

**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. 2024-00098
OF A CERTIFICATE OF PUBLIC CONVENIENCE AND)
NECESSITY TO CONSTRUCT A WIRELESS)
COMMUNICATIONS FACILITY IN THE)
COMMONWEALTH OF KENTUCKY IN THE COUNTY)
OF TAYLOR)

SITE NAME: BLACK GNAT

* * * * *

**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 submit 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 Co-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 5000 Valleystone Drive, Cary, NC 27519

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 copies of the certificate of limited partnership from Delaware and the Certificate of Authorization 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 Co-Applicants submit 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-Applicants' 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 Q** along with Propagation Maps attached as **Exhibit R**. 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 at 5321 Greensburg Rd., Campbellsville, KY 42718 (North Latitude: (37° 18' 27.79", West Longitude 85° 25' 53.11"), 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 Mills Motor Sales, LLC pursuant to a Deed recorded in Deed Book 294, Page 338 in the office of the County Clerk. The proposed WCF will consist of a 245-foot tall tower, with an approximately 4-foot tall lightning arrestor attached at the top, for a total height of 249-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 Co-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 Co-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 Co-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 Co-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 Q**.

11. A copy of the Application for Federal Aviation Administration's ("FAA") and the FAA Determination of No Hazard are attached as **Exhibit F**. It should be noted that the application and approval from FAA references a total height of 255'. The confirmed total height of structure is 249'. The detailed site plan (**Exhibit C**) and Geotechnical Report (**Exhibit H**) indicate the proposed 245 foot tower and 4 foot lightning arrestor, for a total height of 249 feet. The tower will be constructed at the 249 feet height approved by PSC and as indicated on the

application and site plans. The FAA will be notified upon the tower stack that the height changed from 255' in a 7460-2 submittal.

12. A copy of the Kentucky Airport Zoning Commission (“KAZC”) Application and Approval are attached as **Exhibit G**. It should be noted that the application and approval from KAZC references a total height of 255'. The confirmed total height of structure is 249'. The detailed site plan (**Exhibit C**) and Geotechnical Report (**Exhibit H**) indicate the proposed 245 foot tower and 4 foot lightning arrestor, for a total height of 249 feet. The tower will be constructed at the 249 feet height approved by PSC and as indicated on the application and site plans.

13. A geotechnical engineering report was performed at the WCF site by Delta Oaks Group, 4904 Professional Court, 2nd Floor, Raleigh, NC 27609, dated February 28, 2024 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 21217C0150C, Dated May 24, 2011.

19. **Exhibit C** 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 K** is the Notification List with screen shots of the PVA records verified and updated using the Taylor County PVA on April 15, 2024. **Exhibit C** 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 April 15, 2024, using the Taylor County Kentucky Property Valuation

Administration records and a copy of the form of the notice sent by certified mail to each landowner on April 16, 2024, are attached as **Exhibit K** and **Exhibit L1**, respectively. Fifteen (15) notices were sent to surrounding property owners; to date six (6) notice green cards have been returned. On May 9, 2024 USPS tracking indicated that nine (9) notices are “moving through the system”. For this reason, new notice was mailed to those nine property owners that USPS indicated had not received notice. A copy of the form of the notice sent by certified mail on May 9, 2024 is attached in **Exhibit L2**. We will continue to supplement this file as notice verifications are received.

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 M**.

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 N**.

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 O**.

24. The area of the proposed facility is in the unincorporated area of Taylor County, Kentucky. The site located at 5321 Greenburg Road, Campbellsville, KY 42718. The area is

buffered by a tree row to the west. The site is occupied by a vehicle sales operation. The proposed WCF would be located to the west and south of that operation. The area to the north is largely undeveloped. To the west and south there is residential development. The terrain is rolling. There is no zoning or Plan Commission in this area of Taylor County. The nearest residential structure is 241 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 P**.

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 Q** and **Exhibit R**, 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.

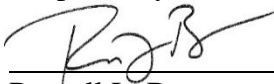
28. All Exhibits to this Application are hereby incorporated by reference as if fully set out as part of the Application.

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 Entities
- 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 and Determination of No Hazard
- G KAZC Application and Approval
- H Geotechnical Report
- I Directions to WCF Site
- J Real Estate Agreement
- K Notification Listing with PVA Verification
- L1 April 16 Property Owner Notification
- L2 May 9 Property Owner Notification
- M County Judge/Executive notice
- N Posted Notices
- O Newspaper Legal Notice Advertisement
- P Radio Frequency Design Search Area
- Q RF Design Engineer Statement of Need
- R Propagation Maps
- S List of Qualified Professionals
- T Affidavit of Certification

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.



A handwritten signature in black ink, appearing to read "JBULLOCK", is written over a horizontal line. Below the line, the text "Jeffrey W. Bullock, Secretary of State" is printed.

3341134 8300

SR# 20231665976

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

Authentication: 203227418

Date: 04-27-23



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
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. Schepker
Signature
Jane A. Schepker-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

**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: 305349

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 20th day of February, 2024, in the 232nd year of the Commonwealth.



Michael G. Adams

Michael G. Adams
Secretary of State
Commonwealth of Kentucky
305349/1227103



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
ANTENNA STRUCTURE REGISTRATION**



OWNER: Southern Towers BTS, LP

FCC Registration Number (FRN): 0029626124

ATTN: Ryan Bradley Southern Towers BTS, LP 250 Signal Mountain Road, Suite B Chattanooga, TN 37405	Antenna Structure Registration Number <p align="center">1327351</p>						
	Issue Date <p align="center">02/23/2024</p>						
Location of Antenna Structure 6599 Scottsville Road Glasgow, KY 42141 County: BARREN	Ground Elevation (AMSL) <p align="right">181.8 meters</p>						
	Overall Height Above Ground (AGL) <p align="right">60.7 meters</p>						
<table border="0"> <tr> <td>Latitude</td> <td>Longitude</td> <td>NAD83</td> </tr> <tr> <td align="center">36- 55- 45.8 N</td> <td align="center">085- 59- 48.9 W</td> <td></td> </tr> </table>	Latitude	Longitude	NAD83	36- 55- 45.8 N	085- 59- 48.9 W		Overall Height Above Mean Sea Level (AMSL) <p align="right">242.5 meters</p>
Latitude	Longitude	NAD83					
36- 55- 45.8 N	085- 59- 48.9 W						
Center of Array Coordinates <p align="center">N/A</p>	Type of Structure LTOWER Lattice Tower						
Painting and Lighting Requirements: FAA Chapters NONE Conditions:							

This registration is effective upon completion of the described antenna structure and notification to the Commission. **YOU MUST NOTIFY THE COMMISSION WITHIN 5 DAYS OF COMPLETION OF CONSTRUCTION OR CANCELLATION OF YOUR PROJECT, please file FCC Form 854.** To file electronically, connect to the antenna structure registration system by pointing your web browser to <https://www.fcc.gov/antenna-structure-registration>. Electronic filing is required. Use purpose code "NT" for notification of completion of construction; use purpose code "CA" to cancel your registration.

The Antenna Structure Registration is not an authorization to construct radio facilities or transmit radio signals. It is necessary that all radio equipment on this structure be covered by a valid FCC license or construction permit.

You must immediately provide a copy of this Registration to all tenant licensees and permittees sited on the structure described on this Registration (although not required, you may want to use Certified Mail to obtain proof of receipt), and display your Registration Number at the site. See reverse for important information about the Commission's Antenna Structure Registration rules.

You must comply with all applicable FCC obstruction marking and lighting requirements, as set forth in Part 17 of the Commission's Rules (47 C.F.R. Part 17). These rules include, but are not limited to:

- **Posting the Registration Number:** The Antenna Structure Registration Number must be displayed in a conspicuous place so that it is readily visible near the base of the antenna structure. Materials used to display the Registration Number must be weather-resistant and of sufficient size to be easily seen at the base of the antenna structure. Exceptions exist for certain historic structures. See 47 C.F.R. 17.4(g)-(h).
- **Inspecting lights and equipment:** The obstruction lighting must be observed at least every 24 hours in order to detect any outages or malfunctions. Lighting equipment, indicators, and associated devices must be inspected at least once every three months.
- **Reporting outages and malfunctions:** When any top steady-burning light or a flashing light (in any position) burns out or malfunctions, the outage must be reported to the nearest FAA Flight Service Station, unless corrected within 30 minutes. The FAA must again be notified when the light is restored. The owner must also maintain a log of these outages and malfunctions.
- **Maintaining assigned painting:** The antenna structure must be repainted as often as necessary to maintain good visibility.
- **Complying with environmental rules:** If you certified that grant of this registration would not have a significant environmental impact, you must nevertheless maintain all pertinent records and be ready to provide documentation supporting this certification and compliance with the rules, in the event that such information is requested by the Commission pursuant to 47 C.F.R. 1.1307(d).
- **Updating information:** The owner must notify the FCC of proposed modifications to this structure; of any change in ownership; or, within 30 days of dismantlement of the structure.

Copies of the Code of Federal Regulations (which contain the FCC's antenna structure registration rules, 47 C.F.R Part 17) are available from the Government Printing Office (GPO). To purchase CFR volumes, call (202) 512-1800. For GPO Customer Service, call (202) 512-1803. For additional FCC information, consult the Antenna Homepage on the internet at <https://www.fcc.gov/antenna-structure-registration> or call (877) 480-3201 (TTY 717-338-2824).

REFERENCE COPY

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.



**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 KNKN795	File Number 0009262187
Radio Service CL - Cellular	
Market Numer CMA446	Channel Block B
Sub-Market Designator 0	

FCC Registration Number (FRN): 0003290673

Market Name Kentucky 4 - Spencer
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Grant Date 09-01-2020	Effective Date 01-13-2021	Expiration Date 10-01-2030	Five Yr Build-Out Date	Print Date
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Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
1	37-50-16.0 N	085-56-28.0 W	224.3	80.8	1043049

Address: 0.3 KM SW OF US-31 & CENTRAL PARKWAY

City: RADCLIFF **County:** HARDIN **State:** KY **Construction Deadline:**

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)	80.900	108.700	115.600	53.800	51.900	74.500	68.800	97.200
Transmitting ERP (watts)	128.990	56.630	6.540	0.320	0.260	0.340	7.510	59.300

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)	80.900	108.700	115.600	53.800	51.900	74.500	68.800	97.200
Transmitting ERP (watts)	0.690	16.910	90.270	116.960	30.240	2.840	0.260	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)	80.900	108.700	115.600	53.800	51.900	74.500	68.800	97.200
Transmitting ERP (watts)	1.070	0.260	0.340	2.530	33.930	116.960	90.270	14.390

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: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
2	37-50-37.0 N	085-27-20.0 W	231.6	88.4	1043050

Address: 2.3 KM NORTH NORTHEAST OF

City: BARDSTOWN County: NELSON State: KY Construction Deadline:

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)	98.400	90.900	73.400	84.100	101.900	133.400	94.300	98.400
Transmitting ERP (watts)	104.850	19.980	1.660	0.300	0.350	1.660	27.580	112.350

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)	98.400	90.900	73.400	84.100	101.900	133.400	94.300	98.400
Transmitting ERP (watts)	5.500	51.350	131.990	70.890	9.340	0.550	0.300	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)	98.400	90.900	73.400	84.100	101.900	133.400	94.300	98.400
Transmitting ERP (watts)	0.300	0.340	0.710	17.400	93.440	120.380	32.400	3.090

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
3	37-32-17.8 N	085-43-44.5 W	238.4	108.2	1251911

Address: 3.2 km south of

City: HODGENVILLE County: LARUE State: KY Construction Deadline:

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)	97.200	133.300	125.000	81.400	97.300	98.200	119.900	114.300
Transmitting ERP (watts)	77.720	37.630	4.790	0.280	0.240	0.240	4.270	35.940

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)	97.200	133.300	125.000	81.400	97.300	98.200	119.900	114.300
Transmitting ERP (watts)	0.890	13.410	73.040	92.590	28.480	2.750	0.230	0.350

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)	97.200	133.300	125.000	81.400	97.300	98.200	119.900	114.300
Transmitting ERP (watts)	0.930	0.230	0.270	2.470	27.010	93.450	73.040	14.840

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
4	38-01-51.0 N	084-56-25.0 W	250.2	91.1	1043051

Address: 1520 GLENSBURO ROAD

City: LAWRENCEBURG County: ANDERSON State: KY Construction Deadline:

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)	97.800	106.600	109.200	103.100	87.600	99.200	101.700	87.600
Transmitting ERP (watts)	6.320	39.950	96.330	90.640	29.610	4.320	0.310	1.680

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)	97.800	106.600	109.200	103.100	87.600	99.200	101.700	87.600
Transmitting ERP (watts)	1.520	0.270	1.720	14.250	71.470	128.360	93.210	17.180

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)	97.800	106.600	109.200	103.100	87.600	99.200	101.700	87.600
Transmitting ERP (watts)	99.580	48.660	9.500	0.820	0.630	5.810	24.910	80.200

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
5	37-47-02.0 N	084-54-24.0 W	273.1	86.9	1043052

Address: 1714 CORNISHVILLE ROAD

City: HARRODSBURG County: MERCER State: KY Construction Deadline:

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)	99.900	97.100	83.300	87.100	83.500	97.400	113.000	114.500
Transmitting ERP (watts)	178.880	95.250	9.980	0.410	0.380	1.840	19.100	117.180

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)	99.900	97.100	83.300	87.100	83.500	97.400	113.000	114.500
Transmitting ERP (watts)	3.790	39.470	153.130	170.750	54.270	3.360	0.380	0.510

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)	99.900	97.100	83.300	87.100	83.500	97.400	113.000	114.500
Transmitting ERP (watts)	1.510	0.380	1.080	8.720	72.000	178.800	138.380	25.250

Licensee Name: CELLCO PARTNERSHIP

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File Number: 0009262187

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
6	37-42-07.0 N	085-48-55.0 W	268.2	143.3	1043053

Address: 3.2 KM EAST OF

City: ELIZABETHTOWN County: HARDIN State: KY Construction Deadline:

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)	119.400	154.200	147.200	92.300	113.000	125.700	112.300	98.700
Transmitting ERP (watts)	128.990	56.630	6.540	0.320	0.260	0.340	7.510	59.300

