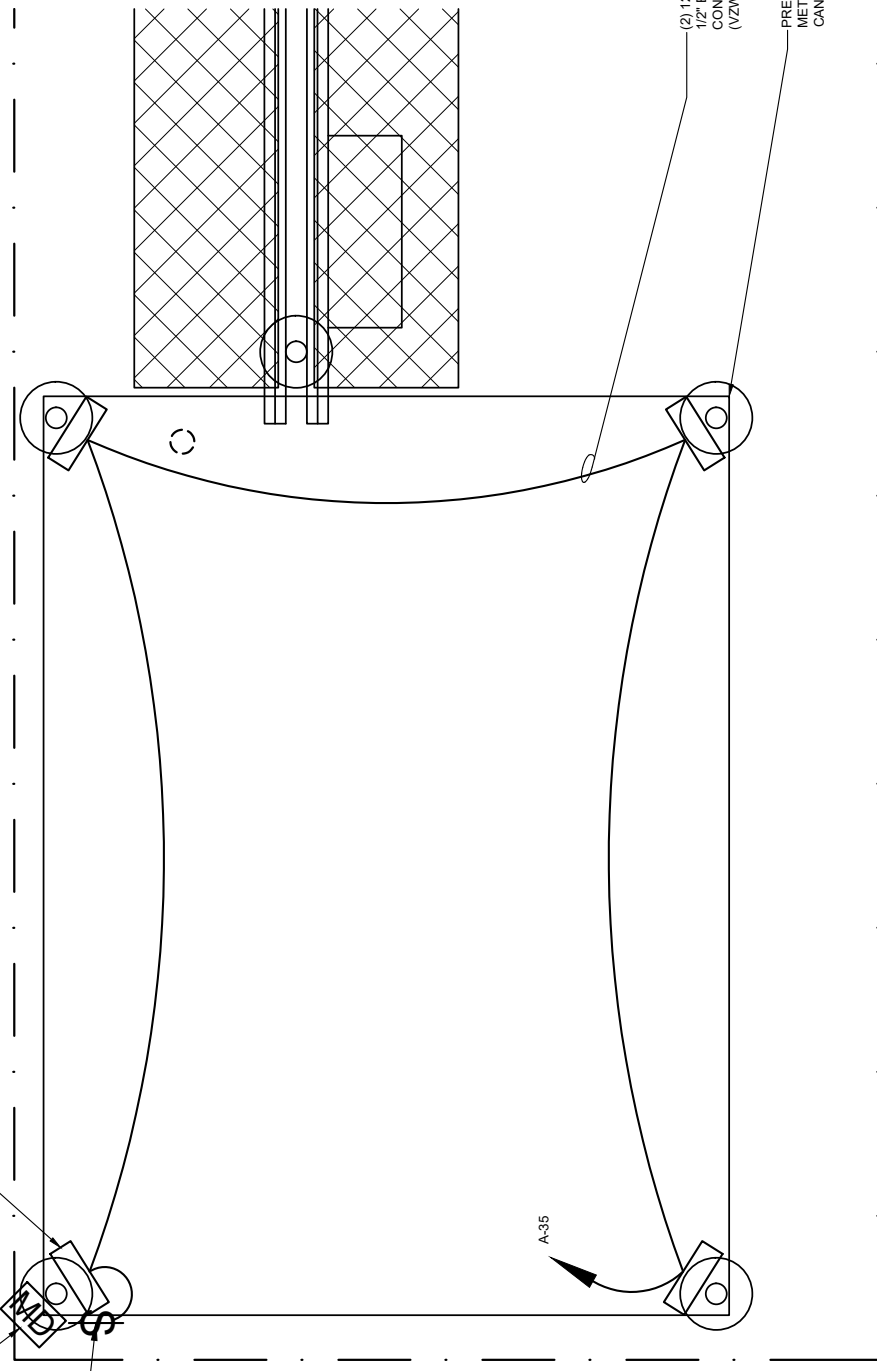
A-35

(2) 1/2" AWG IN
 1/2" EMT
 CONDUIT (TYP.)
 (VZW GC)

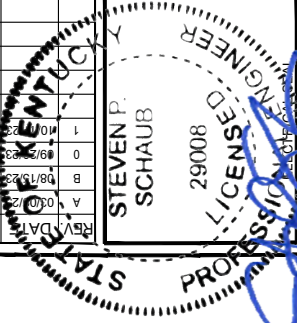
PREFABRICATED VZW
 METAL EQUIPMENT
 CANOPY (VZW GC)

**EQUIPMENT PAD
 LIGHTING PLAN**

SCALE: N.T.S.



REV.	DATE	DESCRIPTION
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B	08/15/23	UPDATED PER NEW MIK TEMPLATE
0	09/27/23	FINAL CDS
1	10/17/23	UPDATED ADONERS MAP



KIRKSEY
 FIRE STATION DR
 KIRKSEY, KY 42054

**EQUIPMENT PAD
 LIGHTING PLAN**

ISSUED FOR:	
REVIEW	---
PERMIT	---
CONSTRUCTION	---
RECORD	---

DESIGNER	
PROJECT MANAGER	TTP
DESIGNER	SEK

JOB NO.
2019737.57

E-7

Southern Towers
 250 SIGNAL MOUNTAIN ROAD, SUITE B
 CHATTANOOGA, TN 37405

520 South Main Street, Suite 2531
 Akron, OH 44311
 330.572.2100 Fax 330.572.2101

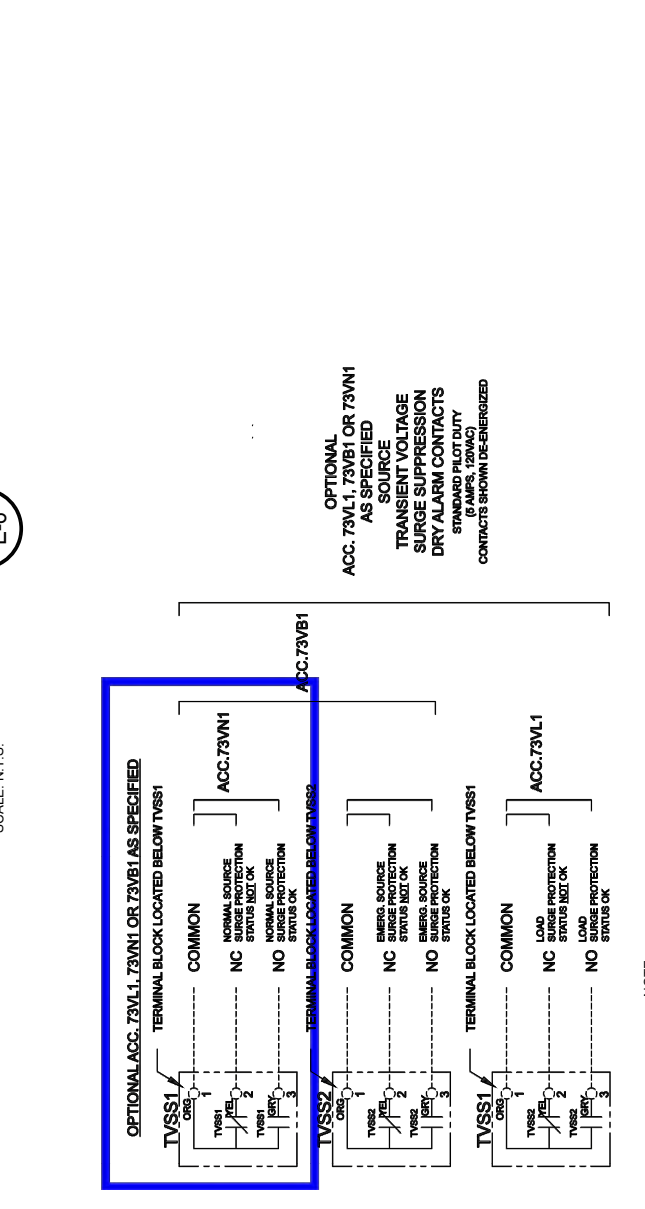
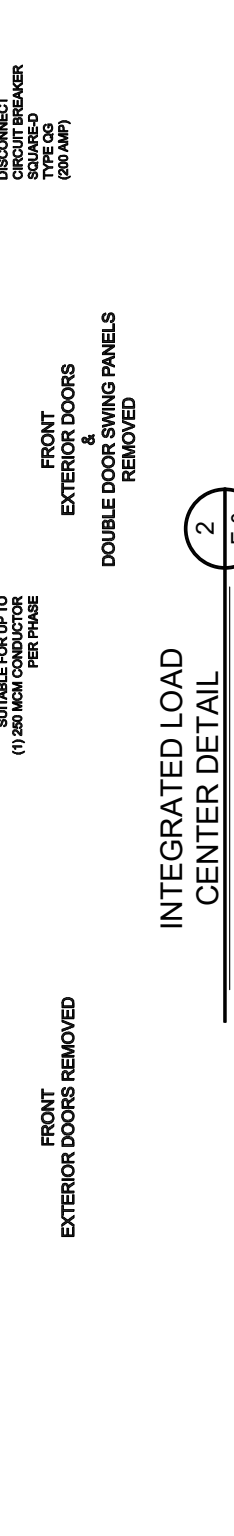
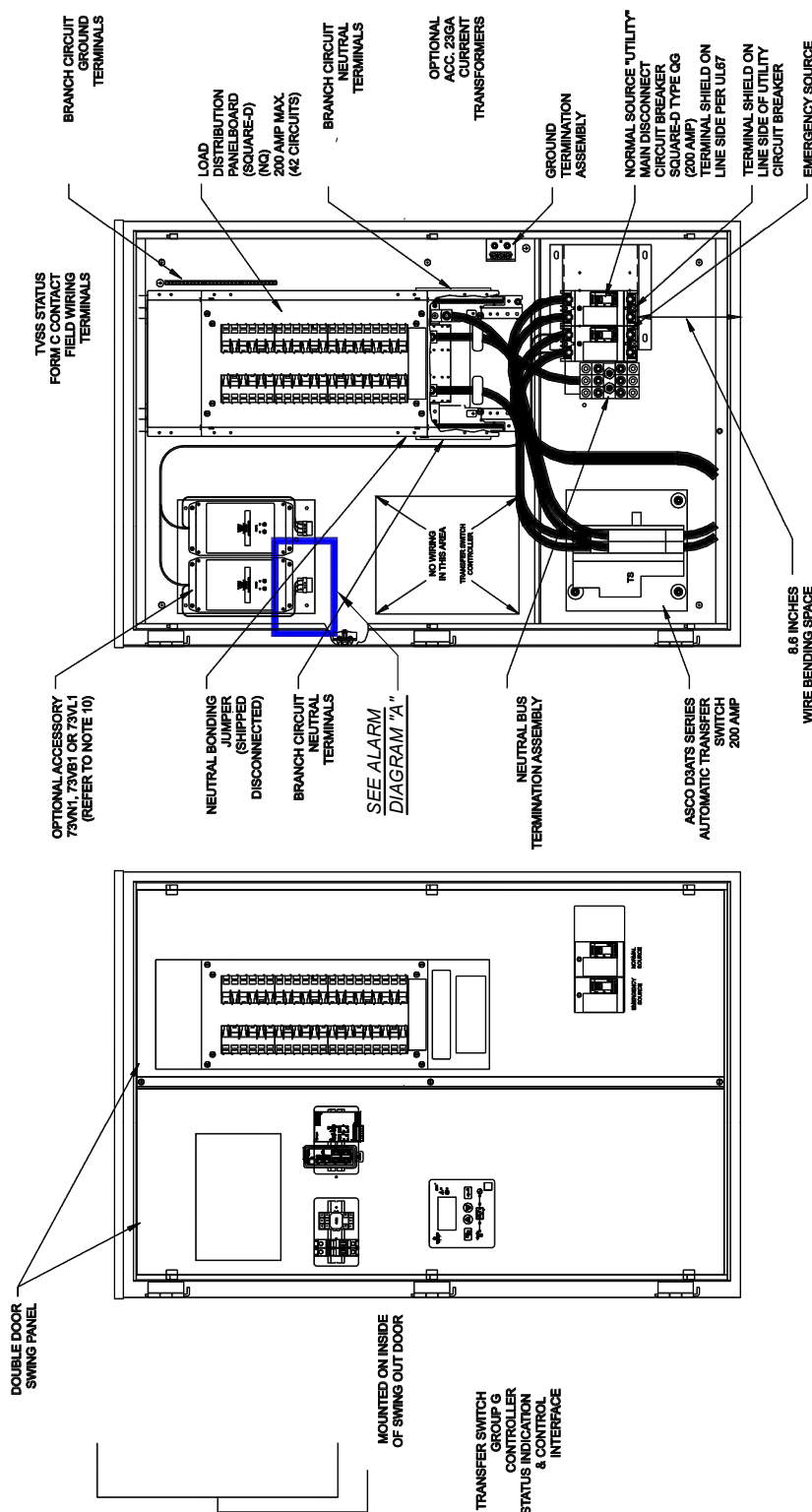


Alarm wiring table

Alarm block Pos	RMX - 4000 Wiring		Install on right side of panel when facing front of panel		Alarm		Misc Wiring - left side of panel		Conn/Pos
	Wire color	Wire Color	Wire Color	Wire Color	Alarm	Alarm	Wire Color	Alarm	
1	White/Orange	White or Blue	Orange	Orange	Door Intrusion	Intrusion Alarm	Orange	Intrusion Alarm	
2	Orange	White or Blue	White/Orange	White/Orange	Commercial Power Failure	N/A	N/A	N/A	
3	White/Green	White or Blue	N/A	N/A	Surge Suppressor Lightning Arrestor	N/A	N/A	N/A	
4	Green	White or Blue	N/A	N/A	Rectifier Failure	Rectifier Failure	Green/White	Rectifier Failure	J4 Pos 8
5	White/Blue	White or Blue	N/A	N/A	Multiple Rectifier Failure	Multiple Rectifier Failure	Red/Green	Multiple Rectifier Failure	J4 Pos 18
6	Blue	White or Blue	N/A	N/A	Battery Discharge	Battery Discharge	White/Red	Battery Discharge	J4 Pos 9
7	White/Brown	White or Blue	N/A	N/A	Low Voltage	Low Voltage	Red/W/White	Low Voltage	J4 Pos 19
8	Brown	White or Blue	N/A	N/A	DC Power Failure	DC Power Failure	White	DC Power Failure	J4 Pos 14
9	White/Orange	Black or Blue	White	White	Generator Running	Generator Running	White/Black	Generator Running	J4 Pos 5
10	Orange	Black or Blue	Black	Black	Generator Low Fuel	Generator Low Fuel	Black	Generator Low Fuel	J4 Pos 15
11	Green	Black or Blue	N/A	N/A	Generator Failure	Generator Failure	Black/W/White	Generator Failure	J4 Pos 6
12	White/Orange	Black or Blue	N/A	N/A	HVAC Failure	HVAC Failure	Blue/W/White	HVAC Failure	J4 Pos 20
13	Orange	Black or Blue	N/A	N/A	High Temp	High Temp	Red/Black	High Temp	
14	White/Green	Yellow or Blue	White	White	Low Temp	Low Temp	N/A	Low Temp	
15	Green	Yellow or Blue	N/A	N/A	Tower Light	Tower Light	N/A	Tower Light	
16	White/Blue	Yellow or Blue	N/A	N/A	Tower Light Side	Tower Light Side	N/A	Tower Light Side	
17	Blue	Yellow or Blue	N/A	N/A	RRH Upconverter Failure	RRH Upconverter Failure	N/A	RRH Upconverter Failure	
18	White/Brown	Violet or Blue	White/Blue	White/Blue	RRH Power Failure	RRH Power Failure	Blue	RRH Power Failure	
19	Brown	Violet or Blue	N/A	N/A	RRH High Humidity	RRH High Humidity	N/A	RRH High Humidity	
20	White/Orange	Violet or Blue	N/A	N/A	RRH Intrusion	RRH Intrusion	N/A	RRH Intrusion	
21	Orange	Violet or Blue	N/A	N/A	Smoke Fire	Smoke Fire	N/A	Smoke Fire	
22	White/Green	Blue	N/A	N/A	Bus Bar Theft	Bus Bar Theft	N/A	Bus Bar Theft	
23	Green	Blue	N/A	N/A	N/A	N/A	N/A	N/A	
24	White/Brown	Blue	N/A	N/A	N/A	N/A	N/A	N/A	
25	Brown	Blue	N/A	N/A	N/A	N/A	N/A	N/A	
26	White/Orange	Orange or Blue	N/A	N/A	Microwave Critical	Microwave Critical	N/A	Microwave Critical	
27	Orange	Orange or Blue	N/A	N/A	Microwave Major	Microwave Major	N/A	Microwave Major	
28	White/Green	Orange or Blue	N/A	N/A	Dehydrator Alarm	Dehydrator Alarm	N/A	Dehydrator Alarm	
29	Green	Blue	N/A	N/A	Fire Suppression Discharge	Fire Suppression Discharge	N/A	Fire Suppression Discharge	
30	White/Brown	Green or Blue	N/A	N/A	Fire Suppression Trouble	Fire Suppression Trouble	N/A	Fire Suppression Trouble	
31	Brown	Green or Blue	N/A	N/A	Secondary HVAC Running	Secondary HVAC Running	N/A	Secondary HVAC Running	
32	White/Orange	Green or Blue	N/A	N/A	Explosive gas	Explosive gas	N/A	Explosive gas	
33	Orange	Green or Blue	N/A	N/A	High Humidity	High Humidity	N/A	High Humidity	
34	White/Green	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
35	Green	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
36	White/Blue	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
37	White/Blue	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
38	Blue	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
39	White/Brown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
40	Brown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
41	White/Orange	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
42	Orange	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
43	White/Green	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
44	Green	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
45	White/Blue	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
46	Blue	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
47	White/Brown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
48	Brown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
49	White/Orange	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
50	Orange	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
51	White/Green	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
52	Green	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
53	White/Blue	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
54	Blue	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
55	White/Brown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
56	Brown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
57	White/Orange	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
58	Orange	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
59	White/Green	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
60	Green	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
61	White/Blue	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
62	Blue	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
63	White/Brown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
64	Brown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
65-84	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

1
E-8

ALARM WIRING TABLE
SCALE: N.T.S.



A
E-8

ALARM DIAGRAM "A"
SCALE: N.T.S.

Southern Towers
250 SIGNAL MOUNTAIN ROAD, SUITE B
CHATTANOOGA, TN 37405

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0	09/20/23	FINAL CDS
1	10/17/23	UPDATED ADJOINERS MAP

REFERENCE ONLY
ELECTRICAL SEAL

KIRKSEY
FIRE STATION DR
KIRKSEY, KY 42054
ALARM TABLE AND DETAILS (REFERENCE ONLY)

ISSUED FOR:	REVIEW	PERMIT	CONSTRUCTION	RECORD
---	---	---	---	---

PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO.
20191737.57

E-8

REV.	DATE	DESCRIPTION
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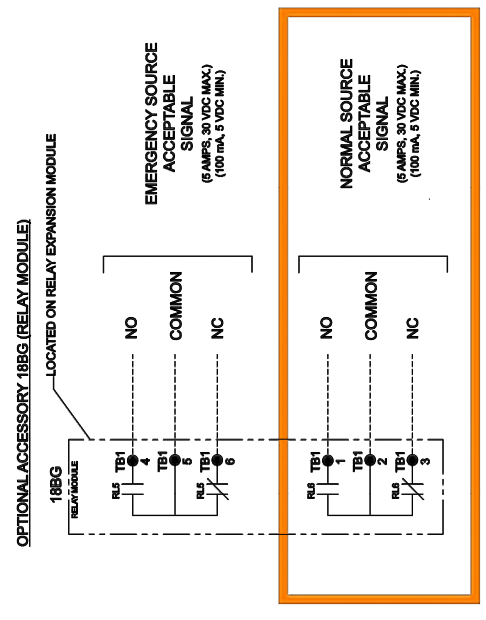
REFERENCE ONLY
 ELECTRICAL SEAL

KIRKSEY
 FIRE STATION DR
 KIRKSEY, KY 42054
 ALARMING DIAGRAMS
 AND DETAILS
 (REFERENCE ONLY)

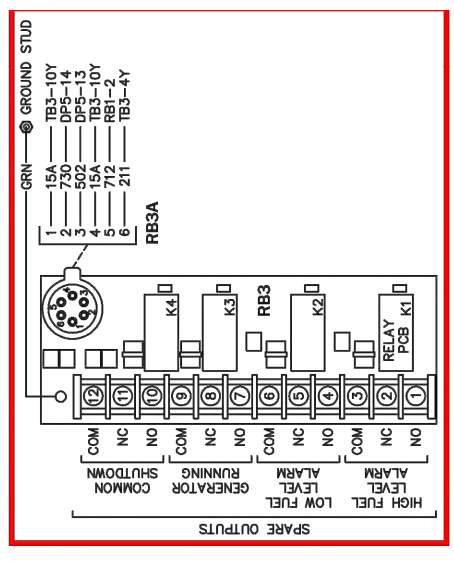
ISSUED FOR:	DESIGNER
REVIEW	SEK
PERMIT	
CONSTRUCTION	
RECORD	
PROJECT MANAGER	
TTP	

JOB NO.
 2019737.57

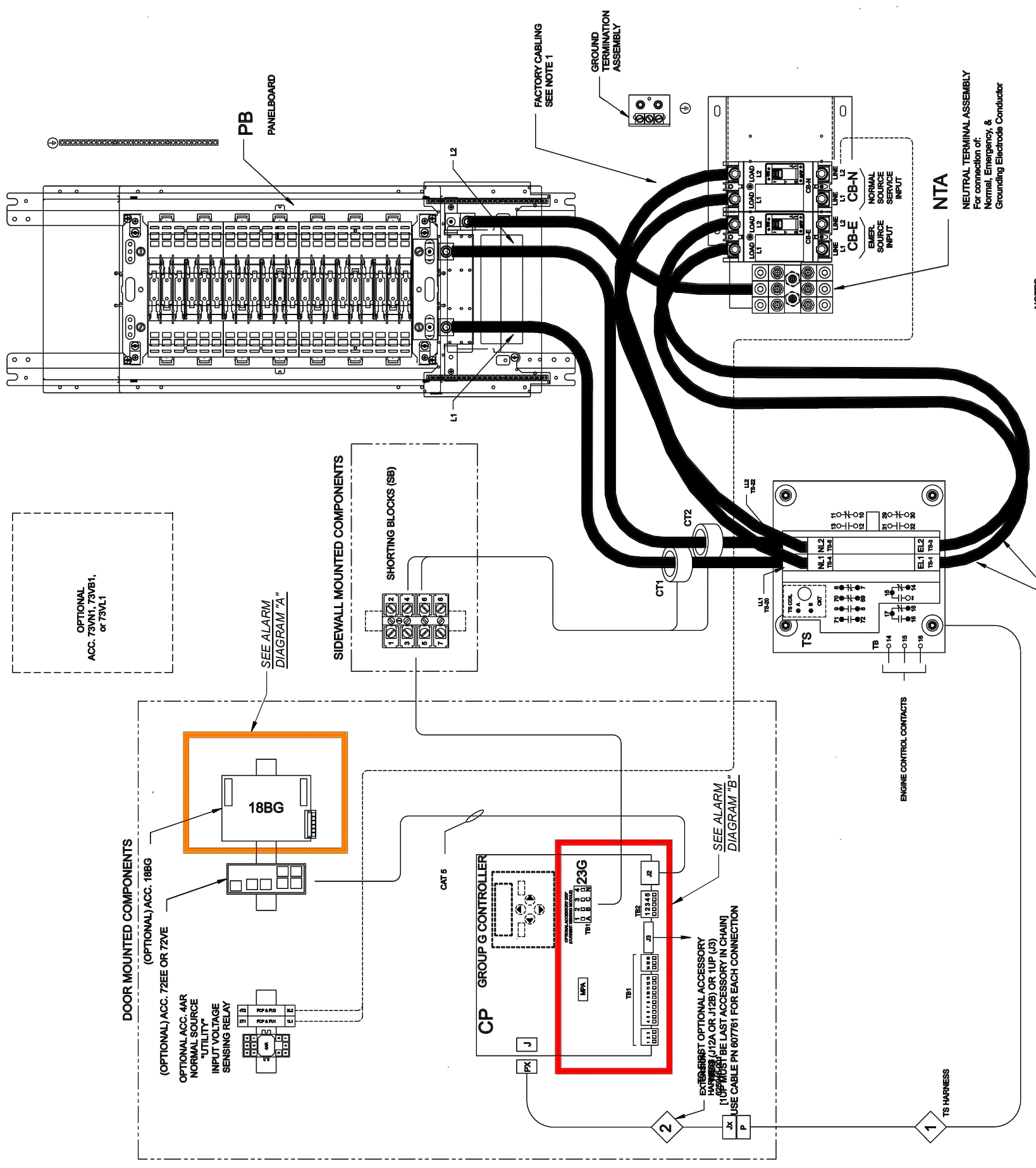
E-9



A
 E-9



B
 E-9



1
 E-9

1 2 3 4 5

Scope and test fibers.
Install fibers

Label each end of fibers per label template. Labels should be the same on each end of fiber. Labels should be installed 3-4 inches from end of fiber.

Route fibers out the backside of fiber tray. Separate fibers into Alpha, Beta, and Gamma. Route fibers out of fiber tray as shown.

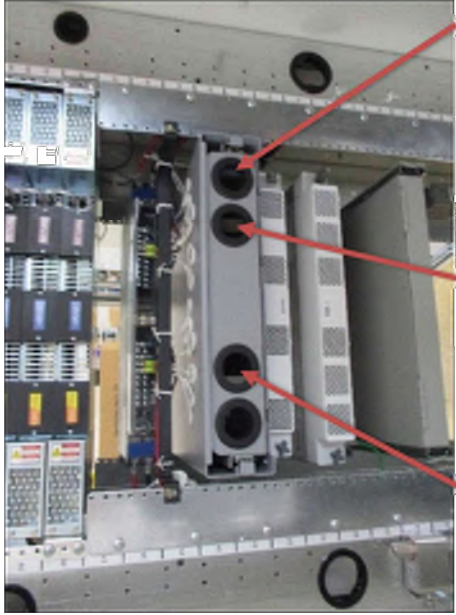
Route fibers **UNDER** the 6630/6648 Shelf #1 to front side of the cabinet

Note: Only install/label Module #4 if fibers are provided.

Note: Only install Aqua fibers if instructed by a supervisor. Otherwise ship loose

Label Template

Updated template					
6449 ALPHA	6449 BETA	6449 GAMMA	6449 ALPHA	6449 BETA	6449 GAMMA
6449 ALPHA LINK 1	6449 ALPHA LINK 2	6449 BETA LINK 1	6449 BETA LINK 2	6449 GAMMA LINK 1	6449 GAMMA LINK 2
6408 ALPHA	6408 BETA	6408 GAMMA			



Gamma fibers

Beta fibers

Alpha fibers

Aqua Fibers if installed- label each end the same

Fiber 1

Fiber 2

Fiber 3

FIBER ROUTING DETAIL

1
E-10

SCALE: N.T.S.

Alarm wiring for Cabinet
Remove old alarm block and install new panel DRP4722SW

Route wiring from RMX4000 to alarm panel. Wiring will be various colors or all blue as shown

If connector is connected to old alarm block, remove connector and wire to alarm panel

Note: See wiring table on next page

Place alarm block label template on door

Jumper Office Alarm cable wires.

Connector J4

position 16

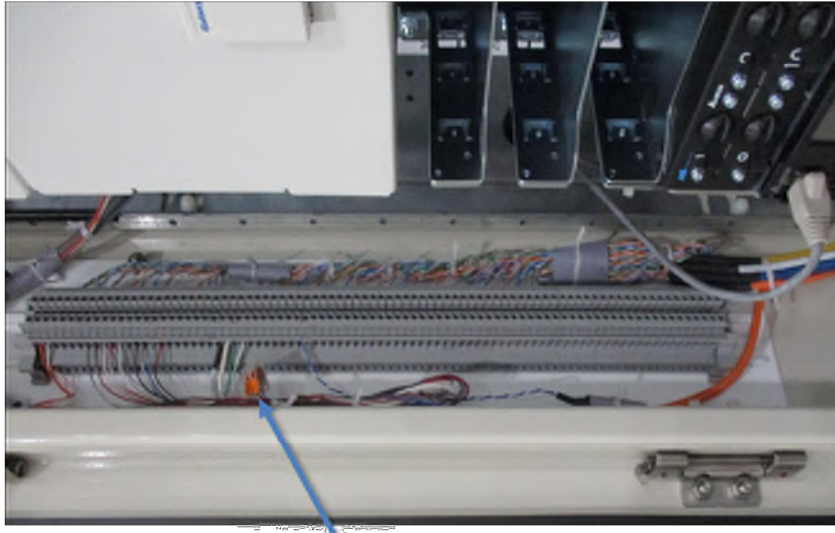
(Blue/Red) and

position 10

(Black/red)



provide
visual



ALARM WIRING CONNECTIONS

2
E-10

SCALE: N.T.S.

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REFERENCE ONLY
ELECTRICAL SEAL

KIRKSEY
FIRE STATION DR
KIRKSEY, KY 42054
ALARM AND FIBER
CABLE ROUTING
(REFERENCE ONLY)

ISSUED FOR:	
REVIEW	---
PERMIT	---
CONSTRUCTION	---
RECORD	---

DESIGNER	
PROJECT MANAGER	---
TYP	SEK

JOB NO
2019737.57

E-10

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STATE OF KENTUCKY
PROFESSIONAL ENGINEER
 STEVEN P. SCHAUB
 29008
 LICENSED PROFESSIONAL ENGINEER
 104712023

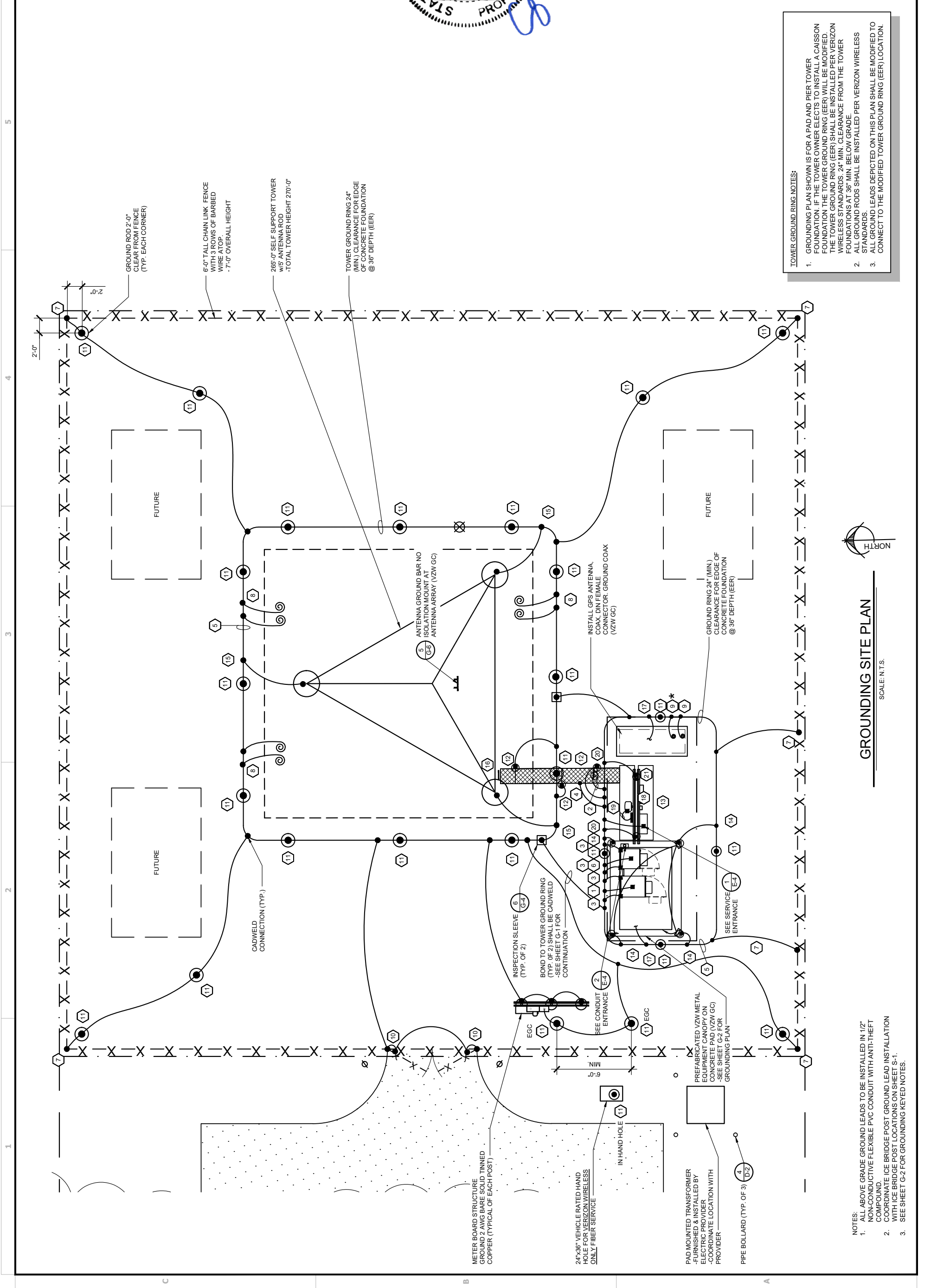
KIRKSEY
 FIRE STATION DR
 KIRKSEY, KY 42054
GROUNDING SITE PLAN

ISSUED FOR:	
REVIEW	---
PERMIT	---
CONSTRUCTION	---
RECORD	---

PROJECT MANAGER	DESIGNER
TPP	SEK

JOB NO
2019737.57

G-1



TOWER GROUND RING NOTES:

- GROUNDING PLAN SHOWN IS FOR A PAD AND PIER TOWER FOUNDATION. IF THE TOWER OWNER ELECTS TO INSTALL A CAISSON FOUNDATION THE TOWER GROUND RING (EER) WILL BE MODIFIED. THE TOWER GROUND RING (EER) SHALL BE INSTALLED PER VERIZON WIRELESS STANDARDS. 24" MIN. CLEARANCE FROM THE TOWER FOUNDATIONS AT 36" MIN. BELOW GRADE.
- ALL GROUND RODS SHALL BE INSTALLED PER VERIZON WIRELESS STANDARDS.
- ALL GROUND LEADS DEPICTED ON THIS PLAN SHALL BE MODIFIED TO CONNECT TO THE MODIFIED TOWER GROUND RING (EER) LOCATION.



GROUNDING SITE PLAN

SCALE: N.T.S.

- NOTES:
- ALL ABOVE GRADE GROUND LEADS TO BE INSTALLED IN 1/2" NON-CONDUCTIVE FLEXIBLE PVC CONDUIT WITH ANTI-THEFT COMPOUND.
 - COORDINATE ICE BRIDGE POST GROUND LEAD INSTALLATION WITH ICE BRIDGE POST LOCATIONS ON SHEET S-1.
 - SEE SHEET G-2 FOR GROUNDING KEYED NOTES.

GPD GROUP, INC.
 520 South Main Street, Suite 2531
 Akron, OH 44311
 330.572.2100 Fax 330.572.2101

Southern Towers
 250 SIGNAL MOUNTAIN ROAD, SUITE B
 CHATTANOOGA, TN 37405

REV. DATA	DESCRIPTION
A	ISSUED FOR 90% REVIEW
B	UPDATED PER NEW MIK TEMPLATE
0	FINAL CDS
1	UPDATED ADJOINERS MAP

STATE OF OHIO
PROFESSIONAL ENGINEER
 STEVEN P. SCHAUB
 29008
 LICENSED PROFESSIONAL ENGINEER
 10/17/2023

KIRKSEY
 FIRE STATION DR
 KIRKSEY, KY 42054

GROUNDING NOTES

ISSUED FOR:	REVIEW	PERMIT	CONSTRUCTION	RECORD
	---	---	---	---

PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO. 2019737.57

G-2

TOWER OWNER GROUNDING KEYED NOTES


- 1 BBG: FURN. & INST. 1-2 AWG INSULATED STRANDED COPPER GND. WIRE FOR BATTERY BAY GROUND (BBG) TO (EER). COIL UP 6' ABOVE GRADE. CONNECTION TO (EER) SHALL BE CADWELD.
- 2 CEPSG: FURN. & INST. 1-2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR CEPSG POST TO (EER). COIL UP 6' ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD.
- 3 CG: FURN. & INST. 2-2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR CABINET GROUND (CG) TO (EER). COIL UP 6' ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD.
- 4 CSG: FURN. & INST. 1-2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR ICE BRIDGE CHANNEL. TO (EER). COIL UP 15' ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD.
- 5 EER: FURN. & INST. 2 AWG BARE SOLID TINNED COPPER BURIED EXTERIOR ELECTRODE GROUND RING (EER) AROUND RADIO EQUIPMENT PAD AND TOWER BURIED AT 36" OR 6' BELOW FROST LINE (WHICHEVER IS GREATER). MAINTAIN 24" FROM EQUIPMENT PAD AND TOWER FOUNDATIONS MINIMUM.
- 6 FEG: FURN. & INST. 1-2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR FIBER ENTRANCE GROUND (FEG) TO (T6E). COIL UP 10' ABOVE GRADE. CONNECTION TO (EER) SHALL BE CADWELD.
- 7 FG: FURN. & INST. 1-2 AWG BARE SOLID TINNED COPPER GND. WIRE FROM NEW FENCING TO GROUND RING (EER). CONNECTION TO FENCING SHALL BE AT THE BASE OF FENCE POST USING CADWELD AND WEAVE GND. WIRE THRU FABRIC AND ATTACH TO TOP RAIL WITH CADWELD. CONNECTION TO (EER) SHALL BE CADWELD.
- 8 FTWGL: FURN. & INST. FUTURE TOWER WAVEGUIDE GROUND BAR LEADS. CONTRACTOR SHALL COIL UP TEN (10') OF 2 AWG SOLID TINNED COPPER GROUND (TYP.)
- 9 GEG: FURN. & INST. 1-2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR THE GENERATOR ENCLOSURE TO (EER). COIL UP 6' ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD. GENERATOR SERVICE GROUND WHERE REQUIRED BY JURISDICTION HAVING AUTHORITY
- 10 GG: FURN. & INST. 1-2 AWG BARE SOLID TINNED COPPER GND. WIRE AT EACH GATE POST AND PROVIDE GROUND WIRE TO BONDING JUMPER FROM GATE POST TO FENCE POST.
- 11 GRE: FURN. & INST. GROUND RODS TO 36" BELOW FINISH GRADE (OR 6' BELOW FROST LINE, WHICHEVER IS GREATER) AT A MINIMUM SPACING OF 10' @ 40' AT RADIO EQUIPMENT PAD, TOWER AND SITE EXTERIOR GROUND SYSTEM. CONNECTION TO (EER) SHALL BE CADWELD. REFER TO DETAIL 5 ON SHEET G-4.
- 12 IBSG: FURN. & INST. 1-2 AWG BARE SOLID TINNED COPPER GND. WIRE FROM ICE BRIDGE SUPPORT POST TO (EER). COIL UP 6' ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD. SEE SHEET S-1 FOR ICE BRIDGE POST LOCATIONS.
- 13 PEG: FURN. & INST. 1-2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR THE 'ILC' GROUND BAR TO (EER). COIL UP 6' ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD.
- 14 PCSG: FURN. & INST. 1-2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR THE PAD CANOPY SUPPORT BASE TO (EER). COIL UP 6' ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD.
- 15 TBG: FURN. & INST. 1-2 AWG BARE SOLID TINNED COPPER GND. WIRE FROM TOWER LEG BASE PLATE TO (EER). CONNECTION TO TOWER LEG BASE PLATE SHALL BE CADWELD OR MECHANICAL TO LEG AND (EER) SHALL BE CADWELD.
- 16 TZW E.C. BY VZW E.C.
- 17 UG: FURN. & INST. 1-2 AWG BARE SOLID TINNED COPPER GND. WIRE (UFER GROUND) FOR PAD FOUNDATION REINFORCEMENT STEEL CONNECTION TO (EER) SHALL BE CADWELD. PROVIDE HEAT SHRINK TUBING OR ELECTRICAL TAPE PROTECTION FOR CONDUCTOR AT TRANSITION BETWEEN CONCRETE AND SOIL.
- 18 OGA: BY VZW E.C.
- 19 OGL: BY VZW E.C.
- 20 OHG: FURN. & INST. 2-2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR THE 'OVP' H-FRAME TO (EER). COIL UP 6' ABOVE GRADE (TYP. OF 2). CONNECTION (EER) SHALL BE CADWELD.
- 21 GPSG: BY VZW E.C.

TOWER OWNER GROUNDING NOTES

1. ALL UNDERGROUND CONNECTIONS ON THE LIGHTNING PROTECTION SYSTEM SHALL BE EXOTHERMIC WELDED USING THE CADWELD PROCESS. THE TOWER OWNER E.C. SHALL FURN. & INST. ALL THESE CONNECTIONS, INCLUDING WELD METALS, MOLDS AND TOOLS. THE TOWER OWNER E.C. SHALL FURN. & INST. 5/8" x 10' COPPER CLAD STEEL COPPER JACKET 0.0012" MIN.) GROUND RODS, DRIVEN VERTICAL TO 36" BELOW FIN. GRADE (OR 6' BELOW FROSTLINE, WHICHEVER IS GREATER) @ 10'-0" O.C. MINIMUM.
2. THE TOWER OWNER E.C. SHALL FURN. & INST. 2 AWG BARE SOLID TINNED COPPER GND. WIRE AT A DEPTH OF 36" BELOW FIN. GRADE FOR THE EQUIPMENT PAD (EER) AND ICE BRIDGE (CSG).
3. ALL EXTERIOR GND. CONNECTIONS SHALL BE EXOTHERMIC CADWELD (U.N.O.)
4. UPON COMPLETION OF THE EQUIPMENT PAD GROUNDING RING AND BEFORE BONDING TO THE TOWER GROUND RING, THE TOWER OWNER E.C. SHALL MEGGER TEST THIS GROUNDING FIELD. THE REQUIRED RESISTANCE LEVEL IS 5 OHMS OR LESS. THE TOWER OWNER E.C. SHALL NOTIFY THE ENGINEER IF THESE REQUIREMENTS ARE NOT ACHIEVED. THE TOWER OWNER E.C. SHALL SUBMIT PRICING TO TOWER OWNER FOR THE INSTALLATION OF ADDITIONAL GROUND RODS REQUIRED FOR PROPER RESISTANCE. UPON APPROVAL FROM TOWER OWNER, THE TOWER OWNER E.C. SHALL INSTALL ADDITIONAL GROUND RODS AS REQUIRED. AFTER PASSING TEST, THE TOWER OWNER E.C. SHALL BOND THE EQUIPMENT PAD RING TO THE TOWER RING. THE TOWER OWNER E.C. SHALL NOTIFY VERIZON WIRELESS CONSTRUCTION MANAGER AND TOWER OWNER CONSTRUCTION MANAGER 48 HOURS PRIOR TO BACKFILLING TRENCHES, POURING CONCRETE FOR FOUNDATIONS, TO INSPECT BONDS AND INSPECT ANY/ALL BREAKS AND REPAIRS TO THE GROUND RING.
5. GROUND SYSTEM SHALL BE VISUALLY INSPECTED BY A TOWER OWNER AND VERIZON WIRELESS CONSTRUCTION ENGINEER BEFORE BACKFILLING IF REQUESTED.
6. NO SHARP 90° BENDS SHALL BE USED. A LONG SWINGING RADIUS BEND REQUIRED.
7. ALL EQUIPMENT PAD AND EQUIPMENT GROUNDING SHALL BE IN ACCORDANCE WITH VERIZON WIRELESS SPECIFICATIONS.
8. ALL ABOVE GROUND BARE COPPER CONDUCTORS BELOW 10' ABOVE GRADE SHALL BE INSTALLED IN FLEXIBLE PVC CONDUIT. CONDUIT SHALL BE FILLED WITH THEFT DETERRENT COMPOUND (ELECTRIC MOTION COMPANY ANTI-THEFT COMPOUND EM-5107).
9. BARE COPPER CONDUCTORS SHALL NOT BE INSTALLED WHERE THEY MAY BE IN CONTACT WITH GALVANIZED METALS. THE CONDUCTORS SHALL BE INSULATED OR ENCLOSED IN PVC CONDUIT. PLASTIC SEALTIGHT OR INSTALLED WITH STANDOFF SUCH THAT NO CONTACT BETWEEN DISSIMILAR METALS MAY TAKE PLACE.
10. CONNECTION OF COPPER CONDUCTORS TO GALVANIZED METAL OR ALUMINUM SHALL BE AVOIDED. BRASS OR STAINLESS STEEL LUGS OR BARS SHALL BE USED FOR THESE CONNECTIONS.