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)	119.400	154.200	147.200	92.300	113.000	125.700	112.300	98.700
Transmitting ERP (watts)	0.690	16.910	90.270	116.960	30.240	2.840	0.260	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)	119.400	154.200	147.200	92.300	113.000	125.700	112.300	98.700
Transmitting ERP (watts)	1.140	0.260	0.360	2.630	28.390	78.020	63.150	13.290

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
7	38-02-06.0 N	085-20-08.0 W	217.6	60.7	1043054

Address: Snyder Bluff Ridge; 0.3 KM N OF SR-44

City: Taylorsville County: SPENCER State: KY Construction Deadline:

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)	49.800	59.300	58.700	65.300	55.600	72.400	90.700	56.400
Transmitting ERP (watts)	38.070	131.240	101.290	16.150	1.200	0.300	0.390	2.840

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)	49.800	59.300	58.700	65.300	55.600	72.400	90.700	56.400
Transmitting ERP (watts)	0.340	0.540	14.700	90.110	137.670	42.790	4.300	0.300

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)	49.800	59.300	58.700	65.300	55.600	72.400	90.700	56.400
Transmitting ERP (watts)	12.510	0.830	0.300	0.380	4.210	45.850	137.670	88.060

Licensee Name: CELLCO PARTNERSHIP

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File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
8	37-31-58.0 N	085-18-59.0 W	319.1	103.6	1043055

Address: 5.6 KILOMETERS SOUTHWEST OF

City: LEBANON County: MARION State: KY Construction Deadline:

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)	180.400	155.400	157.600	170.300	150.100	166.500	207.500	199.300
Transmitting ERP (watts)	33.930	116.960	90.270	14.390	1.070	0.260	0.340	2.530

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)	180.400	155.400	157.600	170.300	150.100	166.500	207.500	199.300
Transmitting ERP (watts)	0.260	0.340	7.510	59.300	128.990	56.630	6.540	0.320

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)	180.400	155.400	157.600	170.300	150.100	166.500	207.500	199.300
Transmitting ERP (watts)	30.240	2.840	0.260	0.330	0.690	16.910	90.270	116.960

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
9	37-52-10.0 N	085-09-29.0 W	253.0	60.6	

Address: 3.2 KM WEST OF

City: TATUM SPRINGS County: WASHINGTON State: KY Construction Deadline:

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)	79.900	60.800	72.400	64.400	69.900	83.600	82.800	92.400
Transmitting ERP (watts)	178.970	457.380	236.800	30.680	1.780	0.940	1.170	19.290

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)	79.900	60.800	72.400	64.400	69.900	83.600	82.800	92.400
Transmitting ERP (watts)	1.030	1.590	42.760	263.680	399.100	126.210	13.220	0.940

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)	79.900	60.800	72.400	64.400	69.900	83.600	82.800	92.400
Transmitting ERP (watts)	63.250	5.260	0.940	1.100	5.260	87.310	355.700	331.960

Licensee Name: CELLCO PARTNERSHIP

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File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
10	37-23-00.0 N	085-25-42.0 W	257.5	128.0	1043056

Address: 0.8 KM SW OF SR-210; 8.0 KM WNW OF

City: CAMPBELLSVILLE County: TAYLOR State: KY Construction Deadline:

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)	104.400	85.900	88.600	123.900	142.400	154.600	118.100	99.000
Transmitting ERP (watts)	128.990	56.630	6.540	0.320	0.260	0.340	7.510	59.300

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)	104.400	85.900	88.600	123.900	142.400	154.600	118.100	99.000
Transmitting ERP (watts)	0.690	11.080	29.450	33.430	17.360	2.910	0.260	0.320

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)	104.400	85.900	88.600	123.900	142.400	154.600	118.100	99.000
Transmitting ERP (watts)	1.130	0.260	0.370	2.600	30.680	93.270	73.680	13.650

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
11	37-41-32.0 N	085-13-23.0 W	250.0	39.6	

Address: 0.8 KM East of US-150/SR-55

City: SPRINGFIELD County: WASHINGTON State: KY Construction Deadline:

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)	66.400	51.400	35.800	32.500	29.900	56.600	64.400	87.000
Transmitting ERP (watts)	138.150	235.860	173.640	32.610	3.200	0.490	3.990	29.590

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)	66.400	51.400	35.800	32.500	29.900	56.600	64.400	87.000
Transmitting ERP (watts)	1.190	10.120	52.670	201.260	240.690	112.010	17.460	1.380

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)	66.400	51.400	35.800	32.500	29.900	56.600	64.400	87.000
Transmitting ERP (watts)	64.400	7.560	0.570	2.970	12.580	90.770	239.970	223.900

Licensee Name: CELLCO PARTNERSHIP

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File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
12	37-19-34.2 N	085-19-52.8 W	273.7	51.5	1214265

Address: Campbellsville Downtown, 402 Smith Ridge Road

City: Campbellsville County: TAYLOR State: KY Construction Deadline:

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)	42.900	44.000	67.600	79.700	107.000	96.900	102.200	78.400
Transmitting ERP (watts)	56.310	24.160	1.150	0.340	0.340	0.340	1.680	23.720

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)	42.900	44.000	67.600	79.700	107.000	96.900	102.200	78.400
Transmitting ERP (watts)	0.340	5.680	91.680	147.320	19.330	0.760	0.340	0.340

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)	42.900	44.000	67.600	79.700	107.000	96.900	102.200	78.400
Transmitting ERP (watts)	0.340	0.340	0.340	0.340	15.150	141.430	87.210	5.760

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
13	37-16-06.2 N	085-29-20.9 W	220.4	60.6	

Address: ON INDUSTRIAL DRIVE

City: GREENSBURG County: GREEN State: KY Construction Deadline:

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)	53.800	45.000	61.300	48.800	62.500	61.700	89.500	63.200
Transmitting ERP (watts)	38.070	131.240	101.290	16.150	1.200	0.300	0.390	2.840

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)	53.800	45.000	61.300	48.800	62.500	61.700	89.500	63.200
Transmitting ERP (watts)	0.300	0.380	8.420	66.540	144.730	63.540	7.340	0.360

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)	53.800	45.000	61.300	48.800	62.500	61.700	89.500	63.200
Transmitting ERP (watts)	33.930	3.180	0.300	0.370	0.780	18.970	101.290	131.240

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
14	37-39-32.5 N	085-37-56.7 W	253.9	77.7	1239887

Address: 2760 Cissal Hill Road

City: NEW HAVEN County: LARUE State: KY Construction Deadline:

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)	170.400	154.400	144.000	129.500	88.800	74.200	65.100	107.400
Transmitting ERP (watts)	124.610	82.100	13.580	1.250	0.280	2.730	18.240	82.650

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)	170.400	154.400	144.000	129.500	88.800	74.200	65.100	107.400
Transmitting ERP (watts)	5.460	32.920	114.480	130.660	49.070	6.770	0.450	0.620

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)	170.400	154.400	144.000	129.500	88.800	74.200	65.100	107.400
Transmitting ERP (watts)	2.950	0.270	1.500	8.200	53.810	130.660	112.910	27.380

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
15	37-48-57.0 N	085-46-49.0 W	235.0	126.5	1015251

Address: Colesburg, 3.22 KM WSW OF

City: LEBANON JUNCTION County: HARDIN State: KY Construction Deadline:

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)	146.300	139.600	153.000	176.500	89.800	60.800	96.200	125.700
Transmitting ERP (watts)	3.870	36.570	196.310	280.850	117.860	10.070	0.610	0.610

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)	146.300	139.600	153.000	176.500	89.800	60.800	96.200	125.700
Transmitting ERP (watts)	2.460	0.610	1.750	14.200	117.530	291.040	225.240	41.100

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
16	37-26-54.0 N	085-52-48.0 W	249.9	128.0	1060580

Address: One mile (1.6 km) NNW of

City: UPTON County: LARUE State: KY Construction Deadline:

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)	119.400	107.000	91.200	106.700	108.300	113.300	138.300	124.200
Transmitting ERP (watts)	124.610	46.300	5.190	0.280	0.290	0.370	9.670	66.920

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
16	37-26-54.0 N	085-52-48.0 W	249.9	128.0	1060580

Address: One mile (1.6 km) NNW of

City: UPTON County: LARUE 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)	119.400	107.000	91.200	106.700	108.300	113.300	138.300	124.200
Transmitting ERP (watts)	0.280	0.310	5.190	48.480	124.610	66.920	8.820	0.520

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)	119.400	107.000	91.200	106.700	108.300	113.300	138.300	124.200
Transmitting ERP (watts)	1.320	0.260	0.260	0.260	0.660	33.930	123.180	32.400

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	37-44-48.0 N	085-53-19.3 W	275.5	89.9	1287239

Address: Elizabethtown North, near 208 Pear Orchard Road NW

City: ELIZABETHTOWN County: HARDIN State: KY Construction Deadline:

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)	152.100	156.700	133.600	115.300	142.700	128.700	119.200	136.400
Transmitting ERP (watts)	15.600	78.150	83.650	18.730	1.680	0.230	0.230	0.890

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)	152.100	156.700	133.600	115.300	142.700	128.700	119.200	136.400
Transmitting ERP (watts)	0.230	0.230	3.850	37.520	101.630	51.090	7.090	0.270

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)	152.100	156.700	133.600	115.300	142.700	128.700	119.200	136.400
Transmitting ERP (watts)	35.830	4.120	0.230	0.230	0.230	7.060	53.010	99.780

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
18	37-52-58.8 N	085-56-33.1 W	213.4	35.1	

Address: Wilson Road

City: Fort Knox County: HARDIN State: KY Construction Deadline:

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)	54.200	65.500	70.000	29.900	29.900	29.900	33.200	65.800
Transmitting ERP (watts)	38.070	131.240	101.290	16.150	1.200	0.300	0.390	2.840

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
18	37-52-58.8 N	085-56-33.1 W	213.4	35.1	

Address: Wilson Road

City: Fort Knox County: HARDIN 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)	54.200	65.500	70.000	29.900	29.900	29.900	33.200	65.800
Transmitting ERP (watts)	0.300	0.380	1.830	30.180	122.250	111.260	20.840	1.700

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)	54.200	65.500	70.000	29.900	29.900	29.900	33.200	65.800
Transmitting ERP (watts)	30.680	3.270	0.300	0.400	0.820	17.990	82.670	104.650

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
19	37-36-04.0 N	085-52-00.0 W	234.4	65.5	1057215

Address: GLENDALE CELL SITE, 6667 SOUTH DIXIE HWY.

City: ELIZABETHTOWN County: HARDIN State: KY Construction Deadline:

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)	52.500	34.700	50.500	66.200	54.100	71.900	71.800	64.000
Transmitting ERP (watts)	105.650	71.160	11.410	0.820	0.330	0.330	3.120	35.390

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)	52.500	34.700	50.500	66.200	54.100	71.900	71.800	64.000
Transmitting ERP (watts)	0.330	0.420	4.720	51.450	154.470	98.800	14.040	0.930

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)	52.500	34.700	50.500	66.200	54.100	71.900	71.800	64.000
Transmitting ERP (watts)	10.870	0.630	0.330	0.410	6.840	63.420	162.090	83.920

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
20	37-39-26.3 N	085-56-34.7 W	220.1	72.5	1247548

Address: 1036 East Main Street

City: Cecilia County: HARDIN State: KY Construction Deadline:

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)	36.100	44.200	42.900	64.500	71.800	69.500	54.300	44.500
Transmitting ERP (watts)	57.760	95.330	41.480	5.760	0.300	0.330	0.460	10.830

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
20	37-39-26.3 N	085-56-34.7 W	220.1	72.5	1247548

Address: 1036 East Main Street

City: Cecilia County: HARDIN 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)	36.100	44.200	42.900	64.500	71.800	69.500	54.300	44.500
Transmitting ERP (watts)	0.370	0.570	14.180	74.450	109.410	37.870	4.380	0.300

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)	36.100	44.200	42.900	64.500	71.800	69.500	54.300	44.500
Transmitting ERP (watts)	16.150	1.200	0.300	0.390	2.840	38.070	131.240	101.290

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
21	37-58-13.6 N	085-29-07.4 W	207.9	129.5	1204265

Address: 11920 Louisville Road

City: Cox Creek County: NELSON State: KY Construction Deadline:

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)	89.900	82.300	58.800	54.100	76.600	70.500	98.000	89.700
Transmitting ERP (watts)	23.200	80.450	62.450	10.360	0.790	0.200	0.230	1.720

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)	89.900	82.300	58.800	54.100	76.600	70.500	98.000	89.700
Transmitting ERP (watts)	0.310	0.960	19.520	91.310	100.120	22.420	2.040	0.260

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
22	37-27-43.2 N	085-34-27.8 W	286.5	77.7	1227279

Address: Taylor/Larue, City of

City: Gotton County: TAYLOR State: KY Construction Deadline:

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)	159.200	129.400	81.500	115.300	138.400	121.200	100.500	107.600
Transmitting ERP (watts)	56.530	144.460	74.790	9.690	0.560	0.300	0.370	6.090

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)	159.200	129.400	81.500	115.300	138.400	121.200	100.500	107.600
Transmitting ERP (watts)	0.340	0.540	14.700	90.110	137.670	42.790	4.300	0.300

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
22	37-27-43.2 N	085-34-27.8 W	286.5	77.7	1227279

Address: Taylor/Larue, City of

City: Gotton County: TAYLOR State: KY Construction Deadline:

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)	159.200	129.400	81.500	115.300	138.400	121.200	100.500	107.600
Transmitting ERP (watts)	20.840	1.700	0.300	0.380	1.830	30.180	122.250	111.260

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
23	37-45-36.7 N	085-59-28.9 W	242.3	77.7	1228925

Address: 1.6 km NW of

City: Rineyville County: HARDIN State: KY Construction Deadline:

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)	94.500	82.000	56.400	72.200	75.600	74.900	59.700	68.100
Transmitting ERP (watts)	144.730	63.540	7.340	0.360	0.300	0.380	8.420	66.540

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)	94.500	82.000	56.400	72.200	75.600	74.900	59.700	68.100
Transmitting ERP (watts)	0.430	11.130	78.320	144.460	52.750	5.690	0.300	0.320

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)	94.500	82.000	56.400	72.200	75.600	74.900	59.700	68.100
Transmitting ERP (watts)	1.200	0.300	0.390	2.840	38.070	131.240	101.290	16.150