LEGEND

BBG	BATTERY BAY GROUND
CEPSG	COAX ENTRY PROTECTION SYSTEM GROUND
CG	CABLE SUPPORT GROUND
CSG	CABLE SUPPORT GROUND
EER	BURIED EXTERIOR ELECTRODE GROUND RING
ECC	EQUIPMENT GROUNDING CONDUCTOR (NEC DESIGNATION)
FEG	FIBER ENTRANCE GROUND
FTWGL	FUTURE TOWER WAVEGUIDE GROUND LEAD
GEG	GROUNDING ELECTRODE CONDUCTOR (NEC DESIGNATION)
GEG	GENERATOR ENCLOSURE GROUND (NOT USED)
GES	GROUNDING ELECTRODE SYSTEM (NEC DESIGNATION)
GG	GATE GROUND
GPSG	GPS ANTENNA MOUNT GROUND
GRE	GROUND ROD ELECTRODE
IBSG	ICE BRIDGE SUPPORT GROUND
OGA	OVP GROUND ASSEMBLY
OGL	OVP GROUND LEAD
OHG	OVP H-FRAME SUPPORT GROUND
PEG	POWER ENTRANCE GROUND
PCSG	PAD CANOPY SUPPORT GROUND DOWN LEAD
TBG	TOWER BASE GROUND
TWGS	TOWER WAVEGUIDE GROUND ASSEMBLY
UG	UFER GROUND (PIER FOUNDATION)
	CABLE TO GND. ROD CADWELD CONNECTION
	TEST WELL
	INSPECTION PORT CABLE TO CABLE CADWELD CONNECTION




250 SIGNAL MOUNTAIN ROAD, SUITE B
CHATTANOOGA, TN 37405

REV	DATE	DESCRIPTION
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C	09/20/23	FINAL CDS
1	10/17/2023	UPDATED ADVISORS MAP

VERIZON WIRELESS
GROUNDING PLAN
AND NOTES

KIRKSEY
FIRE STATION DR
KIRKSEY, KY 42054

STEVEN P. SCHAUB
29008
REGISTERED PROFESSIONAL ENGINEER
STATE OF KENTUCKY
10/17/2023



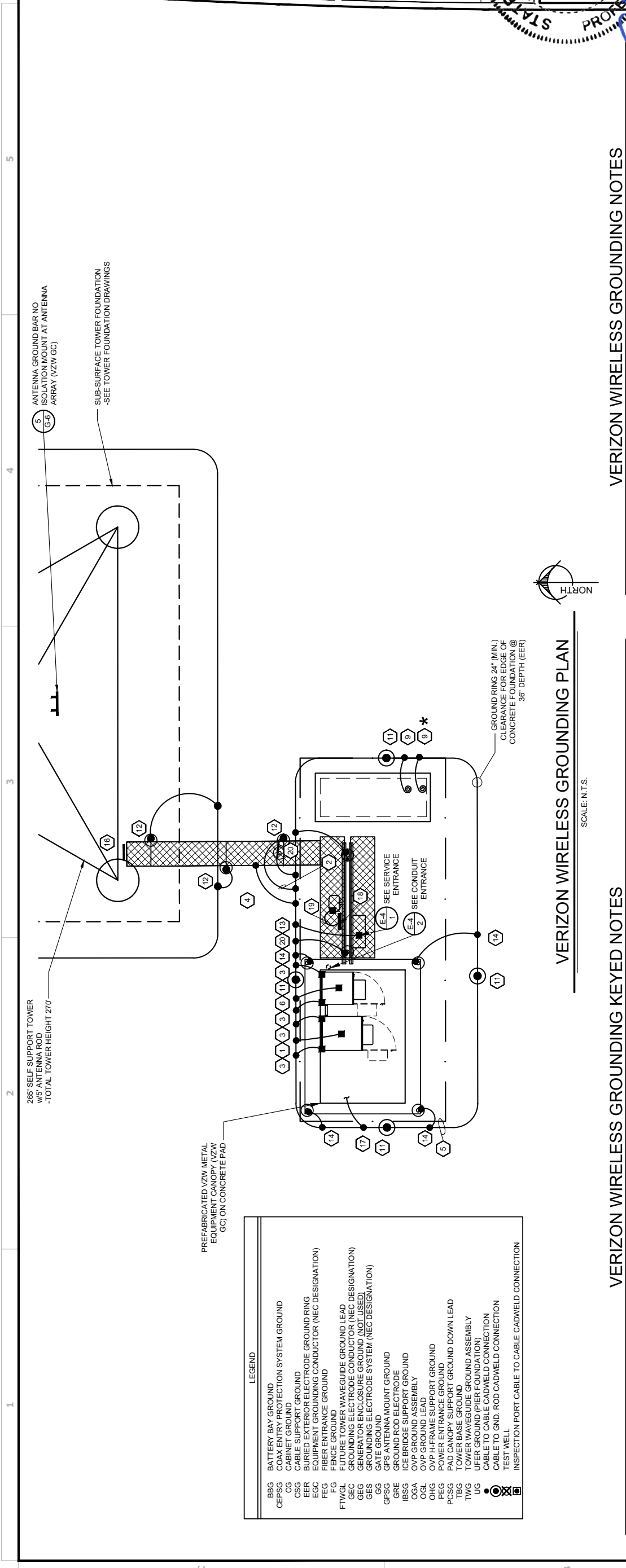
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

ISSUED FOR:	REVIEW	PERMIT	CONSTRUCTION	RECORD
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PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO.
2019737.57

G-3



- ### VERIZON WIRELESS GROUNDING NOTES
- ALL UNDERGROUND CONNECTIONS ON THE LIGHTNING PROTECTION SYSTEM SHALL BE EXOTHERMIC WELDED USING THE CADWELD PROCESS. THE VZW E.C. AND GENERAL CONTRACTOR E.C. SHALL FURNISH & INSTALL ALL THESE CONNECTIONS INCLUDING WELD METALS, MOLDS AND TOOLS. THE E.C. SHALL FURNISH & INST. 5/8" x 10' COPPER CLAD STEEL (COPPER JACKET 0.0012" MIN.) GROUND RODS, DRIVEN VERTICAL TO 36" BELOW FIN. GRADE (OR 6" BELOW FROSTLINE, WHICHEVER IS GREATER) @ 10'-0" O.C. MINIMUM.
 - THE VZW E.C. SHALL FURN. & INST. 2 AWG BARE SOLID TINNED COPPER GND. WIRE AT A DEPTH OF 36" BELOW FIN. GRADE FOR THE PAD (EER) AND ICE BRIDGE (CSG).
 - THE GENERAL CONTRACTOR E.C. SHALL FURN. & INST. 2 AWG BARE SOLID TINNED COPPER GND. WIRE AT A DEPTH OF 36" BELOW FIN. GRADE FOR THE TOWER (EER). FUTURE TOWER WAVEGUIDE GROUND LEADS (FTWGL), GATE GROUND (GG), FENCE (FG), TOWER BASE GROUND (TBG) AND TOWER WAVEGUIDE GROUND (TWG).
 - ALL EXTERIOR GND. CONNECTIONS SHALL BE EXOTHERMIC CADWELD (U.N.O.).
 - ALL CRIMP LUG CONNECTIONS TO ALL GROUND BARS SHALL BE LUBRICATED WITH A CORROSION INHIBITOR ("OXY-GREASE") OR APPROVED EQUAL.
 - UPON COMPLETION OF THE TOWER GROUNDING RING, THE GENERAL CONTRACTOR E.C. SHALL MEGGER TEST THE COMPOUND GROUNDING FIELD. THE REQUIRED RESISTANCE LEVEL IS 5 OHMS OR LESS. THE GENERAL CONTRACTOR E.C. SHALL NOTIFY THE ENGINEER IF THESE REQUIREMENTS ARE NOT ACHIEVED. THE GENERAL CONTRACTOR E.C. SHALL SUBMIT PRICING TO TOWER OWNER FOR THE INSTALLATION OF ADDITIONAL GROUND RODS REQUIRED FOR PROPER RESISTANCE. UPON APPROVAL FROM TOWER OWNER, THE GENERAL CONTRACTOR E.C. SHALL INSTALL ADDITIONAL GROUND RODS AS REQUIRED. AFTER PASSING TEST, THE GENERAL CONTRACTOR E.C. SHALL NOTIFY TOWER OWNER 48 HOURS PRIOR TO BACKFILLING TRENCHES, POURING CONCRETE FOR FOUNDATIONS, TO INSPECT BONDS AND INSPECT ANY/ALL BREAKS AND REPAIRS TO THE GROUND RING.
 - UPON COMPLETION OF THE RADIO EQUIPMENT PAD GROUNDING RING AND BEFORE BONDING TO THE TOWER GROUNDING RING, THE VZW E.C. SHALL MEGGER TEST THE PAD GROUNDING FIELD. THE REQUIRED RESISTANCE LEVEL IS 5 OHMS OR LESS. THE VZW E.C. SHALL NOTIFY THE ENGINEER IF THESE REQUIREMENTS ARE NOT ACHIEVED. THE GENERAL CONTRACTOR E.C. SHALL SUBMIT PRICING TO TOWER OWNER FOR THE INSTALLATION OF ADDITIONAL GROUND RODS REQUIRED FOR PROPER RESISTANCE. UPON APPROVAL FROM TOWER OWNER, THE VZW E.C. SHALL INSTALL ADDITIONAL GROUND RODS AS REQUIRED. AFTER PASSING TEST, THEN THE VZW E.C. SHALL BOND THE RADIO EQUIPMENT PAD GROUND RING TO THE TOWER GROUND RING. THE VZW E.C. SHALL NOTIFY VERIZON WIRELESS 48 HOURS PRIOR TO BACKFILLING TRENCHES, POURING CONCRETE FOR FOUNDATIONS, TO INSPECT BONDS AND INSPECT ANY/ALL BREAKS AND REPAIRS TO THE GROUND RING.
 - GROUND SYSTEM SHALL BE VISUALLY INSPECTED BY A TOWER OWNER AND VERIZON WIRELESS CONSTRUCTION ENGINEER BEFORE BACKFILLING IF REQUESTED.
 - GROUND ASSEMBLIES SHALL BE THEFT DETERRENT DESIGN AS MANUFACTURED BY ERICO INC. AND FURNISHED BY VERIZON WIRELESS. PROVIDE TWO (2) LUG HOLES PER VERIZON WIRELESS STANDARDS. UNLESS NOTED OTHERWISE.
 - ALL ABOVE GROUND BARE COPPER CONDUCTORS BELOW 10' ABOVE GRADE SHALL BE INSTALLED IN FLEXIBLE PVC CONDUIT. CONDUIT SHALL BE FILLED WITH THEFT DETERRENT COMPOUND (ELECTRIC MOTION COMPANY ANTI-THEFT COMPOUND EM-510).
 - BARE COPPER CONDUCTORS SHALL NOT BE INSTALLED WHERE THEY MAY BE IN CONTACT WITH GALVANIZED METALS. THE CONDUCTORS SHALL BE INSULATED OR ENCLOSED IN PVC CONDUIT, PLASTIC SEAL/TIGHT OR INSTALLED WITH STANDOFF SUCH THAT NO CONTACT BETWEEN DISSIMILAR METALS MAY TAKE PLACE.
 - CONNECTION OF COPPER CONDUCTORS TO GALVANIZED METAL OR ALUMINUM SHALL BE AVOIDED. BRASS OR STAINLESS STEEL LUGS OR BARS SHALL BE USED FOR THESE CONNECTIONS.
 - NO SHARP 90° BENDS SHALL BE USED. A LONG SWINGING RADIUS BEND REQUIRED.
 - ALL GROUNDING SHALL BE IN ACCORDANCE WITH VERIZON WIRELESS SPECIFICATIONS.

- ### VERIZON WIRELESS GROUNDING KEYED NOTES
- | | |
|---|--|
| <p>1 BBG: VZW E.C. SHALL CONNECT THE 1-2 AWG INSULATED STRANDED COPPER GND. WIRE COILED UP BY TOWER OWNER E.C. FOR THE BATTERY BAY GROUND (BBG). CONNECTION TO THE GROUND BAR IN THE BATTERY BAY SHALL BE MECHANICAL. ROUTE LEAD IN LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT W/ANTI-THEFT COMPOUND.</p> <p>2 CEPSSG: VZW E.C. SHALL FURNISH & INSTALL THE THEFT DETERRENT GROUND POST ASSEMBLY PART #TDSGAP14 FOR THE COAX ENTRY PROTECTION SYSTEM (AS MFGD. BY ERICO GROUNDING AND SUPPLIED BY VZW E.C.) TO THE POST. CONNECT THE 2 AWG BARE SOLID TINNED COPPER COILED UP BY TOWER OWNER E.C. TO THE POST. THE CONNECTION TO POST SHALL BE CADWELD. REFER TO THE GENERAL INSTALLATION GUIDE AS SUPPLIED WITH THEFT DETERRENT POST MOUNT GROUND ASSEMBLY. SEE DETAIL 1 ON SHEET G-5 FOR DETAILS.</p> <p>3 CG: VZW E.C. SHALL FURNISH & INSTALL TWO HOLE LONG BARREL LUGS ON EXISTING 2 AWG BARE TINNED COPPER LEADS. VZW E.C. SHALL FURNISH & INSTALL DRAGON TOOTH WASHERS AND #8 STAINLESS STEEL FASTENERS ON ALL EQUIPMENT CABINET EXTERIOR GROUND LOCATIONS (TYP. 2 PER CABINET). REMOVE ALL SURFACE PAINT AND USE ANTI-OXIDANT COMPOUND BETWEEN METAL AND WASHER. ALL LEADS SHALL BE DRESSED TO REDUCE TRIP HAZARDS. DETAIL 2 ON SHEET G-5 FOR DETAILS.</p> <p>4 CSG: VZW E.C. SHALL CONNECT THE 1-2 AWG BARE SOLID TINNED COPPER GND. WIRE COILED BY TOWER OWNER E.C. FOR THE ICE BRIDGE CHANNEL. CONNECTION TO ICE BRIDGE CHANNEL SHALL BE CADWELD.</p> <p>5 EER: BY TOWER OWNER E.C.</p> <p>6 FEG: VZW E.C. SHALL BRING THE 2 AWG BARE SOLID TINNED COPPER GND. WIRE COILED UP BY TOWER OWNER E.C. FOR (FIBER ENTRANCE GROUND) INTO THE POWER PLANT CABINET AND MAKE A MECHANICAL CONNECTION TO THE FIBER SERVICE GROUND POINT. ROUTE LEAD IN FLEXIBLE NONMETALLIC CONDUIT W/ANTI-THEFT COMPOUND.</p> <p>7 FG: BY TOWER OWNER E.C.</p> <p>8 FTWGL: VZW E.C. SHALL BRING THE 2 AWG BARE SOLID TINNED COPPER GND. WIRE COILED UP BY TOWER OWNER E.C. FOR THE ICE BRIDGE CHANNEL. CONNECTION TO ICE BRIDGE CHANNEL SHALL BE CADWELD.</p> <p>9 GEG: FURN. & INST. 1-2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR THE GENERATOR ENCLOSURE TO (EER). COIL UP 6' ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD. *GENERATOR SERVICE GROUND WHERE REQUIRED BY JURISDICTION HAVING AUTHORITY</p> | <p>10 GG: BY TOWER OWNER E.C.</p> <p>11 GRE: VZW E.C. SHALL FURN. & INST. THEFT DETERRENT GROUND ASSEMBLY KIT PART #TDSGAP14 FOR THE TOWER WAVEGUIDE GROUND (TWG) DIRECTLY TO THE TOWER (SEE SITE SPECIFIC GROUNDING PLAN OF DESIGN DRAWINGS).</p> <p>12 BBSG: BY TOWER OWNER E.C.</p> <p>13 PEG: VZW E.C. SHALL CONNECT THE 1-2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR THE POWER ENTRANCE GROUND (PEG) COILED UP BY TOWER OWNER E.C. CONNECTION OF THE COILED WIRE TO THE INTEGRATED LOAD CENTER GROUND BAR SHALL BE MECHANICAL. ROUTE LEAD IN FLEXIBLE NONMETALLIC CONDUIT W/ANTI-THEFT COMPOUND.</p> <p>14 PCSG: VZW E.C. SHALL CONNECT SOLID TINNED COPPER ONE HOLE MECHANICAL CONNECTION OF GROUND WIRE BY TOWER OWNER E.C. WITH AN EXOTHERMIC CONNECTION. THE CONNECTION OF THE COILED GROUND WIRE AND LUG TO THE CANOPY SUPPORT BASE SHALL BE MECHANICAL. ROUTE LEAD IN FLEXIBLE NONMETALLIC CONDUIT W/ANTI-THEFT COMPOUND.</p> <p>15 TBG: BY TOWER OWNER E.C.</p> <p>16 TWG: VZW E.C. SHALL FURN. & INST. THEFT DETERRENT GROUND ASSEMBLY KIT PART #TDSGAP14 FOR THE TOWER WAVEGUIDE GROUND (TWG) DIRECTLY TO THE TOWER (SEE SITE SPECIFIC GROUNDING PLAN OF DESIGN DRAWINGS).</p> <p>17 UG: BY TOWER OWNER E.C.</p> <p>18 OGA: VZW E.C. SHALL BRING THE 2 AWG BARE SOLID TINNED COPPER GND. WIRE COILED UP BY TOWER OWNER E.C. FOR (FIBER ENTRANCE GROUND) INTO THE POWER PLANT CABINET AND MAKE A MECHANICAL CONNECTION TO THE FIBER SERVICE GROUND POINT. ROUTE LEAD IN FLEXIBLE NONMETALLIC CONDUIT W/ANTI-THEFT COMPOUND.</p> <p>19 OGL: BY TOWER OWNER E.C.</p> <p>20 OHG: VZW E.C. SHALL CONNECT THE 2-2 AWG BARE SOLID TINNED COPPER GND. WIRE COILED UP BY TOWER OWNER E.C. FOR OVP H-FRAME SUPPORT POST (TYP. OF 3). CONNECTION TO POST SHALL BE CADWELD.</p> <p>21 GPSSG: VZW E.C. SHALL FURN. & INST. 1-2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR GPS ANTENNA MOUNT PIPE TO H-FRAME SUPPORT POST (TYP. OF 2). CONNECTION TO PIPE AND POST SHALL BE CADWELD.</p> |
|---|--|



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 330.572.2100 Fax 330.572.2101



250 SIGNAL MOUNTAIN ROAD, SUITE B
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REV	DATE	DESCRIPTION
A	08/15/23	ISSUED FOR 90% REVIEW
B	08/15/23	UPDATED PER NEW MIK TEMPLATE
0	09/27/23	FINAL CDS
1	10/17/23	UPDATED ADVISORS MAP

STATE OF KENTUCKY
 PROFESSIONAL ENGINEER
 STEVEN P. SCHAUB
 29008
 10/17/2023

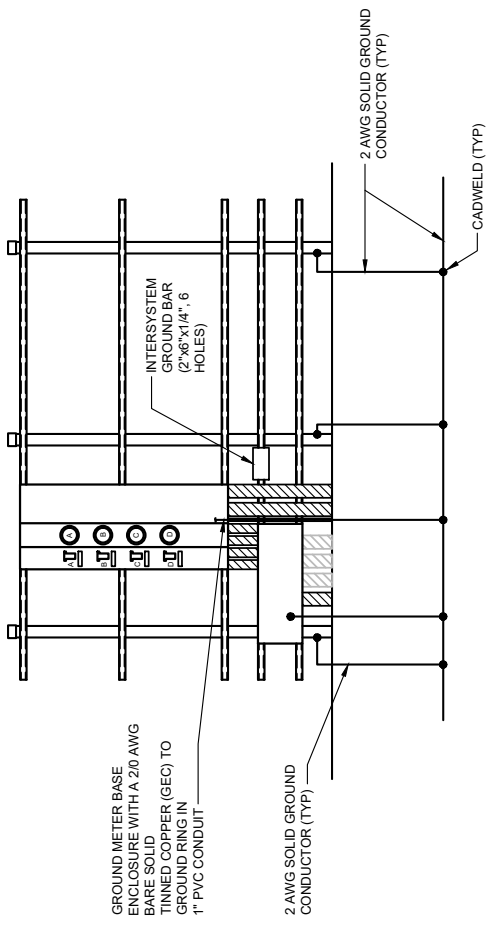
KIRKSEY
 FIRE STATION DR
 KIRKSEY, KY 42054
 GROUNDING DETAILS

ISSUED FOR:	REVIEW	PERMIT	CONSTRUCTION	RECORD
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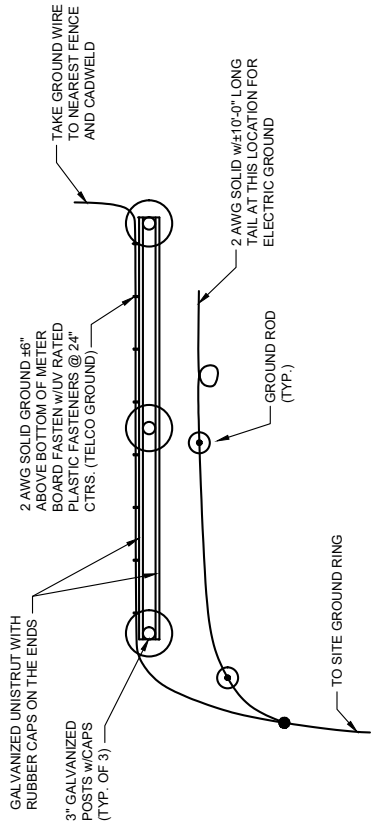
PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO.
 2019737.57

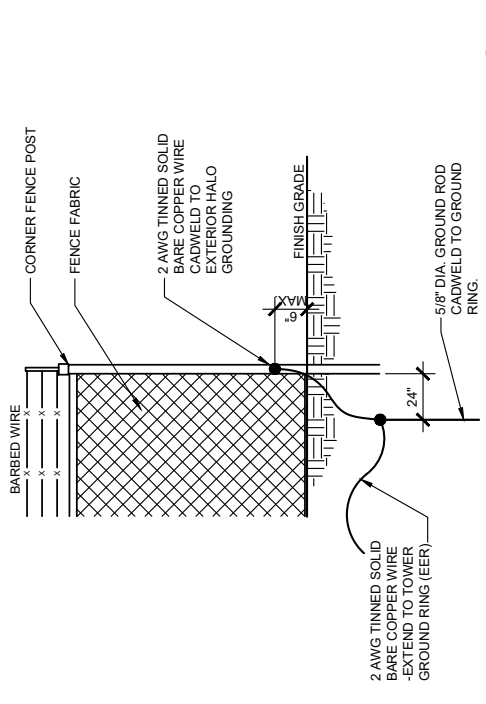
G-4



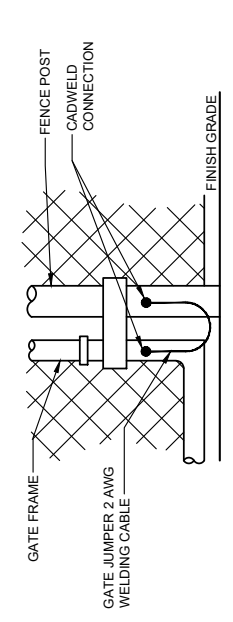
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 G-4
METER BOARD STRUCTURE GROUNDING
 SCALE: 1/4" = 1'-0"



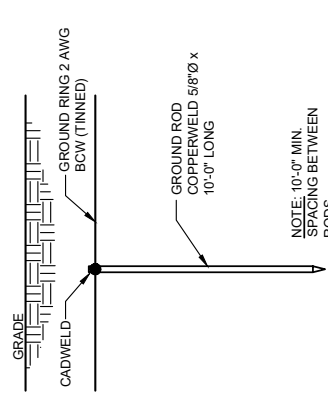
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 G-4
METER BOARD STRUCTURE GROUND PLAN
 SCALE: N.T.S.



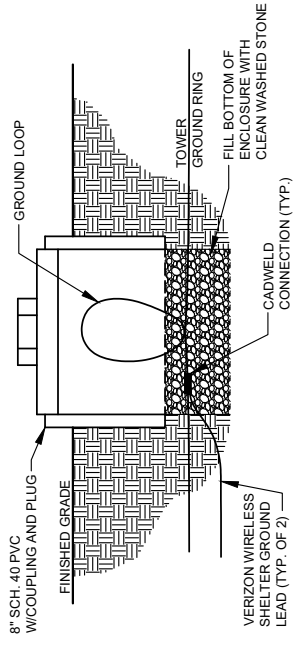
3
 G-4
FENCE GROUNDING DETAIL
 SCALE: N.T.S.



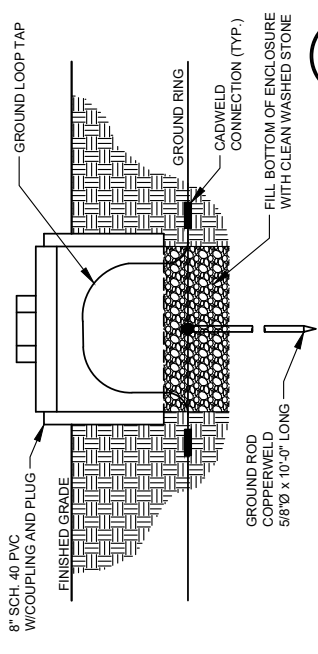
4
 G-4
GATE GROUNDING DETAIL
 SCALE: N.T.S.



5
 G-4
GROUND ROD DETAIL
 SCALE: N.T.S.
 (TYP. FOR CONTRACTOR AND VZW GC)



6
 G-4
INSPECTION SLEEVE DETAIL
 SCALE: N.T.S.



7
 G-4
GROUND TEST WELL DETAIL
 SCALE: N.T.S.

1 2 3 4 5

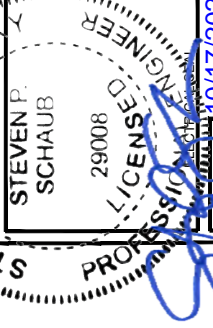


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260 SIGNAL MOUNTAIN ROAD, SUITE B
CHATTANOOGA, TN 37405

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0	09/27/23	FINAL CDS
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KIRKSEY
FIRE STATION DR
KIRKSEY, KY 42054

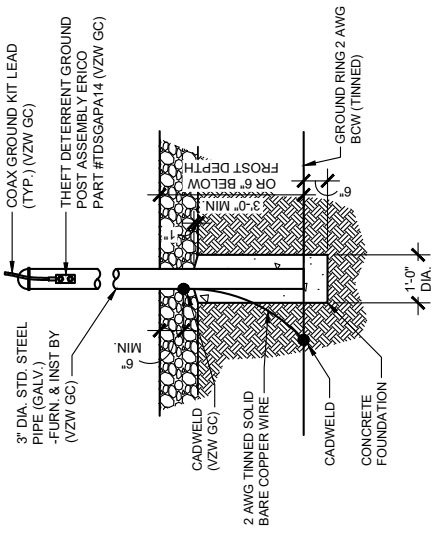
GROUNDING DETAILS

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CONSTRUCTION	---
RECORD	---

PROJECT MANAGER		DESIGNER	
TTP	---	SEK	---

JOB NO.
2019737.57

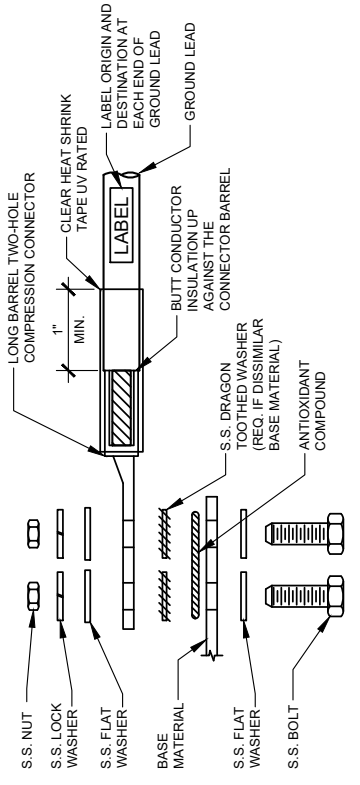
G-5



**THEFT DETERRENT POST MOUNT
GROUND DETAIL (CEPSG)**

1
G-5

SCALE: N.T.S.
(BY VZW GC)

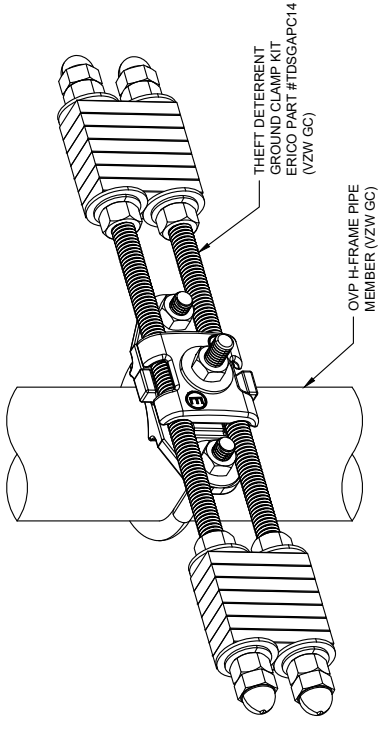


1. ALL HARDWARE SHALL BE 18-8 STAINLESS STEEL.
2. CHOOSE BOLT LENGTH TO ALLOW EXPOSURE OF AT LEAST TWO THREADS.
3. BACK TO BACK LUG CONNECTIONS ARE ACCEPTABLE WHEN BONDED TO A GROUND BAR OR STEEL OBJECT.
4. AT CONNECTIONS MADE TO STEEL OR ANY OTHER DISSIMILAR METALS, A DRAGON TOOTH WASHER SHALL BE USED BETWEEN THE CONNECTOR AND METAL.
5. IF NO DRAGON TOOTH WASHER IS USED, THOROUGHLY REMOVE A SECTION OF THE COATING APPROXIMATELY THE SIZE OF THE CONNECTOR WITH AN ABRASIVE STYLE TOOL.
6. NO-OX-ID ANTI-OXIDATION COMPOUND (SANCHEM) SHALL BE USED AT ALL COPPER TO COPPER CONNECTIONS.
7. A ZINC BASED (GRAY COLORED) ANTI-OXIDATION COMPOUND SHALL BE USED AT ALL COPPER TO STEEL CONNECTIONS.
8. PENTROX OR EQUAL ANTI-OXIDATION COMPOUND SHALL BE USED AT ALL COPPER TO ALUMINUM CONNECTIONS.

GROUND LUG INSTALLATION DETAIL

2
G-5

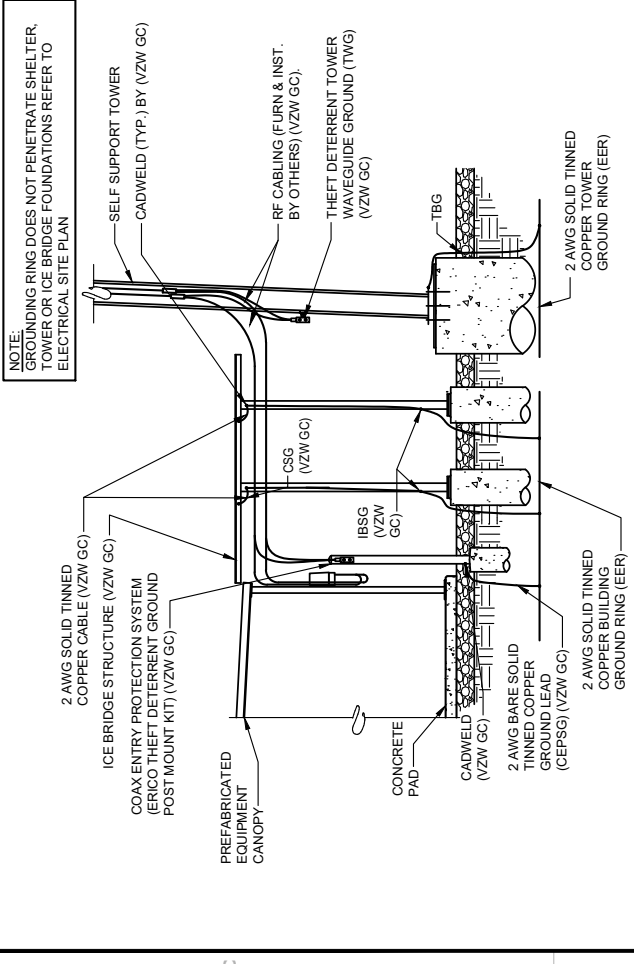
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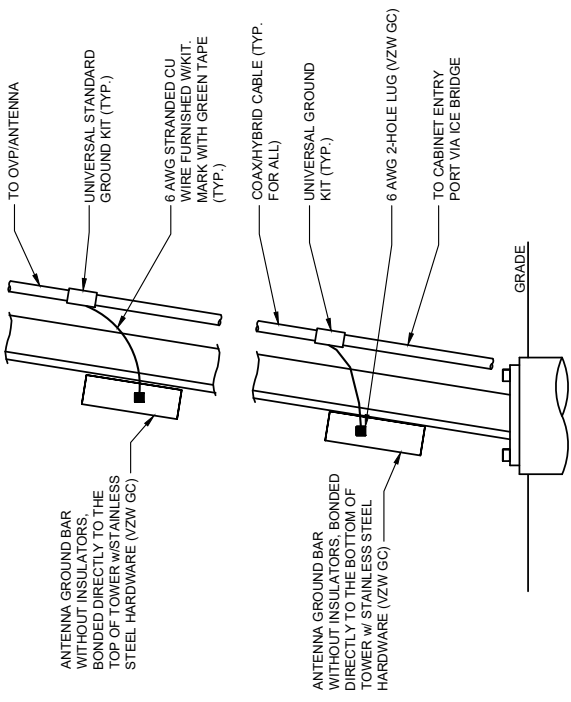
OVP GROUND ASSEMBLY (OGA)

3
G-5

SCALE: N.T.S.
(BY VZW GC)

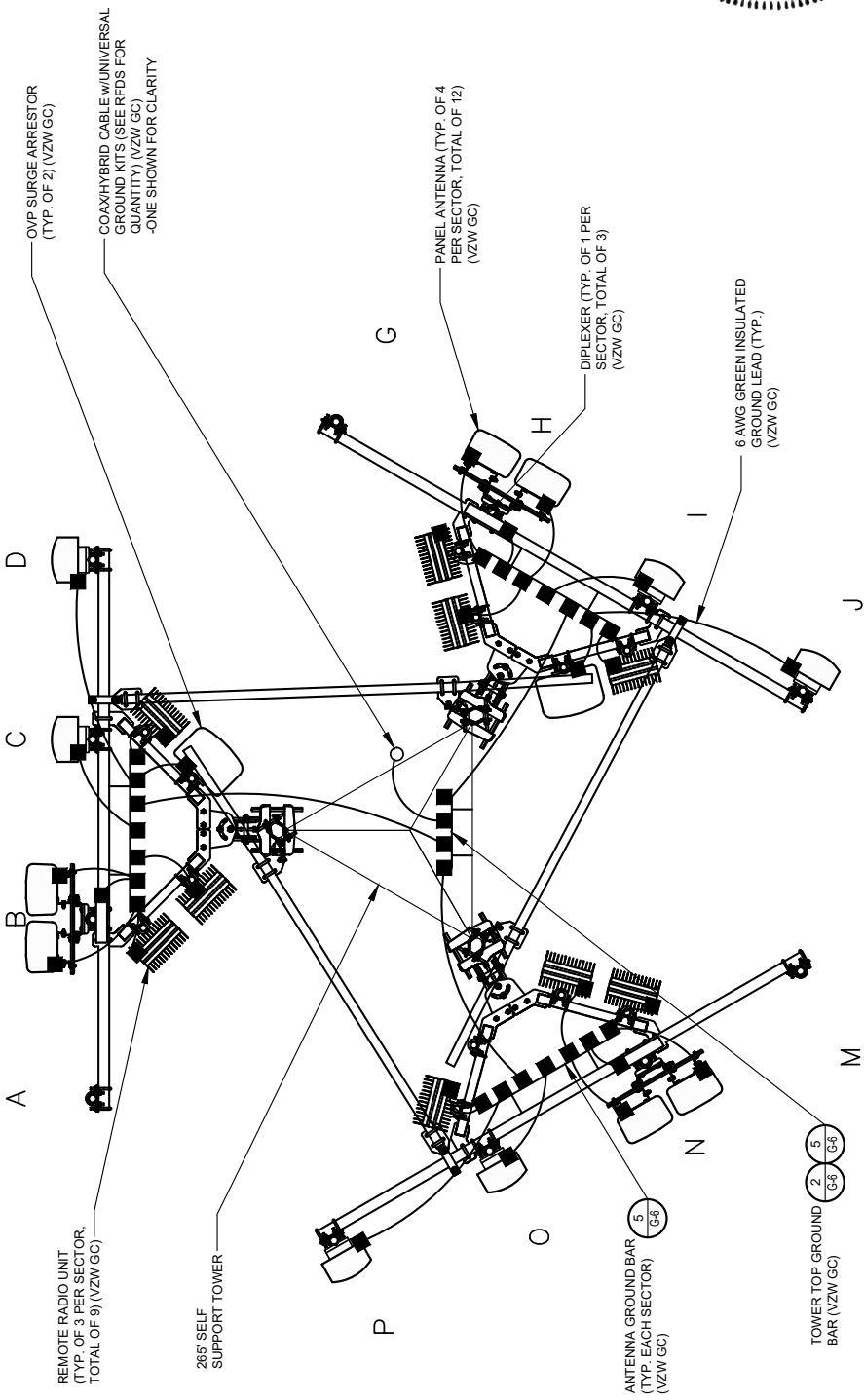


1
G-6
 INTERIOR/EXTERIOR GROUNDING DETAIL
 SCALE: N.T.S.

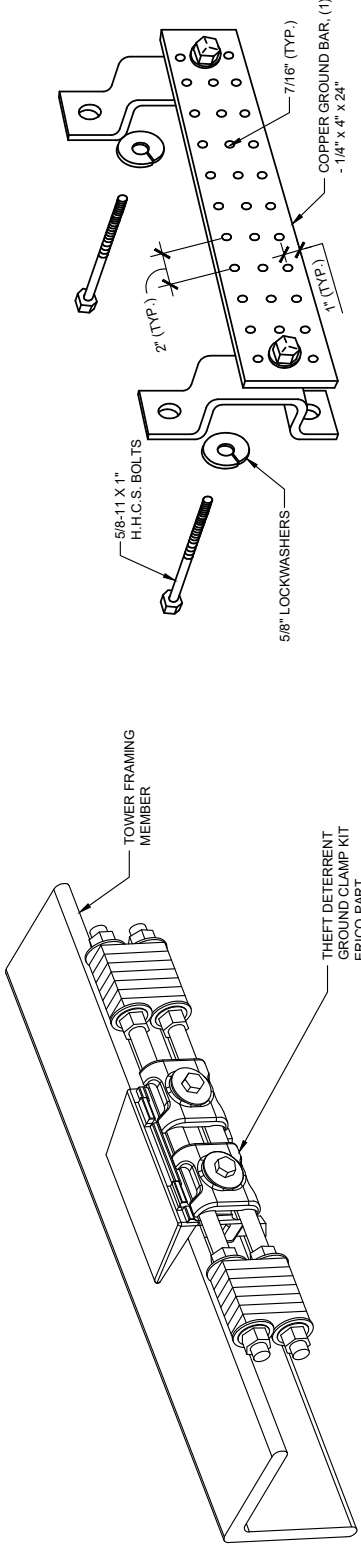


NOTE:
 1. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED (VZW GC)
 2. INSTALL UNIVERSAL GROUND KITS AT ALL GROUND BAR LOCATIONS. (VZW GC)

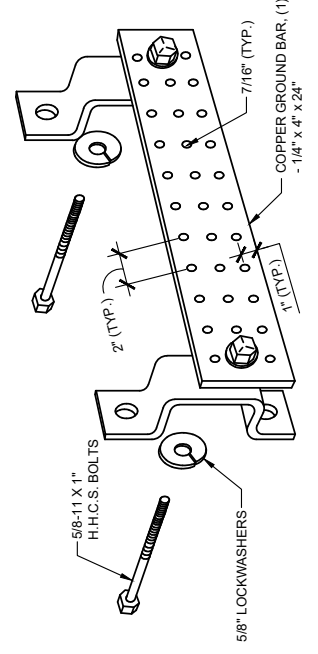
2
G-6
 ANTENNA CABLE GROUNDING INSTALLATION DETAIL
 SCALE: N.T.S.



3
G-6
 ANTENNA LEVEL GROUNDING PLAN
 SCALE: N.T.S.



4
G-6
 TOWER BOTTOM GROUND ASSEMBLY
 SCALE: N.T.S. (BY VZW GC)



5
G-6
 ANTENNA & TOWER TOP GROUND BAR
 SCALE: N.T.S. (BY VZW GC)

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STATE OF KENTUCKY
 PROFESSIONAL ENGINEER
 LICENSED
 29008
 STEVEN P. SCHAUB
 10/17/2023

KIRKSEY
 FIRE STATION DR
 KIRKSEY, KY 42054
 GROUNDING DETAILS

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PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO.
 2019737.57

G-6

GPD GROUP, INC.
 520 South Main Street, Suite 2531
 Akron, OH 44311
 330.572.2100 Fax 330.572.2101

Southern Towers
 250 SIGNAL MOUNTAIN ROAD, SUITE B
 CHATTANOOGA, TN 37405

REV.	DATE	DESCRIPTION
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B	08/15/23	UPDATED PER NEW MIK TEMPLATE
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REFERENCE ONLY

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KIRKSEY, KY 42054

ANTENNA PLAN
AND DETAILS
(REFERENCE ONLY)

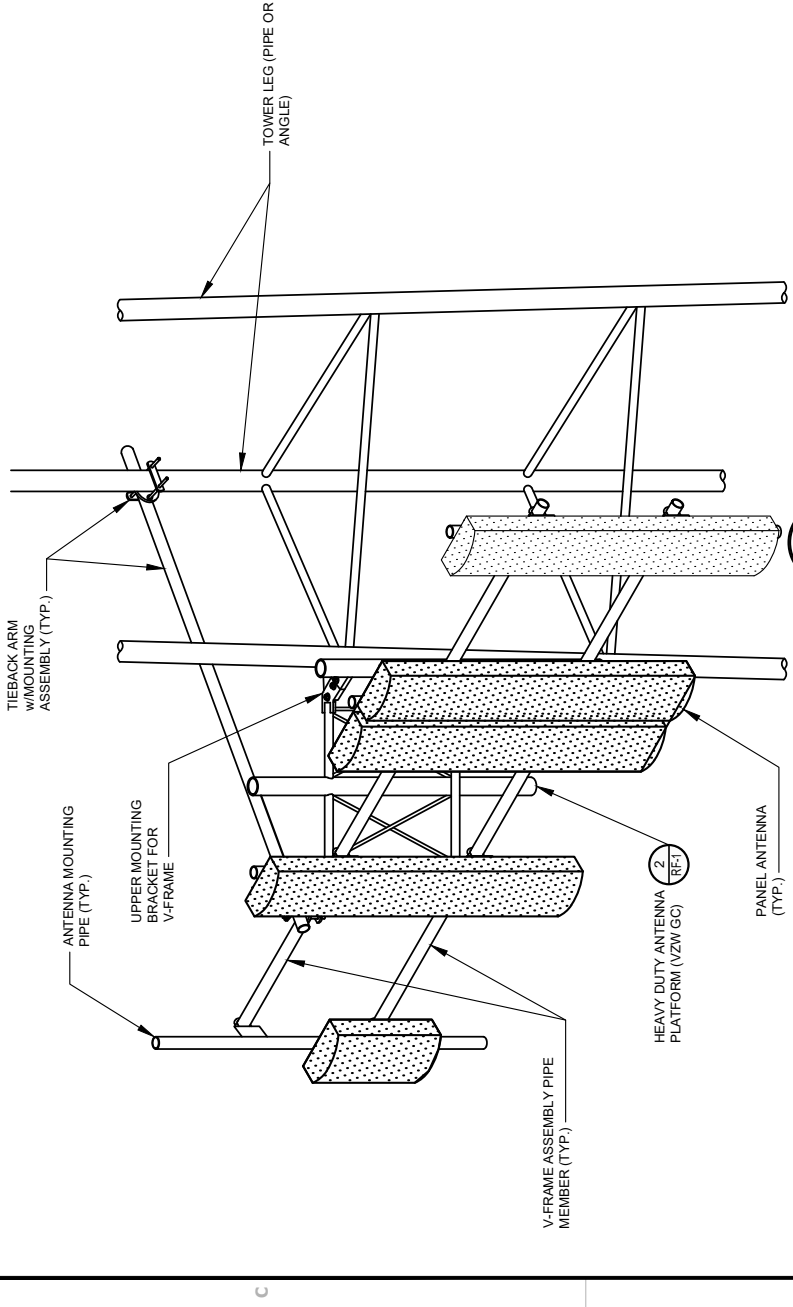
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REVIEW	---
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CONSTRUCTION	---
RECORD	---

PROJECT MANAGER	DESIGNER
TTP	SEK

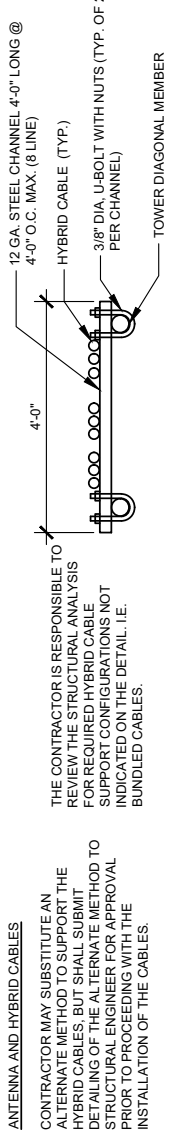
JOB NO.
2019737.57

RF-1

1 2 3 4 5



1
RF-1
ANTENNA MOUNT
SCALE: N.T.S.
(BY VZW GC)

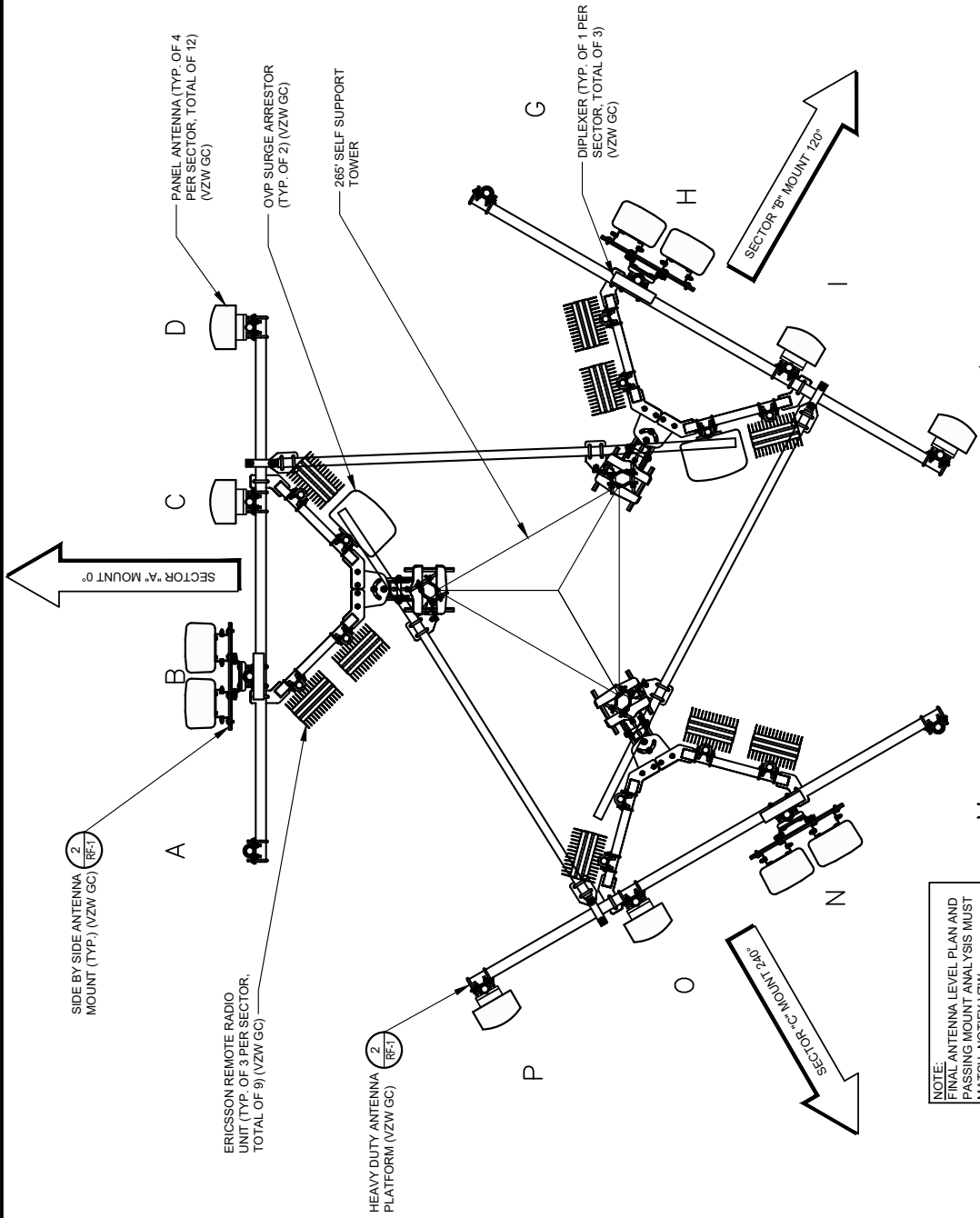


HYBRID CABLE SUPPORT DETAIL

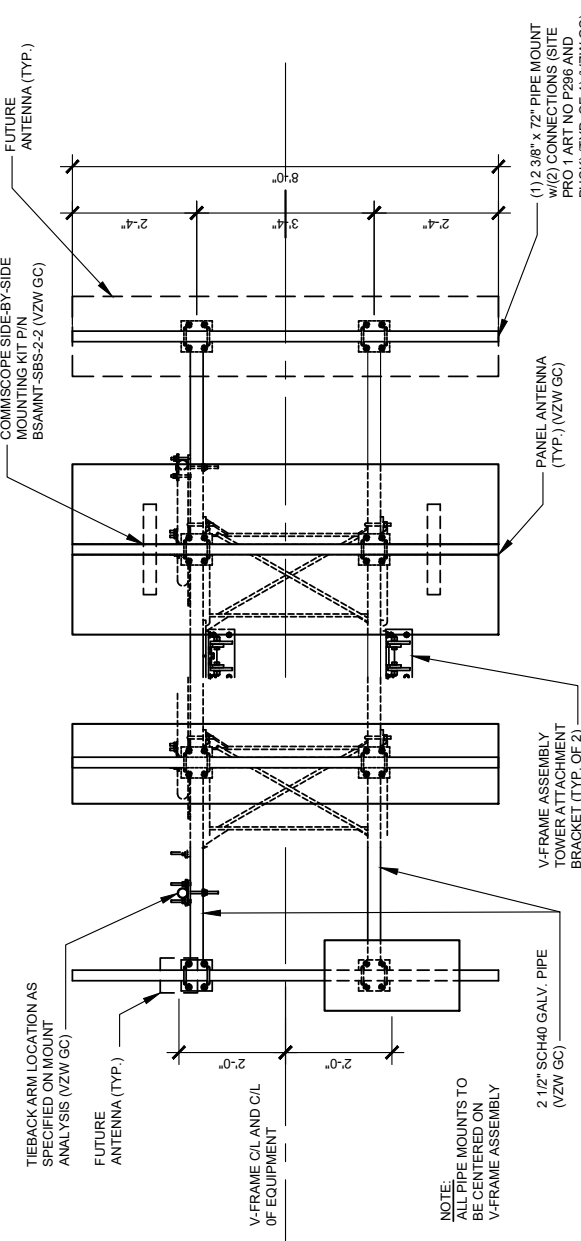
GENERAL NOTES:

- VERIFY EACH HYBRID CABLE LENGTH, DIAMETER, ROUTING, AND ALL MOUNTING APPURTENANCES WITH OWNER PRIOR TO ORDER.
- THE MAXIMUM HYBRID CABLE LENGTH HAS BEEN ESTIMATED AT FEET. APPROXIMATELY. ACTUAL ANTENNA CABLE LENGTH MAY VARY FROM ESTIMATED MAXIMUM LENGTH AND MUST BE VERIFIED.
- TAG ALL MAIN CABLES AT TWO (2) LOCATIONS. 1) AT ANTENNAS 2) OUTSIDE EQUIPMENT CABINET NEAR THE WAVEGUIDE ENTRY PORT.
- EACH CABLE SHALL BE GROUNDED AT (3) THREE LOCATIONS. ANTENNA LEVEL ON TOWER, TOWER BASE, AND EQUIPMENT H-FRAME.
- HYBRID CABLES TO BE SUPPORTED EVERY 36" OFF MOUNTING FRAMES WITH STAINLESS STEEL HANGERS.
- JUMPER CABLES TO BE SUPPORTED EVERY 18" WITH STAINLESS STEEL HANGERS.

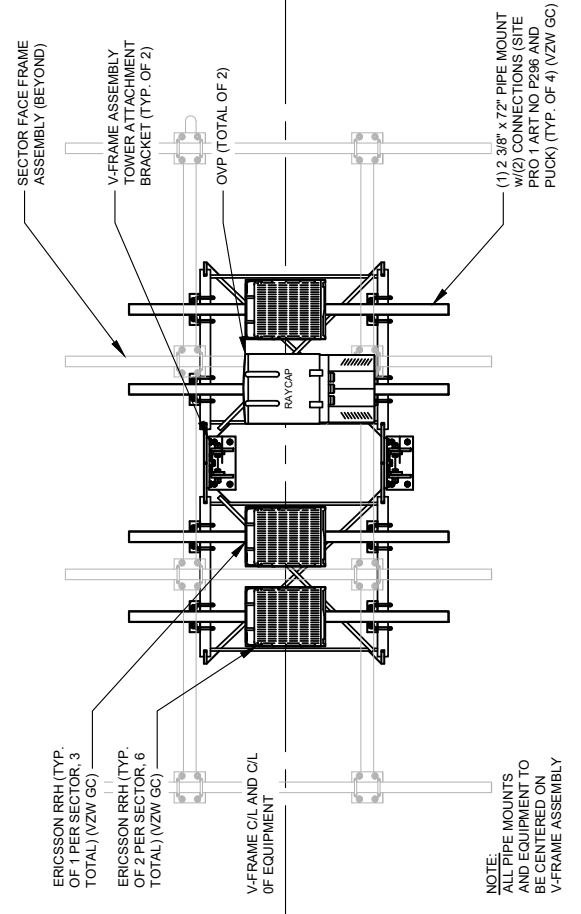
NOTE:
FINAL ANTENNA LEVEL PLAN AND PASSING MOUNT ANALYSIS MUST MATCH. NOTIFY VZW CONSTRUCTION MANAGER IF DISCREPANCY EXISTS.