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
24	37-59-45.9 N	085-57-01.3 W	128.0	38.0	

Address: In the City of

City: West Point County: HARDIN State: KY Construction Deadline:

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)	29.900	29.900	29.900	29.900	29.900	29.900	29.900	29.900
Transmitting ERP (watts)	1.570	1.370	8.820	47.380	124.620	143.080	68.480	15.690

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
25	37-45-48.5 N	085-36-59.1 W	154.2	129.5	1204257

Address: Hardin East cell, 6670 Old Bellwood Road

City: Bardstown County: NELSON State: KY Construction Deadline:

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)	34.600	35.200	61.100	39.000	51.400	29.900	62.200	76.800
Transmitting ERP (watts)	112.340	35.530	3.720	0.260	0.290	0.450	12.040	74.220

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)	34.600	35.200	61.100	39.000	51.400	29.900	62.200	76.800
Transmitting ERP (watts)	4.920	55.230	162.990	105.240	15.570	1.050	0.380	0.440

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)	34.600	35.200	61.100	39.000	51.400	29.900	62.200	76.800
Transmitting ERP (watts)	0.350	0.350	0.350	0.350	15.750	146.950	90.610	5.990

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
26	37-14-59.0 N	085-21-27.8 W	222.8	30.5	1241661

Address: Green River Dam, Southeast of intersection of KY Hwy 55 and Tebbs Bend Road

City: Campbellsville County: TAYLOR State: KY Construction Deadline:

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)	29.900	29.900	29.900	29.900	29.900	37.100	50.200	29.900
Transmitting ERP (watts)	182.210	79.990	9.240	0.460	0.370	0.480	10.610	83.760

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)	29.900	29.900	29.900	29.900	29.900	37.100	50.200	29.900
Transmitting ERP (watts)	0.460	7.670	71.160	181.870	94.160	12.200	0.710	0.370

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)	29.900	29.900	29.900	29.900	29.900	37.100	50.200	29.900
Transmitting ERP (watts)	1.520	0.370	0.480	3.570	47.930	165.220	127.520	20.330

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
27	37-56-34.5 N	084-57-41.8 W	279.2	99.1	1219406

Address: Anderson South, Wharton Farm Road

City: Willisburg County: ANDERSON State: KY Construction Deadline:

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)	124.100	131.600	132.200	109.900	108.100	124.200	120.600	124.900
Transmitting ERP (watts)	25.020	98.760	122.250	55.980	8.450	0.600	0.430	4.550

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)	124.100	131.600	132.200	109.900	108.100	124.200	120.600	124.900
Transmitting ERP (watts)	1.160	0.460	5.100	28.820	122.200	165.980	91.360	14.410

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)	124.100	131.600	132.200	109.900	108.100	124.200	120.600	124.900
Transmitting ERP (watts)	112.680	31.600	3.530	0.250	1.200	5.330	43.730	119.660

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
28	37-52-43.2 N	085-16-10.5 W	244.4	97.5	1218674

Address: Nelson East, Bluegrass Parkway

City: Bloomfield County: NELSON State: KY Construction Deadline:

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)	103.900	93.300	95.300	84.000	105.200	83.100	95.100	108.900
Transmitting ERP (watts)	177.070	26.860	1.040	0.400	0.400	0.400	2.910	88.540

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)	103.900	93.300	95.300	84.000	105.200	83.100	95.100	108.900
Transmitting ERP (watts)	1.050	53.470	192.820	50.140	1.980	0.400	0.400	0.400

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)	103.900	93.300	95.300	84.000	105.200	83.100	95.100	108.900
Transmitting ERP (watts)	0.580	0.400	0.400	0.400	7.690	130.960	146.270	13.900

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
29	37-33-17.6 N	086-04-47.0 W	255.7	78.6	1224566

Address: Eastview, 1051 Rock Creek Road

City: Summit County: HARDIN State: KY Construction Deadline:

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)	89.500	109.000	115.900	115.100	112.600	103.200	118.000	108.100
Transmitting ERP (watts)	137.170	29.500	2.640	0.330	0.420	1.320	26.840	127.750

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)	89.500	109.000	115.900	115.100	112.600	103.200	118.000	108.100
Transmitting ERP (watts)	9.450	74.650	162.390	71.290	8.230	0.410	0.330	0.420

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)	89.500	109.000	115.900	115.100	112.600	103.200	118.000	108.100
Transmitting ERP (watts)	1.350	0.330	0.430	3.180	42.710	147.250	113.650	18.120

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
30	37-40-47.5 N	086-03-13.7 W	258.2	77.7	1256862

Address: Howe Valley, 6509 Hardinsburg Road

City: Cecilia County: HARDIN State: KY Construction Deadline:

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)	92.500	89.500	105.300	124.100	106.700	108.900	118.300	96.600
Transmitting ERP (watts)	33.930	116.960	90.270	14.390	1.070	0.260	0.340	2.530

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)	92.500	89.500	105.300	124.100	106.700	108.900	118.300	96.600
Transmitting ERP (watts)	0.260	0.340	7.510	59.300	128.990	56.630	6.540	0.320

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)	92.500	89.500	105.300	124.100	106.700	108.900	118.300	96.600
Transmitting ERP (watts)	30.240	2.840	0.260	0.330	0.690	16.910	90.270	116.960

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
31	37-46-52.1 N	085-29-41.6 W	186.8	77.7	1222666

Address: Nelson West, on Highway 31 East

City: Bardstown County: NELSON State: KY Construction Deadline:

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)	45.400	29.900	37.400	48.500	55.000	84.100	76.400	37.400
Transmitting ERP (watts)	148.100	66.150	7.950	0.410	0.330	0.390	8.520	69.270

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)	45.400	29.900	37.400	48.500	55.000	84.100	76.400	37.400
Transmitting ERP (watts)	2.890	38.950	135.070	104.850	17.400	1.320	0.330	0.390

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)	45.400	29.900	37.400	48.500	55.000	84.100	76.400	37.400
Transmitting ERP (watts)	2.570	0.330	0.390	1.200	24.580	114.960	126.050	28.220

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
32	37-45-22.0 N	085-19-04.1 W	213.4	57.9	1240441

Address: Bardstown SE cell, 7513 U.S. Route 150, 2.1 km east of

City: Fredericktown County: WASHINGTON State: KY Construction Deadline:

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)	43.100	47.100	33.500	29.900	29.900	55.400	79.700	44.000
Transmitting ERP (watts)	221.490	252.790	94.940	13.100	0.880	1.190	10.560	63.690

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)	43.100	47.100	33.500	29.900	29.900	55.400	79.700	44.000
Transmitting ERP (watts)	7.630	43.130	182.830	248.350	136.700	21.560	1.730	0.680

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)	43.100	47.100	33.500	29.900	29.900	55.400	79.700	44.000
Transmitting ERP (watts)	41.880	4.140	0.520	2.890	22.300	119.580	253.430	200.980

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
33	37-34-40.5 N	085-08-12.5 W	294.1	93.0	1261393

Address: Penick, 6715 Danville Highway (KY11776-A)

City: Lebanon County: MARION State: KY Construction Deadline:

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)	120.100	95.800	76.100	74.200	106.700	133.900	113.300	113.200
Transmitting ERP (watts)	17.310	81.910	91.780	21.270	1.870	0.260	0.280	0.860

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)	120.100	95.800	76.100	74.200	106.700	133.900	113.300	113.200
Transmitting ERP (watts)	0.300	0.480	13.100	80.300	122.700	38.140	3.840	0.260

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)	120.100	95.800	76.100	74.200	106.700	133.900	113.300	113.200
Transmitting ERP (watts)	6.540	0.320	0.260	0.340	7.510	59.300	128.990	56.630

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
34	37-15-19.8 N	085-35-11.9 W	216.1	77.7	1266730

Address: Webbs, 5986 Highway 1464

City: Greensburg County: GREEN State: KY Construction Deadline:

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)	74.800	92.800	83.300	89.500	54.500	70.300	85.800	89.900
Transmitting ERP (watts)	45.770	117.640	63.170	8.330	0.490	0.260	0.300	4.900

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)	74.800	92.800	83.300	89.500	54.500	70.300	85.800	89.900
Transmitting ERP (watts)	0.440	0.920	22.500	120.830	155.660	41.900	4.000	0.380

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)	74.800	92.800	83.300	89.500	54.500	70.300	85.800	89.900
Transmitting ERP (watts)	2.760	0.260	0.300	0.630	15.510	83.280	107.290	28.880

Licensee Name: CELLCO PARTNERSHIP

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File Number: 0009262187

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
35	37-42-18.4 N	086-12-20.7 W	255.7	77.7	1264212

Address: Vertrees, 15921 Hardinsburg Road

City: Cecilia County: HARDIN State: KY Construction Deadline:

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)	101.300	69.700	113.300	109.300	123.000	96.700	119.800	106.400
Transmitting ERP (watts)	19.520	91.310	100.120	22.420	2.040	0.260	0.310	0.960

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)	101.300	69.700	113.300	109.300	123.000	96.700	119.800	106.400
Transmitting ERP (watts)	0.260	0.300	3.390	38.070	112.340	72.530	10.730	0.730

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)	101.300	69.700	113.300	109.300	123.000	96.700	119.800	106.400
Transmitting ERP (watts)	28.880	2.760	0.260	0.300	0.630	15.510	83.280	107.290

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
36	37-53-29.0 N	085-31-56.0 W	220.7	78.3	1062550

Address: Bardstown NW, 720 South Saint Gregory Road

City: Samuels County: NELSON State: KY Construction Deadline:

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)	104.400	71.100	57.700	59.000	95.100	74.500	82.800	83.900
Transmitting ERP (watts)	51.350	131.990	70.890	9.340	0.550	0.300	0.330	5.500

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)	104.400	71.100	57.700	59.000	95.100	74.500	82.800	83.900
Transmitting ERP (watts)	0.320	0.500	13.510	83.280	126.050	39.860	4.170	0.300

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)	104.400	71.100	57.700	59.000	95.100	74.500	82.800	83.900
Transmitting ERP (watts)	13.350	1.250	0.300	0.300	1.040	15.960	64.650	62.090

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File Number: 0009262187

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
37	37-25-20.1 N	085-16-59.5 W	333.5	60.6	

Address: Spurlington, 11.25 km NE of

City: Campbellsville County: TAYLOR State: KY Construction Deadline:

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)	152.900	158.600	119.800	124.800	156.800	140.700	131.400	136.200
Transmitting ERP (watts)	139.820	92.120	15.240	1.400	0.310	3.060	20.470	92.740

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)	152.900	158.600	119.800	124.800	156.800	140.700	131.400	136.200
Transmitting ERP (watts)	6.130	36.940	128.460	146.610	55.060	7.600	0.510	0.690

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)	152.900	158.600	119.800	124.800	156.800	140.700	131.400	136.200
Transmitting ERP (watts)	1.130	0.300	1.540	3.910	19.840	66.020	52.400	10.470

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
38	37-53-15.8 N	085-58-41.2 W	213.4	42.7	

Address: Fort Knox II, 120 Fisher Court

City: Fort Knox County: HARDIN State: KY Construction Deadline:

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)	73.300	58.300	82.500	33.300	37.900	29.900	42.100	69.300
Transmitting ERP (watts)	112.350	104.850	19.980	1.660	0.300	0.350	1.660	27.580

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)	73.300	58.300	82.500	33.300	37.900	29.900	42.100	69.300
Transmitting ERP (watts)	0.330	5.500	51.350	131.990	70.890	9.340	0.550	0.300

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)	73.300	58.300	82.500	33.300	37.900	29.900	42.100	69.300
Transmitting ERP (watts)	4.170	0.300	0.320	0.500	13.510	83.280	126.050	39.860

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
39	37-48-30.9 N	085-59-37.8 W	217.3	92.6	1230567

Address: Otter Road

City: Vine Grove County: HARDIN State: KY Construction Deadline:

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)	76.300	83.600	60.600	40.000	46.200	65.400	50.900	60.600
Transmitting ERP (watts)	117.640	52.550	6.320	0.320	0.260	0.310	6.770	55.020

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)	76.300	83.600	60.600	40.000	46.200	65.400	50.900	60.600
Transmitting ERP (watts)	0.630	15.510	83.280	107.290	28.880	2.760	0.260	0.300

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)	76.300	83.600	60.600	40.000	46.200	65.400	50.900	60.600
Transmitting ERP (watts)	1.050	0.260	0.310	2.290	30.940	107.290	83.280	13.820

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
40	37-26-38.8 N	085-45-12.8 W	264.3	77.7	1254845

Address: 1.3 km northwest of

City: Magnolia County: LARUE State: KY Construction Deadline:

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)	108.800	87.900	76.000	113.300	120.400	94.200	96.100	101.400
Transmitting ERP (watts)	116.290	103.170	20.820	1.540	0.380	0.270	3.320	29.820

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)	108.800	87.900	76.000	113.300	120.400	94.200	96.100	101.400
Transmitting ERP (watts)	0.330	5.430	50.380	128.750	66.660	8.640	0.500	0.260

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)	108.800	87.900	76.000	113.300	120.400	94.200	96.100	101.400
Transmitting ERP (watts)	3.840	0.260	0.300	0.480	13.100	80.300	122.700	38.140

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
41	37-11-24.9 N	085-26-58.6 W	258.8	77.7	1258491

Address: Gresham, 501 Bramlett Road

City: Greensburg County: GREEN State: KY Construction Deadline:

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)	116.300	118.700	101.700	114.600	112.000	92.300	110.500	133.600
Transmitting ERP (watts)	3.000	26.760	106.800	96.730	19.980	1.630	0.340	0.280

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)	116.300	118.700	101.700	114.600	112.000	92.300	110.500	133.600
Transmitting ERP (watts)	0.850	0.400	0.640	9.170	71.480	176.260	95.530	13.590

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)	116.300	118.700	101.700	114.600	112.000	92.300	110.500	133.600
Transmitting ERP (watts)	118.730	39.040	3.990	0.320	0.280	1.330	13.290	78.990

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
42	37-36-21.0 N	086-03-25.0 W	259.9	91.1	1009674

Address: Stephensburg, 2.0 km North of

City: Eastview County: HARDIN State: KY Construction Deadline:

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)	103.500	114.400	126.400	131.700	147.600	118.400	112.300	114.700
Transmitting ERP (watts)	117.640	52.550	6.320	0.320	0.260	0.310	6.770	55.020

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)	103.500	114.400	126.400	131.700	147.600	118.400	112.300	114.700
Transmitting ERP (watts)	0.630	15.510	83.280	107.290	28.880	2.760	0.260	0.300

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)	103.500	114.400	126.400	131.700	147.600	118.400	112.300	114.700
Transmitting ERP (watts)	2.040	0.260	0.310	0.960	19.520	91.310	100.120	22.420

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
43	37-48-17.5 N	085-51-07.8 W	256.0	83.8	1205260

Address: Prather, 7891 Shepardsville Road

City: Elizabethtown County: HARDIN State: KY Construction Deadline:

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)	153.800	166.100	158.500	104.800	75.900	78.100	103.200	115.400
Transmitting ERP (watts)	11.750	66.270	98.050	32.810	3.770	0.260	0.320	0.470

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)	153.800	166.100	158.500	104.800	75.900	78.100	103.200	115.400
Transmitting ERP (watts)	0.240	0.240	0.270	16.050	108.530	50.760	2.790	0.240

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)	153.800	166.100	158.500	104.800	75.900	78.100	103.200	115.400
Transmitting ERP (watts)	6.320	0.360	0.260	0.340	6.770	32.190	47.920	30.790

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
44	37-25-41.0 N	085-39-31.8 W	292.9	77.7	1262106

Address: Green North, 788 Sand Ridge Road

City: Magnolia County: LARUE State: KY Construction Deadline:

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)	96.800	115.600	118.800	142.400	144.600	148.100	117.600	121.300
Transmitting ERP (watts)	117.640	52.550	6.320	0.320	0.260	0.310	6.770	55.020

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)	96.800	115.600	118.800	142.400	144.600	148.100	117.600	121.300
Transmitting ERP (watts)	0.700	13.920	51.730	61.900	22.820	2.940	0.260	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)	96.800	115.600	118.800	142.400	144.600	148.100	117.600	121.300
Transmitting ERP (watts)	1.160	0.260	0.340	2.450	24.450	61.900	51.730	12.400

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
45	37-45-49.2 N	085-47-28.0 W	212.1	83.8	1211565

Address: I-65 Rock Cut, 781 Casey Lane

City: Elizabethtown County: HARDIN State: KY Construction Deadline:

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)	90.600	106.500	109.000	29.900	29.900	33.000	29.900	51.700
Transmitting ERP (watts)	79.530	148.100	55.020	6.170	0.330	0.350	0.440	11.500

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)	90.600	106.500	109.000	29.900	29.900	33.000	29.900	51.700
Transmitting ERP (watts)	0.480	0.550	6.200	69.530	205.190	132.480	19.600	1.320

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)	90.600	106.500	109.000	29.900	29.900	33.000	29.900	51.700
Transmitting ERP (watts)	10.850	0.420	0.310	0.310	0.310	5.700	98.990	111.060

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
46	37-31-11.6 N	085-52-28.2 W	243.8	37.0	

Address: Sonora DT-WT, Water Tank, 2.0 km southeast of

City: Sonora County: LARUE State: KY Construction Deadline:

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)	55.900	52.800	41.400	29.900	40.900	56.000	65.000	62.700
Transmitting ERP (watts)	148.100	66.150	7.950	0.410	0.330	0.390	8.520	69.270

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)	55.900	52.800	41.400	29.900	40.900	56.000	65.000	62.700
Transmitting ERP (watts)	0.800	19.520	104.850	135.070	36.350	3.470	0.330	0.380

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)	55.900	52.800	41.400	29.900	40.900	56.000	65.000	62.700
Transmitting ERP (watts)	1.320	0.200	0.390	2.890	38.950	135.070	104.850	17.400

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
47	37-29-39.8 N	085-11-34.3 W	223.7	77.7	1276116

Address: Bradfordsville, 725 Settles Road

City: Lebanon County: MARION State: KY Construction Deadline:

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)	29.900	29.900	29.900	29.900	33.000	29.900	86.600	58.500
Transmitting ERP (watts)	18.240	82.650	124.610	82.100	13.580	1.250	0.280	2.730

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)	29.900	29.900	29.900	29.900	33.000	29.900	86.600	58.500
Transmitting ERP (watts)	0.450	0.620	5.460	32.920	114.480	130.660	49.070	6.770

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)	29.900	29.900	29.900	29.900	33.000	29.900	86.600	58.500
Transmitting ERP (watts)	112.910	27.380	2.950	0.270	1.500	8.200	53.810	130.660

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
48	37-19-48.0 N	085-32-44.0 W	246.9	48.5	

Address: Summersville WT, Water Tank in the Town of

City: Summersville County: GREEN State: KY Construction Deadline:

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)	41.400	67.100	64.900	91.900	88.100	93.500	88.200	56.700
Transmitting ERP (watts)	92.740	139.820	92.120	15.240	1.400	0.310	3.060	20.470

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)	41.400	67.100	64.900	91.900	88.100	93.500	88.200	56.700
Transmitting ERP (watts)	1.010	6.140	44.740	137.360	142.220	45.580	5.530	0.370

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)	41.400	67.100	64.900	91.900	88.100	93.500	88.200	56.700
Transmitting ERP (watts)	37.900	4.240	0.300	1.440	6.390	52.450	143.540	135.170

Licensee Name: CELLCO PARTNERSHIP

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
49	37-48-34.0 N	085-34-51.6 W	177.7	85.3	1269851

Address: Bardstown West, 6656 Boston Road

City: Bardstown County: NELSON State: KY Construction Deadline:

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)	54.100	54.900	68.000	76.100	91.500	91.500	107.900	77.100
Transmitting ERP (watts)	9.020	56.820	102.510	39.980	4.940	0.260	0.300	0.370

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)	54.100	54.900	68.000	76.100	91.500	91.500	107.900	77.100
Transmitting ERP (watts)	0.240	0.550	1.400	11.850	11.560	11.830	2.780	0.960

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)	54.100	54.900	68.000	76.100	91.500	91.500	107.900	77.100
Transmitting ERP (watts)	3.720	0.260	0.290	0.450	12.040	74.220	112.340	35.530

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
50	37-38-16.1 N	085-49-41.4 W	254.5	80.8	1205593

Address: Lincoln Parkway, Site LV0115 @ 342 Fultz Road

City: Elizabethtown County: HARDIN State: KY Construction Deadline:

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)	82.500	105.200	68.900	96.400	103.300	107.000	113.200	94.800
Transmitting ERP (watts)	41.260	113.640	22.670	0.880	0.240	0.240	0.240	1.010

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)	82.500	105.200	68.900	96.400	103.300	107.000	113.200	94.800
Transmitting ERP (watts)	0.240	0.270	16.050	108.530	50.760	2.790	0.240	0.240

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)	82.500	105.200	68.900	96.400	103.300	107.000	113.200	94.800
Transmitting ERP (watts)	16.430	0.680	0.240	0.240	0.240	0.920	31.300	80.450

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
51	37-35-28.7 N	085-14-56.6 W	262.4	60.7	1267688

Address: Lebanon Downtown, 645 Henrickson Drive (9LV1141G)

City: Lebanon County: MARION State: KY Construction Deadline:

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)	85.500	58.600	49.200	58.400	73.300	87.100	102.000	96.000
Transmitting ERP (watts)	16.490	101.100	154.470	48.010	4.830	0.330	0.380	0.600

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)	85.500	58.600	49.200	58.400	73.300	87.100	102.000	96.000
Transmitting ERP (watts)	0.330	0.430	2.050	33.870	137.170	124.840	23.380	1.910

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)	85.500	58.600	49.200	58.400	73.300	87.100	102.000	96.000
Transmitting ERP (watts)	83.920	10.870	0.630	0.330	0.410	6.840	63.420	162.090

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
52	37-35-51.0 N	085-40-04.0 W	271.6	91.1	1063508

Address: Lincoln Home, in the city of

City: WHITE CITY County: LARUE State: KY Construction Deadline:

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)	144.400	169.100	139.400	136.700	88.200	113.600	120.600	89.700
Transmitting ERP (watts)	20.920	81.390	73.540	16.350	1.210	0.260	0.310	1.880

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)	144.400	169.100	139.400	136.700	88.200	113.600	120.600	89.700
Transmitting ERP (watts)	0.270	0.730	8.180	47.900	88.020	46.810	7.270	0.520

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)	144.400	169.100	139.400	136.700	88.200	113.600	120.600	89.700
Transmitting ERP (watts)	35.530	3.720	0.260	0.290	0.450	12.040	74.220	112.340

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
53	37-20-53.0 N	085-20-42.0 W	267.0	59.1	1242907

Address: Campbellsville III, 701 Melrose Drive (KY13176-A)

City: Campbellsville County: TAYLOR State: KY Construction Deadline:

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)	41.100	29.900	56.700	60.100	72.800	97.700	92.400	57.700
Transmitting ERP (watts)	22.480	38.430	28.830	7.290	0.670	0.300	0.340	4.090

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)	41.100	29.900	56.700	60.100	72.800	97.700	92.400	57.700
Transmitting ERP (watts)	0.520	0.340	0.690	10.410	69.430	139.820	62.740	8.250

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)	41.100	29.900	56.700	60.100	72.800	97.700	92.400	57.700
Transmitting ERP (watts)	23.540	4.810	0.340	0.320	0.430	6.960	27.560	39.320

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
54	37-38-13.0 N	085-24-00.0 W	243.8	38.0	

Address: Loretto WT, Water Tank in the Town of

City: Loretto County: MARION State: KY Construction Deadline:

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)	61.400	43.600	34.100	44.800	61.400	57.000	103.700	70.400
Transmitting ERP (watts)	167.010	161.160	30.530	3.300	0.410	9.640	46.850	175.890

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)	61.400	43.600	34.100	44.800	61.400	57.000	103.700	70.400
Transmitting ERP (watts)	0.980	23.880	127.520	165.220	42.710	4.010	0.370	0.460

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)	61.400	43.600	34.100	44.800	61.400	57.000	103.700	70.400
Transmitting ERP (watts)	1.520	0.370	0.480	3.570	47.930	165.220	127.520	20.330

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
55	37-42-47.1 N	085-27-56.7 W	218.2	88.4	1259400

Address: Pine Lick Knob, 11 km south of

City: Bardstown County: NELSON State: KY Construction Deadline:

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)	100.000	80.800	74.900	78.700	81.800	129.800	115.700	119.200
Transmitting ERP (watts)	100.120	93.440	17.800	1.480	0.260	0.310	1.480	24.580

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)	100.000	80.800	74.900	78.700	81.800	129.800	115.700	119.200
Transmitting ERP (watts)	4.660	26.300	113.020	128.080	126.490	27.090	2.180	0.290

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)	100.000	80.800	74.900	78.700	81.800	129.800	115.700	119.200
Transmitting ERP (watts)	3.720	0.260	0.290	0.450	12.040	74.220	112.340	35.530

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
56	37-34-02.3 N	085-43-47.1 W	232.9	42.1	

Address: Hodgenville Downtown, Water Tank, 1.2 km SE of

City: Hodgenville County: LARUE State: KY Construction Deadline:

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)	29.900	46.500	41.400	29.900	29.900	34.000	60.400	31.100
Transmitting ERP (watts)	139.820	92.120	15.240	1.400	0.310	3.060	20.470	92.740

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)	29.900	46.500	41.400	29.900	29.900	34.000	60.400	31.100
Transmitting ERP (watts)	6.130	36.940	128.460	146.610	55.060	7.600	0.510	0.690

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)	29.900	46.500	41.400	29.900	29.900	34.000	60.400	31.100
Transmitting ERP (watts)	3.310	0.300	1.690	9.200	60.380	146.610	126.700	30.720

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
57	37-49-14.0 N	085-25-28.0 W	220.1	110.4	1042220

Address: Bardstown East, 0.4 MI South of US 62, 2.4 MI (3.8 km) ENE of

City: BARDSTOWN County: NELSON State: KY Construction Deadline:

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)	69.700	62.900	69.600	64.300	92.200	105.300	97.800	75.500
Transmitting ERP (watts)	7.170	90.270	75.080	5.830	0.270	0.240	0.240	0.240

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)	69.700	62.900	69.600	64.300	92.200	105.300	97.800	75.500
Transmitting ERP (watts)	0.240	0.240	4.520	78.620	88.210	8.620	0.340	0.240

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)	69.700	62.900	69.600	64.300	92.200	105.300	97.800	75.500
Transmitting ERP (watts)	0.260	0.240	0.240	0.240	2.490	56.960	88.210	10.850

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
58	37-41-03.7 N	085-51-36.8 W	240.8	64.0	1200367

Address: Elizabethtown Downtown, 1515 Fisher Ridge Rd

City: Elizabethtown County: HARDIN State: KY Construction Deadline:

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)	44.200	72.100	29.900	53.800	66.500	84.300	59.700	55.700
Transmitting ERP (watts)	103.650	30.190	1.570	0.310	0.310	0.310	0.790	31.570

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)	44.200	72.100	29.900	53.800	66.500	84.300	59.700	55.700
Transmitting ERP (watts)	0.310	3.760	84.830	126.930	15.260	0.600	0.310	0.310

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)	44.200	72.100	29.900	53.800	66.500	84.300	59.700	55.700
Transmitting ERP (watts)	0.330	0.310	0.310	0.310	13.670	120.870	74.970	4.960

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
59	37-42-30.7 N	085-57-36.0 W	252.7	44.5	1256880

Address: Elizabethtown West, 531 Thomas Lane

City: Elizabethtown County: HARDIN State: KY Construction Deadline:

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)	68.700	52.800	62.300	71.000	84.900	63.200	73.400	53.000
Transmitting ERP (watts)	166.170	73.380	8.520	0.430	0.330	0.480	9.780	78.620

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)	68.700	52.800	62.300	71.000	84.900	63.200	73.400	53.000
Transmitting ERP (watts)	0.910	22.500	119.470	150.960	39.250	3.620	0.330	0.440

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)	68.700	52.800	62.300	71.000	84.900	63.200	73.400	53.000
Transmitting ERP (watts)	1.370	0.330	0.480	3.300	44.040	150.960	116.750	18.720