2
RF-1
ANTENNA LAYOUT - PLAN VIEW
SCALE: N.T.S.
(BY VZW GC)



4
RF-1
ANTENNA MOUNT - FRONT VIEW
SCALE: N.T.S.



3
RF-1
ANTENNA MOUNT - REAR VIEW (FLATTENED)
SCALE: N.T.S.

REV.	DESCRIPTION	DATE
A	ISSUED FOR 90% REVIEW	03/09/23
B	UPDATED PER NEW MIK TEMPLATE	08/15/23
0	FINAL CDS	09/20/23
1	UPDATED ADJOINERS MAP	10/17/23

REFERENCE ONLY

KIRKSEY
FIRE STATION DR
KIRKSEY, KY 42054

TOWER DETAILS
(REFERENCE ONLY)

ISSUED FOR:

REVIEW	---
PERMIT	---
CONSTRUCTION	---
RECORD	---

PROJECT MANAGER: DESIGNER

TYP: SEK

JOB NO.
2019737.57

TW-1

GENERAL NOTES

- FOUNDATION DESIGN HAS BEEN DEVELOPED IN ACCORDANCE WITH GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRINCIPLES AND PRACTICES WITHIN THE LIMITS OF THE SUBSURFACE DATA PROVIDED. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED AT THE EVENT THE DESIGN PARAMETERS ARE NOT APPLICABLE FOR THE SUBSURFACE CONDITIONS ENCOUNTERED.
 - ULTIMATE SOIL BEARING PRESSURE AT 2.75 FT DEPTH = 6,000 PSF.
 - FOUNDATION DESIGN IS BASED ON A 15% FACTOR OF SAFETY.
 - MAXIMUM FRUST PENETRATION DEPTH LESS THAN FOUNDATION DEPTH.
- WORK SHALL BE IN ACCORDANCE WITH THE PROJECT CONSTRUCTION DOCUMENTS, LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF AISC 360 BUILDING STEEL DESIGN AND CONSTRUCTION, AISC 308 STEEL JOINTS AND CONNECTIONS, AISC 310 STEEL TUBULAR STRUCTURES, AISC 341 STEEL COMPOSITE DECKING AND CONCRETE SLABS ON STEEL DECKING, AISC 358 WELDED JOINTS, AISC 359 WELDED TUBULAR JOINTS, AISC 360 STEEL CONNECTIONS, AND ALL OTHER AISC PUBLISHED SPECIFICATIONS AND STANDARDS. EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
- STRUCTURAL CONCRETE SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
- PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL BE DETERMINED BY TESTING. ALL MIXTURES SHALL BE COMPACTED TO THE DENSITY EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI IN 28 DAYS.
- CONCRETE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 3/4 CLEAR DISTANCE BETWEEN REINFORCING WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING SHALL BE UTILIZED TO PREVENT HONEYCOMBS OR VOIDS.
- REINFORCING BARS SHALL BE PLACED AND COVERED IN ACCORDANCE WITH A573 GRADES 60 UNLESS OTHERWISE NOTED. SPICES IN REINFORCEMENT SHALL NOT BE ALLOWED UNLESS OTHERWISE INDICATED.
- WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS, UNLESS OTHERWISE NOTED.
- APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH MINIMUM COVER ON REINFORCEMENT.
- CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT BE LESS THAN 3 INCHES.
- FOUNDATION DESIGN ASSUMES STRUCTURAL BACKFILL TO BE COMPACTED IN 8 INCH MAXIMUM LAYERS TO 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D1557. ADDITIONALLY, STRUCTURAL BACKFILL MUST HAVE A MINIMUM COMPACTED UNIT WEIGHT OF 110 PCF.
- FOUNDATION DESIGN HAS BEEN BASED ON GEOTECHNICAL REPORT NO. 2019737.57 DATED 12/18/2022 BY GPO GROUP, INC.
- FOUNDATION DESIGN IS BASED ON THE GRADE LINE DESCRIBED IN THE REFERENCED GEOTECHNICAL REPORT. FOUNDATION MODIFICATION MAY BE REQUIRED IN THE EVENT CUT OR FILL OPERATIONS HAVE TAKEN PLACE SUBSEQUENT TO THE GEOTECHNICAL INVESTIGATION.
- FOUNDATION DESIGN ASSUMES THE RECOMMENDATIONS IN THE REFERENCED GEOTECHNICAL REPORT. VERIFICATION OF SUBSURFACE CONDITIONS ARE IMPLEMENTED PRIOR TO PLACEMENT OF CONCRETE.
- FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED IN ALL CONSTRUCTION AND SAFETY EQUIPMENT AND TEMPORARY SUPPORTS REQUIRED FOR ACCEPTED INSTALLATION PRACTICES.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
- CONSTRUCTION SHALL BE COMPLETED AND TEMPORARY SUPPORTS REQUIRED FOR CONSTRUCTION SHALL BE REMOVED AND THE CONSTRUCTION ACTIVITIES SHALL BE PERFORMED BY COMPETENT, QUALIFIED AND TRAINED PERSONNEL.
- FOUNDATION DESIGN ASSUMES INSTALLATION PROCEDURES WILL INCORPORATE THE PROCEDURES FOR FOUNDATION AND ANCHOR BOLTS. SEE ANCHOR BOLT LAYOUT DRAWING.
- FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCURATE.
- FOOT FOUNDATION AND ANCHOR BOLTS SHALL BE INSTALLED AS SHOWN FOR CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
- FOUNDATION DESIGN ASSUMES EXISTING UTILITIES AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION SHALL BE REVEALED AND ANCHOR BOLTS SHALL BE INSTALLED AS NECESSARY.
- THEY SHALL BE REMOVED PRIOR TO PLACING STRUCTURAL BACKFILL.
- CONSTRUCTION JOINTS, IF REQUIRED AT THE BASE OF THE PIERS, SHALL BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4 INCH. FOUNDATION DESIGN ASSUMES NO OTHER TOP OF FOUNDATION SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH.
- EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" MINIMUM.

FACTORED REACTIONS

Maximum O.T.M = 13,158.5 FT-K
 Total Tower Wt = 76.1 KIPS
 Max. Shear/leg = 48.8 KIPS
 Max. Comp./leg = 552.2 KIPS

CONCRETE VOLUME

ROUND PIERS = 4.5 CU.YDS
 PAD = 86.0 CU.YDS
 TOTAL = 90.5 CU.YDS

TOWER DESIGN LOADING

DESIGN WIND LOAD PER ANSI/TIA-222-H USING THE FOLLOWING DESIGN CRITERIA:
 BASIC WIND SPEED (NO. 10) = 106 MPH PER ASCE 7-16
 EXPOSURE CATEGORY = B
 DESIGN WIND THICKNESS = 1.50 INCHES PER ASCE 7-16
 EXPOSURE CATEGORY = C
 STRUCTURAL STEEL DESIGN IS TO BE IN ACCORDANCE WITH AISC 360-16
 STRUCTURAL CONCRETE DESIGN IS TO BE IN ACCORDANCE WITH ACI 308-14
 THIS STRUCTURE HAS BEEN DESIGNED TO SUPPORT THE FOLLOWING LOADS:

MEMBER (FT)	ARTICULATION LOCATION	LINE SIZE (MM)
206	BEACON & EMBEDDED ROD	(1) 13-5/8" CONCRETE
246	40,000 SQ IN (209 SQFT) MAX ENA	(2) 1-5/8"
246	30,000 SQ IN (159 SQFT) MAX ENA	(2) 1-5/8"
215	30,000 SQ IN (159 SQFT) MAX ENA	(2) 1-5/8"

TOWER ELEVATION

SCALE: N.T.S.

SECTION MEMBER SCHEDULE

SECTION	LESS	DIAGONALS	HORIZONTALS
RL504	PIPE 2.205X0.203	L1 3/4x1 3/4x1/8 (1)	L1 3/4x1 3/4x1/8 (1)
RL504	PIPE 3.205X0.216	L2 2x2 (1)	L1 3/4x1 3/4x1/8 (1)
RL706	PIPE 4.000X0.217	L2 2x2 (1)	L1 3/4x1 3/4x1/8 (1)
RL706	PIPE 5.000X0.217	L2 2x2 (1)	L1 3/4x1 3/4x1/8 (1)
RL712	PIPE 6.000X0.216	L2 1/2x2 1/2x1/8 (1)	L1 3/4x1 3/4x1/8 (1)
RL712	PIPE 6.000X0.216	L2 1/2x2 1/2x1/8 (1)	L1 3/4x1 3/4x1/8 (1)
RL714	PIPE 6.000X0.216	L2 1/2x2 1/2x1/8 (1)	L1 3/4x1 3/4x1/8 (1)
RL714	PIPE 6.000X0.216	L2 1/2x2 1/2x1/8 (1)	L1 3/4x1 3/4x1/8 (1)
RL716	PIPE 6.000X0.216	L2 1/2x2 1/2x1/8 (1)	L1 3/4x1 3/4x1/8 (1)
RL716	PIPE 6.000X0.216	L2 1/2x2 1/2x1/8 (1)	L1 3/4x1 3/4x1/8 (1)
RL718	PIPE 6.000X0.216	L2 1/2x2 1/2x1/8 (1)	L1 3/4x1 3/4x1/8 (1)
RL718	PIPE 6.000X0.216	L2 1/2x2 1/2x1/8 (1)	L1 3/4x1 3/4x1/8 (1)
RL722	PIPE 6.000X0.216	L2 1/2x2 1/2x1/8 (1)	L1 3/4x1 3/4x1/8 (1)
RL722	PIPE 6.000X0.216	L2 1/2x2 1/2x1/8 (1)	L1 3/4x1 3/4x1/8 (1)
RL726	PIPE 6.000X0.216	L2 1/2x2 1/2x1/8 (1)	L1 3/4x1 3/4x1/8 (1)
RL726	PIPE 6.000X0.216	L2 1/2x2 1/2x1/8 (1)	L1 3/4x1 3/4x1/8 (1)

MAXIMUM FACTORED REACTIONS

COMPRESSION PER LEG = 552.2 KIPS
 TENSION PER LEG = 48.8 KIPS
 SHEAR PER LEG = 48.8 KIPS
 TOTAL SHEAR = 86.3 KIPS
 TOTAL O.T.M = 13,158.5 FT-KIPS

GENERAL NOTES

- ROHM PRODUCTS, LLC TOWER DESIGNING CONFORM TO ANSI/TIA-222-H UNLESS OTHERWISE SPECIFIED UNDER TOWER DESIGN LOADING.
- LOADING CRITERIA HAS BEEN ASSIGNED TO BE BASED ON SITE-SPECIFIC DATA IN ACCORDANCE WITH ANSI/TIA-222-H AND MUST BE IDENTIFIED BY OTHERS PRIOR TO INSTALLATION.
- ANTENNAS AND LINES LISTED IN TOWER DESIGN LOADING TABLE ARE PROVIDED BY OTHERS. STEP BOLTS WITH SAFETY CHAIN SYSTEM ARE PROVIDED AS A CLIMBING FACILITY FOR THE TOWER. ANTENNAS AND LINES SHALL NOT BE ATTACHED TO THE TOWER STRUCTURE UNLESS OTHERWISE INDICATED.
- TOWER MEMBER DESIGN DOES NOT INCLUDE STRESSES DUE TO EJECTION SINCE EJECTION RESPONSES WILL EXCEED THE DESIGN ALLOWABLES.
- WORK SHALL BE IN ACCORDANCE WITH ANSI/TIA-222-H, STRUCTURAL STEELWORK FOR TOWER.
- THE MINIMUM WELD STRENGTH OF STRUCTURAL STEEL MEMBERS SHALL BE 50 KSI.
- STRUCTURAL BOLTS SHALL CONFORM TO GRADE A325 PER ASTM F1554 EXCEPT WHERE NOTED.
- LOADING CRITERIA IS PROVIDED FOR ALL TOWER BOLTS.
- STRUCTURAL STEEL AND CONNECTION BOLTS SHALL BE NOT LAPPED OR WALKED AFTER INSTALLATION.
- ALL HIGH STRENGTH BOLTS, UNLESS OTHERWISE NOTED FOR DOUBLE ANGLE MEMBERS, ARE TO BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED IN THE ROHM SPECIFICATION.
- CONNECTIONS SHALL BE IDENTIFIED BY OTHERS AND IDENTIFIED BY OTHERS PRIOR TO CONSTRUCTION AND FEDERAL REQUIREMENTS FOR CONNECTION MARKING AND LIGHTING SHALL BE IDENTIFIED BY OTHERS.
- DESIGN ASSUMES ALL ANTENNAS AND LINES TO BE IDENTIFIED BY OTHERS AND IDENTIFIED BY OTHERS PRIOR TO CONSTRUCTION AND FEDERAL REQUIREMENTS FOR CONNECTION MARKING AND LIGHTING SHALL BE IDENTIFIED BY OTHERS.
- DESIGN ASSUMES ALL ANTENNAS ARE MOUNTED SYMMETRICALLY TO MINIMIZE TORQUE. IF FOUNDATIONS SHALL BE DESIGNED TO SUPPORT THE REACTIONS SHOWN FOR THE CONDITIONS EXISTING AT THE SITE.

1 2 3 4 5

2
TW-1

CAISSON FOUNDATION
SCALE: N.T.S.

1
TW-1

TOWER ELEVATION
SCALE: N.T.S.



1 Fairholm Avenue
Peoria, IL 61603 USA
Phone: (309)-566-3000
Fax: (309)-566-3079

DATE: JANUARY 20, 2023

PURCHASER: SOUTHERN TOWERS, LP

PROJECT: 265FT RTL SELF SUPPORT TOWER
KIRKSEY, KY

FILE NUMBER: 242258

I CERTIFY THAT THE ATTACHED DRAWINGS WERE PREPARED UNDER MY SUPERVISION IN ACCORDANCE WITH THE DESIGN AND LOADING CRITERIA SPECIFIED BY THE PURCHASER AND THAT I AM A REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF KENTUCKY.

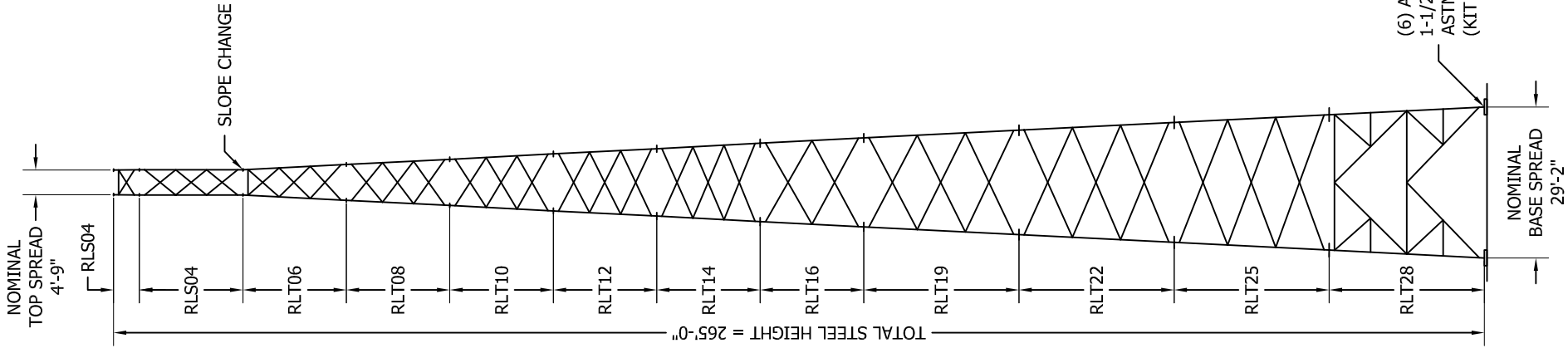
Allen Schneider

01/20/2023

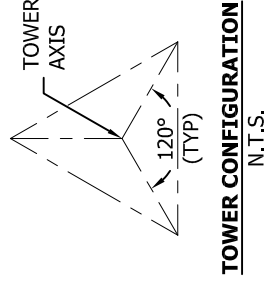


GENERAL NOTES

- ROHN PRODUCTS, LLC TOWER DESIGNS CONFORM TO ANSI/TIA-222-H UNLESS OTHERWISE SPECIFIED UNDER TOWER DESIGN LOADING.
- THE DESIGN LOADING CRITERIA INDICATED HAS BEEN PROVIDED TO ROHN. THE DESIGN LOADING CRITERIA HAS BEEN ASSUMED TO BE BASED ON SITE-SPECIFIC DATA IN ACCORDANCE WITH ANSI/TIA-222-H AND MUST BE VERIFIED BY OTHERS PRIOR TO INSTALLATION.
- ANTENNAS AND LINES LISTED IN TOWER DESIGN LOADING TABLE ARE PROVIDED BY OTHERS UNLESS OTHERWISE SPECIFIED.
- STEP BOLTS WITH SAFETY CLIMB SYSTEM ARE PROVIDED AS A CLIMBING FACILITY FOR THE INSTALLATION OF THE STRUCTURE.
- TOWER MEMBER DESIGN DOES NOT INCLUDE STRESSES DUE TO ERECTION SINCE ERECTION EQUIPMENT AND CONDITIONS ARE UNKNOWN. DESIGN ASSUMES COMPETENT AND QUALIFIED PERSONNEL WILL ERECT THE TOWER.
- WORK SHALL BE IN ACCORDANCE WITH ANSI/TIA-222-H, "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES".
- THE MINIMUM YIELD STRENGTH OF STRUCTURAL STEEL MEMBERS SHALL BE 50 KSI.
- FIELD CONNECTIONS SHALL BE BOLTED. NO FIELD WELDS SHALL BE ALLOWED.
- STRUCTURAL BOLTS SHALL CONFORM TO GRADE A325 PER ASTM F3125, EXCEPT WHERE NOTED.
- A NUT LOCKING DEVICE IS PROVIDED FOR ALL TOWER BOLTS.
- STRUCTURAL STEEL AND CONNECTION BOLTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION, IN ACCORDANCE WITH ANSI/TIA-222-H.
- ALL HIGH STRENGTH BOLTS, UNLESS OTHERWISE NOTED FOR DOUBLE ANGLE MEMBERS, ARE TO BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED IN THE RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". NO OTHER MINIMUM BOLT TENSION OR TORQUE VALUES ARE REQUIRED.
- PURCHASER SHALL VERIFY THE INSTALLATION IS IN CONFORMANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR OBSTRUCTION MARKING AND LIGHTING.
- TOLERANCE ON TOWER STEEL HEIGHT IS EQUAL TO PLUS 1% OR MINUS 1/2%.
- DESIGN ASSUMES THAT, AS A MINIMUM, MAINTENANCE AND INSPECTION WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE IN ACCORDANCE WITH ANSI/TIA-222-H.
- DESIGN ASSUMES LEVEL GRADE AT TOWER SITE.
- DESIGN ASSUMES ALL ANTENNAS ARE MOUNTED SYMMETRICALLY TO MINIMIZE TORQUE, IF APPLICABLE.
- FOUNDATIONS SHALL BE DESIGNED TO SUPPORT THE REACTIONS SHOWN FOR THE CONDITIONS EXISTING AT THE SITE.



MAXIMUM FACTORED REACTIONS	
COMPRESSION PER LEG =	552.2 KIPS
TENSION PER LEG =	480.6 KIPS
SHEAR PER LEG =	48.8 KIPS
TOTAL SHEAR =	80.3 KIPS
TOTAL O.T.M =	13,158.5 FT-KIPS



(6) ANCHOR BOLTS (18 TOTAL)
1-1/2" DIA. X 74" LONG
ASTM F1554 Gr. 105
(KIT P/N: 18K2916RTFST)

TOWER DESIGN LOADING

DESIGN WIND LOAD PER ANSI/TIA-222-H USING THE FOLLOWING DESIGN CRITERIA:
RISK CATEGORY: II
BASIC WIND SPEED (NO ICE): 106 MPH PER ASCE 7-16
BASIC WIND SPEED (W/ICE): 30 MPH PER ASCE 7-16
DESIGN ICE THICKNESS: 1.50 INCHES PER ASCE 7-16
GROUND ELEVATION, Zs: 562 FT
EXPOSURE CATEGORY: C
TOPOGRAPHIC METHOD: 1, CATEGORY: 1
SEISMIC DESIGN PARAMETERS, Ss: 0.826, Si: 0.283, T1: 12, SITE CLASS: D

THIS STRUCTURE HAS BEEN DESIGNED TO SUPPORT THE FOLLOWING LOADS:

ELEVATION (FT)	ANTENNA LOADING	LINE SIZE (NOM)
TOP	BEACON & LIGHTNING ROD	(1) 0-3/4" CONDUIT
260	40,000 SQ-IN [278 SQFT] MAX EPA	(12) 1-5/8"
245	30,000 SQ-IN [209 SQFT] MAX EPA	(12) 1-5/8"
230	30,000 SQ-IN [209 SQFT] MAX EPA	(12) 1-5/8"
215	30,000 SQ-IN [209 SQFT] MAX EPA	(12) 1-5/8"

SECTION MAIN MEMBER SCHEDULE

SECTION	LEGS	DIAGONALS	HORIZONTALS
RLS04	PIPE 2.875x0.203	L1 3/4x1 3/4x1/8 (1)	L1 3/4x1 3/4x3/16 (1)
RLS04	PIPE 3.500x0.216	L2x2x3/16 (3)	N/A
RLT06	PIPE 4.500x0.237	L2x2x3/16 (3)	L1 3/4x1 3/4x3/16 (1)
RLT08	PIPE 5.563x0.375	L2x2x1/4 (3)	N/A
RLT10	PIPE 5.563x0.375	L2 1/2x2 1/2x3/16 (3)	N/A
RLT12	PIPE 6.625x0.340	L2 1/2x2 1/2x3/16 (3)	N/A
RLT14	PIPE 6.625x0.432	L2 1/2x2 1/2x1/4 (3)	N/A
RLT16	PIPE 8.625x0.375	L3x3x3/16 (2)	N/A
RLT19	PIPE 8.625x0.500	L3x3x1/4 (3)	N/A
RLT22	PIPE 8.625x0.500	L3 1/2x3 1/2x1/4 (3)	N/A
RLT25	PIPE 8.625x0.500	L4x4x1/4 (3)	N/A
RLT28	PIPE 8.625x0.500	L4x4x5/16 (2)	L3 1/2x3 1/2x1/4 (2)

NOTE:

SECTION NUMBERS ARE FOR REFERENCE ONLY.
FOR NOMINAL FACE WIDTH DIMENSIONS, REFER TO THE STRESS ANALYSIS.
THE NUMBERS SHOWN IN PARENTHESES INDICATE THE NUMBER OF BAYS FROM TOP TO BOTTOM.

FILE NO.

242258

REV.	DESCRIPTION	DWN	CHK	APP



PO BOX 5999
PEORIA, IL 61601-5999
TOLL FREE 800-727-ROHN

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SOUTHERN TOWERS, LP
DESIGN PROFILE
265 FT RTL TOWER
KIRKSEY, KY

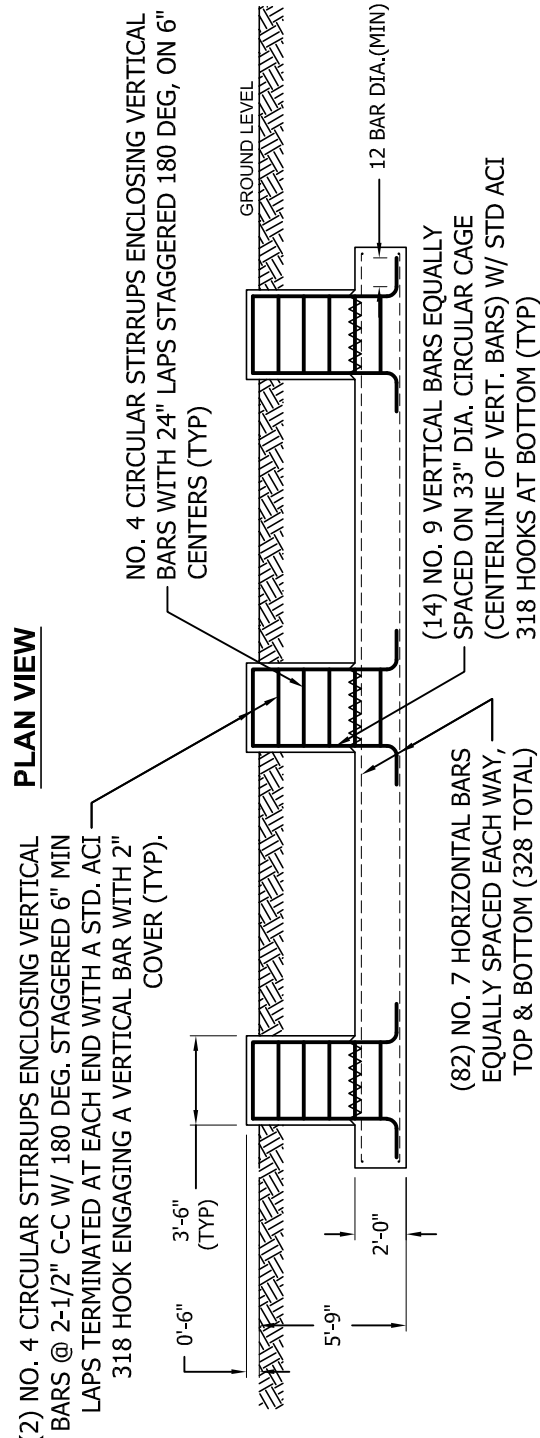
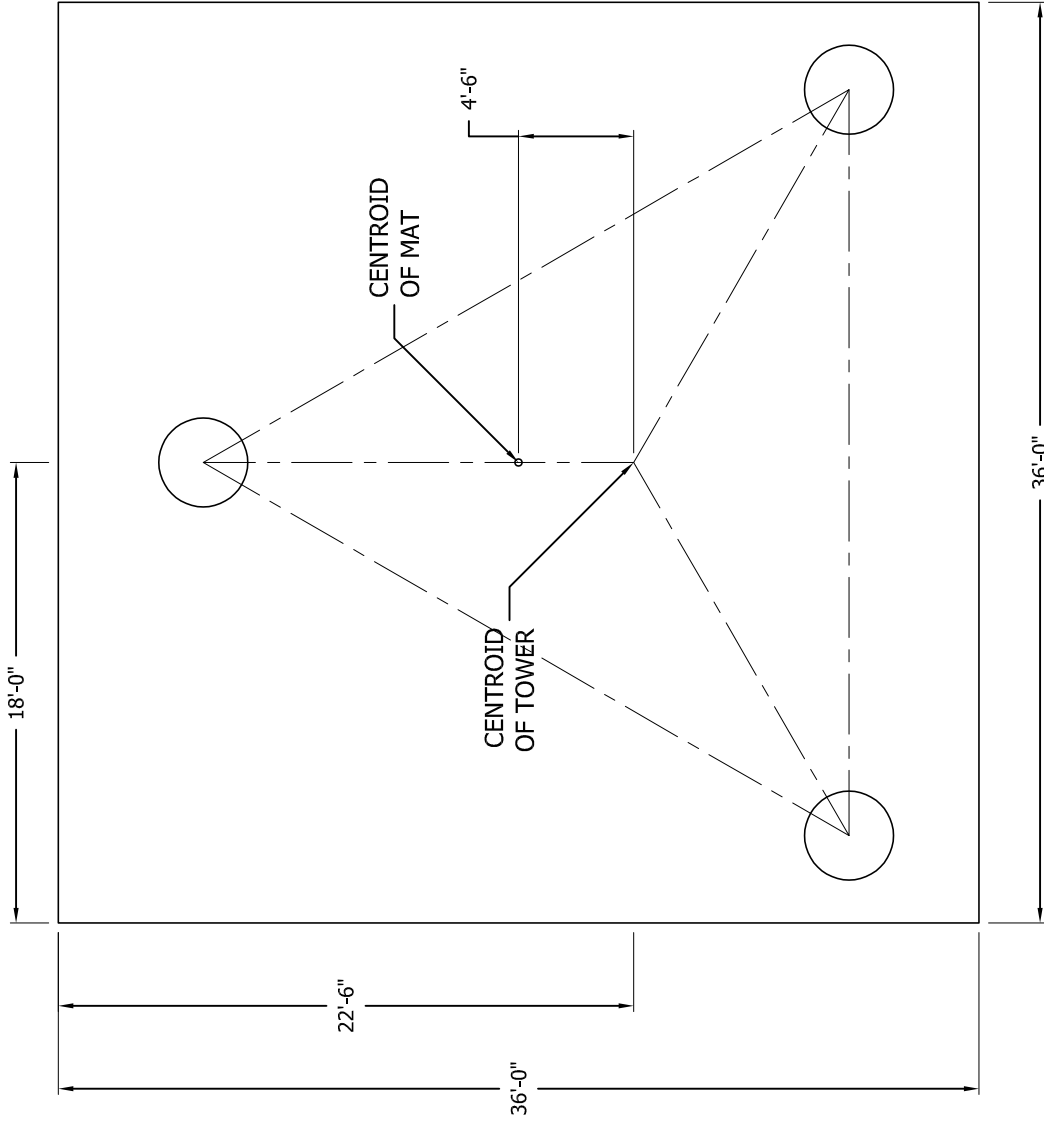
DWN:	AS	CHK'D:	SY	DATE:	01/20/2023
ENGR:	AS	SHEET #:	1 OF 1		
PRJ. ENGR:	AS	PRJ. MANGR:			

DRAWING NO:

242258-01-D1

REV:

0



FACTORED REACTIONS

Maximum O.T.M =	13,158.5 FT-K
Total Tower Wt =	78.1 KIPS
Total Shear =	80.3 KIPS
Max. Shear/Leg =	48.8 KIPS
Max. Ten./Leg =	480.6 KIPS
Max. Comp./Leg =	552.2 KIPS

CONCRETE VOLUME

ROUND PIERS	4.5 CU.YDS
PAD	96.0 CU.YDS
TOTAL	100.5 CU.YDS

GENERAL NOTES

- 1 FOUNDATION DESIGN HAS BEEN DEVELOPED IN ACCORDANCE WITH GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRINCIPLES AND PRACTICES WITHIN THE LIMITS OF THE SUBSURFACE DATA PROVIDED. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT THE FOLLOWING DESIGN PARAMETERS ARE NOT APPLICABLE FOR THE SUBSURFACE CONDITIONS ENCOUNTERED.
 - A) ULTIMATE SOIL BEARING PRESSURE AT 5.75 FT DEPTH = 6,000 PSF.
 - B) GROUND WATER TABLE IS AT OR BELOW FOUNDATION DEPTH.
 - C) MAXIMUM FROST PENETRATION DEPTH LESS THAN FOUNDATION DEPTH.
- 2 WORK SHALL BE IN ACCORDANCE WITH THE PROJECT CONSTRUCTION DOCUMENTS, LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
- 3 CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
- 4 PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI 318 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI IN 28 DAYS.
- 5 MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 3/4 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING SHALL BE UTILIZED TO PREVENT HONEYCOMBS OR VOIDS.
- 6 REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED. SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED UNLESS OTHERWISE INDICATED.
- 7 WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
- 8 MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH MINIMUM COVER ON REINFORCEMENT.
- 9 CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT EXCEED 3 INCHES NOR BE LESS THAN 2 INCHES.
- 10 FOUNDATION DESIGN ASSUMES STRUCTURAL BACKFILL TO BE COMPACTED IN 8 INCH MAXIMUM LAYERS TO 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D1557. ADDITIONALLY, STRUCTURAL BACKFILL MUST HAVE A MINIMUM COMPACTED UNIT WEIGHT OF 110 POUNDS PER CUBIC FOOT.
- 11 FOUNDATION DESIGN HAS BEEN BASED ON GEOTECHNICAL REPORT NO. **2019737.57** DATED **12/8/2022** BY **GPD GROUP, INC.**
- 12 FOUNDATION DEPTH INDICATED IS BASED ON THE GRADE LINE DESCRIBED IN THE REFERENCED GEOTECHNICAL REPORT. FOUNDATION MODIFICATION MAY BE REQUIRED IN THE EVENT CUT OR FILL OPERATIONS HAVE TAKEN PLACE SUBSEQUENT TO THE GEOTECHNICAL INVESTIGATION.
- 13 FOUNDATION DESIGN ASSUMES THE RECOMMENDATIONS IN THE REFERENCED GEOTECHNICAL REPORT CONCERNING VERIFICATION OF SUBSURFACE CONDITIONS ARE IMPLEMENTED PRIOR TO PLACEMENT OF CONCRETE.
- 14 FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
- 15 ALL CONSTRUCTION AND SAFETY EQUIPMENT AND TEMPORARY SUPPORTS REQUIRED FOR CONSTRUCTION SHALL BE DETERMINED, FURNISHED AND INSTALLED BY THE CONTRACTOR BASED ON THE MEANS AND METHODS CHOSEN BY THE CONTRACTOR. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED BY COMPETENT, QUALIFIED AND TRAINED PERSONNEL.
- 16 FOUNDATION DESIGN ASSUMES INSTALLATION PROCEDURES WILL INCORPORATE THE PROCEDURES RECOMMENDED IN THE REFERENCED GEOTECHNICAL REPORT.
- 17 FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON CONDITIONS EXISTING AT THE SITE.
- 18 FOR FOUNDATION AND ANCHOR TOLERANCES SEE ANCHOR ROD LAYOUT DRAWING.
- 19 LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
- 20 CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS, INFILTRATION OF WATER OR SOIL AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
- 21 CONCRETE PREFERABLY SHALL BE PLACED AGAINST UNDISTURBED SOIL. WHEN FORMS ARE NECESSARY, THEY SHALL BE REMOVED PRIOR TO PLACING STRUCTURAL BACKFILL.
- 22 CONSTRUCTION JOINTS, IF REQUIRED AT THE BASE OF THE PIERS, SHALL BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4 INCH. FOUNDATION DESIGN ASSUMES NO OTHER CONSTRUCTION JOINTS.
- 23 TOP OF FOUNDATION SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH.
- 24 EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" MINIMUM.

FILE NO.	242258		
REVISIONS	DWN	CHK	APP
REV.	DESCRIPTION		

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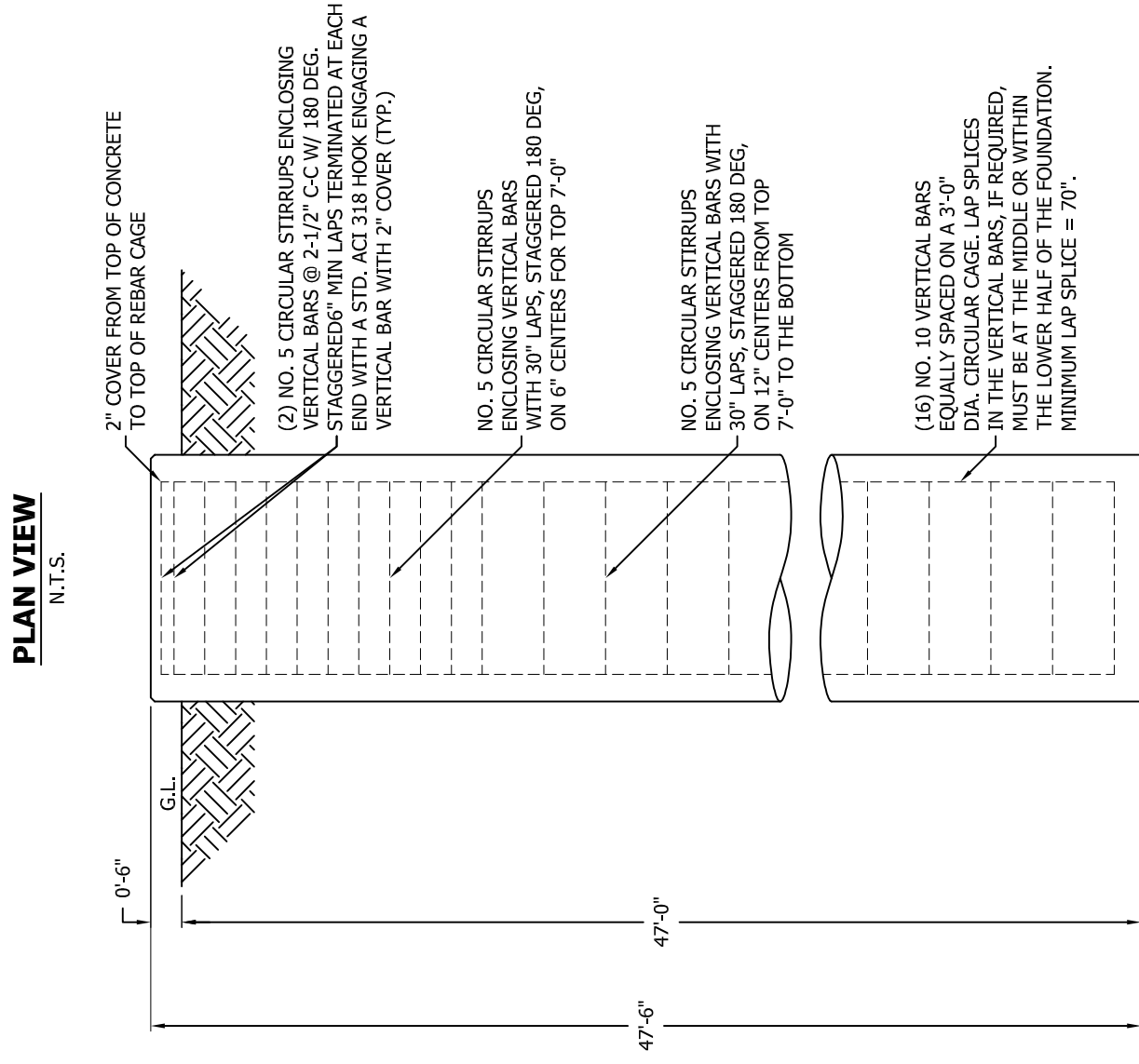
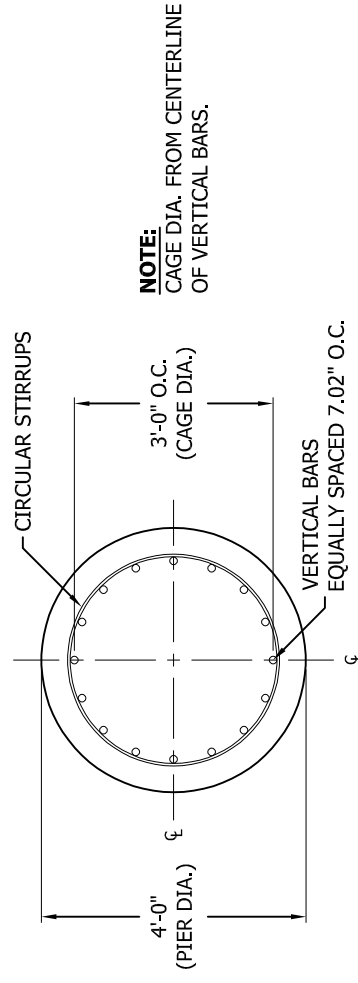
DWN:	AS	CHK'D:	SY	DATE:	01/20/2023
ENGR:	AS	SHEET #:	1 OF 1		
PRJ. ENGR:	AS	PRJ. MANGR:			
DRAWING NO: 242258-01-F1					
REV: 0					

SOUTHERN TOWERS, LP
MAT W/RAISED PIERS
FOUNDATION DESIGN
KIRKSEY, KY

REVISIONS			
REV.	DESCRIPTION	DWN	CHK
APP			

GENERAL NOTES:

- FOUNDATION DESIGN HAS BEEN DEVELOPED IN ACCORDANCE WITH GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRINCIPLES AND PRACTICES WITHIN THE LIMITS OF THE SUBSURFACE DATA PROVIDED. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT THE FOLLOWING DESIGN PARAMETERS ARE NOT APPLICABLE FOR THE SUBSURFACE CONDITIONS ENCOUNTERED.
 - DEPTH NEGLECTED FOR SKIN FRICTION = TOP 2.0 FT AND BOTTOM 4.0 FT FOR DOWNLOAD.
 - AVERAGE ULTIMATE SKIN SHEAR FOR UPLIFT: 2.0 FT TO 12.0 FT DEPTH = 350 PSF, AND 12.0 FT TO 32.0 FT DEPTH = 725 PSF, AND 32.0 FT TO 42.0 FT DEPTH = 1600 PSF, AND 42.0 FT TO 47.0 FT DEPTH = 2000 PSF.
 - AVERAGE ULTIMATE SKIN SHEAR FOR DOWNLOAD: 2.0 FT TO 12.0 FT DEPTH = 550 PSF, AND 12.0 FT TO 32.0 FT DEPTH = 1100 PSF, AND 32.0 FT TO 42.0 FT DEPTH = 2400 PSF, AND 42.0 FT TO 43.0 FT DEPTH = 3000 PSF.
 - ULTIMATE NET END BEARING AT 47.0 FT = 15.00 KSF.
 - GROUNDWATER TABLE AT 43.0 FT BELOW GROUND.
- WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACT 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
- CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
- PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACT 318 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI (31.0 MPA) IN 28 DAYS.
- MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 1/3 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2/3 CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING WILL PREVENT HONEYCOMBS OR VOIDS.
- REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED. SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED UNLESS OTHERWISE INDICATED.
- REINFORCING CAGES SHALL BE BRACED TO RETAIN PROPER DIMENSIONS DURING HANDLING AND THROUGHOUT PLACEMENT OF CONCRETE. WHEN TEMPORARY CASING IS UTILIZED, BRACING SHALL BE ADEQUATE TO RESIST FORCES OCCURRING FROM FLOWING CONCRETE DURING CASING EXTRACTION.
- WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
- MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES (76 MM) UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH (76 MM) MINIMUM COVER ON REINFORCEMENT.
- SPACERS SHALL BE ATTACHED INTERMITTENTLY THROUGHOUT THE ENTIRE LENGTH OF VERTICAL REINFORCING CAGES TO INSURE CONCENTRIC PLACEMENT OF CAGES IN EXCAVATIONS.
- FOUNDATION DESIGN HAS BEEN BASED ON GEOTECHNICAL REPORT NO. **2019737.57** DATED **12/08/2022** BY **GPD GROUP, INC.**
- FOUNDATION DEPTH INDICATED IS BASED ON THE GRADE LINE DESCRIBED IN THE REFERENCED GEOTECHNICAL REPORT. FOUNDATION MODIFICATION MAY BE REQUIRED IN THE EVENT CUT OR FILL OPERATIONS HAVE TAKEN PLACE SUBSEQUENT TO THE GEOTECHNICAL INVESTIGATION.
- FOUNDATION DESIGN ASSUMES THE RECOMMENDATIONS IN THE REFERENCED GEOTECHNICAL REPORT CONCERNING VERIFICATION OF SUBSURFACE CONDITIONS ARE IMPLEMENTED PRIOR TO PLACEMENT OF CONCRETE.
- FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
- FOUNDATION DESIGN ASSUMES INSTALLATION PROCEDURES WILL INCORPORATE THE PROCEDURES RECOMMENDED IN THE REFERENCED GEOTECHNICAL REPORT.
- FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON CONDITIONS EXISTING AT THE SITE.
- FOR FOUNDATION INSTALLATION TOLERANCES SEE STRUCTURE ASSEMBLY DRAWING.
- LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
- CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS, INFILTRATION OF WATER OR SOIL AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
- FREE FALL CONCRETE MAY BE USED PROVIDED FALL IS VERTICAL DOWN WITHOUT HITTING SIDES OF EXCAVATION, FORMWORK, REINFORCING BARS, FORM TIES, CAGE BRACING OR OTHER OBSTRUCTIONS. UNDER NO CIRCUMSTANCES SHALL CONCRETE FALL THROUGH WATER.
- TOP OF FOUNDATION OUTSIDE LIMITS OF ANCHOR BOLTS SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH. AREA INSIDE LIMITS OF ANCHOR BOLTS SHALL BE LEVEL WITH A SCRATCHED FINISH.
- EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" (19MM X 19MM) MINIMUM.
- FOUNDATION DESIGN ASSUMES CASING, IF USED, WILL NOT BE LEFT IN PLACE. EQUIPMENT, PROCEDURES, AND PROPORTIONS OF CONCRETE MATERIALS SHALL INSURE CONCRETE WILL NOT BE ADVERSELY DISTURBED UPON CASING REMOVAL.



ELEVATION VIEW

N.T.S.

FACTORED REACTIONS/LEG

DOWNLOAD =	552.2 KIPS
UPLIFT =	480.6 KIPS
SHEAR =	48.8 KIPS

VOLUME OF CONCRETE

(1) FOUNDATION	22.1 CU. YDS
(3) FOUNDATIONS	66.3 CU. YDS



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SOUTHERN TOWERS, LP
DRILLED PIER
FOUNDATION DETAILS
KIRKSEY, KY

DWN:	AS	CHK'D:	SY	DATE:	01/20/2023	
ENGR:	AS	SHEET #:	1 OF 1			
PRJ. ENGR:	AS	PRJ. MANGR:				
DRAWING NO:	242258-01-F2				REV:	0



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 Contract: 242258
 Project: 265 FT RTL TOWER
 Date and Time: 1/20/2023 11:38:32 AM

Revision: 0
 Site: KIRKSEY- KY
 Engineer: AS

Section A: PROJECT DATA

Project Title: 265 FT RTL TOWER
 Customer Name: SOUTHERN TOWERS- LP
 Site: KIRKSEY- KY
 Contract No.: 242258
 Revision: 0
 Engineer: AS
 Date: Jan 20 2023
 Time: 11:32:11 AM

ENGINEERING
 CHECKED BY: SY
 01/20/2023

Design Standard: ANSI/TIA-222-H-2017

GENERAL DESIGN CONDITIONS

Start wind direction: 0.00 (Deg)
 End wind direction: 330.00 (Deg)
 Increment wind direction: 30.00 (Deg)
 Elevation above ground: 0.00 (ft)
 Mean elevation of base of structure above sea level Zs: 562.00 (ft)
 Rooftop wind speed-up factor Ks: 1.00
 Gust Response Factor Gh: 0.85
 Risk category: II
 Exposure category: C
 Topographic category: 1
 Material Density: 490.1 (lbs/ft^3)
 Young's Modulus: 29000.0 (ksi)
 Poisson Ratio: 0.30
 Weight Multiplier: 1.25
 Minimum Bracing Resistance as per 4.4.1

WIND ONLY CONDITIONS:
 Basic Wind Speed (No Ice): 106.00 (mph)
 Directionality Factor Kd: 0.85
 Importance Factor I: 1.00
 Wind Load Factor: 1.00
 Dead Load Factor: 1.20
 Dead Load Factor for Uplift: 0.90

WIND AND ICE CONDITIONS:
 Basic Wind Speed (With Ice): 30.00 (mph)
 Directionality Factor Kd: 0.85
 Wind Load Importance Factor Iw: 1.00
 Ice Thickness Importance Factor Ii: 1.00
 Ice Thickness: 1.50 (in)
 Ice Density: 56.19 (lbs/ft^3)
 Wind Load Factor: 1.00
 Dead Load Factor: 1.20
 Ice Load Factor: 1.00

WIND ONLY SERVICEABILITY CONDITIONS:
 Serviceability Wind Speed: 60.00 (mph)
 Directionality Factor Kd: 0.85
 Importance Factor I: 1.00
 Wind Load Factor: 1.00
 Dead Load Factor: 1.00

PATTERN LOADING (IF APPLICABLE) CONDITIONS:
 Basic Wind Speed (No Ice): 106.00 (mph)
 Directionality Factor Kd: 0.85
 Importance Factor I: 1.00
 Wind Load Factor: 1.00



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Revision: 0
Site: KIRKSEY- KY
Engineer: AS

Dead Load Factor: 1.20
Dead Load Factor for Uplift: 0.90

EARTHQUAKE CONDITIONS:

Site class definition: D
Spectral response acceleration Ss: 0.826
Spectral response acceleration S1: 0.283
Long-period transition period TL: 12.000
Acceleration-based site coefficient Fa: 1.170
Velocity-based site coefficient Fv: 2.034
Design spectral response acceleration Sds: 0.644
Design spectral response acceleration Sd1: 0.384
Seismic analysis method: 1
Fundamental frequency of structure f1: 0.745
Total seismic shear Vs (Kips) : 7.44

Analysis performed using: TowerSoft Finite Element Analysis Program



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Contract: 242258

Project: 265 FT RTL TOWER

Date and Time: 1/20/2023 11:38:32 AM

Revision: 0

Site: KIRKSEY- KY

Engineer: AS

Section B: STRUCTURE GEOMETRY

TOWER GEOMETRY

Cross-Section	Height (ft)	Tot Height (ft)	# of Section	Bot Width (in)	Top Width (in)
Triangular	265.00	325.00	12	349.97	56.99

SECTION GEOMETRY

Sec #	Sec. Name	Elevation		Widths		Legs (lbs)	Brcg. (lbs)	Masses			Brcg. Clear. (in)	
		Bottom (ft)	Top (ft)	Bottom (in)	Top (in)			Sec.Brc (lbs)	Int.Brc (lbs)	Sect. (lbs)		Database (lbs)
12	RLS04	260.00	265.00	58	57	110	112	0	0	221	0	0.787
11	RLS04	240.00	260.00	58	58	572	448	0	0	1020	0	0.787
10	RLT06	220.00	240.00	83	58	814	524	0	0	1338	0	0.787
9	RLT08	200.00	220.00	107	83	1565	747	0	0	2312	0	0.787
8	RLT10	180.00	200.00	132	107	1565	828	0	0	2393	0	0.787
7	RLT12	160.00	180.00	156	132	1717	948	0	0	2665	0	0.787
6	RLT14*	140.00	160.00	182	156	2154	1422	0	0	3575	0	0.787
5	RLT16*	120.00	140.00	206	182	2484	1058	0	0	3542	0	0.787
4	RLT19*	90.00	120.00	242	206	4896	2334	0	0	7231	0	0.787
3	RLT22*	60.00	90.00	278	242	4896	3089	0	0	7985	0	0.787
2	RLT25*	30.00	60.00	314	278	4896	3956	0	0	8852	0	0.787
1	RLT28*	0.00	30.00	350	314	4895	3692	1411	581	10579	0	0.787
Total Mass:						30566	19157	1411	581	51714	0	

PANEL GEOMETRY

Sec#	Pnl#	Type	SecBrcg	Mid. Continuous	Horiz	Horiz	Height (ft)	Bottom Width (in)	Top Width (in)	Plan Bracing	Hip Bracing	Gusset Plate Area (ft^2)	Gusset Plate Weight (lbs)
12	1	X	(None)		Yes	5.0	57.5	57.0	(None)	(None)	(None)	0.300	0.30
11	3	X	(None)		None	6.7	57.8	57.5	(None)	(None)	(None)	0.300	0.30
11	2	X	(None)		None	6.7	58.1	57.8	(None)	(None)	(None)	0.300	0.30
11	1	X	(None)		None	6.7	58.4	58.1	(None)	(None)	(None)	0.300	0.30
10	3	X	(None)		Yes	6.7	66.7	58.4	(None)	(None)	(None)	0.300	0.30
10	2	X	(None)		None	6.7	75.0	66.7	(None)	(None)	(None)	0.300	0.30
10	1	X	(None)		None	6.7	83.3	75.0	(None)	(None)	(None)	0.300	0.30
9	3	X	(None)		None	6.7	91.3	83.3	(None)	(None)	(None)	0.300	0.30
9	2	X	(None)		None	6.7	99.3	91.3	(None)	(None)	(None)	0.300	0.30
9	1	X	(None)		None	6.7	107.3	99.3	(None)	(None)	(None)	0.300	0.30
8	3	X	(None)		None	6.7	115.6	107.3	(None)	(None)	(None)	0.300	0.30
8	2	X	(None)		None	6.7	123.9	115.6	(None)	(None)	(None)	0.300	0.30
8	1	X	(None)		None	6.7	132.2	123.9	(None)	(None)	(None)	0.300	0.30
7	3	X	(None)		None	6.7	140.2	132.2	(None)	(None)	(None)	0.300	0.30
7	2	X	(None)		None	6.7	148.2	140.2	(None)	(None)	(None)	0.300	0.30
7	1	X	(None)		None	6.7	156.2	148.2	(None)	(None)	(None)	0.300	0.30
6	3	X	(None)		None	6.7	164.8	156.2	(None)	(None)	(None)	0.300	0.30
6	2	X	(None)		None	6.7	173.4	164.8	(None)	(None)	(None)	0.300	0.30
6	1	X	(None)		None	6.7	182.0	173.4	(None)	(None)	(None)	0.300	0.30
5	2	X	(None)		None	10.0	194.0	182.0	(None)	(None)	(None)	0.300	0.30
5	1	X	(None)		None	10.0	206.0	194.0	(None)	(None)	(None)	0.300	0.30
4	3	X	(None)		None	10.0	218.0	206.0	(None)	(None)	(None)	0.300	0.30
4	2	X	(None)		None	10.0	230.0	218.0	(None)	(None)	(None)	0.300	0.30
4	1	X	(None)		None	10.0	242.0	230.0	(None)	(None)	(None)	0.300	0.30
3	3	X	(None)		None	10.0	254.0	242.0	(None)	(None)	(None)	0.300	0.30
3	2	X	(None)		None	10.0	266.0	254.0	(None)	(None)	(None)	0.300	0.30
3	1	X	(None)		None	10.0	278.0	266.0	(None)	(None)	(None)	0.300	0.30
2	3	X	(None)		None	10.0	290.0	278.0	(None)	(None)	(None)	0.300	0.30
2	2	X	(None)		None	10.0	302.0	290.0	(None)	(None)	(None)	0.300	0.30
2	1	X	(None)		None	10.0	314.0	302.0	(None)	(None)	(None)	0.300	0.30
1	2	K	2-Subdiv.	Yes	15.0	332.0	314.0	2-Subdiv.	(None)	(None)	(None)	0.300	0.30
1	1	K	2-Subdiv.	Yes	15.0	350.0	332.0	2-Subdiv.	(None)	(None)	(None)	0.300	0.30

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Revision: 0
Site: KIRKSEY- KY
Engineer: AS

MEMBER PROPERTIES

Sec/ Member Pnl Spacing	Type	Description	Steel Grade	Conn. Type	Bolt # - Size	Bolt Grade	End Dist.	Edge Dist.	Gusset Thick.	Gusset Grade	Bolt Space	Dble Mem.
12/1	Leg	PIPE 2.875x0.203	A500	gr.CSTension	4-0.750	A325X						
12/1	Diag	L1 3/4x1 3/4x1/8	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
12/1	Horiz	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
11/3	Leg	PIPE 3.500x0.216	A500	gr.CSTension	4-0.750	A325X						
11/3	Diag	L2x2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
11/2	Leg	PIPE 3.500x0.216	A500	gr.CSTension	4-0.750	A325X						
11/2	Diag	L2x2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
11/1	Leg	PIPE 3.500x0.216	A500	gr.CSTension	4-0.750	A325X						
11/1	Diag	L2x2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
10/3	Leg	PIPE 4.500x0.237	A500	gr.CSTension	5-1.000	A325X						
10/3	Diag	L2x2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
10/3	Horiz	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
10/2	Leg	PIPE 4.500x0.237	A500	gr.CSTension	5-1.000	A325X						
10/2	Diag	L2x2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
10/1	Leg	PIPE 4.500x0.237	A500	gr.CSTension	5-1.000	A325X						
10/1	Diag	L2x2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
9/3	Leg	PIPE 5.563x0.375	A500	gr.CSTension	5-1.000	A325X						
9/3	Diag	L2x2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
9/2	Leg	PIPE 5.563x0.375	A500	gr.CSTension	5-1.000	A325X						
9/2	Diag	L2x2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
9/1	Leg	PIPE 5.563x0.375	A500	gr.CSTension	5-1.000	A325X						
9/1	Diag	L2x2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
8/3	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
8/3	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
8/2	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
8/2	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
8/1	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
8/1	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
7/3	Leg	PIPE 6.625x0.340	A500	gr.CSTension	6-1.000	A325X						
7/3	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
7/2	Leg	PIPE 6.625x0.340	A500	gr.CSTension	6-1.000	A325X						
7/2	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000

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7/1	Leg	PIPE 6.625x0.340	A500	gr.CSTension	6-1.000	A325X							
7/1	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000	
6/3	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.500	A325X							
6/3	Diag	L2 1/2x2 1/2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000	
6/2	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.500	A325X							
6/2	Diag	L2 1/2x2 1/2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000	
6/1	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.500	A325X							
6/1	Diag	L2 1/2x2 1/2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000	
5/2	Leg	PIPE 8.625x0.375	A500	gr.CSTension	6-1.500	A325X							
5/2	Diag	L3x3x3/16	A529	gr.50Bolted	2-0.625	A325X	1.125	1.500	0.375	A572	gr.50	2.000	
5/1	Leg	PIPE 8.625x0.375	A500	gr.CSTension	6-1.500	A325X							
5/1	Diag	L3x3x3/16	A529	gr.50Bolted	2-0.625	A325X	1.125	1.500	0.375	A572	gr.50	2.000	
4/3	Leg	PIPE 8.625x0.500	A500	gr.CSTension	6-1.500	A325X							
4/3	Diag	L3x3x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	1.500	0.375	A572	gr.50	2.000	
4/2	Leg	PIPE 8.625x0.500	A500	gr.CSTension	6-1.500	A325X							
4/2	Diag	L3x3x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	1.500	0.375	A572	gr.50	2.000	
4/1	Leg	PIPE 8.625x0.500	A500	gr.CSTension	6-1.500	A325X							
4/1	Diag	L3x3x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	1.500	0.375	A572	gr.50	2.000	
3/3	Leg	PIPE 8.625x0.500	A500	gr.CSTension	6-1.500	A325X							
3/3	Diag	L3 1/2x3 1/2x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	0.875	0.375	A572	gr.50	2.000	
3/2	Leg	PIPE 8.625x0.500	A500	gr.CSTension	6-1.500	A325X							
3/2	Diag	L3 1/2x3 1/2x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	0.875	0.375	A572	gr.50	2.000	
3/1	Leg	PIPE 8.625x0.500	A500	gr.CSTension	6-1.500	A325X							
3/1	Diag	L3 1/2x3 1/2x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	1.750	0.375	A572	gr.50	2.000	
2/3	Leg	PIPE 8.625x0.500	A500	gr.CSTension	6-1.500	A325X							
2/3	Diag	L4x4x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	2.000	0.375	A572	gr.50	2.000	
2/2	Leg	PIPE 8.625x0.500	A500	gr.CSTension	6-1.500	A325X							
2/2	Diag	L4x4x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	2.000	0.375	A572	gr.50	2.000	
2/1	Leg	PIPE 8.625x0.500	A500	gr.CSTension	6-1.500	A325X							
2/1	Diag	L4x4x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	2.000	0.375	A572	gr.50	2.000	
1/2	Leg	PIPE 8.625x0.500	A500	gr.CSTension	6-1.500	A325X							
1/2	Diag	L4x4x5/16	A529	gr.50Bolted	2-0.625	A325X	1.125	2.000	0.375	A572	gr.50	2.000	
1/2	Horiz	L3 1/2x3 1/2x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	1.750	0.375	A572	gr.50	2.000	
1/2	SecD1	L3x3x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.500	0.250	A572	gr.50	2.000	
1/2	SecH1	L3x3x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.500	0.250	A572	gr.50	2.000	
1/2	PlanH1	L3 1/2x3 1/2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.750	0.250	A572	gr.50	2.000	



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1/1	Leg	PIPE 8.625x0.500	A500 gr.CSTension	6-1.500	A325X						
1/1	Diag	L4x4x5/16	A529 gr.50Bolted	2-0.625	A325X	1.125	2.000	0.375	A572 gr.50		
										2.000	
1/1	Horiz	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	1.750	0.375	A572 gr.50		
										2.000	
1/1	SecD1	L3x3x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.500	0.250	A572 gr.50		
										2.000	
1/1	SecH1	L3x3x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.500	0.250	A572 gr.50		
										2.000	
1/1	PlanH1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.750	0.250	A572 gr.50		
										2.000	



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Engineer: AS

Section D: TRANSMISSION LINE DATA

Transmission Lines Position

No.	Bot El (ft)	Top El (ft)	Desc.	Radius (ft)	Az.	Orient.	No.	No. of Rows	Vert.	Antenna	User Ka
1	0.00	265.00	3/8 CABLE	18.00	0.00	0.00	1	1	Yes		
2	0.00	265.00	RC0.75-Cnd	14.68	60.00	5.00	1	1	No		
3	0.00	260.00	TX Ladder	9.72	60.00	30.00	1	1	No		
4	230.00	260.00	LDF7P-50A	1.97	60.00	30.00	12	2	No		
5	0.00	245.00	TX Ladder	9.72	180.00	150.00	1	1	No		
6	215.00	245.00	LDF7P-50A	2.48	180.00	150.00	12	2	No		
7	0.00	230.00	LDF7P-50A	9.72	60.00	30.00	24	2	No		
8	0.00	215.00	LDF7P-50A	9.72	180.00	150.00	24	2	No		

Transmission Lines Details

No.	Desc.	Width (in)	Depth (in)	Unit Mass (lb/ft)	Line Spacing (in)	Row Spacing (in)
1	3/8 CABLE	0.38	0.38	1.00	2.750	2.750
2	RC0.75-Cnd	1.05	1.05	1.09	2.750	2.750
3	TX Ladder	4.70	1.50	4.00	2.750	2.750
4	LDF7P-50A	2.01	2.01	0.92	2.250	2.750
5	TX Ladder	4.70	1.50	4.00	2.750	2.750
6	LDF7P-50A	2.01	2.01	0.92	2.250	2.750
7	LDF7P-50A	2.01	2.01	0.92	2.250	2.750
8	LDF7P-50A	2.01	2.01	0.92	2.250	2.750

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Section F: POINT LOAD DATA

Structure Azimuth from North:0.00

POINT LOADS

No.	Description	Elev. (ft)	Radius (ft)	Azim. (Deg)	Orient. (Deg)	Vertical Offset (ft)	Tx Line	Comments
1	BEACON & LR	265.00	1.00	0.0	0.0	0.00		
2	40,000 SQ-IN MAX EPA	260.00	0.00	0.0	0.0	0.00		
3	30,000 SQ-IN MAX EPA	245.00	0.00	0.0	0.0	0.00		
4	30,000 SQ-IN MAX EPA	230.00	0.00	0.0	0.0	0.00		
5	30,000 SQ-IN MAX EPA	215.00	0.00	0.0	0.0	0.00		

POINT LOADS WIND AREAS AND WEIGHTS

No.	Description	Frontal Bare Area (ft^2)	Lateral Bare Area (ft^2)	Frontal Iced Area (ft^2)	Lateral Iced Area (ft^2)	Weight Bare (Kips)	Weight Iced (Kips)	Gh
1	BEACON & LR	5.00	5.00	10.00	10.00	0.25	0.50	0.85
2	40,000 SQ-IN MAX EPA	278.00	278.00	556.00	556.00	4.00	8.00	0.85
3	30,000 SQ-IN MAX EPA	209.00	209.00	418.00	418.00	3.00	6.00	0.85
4	30,000 SQ-IN MAX EPA	209.00	209.00	418.00	418.00	3.00	6.00	0.85
5	30,000 SQ-IN MAX EPA	209.00	209.00	418.00	418.00	3.00	6.00	0.85



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Section H: STRUCTURE DISPLACEMENT DATA

Load Combination Wind Only - Serviceability

Wind Direction Maximum displacements

Node	Elev. (ft)	N-S Disp (in)	W-E Disp (in)	Vert.Disp (in)	N-S Rot (Deg)	W-E Rot (Deg)	Twist (Deg)
105	265.0	15.2	14.5	-0.1	0.62	0.61	0.01
102	260.0	14.5	13.9	-0.1	0.64	0.62	0.02
99	253.3	13.6	13.0	-0.1	0.62	0.61	0.01
96	246.7	12.7	12.2	-0.1	0.61	0.59	0.00
93	240.0	11.9	11.4	-0.1	0.58	0.56	-0.01
90	233.3	11.1	10.6	-0.1	0.54	0.52	0.02
87	226.7	10.3	9.8	-0.1	0.53	0.51	0.01
84	220.0	9.6	9.1	-0.1	0.47	0.45	-0.03
81	213.3	8.9	8.5	-0.1	0.48	0.47	-0.03
78	206.7	8.3	7.8	-0.1	0.42	0.41	-0.03
75	200.0	7.7	7.3	-0.1	0.44	0.42	-0.02
72	193.3	7.1	6.7	-0.1	0.38	0.36	-0.03
69	186.7	6.5	6.2	-0.1	0.39	0.38	-0.02
66	180.0	6.0	5.6	-0.1	0.33	0.32	-0.02
63	173.3	5.5	5.2	-0.1	0.35	0.34	-0.02
60	166.7	5.0	4.7	-0.1	0.29	0.28	-0.02
57	160.0	4.6	4.4	-0.1	0.31	0.29	-0.02
54	153.3	4.2	3.9	-0.1	0.25	0.24	-0.02
51	146.7	3.9	3.6	-0.1	0.27	0.26	-0.01
48	140.0	3.5	3.3	-0.1	0.22	0.21	-0.01
45	130.0	3.0	2.8	-0.1	0.22	0.21	0.01
42	120.0	2.5	2.4	-0.1	0.18	0.17	-0.01
39	110.0	2.2	2.0	-0.1	0.18	0.17	-0.01
36	100.0	1.8	1.7	-0.1	0.15	0.14	-0.01
33	90.0	1.5	1.4	-0.1	0.15	0.14	-0.01
30	80.0	1.1	1.1	-0.1	0.12	0.11	-0.01
27	70.0	0.9	0.8	0.0	0.12	0.11	0.00
24	60.0	0.6	0.6	0.0	0.09	0.08	0.00
21	50.0	0.5	0.4	0.0	0.08	0.08	0.00
18	40.0	0.3	0.3	0.0	0.06	0.06	0.00
14	30.0	0.2	-0.1	0.0	0.04	0.03	0.00
8	15.0	0.0	0.0	0.0	0.01	-0.01	0.00
3	0.0	0.0	0.0	0.0	0.00	0.00	0.00

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Section L: STRENGTH ASSESSMENT SORTED DATA

Load Combination	Max Envelope										
Wind Direction	Maximum										
Sec	Pnl	Elev.	MType	Desc.	Len	kl/r	Gov.	Gov.	Max	Max	Asses.
		(ft)			(ft)		comp.	tens.	Compr.	Tens.	Ratio
							cap.	cap.	(Kips)	(Kips)	
							(Kips)	(Kips)			
12	1	260.00	Leg	PIPE 2.875x0.203	5.00	63.4	57.1	76.5	1.3	0.8	0.02
11	3	253.33	Leg	PIPE 3.500x0.216	6.67	69.0	70.9	100.4	8.9	5.8	0.13
11	2	246.67	Leg	PIPE 3.500x0.216	6.67	69.0	70.9	100.4	26.9	22.9	0.38
11	1	240.00	Leg	PIPE 3.500x0.216	6.67	69.0	70.9	100.4	45.5	40.0	0.64
10	3	233.33	Leg	PIPE 4.500x0.237	6.68	53.1	116.1	142.6	70.8	63.7	0.61
10	2	226.67	Leg	PIPE 4.500x0.237	6.68	53.1	116.1	142.6	89.2	80.5	0.77
10	1	220.00	Leg	PIPE 4.500x0.237	6.68	53.1	116.1	142.6	111.5	100.9	0.96
9	3	213.33	Leg	PIPE 5.563x0.375	6.68	43.6	239.4	275.0	131.8	119.8	0.55
9	2	206.67	Leg	PIPE 5.563x0.375	6.68	43.6	239.4	275.0	154.3	139.7	0.64
9	1	200.00	Leg	PIPE 5.563x0.375	6.68	43.6	239.4	275.0	176.8	161.0	0.74
8	3	193.33	Leg	PIPE 5.563x0.375	6.68	43.6	239.3	275.0	195.4	178.7	0.82
8	2	186.67	Leg	PIPE 5.563x0.375	6.68	43.6	239.3	275.0	213.7	195.8	0.89
8	1	180.00	Leg	PIPE 5.563x0.375	6.68	43.6	239.3	275.0	229.4	210.4	0.96
7	3	173.33	Leg	PIPE 6.625x0.340	6.68	36.0	276.7	302.1	245.6	225.3	0.89
7	2	166.67	Leg	PIPE 6.625x0.340	6.68	36.0	276.7	302.1	260.0	238.6	0.94
7	1	160.00	Leg	PIPE 6.625x0.340	6.68	36.0	276.7	302.1	274.9	252.2	0.99
6	3	153.33	Leg	PIPE 6.625x0.432	6.68	36.4	343.5	378.5	287.6	263.6	0.84
6	2	146.67	Leg	PIPE 6.625x0.432	6.68	36.4	343.5	378.5	300.9	275.2	0.88
6	1	140.00	Leg	PIPE 6.625x0.432	6.68	36.4	343.5	378.5	312.2	285.2	0.91
5	2	130.00	Leg	PIPE 8.625x0.375	10.02	41.2	386.4	437.4	328.4	299.3	0.85
5	1	120.00	Leg	PIPE 8.625x0.375	10.02	41.2	386.4	437.4	345.3	314.2	0.89
4	3	110.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	364.5	330.5	0.72
4	2	100.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	380.9	344.4	0.75
4	1	90.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	399.1	359.5	0.79
3	3	80.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	415.1	372.8	0.82
3	2	70.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	432.6	387.1	0.86
3	1	60.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	448.3	399.9	0.89
2	3	50.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	465.3	413.5	0.92
2	2	40.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	480.9	425.9	0.95
2	1	30.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	497.6	439.1	0.98
1	2	15.00	Leg	PIPE 8.625x0.500	15.02	31.3	534.5	574.2	506.6	444.4	0.95
1	1	0.00	Leg	PIPE 8.625x0.500	15.02	31.3	534.5	574.2	530.7	462.7	0.99
12	1	260.00	Diag	L1 3/4x1 3/4x1/8	6.91	107.1	10.5	7.1	1.6	1.7	0.24
11	3	253.33	Diag	L2x2x3/16	8.22	111.1	16.4	11.8	5.6	5.4	0.45
11	2	246.67	Diag	L2x2x3/16	8.23	111.3	16.4	11.8	5.7	5.9	0.50
11	1	240.00	Diag	L2x2x3/16	8.25	111.5	16.3	11.8	9.3	9.1	0.77
10	3	233.33	Diag	L2x2x3/16	8.47	118.4	14.5	11.8	6.8	6.7	0.57
10	2	226.67	Diag	L2x2x3/16	8.91	125.5	12.9	11.8	7.6	7.5	0.63
10	1	220.00	Diag	L2x2x3/16	9.38	133.5	11.4	11.8	8.3	8.2	0.72
9	3	213.33	Diag	L2x2x1/4	9.87	139.3	13.8	15.7	8.5	8.4	0.61
9	2	206.67	Diag	L2x2x1/4	10.37	147.6	12.3	15.7	10.0	9.9	0.81
9	1	200.00	Diag	L2x2x1/4	10.89	155.9	11.1	15.7	9.4	9.4	0.85
8	3	193.33	Diag	L2 1/2x2 1/2x3/16	11.44	130.8	15.1	10.7	8.8	8.7	0.82
8	2	186.67	Diag	L2 1/2x2 1/2x3/16	12.00	138.0	13.5	10.7	8.4	8.5	0.80
8	1	180.00	Diag	L2 1/2x2 1/2x3/16	12.59	145.4	12.2	10.7	8.3	8.2	0.77
7	3	173.33	Diag	L2 1/2x2 1/2x3/16	13.17	151.2	11.3	10.7	8.4	8.5	0.80
7	2	166.67	Diag	L2 1/2x2 1/2x3/16	13.75	158.5	10.3	10.7	8.4	8.4	0.82
7	1	160.00	Diag	L2 1/2x2 1/2x3/16	14.33	165.8	9.4	10.7	8.4	8.4	0.89
6	3	153.33	Diag	L2 1/2x2 1/2x1/4	14.95	173.8	11.3	17.2	7.8	7.7	0.69
6	2	146.67	Diag	L2 1/2x2 1/2x1/4	15.59	181.8	10.3	17.2	7.8	7.8	0.75
6	1	140.00	Diag	L2 1/2x2 1/2x1/4	16.24	189.9	9.5	17.2	7.9	7.8	0.84
5	2	130.00	Diag	L3x3x3/16	18.59	165.0	11.5	21.1	9.4	9.5	0.82
5	1	120.00	Diag	L3x3x3/16	19.44	171.8	10.6	21.1	9.7	9.5	0.91
4	3	110.00	Diag	L3x3x1/4	20.30	178.6	12.9	28.1	9.6	9.7	0.75

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Site: KIRKSEY- KY

Engineer: AS

4	2	100.00	Diag	L3x3x1/4	21.18	185.5	12.0	28.1	9.9	9.8	0.83
4	1	90.00	Diag	L3x3x1/4	22.06	192.5	11.1	28.1	10.0	10.0	0.90
3	3	80.00	Diag	L3 1/2x3 1/2x1/4	22.96	174.6	15.9	20.4	10.3	10.1	0.65
3	2	70.00	Diag	L3 1/2x3 1/2x1/4	23.86	180.6	14.8	20.4	10.4	10.5	0.70
3	1	60.00	Diag	L3 1/2x3 1/2x1/4	24.77	186.8	13.9	31.1	10.8	10.6	0.78
2	3	50.00	Diag	L4x4x1/4	25.69	170.2	19.2	34.1	10.9	11.0	0.57
2	2	40.00	Diag	L4x4x1/4	26.62	175.5	18.0	34.1	11.3	11.1	0.63
2	1	30.00	Diag	L4x4x1/4	27.55	180.9	17.0	34.1	11.4	11.5	0.67
1	2	15.00	Diag	L4x4x5/16	20.41	181.7	20.8	34.5	16.7	16.7	0.80
1	1	0.00	Diag	L4x4x5/16	20.92	186.8	19.7	34.5	16.7	16.7	0.85
12	1	260.00	Horiz	L1 3/4x1 3/4x3/16	4.75	145.7	8.4	10.7	1.1	1.0	0.13
10	3	233.33	Horiz	L1 3/4x1 3/4x3/16	4.87	145.1	8.4	10.7	0.2	0.1	0.02
1	2	15.00	Horiz	L3 1/2x3 1/2x1/4	13.08	179.7	15.0	31.1	11.4	11.3	0.76
1	1	0.00	Horiz	L3 1/2x3 1/2x1/4	13.83	187.7	13.7	31.1	11.7	11.6	0.85
1	2	15.00	SecH1	L3x3x1/4	6.54	133.0	17.2	17.2	8.7	8.7	0.51
1	2	15.00	SecD1	L3x3x1/4	9.71	197.5	10.6	17.2	6.9	6.9	0.65
1	2	15.00	PlanH1	L3 1/2x3 1/2x1/4	13.08	227.5	9.3	17.2	0.1	0.1	0.01
1	1	0.00	SecH1	L3x3x1/4	6.92	140.7	17.2	17.2	9.2	9.2	0.53
1	1	0.00	SecD1	L3x3x1/4	9.95	202.5	10.1	17.2	7.0	7.0	0.69
1	1	0.00	PlanH1	L3 1/2x3 1/2x1/4	13.83	240.6	8.4	17.2	0.1	0.1	0.01

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Project: 265 FT RTL TOWER

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Site: KIRKSEY- KY

Engineer: AS

Section M: SECTION PROPERTIES DATA

Sec	Pan	Memb. Type	Steel Grade	Conn. Type	Bolts Bolts	Bolt Size (in)	Bolt Grade	End Dist. (in)	Gusset Thick. (in)	kl/r	Comp Cap. (Kips)	Tens Cap. (Kips)	Bolt Cap. (Kips)	Bear. Cap. (Kips)	Block Shear (Kips)
12	1	Leg	A500 gr.CS	Tension	4	0.750	A325X	1.800	N/A	63.4	57.1	76.5	121.7T	N/A	N/A
12	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	107.1	10.5	11.9	17.2S	9.8	7.1
12	1	Horiz	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	145.7	8.4	17.4	17.2S	14.7	10.7
11	3	Leg	A500 gr.CS	Tension	4	0.750	A325X	1.800	N/A	69.0	70.9	100.4	121.7T	N/A	N/A
11	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	111.1	16.4	20.7	17.2S	14.7	11.8
11	2	Leg	A500 gr.CS	Tension	4	0.750	A325X	1.800	N/A	69.0	70.9	100.4	121.7T	N/A	N/A
11	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	111.3	16.4	20.7	17.2S	14.7	11.8
11	1	Leg	A500 gr.CS	Tension	4	0.750	A325X	1.800	N/A	69.0	70.9	100.4	121.7T	N/A	N/A
11	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	111.5	16.3	20.7	17.2S	14.7	11.8
10	3	Leg	A500 gr.CS	Tension	5	1.000	A325X	2.400	N/A	53.1	116.1	142.6	275.3T	N/A	N/A
10	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	118.4	14.5	20.7	17.2S	14.7	11.8
10	3	Horiz	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	145.1	8.4	17.4	17.2S	14.7	10.7
10	2	Leg	A500 gr.CS	Tension	5	1.000	A325X	2.400	N/A	53.1	116.1	142.6	275.3T	N/A	N/A
10	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	125.5	12.9	20.7	17.2S	14.7	11.8
10	1	Leg	A500 gr.CS	Tension	5	1.000	A325X	2.400	N/A	53.1	116.1	142.6	275.3T	N/A	N/A
10	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	133.5	11.4	20.7	17.2S	14.7	11.8
9	3	Leg	A500 gr.CS	Tension	5	1.000	A325X	2.400	N/A	43.6	239.4	275.0	275.3T	N/A	N/A
9	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	139.3	13.8	27.3	17.2S	19.5	15.7
9	2	Leg	A500 gr.CS	Tension	5	1.000	A325X	2.400	N/A	43.6	239.4	275.0	275.3T	N/A	N/A
9	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	147.6	12.3	27.3	17.2S	19.5	15.7
9	1	Leg	A500 gr.CS	Tension	5	1.000	A325X	2.400	N/A	43.6	239.4	275.0	275.3T	N/A	N/A
9	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	155.9	11.1	27.3	17.2S	19.5	15.7
8	3	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	43.6	239.3	275.0	330.3T	N/A	N/A
8	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	130.8	15.1	27.7	17.2S	14.7	10.7
8	2	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	43.6	239.3	275.0	330.3T	N/A	N/A
8	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	138.0	13.5	27.7	17.2S	14.7	10.7
8	1	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	43.6	239.3	275.0	330.3T	N/A	N/A
8	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	145.4	12.2	27.7	17.2S	14.7	10.7
7	3	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	36.0	274.8	302.1	330.3T	N/A	N/A
7	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	151.2	11.3	27.7	17.2S	14.7	10.7
7	2	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	36.0	274.8	302.1	330.3T	N/A	N/A
7	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	158.5	10.3	27.7	17.2S	14.7	10.7
7	1	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	36.0	274.8	302.1	330.3T	N/A	N/A
7	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	165.8	9.4	27.7	17.2S	14.7	10.7
6	3	Leg	A500 gr.CS	Tension	6	1.500	A325X	3.600	N/A	36.4	343.5	378.5	765.3T	N/A	N/A
6	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	173.8	11.3	36.5	17.2S	19.5	18.7
6	2	Leg	A500 gr.CS	Tension	6	1.500	A325X	3.600	N/A	36.4	343.5	378.5	765.3T	N/A	N/A
6	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	181.8	10.3	36.5	17.2S	19.5	18.7
6	1	Leg	A500 gr.CS	Tension	6	1.500	A325X	3.600	N/A	36.4	343.5	378.5	765.3T	N/A	N/A
6	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	189.9	9.5	36.5	17.2S	19.5	18.7
5	2	Leg	A500 gr.CS	Tension	6	1.500	A325X	3.600	N/A	41.2	386.4	437.4	765.3T	N/A	N/A
5	2	Diag	A529 gr.50	Bolted	2	0.625	A325X	1.125	0.375	165.0	11.5	34.6	34.5S	25.7	21.1
5	1	Leg	A500 gr.CS	Tension	6	1.500	A325X	3.600	N/A	41.2	386.4	437.4	765.3T	N/A	N/A
5	1	Diag	A529 gr.50	Bolted	2	0.625	A325X	1.125	0.375	171.8	10.6	34.6	34.5S	25.7	21.1
4	3	Leg	A500 gr.CS	Tension	6	1.500	A325X	3.600	N/A	41.7	505.5	574.2	765.3T	N/A	N/A
4	3	Diag	A529 gr.50	Bolted	2	0.625	A325X	1.125	0.375	178.6	12.9	45.6	34.5S	34.1	28.1
4	2	Leg	A500 gr.CS	Tension	6	1.500	A325X	3.600	N/A	41.7	505.5	574.2	765.3T	N/A	N/A
4	2	Diag	A529 gr.50	Bolted	2	0.625	A325X	1.125	0.375	185.5	12.0	45.6	34.5S	34.1	28.1
4	1	Leg	A500 gr.CS	Tension	6	1.500	A325X	3.600	N/A	41.7	505.5	574.2	765.3T	N/A	N/A
4	1	Diag	A529 gr.50	Bolted	2	0.625	A325X	1.125	0.375	192.5	11.1	45.6	34.5S	34.1	28.1

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Engineer: AS

3	3	Leg	A500	gr.CS	Tension	6	1.500	A325X	3.600	N/A	41.7	505.5	574.2	765.3T	N/A	N/A
3	3	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	174.6	15.9	54.8	34.5S	34.1	20.4
3	2	Leg	A500	gr.CS	Tension	6	1.500	A325X	3.600	N/A	41.7	505.5	574.2	765.3T	N/A	N/A
3	2	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	180.6	14.8	54.8	34.5S	34.1	20.4
3	1	Leg	A500	gr.CS	Tension	6	1.500	A325X	3.600	N/A	41.7	505.5	574.2	765.3T	N/A	N/A
3	1	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	186.8	13.9	54.8	34.5S	34.1	31.1
2	3	Leg	A500	gr.CS	Tension	6	1.500	A325X	3.600	N/A	41.7	505.5	574.2	765.3T	N/A	N/A
2	3	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	170.2	19.2	63.9	34.5S	34.1	34.2
2	2	Leg	A500	gr.CS	Tension	6	1.500	A325X	3.600	N/A	41.7	505.5	574.2	765.3T	N/A	N/A
2	2	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	175.5	18.0	63.9	34.5S	34.1	34.2
2	1	Leg	A500	gr.CS	Tension	6	1.500	A325X	3.600	N/A	41.7	505.5	574.2	765.3T	N/A	N/A
2	1	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	180.9	17.0	63.9	34.5S	34.1	34.2
1	2	Leg	A500	gr.CS	Tension	6	1.500	A325X	3.600	N/A	31.3	534.5	574.2	765.3T	N/A	N/A
1	2	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	181.7	20.8	79.0	34.5S	42.7	42.8
1	2	Horiz	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	179.7	15.0	54.8	34.5S	34.1	31.1
1	2	SecH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	133.0	23.3	45.6	17.2S	19.5	21.8
1	2	SecD1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	197.5	10.6	45.6	17.2S	19.5	21.8
1	2	PlanH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	227.5	9.3	54.8	17.2S	19.5	24.8
1	1	Leg	A500	gr.CS	Tension	6	1.500	A325X	3.600	N/A	31.3	534.5	574.2	765.3T	N/A	N/A
1	1	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	186.8	19.7	79.0	34.5S	42.7	42.8
1	1	Horiz	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	187.7	13.7	54.8	34.5S	34.1	31.1
1	1	SecH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	140.7	20.8	45.6	17.2S	19.5	21.8
1	1	SecD1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	202.5	10.1	45.6	17.2S	19.5	21.8
1	1	PlanH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	240.6	8.4	54.8	17.2S	19.5	24.8



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 Engineer: AS

Section N: LEG REACTION DATA

Load Combination	Max Envelope				
Wind Direction	Maximum				
	Force-Y Download (Kips)	Force-Y Uplift (Kips)	Shear-X (Kips)	Shear-Z (Kips)	Max Shear (Kips)
	552.17	480.60			48.83



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Engineer: AS

Section O: TOWER FOUNDATION DATA

Load Combination			Max Envelope				
Wind Direction			Maximum				
Axial Load	Shear Load-X	Shear Load-Z	Total Shear	Moment-X	Moment-Y	Moment-Z	Total Moment
(Kips)	(Kips)	(Kips)	(Kips)	(Kipsft)	(Kipsft)	(Kipsft)	(Kipsft)
70.29	40.15	69.55	80.31	11395.11	-1.79	-6580.02	13158.46
70.29	40.15	69.55	80.31	11395.11	-1.79	-6580.02	13158.46

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Contract: 242258

Project: 265 FT RTL TOWER

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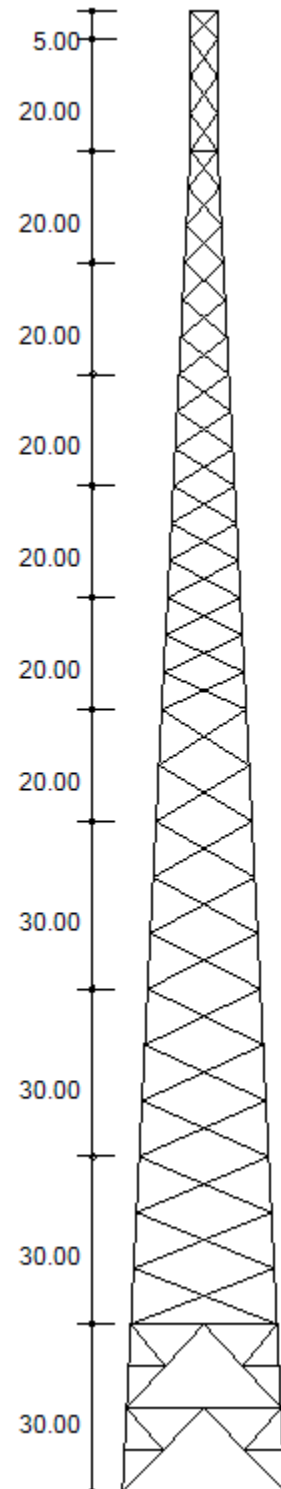
Revision: 0

Site: KIRKSEY- KY

Engineer: AS

DESIGN SPECIFICATION

Sct.	Length (ft)	Top W. (in)	Bot Width (in)
1	30.00	313.97	349.97
2	30.00	277.97	313.97
3	30.00	241.97	277.97
4	30.00	205.97	241.97
5	20.00	181.97	205.97
6	20.00	156.24	181.97
7	20.00	132.24	156.24
8	20.00	107.32	132.24
9	20.00	83.32	107.32
10	20.00	58.40	83.32
11	20.00	57.53	58.40
12	5.00	56.99	57.53



MAXIMUM BASE REACTIONS

Download (Kips)	552.2
Uplift (Kips)	480.6
Shear (Kips)	48.8

Customer: SOUTHERN TOWERS, LP
 Project: 265 FT RTL TOWER
 Site: KIRKSEY, KY
 Engr. File: 242258
 Build Code: ANSI/TIA-222-H-2016



Mat Foundation

ver.3.0.3

Design Parameters

Description	Load Case					
	1	2	3	4	5	Service
Total Moment, ft-kips	13,157.22	13,158.46	1,875.62	1,737.69	1,736.41	4,290.10
Total Shear, kips	80.29	80.31	10.59	8.69	8.69	26.25
Total Tower Wt, kips	93.70	70.29	243.09	93.66	70.26	78.06
Max. Uplift, kips	472.85	480.60	.00	37.58	45.33	138.59
Shear, kips	43.75	44.18	44.18	3.61	4.04	13.43
Max Download, kips	552.17	544.41	154.01	99.96	92.13	195.82
Shear	48.83	48.40	10.83	7.07	6.63	16.96
Soil L.F.	1.20	0.90	1.20	1.20	0.90	1.00
Concrete L.F.	1.20	0.90	1.20	1.20	0.90	1.00

Foundation	
Ht. AGL, ft	0.50
Depth, ft.	5.75
Tower	
Face Width, ft	29.16
Offset, in	54.00
Soil	
Blow Count	N/A
Inplace Unit Wt, pcf	110.00
Submerged Unit Wt, pcf	60.00
Friction Angle, ϕ , deg.	30.00
Cohesion, ksf	N/A
Uplift Angle, deg.	30.00
Water Depth, ft	None
Ult Bearing Capacity, ksf	6.00

Mat	
Thickness, ft	2.00
Width, ft	36.00
EA, in	18.00
Batter, in/ft	0.00

Pier	
Height, ft	4.25
Diameter, ft	3.50
No. Piers	3
Shape	Round

Anchor Bolts	
Diameter, in	1.5000
No.	6
Length, in	74.00
Bolt Circle, in	20.00
Projection, in	9.00

Pocket	
Diameter, in	N/A
Thickness, ft	N/A

Concrete	
28 Day Strength, ksi	4.50
Dry Unit Wt, pcf	150.00
Wet Unit Wt, pcf	88.00

Rebar Fy	
Vertical, ksi	60.00
Circular, ksi	60.00
Horizontal, ksi	60.00

Results

ϕM_N – Parallel Axis 14,270.94 ft-kips
 ϕM_N – Diagonal Axis 14,960.76 ft-kips
 Moment – Interaction Ratio 0.981
 ϕV_N – Lateral Load 238.14 kips
 Lateral Load – Interaction Ratio 0.337

Final Mat Dimension : 36.00 x 36.00 x 2.00 ft. thick w/ (3) 3.50 ft. Dia. Piers

Final Pocket Dimension : Pockets not required

Total Volume of Concrete : 100.5 yd³

Designed By: AS
 Date: 20 January, 2023 @ 10:49 AM

ENGINEERING
 CHECKED BY: SY
 01/20/2023

Customer: SOUTHERN TOWERS, LP
 Project: 265 FT RTL TOWER
 Site: KIRKSEY, KY
 Engr. File: 242258
 Build Code: ANSI/TIA-222-H-2016



Mat Foundation

ver.3.0.3

OTM Capacity

Controlling Load Case: 2 [Wind w/Min. Dead Load]
 Foundation Width = 36.00 ft
 $M_U = 14,005.9$ ft-kips

	ϕM_N , ft-kips	x, ft	N	σ_{ur}
Parallel	14,270.9	5.743	0.160	6.00
Diagonal	14,960.8	14.379	0.282	6.00

$\phi M_N = 14,270.94$ ft-kips IRatio = 0.981
 $\phi V_N = 238.14$ kips IRatio = 0.337

Mat Design

$\gamma_c = 123.91$ pcf

Exterior Slab	x, ft	N	σ_R , ksf	P_s , kips	P_{su} , kips	Moment, ft-kips/ft		Shear, kips/ft	
						DownLoad Side	Uplift Side	Download Side	Uplift Side
Parallel	6.285	0.175	4.11	23.23	0.00	26.58	8.79	13.58	3.92
Diagonal	15.897	0.312	3.68	23.23	0.00	120.02	41.95	24.15	8.78

Interior Slab	Moment, ft-kips/ft			Shear, kips/ft		
	DownLoad Side	Uplift Side	Download Side	Uplift Side	Soil Pressure Termination	
	27.47	98.81	6.54	9.98	7.40	

Punching Shear	Download			Uplift			Description
	Interior	Edge	Corner	Interior	Edge	Corner	
b_o , ft	18.74	16.21	13.19	16.08	14.88	12.52	2-Way Shear
V_{su} , psi	143.05	173.22	223.29	144.28	162.48	204.10	
ϕV_c , psi	228.08	228.08	228.08	228.08	228.08	228.08	
IR	0.63	0.76	0.98	0.63	0.71	0.89	
M_{ut} , ft-kips	124.5			112.7			Moment transfer to slab
B_e , ft	8.2			7.8			
M_u , ft-kips/ft	15.2			14.5			
Edge Distances: a = 5.66 ft. b = 3.42 ft. c = 5.08 ft.							

Summary	Max. Value	Utilization
Slab Moment, ft-kips/ft	120.02	0.986
Slab Shear, kips/ft	24.15	0.929
Punching Shear, psi	223.29	0.979
Soil Bearing Required, σ_{UR} , ksf	5.48	0.913

Mat Reinforcement	
Min. Steel Area (Strength)	1.345 in ² /ft.
Min. Steel Area (Temperature)	.259 in ² /ft.
Steel Strain Actual	0.013
Minimum Steel Strain Required	0.005

82 - #7 Horizontal bars equally spaced @5.26 in., each way, top and bottom, total of 328, $A_s = 1.370$ in²/ft

Designed By: AS
 Date: 20 January, 2023 @ 10:49 AM

Customer: SOUTHERN TOWERS, LP
Project: 265 FT RTL TOWER
Site: KIRKSEY, KY
Engr. File: 242258
Build Code: ANSI/TIA-222-H-2016



Mat Foundation

ver.3.0.3

Pier Design

Controlling Load Case: 1 [Wind w/Max. Dead Load]

C = 552.17 kips	Vc = 48.83 kips	Mc = 207.53 ft-kips
T = 472.85 kips	Vt = 43.75 kips	Mt = 185.94 ft-kips
Fy = 60.00 ksi	Fyt = 60.00 ksi	L.F. = 1.00
H = 42.00 in.	Ds = 33.00 in.	F'c = 4.50 ksi
U = 1.00	Irs = Round	

*** NOTE: Pier cross section is Round ***

SUMMARY OF ANALYSIS

Minimum area of steel required	= 13.941 in ²	(Rhomin = 0.0101)
Area of steel provided.	= 13.991 in ²	(Rhoactual = 0.0101)
Maximum steel area limit	= 110.836 in ²	(Rhomax = 0.0800)

(14) #9 Vertical Bars equally spaced w/ #4 Circular Ties @ 3" on center.

CIRCULAR TIE DATA

Size	Spacing
3	6.3
4	11.4
5	12.0
6	12.0

Use spacing shown or maximum tie spacing specified in ACI 318, Section 7.10.5 for compression reinforcement, whichever is less.

DEVELOPMENT LENGTH MODIFIERS FOR BAR DEVELOPMENT

Modifier for tension development = 1.000

Modifier for compression development = 0.180

REQUIRED Ld = MODIFIER * BASIC Ld * ACI 318 MODIFIERS, (12 in. min.)

Designed By: AS
Date: 20 January, 2023 @ 10:49 AM

File no : 242258

Customer: **SOUTHERN TOWERS, LP**

Date 01/20/23

By: AS

Description: **265 FT RTL TOWER**

Page 1

Chk: _____

KIRKSEY, KY

Ver. 11/16/01

FACTORED REACTIONS / LEG

Tower Type: RT

COMPRESSION = 552.17 k (6) - 1.5 " dia A.B. per leg
 UPLIFT = 480.60 k f'_c = 4,500 psi
 SHEAR = 48.83 k f_y = 60,000 psi

SOIL PARAMETERS

A) Depth neglected for skin friction = Top 2.0 ft and Bottom 4.0 ft for download.

B) Average ultimate skin shear for uplift:

2.0 ft to 12.0 ft depth = 350 psf, and 12.0 ft to 32.0 ft depth = 725 psf, and 32.0 ft to 42.0 ft depth = 1600 psf, and 42.0 ft to 47.0 ft depth = 2000 psf.

C) Average ultimate skin shear for download:

2.0 ft to 12.0 ft depth = 550 psf, and 12.0 ft to 32.0 ft depth = 1100 psf, and 32.0 ft to 42.0 ft depth = 2400 psf, and 42.0 ft to 43.0 ft depth = 3000 psf.

D) Ultimate net end bearing at 47.0 ft = 15.00 ksf.

E) Groundwater table at 43.0 ft below ground.

USE 4'- 0" DIAMETER AND 47'- 0" DEEP DRILLED PIER WITH 0'- 6" CAP

Perimeter = 12.57 ft Area = 12.57 ft²

Total Download = 552.17 + [1.2 x 0.15 - 0.75 x 0.120] x 47 x 12.57 =
 = 605.9 k

Tension Capacity = 12.57 x (43.5 x 0.15 + 4.0 x 0.09) x 0.90 +
 12.57 x (0.350 x 10.0 + 0.725 x 20.0 + 1.600 x 10.0 + 2.000 x 5.0) x 0.75 =
 77.9 + 414.8 = 492.7 k
 492.7 >= 480.60 OK

Comp. Capacity = 12.57 x 15.00 x 0.75 +
 12.57 x (0.550 x 10.0 + 1.100 x 20.0 + 2.400 x 10.0 + 3.000 x 1.0) x 0.75 =
 141.4 + 513.8 = 655.2 k
 655.2 >= 605.9 OK

LATERAL - SEE ATTACHED CALCULATIONS USING WIGGINS METHOD

Max M = 529.76 ft-k Max V = 48.83 k

REINFORCEMENT - SEE ATTACHED SHAFT PROGRAM

USE 16 - # 10 BARS VERTICAL WITH *
 # 5 TIES AT 6" IN TOP 7.0 FT AND AT
 12 " IN REST OF PIER

LAP SPLICE LENGTH = 45 IN {36.0 in Cage Diameter}
CONCRETE VOLUM 12.57 x 47.5 / 27 = 22.1 cu yds / pier

Drilled Pier Analysis

 ** WIGGINS METHOD **

 ** DETERMINE MAXIMUM LATERAL SOIL PRESSURE **
 ** AND MAXIMUM MOMENT IN THE SHAFT FOR **
 ** A DRILLED PIER FOUNDATION **

 ***** Fri Jan 20 10:59:15 2023 *****
 Ver. 2.3 NT

FILE NO.- 242258
 ENGR.- AS
 DESCR.- SOUTHERN TOWERS, LP 265 FT RTL

FORMULAS USED

$$S1 = \frac{6 \cdot P \cdot (1+N)}{D \cdot L \cdot (1-N) \cdot (1-N)}$$

$$S2 = \frac{(N+3) \cdot (N+3) \cdot S1}{8 \cdot (N+1) \cdot (N+2)}$$

$$K = \frac{1 - (N \cdot N)}{2 \cdot (2+N)}$$

$$Y = \frac{L \cdot (1-K) - NL}{2}$$

$$M = P \cdot (NL + 5/8 \cdot Y)$$

$$V = S1 \cdot D \cdot K \cdot L / 2 \quad \text{or} \quad P \quad \text{whichever is greater}$$

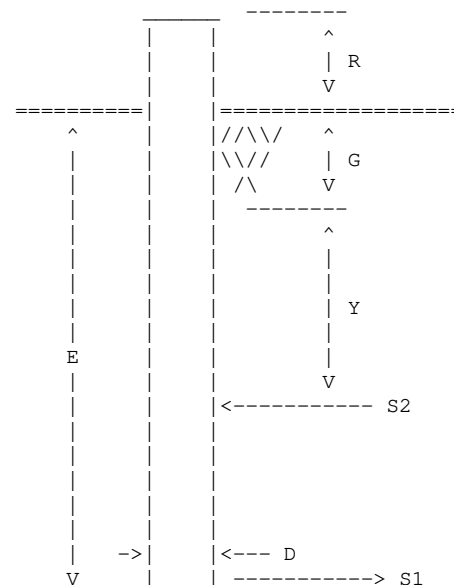
$$L = (MA/P) + R + E$$

$$NL = (MA/P) + R + G$$

$$N = NL / L$$

$$SP1 = S1 / E$$

$$SP2 = S2 / (Y + G)$$



Diameter of Pier = D = 4.00 ft
 Projection Above Grade = R = .50 ft
 Embedment Depth = E = 38.00 ft
 Depth of Soil Ignored = G = 2.00 ft

Equivalent Length of Pier = L = 38.50 ft
 Length for NO Soil Resistance = NL = 2.50 ft
 Applied Moment at Top of Pier = MA = .00 ft-k
 Shear at Top of Pier = P = 48.83 kips

MAXIMUM LATERAL SOIL PRESSURES

MAXIMUM VALUES IN SHAFT

K = .2411
 Y = 13.36 ft
 S1 = 2.317 ksf
 S2 = 1.237 ksf
 SP1 = 61 psf/ft
 SP2 = 81 psf/ft

M = 529.76 ft-k
 V = 48.83 kips

Drilled Pier Analysis

242258
SOUTHERN TOWERS,

**
** COMPARISION DATA **
**

BROMS ----->

SAND		CLAY	
PHI =	30.0 degrees	C =	1.00 ksf
DENSITY =	100.00 pcf	E =	17.95 ft
E =	17.25 ft	Max. M =	383.63 ft-k
Max. M =	361.86 ft-k	Max. V =	83.10 kips
Max. V =	124.08 kips		
Ls =	13.861 ft		

EIA REV. E NORMAL SOIL -----> E = 13.65 ft

EIA REV. F NORMAL SOIL -----> E = 17.50 ft

SHAFT REINFORCING PROGRAM VER. 91.7
 =====

DESIGNED BY: AS
 ENG. FILE NO.: 242258
 DATE: 01/20/23

CUSTOMER: SOUTHERN TOWERS, LP
 DESCRIPTION: 265 FT RTL TOWERKIRKSEY, KY

INPUT DATA
 =====

C = 552.17 Kips	Vc = 48.83 Kips	Mc = 529.76 Ft-K
T = 480.60 Kips	Vt = 48.83 Kips	Mt = 529.76 Ft-K
Fy = 60.00 Ksi	Fyt = 60.00 Ksi	L.F. = 1.00
H = 48.00 In.	Ds = 36.00 In.	F'c = 4.50 Ksi
U = 1.00	Irs = 1	

*** SHAFT CROSS SECTION IS ROUND ***

SUMMARY OF ANALYSIS
 =====

Minimum area of steel req'd. = 18.21 sq.in. (Rhomin = 0.0101)
 Maximum steel area limit = 144.76 sq.in. (Rhomax = 0.0800)

CIRCULAR TIE DATA
 =====

For No. 3 circular ties, Smax = 5.50 Inches
 For No. 4 circular ties, Smax = 10.00 Inches
 For No. 5 circular ties, Smax = 15.50 Inches
 For No. 6 circular ties, Smax = 17.72 Inches

=====

DLMT = MODIFIER FOR TENSION DEVELOPMENT = 1.000
 DLMC = MODIFIER FOR COMPRESSION DEVELOPMENT = .313
 REQUIRED Ld = MODIFIER * BASIC Ld * ACI 318 MODIFIERS (12 in. min.)
 DLMT = MODIFIER FOR TENSION DEVELOPMENT = 1.000
 DLMC = MODIFIER FOR COMPRESSION DEVELOPMENT = .339
 REQUIRED Ld = MODIFIER * BASIC Ld * ACI 318 MODIFIERS (12 in. min.)