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
60	37-47-54.1 N	085-54-40.5 W	260.0	51.8	

Address: Longview, 11 km NNW of

City: Elizabethtown County: HARDIN State: KY Construction Deadline:

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)	128.000	127.700	103.000	59.100	70.600	65.800	76.600	101.300
Transmitting ERP (watts)	30.020	118.460	146.650	67.150	10.130	0.720	0.520	5.460

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)	128.000	127.700	103.000	59.100	70.600	65.800	76.600	101.300
Transmitting ERP (watts)	0.300	1.440	6.390	52.450	143.540	135.170	37.900	4.240

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)	128.000	127.700	103.000	59.100	70.600	65.800	76.600	101.300
Transmitting ERP (watts)	104.590	19.280	1.710	0.300	1.930	15.990	80.200	144.040

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
61	37-39-21.4 N	085-30-55.0 W	174.3	88.4	1278910

Address: New Hope, 4808 New Hope Road

City: New Haven County: NELSON State: KY Construction Deadline:

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)	76.600	63.900	60.000	50.400	57.100	62.100	51.900	91.000
Transmitting ERP (watts)	130.990	103.880	21.640	2.140	0.270	1.490	11.530	61.810

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)	76.600	63.900	60.000	50.400	57.100	62.100	51.900	91.000
Transmitting ERP (watts)	3.940	22.290	94.500	128.360	70.660	11.140	0.890	0.350

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)	76.600	63.900	60.000	50.400	57.100	62.100	51.900	91.000
Transmitting ERP (watts)	4.930	0.330	0.900	5.470	39.870	122.420	126.750	40.620

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
62	37-39-14.7 N	085-07-57.5 W	254.5	33.5	

Address: Washington East, 8.5 km southeast of

City: Springfield County: WASHINGTON State: KY Construction Deadline:

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)	42.800	29.900	29.900	29.900	29.900	29.900	36.700	48.800
Transmitting ERP (watts)	21.910	117.640	151.550	40.790	3.900	0.370	0.430	0.890

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)	42.800	29.900	29.900	29.900	29.900	29.900	36.700	48.800
Transmitting ERP (watts)	0.370	0.420	6.930	64.650	166.170	89.240	11.760	0.690

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)	42.800	29.900	29.900	29.900	29.900	29.900	36.700	48.800
Transmitting ERP (watts)	50.180	5.250	0.370	0.410	0.630	17.000	104.850	158.690

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
63	37-47-04.8 N	085-10-14.2 W	245.1	33.5	

Address: Washington North, 12.0 km northeast of

City: Springfield County: WASHINGTON State: KY Construction Deadline:

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)	47.200	35.000	34.500	29.900	33.500	50.700	69.700	58.500
Transmitting ERP (watts)	141.440	132.000	25.150	2.090	0.370	0.440	2.090	34.720

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)	47.200	35.000	34.500	29.900	33.500	50.700	69.700	58.500
Transmitting ERP (watts)	0.420	6.930	64.650	166.170	89.240	11.760	0.690	0.370

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)	47.200	35.000	34.500	29.900	33.500	50.700	69.700	58.500
Transmitting ERP (watts)	5.250	0.370	0.410	0.630	17.000	104.850	158.690	50.180

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
64	37-42-23.0 N	085-52-36.0 W	239.9	33.2	1025387

Address: Helmwood Drive Water Tower, Helmwood Drive at Cherry Wood Drive

City: Elizabethtown County: HARDIN State: KY Construction Deadline:

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)	40.300	65.400	42.200	29.900	46.600	53.000	30.600	35.900
Transmitting ERP (watts)	13.660	127.520	78.630	5.190	0.310	0.310	0.310	0.310

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)	40.300	65.400	42.200	29.900	46.600	53.000	30.600	35.900
Transmitting ERP (watts)	0.310	0.310	0.790	40.320	146.410	38.510	1.570	0.310

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)	40.300	65.400	42.200	29.900	46.600	53.000	30.600	35.900
Transmitting ERP (watts)	15.330	0.570	0.310	0.310	0.310	3.510	82.330	124.620

Licensee Name: CELLCO PARTNERSHIP

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Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
65	37-43-04.0 N	085-42-31.0 W	254.2	126.4	1019052

Address: Hardin-Nelson, 14.5 km east of

City: Elizabethtown County: HARDIN State: KY Construction Deadline:

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)	216.800	209.000	200.700	168.500	111.200	117.900	144.800	168.700
Transmitting ERP (watts)	65.140	85.560	23.840	2.300	0.240	0.240	0.510	11.990

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)	216.800	209.000	200.700	168.500	111.200	117.900	144.800	168.700
Transmitting ERP (watts)	0.260	1.750	24.390	85.560	66.660	11.450	0.880	0.240

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)	216.800	209.000	200.700	168.500	111.200	117.900	144.800	168.700
Transmitting ERP (watts)	6.620	0.520	0.240	0.240	1.700	19.410	58.280	39.630

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
66	37-54-01.0 N	085-55-33.5 W	209.1	47.0	

Address: Fort Knox III, Water tank in the town of

City: Fort Knox County: HARDIN State: KY Construction Deadline:

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)	82.100	62.400	67.400	48.800	29.900	39.300	38.000	61.100
Transmitting ERP (watts)	51.750	146.700	115.170	23.010	1.860	0.300	1.820	7.840

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)	82.100	62.400	67.400	48.800	29.900	39.300	38.000	61.100
Transmitting ERP (watts)	0.350	3.430	22.970	104.060	156.880	103.360	17.100	1.570

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)	82.100	62.400	67.400	48.800	29.900	39.300	38.000	61.100
Transmitting ERP (watts)	61.780	8.520	0.570	0.770	6.870	41.440	144.130	164.500

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
67	37-11-29.0 N	085-36-08.2 W	241.4	32.5	

Address: Pierce, 236 Pierce Donansburg Road

City: Greensburg County: GREEN State: KY Construction Deadline:

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)	66.900	68.100	54.800	29.900	50.100	32.900	61.800	73.100
Transmitting ERP (watts)	53.170	167.440	149.780	35.670	3.490	0.400	0.370	3.630

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)	66.900	68.100	54.800	29.900	50.100	32.900	61.800	73.100
Transmitting ERP (watts)	0.370	0.580	10.680	91.000	179.990	107.410	15.880	1.740

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)	66.900	68.100	54.800	29.900	50.100	32.900	61.800	73.100
Transmitting ERP (watts)	66.780	7.180	0.870	0.370	1.470	25.900	132.880	177.360

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
68	37-46-43.0 N	085-51-42.0 W	269.4	91.1	1065018

Address: Battle Training Road, 7.3 km west of

City: COLESBURG County: HARDIN State: KY Construction Deadline:

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)	147.400	186.900	168.800	108.800	108.200	105.100	120.100	131.500
Transmitting ERP (watts)	2.100	57.790	119.330	18.800	0.690	0.260	0.260	0.260

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)	147.400	186.900	168.800	108.800	108.200	105.100	120.100	131.500
Transmitting ERP (watts)	0.260	0.260	3.460	71.650	109.990	13.420	0.540	0.260

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)	147.400	186.900	168.800	108.800	108.200	105.100	120.100	131.500
Transmitting ERP (watts)	13.420	0.540	0.260	0.260	0.260	3.460	71.650	109.990

Control Points:

Control Pt. No. 1

Address: 216-W LINCOLN TRAIL

City: RADCLIFF County: State: KY Telephone Number:

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

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

Call Sign WQCS429	File Number 0010160221
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date 04-23-2015	Effective Date 09-23-2022	Expiration Date 05-13-2025	Print Date 02-15-2023
Market Number BTA263	Channel Block C	Sub-Market Designator 5	
Market Name Louisville, KY			
1st Build-out Date 05-13-2010	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: WQCS429

File Number: 0010160221

Print Date: 02-15-2023

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

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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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 (WQGA940), File Number (0009774996), 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.

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGA940

File Number: 0009774996

Print Date: 12-21-2021

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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RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign WRAM732	File Number 0009262182
Radio Service WT - 600 MHz Band	

FCC Registration Number (FRN): 0003290673

Grant Date 01-09-2018	Effective Date 01-13-2021	Expiration Date 01-09-2030	Print Date 03-11-2021
Market Number PEA096	Channel Block A	Sub-Market Designator 1	
Market Name Richmond, KY			
1st Build-out Date 01-09-2024	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: WRAM732

File Number: 0009262182

Print Date: 03-11-2021

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WRAY795), File Number, and Radio Service (UU - Upper Microwave Flexible Use 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:

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: WRAY795

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
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RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WRAY796), File Number, and Radio Service (UU - Upper Microwave Flexible Use 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:

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.

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRAY796

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign WREV443	File Number 0009262182
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

Grant Date 12-11-2019	Effective Date 01-13-2021	Expiration Date 12-11-2029	Print Date 03-11-2021
Market Number PEA096	Channel Block A	Sub-Market Designator 3	
Market Name Richmond, 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: WREV443

File Number: 0009262182

Print Date: 03-11-2021

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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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 (WREV444), File Number (0009262182), and Radio Service (UU - Upper Microwave Flexible Use 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:

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.

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WREV444

File Number: 0009262182

Print Date: 03-11-2021

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 WRHE833	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 PEA096	Channel Block M1	Sub-Market Designator 0	
Market Name Richmond, 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: WRHE833

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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Reference Copy

REFERENCE COPY

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.



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 (WRNF549), 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.

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: WRNF549

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

REFERENCE COPY

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.



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 (WRNF554), 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.

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: WRNF554

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

REFERENCE COPY

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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 WRWD815	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date 09-23-2022	Effective Date 09-23-2022	Expiration Date 09-06-2025	Print Date
Market Number BTA263	Channel Block C	Sub-Market Designator 8	
Market Name Louisville, 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: WRWD815

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Report
Reference
Copy

REFERENCE COPY

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.



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 (WRWF637), File Number (0010170298), 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.

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: WRWF637

File Number: 0010170298

Print Date: 02-16-2023

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

1012 S 4th Street, Suite 101
Louisville, Ky 40203
Phone: (502) 636-5111
Fax: (502) 636-5263

SITE NUMBER: 725009

SITE NAME: CK BLACK GNAT

SITE ADDRESS: GREENSBURG RD
CAMPBELLSVILLE, KY 42718

LEASE AREA: 10,000.00

PROPERTY OWNER: MILL MOTOR SALES LLC
5321 GREENSBURG RD
CAMPBELLSVILLE, KY 42718

PARCEL NUMBER: 20-022-03

SOURCE OF TITLE: D.B. 294, PG. 338

DWG BY: SNS FIELD DATE: 03.01.23 DRAFT DATE: 03.17.23
CHKD BY: FLS

FSTAN PROJECT NO.: 22-11666

SHEET 1 OF 2

REVISIONS:

RAWLAND

LOCATION DESCRIPTION

LOCATED ON THE PROPERTY COMEYED TO MILL MOTOR SALES, LLC IN DEED BOOK 294, PAGE 338 AND BEING TRACT #3 BERNARD PENDELTON & CATHERINE M PENDELTON FARM DIVISION, TAYLOR COUNTY, KENTUCKY.

THIS SITE IS LOCATED ON THE GREENSBURG KENTUCKY USGS QUADRANGLE SHEET.

The horizontal datum (coordinates) is referenced to the North American Datum 1983 (NAD 83) and is expressed in terms of Latitude and Longitude in degrees, minutes, seconds, and decimal parts thereof, and is accurate to within 15 feet horizontally. The site vertical datum (elevations and benchmarks) is in terms of the North American Vertical Datum of 1988 (NAVD 88) and is accurate to within +/- 3 feet vertically.

SURVEYOR'S REVIEW OF "SPECIAL EXCEPTIONS"

NOTES CORRESPONDING TO THE FIDELITY NATIONAL TITLE INSURANCE COMPANY, "REPORT OF TITLE", ORDER NUMBER: 38011476 AND REFERENCE NUMBER: CK BLACK GNAT, EFFECTIVE DATE: 10/17/2022.

2. Right-of-Way Easement in favor of Green-Taylor Water District set forth in instrument recorded on October 26, 1967 in Deed Book 96, Page 146. (DOES NOT AFFECT THE LEASE AREA AND ACCESS & UTILITY ESM: SHOWN PER THIS SURVEY)

3. Matters as shown and noted on Plat recorded in Plat Book 1, Page 319A, (THIS SURVEY)

4. Right-of-Way Easement in favor of Green-Taylor Water District set forth in instrument recorded on February 15, 2001 in Deed Book 225, Page 665. (THE LOCATION OF THE EASEMENT IS WAIVE AND AMBIGUOUS THE AFFECT ON THE LEASE AREA AND ACCESS & UTILITY EASEMENT CAN NOT BE DETERMINED.)

5. Right-of-Way Easement in favor of Green-Taylor Water District set forth in instrument recorded on February 15, 2001 in Deed Book 225, Page 668. (THE LOCATION OF THE EASEMENT IS WAIVE AND AMBIGUOUS THE AFFECT ON THE LEASE AREA AND ACCESS & UTILITY EASEMENT CAN NOT BE DETERMINED.)

6. Right-of-Way Easement in favor of Green-Taylor Water District set forth in instrument recorded on February 15, 2001 in Deed Book 225, Page 671. (THE LOCATION OF THE EASEMENT IS WAIVE AND AMBIGUOUS THE AFFECT ON THE LEASE AREA AND ACCESS & UTILITY EASEMENT CAN NOT BE DETERMINED.)

7. Real Estate Mortgage from Mills Motor Sales, LLC, Grantor(s), in favor of Forest Bank, N.A., a Kentucky banking corporation, dated July 13, 2022, and recorded July 13, 2022 in Mortgage Book 662, Page 432, in the original amount of \$200,000.00; Assignment of Leases and Rents, dated July 13, 2022 and recorded July 13, 2022 in Mortgage Book 662, Page 436. (NOT A SURVEY ISSUE)

8. Real Estate Mortgage from Mills Motor Sales, LLC, Grantor(s), in favor of Forest Bank, N.A., a Kentucky banking corporation, dated September 15, 2022, and recorded September 15, 2022 in Mortgage Book 665, Page 394, in the original amount of \$250,000.00; Assignment of Leases and Rents, dated September 15, 2022 and recorded September 15, 2022 in Mortgage Book 665, Page 398. (NOT A SURVEY ISSUE)

LAND SURVEYOR'S CERTIFICATE

TYPE "X" SURVEY: UNADJUSTED TRVERSE CLOSURE BETTER THAN 1 IN 10,000.
TO ALL PARTIES INTERESTED IN TITLE TO PREMISES SURVEYED 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.
This survey and plat meets or exceeds the minimum standards of the governing authorities.
This property is subject to any recorded easements or right of ways not shown hereon.