KENTUCKY RSA No. 1
PARTNERSHIP d/b/a

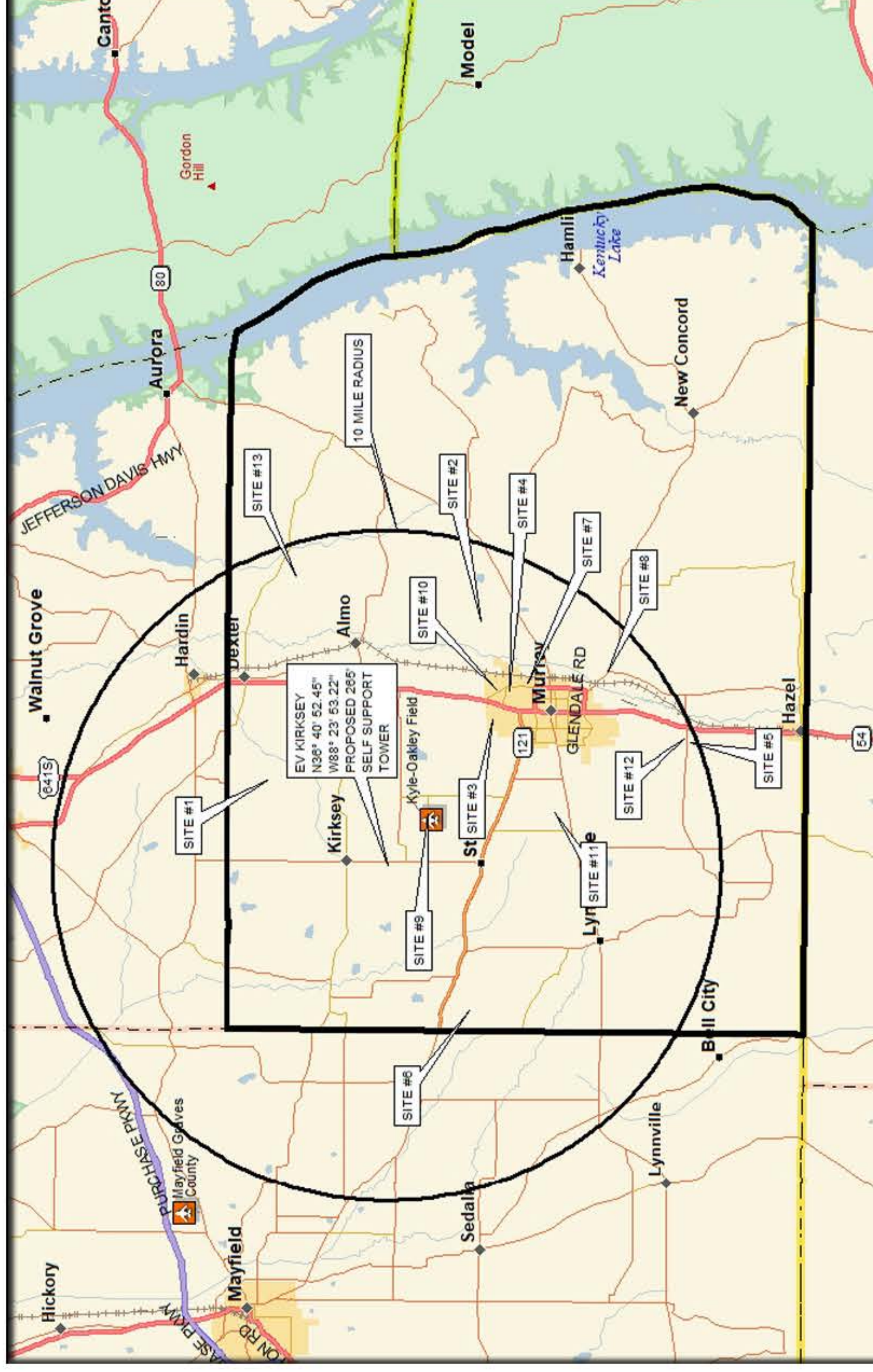


GPD GROUP, INC.

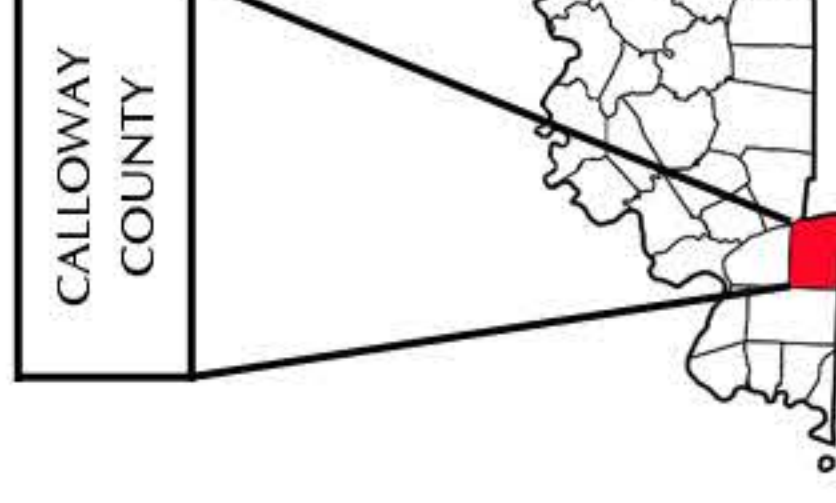


**CITY OF KIRKSEY
CALLOWAY COUNTY, KENTUCKY
VERIZON WIRELESS SITE EV KIRKSEY
TOWER LOCATION EXHIBIT**

BROADCAST AND TRANSMIT STRUCTURE LOCATIONS
DEPICTED ARE ALL KNOWN STRUCTURE SITES THAT
HAVE BEEN REGISTERED WITH THE FEDERAL
COMMUNICATIONS COMMISSION IN CALLOWAY
COUNTY WITHIN 10 MILES OF THE PROPOSED TOWER
LOCATION ON OR BEFORE OCTOBER 25, 2022



MAP NOT TO SCALE



Kentucky

- SITE #1: FCC# 1016248 CROWN CASTLE SOUTH, LLC N36°43'56.7", W88°21'07.3"
- SITE #2: FCC# 1030663 CROWN CASTLE GT COMPANY, LLC N36°38'26.2", W88°16'00.1"
- SITE #3: FCC# 1043903 FOREVER COMMUNICATIONS, INC N36°38'08.0", W88°19'10.0"
- SITE #4: FCC# 1043919 FOREVER COMMUNICATIONS, INC N36°37'42.0", W88°18'04.0"
- SITE #5: FCC# 1044609 VERTICAL BRIDGE S3 ASSETS, LLC N36°32'58.0", W88°19'54.0"
- SITE #6: FCC# 1210819 CROWN CASTLE COMMUNICATIONS, LLC N36°38'43.9", W88°28'32.2"
- SITE #7: FCC# 1215626 MURRAY ELECTRIC SYSTEM N36°37'13.2", W88°18'00.1"

- SITE #8: FCC# 1215847 SBA PROPERTIES, LLC N36°35'09.3", W88°17'36.1"
- SITE #9: FCC# 1215976 MURRAY CALLOWAY CO AIRPORT BOARD N36°39'49.2", W88°22'13.1"
- SITE #10: FCC# 1218553 SBA PROPERTIES, LLC N36°38'03.0", W88°18'11.1"
- SITE #11: FCC# 1225024 SBA PROPERTIES, LLC N36°36'32.5", W88°22'11.1"
- SITE #12: FCC# 1270782 SBA MONARCH TOWERS III, LLC N36°33'09.7", W88°19'46.3"
- SITE #13: FCC# 1303887 DIAMOND TOWERS V, LLC N36°43'13.0", W88°14'32.4"



Form 7460-2 for ASN: 2020-ASO-36927-OE

Construction	Owner of Structure: Kentucky RSA No. 1 Partnership
Construction Type	
Construction Location / Height	
Latitude:	36° 40' 52.45" N
Longitude:	88° 23' 53.22" W
Horizontal Datum:	NAD 83
Site Elevation (SE):	(nearest foot)
Structure Height (AGL):	(nearest foot)
Site Elevation Determined By:	
Construction Notifications	
Construction Start Date:	Abandon Date:
Estimated End Date:	Dismantled Date:
Greatest Height Reached Date:	M&L Change Date:
	Extension Request Date: 08/03/2022
Antenna Requiring FCC License	
ASR Number:	FCC ASR Registration
FCC Permit Applied Date:	
FCC Permit Issued Date:	
Marking and Lighting	
Marking and Lighting:	None
Estimated Date ADLS will be installed:	
Estimated Date ADLS will be operational:	
Date ADLS enabled:	
Date ADLS discontinued:	
Latest Supplemental Case Note	
Latest Supplemental Case Note:	
Comments:	





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

Aeronautical Study No.
2020-ASO-36927-OE

Issued Date: 08/19/2022

Network Regulatory
Kentucky RSA No. 1 Partnership
5055 North Point Pkwy
Alpharetta, GA 30005

**** Extension ****

A Determination was issued by the Federal Aviation Administration (FAA) concerning:

Structure:	Antenna Tower EV Kirksey - A - (15287337)
Location:	Kirkesy, KY
Latitude:	36-40-52.45N NAD 83
Longitude:	88-23-53.22W
Heights:	565 feet site elevation (SE) 270 feet above ground level (AGL) 835 feet above mean sea level (AMSL)

In response to your request for an extension of the effective period of the determination, the FAA has reviewed the aeronautical study in light of current aeronautical operations in the area of the structure and finds that no significant aeronautical changes have occurred which would alter the determination issued for this structure.

Accordingly, pursuant to the authority delegated to me, the effective period of the determination issued under the above cited aeronautical study number is hereby extended and will expire on 02/19/2024 unless otherwise extended, revised, or terminated by this office. You must adhere to all conditions identified in the original determination.

This extension issued in accordance with 49 U.S.C., Section 44718 and, if applicable, Title 14 of the Code of Federal Regulations, part 77, concerns the effect of the 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.

A copy of this extension 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 our office at (817) 222-5928, or chris.smith@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2020-ASO-36927-OE.

Signature Control No: 458229635-548499121

Chris Smith
Specialist

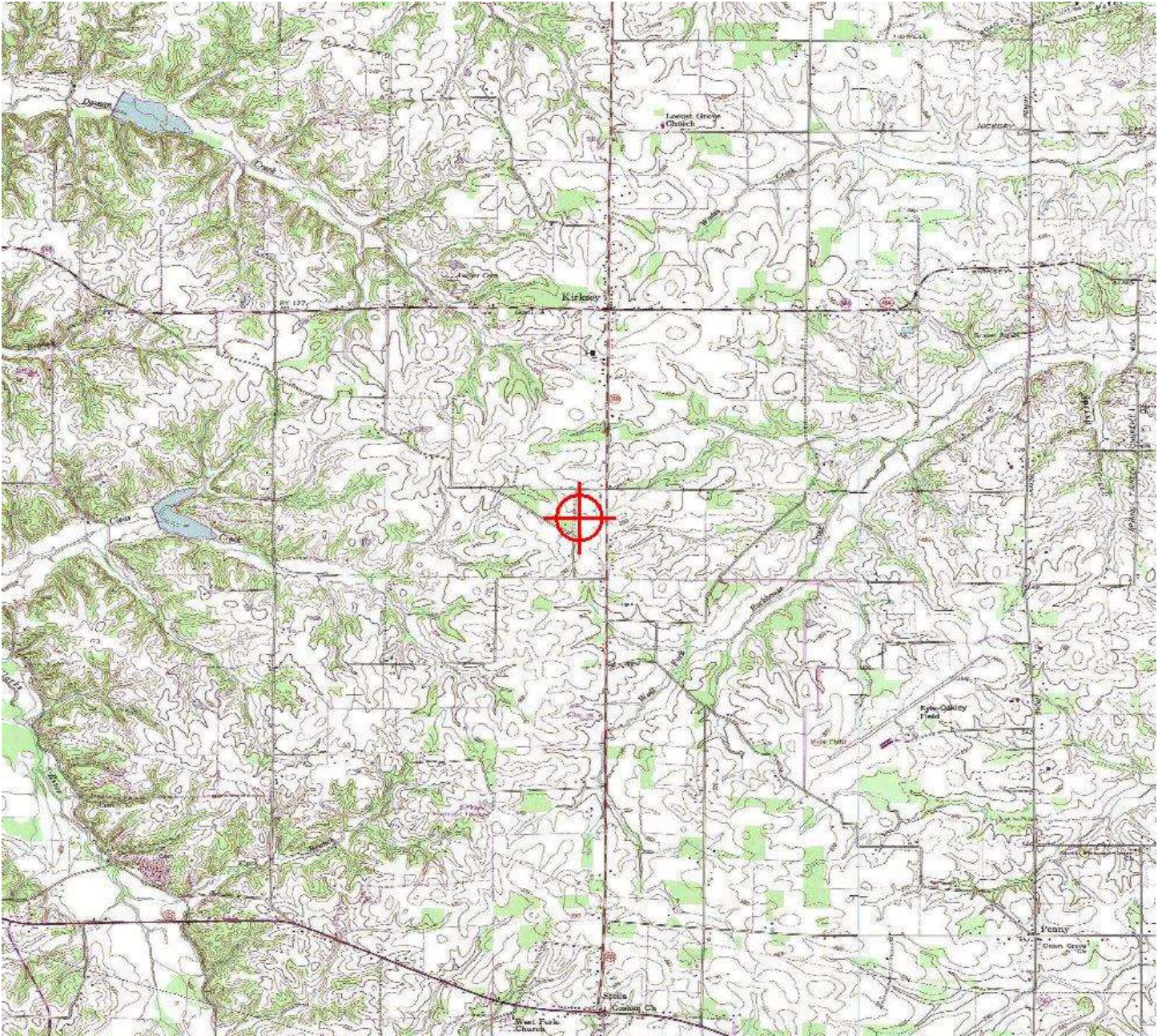
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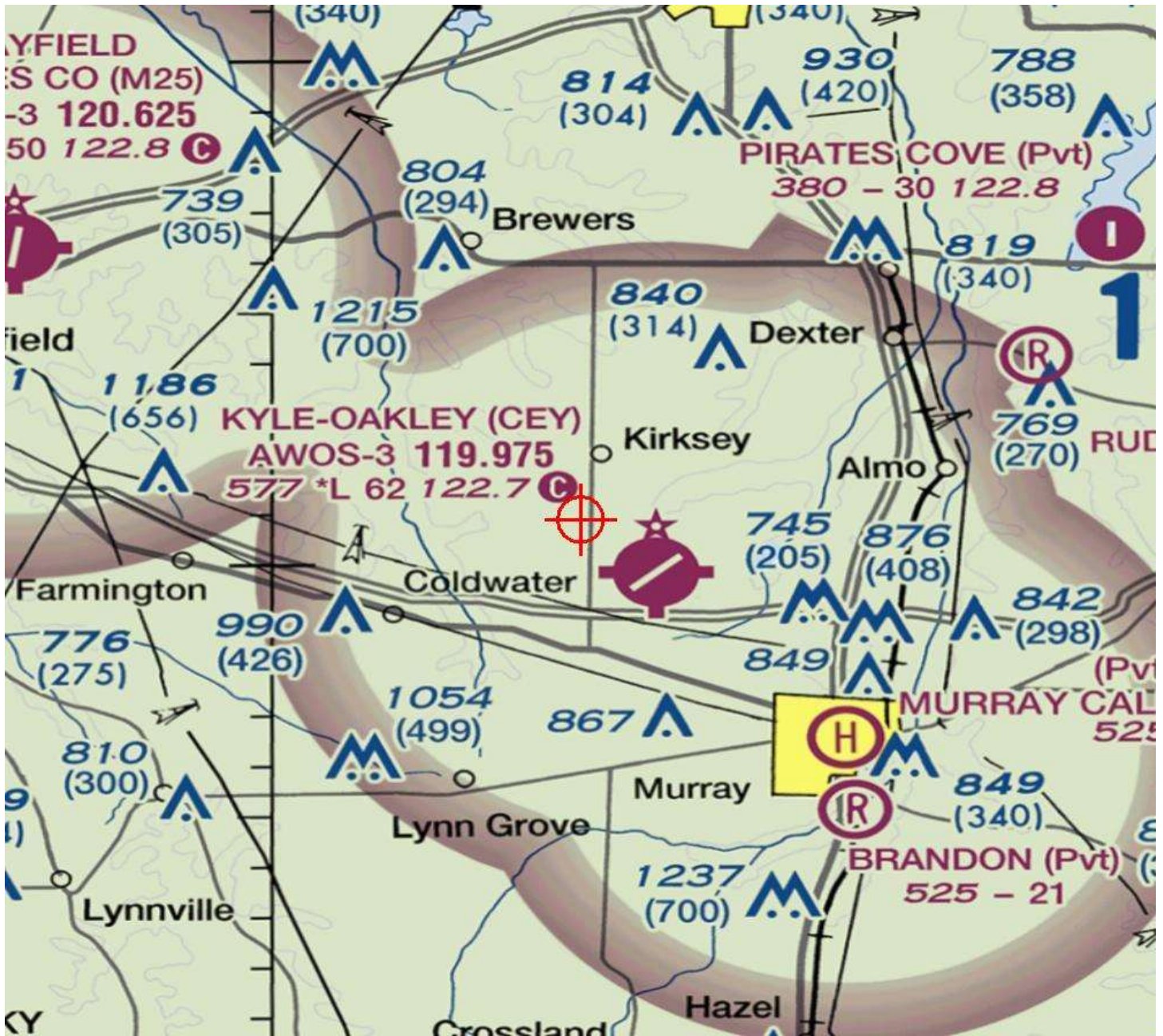
Attachment(s)

Map(s)

cc: FCC

TOPO Map for ASN 2020-ASO-36927-OE







APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

JURISDICTION

602 KAR 50:030

Section 1. The commission has zoning jurisdiction over that airspace over and around the public use and military airports within the Commonwealth which lies above the imaginary surface that extends outward and upward at one (1) of the following slopes:

- (1) 100 to one (1) for a horizontal distance of 20,000 feet from the nearest point of the nearest runway of each public use airport and military airport with at least one (1) runway 3,200 feet or more in length; or
- (2) fifty (50) to one (1) for a horizontal distance of 10,000 feet from the nearest point of the nearest runway of each public use and military airport with its longest runway less than 3,200 feet in length.

Section 2. The commission has zoning jurisdiction over the use of land and structures within public use airports within the state.

Section 3. The commission has jurisdiction from the ground upward within the limits of the primary and approach surfaces of each public use airport and military airport as depicted on airport zoning maps approved by the Kentucky Airport Zoning Commission.

Section 4. The Commission has jurisdiction over the airspace of the Commonwealth that exceeds 200 feet in height above the ground.

Section 5. The owner or person who has control over a structure which penetrates or will penetrate the airspace over which the Commission has Jurisdiction shall apply for a permit from the Commission in accordance with 602 KAR 50:090.

INSTRUCTIONS

1. "Alteration" means to increase or decrease the height of a structure or change the obstruction marking and lighting.
2. "Applicant" means the person who will own or have control over the completed structure.
3. "Certification by Applicant" shall be made by the individual who will own or control the completed structure; or a partner in a partnership; or the president or authorized officer of a corporation company, or association; or the authorized official of a body politic; or the legally designated representative of a trustee, receiver, or assignee.
4. Prepare the application and forward to the Kentucky Dept. of Aviation, ATTN: Airport Zoning Commission, 90 Airport Drive, Frankfort KY 40601. For questions, telephone 502-782-4043.
5. The statutes applicable to the Kentucky Airport Commission are KRS 183.861 to 183.990 and the administrative regulations are 602 KAR Chapter 50.
6. When applicable, attach the following appendices to the application:

Appendix A. A 7.5 minute quadrangle topographical map prepared by the U.S. Geological Survey and the Kentucky Geological Survey with the exact location of the structure which is the subject of the application indicated thereon. (*The 7.5 minute quadrangle map may be obtained from the Kentucky Geological Survey, Department of Mines and Minerals, Lexington, KY 40506.*)

Appendix B. For structures on or very near to property of a public use airport, a copy of the airport layout drawing (ALP) with the exact location of the structure which is the subject of this application indicated thereon. (*The ALP may be obtained from the Chairperson of the local airport board or the Kentucky Airport Zoning Commission.*)

Appendix C. Copies of Federal Aviation Administration Applications (*FFA Form 7460-1*) or any orders issued by the manager, Air Traffic Division, FAA regional office.

Appendix D. If the applicant has indicated in item number 7 of the application that the structure will not be marked or lighted in accordance with the regulations of the Commission, the applicant shall attach a written request for a determination by the commission that the marking and lighting are not necessary. The applicant shall specifically state the reasons that the absence of marking and lighting will not impair the safety of air navigation.

Appendix E. The overall height in feet of the overhead transmission line or static wire above ground level or mean water level with span length 1,000 feet and over shall be depicted on a blueprint profile map.

PENALTIES

1. Persons failing to comply with the Airport Zoning Commission statutes and regulations are liable for a fine or imprisonment as set forth in KRS 183.990(3).
2. Applicants are cautioned: Noncompliance with Federal Aviation Administration Regulations may provide for further penalties.



KENTUCKY TRANSPORTATION CABINET
 KENTUCKY AIRPORT ZONING COMMISSION

TC 55-2
 Rev. 06/2020
 Page 2 of 2

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

APPLICANT (name) Verizon Wireless		PHONE 773-987-5299	FAX	KY AERONAUTICAL STUDY #	
ADDRESS (street) South of 434 Fire Station Drive		CITY Kirksey		STATE KY	ZIP 42054
APPLICANT'S REPRESENTATIVE (name) William Faber		PHONE 773-987-5299	FAX		
ADDRESS (street) 210 Denell Dr		CITY Crete		STATE IL	ZIP 60417
APPLICATION FOR <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration <input type="checkbox"/> Existing				WORK SCHEDULE	
DURATION <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary (months days)				Start End	
TYPE <input type="checkbox"/> Crane <input type="checkbox"/> Building <input checked="" type="checkbox"/> Antenna Tower <input type="checkbox"/> Power Line <input type="checkbox"/> Water Tank <input type="checkbox"/> Landfill <input type="checkbox"/> Other		MARKING/PAINTING/LIGHTING PREFERRED <input type="checkbox"/> Red Lights & Paint <input type="checkbox"/> White- medium intensity <input type="checkbox"/> White- high intensity <input type="checkbox"/> Dual- red & medium intensity white <input type="checkbox"/> Dual- red & high intensity white <input type="checkbox"/> Other			
LATITUDE 36°40'52.45"N		LONGITUDE 88°23'53.22"W Calloway		DATUM <input type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> Other	
NEAREST KENTUCKY City County Calloway		NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT Murray-Calloway Co. Airport, 544 Airfield Ln, Murray, KY 42071			
SITE ELEVATION (AMSL, feet) 564		TOTAL STRUCTURE HEIGHT (AGL, feet) 270		CURRENT (FAA aeronautical study #)	
OVERALL HEIGHT (site elevation plus total structure height, feet) 834				PREVIOUS (FAA aeronautical study #)	
DISTANCE (from nearest Kentucky public use or Military airport to structure) 2 miles				PREVIOUS (KY aeronautical study #)	
DIRECTION (from nearest Kentucky public use or Military airport to structure) northwest					
DESCRIPTION OF LOCATION (Attach USGS 7.5 minute quadrangle map or an airport layout drawing with the precise site marked and any certified survey.) North of the intersection of Blue Jay Dr and Fire Station Rd					
DESCRIPTION OF PROPOSAL Proposed 265' self support tower with 5' lightning rod					
FAA Form 7460-1 (Has the "Notice of Construction or Alteration" been filed with the Federal Aviation Administration?) <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes, when?					
CERTIFICATION (I hereby certify that all the above entries, made by me, are true, complete, and correct to the best of my knowledge and belief.)					
PENALTIES (Persons failing to comply with KRS 183.861 to 183.990 and 602 KAR 050 are liable for fines and/or imprisonment as set forth in KRS 183.990(3). Noncompliance with FAA regulations may result in further penalties.)					
NAME William Faber		TITLE Mr		SIGNATURE 	
				DATE 1-2-23	
COMMISSION ACTION <input type="checkbox"/> Chairperson, KAZC <input type="checkbox"/> Administrator, KAZC					
<input type="checkbox"/> Approved		SIGNATURE		DATE	
<input type="checkbox"/> Disapproved					



KENTUCKY AIRPORT ZONING COMMISSION

ANDY BESHEAR
Governor

Department of Aviation, 90 Airport Road
Frankfort, KY 40601
www.transportation.ky.gov
502-564-0151

JIM GRAY
Secretary

APPROVAL OF APPLICATION

February 16, 2023

Verizon Wireless
Attn: Crystal Swanson
5055 North Point Parkway
Alpharetta, GA 3022

SUBJECT STUDY #:

AS-2022-117-CEY

Murray-Calloway County Airport

APPLICANTS NAME: Verizon Wireless
NEAREST CITY: Kirksey, KY
LATITUDE/LONGITUDE: 36°40'52.45"N, 88°23'53.22"W
HEIGHT (In Feet): 270' AGL / 835' AMSL
CONSTRUCTION PROPOSED: Antenna Tower

NOTES: This proposed Antenna Tower is approx 1.6 nm NW of Kyle Oakley Field. The tower exceeds the 100:1 Slope by 164', the Horizontal Surface by 109', and the 1.58 Nautical Mile Ring Surface by 59'.

FAA DETERMINATION: FAA Study 2020-ASO-36927-OE (extended on 08/19/2022) had a Determination of No Hazard *but* with impact to the circling MDA and within the TPA for Cat C/D aircraft. Med/Dual Lighting required.

This letter is to notify you that the Kentucky Airport Zoning Commission approved your permit application for the construction of a Structure at the Location, Coordinates, and Height as indicated above. Also reference FAA OE/AAA Study 2020-ASO-36927-OE.

This permit is valid for a period of 18 Month(s) from its date of issuance. If construction is not completed within said 18-Month period, this permit shall lapse and be void, and no work shall be performed without the issuance of a new permit.

Contact us with any questions you may have.

Respectfully,

Anthony Adams

Airport Zoning Administrator
Department of Aviation
AirportZoning@ky.gov 502-564-0151 Office



GPD GROUP, INC.:

GPD# 2019737.57

December 8, 2022

GEOTECHNICAL REPORT

Site Name: EV Kirksey

Site Data: Fire Station Drive
Kirksey (Calloway County), Kentucky 42054
Latitude 36° 40' 52.45" N, Longitude 88° 23' 53.22" W
Proposed 265-ft Self-Support Tower

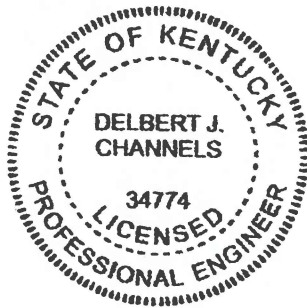
GPD is pleased to submit this **Geotechnical Report** for the aforementioned tower. The purpose of the following report is to summarize the soil conditions encountered during the subsurface exploration at this site and provide geotechnical engineering parameters for the proposed tower foundation system.

We at GPD appreciate the opportunity to provide continuing professional services to you. Please feel free to contact us with any questions or if you need additional assistance.

Respectfully Submitted,


12/08/2022

Delbert J. Channels, P.E.
GPD Group, Inc.



Attachments: Boring Location Plan
Boring Log
Unified Soil Classification System
General Notes

GEOTECHNICAL EXPLORATION

Drilling and soil sampling was performed by Chase Environmental Group, Inc. using a truck-mounted CME-75 drill rig with hollow-stem augers and an automatic SPT hammer. One (1) sample boring was drilled near the proposed tower location to a depth of about fifty (50) feet. Representative samples were obtained by the split-barrel sampling procedure in general accordance with appropriate ASTM standards. In the split-barrel sampling procedure, the number of blows required to advance a standard 2-inch O.D. split-barrel sampler the last 12 inches of the typical total 18-inch penetration by means of a 140-pound hammer with a free fall of 30 inches, is the standard penetration resistance value (N). Sampling depths and penetration distance, plus the standard penetration resistance values, are shown on the attached boring log. The samples were sealed and mailed to our laboratory for soil classification in general accordance with appropriate ASTM standards.

The subsurface conditions encountered at the boring location are indicated on the attached boring log. The stratification boundaries on the boring log represent the approximate location of changes in soil/rock types; in-situ, the transition between materials may be gradual. The boring log includes visual classifications of the materials encountered during drilling as well as the driller's interpretation of the subsurface conditions between samples.

LABORATORY TESTING

The samples were classified in the laboratory based on visual observation, texture and plasticity. The descriptions of the soils indicated on the boring log are in accordance with the enclosed General Notes and the Unified Soil Classification System. Estimated group symbols according to the Unified Soil Classification System are given in the tables below. A brief description of this classification system is attached to this report.

The laboratory testing program consisted of performing the following tests:

- ❖ Natural water content tests (ASTM D-2216)
- ❖ Soil Resistivity (ASTM G-187-12A)
- ❖ Soil pH Test (ASTM D-4972)

Information from these tests was used in conjunction with field penetration test data to evaluate soil strength in-situ, volume change potential, and soil classification. Results of these tests are attached and provided on the boring log.

SOIL RESISTIVITY AND REACTIVITY

Soil resistivity and pH testing was performed as a part of the geotechnical investigation at this site. A composite sample was obtained within the upper 10-ft for laboratory testing. Laboratory resistivity measurements were obtained using a Miller-400A Analog Resistance Meter implementing the 2-electrode method in conjunction with an electrolyte box in accordance with ASTM G-187-12A. It should be noted that the soil samples were saturated for this testing procedure. Based on the laboratory test results, most of the soil is rated "**Corrosive**" with resistivity measurements on average of about **3,800 ohm-cm** (refer to Table 1 below). Additionally, soil pH tests were conducted in accordance with ASTM D-4972. An average soil pH of **3.9** was measured at **21°C** for the surficial soils at the project location.

Table 1: Soil Resistivity Classification System

Resistivity (Ohm-cm)	Soil Type	Corrosion Rating
0 to 1,000	Moist Clay	Extremely Corrosive
1,000 to 3,000	Moist Clay	Highly Corrosive
3,000 to 5,000	Clay	Corrosive
5,000 to 10,000	Silty Clay/Clayey Silt	Moderately Corrosive
10,000 to 20,000	Sandy Silt	Mildly Corrosive
>20,000	Sand/Gravel/Rock	Non-Corrosive

GROUNDWATER

Groundwater was encountered during drilling operations at a depth of about 43 feet below grade as noted on the attached boring log. It should also be noted that fluctuations in the groundwater level can occur and perched water can develop over low permeability soil or rock strata following periods of heavy or prolonged precipitation. Long term monitoring in cased holes or piezometers would be necessary to accurately evaluate the potential range of groundwater conditions on the site.

SEISMIC CONSIDERATIONS

The International Building Code (IBC) requires a site soil profile determination extending to a depth of 100 feet for seismic site classification. The scope of services for this project required that borings be drilled to a maximum depth of about 50 feet. The noted site classification considers that weathered bedrock exists below the maximum depth of subsurface exploration. Based on the available field and laboratory test results and our knowledge and experience with the local site geology, a Seismic Site Classification "D" should be used for design of the structures according to the "International Building Code and Related Codes, Section 1613.5.2 Site Class Definitions.

GEOTECHNICAL RECOMMENDATIONS

Based on the results of this study, it is our opinion that either cast-in-place concrete piers or a shallow foundation system would be appropriate for support of a self-support tower at this site. The following net design parameters may be used to design the proposed foundation system. Factors of safety of 2 and 3 should be applied to the ultimate skin friction and bearing pressure values provided below, respectively. The cohesion, internal angle of friction and unit weight parameters along with the vertical modulus of subgrade reaction, horizontal modulus of subgrade reaction, sliding friction coefficient, and strain values given in the following tables are based on the results of the sample boring, lab testing, published values and our past experience with similar soil types. These values should, therefore, be considered approximate.

Table 2: Self-Support Tower – Drilled Pier – Ultimate Design Parameters

Depth (feet)	USCS	Unit Weight (pcf)	Horizontal Modulus of Subgrade Reaction (pci)	ϵ_{50}	Ultimate Skin Friction Compression ¹ (psf)	Ultimate Skin Friction Tension/Uplift (psf)	Ultimate Bearing Pressure ¹ (psf)	Internal Angle of Friction (Degrees)	Cohesion (psf)
0 – 2 ²	CL	120	Ignore ²	Ignore ²	Ignore ²	Ignore ²	Ignore ²	-	-
2 – 12	CL	120	80	0.007	550	350	6,000	0	1,000
12 – 32	CL	125	160	0.005	1,100	725	12,000	0	2,000
32 – 42	SP	115	90	-	2,400	1,600	15,000	32	0
42 – 50	SP	125/63 ³	180	-	3,000	2,000	21,000	38	0

¹The side resistance to compression forces within one pier diameter length (1D) from the bottom of the pier should be ignored if end bearing resistance is utilized.

²The upper 2-ft or one-half pier diameter length (D/2), whichever is greater, should be ignored due to potential frost effects and construction disturbance considerations.

³Buoyant unit weights should be used below a depth of 43 feet.

Table 3: Self-Support Tower – Shallow Foundation – Ultimate Design Parameters

Depth (feet)	USCS	Unit Weight (pcf)	Ultimate Bearing Pressure (psf)	Sliding Friction Coefficient @ Base	Vertical Modulus of Subgrade Reaction (pci)	Internal Angle of Friction (Degrees)	Cohesion (psf)
0 – 2 ¹	CL	120	Ignore ¹	Ignore ¹	Ignore ¹	-	-
2 – 12	CL	120	6,000	0.35	100	0	1,000

¹The upper 2-ft should be ignored due to potential frost effects and construction disturbance considerations.

The parameters in Table 2 and Table 3 are provided for the design of either cast-in-place concrete piers or a shallow foundation system. In the event that a different foundation or tower type is chosen, these parameters are not considered valid and GPD should be notified immediately to provide appropriate design parameters, as warranted.

EARTHWORK

Where required, all surfaces cut to subgrade elevation or subgrades to receive fill should be proof-rolled under the direction of an on-site geotechnical engineer or their representative. Proof-rolling should be performed with a minimum 20 ton dump truck. Two (2) passes, (1 forward and 1 backward) should be made at normal walking speed. Any soft, loose, yielding, or obviously contaminated zones should be undercut as directed by the engineer.

All backfill placed adjacent to foundations should be select material, as approved by a qualified geotechnical engineer. For all filling operations, the following should be observed:

1. Prior to use, the approved fill material should be tested as outlined in ASTM D-698 to determine the maximum dry density and optimum moisture content for silty or cohesive soils, or ASTM D-4253 and D-4254 for clean granular soils. For each change in borrow material, additional tests will be required.
2. For all fill or backfill used, the fill material should be placed on the approved subgrade in controlled lifts, with each lift compacted to a stable condition, and to a minimum of 98% maximum dry density per ASTM D-698 at a moisture content within 1.5% of optimum for cohesive or silty borrow. Controlled lifts of granular material should be compacted to 80% relative density per ASTM D-4254.
3. All filling operations should be observed by a qualified soils technician with field density tests made, to assure compaction to specification.

Backfill may consist of mixes of natural soil or crushed aggregate meeting one of the following USCS Classifications: GW, GP, GM, GC, SW, SP, SM, SC, CL, ML, or any dual symbol combinations of the preceding. Backfill material should contain a maximum organic content of 1 percent, and a maximum particle size of 3-inches. Excavated site soils are considered acceptable for reuse as structural fill at this project location.

CONSTRUCTION CONSIDERATIONS

Drilled pier foundations should be designed with a minimum shaft diameter of 36 inches to facilitate clean out of the pier excavation. Temporary casing may be required during the pier excavation in order to control possible groundwater seepage and to support the sides of the excavation in weak soil zones. Care should be taken so that the sides and bottom of the excavations are not disturbed during construction. The bottom of the shaft should be free of loose soil or debris prior to reinforcing steel and concrete placement. It is essential that piers designed using the provided properties are cast against native soil. Overexcavation and forming of piers is not permitted.

A concrete slump of at least 6 inches is recommended to facilitate temporary casing removal. It should be possible to remove the casing from a pier excavation during concrete placement provided that the concrete inside the casing is maintained at a sufficient level to resist any earth and hydrostatic pressures outside the casing during the entire casing removal procedure.

QUALIFICATIONS

The analysis and recommendations presented in this report are based upon the data obtained from the boring performed at this site and from other information discussed in this report. This report does not reflect variations that may occur across the site or due to the modifying effects of weather.

This report has been prepared for the exclusive use of **Verizon Wireless** for specific application to the project discussed herein and has been prepared in accordance with generally accepted geotechnical engineering practices. No warranties, either expressed or implied, are intended or made. In the event that changes in the nature or design as outlined in this report are planned, the conclusions and recommendations contained in this report shall not be considered valid unless **GPD** reviews the changes and either verifies or modifies the conclusions of this report in writing.

The scope of services for this project does not include either specifically or by implication, any environmental assessment of the site or identification of contaminated or hazardous materials or conditions. If the owner is concerned about the potential for such contamination, other studies should be undertaken.



815 SUPERIOR AVE., E
SUITE 1812
CLEVELAND, OHIO 44114



NUMBER: 20192031898

SITE NAME: EV KIRKSEY

SITE ADDRESS:
FIRE STATION DRIVE
KIRKSEY, KY 42054

LEASE AREA:
10000 SQ. FT.

PROPERTY OWNER:
ROBERT CRICK
JIMMIE LOUISE CRICK
235 NORSWORTHY RD.
KIRKSEY, KY 42054

SECTION/TOWNSHIP/RANGE
SEC 35, T3, R3E

COUNTY:
CALLOWAY COUNTY

PARCEL:
021-0-0048-E

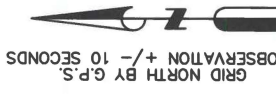
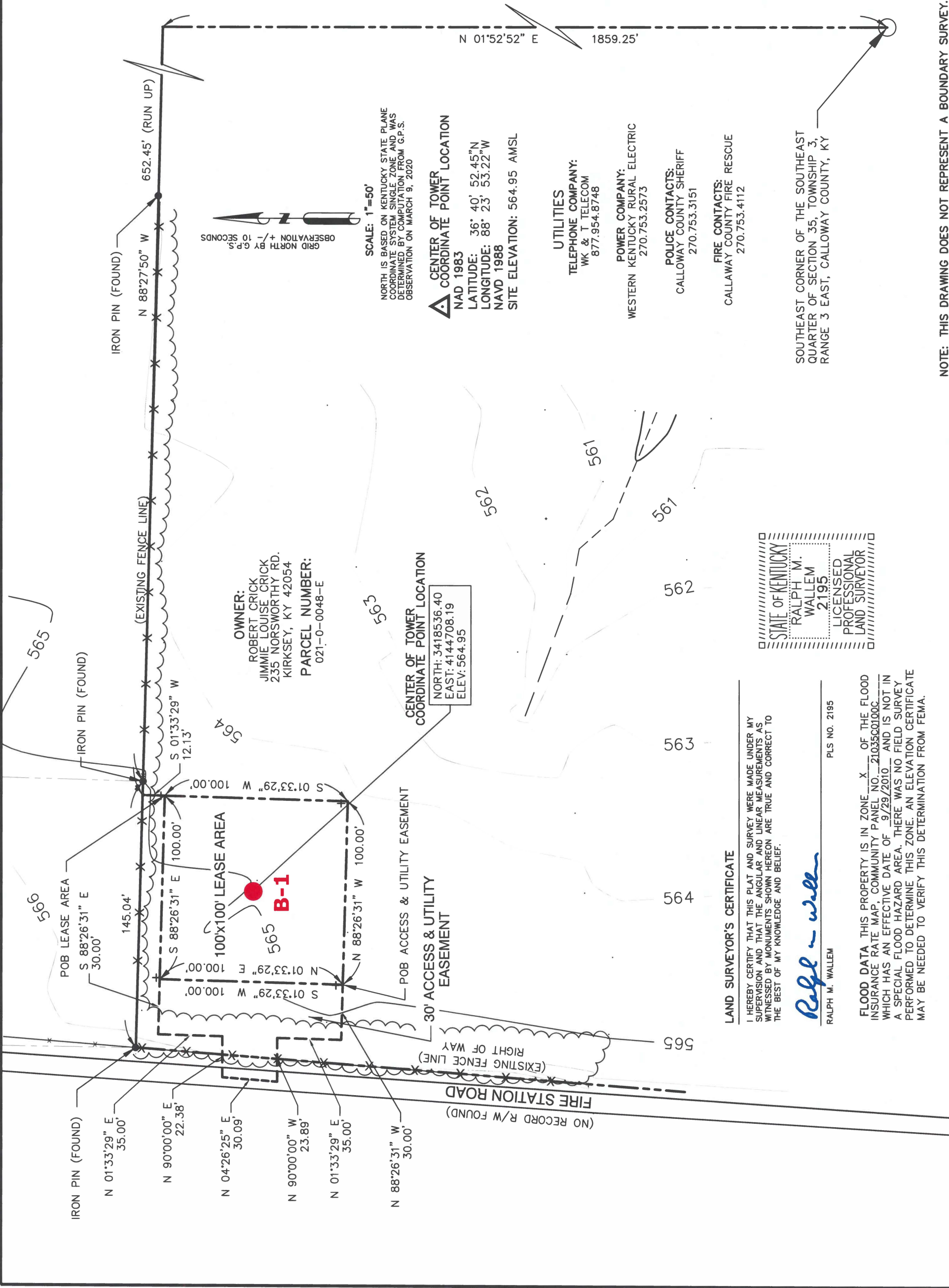
LATITUDE: 36° 40' 52.45"N
LONGITUDE: 88° 23' 53.22"W

DWG BY: GVV
CHKD BY: RMW
DATE: 3.13.20

NO. REVISION/ISSUE
DATE:

TITLE:
BORING
LOCATION PLAN

SHEET: 1 OF 2



SCALE: 1"=50'
NORTH IS BASED ON KENTUCKY STATE PLANE COORDINATE SYSTEM SINGLE ZONE, AND WAS DETERMINED BY COMPUTATION FROM G.P.S. OBSERVATION ON MARCH 9, 2020

△ CENTER OF TOWER COORDINATE POINT LOCATION
NAD 1983
LATITUDE: 36° 40' 52.45"N
LONGITUDE: 88° 23' 53.22"W
NAVD 1988
SITE ELEVATION: 564.95 AMSL

UTILITIES
TELEPHONE COMPANY:
WK & T TELECOM
877.954.8748

POWER COMPANY:
WESTERN KENTUCKY RURAL ELECTRIC
270.753.2573

POLICE CONTACTS:
CALLOWAY COUNTY SHERIFF
270.753.3151

FIRE CONTACTS:
CALLOWAY COUNTY FIRE RESCUE
270.753.4112

SOUTHEAST CORNER OF THE SOUTHEAST QUARTER OF SECTION 35, TOWNSHIP 3, RANGE 3 EAST, CALLOWAY COUNTY, KY

OWNER:
ROBERT CRICK
JIMMIE LOUISE CRICK
235 NORSWORTHY RD.
KIRKSEY, KY 42054
PARCEL NUMBER:
021-0-0048-E

△ CENTER OF TOWER COORDINATE POINT LOCATION
NORTH: 3418536.40
EAST: 4144708.19
ELEV: 564.95

STATE OF KENTUCKY
RALPH M. WALLEM
2195
LICENSED PROFESSIONAL LAND SURVEYOR

LAND SURVEYOR'S CERTIFICATE
I HEREBY CERTIFY THAT THIS PLAT AND SURVEY WERE MADE UNDER MY SUPERVISION AND THAT THE ANGULAR AND LINEAR MEASUREMENTS AS WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
Ralph M. Wallem
RALPH M. WALLEM
PLS NO. 2195

FLOOD DATA THIS PROPERTY IS IN ZONE X OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 21035C0100C WHICH HAS AN EFFECTIVE DATE OF 9/29/2010 AND IS NOT IN A SPECIAL FLOOD HAZARD AREA. THERE WAS NO FIELD SURVEY PERFORMED TO DETERMINE THIS ZONE. AN ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS DETERMINATION FROM FEMA.

NOTE: THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

Boring Number: B-1

CLIENT Verizon Wireless **PROJECT NAME** EV Kirksey
PROJECT NUMBER 2019737.57 **PROJECT LOCATION** Kirksey, KY
DATE STARTED November 8, 2022 **COMPLETED** November 8, 2022 **GROUND ELEVATION** _____ **HOLE SIZE** _____
DRILLING CONTRACTOR Chase Environmental Group, Inc. **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger with Automatic SPT Hammer ∇ **AT TIME OF DRILLING** 43.00 ft
LOGGED BY Ricky Rodriguez **CHECKED BY** Dustin Vincent **AT END OF DRILLING** --
NOTES CME-75 Drill Rig

CENTER TERMINATION NOTE - GINT STD US LAB.GDT. - 12/8/22 13.08 - F:\GEO\TECH\OBS\2019\2019737\57 - EV KIRKSEY, KY\EV KIRKSEY DRAFT LOGS.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
								LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Damp, stiff, brown with gray, silty CLAY, trace organics.									
			SS 1		4-4-6 (10)	4.25	20				
		Damp, medium stiff, brown with gray, silty CLAY.	SS 2		1-2-3 (5)	3.75	20				
10		Damp, medium stiff, brown with gray, silty CLAY, little fine sand, trace gravel.	SS 3		2-3-4 (7)	3.0	18				
		Damp, stiff, gray with brown, sandy CLAY, trace gravel.	SS 4		2-6-8 (14)	3.25	14				
		Damp, stiff, orangish brown, sandy CLAY, trace gravel.	SS 5		3-5-8 (13)	2.75	17				
20		Damp, stiff, orangish brown and gray, sandy CLAY, trace gravel.	SS 6		3-6-8 (14)	3.5	17				
		Damp, very stiff, mottled, orangish brown and gray and brown, silty CLAY with fine SAND.	SS 7		6-9-12 (21)	4.5+	22				
		Damp, medium dense, light brown and brown, fine to medium SAND.	SS 8		4-6-11 (17)		6				
		Damp, medium dense, white, fine to medium SAND.	SS 9		7-10-12 (22)		9				
40		∇ Damp, dense, light orangish brown, fine to medium SAND.	SS 10		6-17-29 (46)		20				
		Damp, very dense, orangish brown, fine to coarse SAND, some gravel.	SS 11		16-28-27 (55)		13				
50		Boring terminated at 50.0 feet									

Unified Soil Classification System

Major Divisions			Letter	Symbol	Description
Coarse-grained Soils More than 1/2 retained on the No. 200 Sieve	Gravels More than 1/2 coarse fraction retained on the No. 4 sieve	Clean Gravels	GW		Well-graded gravels and gravel-sand mixtures, little or no fines.
			GP		Poorly-graded gravels and gravel-sand mixtures, little or no fines.
		Gravels With Fines	GM		Silty gravels, gravel-sand-silt mixtures.
			GC		Clayey gravels, gravel-sand-clay mixtures.
	Sands More than 1/2 passing through the No. 200 sieve	Clean Sands	SW		Well-graded sands and gravelly sands, little or no fines.
			SP		Poorly-graded sands and gravelly sands, little or no fines.
		Sands With Fines	SM		Silty sands, sand-silt mixtures
			SC		Clayey sands, sandy-clay mixtures.
Fine-grained Soils More than 1/2 passing through the No. 200 Sieve	Silts and Clays Liquid Limit less than 50%		ML		Inorganic silts, very fine sands, rock flour, silty or clayey fine sands.
	Silts and Clays Liquid Limit greater than 50%		CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
			OL		Organic clays of medium to high plasticity.
			MH		Inorganic silts, micaceous or diatomaceous fines sands or silts, elastic silts.
	Silts and Clays Liquid Limit greater than 50%		CH		Inorganic clays of high plasticity, fat clays.
			OH		Organic clays of medium to high plasticity.
Highly Organic Soils			PT		Peat, muck, and other highly organic soils.
Consistency Classification					
<i>Granular Soils</i>			<i>Cohesive Soils</i>		
Description - Blows Per Foot (Corrected)			Description - Blows Per Foot (Corrected)		
	<u>MCS</u>	<u>SPT</u>		<u>MCS</u>	<u>SPT</u>
Very loose	<5	<4	Very soft	<3	<2
Loose	5 - 15	4 - 10	Soft	3 - 5	2 - 4
Medium dense	16 - 40	11 - 30	Firm	6 - 10	5 - 8
Dense	41 - 65	31 - 50	Stiff	11 - 20	9 - 15
Very dense	>65	>50	Very Stiff	21 - 40	16 - 30
			Hard	>40	>30
MCS = Modified California Sampler			SPT = Standard Penetration Test Sampler		

GENERAL NOTES

SAMPLE IDENTIFICATION

The Unified Soil Classification System (USCS), AASHTO 1988 and ASTM designations D2487 and D-2488 are used to identify the encountered materials unless otherwise noted. Coarse-grained soils are defined as having more than 50% of their dry weight retained on a #200 sieve (0.075mm); they are described as: boulders, cobbles, gravel or sand. Fine-grained soils have less than 50% of their dry weight retained on a #200 sieve; they are defined as silts or clay depending on their Atterberg Limit attributes. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size.

DRILLING AND SAMPLING SYMBOLS

SFA: Solid Flight Auger - typically 4" diameter flights, except where noted.	SS: Split-Spoon - 1 3/8" I.D., 2" O.D., except where noted.
HSA: Hollow Stem Auger - typically 3 1/4" or 4 1/4" I.D. openings, except where noted.	ST: Shelby Tube - 3" O.D., except where noted.
M.R.: Mud Rotary - Uses a rotary head with Bentonite or Polymer Slurry	BS: Bulk Sample
R.C.: Diamond Bit Core Sampler	PM: Pressuremeter
H.A.: Hand Auger	CPT-U: Cone Penetrometer Testing with Pore-Pressure Readings
P.A.: Power Auger - Handheld motorized auger	

SOIL PROPERTY SYMBOLS

N: Standard "N" penetration: Blows per foot of a 140 pound hammer falling 30 inches on a 2-inch O.D. Split-Spoon.
 N₆₀: A "N" penetration value corrected to an equivalent 60% hammer energy transfer efficiency (ETR)
 Q_u: Unconfined compressive strength, TSF
 Q_p: Pocket penetrometer value, unconfined compressive strength, TSF
 w%: Moisture/water content, %
 LL: Liquid Limit, %
 PL: Plastic Limit, %
 PI: Plasticity Index = (LL-PL), %
 DD: Dry unit weight, pcf
 ▽, ▽, ▽ Apparent groundwater level at time noted

RELATIVE DENSITY OF COARSE-GRAINED SOILS

<u>Relative Density</u>	<u>N - Blows/foot</u>
Very Loose	0 - 4
Loose	4 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	50 - 80
Extremely Dense	80+

ANGULARITY OF COARSE-GRAINED PARTICLES

<u>Description</u>	<u>Criteria</u>
Angular:	Particles have sharp edges and relatively plane sides with unpolished surfaces
Subangular:	Particles are similar to angular description, but have rounded edges
Subrounded:	Particles have nearly plane sides, but have well-rounded corners and edges
Rounded:	Particles have smoothly curved sides and no edges

GRAIN-SIZE TERMINOLOGY

<u>Component</u>	<u>Size Range</u>
Boulders:	Over 300 mm (>12 in.)
Cobbles:	75 mm to 300 mm (3 in. to 12 in.)
Coarse-Grained Gravel:	19 mm to 75 mm (3/4 in. to 3 in.)
Fine-Grained Gravel:	4.75 mm to 19 mm (No.4 to 3/4 in.)
Coarse-Grained Sand:	2 mm to 4.75 mm (No.10 to No.4)
Medium-Grained Sand:	0.42 mm to 2 mm (No.40 to No.10)
Fine-Grained Sand:	0.075 mm to 0.42 mm (No. 200 to No.40)
Silt:	0.005 mm to 0.075 mm
Clay:	<0.005 mm

PARTICLE SHAPE

<u>Description</u>	<u>Criteria</u>
Flat:	Particles with width/thickness ratio > 3
Elongated:	Particles with length/width ratio > 3
Flat & Elongated:	Particles meet criteria for both flat and elongated

RELATIVE PROPORTIONS OF FINES

<u>Descriptive Term</u>	<u>% Dry Weight</u>
Trace:	< 5%
With:	5% to 12%
Modifier:	>12%

GENERAL NOTES

(Continued)

CONSISTENCY OF FINE-GRAINED SOILS

<u>Q_u - TSF</u>	<u>N - Blows/foot</u>	<u>Consistency</u>
0 - 0.25	0 - 2	Very Soft
0.25 - 0.50	2 - 4	Soft
0.50 - 1.00	4 - 8	Firm (Medium Stiff)
1.00 - 2.00	8 - 15	Stiff
2.00 - 4.00	15 - 30	Very Stiff
4.00 - 8.00	30 - 50	Hard
8.00+	50+	Very Hard

MOISTURE CONDITION DESCRIPTION

<u>Description</u>	<u>Criteria</u>
Dry:	Absence of moisture, dusty, dry to the touch
Moist:	Damp but no visible water
Wet:	Visible free water, usually soil is below water table

RELATIVE PROPORTIONS OF SAND AND GRAVEL

<u>Descriptive Term</u>	<u>% Dry Weight</u>
Trace:	< 15%
With:	15% to 30%
Modifier:	>30%

STRUCTURE DESCRIPTION

<u>Description</u>	<u>Criteria</u>	<u>Description</u>	<u>Criteria</u>
Stratified:	Alternating layers of varying material or color with layers at least ¼-inch (6 mm) thick	Blocky:	Cohesive soil that can be broken down into small angular lumps which resist further breakdown
Laminated:	Alternating layers of varying material or color with layers less than ¼-inch (6 mm) thick	Lensed:	Inclusion of small pockets of different soils
Fissured:	Breaks along definite planes of fracture with little resistance to fracturing	Layer:	Inclusion greater than 3 inches thick (75 mm)
Slickensided:	Fracture planes appear polished or glossy, sometimes striated	Seam:	Inclusion 1/8-inch to 3 inches (3 to 75 mm) thick extending through the sample
		Parting:	Inclusion less than 1/8-inch (3 mm) thick

SCALE OF RELATIVE ROCK HARDNESS

<u>Q_u - TSF</u>	<u>Consistency</u>
2.5 - 10	Extremely Soft
10 - 50	Very Soft
50 - 250	Soft
250 - 525	Medium Hard
525 - 1,050	Moderately Hard
1,050 - 2,600	Hard
>2,600	Very Hard

ROCK BEDDING THICKNESSES

<u>Description</u>	<u>Criteria</u>
Very Thick Bedded	Greater than 3-foot (>1.0 m)
Thick Bedded	1-foot to 3-foot (0.3 m to 1.0 m)
Medium Bedded	4-inch to 1-foot (0.1 m to 0.3 m)
Thin Bedded	1¼-inch to 4-inch (30 mm to 100 mm)
Very Thin Bedded	½-inch to 1¼-inch (10 mm to 30 mm)
Thickly Laminated	1/8-inch to ½-inch (3 mm to 10 mm)
Thinly Laminated	1/8-inch or less "paper thin" (<3 mm)

ROCK VOIDS

<u>Voids</u>	<u>Void Diameter</u>
Pit	<6 mm (<0.25 in)
Vug	6 mm to 50 mm (0.25 in to 2 in)
Cavity	50 mm to 600 mm (2 in to 24 in)
Cave	>600 mm (>24 in)

GRAIN-SIZED TERMINOLOGY

<u>(Typically Sedimentary Rock)</u>	
<u>Component</u>	<u>Size Range</u>
Very Coarse Grained	>4.76 mm
Coarse Grained	2.0 mm - 4.76 mm
Medium Grained	0.42 mm - 2.0 mm
Fine Grained	0.075 mm - 0.42 mm
Very Fine Grained	<0.075 mm

ROCK QUALITY DESCRIPTION

<u>Rock Mass Description</u>	<u>RQD Value</u>
Excellent	90 -100
Good	75 - 90
Fair	50 - 75
Poor	25 -50
Very Poor	Less than 25

DEGREE OF WEATHERING

Slightly Weathered:	Rock generally fresh, joints stained and discoloration extends into rock up to 25 mm (1 in), open joints may contain clay, core rings under hammer impact.
Weathered:	Rock mass is decomposed 50% or less, significant portions of the rock show discoloration and weathering effects, cores cannot be broken by hand or scraped by knife.
Highly Weathered:	Rock mass is more than 50% decomposed, complete discoloration of rock fabric, core may be extremely broken and gives clunk sound when struck by hammer, may be shaved with a knife.

DIRECTIONS TO SITE FROM COUNTY SEAT

FROM CALLOWAY COUNTY SEAT: HEAD NORTH ON S 5TH STREET, TOWARD MAIN STREET, TURN RIGHT AT THE 1ST CROSS STREET ONTO MAIN ST, TURN LEFT AT THE 1ST CROSS STREET ONTO STATE HWY 2075 / N 4TH ST / US 641 BUSINESS (2.1 MI), TURN RIGHT ONTO US 641 N (.9 MI) TURN LEFT ONTO KY 80 W (5 M), TURN RIGHT ONTO KY 299 N (2.1 MI) TURN LEFT ONTO WASHER ROAD (.1 MI), TURN LEFT ONTO FIRE STATION DRIVE (.2 MI).

GPD GROUP, INC. 330-572-2100

Site Name: EV Kirksey
LOC Code: 573054
ATTY/DATE: GJ

LAND LEASE AGREEMENT

This Land Lease Agreement (the "Agreement") made this the 18TH day of January, 2023, between ROBERT CRICK and KAREN CRICK, with its principal offices located at 235 Norsworthy Road, Kirksey, Kentucky 42054, hereinafter designated LESSOR and Kentucky RSA No. 1 Partnership d/b/a Verizon Wireless with its principal offices at One Verizon Way, Mail Stop 4AW100, Basking Ridge, New Jersey 07920 (telephone number 866-862-4404), hereinafter designated LESSEE. LESSOR and LESSEE are at times collectively referred to hereinafter as the "Parties" or individually as the "Party".

WITNESSETH

In consideration of the mutual covenants contained herein and intending to be legally bound hereby, the Parties hereto agree as follows:

1. GRANT. In accordance with this Agreement, LESSOR hereby grants to LESSEE the right to install, maintain and operate communications equipment ("Use") upon the Leased Premises (as hereinafter defined), which are a part of that real property owned, leased or controlled by LESSOR at or near Fire Station drive, Kirksey, Kentucky 42054 (the "Property"). The Property is legally described on EXHIBIT "A" attached hereto and made a part hereof. The Leased Premises are a portion of the Property and are approximately 10,000 square feet and are shown in detail on EXHIBIT "B" attached hereto and made a part hereof. LESSEE may survey the Leased Premises at LESSEE's sole cost and expense. Upon completion, the survey shall replace EXHIBIT "B" in its entirety.

2. INITIAL TERM. This Agreement shall be effective as of the date of execution by both Parties ("Effective Date"). The initial term of the Agreement shall be for Five (5) years, beginning on the 1st day of the month following the Commencement Date (as hereinafter defined). The "Commencement Date" shall be the 1st day of the month after LESSEE begins installation of LESSEE's communications equipment on the Leased Premises.

3. EXTENSIONS. This Agreement shall automatically be extended for Four (4) additional Five (5) year terms unless LESSEE terminates it at the end of the then current term by giving LESSOR written Notice of the intent to terminate at least Three (3) months prior to the end of the then current term. The initial term and all extensions shall be collectively referred to herein as the "Term".

4. RENTAL. Rental payments shall begin on the Commencement Date and be due at a total annual rental of _____ to be paid in equal monthly installments on the first day of the month, in advance, to LESSOR at 235 Norsworthy Road, Kirksey, KY 42054, or to such other person, firm, or place as LESSOR may, from time to time, designate, in writing, at least thirty (30) days in advance of any rental payment date by Notice given in accordance with Paragraph Twenty (20) below. LESSOR and LESSEE acknowledge and agree that the initial rental payment shall not be

delivered by LESSEE until sixty (60) days after the Commencement Date. Upon agreement of the Parties, LESSEE may pay rent by electronic funds transfer and in such event, LESSOR agrees to provide to LESSEE bank routing information for such purpose upon request of LESSEE. Rent shall be increased annually upon the Commencement Date by an amount equal to two percent (2%) of the annual rental payable with respect to the immediately preceding year. For any party to whom rental payments are to be made, LESSOR or any successor-in-interest of LESSOR hereby agrees to provide to LESSEE (i) a completed, current version of IRS Form W-9 OR equivalent; (ii) complete and fully executed state and local withholding forms if required; and (iii) other documentation to verify LESSOR's or such other party's right to receive rental as is reasonably requested by LESSEE. Rental shall accrue in accordance with this Agreement, but LESSEE shall have no obligation to deliver rental payments until the requested documentation has been received by LESSEE. Upon receipt of the requested documentation, LESSEE shall deliver the accrued rental payments as directed by LESSOR.

In consideration for the execution of this Agreement and as a signing bonus contemplating potential delay of the Commencement Date, LESSEE agrees to make a one-time payment to LESSOR in the amount of _____ as additional consideration ("Additional Payment"). The Additional Payment shall be due within sixty (60) days following the date of full execution of this Agreement and shall be due and payable regardless of whether LESSEE commences the Agreement.

5. ACCESS. LESSEE shall have the non-exclusive right of ingress and egress from a public right-of-way (known as "Fire Station Road"), seven (7) days a week, twenty-four (24) hours a day, over the property to and from the Leased Premises for the purpose of installation, operation and maintenance of LESSEE's communications equipment. The right of ingress and egress easement from the public road (known as "Fire Station Road") is more particularly described as a 30' access utility easement described on Exhibit "B" which is attached hereto and incorporated by reference as if fully stated herein. In the event this area cannot be used for crop production by the crop tenant of the LESSOR, the LESSEE agrees to keep this area cleared of debris for the duration of this Lease and all of its extensions and/or renewals. Failure of LESSEE to keep this area free of debris may result in LESSOR hiring a third party to clear the area of ingress and egress and invoice the LESSEE for the reasonable costs of doing so and LESSEE agrees to pay the third party within thirty (30) days upon receipt of invoice. LESSEE may use the Easement for the installation, operation and maintenance of wires, cables, conduits and pipes for all necessary electrical, telephone, fiber and other similar support services. In the event it is necessary, LESSOR agrees to grant LESSEE or the provider the right to install such services on, through, over and/or under the Property, provided the location of such services shall be reasonably approved by LESSOR.

LESSOR further recognizes that LESSEE may potentially need an additional easement located on the North property line of LESSORS property (Exhibit "B"). This easement must be approved, in writing, by LESSOR before LESSEE utilizes any part of this potential easement area, which shall not exceed 10' South from the North property line of LESSORS property, upon approval. The easement may be used for the installation operation and maintenance of LESSEE's underground communications equipment. This right of ingress and egress easement is described as a utility easement.

With regard to any easements (including potential easements) as described herein, in the event LESSEE or any of LESSEE's agents, successors or assigns damage any crops on any of LESSOR's property, whether

on the easement or not, LESSEE agrees to reimburse the crop tenant of LESSOR for all costs of damage for the portion destroyed by LESSEE or LESSEE's agents, successors or assigns.

6. CONDITION OF PROPERTY. LESSOR shall deliver the Leased Premises to LESSEE in an undeveloped condition "AS IS, WHERE IS and with ALL FAULTS". LESSOR represents and warrants to LESSEE that as of the Effective Date, to the best of LESSOR's knowledge and belief, the Leased Premises is in compliance with all local, state and federal laws.

7. IMPROVEMENTS. The communications equipment including, without limitation, the tower structure, antennas, conduits, fencing and other screening and other improvements shall be at LESSEE's sole cost, expense and installation shall be at the discretion and option of LESSEE. LESSEE shall have the right to replace, repair, add or otherwise modify its communications equipment, tower structure, antennas, conduits, fencing and other screening or other improvements or any portion thereof and the frequencies over which the communications equipment operates, whether or not any of the communications equipment, antennas, conduits or other improvements are listed on any exhibit.

8. GOVERNMENT APPROVALS. LESSEE's Use is contingent upon LESSEE obtaining all certificates, permits and other approvals (collectively the "Government Approvals") that may be required by any Federal, State or Local authorities (collectively, the "Government Entities") as well as a satisfactory soil boring test, environmental studies, or any other due diligence LESSEE chooses that will permit LESSEE's Use. LESSOR shall cooperate with LESSEE in its effort to obtain such approvals and shall take no action which would adversely affect the status of the Property with respect to LESSEE's Use.

9. TERMINATION. LESSEE may, unless otherwise stated, immediately terminate this Agreement upon written Notice to LESSOR in the event that (i) any applications for such Government Approvals should be finally rejected; (ii) any Government Approval issued to LESSEE is canceled, expires, lapses or is otherwise withdrawn or terminated by any Government Entity; (iii) LESSEE determines that such Government Approvals may not be obtained in a timely manner; (iv) LESSEE determines any structural analysis is unsatisfactory; (v) LESSEE, in its sole discretion, determines the Use of the Leased Premises is obsolete or unnecessary; (vi) with 3 months prior Notice to LESSOR, upon the annual anniversary of the Commencement Date; or (vii) at any time before the Commencement Date for any reason or no reason in LESSEE's sole discretion.

10. INDEMNIFICATION. Subject to Paragraph 11, each Party shall indemnify and hold the other harmless against any claim of liability or loss from personal injury or property injury or property damage resulting from or arising out of the negligence or willful misconduct of the indemnifying Party, its employees, contractors or agents, except to the extent such claims or damages may be due to or caused by the negligence or willful misconduct of the other Party, or its employees, contractors or agents. The indemnified Party will provide the indemnifying Party with prompt, written Notice of any claim covered by this indemnification; provided that any failure of the indemnified Party to provide any such Notice, or to provide it promptly, shall not relieve the indemnifying Party from its indemnification obligation in respect of such claim, except to the extent the indemnifying Party can establish actual prejudice and direct damages as a result thereof. The indemnified Party will cooperate appropriately with the indemnifying Party in connection with the indemnifying Party's defense of such claim. The indemnifying Party shall defend any

indemnified Party, at the indemnified Party's request against any claim with counsel reasonably satisfactory to the indemnified Party. The indemnifying Party shall not settle or compromise any such claim or consent to the entry of any judgement without the prior written consent of each indemnified Party and without an unconditional release of all claims by each claimant or plaintiff in favor of each indemnified Party.

11. INSURANCE. LESSEE shall, at its own cost and expense, maintain commercial general liability insurance with limits of \$4,000,000 per occurrence for bodily injury (including death) and for damage or destruction to property. LESSEE agrees to include the LESSOR as an additional insured as their interest may appear under this Agreement.

LESSOR hereby acknowledges that all portions of the Property within three hundred feet (300') of the Premises (hereinafter referred to as the "Insurance Buffer") are currently being used solely for agricultural, forestry or non-commercial purposes. In the event that the current use of the Insurance Buffer changes during the Term, LESSOR agrees that at such time and in the future, and at its own cost and expense, each will maintain commercial general liability insurance with limits not less than \$1,000,000 for injury to or death of one or more persons in any one occurrence and \$500,000 for damage or destruction to property in any one occurrence.

The Parties hereby waive and release any and all rights of action for negligence against the other which may hereafter arise on account of damage to the Premises or the Property, resulting from any fire, or other casualty which is insurable under "Causes of Loss – Special Form" property damage insurance or for the kind covered by standard fire insurance policies with extended coverage, regardless of whether or not, or in what amounts, such insurance is now or hereafter carried by the Parties, even if any such fire or other casualty shall have been caused by the fault or negligence of the other Party. These waivers and releases shall apply between the Parties and they shall also apply to any claims under or through either Party as a result of any asserted right of subrogation. All such policies of insurance obtained by either Party concerning the Premises or the Property shall waive the insurer's right of subrogation against the other Party.

12. LIMITATION OF LIABILITY. Except for indemnification pursuant to Paragraphs Ten (10) and Twenty-Four (24), a violation of Paragraph Twenty-Nine (29), or a violation of law, neither Party shall be liable to the other, or any of their respective agents, representatives, or employees for any lost revenue, lost profits, loss of technology, rights or services, incidental, punitive, indirect, special or consequential damages, loss of data, or interruption or loss of use of service, even if advised of the possibility of such damages, whether under theory of contract, tort (including negligence), strict liability or otherwise.

13 INTERFERENCE. LESSEE agrees that LESSEE will not cause interference that is measurable in accordance with industry standards to LESSOR's equipment. LESSOR agrees that LESSOR and other occupants of the Property will not cause interference that is measurable in accordance with industry standards to the then existing equipment of LESSEE. Without limiting any other rights or remedies, if interference occurs and continues for a period in excess of Forty-Eight (48) hours following Notice to the interfering Party via telephone to LESSEE's Network Operations Center (at 800 852-2671 OR 800 621-2622) or to LESSOR (at 270-559-7443), the interfering Party shall or shall require any other user to reduce power or cease operations of the interfering equipment until the interference is cured. The Parties acknowledge that there will not be an adequate remedy at law for noncompliance with the provisions of this Paragraph

and therefore the Parties shall have the right to equitable remedies such as, without limitation, injunctive relief and specific performance.

14. REMOVAL AT END OF TERM. Upon expiration or within 90 days of earlier termination, LESSEE shall remove LESSEE's Communications Equipment for any reason including, but not limited to, all footings (concrete or otherwise) to a depth of 4' below surface, equipment, electrical lines, etc. and restore the Leased Premises to its original condition, reasonable wear and tear and casualty damage excepted. LESSOR agrees and acknowledges that the communications equipment shall remain the personal property of LESSEE and LESSEE shall have the right to remove the same at any time during the Term, whether or not said items are considered fixtures and attachments to real property under applicable laws. If such time for removal causes LESSEE to remain on the Premises after termination of the Agreement, LESSEE shall pay rent at the then existing monthly rate until the removal of the communications equipment is completed. Failure of LESSEE to remove LESSEE's communication equipment (including, but not limited to all footings to a depth of 4' below surface, equipment, etc.), within six (6) months from termination, may allow LESSOR to enter upon the premises to remove all of LESSEE's communication equipment as described herein and then bill LESSEE for all cost of removal. LESSEE agrees to reimburse LESSOR for all cost of removal, including a reasonable amount for attorney fees, court costs and appellate fees associated with collection of these fees on behalf of LESSEE.

15. HOLDOVER. If upon expiration of the Term the Parties are negotiating a new lease or a lease extension, then this Agreement shall continue during such negotiations on a month to month basis at the rental rate in effect as of the date of expiration of the Term. In the event the Parties are not in the process of negotiating a new lease or lease extension and LESSEE holds over after the expiration or earlier termination of the Term, then LESSEE shall pay rent at the then existing monthly rate or on the existing monthly pro-rata basis if based upon a longer payment term, until the removal of the communications equipment is completed.

16. RIGHT OF FIRST REFUSAL. If at any time after the Effective Date, LESSOR receives an offer or letter of intent from any person or entity that is in the business of owning, managing or operating communications facilities or is in the business of acquiring landlord interests in agreements relating to communications facilities to purchase fee title, an easement, a lease, a license or any other interest in the Premises, or any portion thereof or to acquire any interest in this Agreement, or an option for any of the foregoing, LESSOR shall provide written Notice to LESSEE of said offer ("LESSOR's NOTICE"). LESSOR's Notice shall include the prospective buyer's name, the purchase price being offered, any other consideration being offered, the other terms and conditions of the offer, a description of the portion and/or interest in the Premises and/or this agreement which will be conveyed in the proposed transaction, and a copy of any letters of intent or form agreements presented to LESSOR by the third party offeror. LESSEE shall have the right of first refusal to meet any bona fide offer of sale or transfer on the terms and conditions of such offer or by effectuating a transaction with substantially equivalent financial terms. If LESSEE fails to provide written Notice to LESSOR that LESSEE intends to meet such bona fide offer within Thirty (30) days after receipt of LESSOR's Notice, LESSOR may proceed with the proposed transaction in accordance with the terms and conditions of such third party offer, in which event this Agreement shall continue in full force and effect and the right of first refusal described in this Paragraph shall survive any such conveyance to a third party. If LESSEE provides LESSOR with Notice of LESSEE's intention to meet the

third party offer within Thirty (30) days after receipt of LESSOR's Notice, then if LESSOR's Notice describes a transaction involving greater space than the Premises, LESSEE may elect to proceed with a transaction covering only the Premises and the purchase price shall be pro-rated on a square footage basis. Further, LESSOR acknowledges and agrees that if LESSEE exercises this right of first refusal, LESSEE shall have a six (6) month period of time to conduct due diligence and effectuate a closing of a transaction on substantially equivalent financial terms of the third-party offer. LESSEE may elect to amend this Agreement to effectuate the proposed financial terms of the third party offer rather than acquiring fee simple title or an easement interest in the Premises. For purposes of this Paragraph, any transfer, bequest or devise of LESSOR's interest in the Property as a result of the death of LESSOR, whether by will or intestate succession, or any conveyance to LESSOR's family members by direct conveyance or by conveyance to a trust for the benefit of family members shall not be considered a sale for which LESSEE has any right of first refusal.

17. RIGHTS UPON SALE. Should LESSOR at any time during the Term, decide (i) to sell or otherwise transfer all or any part of the Property, or (ii) to grant to a third party by easement or other legal instrument an interest in and to any portion of the Premises, such sale, transfer, or grant of an easement or interest therein shall be under and subject to this Agreement and any such purchaser or transferee shall recognize LESSEE's rights hereunder. In the event that LESSOR completes any such sale, transfer, or grant described in this Paragraph without executing an assignment of the Agreement whereby the third party agrees in writing to assume all obligations of LESSOR under this Agreement, then LESSOR shall not be released from its obligations to LESSEE under this Agreement, and LESSEE shall have the right to look to LESSOR and the third party for the full performance of the Agreement.

18. LESSOR'S TITLE. LESSOR covenants that LESSEE, on paying the rent and performing the covenants herein, shall peaceably and quietly have, hold and enjoy the Premises. LESSOR represents and warrants to LESSEE as of the Effective Date and covenants during the Term that LESSOR has full authority to enter into and execute this Agreement and that there are no liens, judgments, covenants, easement, restrictions or other impediments of title that will adversely affect LESSEE's Use.

19. ASSIGNMENT. Subject to the terms of Paragraph Sixteen (16), without any approval or consent of the other Party, this Agreement may be sold, assigned or transferred by either Party to any other third party. LESSEE may sublet the Premises in LESSEE's sole discretion.

20. NOTICES. Except for Notices permitted via telephone in accordance with Paragraph Thirteen (13), all Notices hereunder must be in writing and shall be deemed validly given if sent by certified mail, return receipt requested or by commercial courier, provided the courier's regular business is delivery service and provided further that it guarantees delivery to the addressee by the end of the next business day following the courier's receipt from the sender, addressed as follows (or any other address that the Party to be notified may have designated to the sender by like Notice):

LESSOR: Robert Crick and Karen Crick
235 Norsworthy Road
Kirksey, KY 42054

LESSEE. Kentucky RSA No. 1 Partnership
180 Washington Valley Road
Bedminster, NJ 07921
ATTN: Network Real Estate

Notice shall be effective upon actual receipt or refusal as shown on the receipt obtained pursuant to the foregoing.

21. SUBORDINATION & NON-DISTURBANCE. Within Fifteen (15) days of the Effective Date, LESSOR shall obtain a Non-Disturbance Agreement, as defined below, from its existing mortgagee(s), ground Lessors and master Lessors, if any, of the Property. At LESSOR's option, this Agreement shall be subordinate to any future master lease, ground lease, mortgage, deed of trust or other security interest (a "Mortgage") by LESSOR which from time to time may encumber all or part of the Property; provided, however, as a condition precedent to LESSEE being required to subordinate its interest in this Agreement to any future Mortgage covering the Property, LESSOR shall obtain for LESSEE's benefit a non-disturbance and attornment agreement for LESSEE's benefit in the form reasonably satisfactory to LESSEE, and containing the terms described below (the "Non-Disturbance Agreement"), and shall recognize LESSEE's rights under this Agreement. The Non-Disturbance Agreement shall include the encumbering party's ("Lender's") agreement that, if Lender or its successor-in-interest or any purchaser of Lender's or its successor's interest (a "Purchaser") acquires an ownership interest in the Property, Lender or such successor-in-interest or Purchaser will honor all of the terms of the Agreement. Such Non-Disturbance Agreement must be binding on all of Lender's participants in the subject loan (if any) and on all successors and assigns of Lender and/or its participants and on all Purchasers. In return for such Non-Disturbance Agreement, LESSEE will execute an agreement for Lender's benefit in which LESSEE (1) confirms that this Agreement is subordinate to the Mortgage or other real property interest in favor of Lender, (2) agrees to attorn to Lender if Lender becomes the owner of the Property and (3) agrees to accept a cure by Lender of any of LESSOR's defaults, provided such cure is completed within the deadline applicable to LESSOR. In the event LESSOR defaults in the payment and/or other performance of any mortgage or other real property interest encumbering the Property, LESSEE may, at its sole option and without obligation, cure or correct LESSOR's default and upon doing so, LESSEE shall be subrogated to any and all rights, titles, liens and equities of the holders of such mortgage or other real property interest and LESSEE shall be entitled to deduct and setoff against all rents that may otherwise become due under this Agreement the sums paid by LESSEE to cure or correct such defaults.

22. DEFAULT. It is a "Default" if (i) either Party fails to comply with this Agreement and does not remedy the failure within Thirty (30) days after written Notice by the other Party or, if the failure cannot reasonably be remedied in such time, if the failing Party does not commence a remedy within the allotted Thirty (30) days and diligently pursue the cure to completion within Ninety (90) days after the initial written Notice, or (ii) LESSOR fails to comply with this Agreement and the Failure interferes with LESSEE's Use and LESSOR does not remedy the failure within Five (5) days after written Notice from LESSEE or, if the failure cannot reasonably be remedied in such time, if LESSOR does not commence a remedy within the allotted Five (5) days and diligently pursue the cure to completion within Fifteen (15) days after the initial written

Notice. The cure periods set forth in this Paragraph Twenty-Two (22) do not extend the period of time in which either Party has to cure interference pursuant to Paragraph Thirteen (13) of this Agreement.

23. REMEDIES. In the event of a Default, without limiting the non-defaulting Party in the exercise of any right or remedy which the non-defaulting Party may have by reason of such default, the non-defaulting Party may terminate this Agreement and/or pursue any remedy now or hereafter available to the non-defaulting Party under the Laws or judicial decisions of the state in which the Property is located. Further, upon a Default, the non-defaulting Party may at its option (but without obligation to do so), perform the defaulting Party's duty or obligation. The costs and expenses of any such performance by the non-defaulting Party shall be due and payable by the defaulting Party upon invoice therefore. If LESSEE undertakes any such performance on LESSOR's behalf and LESSOR does not pay LESSEE the full undisputed amount within Thirty (30) days of its receipt of an invoice setting forth the amount due, LESSEE may offset the full undisputed amount due against all fees due and owing to LESSOR under this Agreement until the full undisputed amount is fully reimbursed to LESSEE.

24. ENVIRONMENTAL. LESSEE shall conduct its business in compliance with all applicable laws governing the protection of the environment or employee health and safety ("EH&S Laws"). LESSEE shall indemnify and hold harmless LESSOR from Claims to the extent resulting from LESSEE's violation of any applicable EH&S Laws or to the extent that LESSEE causes a release of any regulated substance to the environment. LESSOR shall indemnify and hold harmless LESSEE from all claims resulting from the violation of any applicable EH&S Laws or a release of any regulated substance to the environment except to the extent resulting from the activities of LESSEE. The Parties recognize that LESSEE is only leasing a small portion of LESSOR's property and the LESSEE shall not be responsible for any environmental condition or issue except to the extent resulting from LESSEE's specific activities and responsibilities. In the event that LESSEE encounters any hazardous substances that do not result from its activities, LESSEE may relocate its facilities to avoid such hazardous substances to a mutually agreeable location, or, if LESSEE desires to remove at its own cost all or some of the hazardous substances or material (such as soil) containing those hazardous substances, LESSOR agrees to sign any necessary waste manifest associated with the removal, transportation and/or disposal of such substances.

25. CASUALTY. If a fire or other casualty damages the Leased Property, through no fault of LESSOR, which impairs LESSEE's Use, rent shall not be abated to LESSOR. If LESSEE's Use is not restored within 45 days, LESSEE may terminate the Agreement.

26. CONDEMNATION. If a condemnation of any portion of the Leased Premises impairs LESSEE's Use, LESSEE may terminate this Agreement. LESSEE may on its own behalf make a claim in any condemnation proceeding involving the Premises for losses related to LESSEE's communications equipment, relocation costs and specifically excluding loss of LESSEE's leasehold interest, any other damages LESSEE may incur as a result of any such condemnation.

27. APPLICABLE LAWS. During the Term, LESSEE shall maintain the Premises in compliance with all applicable laws, EH&S Laws, rules, regulations, ordinances, directives, covenants, easements, consent decrees, zoning and land use regulations and restrictions of record, permits, building codes and the requirements of any applicable fire insurance underwriter or rating bureau, now in effect which may

hereafter come into effect (including, without limitation, the Americans with Disabilities Act and laws regulating hazardous substances) (collectively "Laws"). LESSEE shall, in respect to the condition of the Premises and at LESSEE's sole cost and expense, comply with (i) all laws relating solely to LESSEE's specific and unique nature of use of the Premises; and (ii) all building codes requiring modifications to the Premises due to the improvements being made by LESSEE in the Premises. It shall be LESSOR's obligation to comply with all laws relating to the Premises, without regard to specific use (including, without limitation, modifications required to enable LESSEE to obtain all necessary building permits).

28. TAXES. LESSOR shall invoice and LESSEE shall pay any applicable transaction tax (including sales, use, gross receipts, or excise tax) imposed on LESSEE and required to be collected by LESSOR based on any service, rental space, or equipment provided by LESSOR to LESSEE. LESSEE shall pay all personal property taxes, fees, assessments, or other taxes and charges imposed by any Government Entity that are imposed on LESSEE and required to be paid by LESSEE that are directly attributable to LESSEE's equipment or LESSEE's use and occupancy of the Premises. LESSEE shall pay their proportionate share of the ad valorem taxes attributed to the increase (if any) in the assessed value of LESSOR's real property as a direct result of improvements made by LESSEE. Payment shall be made by LESSEE within Sixty (60) days after presentation of a receipted bill and/or assessment Notice which is the basis for such taxes or charges. LESSEE shall pay all ad valorem, personal property, real estate, sales and use taxes, fees, franchise fees, telecommunication tax assessments or other taxes or charges that are attributable to LESSEE's Leased Property or any portion thereof imposed by any Government Entity. LESSOR shall pay all taxes on the Leased Property, excluding LESSEE's share that is attributable to this Lease. LESSEE shall have the right, at its sole option and at its sole cost and expense, to appeal, challenge or seek modification of any tax assessment or billing for which LESSEE is wholly or partly responsible for payment. LESSOR shall reasonably cooperate with LESSEE at LESSEE's expense in filing, prosecuting and perfecting any appeal or challenge to taxes as set forth in the preceding sentence, including but not limited to, executing any consent, appeal or other similar document. In the event that as a result of any appeal or challenge by LESSEE, there is a reduction, credit or repayment received by LESSOR for any taxes previously paid by LESSEE, LESSOR agrees to promptly reimburse to LESSEE the amount of said reduction, credit or repayment. In the event that LESSEE does not have the standing rights to pursue a good faith and reasonable dispute of any taxes under this paragraph, LESSOR will pursue such dispute at LESSEE's sole cost and expense upon written request of LESSEE.

29. NON-DISCLOSURE. The Parties agree this Agreement and any information exchanged between the Parties regarding the Agreement are confidential. The Parties agree not to provide copies of this Agreement or any other confidential information to any third party without the prior written consent of the other or as required by law. If a disclosure is required by law, prior to disclosure, the Party shall notify the other Party and cooperate to take lawful steps to resist, narrow, or eliminate the need for that disclosure.

30. MOST FAVORED LESSEE. LESSOR represents and warrants that the rent, benefits and terms and conditions granted to LESSEE by LESSOR hereunder are now and shall be, during the Term, no less favorable than the rent, benefits and terms and conditions for substantially the same or similar tenancies or licenses granted by LESSOR to other parties. If at any time during the Term LESSOR shall offer more favorable rent, benefits or terms and conditions for substantially the same or similar tenancies or licenses as those granted hereunder, then LESSOR shall, within Thirty (30) days after the effective date of such

offering, notify LESSEE of such fact and offer LESSEE the more favorable offering. If LESSEE chooses, the Parties shall then enter into an amendment that shall be effective retroactively to the effective date of the more favorable offering, and shall provide the same rent, benefits or terms and conditions to LESSEE. LESSEE shall have the right to decline to accept the offering LESSOR's compliance with this requirement shall be subject, at LESSEE's option, to independent verification.

31. MISCELLANEOUS. This Agreement contains all agreements, promises and understandings between LESSOR and LESSEE regarding this transaction, and no oral agreement, promises or understandings shall be binding upon either LESSOR or LESSEE in any dispute, controversy or proceeding. This Agreement may not be amended or varied except in a writing signed by all Parties. This Agreement shall extend to and bind the heirs, personal representatives, successors and assigns hereto. The failure of either Party to insist upon strict performance of any of the terms or conditions of this Agreement or to exercise any of its rights hereunder shall not waive such rights, and such Party shall have the right to enforce such rights at any time. The performance of this Agreement shall be governed, interpreted, construed and regulated by the laws of the state in which the Premises is located without reference to its choice law rules. EXCEPT as expressly set forth in this Agreement, nothing in this Agreement shall grant, suggest or imply any authority for one Party to use the name, trademarks, service marks or trade names of the other for any purpose whatsoever. LESSOR agrees to execute a Memorandum of this Agreement, which LESSEE may record with the appropriate recording officer. The provisions of the Agreement relating to indemnification from one Party to the other Party shall survive any termination or expiration of this Agreement.

(signatures on next page)

IN WITNESS WHEREOF, the Parties hereto have set their hands and affixed their respective seals the day and year first above written.

LESSORS:

Robert Crick

ROBERT CRICK

Karen Crick

KAREN CRICK

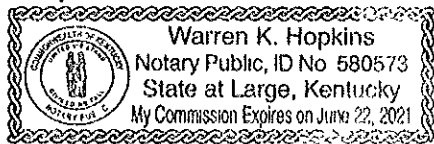
LESSEE:

~~KENTUCKY RSA NO. 1 PARTNERSHIP d/b/a
VERIZON WIRELESS By: CELLCO PARTNERSHIP,
Its General Partner~~ *MAD*

~~By: _____
Date: _____~~

COMMONWEALTH OF KENTUCKY
COUNTY OF CALLOWAY

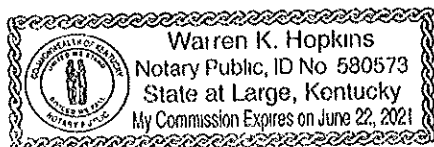
I, the undersigned Notary Public, do hereby certify that the foregoing instrument was duly subscribed, acknowledged, and sworn to before me by ROBERT CRICK, who is personally known to me (or proved to me on the basis of satisfactory evidence) as his free and duly authorized act, on this the 18th day of September 2020



Warren K. Hopkins
NOTARY PUBLIC, STATE AT LARGE
My commission expires: 6-22-2021

COMMONWEALTH OF KENTUCKY
COUNTY OF CALLOWAY

I, the undersigned Notary Public, do hereby certify that the foregoing instrument was duly subscribed, acknowledged, and sworn to before me by KAREN CRICK, who is personally known to me (or proved to me on the basis of satisfactory evidence) as her free and duly authorized act, on this the 18th day of September 2020.

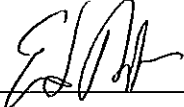


Warren K. Hopkins
NOTARY PUBLIC, STATE AT LARGE
My commission expires: 6-22-2021

LESSEE:

Kentucky RSA No. 1 Partnership

By Cellco Partnership d/b/a Verizon Wireless, Its Managing Partner

By: 
 Name: Ed Maher
 Its: Director - Network Field Engineering
 Date: 1/18/23


STATE OF Michigan)
)
 COUNTY OF Oakland)

LESSEE ACKNOWLEDGEMENT

On Jan 18, 2023 before me, Brianne Schippling, personally appeared Ed MAHER personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity as Director - Network of Kentucky RSA No. 1 Partnership, By Cellco Partnership d/b/a Verizon Wireless, Its Managing Partner and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument

WITNESS my hand and official Notarial Seal, this 18 day of Jan, 2023.

BRIANNE SCHIPPLING
 NOTARY PUBLIC, STATE OF MI
 COUNTY OF OAKLAND
 MY COMMISSION EXPIRES Jun 19, 2026
 ACTING IN COUNTY OF


 Notary Public

My Commission Expires:
6/19/26

EXHIBIT "A"

DESCRIPTION OF PROPERTY

BY KIRKSEY

LEASE ARE DESCRIPTION

A PART OF SECTION 35, TOWNSHIP 3, RANGE 3 EAST, CALLAWAY COUNTY, KENTUCKY AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF THE SOUTHEAST QUARTER OF SAID SECTION 35; THENCE ON AND ALONG THE EAST QUARTER SECTION LINE NORTH 01 DEGREES 52 MINUTES 52 SECONDS EAST 1859.25 FEET; THENCE NORTH 88 DEGREES 27 MINUTES 50 SECONDS WEST 652.45 FEET, THENCE SOUTH 01 DEGREES 33 MINUTES 29 SECONDS EAST 12.13 FEET TO THE TRUE PLACE OF BEGINNING; THENCE CONTINUING SOUTH 01 DEGREES 33 MINUTES 29 SECONDS WEST 100.00 FEET; THENCE NORTH 88 DEGREES 26 MINUTES 31 SECONDS WEST 100.00 FEET; THENCE NORTH 01 DEGREES 33 MINUTES 29 SECONDS EAST 100.00 FEET; THENCE SOUTH 88 DEGREES 26 MINUTES 31 SECONDS EAST 100.00 FEET TO THE TRUE PLACE OF BEGINNING AND CONTAINING 10,000 SQUARE FEET, (0.23 ACRES), MORE OR LESS.

30' ACCESS & UTILITY EASEMENT DESCRIPTION

A PART OF SECTION 35, TOWNSHIP 3, RANGE 3 EAST, CALLAWAY COUNTY, KENTUCKY AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF THE SOUTHEAST QUARTER OF SAID SECTION 35; THENCE ON AND ALONG THE EAST QUARTER SECTION LINE NORTH 01 DEGREES 52 MINUTES 52 SECONDS EAST 1859.25 FEET; THENCE NORTH 88 DEGREES 27 MINUTES 50 SECONDS WEST 652.45 FEET; THENCE SOUTH 01 DEGREES 33 MINUTES 29 SECONDS EAST 12.13 FEET; THENCE CONTINUING SOUTH 01 DEGREES 33 MINUTES 29 SECONDS WEST 100.00 FEET; THENCE NORTH 88 DEGREES 26 MINUTES 31 SECONDS WEST 100.00 FEET TO THE TRUE PLACE OF BEGINNING; THENCE CONTINUING NORTH 88 DEGREES 26 MINUTES 31 SECONDS WEST 30.00 FEET; THENCE NORTH 01 DEGREES 33 MINUTES 29 SECONDS EAST 35.00 FEET; THENCE NORTH 90 DEGREES 00 MINUTES 00 SECONDS WEST 23.89 FEET TO THE CENTER OF FIRE STATION ROAD; THENCE ALONG SAID CENTER OF ROAD NORTH 04 DEGREES 26 MINUTES 25 SECONDS EAST 30.09 FEET; THENCE NORTH 90 DEGREES 00 MINUTES 00 SECONDS EAST 22.38 FEET; THENCE NORTH 01 DEGREES 33 MINUTES 29 SECONDS EAST 35.00 FEET, THENCE SOUTH 88 DEGREES 26 MINUTES 31 SECONDS EAST 30.00 FEET; THENCE SOUTH 01 DEGREES 33 MINUTES 29 SECONDS WEST 100.00 FEET TO THE TRUE PLACE OF BEGINNING AND CONTAINING 3694 SQUARE FEET, (0.08 ACRES), MORE OR LESS

PARENT PARCEL DESCRIPTION

ALL THAT PARCEL OF LAND IN THE IN THE COUNTY OF CALLOWAY AND COMMONWEALTH OF KENTUCKY AS MORE FULLY DESCRIBED IN DEED AND BOOK 809 PAGE 695 AND PARCEL # 021-0-0048-E, BEING KNOWN AND DESIGNATED AS.

PARCEL I:

BEING A PORTION OF SECTION 35, T. 3, R. 3, EAST, DESCRIBED AS BEGINNING AT THE SOUTHEAST CORNER OF THE SOUTHEAST QUARTER OF SAID SECTION; THENCE NORTH WITH THE QR. SEC. LINE AND WITH THE MURRAY-KIRKSEY ROAD 126.66 POLES TO A ROCK;

THENCE WEST 39.09 POLES TO A STAKE; THENCE NORTH 14.12 POLES TO A STAKE; THENCE WEST 9 POLES TO A STAKE; THENCE SOUTH 14.12 POLES TO A STAKE; THENCE SOUTH 4 DEGREES WEST 84.06 POLES TO A STAKE; THENCE SOUTH 6 DEGREES EAST 42.42 POLES TO A STAKE IN THE SOUTH LINE OF SAID SEC. 35; THENCE EAST WITH SEC. LINE 46 34 POLES TO THE BEGINNING, CONTAINING 39 ACRES AND 123 POLES, EXCEPT 8 1/2 ACRES SOLD OFF OF THE NORTH END TO ZOLLIE NORSWORTHY.

ALSO EXCEPT: ONE ACRE LOCATED IN THE SOUTHEAST CORNER OF THE ABOVE DESCRIBED TRACT, SAID ONE ACRE BEING 180 FEET NORTH AND SOUTH ALONG THE WEST SIDE OF SAID HIGHWAY AND BEING 242 FEET EAST AND WEST.

ALSO LESS AND EXCEPT:

(1) THAT TRACT OF LAND CONVEYED TO GERALD STONE, ET UX., BY DEED DATED OCTOBER 7, 1961, OF RECORD IN DEED BOOK 114, PAGE 243.

(2) THAT TRACT OF LAND CONVEYED TO CECIL BAKER, ET UX., BY DEED DATED OCTOBER 7, 1961, OF RECORD IN DEED BOOK 114, PAGE 244.

(3) THAT TRACT OF LAND CONVEYED TO HOMER CRASS, ET UX., BY DEED DATED OCTOBER 7, 1961 OF RECORD IN DEED BOOK 114, PAGE 245.

PARCEL II.

BEING A PORTION OF SECTION 35, T. 3., R. 3, EAST: BEGINNING AT A POINT OF THE WEST SIDE OF THE MURRAY & KIRKSEY STATE HIGHWAY NO 299, WHICH BEGINNING POINT OF 126.66 POLES NORTH OF THE S.E. CORNER OF THE SE QR OF S 35, T. 3 R 3 EAST; THENCE WEST WITH CLOY'S NORTH LINE 39.09

POLES TO A STAKE; THENCE NORTH 14.12 POLES TO A STAKE; THENCE WEST 9 POLES TO A STAKE; THENCE SOUTH 14.12 POLES TO A STAKE; THENCE CONTINUING SOUTH 4 DEGREES WEST FAR ENOUGH TO MAKE (81/2) EIGHT AND ONE HALF ACRES HEREIN CONVEYED; THENCE EAST PARALLEL WITH NORTH LINE HEREOF ABOUT 46 POLES TO THE WEST SIDE OF SAID MURRAY & KIRKSEY STATE HIGHWAY; THENCE NORTH WITH SAID HIGHWAY TO THE POINT OF BEGINNING, CONTAINING 8 1/2 ACRES

LESS AND EXCEPT: THAT TRACT OF LAND CONVEYED TO JUDY L. USHER, A SINGLE PERSON, BY DEED DATED JULY 9, 1973, OF RECORD IN BOOK 152, PAGE 1985 IN THE OFFICE OF THE CALLOWAY COUNTY CLERK
PARCEL NUMBER 021-0-0048-1E

BEING THE SAME PROPERTY ACQUIRED BY ROBERT CRICK, A ONE-HALF INTEREST, AND KAREN CRICK, A ONE-HALF INTEREST BY DEED OF CLAYBORN CRICK AND WIFE JIMMIE LOUISE CRICK, DATED 11/05/2009 AND RECORDED 11/05/2009 IN BOOK / PAGE · 809 / 695

EXHIBIT "B"
APPROVED SITE PLAN OF THE PREMISES

verizon

STRATEGIS

875 SUPERIOR AVE. E
SUITE 1872
CLEVELAND OHIO 44114

SEICHELBY
SERVICES, INC.
10000 SUPERIOR AVE. E
SUITE 1872
CLEVELAND OHIO 44114

PARCEL: 20192031898

SITE NAME: EV KIRKSEY

SITE ADDRESS: FIRE STATION DRIVE
KIRKSEY, KY 42054

LEASE AREA: 10000 SQ. FT.