Frank L. Sealing, II
KY. Reg. No. 3282

"WIRELESS COMMUNICATION SITE SURVEY"

OWNER APPROVAL: _____ DATE: _____

TENANT APPROVAL: _____ DATE: _____

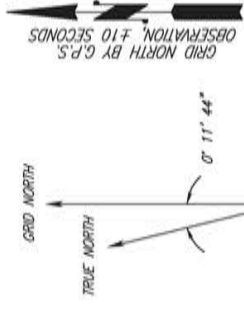
I HAVE REVIEWED THE FLOOD INSURANCE RATE MAP(S) (FIRM) MAP NO. 21217C0150C DATED 05/24/2011 AND THE LEASE AREA DOES NOT APPEAR TO BE IN A FLOOD PRONE AREA. THE LEASE AREA IS LOCATED IN ZONE "X".

QUAD MAP SCALE: 1" = 200'



CURVE	RADIUS	CHORD BEARING	CHORD LENGTH
C1	120.00'	N 54°37'56" E	48.01'
C2	40.00'	N 04°46'54" E	49.47'
C3	70.00'	S 04°48'54" W	86.57'
C4	150.00'	S 54°32'56" W	60.01'

LINE	BEARING	DISTANCE
L1	N 68°05'16" E	30.00'
L2	S 23°54'44" E	35.00'
L3	N 68°05'16" E	44.89'
L4	N 32°43'15" E	30.07'
L5	S 66°05'16" W	44.89'
L6	S 23°54'44" E	35.00'
L7	N 68°05'16" E	30.00'
L8	N 67°08'08" E	10.00'



NORTH IS BASED ON THE SINGLE STATE PLANE COORDINATE SYSTEM AND WAS DETERMINED BY COMPUTATION FROM G.P.S. OBSERVATION ON MARCH 01, 2023.



COORDINATE POINT LOCATION

NAD 1983
LATITUDE: 37° 18' 27.70" N
LONGITUDE: 85° 25' 53.11" W
NAVD 1988
ELEVATION: 176.6'
SINGLE STATE PLANE COORDINATE (BLUE MARBLE GEOGRAPHIC CALCULATOR VERSION 3.0)
NORTHING: 3635784.223
EASTING: 5013905.160

PROJECT BENCHMARK

NORTH: 3635680.394
EAST: 5013996.127
ELEVATION: 786.18'
LOCATION: BEING A 3/4" REBAR W/CAP STAMPED "CONTROL PNT. 72" NORTHEAST OF THE NORTHEAST CORNER OF THE LEASE AREA.



Know what's below. Call before you dig. The utility information shown on this plat, prepared by FSTAN was obtained from the public utility companies shown hereon. It is the contractor's responsibility to verify their existence and location, and to contact the appropriate utility company for final location.

SYMBOL LEGEND

- WOOD POWER POLE
- CONCRETE POWER POLE
- METAL TRAFFIC POLE
- LIGHT POLE
- GUY POLE
- TELEPHONE PEDESTAL
- GUY ANCHOR
- MANHOLE
- REINFORCED CONCRETE PIPE
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- ELECTRIC BOX
- EP: FENCE POST
- SPOT ELEVATION
- SET #5 REBAR (UNLESS OTHERWISE NOTED)
- EXISTING #5 REBAR (UNLESS OTHERWISE NOTED)
- IRON PIN CAPPED
- OVERHEAD ELECTRIC
- UNDERGROUND GAS LINE
- UNDERGROUND WATER LINE
- OVERHEAD ELECTRIC & TELEPHONE LINE
- OVERHEAD TELEPHONE LINE
- DRAINAGE/STORM SEWER LINE
- EXISTING FENCE
- PROPOSED FENCE
- DITCH / SWALE
- SUBJECT PROPERTY BOUNDARY
- RIGHT OF WAY CENTERLINE
- NOTE: SYMBOLS, ABBREVIATIONS, OR UNLISTED DO NOT NECESSARILY APPEAR ON DRAWINGS. USE ONLY AS APPLICABLE.

LINE LEGEND

- OVERHEAD ELECTRIC
- UNDERGROUND GAS LINE
- UNDERGROUND WATER LINE
- OVERHEAD ELECTRIC & TELEPHONE LINE
- OVERHEAD TELEPHONE LINE
- DRAINAGE/STORM SEWER LINE
- EXISTING FENCE
- PROPOSED FENCE
- DITCH / SWALE
- SUBJECT PROPERTY BOUNDARY
- RIGHT OF WAY CENTERLINE
- NOTE: SYMBOLS, ABBREVIATIONS, OR UNLISTED DO NOT NECESSARILY APPEAR ON DRAWINGS. USE ONLY AS APPLICABLE.

SURVEYOR'S NOTES

SOURCE OF BEARING AND ELEVATION IS A G.P.S. OBSERVATION ON MARCH 01, 2023, FROM A GPS CONTINUOUSLY OPERATING REFERENCE STATION DESIGNATION - CAMPBELLVILLE U COUS ARS COUS.D - FPO, PD - DR2717.

SITE SHOWN SUBJECT TO RIGHT OF WAYS AND EASEMENTS SHOWN HEREON OR NOT.

SOURCE OF ADJACENT BASED ON THE SOUTH LINE OF TRACT #3 BERNARD PENDELTON & CATHERINE M PENDELTON FARM DIVISION WHICH HAS THE BEARING OF S 52°26'05" W PER PLAT CABINET A, SLIDE 319A, AND THE CALCULATED BEARING OF S 52°26'05" W.

NO SEARCH OF PUBLIC RECORDS HAS BEEN PERFORMED BY THIS FIRM TO DETERMINE ANY DEFECTS AND/OR AMBIGUOUS IN THE TITLE OF THE ADJACENT TRACT.

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY. EXISTING CONTOURS ARE AT ONE FOOT INTERVALS.



SCALE: 1" = 100' (IN FEET)

- LEGAL DESCRIPTIONS (LEASE AREA)
- LEGAL DESCRIPTIONS (ACCESS ESMT)
- LEGAL DESCRIPTIONS (PARENT TRACT)

LEGAL DESCRIPTIONS:

This is a description for Verizon Wireless, of a lease area to be located on the property of the property conveyed to Mill Motor Sales, LLC. in Deed Book 294, Page 338, and being Tract #3 Bernard Pendleton & Cathrine M Pendleton Farm Division, Taylor County, Kentucky which is further described as follows:

LEASE AREA



Being located on the property of the property conveyed to Mill Motor Sales, LLC. in Deed Book 294, Page 338, and being Tract #3 Bernard Pendleton & Cathrine M Pendleton Farm Division, Taylor County, Kentucky which is further described as follows:

Commencing at a 1/2" rebar found at the southwest corner of the said Mill Motor Sales, LLC. property; Thence traversing said Mill Motor Sales, LLC. property N 05°12'31" E - 64.40' to a set iron rod with a cap stamped "FStan 3282", and being the True Point of Beginning of the Lease Area;
 Thence N 23°54'44" W - 100.00' to a set iron rod with a cap stamped "FStan 3282";
 Thence N 66°05'16" E - 100.00' to a set iron rod with a cap stamped "FStan 3282";
 Thence S 23°54'44" E - 100.00' to a set iron rod with a cap stamped "FStan 3282";
 Thence S 66°05'16" W - 100.00' to the point of beginning, containing 10,000.00 square feet as per survey by Frank L. Sellinger, II dated March 17, 2023.

ACCESS & UTILITY EASEMENT



Being located on the property of the property conveyed to Mill Motor Sales, LLC. in Deed Book 294, Page 338, and being Tract #3 Bernard Pendleton & Cathrine M Pendleton Farm Division, Taylor County, Kentucky which is further described as follows:

Commencing at a 1/2" rebar found at the southwest corner of the said Mill Motor Sales, LLC. property; Thence traversing said Mill Motor Sales, LLC. property N 05°12'31" E - 64.40' to a set iron rod with a cap stamped "FStan 3282", and being the southwest corner of the Lease Area;
 Thence with the perimeter of said Lease Area for the next two (2) calls: (1) N 23°54'44" W - 100.00' to a set iron rod with a cap stamped "FStan 3282";
 Thence (2) N 66°05'16" E - 100.00' to set iron rod with a cap stamped "FStan 3282", and being the True Point of Beginning of the Access & Utility Easement;
 Thence leaving said Lease Area N 66°05'16" E - 30.00' to a set iron rod with a cap stamped "FStan 3282";
 Thence S 23°54'44" E - 35.00' to a set iron rod with a cap stamped "FStan 3282";
 Thence N 66°05'16" E - 44.89' to a set iron rod with a cap stamped "FStan 3282";
 Thence along a curve to the left with a radius of 120.00' and a chord of N 54°32'56" E - 48.01' to a set iron rod with a cap stamped "FStan 3282";
 Thence N 43°00'36" E - 180.18' to a set iron rod with a cap stamped "FStan 3282";
 Thence N 26°53'54" W - 93.84' to a set iron rod with a cap stamped "FStan 3282";
 Thence N 63°06'06" E - 10.00' to a set iron rod with a cap stamped "FStan 3282";
 Thence S 26°53'54" E - 90.18' to a set iron rod with a cap stamped "FStan 3282";
 Thence N 43°00'36" E - 104.91' to a set iron rod with a cap stamped "FStan 3282";
 Thence along a curve to the left with a radius of 40.00' and a chord of N 04°48'54" E - 49.47' to a set iron rod with a cap stamped "FStan 3282";
 Thence N 33°22'49" W - 217.41' to a set iron rod with a cap stamped "FStan 3282" on the south right-of-way of U.S. Highway 68 (Greenburg Road);
 Thence with said right-of-way N 52°43'15" E - 30.07' to a set iron rod with a cap stamped "FStan 3282";
 Thence leaving said U.S. Highway 68 S 33°22'49" E - 219.46' to a set iron rod with a cap stamped "FStan 3282";
 Thence along a curve to the right with a radius of 70.00' and a chord of S 04°48'54" W - 86.57' to a set iron rod with a cap stamped "FStan 3282";
 Thence S 43°00'36" W - 295.74' to a set iron rod with a cap stamped "FStan 3282";
 Thence along a curve to the right with a radius of 150.00' and a chord of S 54°32'56" W - 60.01' to a set iron rod with a cap stamped "FStan 3282";
 Thence S 66°05'16" W - 44.89' to a set iron rod with a cap stamped "FStan 3282";
 Thence S 23°54'44" E - 35.00' to a set iron rod with a cap stamped "FStan 3282";
 Thence S 66°05'16" W - 30.00' to a set iron rod with a cap stamped "FStan 3282", and being the southeast corner of said Lease Area;
 Thence with the east line of said Lease Area N 23°54'44" W - 100.00' to the point of beginning, containing 24,523.07 square feet as per survey by Frank L. Sellinger, II dated March 17, 2023.

PARENT TRACT DESCRIPTION (PROVIDED BY OTHERS)

Property located in Taylor County, Kentucky

The following described property located in Taylor County, Kentucky, together with all improvements thereon and appurtenances thereto, which is more particularly described as follows, to-wit:

Being Tract No. 3 consisting of 5.9119 acres of the Bernard Pendleton and Cathrine M. Pendleton Farm Division according to plat which is found of record in Plat Cabinet A, Slide 319A, records of the Taylor County Clerk's office, Kentucky.

AND BEING the same property conveyed to Mills Motor Sales, LLC, a Kentucky limited liability company from IBP 2, LLC, a Kentucky limited liability company by Limited Special Warranty dated August 16, 2013 and recorded August 16, 2013 in Deed Book D294, Page 338.
 Tax Parcel No. 20-022-03



1012 S 4th Street, Suite 101
 Louisville, Ky 40203
 Phone: (502) 636-5111
 Fax: (502) 636-5263

SITE NUMBER: 725009

SITE NAME: 725009 - CK BLACK GNAT

SITE ADDRESS: GREENSBURG RD
 CAMPBELLSVILLE, KY 42718

LEASE AREA: 10,000.00

PROPERTY OWNER: MILL MOTOR SALES LLC
 5321 GREENSBURG RD
 CAMPBELLSVILLE, KY 42718

PARCEL NUMBER: 20-022-03

SOURCE OF TITLE: D.B. 294, PG. 338

DWG BY: SNS FIELD DATE: DRAFT DATE:
 CHKD BY: FLS 03.01.23 03.17.23

FSTAN PROJECT NO.: 22-11666

SHEET 2 OF 2

REVISIONS:

LAND SURVEYOR'S CERTIFICATE

TYPE "X" SURVEY: UNADJUSTED TRAPDOOR CLOSURE BETTER THAN 1 IN 10,000.
 TO ALL PARTIES INTERESTED IN TITLE TO PREMISES SURVEYED 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. This survey and plat meets or exceeds the minimum standards of the governing authorities. This property is subject to any recorded easements or right of ways not shown hereon.