PROPERTY OWNER: ROBERT CRICK
JIMMIE LOUISE CRICK
235 NORSWORTHY RD
KIRKSEY, KY 42054

SECTION/TOWNSHIP/RANGE: SEC 35 T3 R3E

COUNTY: CALLOWAY COUNTY

PARCEL: 021-0-0048-E

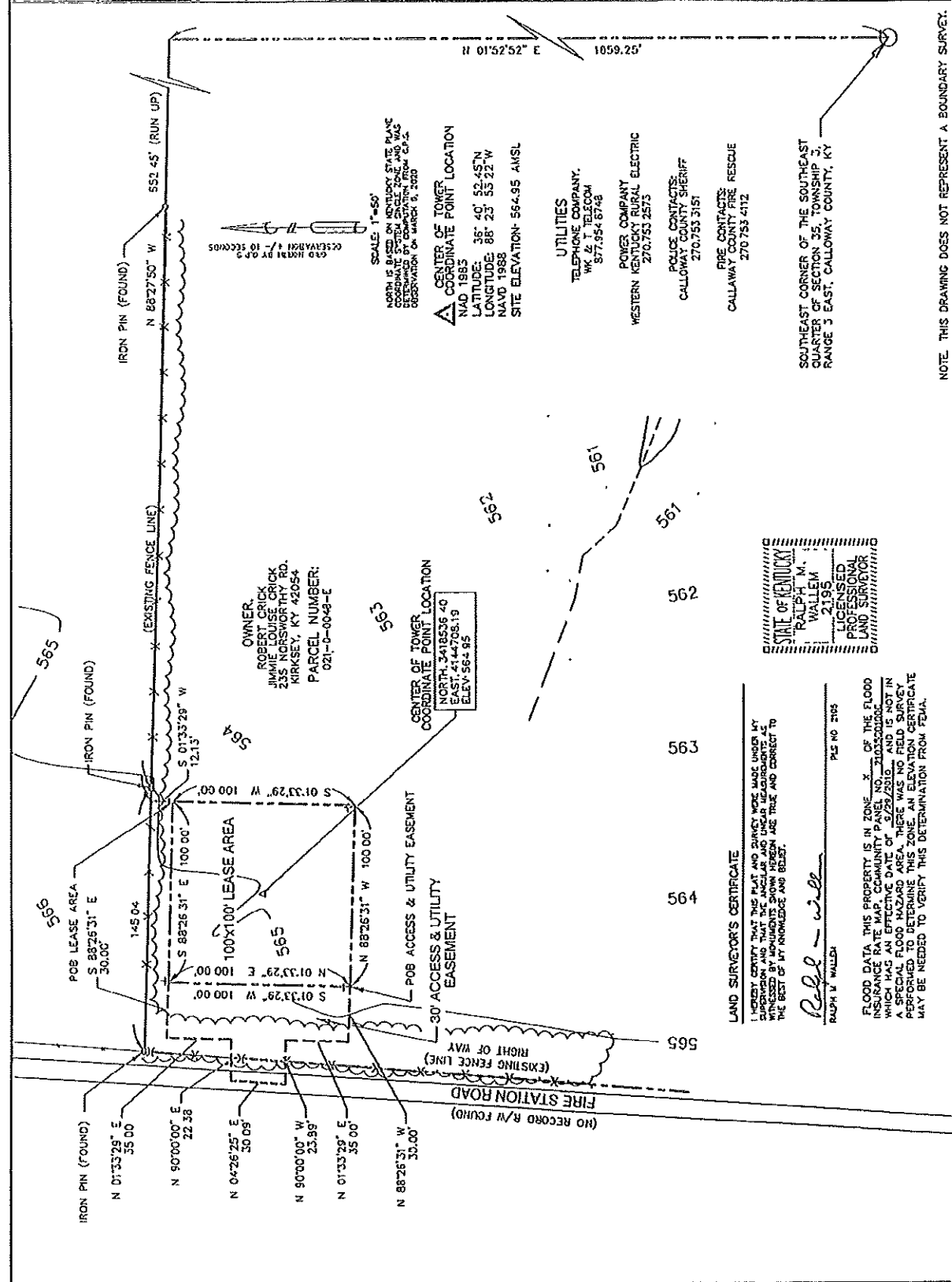
LATITUDE: 36° 40' 52.45" N
LONGITUDE: 88° 23' 55.22" W

DATE: 3.13.20

NO. 2707553 4172

TITLE: SURVEY PLAN

SHEET: 1 OF 2



SCALE: 1"=50'
 NORTH IS BASED ON KENTUCKY STATE PLANE
 COORDINATE SYSTEM SCALE 2002 AND WAS
 DETERMINED BY COMPUTATION FROM C.P.S.
 OBSERVATION OF MARCH 9, 2008

OWNER:
 ROBERT CRICK
 JIMMIE LOUISE CRICK
 235 NORSWORTHY RD.
 KIRKSEY, KY 42054
 PARCEL NUMBER:
 021-0-0048-E

UTILITY CONTACTS:
 TELEPHONE COMPANY,
 WK & T TELECOM
 877.954.6748
 POWER COMPANY
 WESTERN KENTUCKY RURAL ELECTRIC
 270.753.2573
 POLICE CONTACTS:
 CALLOWAY COUNTY SHERIFF
 270.753.3151
 FIRE CONTACTS:
 CALLOWAY COUNTY FIRE RESCUE
 270.753.4172

STATE OF KENTUCKY
 RALPH M. WALKER
 2195
 LICENSED
 PROFESSIONAL
 LAND SURVEYOR

LAND SURVEYOR'S CERTIFICATE
 I HEREBY CERTIFY THAT THE PLAT AND SURVEY WERE MADE UNDER MY
 SUPERVISION AND THAT THE ANGULAR AND LINEAR MEASUREMENTS AS
 WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO
 THE BEST OF MY KNOWLEDGE AND BELIEF.
 RALPH M. WALKER PLS NO 2195

NOTE: THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

ALTA COMMITMENT FOR TITLE INSURANCE
AND SETTLEMENT SERVICES

ORDER # 50008360
LOAN # V2W/EV Kirksey
EFFECTIVE DATE: 01/20/2020

TITLE TO SAID ESTATE OR INTEREST IN SAID LAND IS AT THE EFFECTIVE DATE HEREOF VESTED IN ROBERT CRICK, A ONE-HALF INTEREST, AND KAREN CRICK, A ONE-HALF INTEREST IN THE COUNTY OF CALLOWAY, STATE OF KENTUCKY AND DESCRIBED AS FOLLOWS:
SEE ATTACHED EXHIBIT A

SCHEDULE B - EXCEPTIONS
SECTION II - EXCEPTIONS
THE POLICIES OR POLICES TO BE ISSUED WILL CONTAIN EXCEPTIONS TO THE FOLLOWING UNLESS THE SAME ARE DISPOSED OF TO THE SATISFACTION OF THE COMPANY:
ITEMS 1 AND 2 - (NOT A SURVEYOR RELATED ITEM)

3. ANY ENCROACHMENT, ENCROACHMENT VIOLATION, VARIATION, OR ADVERSE CIRCUMSTANCE AFFECTING THE TITLE THAT WOULD BE DISCLOSED BY AN ACCURATE AND COMPLETE LAND SURVEY OF THE LAND (PARENT PARCEL NOT SURVEYED)

ITEMS 4 THRU 7 - (NOT A SURVEYOR RELATED ITEM)

8. SUBJECT TO SURVEY RECORDED 9/25/2018, SLIDE 5477, IN PLAT BOOK 56, PAGE 60, CALLOWAY COUNTY RECORDS (RECORDED SURVEY WAS USED TO PREPARE LEASE AREA AND ACCESS & UTILITY EASEMENT)
9. ATTENTION LOAN CLOSER, IMMEDIATELY UPON CLOSING, PLEASE NOTIFY ACCESS FOR MORTGAGE FILING INSTRUCTIONS. PLEASE CALL ACCESS (NOT A SURVEYOR RELATED ITEM).

DESCRIPTION OF PARENT PARCEL EXHIBIT A

ALL THAT PARCEL OF LAND IN THE COUNTY OF CALLOWAY AND COMMONWEALTH OF KENTUCKY AS MORE FULLY DESCRIBED IN DEED AND BOOK 809 PAGE 695 AND PARCEL # 021-0-0048-E, BEING KNOWN AND DESIGNATED AS

PARCEL 1
BEING A PORTION OF SECTION 35, T. 3, R. 3, EAST DESCRIBED AS BEGINNING AT THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF SAID SECTION, THENCE NORTH WITH THE OR SEC LINE AND WITH THE MURRAY-KIRKSEY ROAD 126.66 FEET TO A STAKE, THENCE WEST 39.09 FEET TO A STAKE, THENCE NORTH 14.12 FEET TO A STAKE, THENCE WEST 9 FEET TO A STAKE, THENCE SOUTH 14.12 FEET TO A STAKE, THENCE SOUTH 4 DEGREES WEST 84.06 FEET TO A STAKE, THENCE SOUTH 6 DEGREES EAST 42.42 FEET TO A STAKE IN THE SOUTH LINE OF SAID SEC. 35, THENCE EAST WITH SEC. LINE 46.34 FEET TO THE BEGINNING CONTAINING 39 ACRES AND 123 POLES, EXCEPT 8 1/2 ACRES SOLD OFF OF THE NORTH END TO ZOLLIE KORSWORTHY.

ALSO EXCEPT ONE ACRE LOCATED IN THE SOUTHEAST CORNER OF THE ABOVE DESCRIBED TRACT SAID ONE ACRE BEING 180 FEET NORTH AND SOUTH ALONG THE WEST SIDE OF SAID HIGHWAY AND BEING 242 FEET EAST AND WEST

- ALSO LESS AND EXCEPT
- (1) THAT TRACT OF LAND CONVEYED TO GERALD STONE, ET UX., BY DEED DATED OCTOBER 7, 1961, OF RECORD IN DEED BOOK 114, PAGE 243.
- (2) THAT TRACT OF LAND CONVEYED TO CECIL BAKER, ET UX., BY DEED DATED OCTOBER 7, 1961, OF RECORD IN DEED BOOK 114, PAGE 244.
- (3) THAT TRACT OF LAND CONVEYED TO HOMER CRASS, ET UX., BY DEED DATED OCTOBER 7, 1961 OF RECORD IN DEED BOOK 114, PAGE 245.

PARCEL 11:
BEING A PORTION OF SECTION 35, T. 3, R. 3, EAST, BEGINNING AT A POINT OF THE WEST SIDE OF THE MURRAY & KIRKSEY STATE HIGHWAY NO. 299, WHICH BEGINNING POINT OF 126.66 FEET NORTH OF THE S.E. CORNER OF THE S.E. Q. OF S. 35 T. 3 R. 3 EAST, THENCE WEST WITH CLOY'S NORTH LINE 39.09 FEET TO A STAKE, THENCE NORTH 14.12 FEET TO A STAKE, THENCE WEST 9 FEET TO A STAKE, THENCE SOUTH 14.12 FEET TO A STAKE, THENCE CONTINUING SOUTH 4 DEGREES WEST FAR ENOUGH TO MAKE (81/2) EIGHT AND ONE HALF ACRES HEREIN CONVEYED, THENCE EAST PARALLEL WITH NORTH LINE HEREOF ABOUT 46 FEET TO THE WEST SIDE OF SAID MURRAY & KIRKSEY STATE HIGHWAY THENCE NORTH WITH SAID HIGHWAY TO THE POINT OF BEGINNING, CONTAINING 8 1/2 ACRES.
ALSO EXCEPT THAT TRACT OF LAND CONVEYED TO JUDY L. USHER, A SINGLE PERSON BY DEED DATED JULY 9, 1973, OF RECORD IN BOOK 152, PAGE 1965 IN THE OFFICE OF THE CALLOWAY COUNTY CLERK

PARCEL NUMBER: 021-0-0048-E
BEING THE SAME PROPERTY ACQUIRED BY ROBERT CRICK, A ONE-HALF INTEREST, AND KAREN CRICK, A ONE-HALF INTEREST BY DEED OF CLAYBORN CRICK AND WIFE JIMMIE LOUISE CRICK, DATED 11/05/2009 AND RECORDED IN BOOK / PAGE / 809 / 695

DESCRIPTION OF LEASE AREA

A PART OF SECTION 35, TOWNSHIP 3, RANGE 3 EAST, CALLOWAY COUNTY, KENTUCKY AND MORE PARTICULARLY DESCRIBED AS FOLLOWS

COMMENCING AT THE SOUTHEAST CORNER OF THE SOUTHEAST QUARTER OF SAID SECTION 35, THENCE ON AND ALONG THE EAST QUARTER SECTION LINE NORTH 01 DEGREES 52 MINUTES 52 SECONDS EAST 1859.25 FEET, THENCE NORTH 88 DEGREES 27 MINUTES 50 SECONDS WEST 852.45 FEET, THENCE SOUTH 01 DEGREES 33 MINUTES 29 SECONDS EAST 12.13 FEET TO THE TRUE PLACE OF BEGINNING, THENCE CONTINUING SOUTH 01 DEGREES 33 MINUTES 29 SECONDS WEST 100.00 FEET; THENCE NORTH 88 DEGREES 26 MINUTES 31 SECONDS WEST 100.00 FEET; THENCE SOUTH 88 DEGREES 26 MINUTES 31 SECONDS EAST 100.00 FEET TO THE TRUE PLACE OF BEGINNING AND CONTAINING 10,000 SQUARE FEET (0.23 ACRES), MORE OR LESS.

DESCRIPTION OF 30' ACCESS AND UTILITY EASEMENT

A PART OF SECTION 35, TOWNSHIP 3, RANGE 3 EAST, CALLOWAY COUNTY, KENTUCKY AND MORE PARTICULARLY DESCRIBED AS FOLLOWS

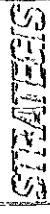
COMMENCING AT THE SOUTHEAST CORNER OF THE SOUTHEAST QUARTER OF SAID SECTION 35, THENCE ON AND ALONG THE EAST QUARTER SECTION LINE NORTH 01 DEGREES 52 MINUTES 52 SECONDS EAST 1859.25 FEET, THENCE NORTH 88 DEGREES 27 MINUTES 50 SECONDS WEST 852.45 FEET; THENCE SOUTH 01 DEGREES 33 MINUTES 29 SECONDS EAST 12.13 FEET, THENCE CONTINUING SOUTH 01 DEGREES 33 MINUTES 29 SECONDS WEST 100.00 FEET; THENCE NORTH 88 DEGREES 26 MINUTES 31 SECONDS WEST 100.00 FEET TO THE TRUE PLACE OF BEGINNING; THENCE CONTINUING NORTH 88 DEGREES 26 MINUTES 31 SECONDS WEST 30.00 FEET, THENCE NORTH 01 DEGREES 33 MINUTES 29 SECONDS EAST 35.00 FEET, THENCE NORTH 90 DEGREES 00 MINUTES 00 SECONDS WEST 23.89 FEET TO THE CENTER OF FIRE STATION ROAD, THENCE ALONG SAID CENTER OF ROAD NORTH 04 DEGREES 26 MINUTES 25 SECONDS EAST 39.09 FEET, THENCE NORTH 90 DEGREES 00 MINUTES 00 SECONDS EAST 22.38 FEET, THENCE SOUTH 88 DEGREES 26 MINUTES 31 SECONDS EAST 35.00 FEET, THENCE SOUTH 88 DEGREES 26 MINUTES 31 SECONDS WEST 100.00 FEET; THENCE SOUTH 01 DEGREES 33 MINUTES 29 SECONDS WEST 30.00 FEET; THENCE SOUTH 01 DEGREES 33 MINUTES 29 SECONDS WEST 100.00 FEET TO THE TRUE PLACE OF BEGINNING AND CONTAINING 3684 SQUARE FEET, (0.08 ACRES), MORE OR LESS

LAND SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE PLAT AND SURVEY WERE MADE UNDER MY SUPERVISION AND THAT THE ANGLES AND LINE MEASUREMENTS AS SHOWN THEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Ralph L. Wallen
RALPH L. WALLEN
P.L.S. NO. 2195

STATE OF KENTUCKY
COUNTY OF CALLOWAY
I, WALLEM,
LICENSED PROFESSIONAL
LAND SURVEYOR
NO. 2195



815 SUPERIOR AVE. E
SUITE 1912
CLEVELAND OHIO 44114

STATERS
SERVICES INC.
20192031898

PROPERTY OWNER	ROBERT CRICK JIMMIE LOUISE CRICK 235 NORWORTHY RD KIRKSEY, KY 42054
SECTION/TOWNSHIP/RANGE	SEC 35 T. 3. R. 3E
COUNTY	CALLOWAY COUNTY
PAGE	021-0-0048-E
LIMITS	35° 40' 52" S 45" W 88° 23' 53" E 22" W
DATE	3.13.20
BY	EV KIRKSEY
FOR	FIRE STATION DRIVE KIRKSEY, KY 42054
AREA	10000 SQ. FT.

NOTE: THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

PROPERTY LINES TO TOWER
 62.05' TO THE NORTH LINE
 90.87' TO THE WEST LINE
 704.95' TO THE EAST LINE
 2025' TO THE SOUTH LINE

30' ACCESS & UTILITY EASEMENT

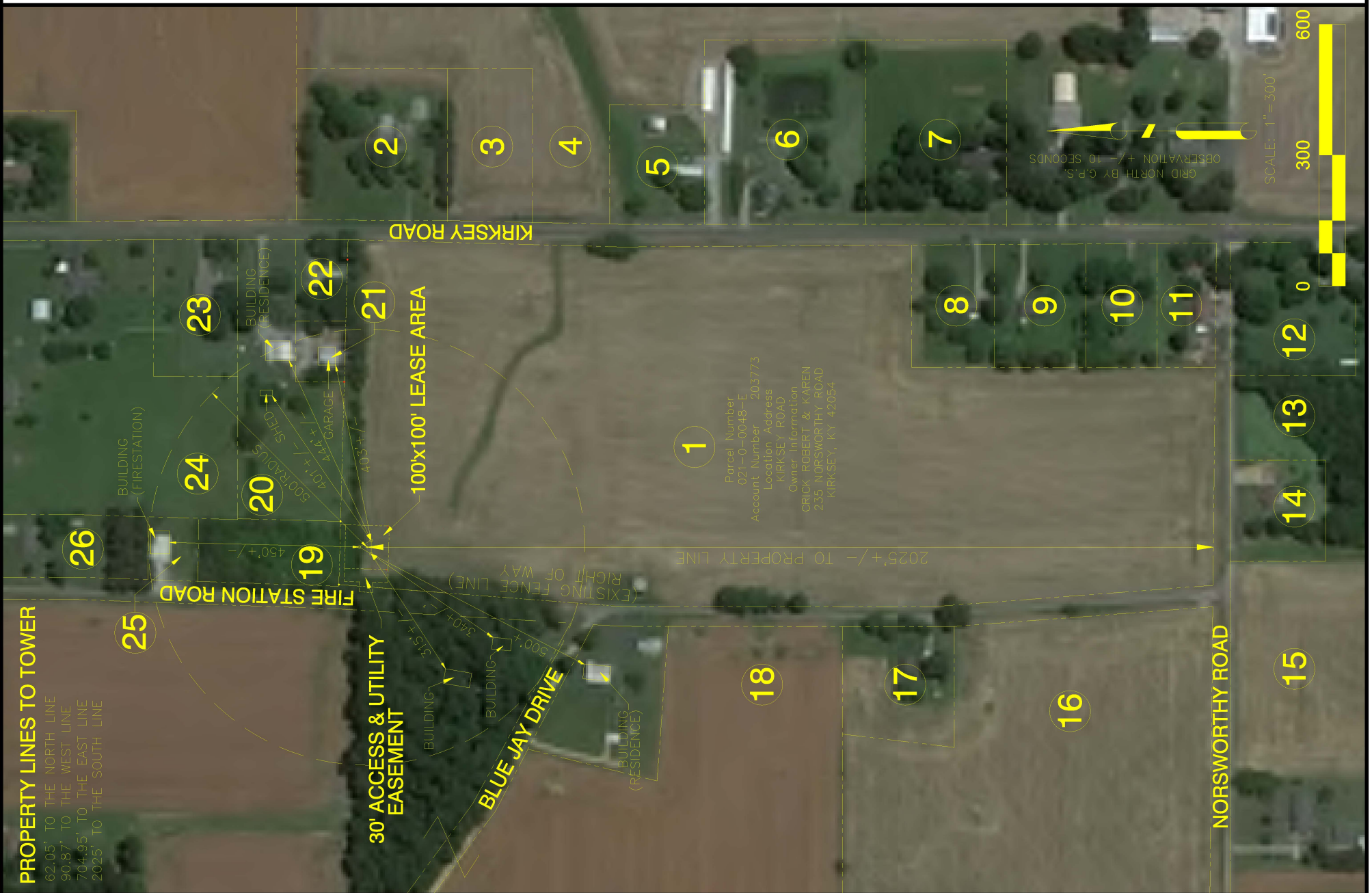
100'x100' LEASE AREA

BLUE JAY DRIVE

FIRE STATION ROAD

KIRKSEY ROAD

NORSWORTHY ROAD



1
 Parcel Number
 021-0-0048-E
 Location Address
 KIRKSEY ROAD
 Owner Information
 CRICK ROBERT & KAREN
 235 NORSWORTHY ROAD
 KIRKSEY, KY 42054

2
 Parcel Number
 021-0-0066
 Location Address
 2786 KIRKSEY ROAD
 Owner Information
 WORKMAN CHARLES & PATRICIA
 2786 KIRKSEY ROAD
 MURRAY, KY 42071

3
 Parcel Number
 021-0-0050-E
 Location Address
 KIRKSEY ROAD
 Owner Information
 BRYANT BOBBIE S TRUST
 17750 LONG RUN HILL PLACE
 LOUISVILLE, KY 40245

4
 Parcel Number
 021-0-0050-E
 Location Address
 KIRKSEY ROAD
 Owner Information
 BRYANT BOBBIE S TRUST
 17750 LONG RUN HILL PLACE
 LOUISVILLE, KY 40245

5
 Parcel Number
 021-0-0050
 Location Address
 KIRKSEY ROAD
 Owner Information
 SMITH WILLIAM H JR &
 SMITH SHIRLEY TRUST
 2458 KIRKSEY ROAD
 MURRAY, KY 42071

6
 Parcel Number
 021-0-0081
 Location Address
 2632 KIRKSEY ROAD
 Owner Information
 CAPPs JACKIE L & CAPPs CHARLES E
 2632 KIRKSEY ROAD
 MURRAY, KY 42071

7
 Parcel Number
 021-0-0065
 Location Address
 2546 KIRKSEY ROAD
 Owner Information
 LAX ANTHONY NEIL & LAX APRIL LEIGH
 2546 KIRKSEY ROAD
 MURRAY, KY 42071

8
 Parcel Number
 021-0-0048-C
 Location Address
 2551 KIRKSEY ROAD
 Owner Information
 PEARSALL JOHN FREDRIC
 & JORDAN MARIE
 2551 KIRKSEY RD
 MURRAY, KY 42071

9
 Parcel Number
 021-0-0046
 Location Address
 2523 KIRKSEY ROAD
 Owner Information
 ENGLAND VALARIE
 1751 HALE ROAD
 MURRAY, KY 42071

10
 Parcel Number
 021-0-0048-A
 Location Address
 2487 KIRKSEY ROAD
 Owner Information
 EDMONSON RANDALL & CHRISTY
 2487 KIRKSEY ROAD
 MURRAY, KY 42071

11
 Parcel Number
 021-0-0047
 Location Address
 2453 KIRKSEY ROAD
 Owner Information
 COCHRAN STEVE
 2453 KIRKSEY ROAD
 MURRAY, KY 42071

12
 Parcel Number
 021-0-0057-C
 Location Address
 21-57
 Owner Information
 RANSEY CARLOS D & NORAA U
 MURRAY, KY 42071

13
 Parcel Number
 021-0-0056-A
 Location Address
 235 NORSWORTHY RD
 Owner Information
 CRICK ROBERT & KAREN
 235 NORSWORTHY ROAD
 KIRKSEY, KY 42054

14
 Parcel Number
 021-0-0056-A
 Location Address
 235 NORSWORTHY ROAD
 Owner Information
 CRICK ROBERT & KAREN
 235 NORSWORTHY ROAD
 KIRKSEY, KY 42054

15
 Parcel Number
 021-0-0056-A
 Location Address
 235 NORSWORTHY ROAD
 Owner Information
 CRICK ROBERT & KAREN
 235 NORSWORTHY ROAD
 KIRKSEY, KY 42054

16
 Parcel Number
 021-0-0046
 Location Address
 FIRE STATION DRIVE
 Owner Information
 KAREN & CRICK ROBERT ALAN
 235 NORSWORTHY ROAD
 KIRKSEY, KY 42054

17
 Parcel Number
 021-0-0046-A
 Location Address
 129 FIRE STATION DRIVE
 Owner Information
 DOWNEY MARIYNN K
 129 FIRE STATION ROAD
 KIRKSEY, KY 42054

18
 Parcel Number
 021-0-0045
 Location Address
 255 FIRE STATION DRIVE
 Owner Information
 LESLIE AILEEN & DANNY M
 249 WASHER ROAD
 KIRKSEY, KY 42054

19
 Parcel Number
 021-0-0048
 Location Address
 FIRE STATION DRIVE
 Owner Information
 TURNER JUDY
 1503 DUDLEY
 MURRAY, KY 42071

20
 Parcel Number
 021-0-0048-H
 Location Address
 2851 KIRKSEY ROAD
 Owner Information
 DESHIELDS MINDY D & SCOTT A
 2851 KIRKSEY ROAD
 MURRAY, KY 42071

21
 Parcel Number
 021-0-0048-G
 Location Address
 KIRKSEY ROAD
 Owner Information
 SMITH TAMMY & ET AL
 195 DOGWOOD LANE
 KIRKSEY, KY 42054

22
 Parcel Number
 021-0-0048-D
 Location Address
 2807 KIRKSEY ROAD
 Owner Information
 GRUBBS AMY JEAN
 2807 KIRKSEY ROAD
 MURRAY, KY 42071

23
 Parcel Number
 021-0-0049-A
 Location Address
 * 21-48H
 Owner Information
 DESHIELDS MINDY D & SCOTT A

24
 Parcel Number
 021-0-0049
 Location Address
 2907 KIRKSEY ROAD
 Owner Information
 LESLIE DEWEY V
 2907 KIRKSEY ROAD
 MURRAY, KY 42071

25
 Parcel Number
 021-0-0048-F
 Location Address
 434 FIRESTATION DRIVE
 Owner Information
 CALLOWAY COUNTY FIRE
 RESCUE #5
 PO BOX 612
 MURRAY, KY 42071

26
 Parcel Number
 021-0-0075
 Location Address
 127 WASHER ROAD
 Owner Information
 WATERS ROBERT O III &
 COLON AMANDA L
 127 WASHER ROAD
 KIRKSEY, KY 42054



815 SUPERIOR AVE., E
 SUITE 1812
 CLEVELAND, OHIO 44114



NUMBER: 20192031898

SITE NAME: EV KIRKSEY

SITE ADDRESS: FIRE STATION DRIVE
 KIRKSEY, KY 42054

LEASE AREA: 10000 SQ. FT.

PROPERTY OWNER: ROBERT CRICK
 JIMMIE LOUISE CRICK
 235 NORSWORTHY RD.
 KIRKSEY, KY 42054

SECTION/TOWNSHIP/RANGE
 SEC 35, T3, R3E

COUNTY: CALLOWAY COUNTY

PARCEL: 021-0-0048-E

LATITUDE: 36° 40' 52.45"N
 LONGITUDE: 88° 23' 53.22"W

DWG BY: GVV
 CHKD BY: RMW
 DATE: 10.25.22

NO. REVISION/ISSUE DATE:

1. ADJOINERS 10.16.23

TITLE: 500' RADIUS PLAN

SHEET: 1 OF 1

LAND SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT AND SURVEY WERE MADE UNDER MY SUPERVISION AND THAT THE ANGULAR AND LINEAR MEASUREMENTS AS WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Ralph M. Wallem
 RALPH M. WALLEM

PLS NO. 2195

NOTE: THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.



Notification Listing

Parcel #0214-0-0048-E
 CRICK ROBERT & KAREN
 235 NORSWORTHY ROAD
 KIRKSEY, KY 42054

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Homestead\Disability Exemption Form

Religious Application



Vehicle Affidavit

Parcel Summary (Limited)
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[Click here for information on obtaining a user account.](#)

Parcel Summary
 Owner Information
 CRICK ROBERT & KAREN
 235 NORSWORTHY ROAD
 KIRKSEY, KY 42054

Land Information
 Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
11/5/2009	\$0			CRICK CLAYBORN	CRICK CLAYBORN
11/5/2009	\$0	809	695	CRICK ROBERT & KAREN	CRICK CLAYBORN

Information

 Calloway County, KY
 101 S. 5th St
 Murray, KY 42071

 Property Valuation Administrator
 Nikki McMillen-Crouch
 (270) 753-3482
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Parcel #021-0-0048-G
 SMITH TAMMY & ET AL
 195 DOGWOOD LANE
 KIRKSEY, KY 42054

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Homestead\Disability Exemption Form

Religious Application



Vehicle Affidavit

Parcel Summary (Limited)
 This Parcel Summary (Limited) information is password protected.
[Click here for information on obtaining a user account.](#)

Parcel Summary
 Owner Information
 SMITH TAMMY & ET AL
 195 DOGWOOD LANE
 KIRKSEY, KY 42054

Land Information
 Improvements
 Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
12/28/2019	\$10,000	1198	642	SMITH TAMMY & ET AL	WILSON BRUCE & LISA
3/3/2006	\$8,500	634	131	WILSON BRUCE & LISA	GOFORTH CLARENCE SR

Information

 Calloway County, KY
 101 S. 5th St
 Murray, KY 42071

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Parcel 021-0-0049-A
 DESHIELDS MINDY D & SCOTT A
 2851 KIRKSEY ROAD
 MURRAY, KY 42071

Parcel ID - 021-0-0049-A
 Alt Id - 203778
 Address - * 21-48H
 Owner - DESHIELDS MINDY
 D & SCOTT A
 View: [Report](#) | [Google Maps](#)

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Homestead\Disability Exemption Form
 Religious Application
 Vehicle Affidavit
 Parcel Summary (Limited)
Parcel Summary
 Parcel Number: 021-0-0049-A
 Account Number: 203778
 Location Address: * 21-48H
 Description: (Note: Not to be used on legal documents)
 Class: RESIDENTIAL (10)
 Tax District: 10-County
[View Map](#)

 Owner Information: DESHIELDS MINDY D & SCOTT A
 Land Information

Information

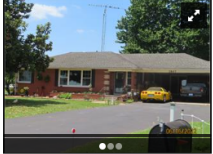
 Calloway County, KY
 101 S. 5th St
 Murray, KY 42071

 Property Valuation Administrator
 Nikki McWilliam-Crouch
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Parcel # 021-0-0049
 LESLIE DEWEY V
 2907 KIRKSEY ROAD
 MURRAY, KY 42071

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Homestead\Disability Exemption Form
 Religious Application
 Vehicle Affidavit
 Parcel Summary (Limited)
Parcel Summary
 Parcel Number: 021-0-0049
 Account Number: 203777
 Location Address: 2907 KIRKSEY ROAD
 Description: 2907 KIRKSEY ROAD
 (Note: Not to be used on legal documents)
 Class: RESIDENTIAL (10)
 Tax District: 10-County
[View Map](#)

 Owner Information: LESLIE DEWEY V
 2907 KIRKSEY ROAD
 MURRAY, KY 42071
 Land Information
 Improvements
Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
7/24/2018	\$0	1181	693	LESLIE DEWEY V	LESLIE DEWEY V & DEBBIE L

Information

 Calloway County, KY
 101 S. 5th St
 Murray, KY 42071

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 Nikki McWilliam-Crouch
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Parcel #021-0-0048-F
 CALLOWAY COUNTY FIRE RESCUE #5
 PO BOX 612
 MURRAY, KY 42071

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Home/D\Disability Exemption Form
 Religious Application
 Vehicle Affidavit
 Parcel Summary (Limited)
Parcel Summary

Parcel Number: 021-0-0048-F
 Account Number: 203774
 Location Address: 434 FIRESTATION DRIVE
 Description: 434 FIRESTATION DRIVE
 (Note: Not to be used on legal documents)
 Class: EXEMPT COUNTY (93)
 Tax District: 10-County
[View Map](#)




Owner Information
 CALLOWAY COUNTY FIRE RESCUE #5
 PO BOX 612
 MURRAY, KY 42071

Land Information
Improvements
Sales Information


Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
8/1/1992	\$0			HAROLD TURNER	TURNER HAROLD
8/1/1992	\$0			HAROLD TURNER	HAROLD TURNER
8/1/1992	\$0	183	403	CALLOWAY COUNTY FIRE RESCUE	HAROLD TURNER

Columns

Information



Calloway County, KY
 101 S. 5th St
 Murray, KY 42071



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Parcel #021-0-0045
 LESLIE AILEEN & DANNY M
 249 WASHER ROAD
 KIRKSEY, KY 42054

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Home/D\Disability Exemption Form
 Religious Application
 Vehicle Affidavit
 Parcel Summary (Limited)
Parcel Summary

Parcel Number: 021-0-0045
 Account Number: 203762
 Location Address: 255 FIRE STATION DRIVE
 Description: 21-45 255 FIRE STATION DRIVE
 (Note: Not to be used on legal documents)
 Class: FARM (20)
 Tax District: 10-County
[View Map](#)




Owner Information
 LESLIE AILEEN & DANNY M
 249 WASHER ROAD
 KIRKSEY, KY 42054

Land Information
Improvements
Sales Information


Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
8/21/2015	\$0	1062	216	LESLIE AILEEN & DANNY M	DELANEY HEATHER
8/21/2015	\$0	1062	212	DELANEY HEATHER	LESLIE AILEEN
8/28/2014	\$219,436	1023	301	LESLIE AILEEN	PALMER THOMAS HUGH

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Information



Calloway County, KY
 101 S. 5th St
 Murray, KY 42071



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Parcel # 021-0-0046-A
DOWNEY MARILYNN K
129 FIRE STATION ROAD
KIRKSEY, KY 42054

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[Vehicle Affidavit](#)
[Parcel Summary \(Limited\)](#)
Parcel Summary

Parcel Number: 021-0-0046-A
 Account Number: 203766
 Location Address: 129 FIRE STATION DRIVE
 Description: 129 FIRE STATION DRIVE
 (Note: Not to be used on legal documents)
 Class: RESIDENTIAL (10)
 Tax District: 10-County
[View Map](#)




Owner Information
 DOWNEY MARILYNN K
 129 FIRE STATION ROAD
 KIRKSEY, KY 42054

Land Information
Improvements
Sales Information


Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
2/7/2002	\$35,000			CLAYBORN CRICK	CLAYBORN CRICK
2/7/2002	\$35,000	416	487	DOWNEY MARILYNN K	CLAYBORN CRICK

Columns

Information



Calloway County, KY
101 S. 5th St
Murray, KY 42071



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Parcel #021-0-0046
CRICK KAREN & CRICK ROBERT ALAN
235 NORSWORTHY ROAD
KIRKSEY, KY 42054

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[Religious Application](#)
[Vehicle Affidavit](#)
[Parcel Summary \(Limited\)](#)
Parcel Summary

Parcel Number: 021-0-0046
 Account Number: 203765
 Location Address: FIRE STATION DRIVE
 Description: FIRE STATION DRIVE
 (Note: Not to be used on legal documents)
 Class: FARM (20)
 Tax District: 10-County
[View Map](#)


Owner Information
 CRICK KAREN & CRICK ROBERT ALAN
 235 NORSWORTHY ROAD
 KIRKSEY, KY 42054

Land Information
Sales Information

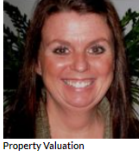
Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
2/19/2018	\$53,000	1165	83	CRICK KAREN &	CRICK ROBERT & KAREN
11/5/2009	\$0			CRICK ROBERT & KAREN	CRICK CLAYBORN
11/1/2000	\$70,000			CRICK CLAYBORN	PIERCE FRANCES
1/1/1900	\$0			PIERCE FRANCES	

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Calloway County, KY
101 S. 5th St
Murray, KY 42071



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Parcel #021-0-0056-A

- ▣ Homestead\Disability Exemption Form
- ▣ Religious Application
- ▣ Vehicle Affidavit
- ▣ Parcel Summary (Limited)
- ▣ Parcel Summary

Parcel Number 021-0-0056-A
 Account Number 203798
 Location Address 235 NORSWORTHY ROAD
 Description 235 NORSWORTHY ROAD
 (Note: Not to be used on legal documents)
 Class FARM (20)
 Tax District 10-County

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Information



Calloway County, KY
 101 S. 5th St
 Murray, KY 42071



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Owner Information

CRICK ROBERT & KAREN
 235 NORSWORTHY ROAD
 KIRKSEY, KY 42054

Land Information

Improvements

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
11/5/2009	\$0			CRICK CLAYBURN	CRICK CLAYBURN
11/5/2009	\$0	809	691	CRICK ROBERT & KAREN	CRICK CLAYBURN

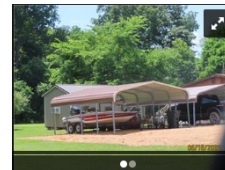
Parcel # 021-0-0056-B

JOHNSTON DARREN W
 105 NORSWORTHY ROAD
 KIRKSEY, KY 42054

- ▣ Homestead\Disability Exemption Form
- ▣ Religious Application
- ▣ Vehicle Affidavit
- ▣ Parcel Summary (Limited)
- ▣ Parcel Summary

Parcel Number 021-0-0056-B
 Account Number 203799
 Location Address 105 NORSWORTHY ROAD
 Description 105 NORSWORTHY ROAD INCLUDES MOBILE HOME
 (Note: Not to be used on legal documents)
 Class RESIDENTIAL (10)
 Tax District 10-County

[View Map](#)



Information



Calloway County, KY
 101 S. 5th St
 Murray, KY 42071



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Owner Information

JOHNSTON DARREN W
 105 NORSWORTHY ROAD
 KIRKSEY, KY 42054

Land Information

Improvements

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
12/17/2020	\$17,000	1289	249	JOHNSTON DARREN W	JOHNSTON WILLIAM R & DARREN W
12/17/2020	\$0	1289	246	JOHNSTON WILLIAM R & DARREN W	JOHNSTON EVELYN
2/1/1973	\$8,500			HARLEY BOLEN	HARLEY BOLEN
2/1/1973	\$8,500	152	112	JOHNSTON EVELYN	HARLEY BOLEN

Parcel #021-0-0057-C
 RANSEY CARLOS D & NORAA U
 2397 KIRKSEY ROAD
 MURRAY, KY 42071



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- Homestead/Disability Exemption Form
- Religious Application
- Vehicle Affidavit
- Parcel Summary (Limited)
- Parcel Summary
 - Parcel Number: 021-0-0057-C
 - Account Number: 203804
 - Location Address: * 21-57
 - Description: (Note: Not to be used on legal documents)
 - Class: RESIDENTIAL (10)
 - Tax District: 10-County
 - View Map
- Owner Information
 - RANSEY CARLOS D & NORAA U
- Land Information
- Valuation
- Recent Sales In Area

Information

Calloway County, KY
 101 S. 5th St
 Murray, KY 42071

Property Valuation Administrator
 Nikki McMillen-Crouch
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- Homestead/Disability Exemption Form
- Religious Application
- Vehicle Affidavit
- Parcel Summary (Limited)
- Parcel Summary
 - Parcel Number: 021-0-0057
 - Account Number: 203804
 - Location Address: 2397 KIRKSEY ROAD
 - Description: (Note: Not to be used on legal documents)
 - Class: RESIDENTIAL (10)
 - Tax District: 10-County
 - View Map
- Owner Information
 - RANSEY CARLOS D & NORAA U
 - 2397 KIRKSEY ROAD
 - MURRAY, KY 42071
- Land Information
- Improvements
- Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
8/3/2013	\$79,000	979	309	RANSEY CARLOS D & NORAA U	WAYNE EDWIN KEITH
8/3/2014	\$0			WAYNE EDWIN KEITH	BAZZELL HOWARD J
1/3/1990	\$0			BAZZELL HOWARD J	

Information

Calloway County, KY
 101 S. 5th St
 Murray, KY 42071

Property Valuation Administrator
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Parcel # 021-0-0047
 COCHRAN STEVE
 2453 KIRKSEY ROAD
 MURRAY, KY 42071

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- Homestead/Disability Exemption Form
- Religious Application
- Vehicle Affidavit
- Parcel Summary (Limited)
- Parcel Summary
 - Parcel Number: 021-0-0047
 - Account Number: 203767
 - Location Address: 2453 KIRKSEY ROAD
 - Description: 2453 KIRKSEY ROAD (Note: Not to be used on legal documents)
 - Class: RESIDENTIAL (10)
 - Tax District: 10-County
 - View Map
- Owner Information
 - COCHRAN STEVE
 - 2453 KIRKSEY ROAD
 - MURRAY, KY 42071
- Land Information
- Improvements
- Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
6/10/2020	\$70,000	1257	659	COCHRAN STEVE	COCHRAN VICKI
11/7/2018	\$70,000	1192	466	COCHRAN VICKI	COCHRAN STEPHEN WAYNE
11/29/2011	\$0			COCHRAN STEPHEN WAYNE	COCHRAN STEVE W
5/1/1994	\$51,000			COCHRAN STEVE W	HENSON LOUIE F
12/1/1979	\$26,500			HENSON LOUIE F	GARY W PRICE

Information

Calloway County, KY
 101 S. 5th St
 Murray, KY 42071

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 Nikki McMillen-Crouch
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Parcel #021-0-0048-A
 EDMONSON RANDALL & CHRISTY
 2487 KIRKSEY ROAD
 MURRAY, KY 42071

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Home/D/Disability Exemption Form
 Religious Application
 Vehicle Affidavit
 Parcel Summary (Limited)
Parcel Summary
 Parcel Number: 021-0-0048-A
 Account Number: 203749
 Location Address: 2487 KIRKSEY ROAD
 Description: 2487 KIRKSEY ROAD
 Class: RESIDENTIAL (10)
 Tax District: 10-County
 (Note: Not to be used on legal documents)
[View Map](#)




Owner Information
 EDMONSON RANDALL & CHRISTY
 2487 KIRKSEY ROAD
 MURRAY, KY 42071

Land Information
Improvements
Sales Information


Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
5/1/2013	\$68,900	947	358	EDMONSON RANDALL & CHRISTY	J P MORGAN CHASE BANK NATIONAL ASSO
2/14/2013	\$49,000	956	307	J P MORGAN CHASE BANK NATIONAL ASSO	BROWN GARY KEVIN & SHEILA R
10/4/2004	\$76,900	564	168	BROWN GARY KEVIN & SHEILA R	ARMSTRONG BRENDA GAY

Columns ▾

Information



Calloway County, KY
 101 S. 5th St
 Murray, KY 42071



Property Valuation
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Parcel #021-0-0048-B
 ENGLAND VALARIE
 1751 HALE ROAD
 MURRAY, KY 42071

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Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Mailing Address Change Home Homestead Application Religious Application More

Home/D/Disability Exemption Form
 Religious Application
 Vehicle Affidavit
 Parcel Summary (Limited)
Parcel Summary
 Parcel Number: 021-0-0048-B
 Account Number: 203770
 Location Address: 2523 KIRKSEY ROAD
 Description: 2523 KIRKSEY ROAD
 Class: RESIDENTIAL (10)
 Tax District: 10-County
 (Note: Not to be used on legal documents)
[View Map](#)




Owner Information
 ENGLAND VALARIE
 1751 HALE ROAD
 MURRAY, KY 42071

Land Information
Improvements
Sales Information


Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
9/15/2022	\$64,000	1388	64	ENGLAND VALARIE	ENGLAND VALARIE
7/12/2021	\$0	1378	693	ENGLAND VALARIE	ENGLAND VALARIE & LESLIE DEBORAH LYNN
12/6/2019	\$64,000	1236	401	ENGLAND VALARIE & LESLIE DEBORAH LY	LESLIE DEBORAH LYNN ET AL
9/26/2019	\$0	1228	151	LESLIE DEBORAH LYNN ET AL	MILLS JOHN W & LILLIAN I
10/12/2004	\$64,000	567	278	MILLS JOHN W & LILLIAN I	ARMSTRONG BILLY R

Columns ▾

Information



Calloway County, KY
 101 S. 5th St
 Murray, KY 42071



Property Valuation
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Announcements

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Parcel # 021-0-0048-C
 PEARSALL JOHN FREDRIC & JORDAN MARIE
 2551 KIRKSEY RD
 MURRAY, KY 42071


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[Religious Application](#)
[Homestead Application](#)
[Tax Estimator](#)
[Mailing Address Change](#)
[Home](#)

[Homestead\Disability Exemption Form](#)
[Religious Application](#)
[Vehicle Affidavit](#)
[Parcel Summary \(Limited\)](#)
[Parcel Summary](#)

Parcel Number: 021-0-0048-C
 Account Number: 203771
 Location Address: 2551 KIRKSEY ROAD
 Description: 2551 KIRKSEY ROAD
 Class: RESIDENTIAL (10)
 Tax District: 10-County
(Note: Not to be used on legal documents)
[View Map](#)




[Owner Information](#)
 PEARSALL JOHN FREDRIC & JORDAN MARIE
 2551 KIRKSEY RD
 MURRAY, KY 42071


[Land Information](#)
[Improvements](#)
[Sales Information](#)

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
6/20/2023	\$198,000	1420	642	PEARSALL JOHN FREDRIC & JORDAN MARIE	FULKS JOSEPH DANIEL &
10/25/2016	\$60,000	1111	722	FULKS JOSEPH DANIEL &	SECRETARY OF HOUSING
6/9/2016	\$67,950	1095	144	SECRETARY OF HOUSING	MIDFIRST BANK
3/23/2016	\$69,750	1085	149	MIDFIRST BANK	HALE STANLEY C & TRACEY D

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Calloway County, KY
 101 S. 5th St
 Murray, KY 42071



Property Valuation
 Administrator
 Nikki McMillen-Crouch
 (270) 753-3482

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Parcel #021-0-0065
 LAX ANTHONY NEIL & LAX APRIL LEIGH
 2546 KIRKSEY ROAD
 MURRAY, KY 42071

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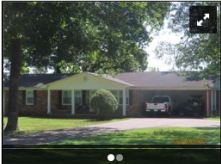
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[Parcel Summary](#)

Parcel Number: 021-0-0065
 Account Number: 203826
 Location Address: 2546 KIRKSEY ROAD
 Description: 2546 KIRKSEY ROAD
 Class: RESIDENTIAL (10)
 Tax District: 10-County
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[Owner Information](#)
 LAX ANTHONY NEIL & LAX APRIL LEIGH
 2546 KIRKSEY ROAD
 MURRAY, KY 42071


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Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
6/12/2017	\$60,000	1138	283	LAX ANTHONY NEIL &	WEBB PATRICK & CANDY
9/21/2011	\$68,000			WEBB PATRICK & CANDY	PATTON DWIGHT BROOK & PAMELA R
4/29/2003	\$61,000	484	296	PATTON DWIGHT BROOK & PAMELA R	FURR LONNIE C

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 101 S. 5th St
 Murray, KY 42071



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Parcel #021-0-0081
 CAPPS JACKIE L & CAPPS CHARLES E
 2632 KIRKSEY ROAD
 MURRAY, KY 42071

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- Religious Application
- Vehicle Affidavit
- Parcel Summary (Limited)
- Parcel Summary


Parcel Number	021-0-0081
Account Number	203942
Location Address	2632 KIRKSEY ROAD
Description	2632 KIRKSEY ROAD
<i>(Note: Not to be used on legal documents)</i>	
Class	RESIDENTIAL (10)
Tax District	10-County

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CAPPS JACKIE L & CAPPS CHARLES E
 2632 KIRKSEY ROAD
 MURRAY, KY 42071
- Land Information
- Improvements
- Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
11/2/2017	\$68,000	1155	272	CAPPS JACKIE L &	CAPPS JACKIE L
11/1/1999	\$56,000			CAPPS JACKIE L	WILSON JOHNNY H
3/1/1977	\$16,200			WILSON JOHNNY H	TEDDY RAY HOPKINS
1/1/1900	\$0			TEDDY RAY HOPKINS	

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Parcel #021-0-0050-D
 SMITH WILLIAM DALE
 2458 KIRKSEY ROAD
 MURRAY, KY 42071

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- Homestead\Disability Exemption Form
- Religious Application
- Vehicle Affidavit
- Parcel Summary (Limited)
- Parcel Summary


Parcel Number	021-0-0050-D
Account Number	203783
Location Address	KIRKSEY ROAD
Description	KIRKSEY ROAD
<i>(Note: Not to be used on legal documents)</i>	
Class	RESIDENTIAL (10)
Tax District	10-County

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- Owner Information


SMITH WILLIAM DALE
 2458 KIRKSEY ROAD
 MURRAY, KY 42071
- Land Information
- Improvements
- Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
6/21/2012	\$0			SMITH WILLIAM D	SMITH WILLIAM D
6/21/2012	\$0	925	90	SMITH WILLIAM DALE	SMITH WILLIAM D

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Calloway County, KY
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Parcel #021-0-0050
 SMITH WILLIAM H JR & SMITH SHIRLEY TRUST
 2458 KIRKSEY ROAD
 MURRAY, KY 42071

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Parcel Summary
 Parcel Number: 021-0-0050
 Account Number: 203779
 Location Address: KIRKSEY ROAD
 Description: KIRKSEY ROAD
(Note: Not to be used on legal documents)
 Class: FARM (20)
 Tax District: 10-County
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Owner Information
 SMITH WILLIAM H JR & SMITH SHIRLEY TRUST
 2458 KIRKSEY ROAD
 MURRAY, KY 42071


Land Information
Improvements
Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
10/10/2017	\$228,000	1152	569	SMITH WILLIAM H JR &	SMITH WILLIAM H JR &
4/4/2017	\$0	1129	603	SMITH WILLIAM H JR &	SMITH WILLIAM HAL JR
5/29/2007	\$0			SMITH WILLIAM HAL JR	SMITH WILLIAM HAL JR

Information



Calloway County, KY
 101 S. 5th St
 Murray, KY 42071



Property Valuation Administrator
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Parcel #021-0-0050-E
 BRYANT BOBBIE S TRUST
 17750 LONG RUN HILL PLACE
 LOUISVILLE, KY 40245

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[Vehicle Affidavit](#)
[Parcel Summary \(Limited\)](#)
[Parcel Summary](#)


Parcel Summary
 Parcel Number: 021-0-0050-E
 Account Number: 203784
 Location Address: KIRKSEY ROAD
 Description: KIRKSEY ROAD
(Note: Not to be used on legal documents)
 Class: RESIDENTIAL (10)
 Tax District: 10-County
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Owner Information
 BRYANT BOBBIE S TRUST
 17750 LONG RUN HILL PLACE
 LOUISVILLE, KY 40245


Land Information
Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
9/4/2008	\$600			BRYANT BOBBIE ANN SMITH	BRYANT BOBBIE ANN SMITH
9/4/2008	\$600	759	231	BRYANT BOBBIE S TRUST	BRYANT BOBBIE ANN SMITH

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 101 S. 5th St
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Parcel #021-0-0066
 WORKMAN CHARLES & PATRICIA
 2786 KIRKSEY ROAD
 MURRAY, KY 42071

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Homestead\Disability Exemption Form
 Religious Application
 Vehicle Affidavit
 Parcel Summary (Limited)
 Parcel Summary



Parcel Number: 021-0-0066
 Account Number: 203827
 Location Address: 2786 KIRKSEY ROAD
 Description: 2786 KIRKSEY ROAD
 (Note: Not to be used on legal documents)
 Class: RESIDENTIAL (10)
 Tax District: 10-County
[View Map](#)



Owner Information
 WORKMAN CHARLES & PATRICIA
 2786 KIRKSEY ROAD
 MURRAY, KY 42071

Land Information
 Improvements
 Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
10/11/2007	\$136,500			PORTH JOHN L SR & JUDITH A	PORTH JOHN L SR & JUDITH A
10/11/2007	\$136,500	717	461	WORKMAN CHARLES & PATRICIA	PORTH JOHN L SR & JUDITH A
7/25/2002	\$85,000	438	148	PORTH JOHN L SR & JUDITH A	SMITH GENEVA

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 Calloway County, KY
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Parcel #021-0-0048-D
 GRUBBS AMY JEAN
 2807 KIRKSEY ROAD
 MURRAY, KY 42071

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Homestead\Disability Exemption Form
 Religious Application
 Vehicle Affidavit
 Parcel Summary (Limited)
 Parcel Summary



Parcel Number: 021-0-0048-D
 Account Number: 203772
 Location Address: 2807 KIRKSEY ROAD
 Description: 2807 KIRKSEY ROAD
 (Note: Not to be used on legal documents)
 Class: RESIDENTIAL (10)
 Tax District: 10-County
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Owner Information
 GRUBBS AMY JEAN
 2807 KIRKSEY ROAD
 MURRAY, KY 42071

Land Information
 Improvements
 Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
9/14/2005	\$0			CAVITT AMY & CHAD	CAVITT AMY & CHAD
9/14/2005	\$0	611	513	GRUBBS AMY JEAN	CAVITT AMY & CHAD
5/7/2004	\$54,500	544	611	CAVITT AMY & CHAD	SMITH RORY, RITA & CORRINE
12/27/2002	\$52,500	463	459	SMITH RORY, RITA & CORRINE	HAYS CHRISTOPHER
4/1/1997	\$48,500			HAYS CHRISTOPHER	GOFORTH CLARENCE SR
12/1/1987	\$30,038			GOFORTH CLARENCE SR	RUSSEL DOWDY JR
1/1/1900	\$0			RUSSEL DOWDY JR	

Information

 Calloway County, KY
 101 S. 5th St
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Russell L. Brown
Attorney at Law
rbrown@clarkquinnlaw.com

320 N. Meridian St., Ste. 1100
Indianapolis, IN 46204
(317) 637-1321 main
(317) 687-2344 fax

October 5, 2023

**Notice of Proposed Construction of
Wireless Communications Facility
Site Name: Kirksey**

Southern Towers and Cellco Partnership, d/b/a Verizon Wireless are filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located on the east side of Fire Station Drive, Kirksey, KY 42054. (North Latitude: (36° 40' 52.46, West Longitude 88° 23' 53.22"). The proposed facility will include a 265-foot tall antenna tower, plus a 5-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

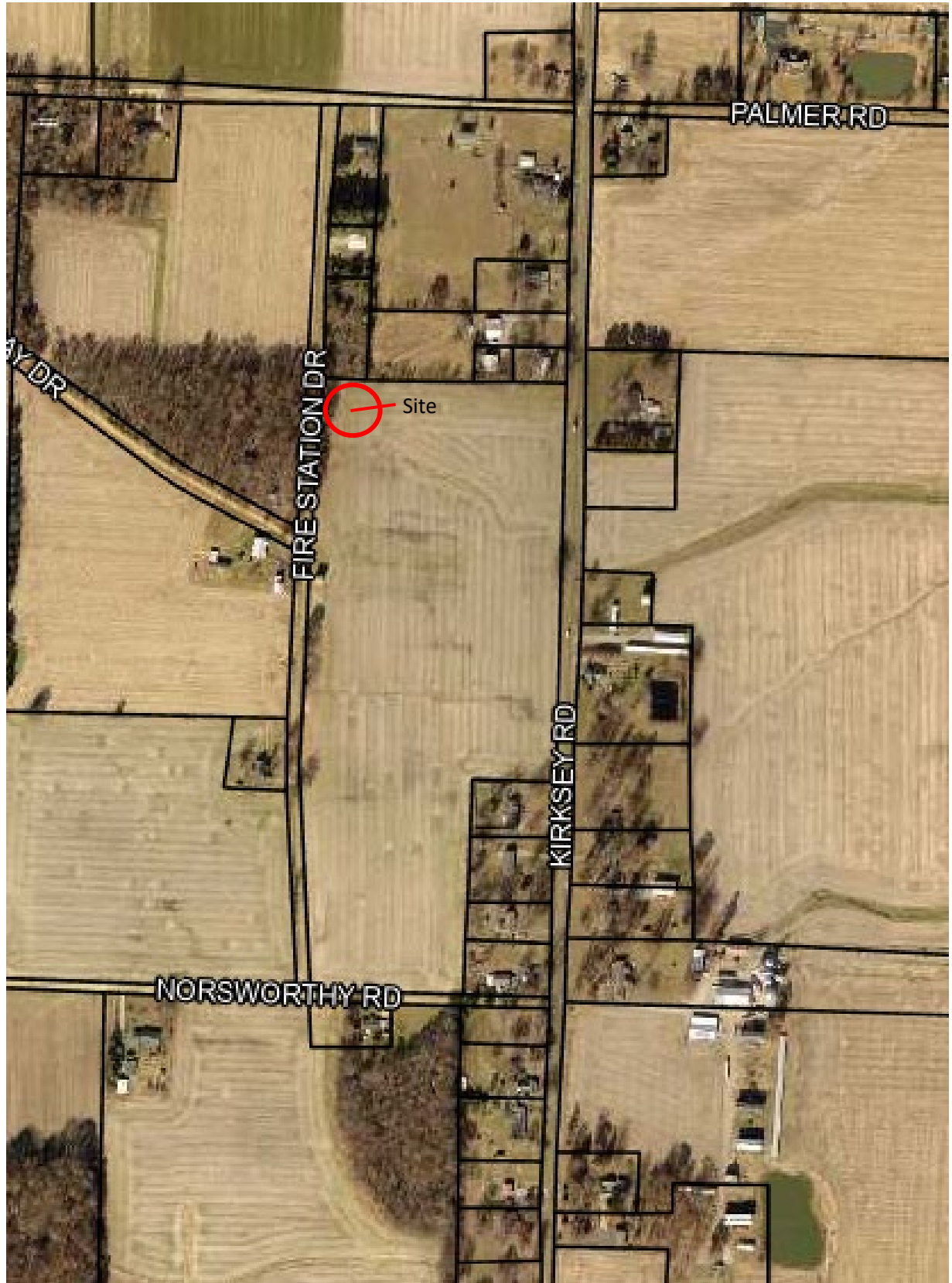
This notice is being sent to you because the County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous to the property on which the tower is to be constructed. You have a right to submit testimony to the Kentucky Public Service Commission ("PSC"), either in writing or to request intervention in the PSC's proceedings on the application. You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2023-00337 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. Applicant's radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact us at 317-637-1321 if you have any comments or questions about this proposal.

Sincerely,
Russell L. Brown

Attorney for Applicant
RLB/mnw
enclosure

Location Map





Russell L. Brown
Attorney at Law
rbrown@clarkquinnlaw.com

320 N. Meridian St., Ste. 1100
Indianapolis, IN 46204
(317) 637-1321 main
(317) 687-2344 fax

October 5, 2023

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Wireless Communications Facility
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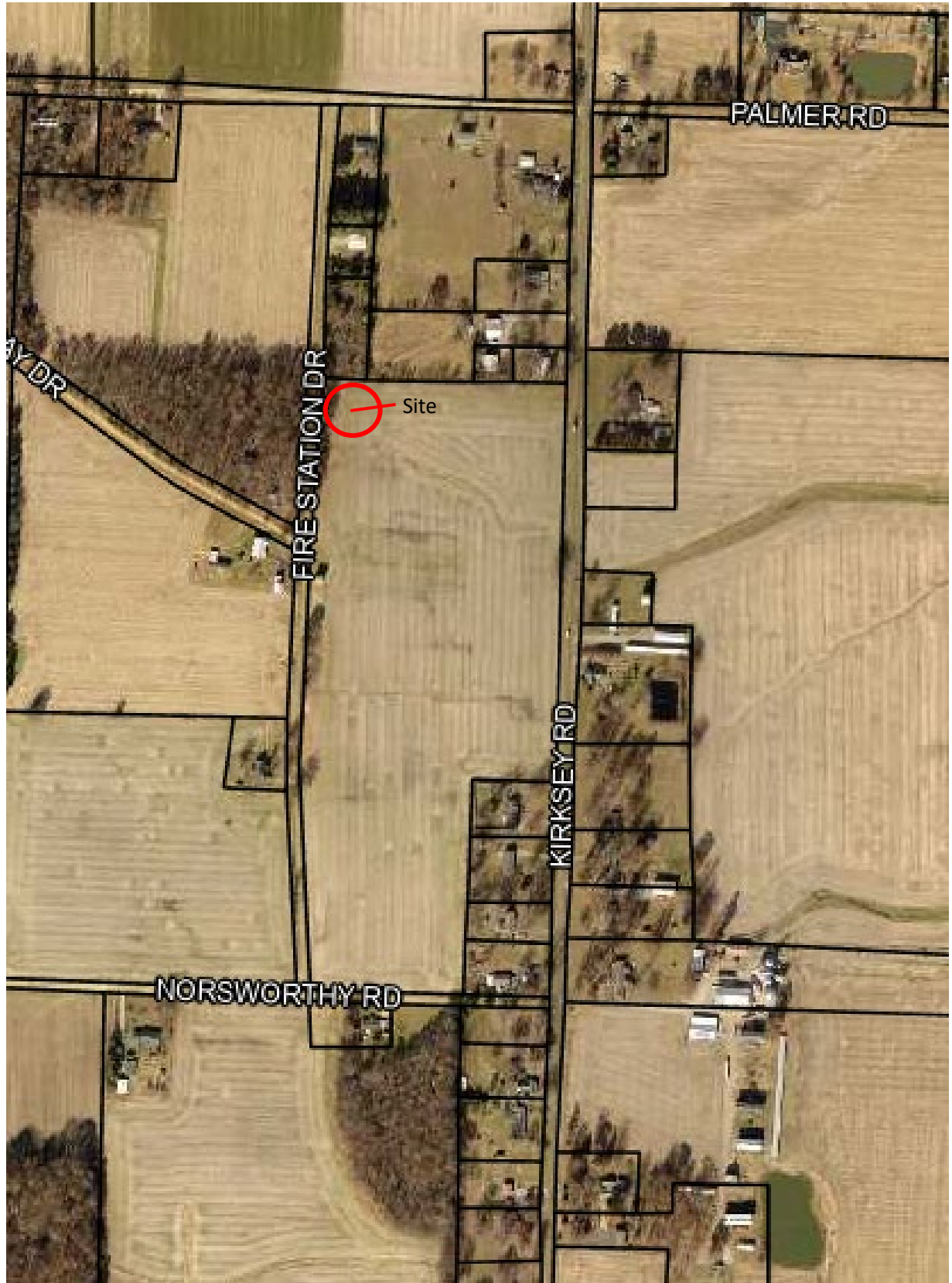
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Sincerely,
Russell L. Brown

Attorney for Applicant
RLB/mnw
enclosure

Location Map



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Clark, Quinn, Moses, Scott & Grahn, LLP



CRICK ROBERT & KAREN
235 NORSWORTHY ROAD
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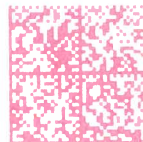
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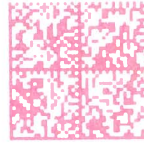
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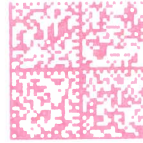
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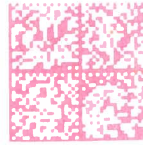
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MARIE
2551 KIRKSEY RD
MURRAY, KY 42071

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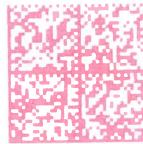
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LAX ANTHONY NEIL & LAX APRIL LEIGH
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2458 KIRKSEY ROAD
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SMITH WILLIAM H JR & SMITH SHIRLEY
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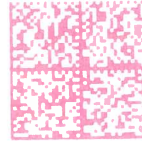
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0006035028 OCT 05 2023

GRUBBS AMY JEAN
2807 KIRKSEY ROAD
MURRAY, KY 42071

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ENGLAND VALLIE
 1751 HALE ROAD
 MURRAY, KY 42071



9590 9402 8538 3186 2567 82

2. Article Number (Transfer from service label)

9589 0710 5270 1403 3626 31

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Mail Restricted Delivery (00)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

COCHRAN STEVE
 2453 KIRKSEY ROAD
 MURRAY, KY 42071



9590 9402 8538 3186 2568 05

2. Article Number (Transfer from service label)

9589 0710 5270 1403 3626 17

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Mail Restricted Delivery (00)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

LESLIE DEWEY V
 2907 KIRKSEY ROAD
 MURRAY, KY 42071



9590 9402 8538 3186 2568 74

2. Article Number (Transfer from service label)

9589 0710 5270 1403 3625 49

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

B. Received by (Printed Name)

C. Date of Delivery

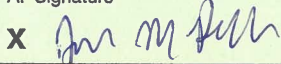
D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No


3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Mail Restricted Delivery (00)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 		A. Signature <input checked="" type="checkbox"/>  <input type="checkbox"/> Agent <input type="checkbox"/> Addressed to addressee only	
1. Article Addressed to: <div style="border: 1px solid black; padding: 5px; text-align: center;"> SMITH WILLIAM DALE 2458 KIRKSEY ROAD MURRAY, KY 42071 </div>		B. Received by (Printed Name)	C. Date of Delivery
2. Article Number (Transfer from service label) 9589 0710 5270 0730 1657 55		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery		<input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation® <input type="checkbox"/> Signature Confirmation Restricted Delivery	
PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt			

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 		A. Signature <input checked="" type="checkbox"/>  <input type="checkbox"/> Agent <input type="checkbox"/> Addressed to addressee only	
1. Article Addressed to: <div style="border: 1px solid black; padding: 5px; text-align: center;"> PEARSALL JOHN FREDRIC & JORDAN MARIE 2551 KIRKSEY RD MURRAY, KY 42071 </div>		B. Received by (Printed Name)	C. Date of Delivery
2. Article Number (Transfer from service label) 9589 0710 5270 1403 3626 48		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery		<input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation® <input type="checkbox"/> Signature Confirmation Restricted Delivery	
PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt			

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 		A. Signature <input checked="" type="checkbox"/>  <input type="checkbox"/> Agent <input type="checkbox"/> Addressed to addressee only	
1. Article Addressed to: <div style="border: 1px solid black; padding: 5px; text-align: center;"> GRUBBS AMY JEAN 2807 KIRKSEY ROAD MURRAY, KY 42071 </div>		B. Received by (Printed Name)	C. Date of Delivery
2. Article Number (Transfer from service label) 9589 0710 5270 0730 1657 00		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery		<input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation® <input type="checkbox"/> Signature Confirmation Restricted Delivery	
PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt			

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CAPPS JACKIE L & CAPPS CHARLES E
 2632 KIRKSEY ROAD
 MURRAY, KY 42071



9590 9402 8538 3186 2567 51

2. Article Number (Transfer from service label)

9589 0710 5270 1403 3626 62

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Jackie Capps* Agent
 Addressed

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation®
- Signature Confirmation Restricted Delivery

Mail
 Mail Restricted Delivery (over \$500)

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CALLOWAY COUNTY
 FIRE RESCUE #5
 PO BOX 612
 MURRAY, KY 42071



9590 9402 8538 3186 2568 67

2. Article Number (Transfer from service label)

9589 0710 5270 1403 3625 56

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Zach Stewart* Agent
 Addressed

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation®
- Signature Confirmation Restricted Delivery

Mail
 Mail Restricted Delivery (over \$500)

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

TURNER JUDY
 1503 DUDLEY
 MURRAY, KY 42071



9590 9402 8538 3186 2568 98

2. Article Number (Transfer from service label)

9589 0710 5270 1403 3625 25

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Judy Turner* Agent
 Addressed

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation®
- Signature Confirmation Restricted Delivery

Mail
 Mail Restricted Delivery (over \$500)

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

DOWNEY ~~MARY~~LYNN K
 129 FIRE STATION ROAD
 KIRKSEY, KY 42054



2. Article Number (Transfer from service label)

9589 0710 5270 1403 3625 70

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 X *M. Downey* Agent Addressee

B. Received by (Printed Name) C. Date of Delivery
 Karen Crick 10-7-23

D. Is delivery address different from item 1? Yes No

3. Service Type
 Adult Signature Registered MailTM
 Adult Signature Restricted Delivery Registered Mail Restricted Delivery
 Certified Mail[®] Signature Confirmation[®]
 Certified Mail Restricted Delivery Signature Confirmation Restricted Delivery
 Collect on Delivery Signature Confirmation Restricted Delivery
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CRICK ~~KAREN &~~
 CRICK ROBERT ALAN
 235 NORSWORTHY ROAD
 KIRKSEY, KY 42054



2. Article Number (Transfer from service label)

9589 0710 5270 1403 3625 87

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 X *Karen Crick* Agent Addressee

B. Received by (Printed Name) C. Date of Delivery
 Karen Crick 10-8-23

D. Is delivery address different from item 1? Yes No

3. Service Type
 Adult Signature Registered MailTM
 Adult Signature Restricted Delivery Registered Mail Restricted Delivery
 Certified Mail[®] Signature Confirmation[®]
 Certified Mail Restricted Delivery Signature Confirmation Restricted Delivery
 Collect on Delivery Signature Confirmation Restricted Delivery
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CRICK ROBERT & KAREN
 235 NORSWORTHY ROAD
 KIRKSEY, KY 42054



2. Article Number (Transfer from service label)

9589 0710 5270 1403 3632 18

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 X *Robert Crick by Karen Crick* Agent Addressee

B. Received by (Printed Name) C. Date of Delivery
 Karen Crick 10-8-23

D. Is delivery address different from item 1? Yes No

* Shared information with him
 * Robert is out of town until mid November.

3. Service Type
 Adult Signature Registered MailTM
 Adult Signature Restricted Delivery Registered Mail Restricted Delivery
 Certified Mail[®] Signature Confirmation[®]
 Certified Mail Restricted Delivery Signature Confirmation Restricted Delivery
 Collect on Delivery Signature Confirmation Restricted Delivery
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

SMITH TAMMY & ET AL
 195 DOGWOOD LANE
 KIRKSEY, KY 42054



9590 9402 8538 3186 2569 11

2. Article Number (Transfer from service label)

9589 0710 5270 1403 3632 25

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 X *Tammy Smith* Agent Addressee

B. Received by (Printed Name) *Tammy Smith* C. Date of Delivery *10-12-23*

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Mail Restricted Delivery
- Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Signature Confirmation®
 - Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

WORKMAN CHARLES & PATRICIA
 2786 KIRKSEY ROAD
 MURRAY, KY 42071



9590 9402 8538 3186 2567 13

2. Article Number (Transfer from service label)

9589 0710 5270 0730 1657 48

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 X *Charlie Workman* Agent Addressee

B. Received by (Printed Name) *Charlie Workman* C. Date of Delivery *10-12*

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Mail Restricted Delivery
- Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Signature Confirmation®
 - Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

BRYANT BOBBIE S TRUST
 17750 LONG RUN HILL PLACE
 LOUISVILLE, KY 40245



9590 9402 8538 3186 2567 20

2. Article Number (Transfer from service label)

9589 0710 5270 0730 1657 31

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 X *Bobbie S. Bryant* Agent Addressee

B. Received by (Printed Name) *Bobbie S. Bryant* C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Mail Restricted Delivery
- Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Signature Confirmation®
 - Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

SMITH WILLIAM H JR & SMITH
 SHIRLEY TRUST
 2458 KIRKSEY ROAD
 MURRAY, KY 42071



9590 9402 8538 3186 2567 37

2. Article Number (Transfer from service label)

9589 0710 5270 0730 1657 62

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X 

B. Received by (Printed Name)


C

D. Is delivery address different from item
If YES, enter delivery address below

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Mail Restricted Delivery

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	A. Signature <input checked="" type="checkbox"/> X <input type="checkbox"/> Agent <input type="checkbox"/> Address	
1. Article Addressed to:	B. Received by (Printed Name) <i>Mindy Desh</i>	C. Date of Delivery <i>10/14</i>
DESHIELDS MINDY D & SCOTT A 2851 KIRKSEY ROAD MURRAY, KY 42071	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
 9590 9402 8538 3186 2569 04	3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™ <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery	
2. Article Number (Transfer from service label)	<input type="checkbox"/> Mail Restricted Delivery (over \$500)	
9589 0710 5270 1403 3625 18		
PS Form 3811, July 2020 PSN 7530-02-000-9053		Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	A. Signature <input checked="" type="checkbox"/> X <input type="checkbox"/> Agent <input type="checkbox"/> Address	
1. Article Addressed to:	B. Received by (Printed Name) <i>Mindy Desh</i>	C. Date of Delivery <i>10/14</i>
DESHIELDS MINDY D & SCOTT A 2851 KIRKSEY ROAD MURRAY, KY 42071	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
 9590 9402 8538 3186 2568 81	3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery	
2. Article Number (Transfer from service label)	<input type="checkbox"/> Mail Restricted Delivery (over \$500)	
9589 0710 5270 1403 3625 32		
PS Form 3811, July 2020 PSN 7530-02-000-9053		Domestic Return Receipt

Tracking Number:

[Remove X](#)

9589071052701403362594

[Copy](#)

[Add to Informed Delivery \(https://informedelivery.usps.com/\)](https://informedelivery.usps.com/)

Latest Update

Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

Get More Out of USPS Tracking:

USPS Tracking Plus®

Feedback

Delivered

Out for Delivery

Preparing for Delivery

Moving Through Network

In Transit to Next Facility

October 10, 2023

Departed USPS Regional Facility

EVANSVILLE IN DISTRIBUTION CENTER

October 6, 2023, 4:09 pm

[See All Tracking History](#)

[What Do USPS Tracking Statuses Mean? \(https://faq.usps.com/s/article/Where-is-my-package\)](https://faq.usps.com/s/article/Where-is-my-package)

Text & Email Updates



USPS Tracking Plus®



Product Information



See Less

Track Another Package

Need More Help?

Contact USPS Tracking support for further assistance.

FAQs

Tracking Number:

[Remove X](#)

9589071052701403362563

[Copy](#)

[Add to Informed Delivery \(https://informedelivery.usps.com/\)](https://informedelivery.usps.com/)

Latest Update

Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

Get More Out of USPS Tracking:

USPS Tracking Plus®

Delivered

Out for Delivery

Preparing for Delivery

Moving Through Network

In Transit to Next Facility

October 10, 2023

Departed USPS Regional Facility

EVANSVILLE IN DISTRIBUTION CENTER

October 6, 2023, 3:17 pm

[See All Tracking History](#)

Feedback

[What Do USPS Tracking Statuses Mean? \(https://faq.usps.com/s/article/Where-is-my-package\)](https://faq.usps.com/s/article/Where-is-my-package)

Text & Email Updates



USPS Tracking Plus®



Product Information



See Less

Track Another Package

Enter tracking or barcode numbers

Need More Help?

Contact USPS Tracking support for further assistance.

FAQs

USPS Tracking®

[FAQs >](#)

Tracking Number:

[Remove X](#)

9589071052701403362624

[Copy](#)

[Add to Informed Delivery \(https://informedelivery.usps.com/\)](https://informedelivery.usps.com/)

Latest Update

This is a reminder to arrange for redelivery of your item or your item will be returned to sender.

Get More Out of USPS Tracking:

[USPS Tracking Plus®](#)

Feedback

Delivery Attempt

Reminder to Schedule Redelivery of your item

October 12, 2023

Notice Left (No Authorized Recipient Available)

MURRAY, KY 42071

October 7, 2023, 1:08 pm

[See All Tracking History](#)

[What Do USPS Tracking Statuses Mean? \(https://faq.usps.com/s/article/Where-is-my-package\)](https://faq.usps.com/s/article/Where-is-my-package)

[Text & Email Updates](#)



[USPS Tracking Plus®](#)



[Product Information](#)



[See Less ^](#)

Track Another Package

Enter tracking or barcode numbers

Need More Help?

Contact USPS Tracking support for further assistance.

[FAQs](#)

USPS Tracking®

[FAQs >](#)

Tracking Number:

[Remove X](#)

9589071052701403362655

[Copy](#)

[Add to Informed Delivery \(https://informedelivery.usps.com/\)](https://informedelivery.usps.com/)

Latest Update

This is a reminder to arrange for redelivery of your item or your item will be returned to sender.

Get More Out of USPS Tracking:

[USPS Tracking Plus®](#)

Feedback

Delivery Attempt

Reminder to Schedule Redelivery of your item

October 12, 2023

Notice Left (No Authorized Recipient Available)

MURRAY, KY 42071

October 7, 2023, 1:05 pm

[See All Tracking History](#)

[What Do USPS Tracking Statuses Mean? \(https://faq.usps.com/s/article/Where-is-my-package\)](https://faq.usps.com/s/article/Where-is-my-package)

[Text & Email Updates](#) 

[USPS Tracking Plus®](#) 

[Product Information](#) 

[See Less ^](#)

Track Another Package

Enter tracking or barcode numbers

Need More Help?

Contact USPS Tracking support for further assistance.

[FAQs](#)

USPS Tracking®

[FAQs >](#)

Tracking Number:

[Remove X](#)

9589071052701403362600

[Copy](#)

[Add to Informed Delivery \(https://informedelivery.usps.com/\)](https://informedelivery.usps.com/)

Latest Update

This is a reminder to arrange for redelivery of your item or your item will be returned to sender.

Get More Out of USPS Tracking:

[USPS Tracking Plus®](#)

Feedback

Delivery Attempt

Reminder to Schedule Redelivery of your item

October 12, 2023

Notice Left (No Authorized Recipient Available)

MURRAY, KY 42071

October 7, 2023, 1:20 pm

[See All Tracking History](#)

[What Do USPS Tracking Statuses Mean? \(https://faq.usps.com/s/article/Where-is-my-package\)](https://faq.usps.com/s/article/Where-is-my-package)

[Text & Email Updates](#)



[USPS Tracking Plus®](#)



[Product Information](#)



[See Less ^](#)

Track Another Package

Enter tracking or barcode numbers

Need More Help?

Contact USPS Tracking support for further assistance.

[FAQs](#)



ClarkQuinn

www.clarkquinnlaw.com

Russell L. Brown
Attorney at Law
rbrown@clarkquinnlaw.com

320 N. Meridian St., Ste. 1100
Indianapolis, IN 46204
(317) 637-1321 main
(317) 687-2344 fax

October 5, 2023

Via Certified Mail, Return Receipt Requested

Hon. Kenny Imes
Calloway County Judge Executive
201 South 4th Street
Murray, KY 42071

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2023-00337
Site Name: Kirksey


Dear Judge Imes:

Southern Towers and Cellco Partnership, d/b/a Verizon Wireless is filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located on the east side of Fire Station Drive, Kirksey, KY 42054. (North Latitude: (36° 40' 52.46, West Longitude 88° 23' 53.22")). The proposed facility will include a 265-foot tall antenna tower, plus a 5-foot lightning arrester and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

You have a right to submit comments to the PSC or to request intervention in the PSC's proceedings on the application. You may contact the PSC at: Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2023-00337 in any correspondence sent in connection with this matter.

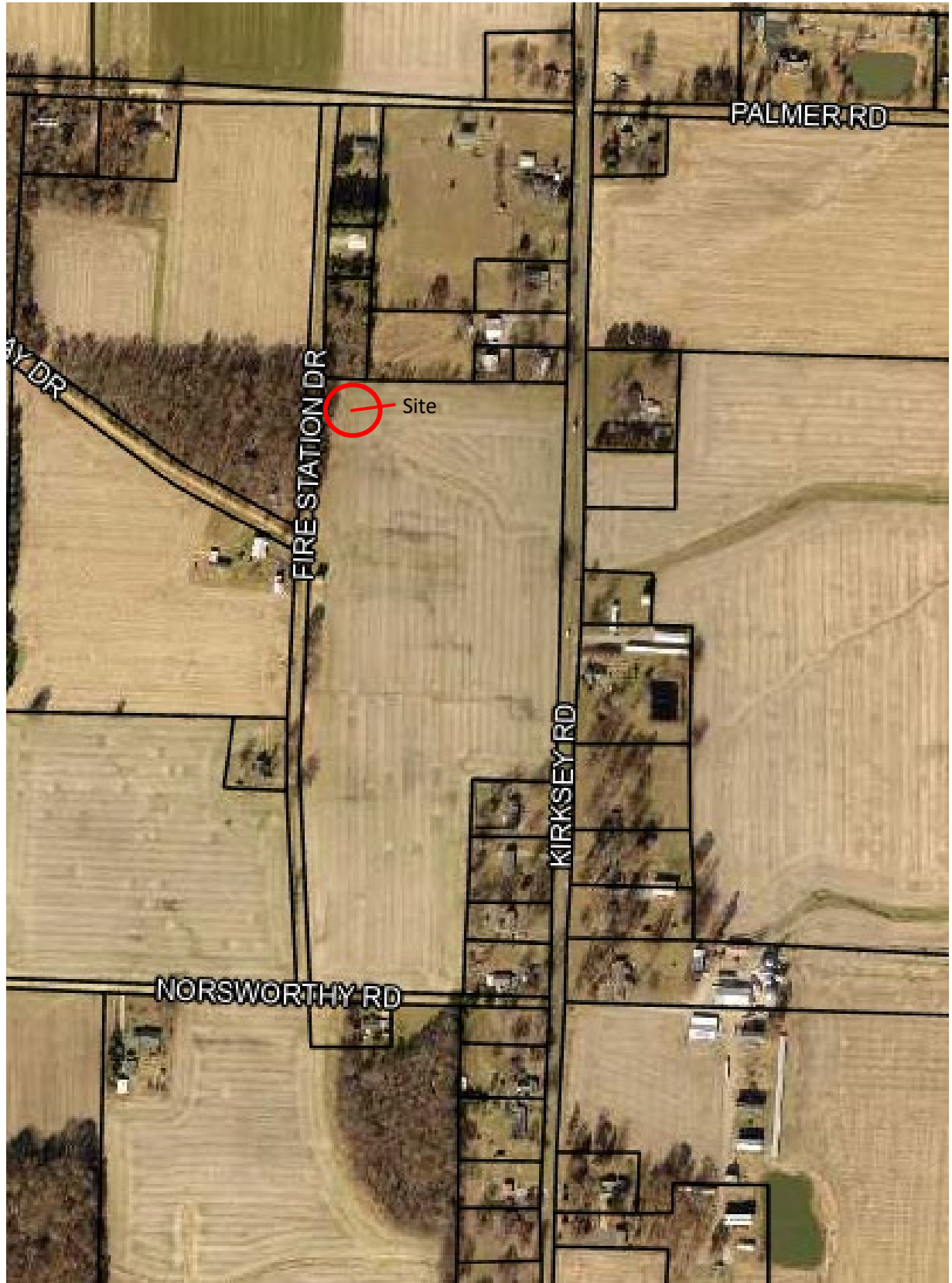
We have attached a map showing the site location for the proposed tower. Verizon Wireless' radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact us with any comments or questions you may have.

Sincerely,
Russell L. Brown



Attorney for Applicant

Location Map



CERTIFIED MAIL®

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



9589 0710 5270 0730 1897 75

FIRST-CLASS



US POSTAGESM PITNEY BOWES



ZIP 46204 \$ 008.53⁰
02 7H
0006035028 OCT 05 2023

Hon. Kenny Imes
Calloway County Judge Executive
201 South 4th Street
Murray, KY 42071

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Honorable **Kenny Imes**
 Calloway County Judge Executive
 201 South 4th Street
 Murray, KY 42071



9590 9402 8236 3030 6438 31

2. Article Number (Transfer from service label)

9589 0710 5270 0730 1897 75

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Cynthia Chrisman

- Agent
- Addressee

B. Received by (Printed Name)

Cynthia Chrisman

C. Date of Delivery

10/10/23

- D. Is delivery address different from item 1? Yes**
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (0)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

SITE NAME: KIRKSEY NOTICE SIGNS

The signs are at least (2) feet by four (4) feet in size, of durable material, with the text printed in black letters at least one (1) inch in height against a white background, except for the word "**tower**," which is at least four (4) inches in height.

Southern Towers and Cellco Partnership, d/b/a Verizon Wireless proposes to construct a telecommunications **tower** on this site. If you have questions, please contact Clark, Quinn, Moses, Scott & Grahn, LLP, 320 N. Meridian Street, Indianapolis, IN 46204; 317-637-1321, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2023-00337 in your correspondence.

Southern Towers and Cellco Partnership, d/b/a Verizon Wireless proposes to construct a telecommunications **tower** on this site. If you have questions, please contact Clark, Quinn, Moses, Scott & Grahn, LLP, 320 N. Meridian Street, Indianapolis, IN 46204; 317-637-1321, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2023-00337 in your correspondence.



Robert B. Scott
Charles R. Grahn
Frank D. Otte*
John "Bart" Herriman
William W. Gooden**
Michael P. Maxwell
Russell L. Brown**†
Jennifer F. Perry
Keith L. Beall
N. Davey Neal
Travis W. Cohron
Maggie L. Sadler
Kristin A. McIlwain
Olivia A. Hess

VIA EMAIL: classified@murrayledger.com

Murray Legar & Times
1001 Whitnell Ave.
Murray, KY 42071

Land Use Consultant
Elizabeth Bentz Williams, AICP

*Also admitted in Montana
†Also admitted in Kentucky
**

Registered Civil Mediator

RE: Legal Notice Advertisement
Site Name: Kirksey

To Whom It May Concern,

Please publish the following legal notice advertisement in the next available edition of The Murray Ledger & Times Publication:

NOTICE

Cellco Partnership, d/b/a Verizon Wireless and Southern Towers are filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located on the east side of Fire Station Drive, Kirksey, KY 42054. (North Latitude: (36° 40' 52.46, West Longitude 88° 23' 53.22"). The proposed facility will include a 265-foot tall antenna tower, plus a 5-foot lightning arrestor and related ground facilities. You have a right to submit comments to the PSC or to request intervention in the PSC's proceedings on the application. You may contact the PSC at: Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2023-00337 in any correspondence sent in connection with this matter.

After this advertisement has been published, please forward a tearsheet copy, affidavit of publication, and invoice to Clark, Quinn, Moses, Scott & Grahn, LLC, 320 N. Meridian Street, Indianapolis, IN 46204 or by email to ebw@clarkquinnlaw.com. Please call me on my cell with any questions at 317-902-2187 if you have any questions. Thank you for your assistance.

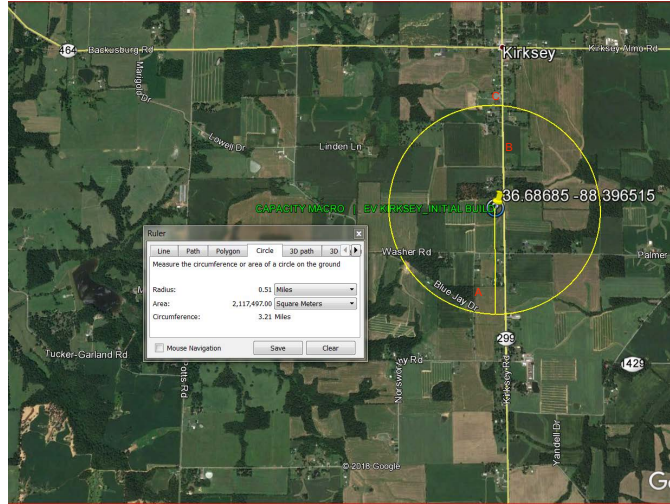
Sincerely,

A handwritten signature in cursive script that reads 'Elizabeth Bentz Williams'.

Elizabeth Bentz Williams, AICP



Search Area Map



Proposed Macro Lat	Proposed Macro Lon
36.68685	-88.396515



Tuesday, October 25, 2022.

RE: Proposed Verizon Wireless Communications Facility

Site Name: **EV Kirksey.**

Type of Tower: 270' self-support Tower.

Location: FIRE STATION DRIVE KIRKSEY, KY 42054.

To Whom It May Concern:

As a radio frequency engineer for Verizon Wireless, I am providing this letter to state the need for a Verizon Wireless site called **EV Kirksey.**

The **EV Kirksey** site is proposed with the below objectives:

1. Offload 4G traffic from busy site to the northwest.
2. Offload 4G traffic from busy site to the northeast.
3. Offload 4G traffic from busy site to the South.
4. Improve 4G throughput to existing heavy data users.
5. Improve 4G network reliability by increasing the amount of time our customers operate on 4G instead of 3G.

Currently the area is experiencing high demand for wireless high-speed data. Growth forecasts have triggered the need for an additional site in the area. The tower is needed to provide all Verizon customers in the area with the best experience on their 4G wireless devices.

Raw Land – Design plans for a new tower would provide tower height of **270'**. The new structure height was decided upon to best cover the offload area and interact with the existing Verizon sites. If we are limited to building a structure less than the proposed height, another tower would be needed in the vicinity in the near future. In addition, building a structure that is too short can cause existing taller sites to shoot over the proposed site and building a site that is too tall can cause the proposed site to shoot over existing sites. Both situations create a poor experience from a user perspective. The new structure will be placed near the center of the area with high traffic demand and offload the surrounding sites greatly. The new tower design meets stated objectives.

Verizon Wireless cares about the communities as well as the environment and prefers to collocate on existing structures when available. It can be noticed from any map that Verizon Wireless is currently collocated on many existing structures in the area. We prefer collocation due to reduced construction costs, faster deployment, and environment protection. However, Verizon Wireless was unable to find a suitable structure within the center of demand area to collocate the proposed **EV Kirksey** site.



Verizon Wireless design engineers establish search area criteria in order to effectively meet coverage objectives as well as offload existing Verizon cell sites. When met, the criterion also reduces the need for a new site to cover the area in the immediate future. Each cellular site covers a limited area, depending on site configuration and the surrounding terrain. Cell sites are built in an interconnected network; which means each cell site must be located so that their respective coverage areas are contiguous. This provides uninterrupted communications throughout the coverage area.

Since collocation is generally the most cost-effective means for prompt deployment of new facilities, Verizon Wireless makes every effort to investigate the feasibility for using existing towers or other tall structures for collocation when designing a new site or system expansion. However, collocation on an existing tower or tall structure is not always feasible due to location of existing cell sites. Cell sites are placed in a way so they provide smooth hand off to each other and are placed at some distance from each other to eliminate too much overlap. Too much overlap may result in a waste of resources and raise a system capacity overload concern.

This cell site has been designed, and shall be constructed and operated in a manner that satisfies regulations and requirements of all applicable governmental agencies that have been charged with regulating tower specifications, operation, construction, and placement, including the FAA and FCC.

Sincerely,

Michael Fahim.

RF Engineer, Verizon Wireless

A handwritten signature in blue ink, appearing to read "Michael Fahim", with a long horizontal stroke extending to the left.

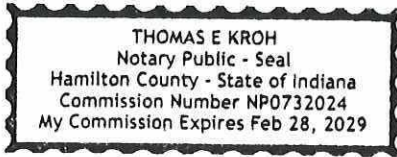
STATE OF INDIANA

COUNTY OF HAMILTON

Subscribed and sworn to before me this 25TH day of OCTOBER, 2022.

Notary Public

Signature Thomas E Kroh



Printed THOMAS E KROH

County of Residence HAMILTON

My Commission expires:

2/28/29



Tuesday, October 25, 2022.

RE: CALLOWAY County Zoning Plots

Site Name: **EV Kirksey.**

To Whom It May Concern:

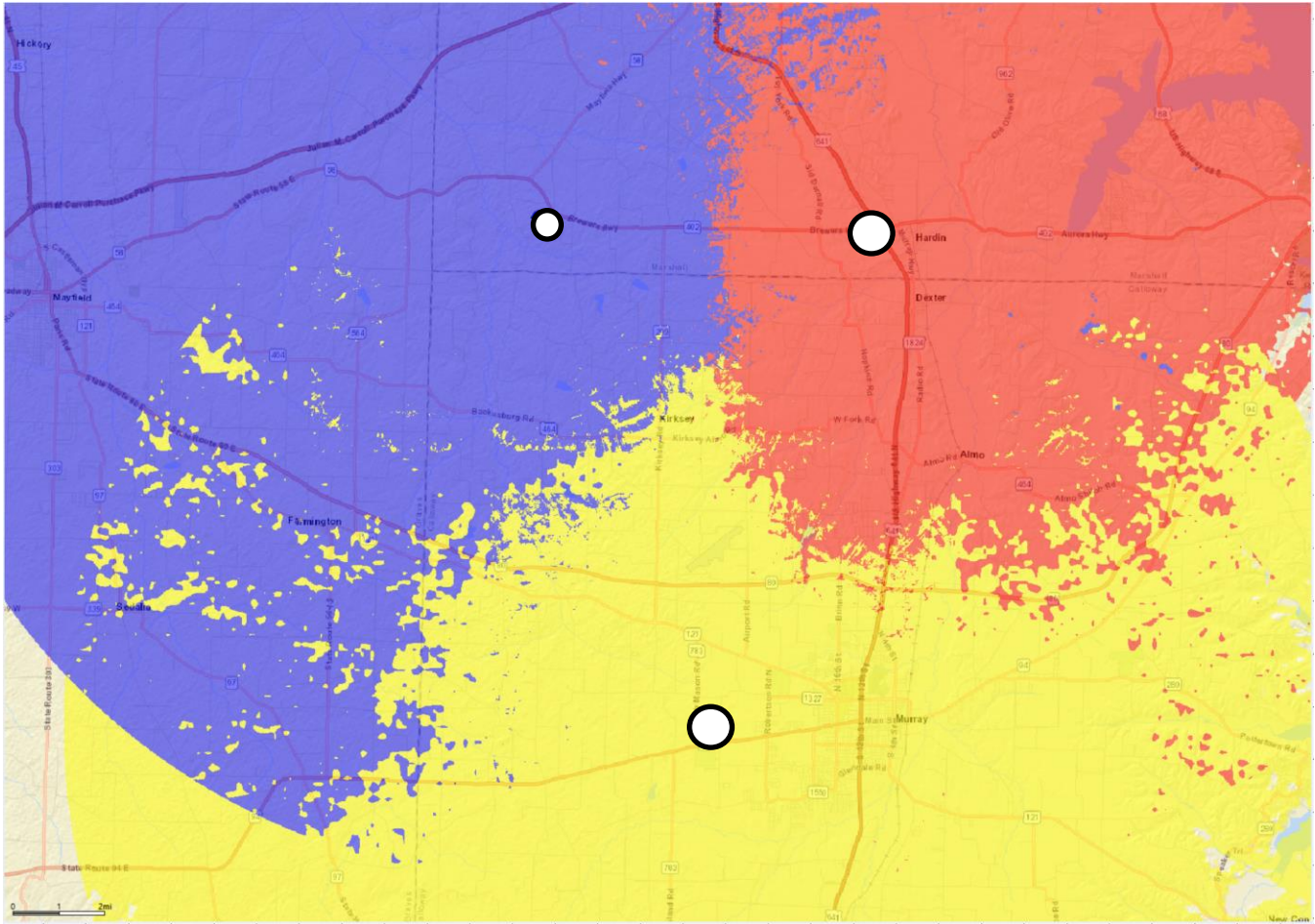
This map is not a guarantee of coverage and may contain areas with no service. This map reflects a depiction of predicted and approximate wireless coverage of the network and is intended to provide a relative comparison of coverage. The depictions of coverage do not guarantee service availability as there are many factors that can influence coverage and service availability. These factors vary from location to location and change over time. The coverage areas may include locations with limited or no coverage. Even within a coverage area shown, there are many factors, including but not limited to, usage volumes, service, outage, and customer's equipment, and terrain, proximity to buildings, foliage, and weather that may impact service.

The proposed site is needed to offload capacity from existing sites. This map reflects the predicted coverage area that will be offloaded from existing sites and transferred to the proposed site.

Michael Fahim.

RF Engineer, Verizon Wireless

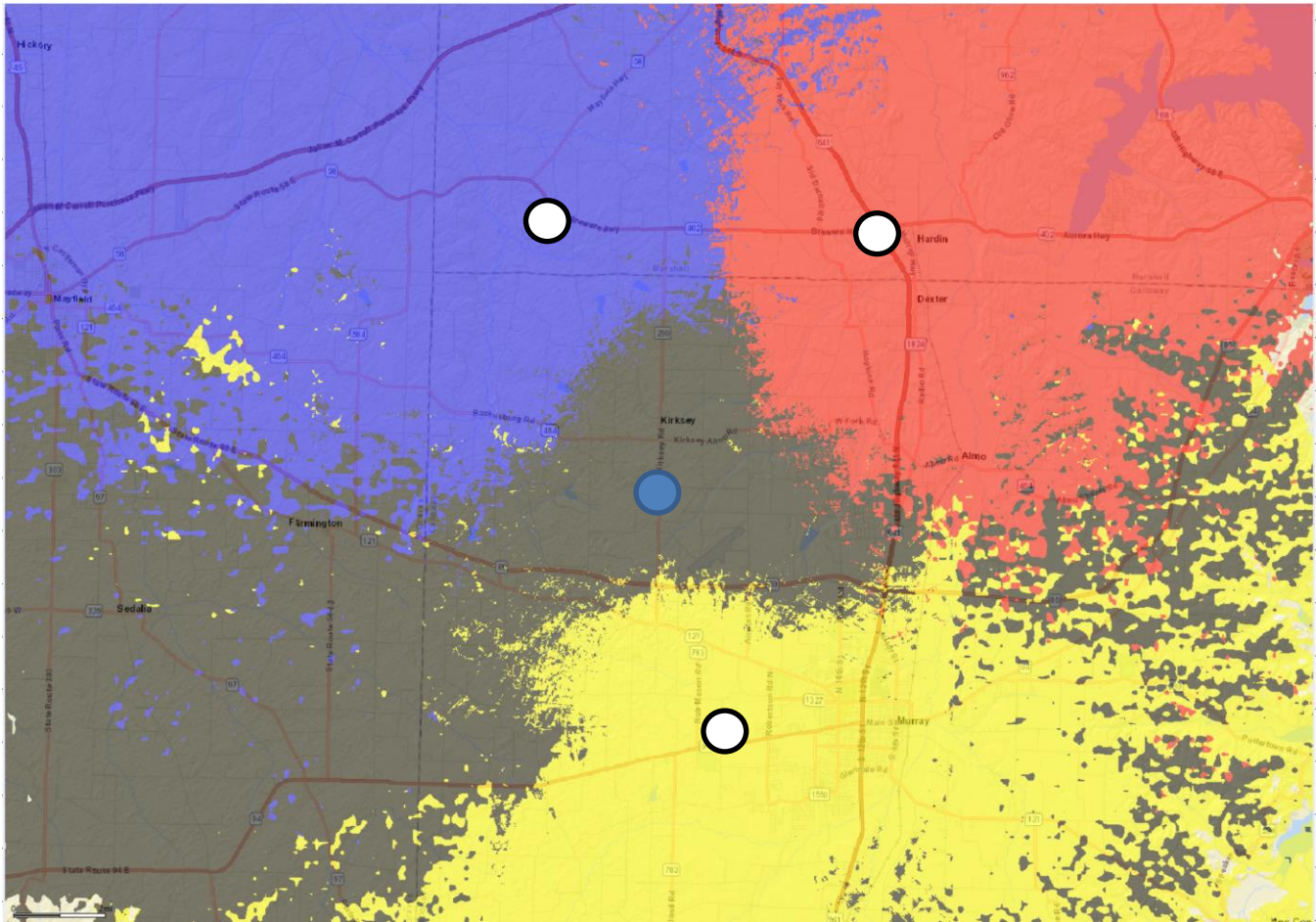
EV Kirksey Pre



Legend:

- Existing Verizon Sites ○
- Proposed Verizon Site ●
- Future Verizon Site ○
- County Border - - - - -

EV Kirksey Post



Legend:

- Existing Verizon Sites ○
- Proposed Verizon Site ●
- Future Verizon Site ○
- County Border - - - - -



Exhibit S
List, Identity and Qualifications of Professionals

Ralph M. Wallem
Professional Land Surveyor
Kentucky License 2195
Benchmark Services, Inc.
318 North Main Street
Huntingburg, IN 47542

Christopher J. Scheks
Professional Engineer
Kentucky License 29760
GPD Group, Inc.
520 South Min Street, Suite 2531
Akron, OH 44311

Dennis Daniels Abel
Professional Engineer
Kentucky License 22516
FDH Infrastructure Services
6521 Meridien Drive
Raleigh, NC 27616

Stephen Yeo
Professional Engineer
Kentucky License 22748
ROHN
1 Fairholm Avenue
Peoria, IL 61603

Larry Rhoads
Construction Manager
Verizon Wireless
2421 Holloway Road
Louisville, KY 40299

Steven Belcher
RF Engineer
Verizon Wireless
2421 Holloway Road
Louisville, KY 40299