REV.	DATE	DESCRIPTION
A	09/23/23	ISSUED FOR REVIEW
B	10/31/23	REVISED ISSUED FOR REVIEW
0	03/04/24	ISSUED FOR CONSTRUCTION
1	04/18/24	ISSUED FOR CONSTRUCTION



SITE INFORMATION:
CK BLACK GNAT
5321 GREENSBURG RD,
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

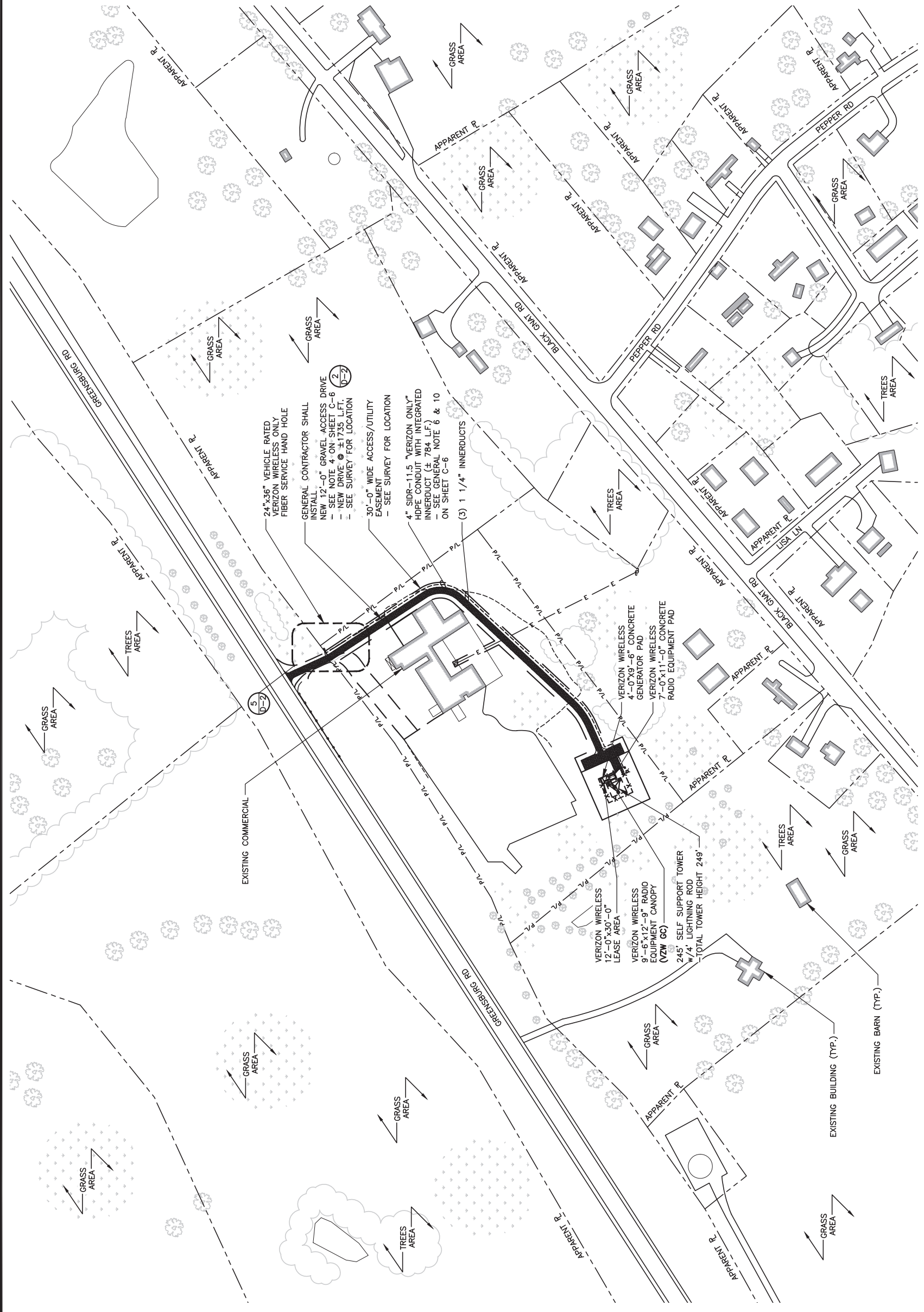
PID NUMBER: 16735940

DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
C-0

MR. PNO & COMPANY REV. 3 FINAL 10/16/23



OVERALL SITE PLAN

SCALE: 1" = 200'

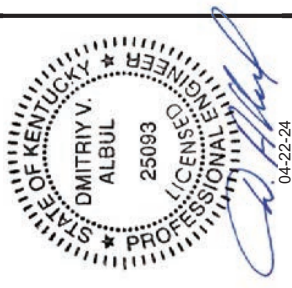


Call Monday thru Friday - 7 am. to 6 pm.
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UTILITY COMPANIES AT LEAST 48 HOURS BEFORE COMMENCING WORK.



49030 Pontiac Trail, Suite 100
Wixom, Michigan 48393
PHONE: (248) 705-9212

REV.	DATE	DESCRIPTION
A	09/23/23	ISSUED FOR REVIEW
B	10/31/23	REVISED ISSUED FOR REVIEW
0	03/04/24	ISSUED FOR CONSTRUCTION
1	04/18/24	ISSUED FOR CONSTRUCTION



SITE INFORMATION:
CK BLACK GNAT
5321 GREENSBURG RD,
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

PID NUMBER: 16735940
DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

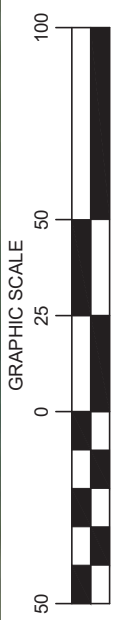
SHEET TITLE:
**OVERALL SITE
PLAN w/AERIAL
OVERLAY**

SHEET NUMBER:
C-1
MK, PND & COMPANY REV. 3 FINAL 10/16/23



**OVERALL SITE PLAN
w/AERIAL OVERLAY**

SCALE: 1" = 50'



Call Monday thru Friday - 7 am. to 6 pm.
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE
LAW TO EXCAVATE WITHOUT NOTIFYING THE
APPROPRIATE AGENCIES AT LEAST 48
WORKING DAYS BEFORE COMMENCING WORK.

REV.	DATE	DESCRIPTION
A	09/23/23	ISSUED FOR REVIEW
B	10/31/23	REVISED ISSUED FOR REVIEW
0	03/04/24	ISSUED FOR CONSTRUCTION
1	04/18/24	ISSUED FOR CONSTRUCTION



SITE INFORMATION:
CK BLACK GNAT
5321 GREENSBURG RD,
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

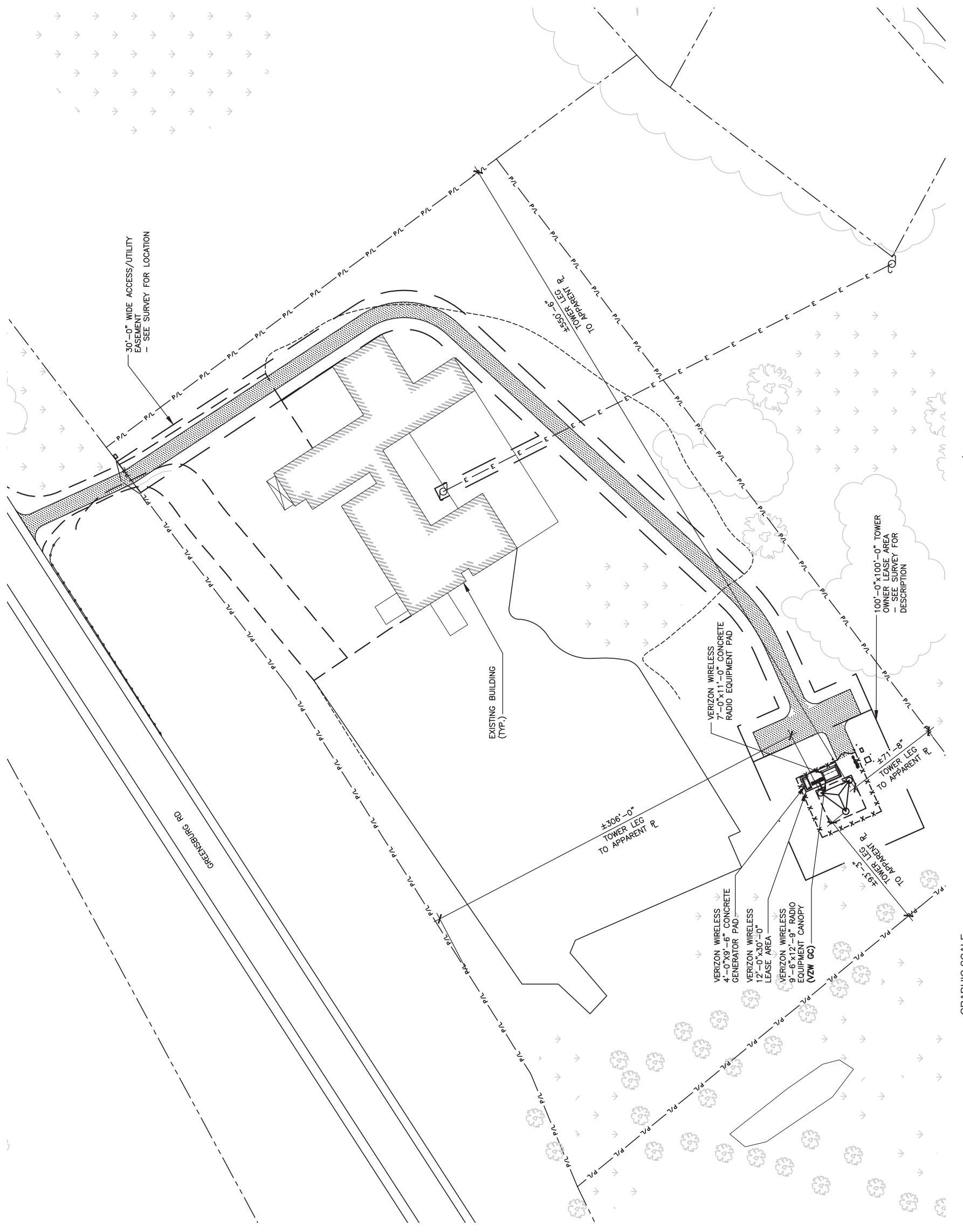
SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

PID NUMBER: 16735940
DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
OVERALL SITE PLAN
w/DISTANCE TO
PROPERTY LINES

SHEET NUMBER:
C-1A
MK PND & COMPANY REV. 3 FINAL 10/16/23



**OVERALL SITE PLAN w/TOWER LEG
DISTANCE TO PROPERTY LINES**

SCALE: 1" = 80'



Call Monday thru Friday - 7 am. to 6 pm.
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE
LAW TO EXCAVATE WITHOUT NOTIFYING THE
UNDERGROUND LOCATION SERVICE TWO (2)
WORKING DAYS BEFORE COMMENCING WORK.

REV.	DATE	DESCRIPTION
A	09/23/23	ISSUED FOR REVIEW
B	10/31/23	REVISED ISSUED FOR REVIEW
0	03/04/24	ISSUED FOR CONSTRUCTION
1	04/18/24	ISSUED FOR CONSTRUCTION



SITE INFORMATION:
CK BLACK GNAT
5321 GREENSBURG RD,
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

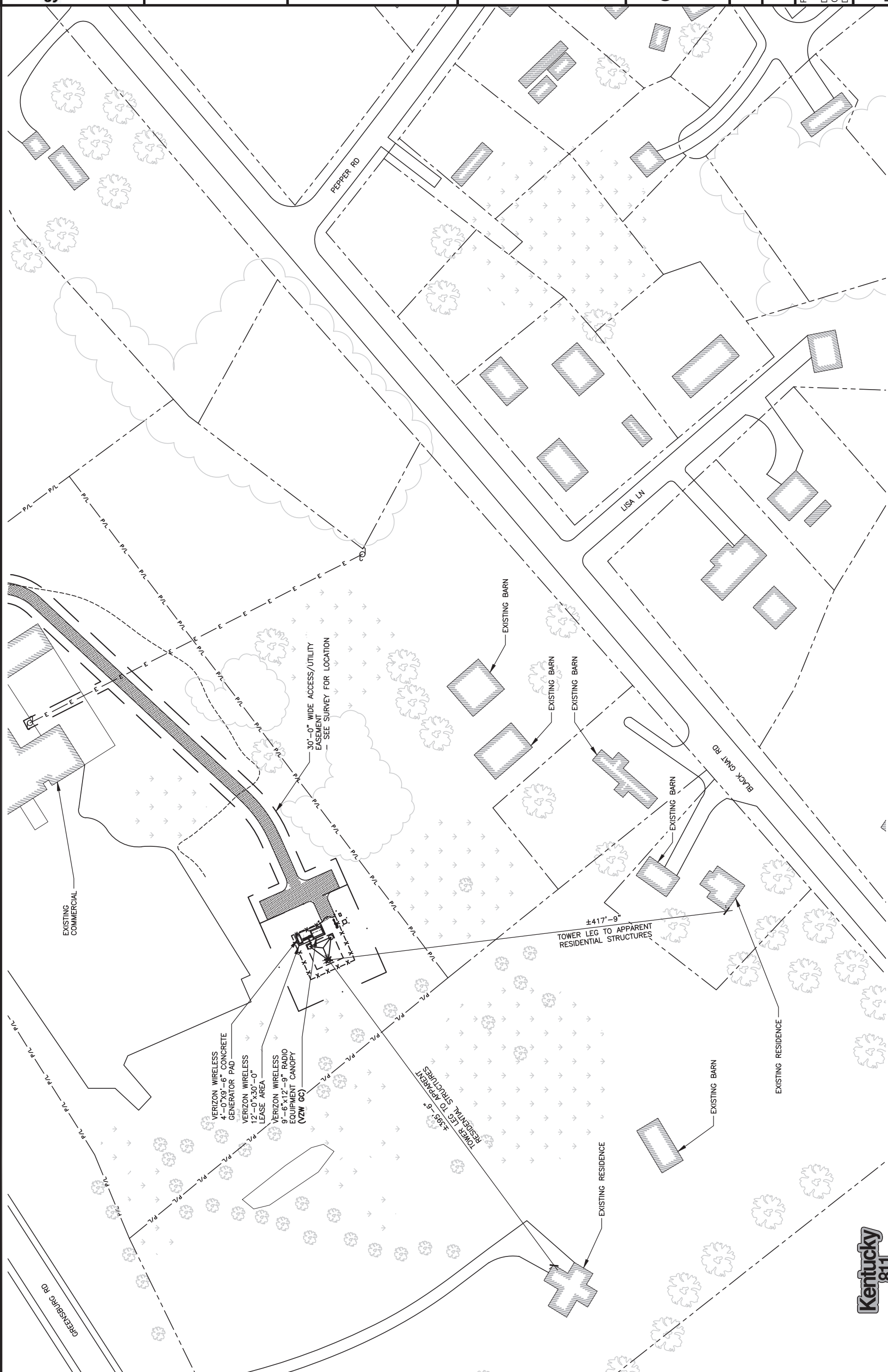
SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

PID NUMBER: 16735940
DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
**OVERALL SITE PLAN w/TOWER
LEG DISTANCE TO RESIDENTIAL
STRUCTURES**

SHEET NUMBER:
C-1B
MK, PND & COMPANY REV. 3 FINAL 10/16/23

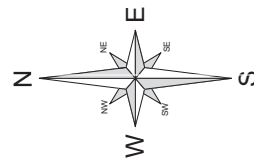


**OVERALL SITE PLAN w/TOWER LEG
DISTANCE TO RESIDENTIAL STRUCTURES**

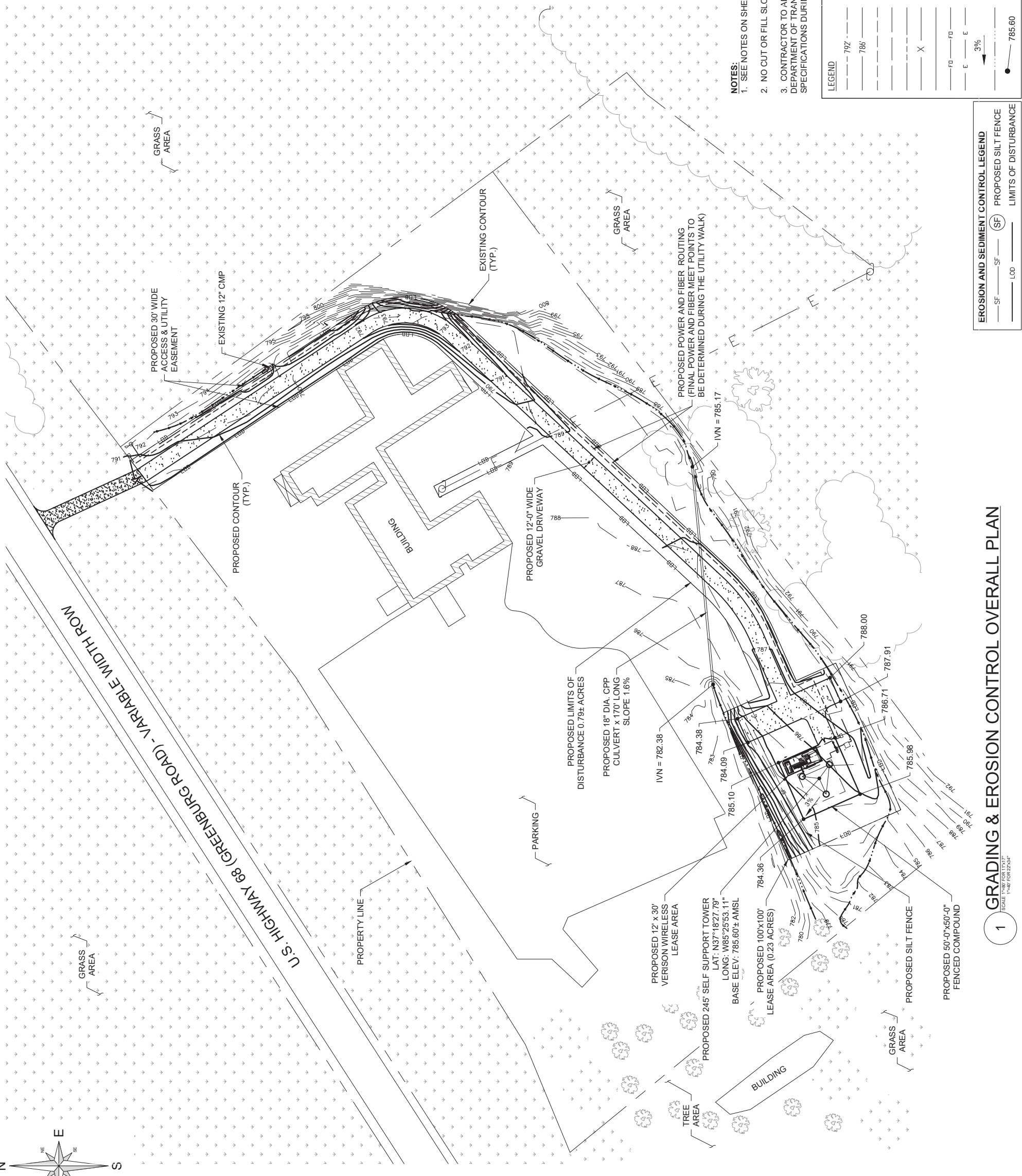
SCALE: 1" = 100'



Call Monday thru Friday - 7 am. to 6 pm.
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE
LAW TO EXCAVATE WITHOUT NOTIFYING THE
UNDERGROUND UTILITY SERVICE (U.S. 811)
FORWARD THIS BEFORE COMMENCING WORK.



U.S. HIGHWAY 68 (GREENBURG ROAD) - VARIABLE WIDTH ROW



SouthernTowers
 250 SIGNAL MOUNTAIN RD., SUITE B
 CHATTANOOGA, TN 37405
 O: 423-531-6300

LAB
 49030 PONTIAC TRAIL, SUITE 400
 WXOM, MICHIGAN 48393
 PHONE: (248) 705-9212

ALBUL ENGINEERING
 3840 E. ROBINSON ROAD
 AMHERST, NY 14228
 WWW.ALBULENG.COM

STATE OF KENTUCKY
 DMITRIY V. ALBUL
 25093
 LICENSED PROFESSIONAL ENGINEER
 04-22-24
 DMITRIY ALBUL
 KY LICENSE NO. 25093

REV.	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY
0	10/01/23	ISSUED FOR REVIEW	AIK	AAN
A	09/22/23	PRELIMINARY	YAY	AAN

CK BLACK GNAT
 725009
 5321 GREENSBURG RD,
 CAMPBELLSVILLE, KY 42718
 TAYLOR COUNTY

PROJECT NUMBER:
35201.LAB.GDP.R112208.0

SHEET NAME:
GRADING & EROSION CONTROL OVERALL PLAN

SHEET NUMBER:
C-2
 SCALE:
 AS SHOWN

- NOTES:**
- SEE NOTES ON SHEETS C-6 & C-7.
 - NO CUT OR FILL SLOPE SHALL BE STEEPER THAN 3H:1V.
 - CONTRACTOR TO ADHERE TO ALL KENTUCKY DEPARTMENT OF TRANSPORTATION REQUIREMENTS AND SPECIFICATIONS DURING CONSTRUCTION

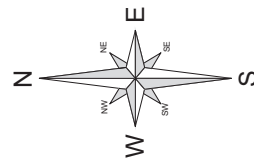
LEGEND

---	792	EXISTING CONTOUR
---	786	PROPOSED CONTOUR
---		EXISTING EASEMENT
---		PROPOSED EASEMENT
---		PROPOSED LEASE AREA
X		PROPOSED FENCE
FD		EXISTING EDGE OF PAVEMENT
E		UNDERGROUND FIBER CONDUIT
---		UNDERGROUND ELECTRICAL CONDUIT
---	3%	PROPOSED SLOPE/DRAINAGE
●	785.60	PROPOSED SPOT ELEV

EROSION AND SEDIMENT CONTROL LEGEND

---	SF	PROPOSED SILT FENCE
---	SF	LIMITS OF DISTURBANCE

1 GRADING & EROSION CONTROL OVERALL PLAN
SCALE: 1"=40' FOR 11X17"
 1"=80' FOR 22X34"



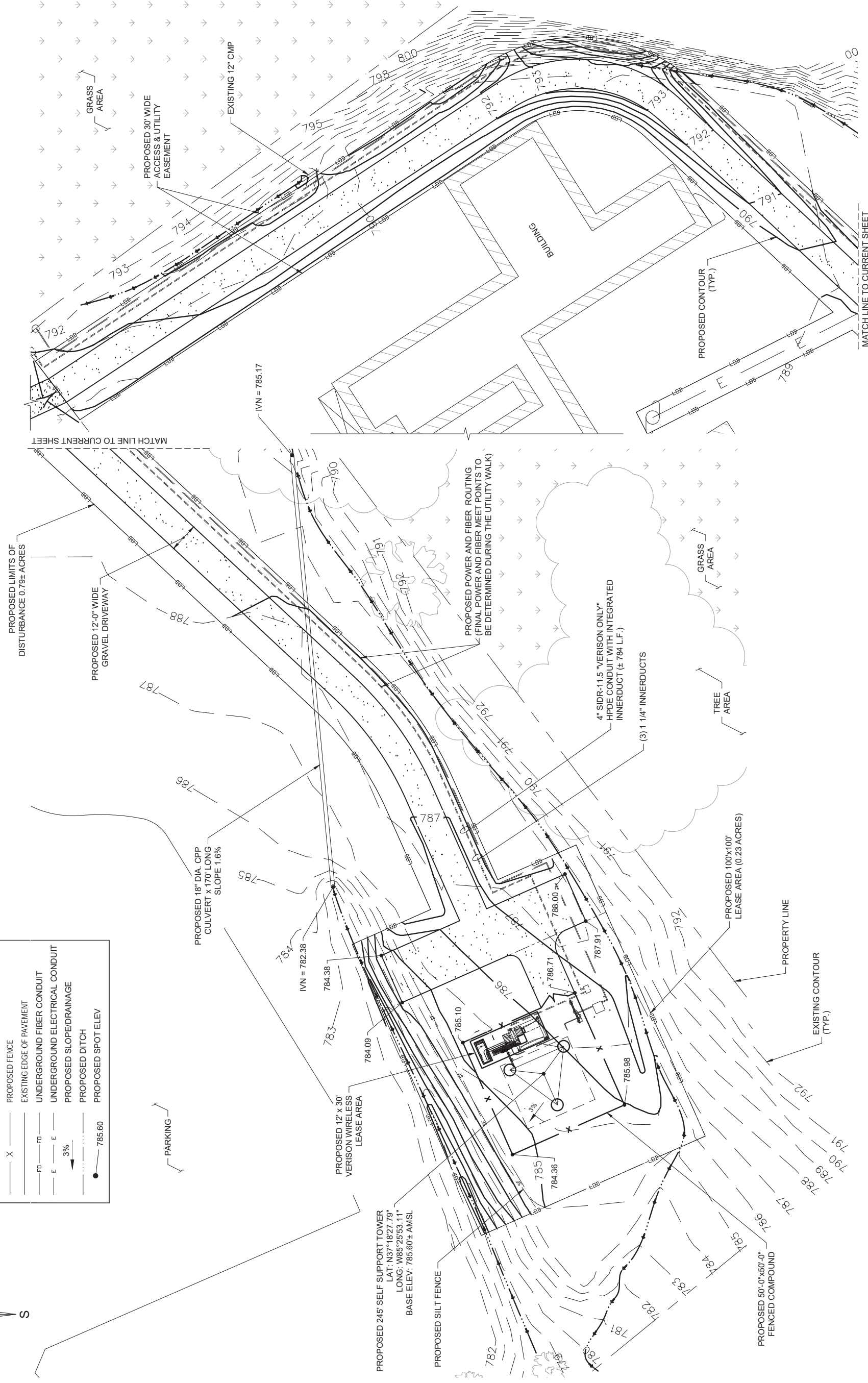
LEGEND

---	792	EXISTING CONTOUR
---	786	PROPOSED CONTOUR
---		EXISTING EASEMENT
---		PROPOSED EASEMENT
---	X	PROPOSED LEASE AREA
---		PROPOSED FENCE
---		EXISTING EDGE OF PAVEMENT
---	FD	UNDERGROUND FIBER CONDUIT
---	E	UNDERGROUND ELECTRICAL CONDUIT
---	3%	PROPOSED SLOPE/DRAINAGE
---	785.60	PROPOSED DITCH
●		PROPOSED SPOT ELEV

EROSION AND SEDIMENT CONTROL LEGEND

---	SF	PROPOSED SILT FENCE
---	SF	LIMITS OF DISTURBANCE
---	L00	LIMITS OF DISTURBANCE

- NOTES:**
1. SEE NOTES ON SHEETS C-6 & C-7.
 2. NO CUT OR FILL SLOPE SHALL BE STEEPER THAT 3H:1V.
 3. CONTRACTOR TO ADHERE TO ALL KENTUCKY DEPARTMENT OF TRANSPORTATION REQUIREMENTS AND SPECIFICATIONS DURING CONSTRUCTION



Southern Towers
 250 SIGNAL MOUNTAIN RD., SUITE B
 CHATTANOOGA, TN 37405
 O: 423-531-6300

LAB
 49030 PONTIAC TRAIL, SUITE 400
 WIXOM, MICHIGAN 48393
 PHONE: (248) 705-9212

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 WWW.ALBULENG.COM

STATE OF KENTUCKY
 DMITRIY V. ALBUL
 25093
 PROFESSIONAL ENGINEER
 KY LICENSE NO. 25093
 04-22-24
 DMITRIY ALBUL

REV	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY
0	10/1/23	ISSUED FOR REVIEW	AIK	AAN
A	09/22/23	PRELIMINARY	YAY	AAN

SITE INFORMATION

CK BLACK GNAT
 725009
 5321 GREENSBURG RD,
 CAMPBELLSVILLE, KY 42718
 TAYLOR COUNTY

PROJECT NUMBER:
35201.LAB.GDP.R112208.0

SHEET NAME:
GRADING & EROSION CONTROL OVERALL PLAN

SHEET NUMBER:
C-2.1

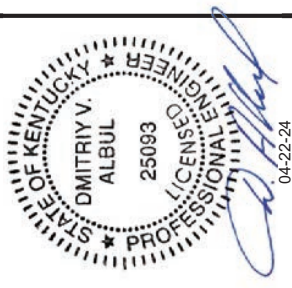
SCALE:
AS SHOWN

1 ENLARGE GRADING & EROSION CONTROL PLAN
 SCALE: 1/4"=1'-0" (FOR 11x17")
 PLOT FOR 22x34"



49030 Pontiac Trail, Suite 100
Wixom, Michigan 48393
PHONE: (248) 705-9212

REV.	DATE	DESCRIPTION
A	09/23/23	ISSUED FOR REVIEW
B	10/31/23	REVISED ISSUED FOR REVIEW
0	03/04/24	ISSUED FOR CONSTRUCTION
1	04/18/24	ISSUED FOR CONSTRUCTION



CK BLACK GNAT
5321 GREENSBURG RD,
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

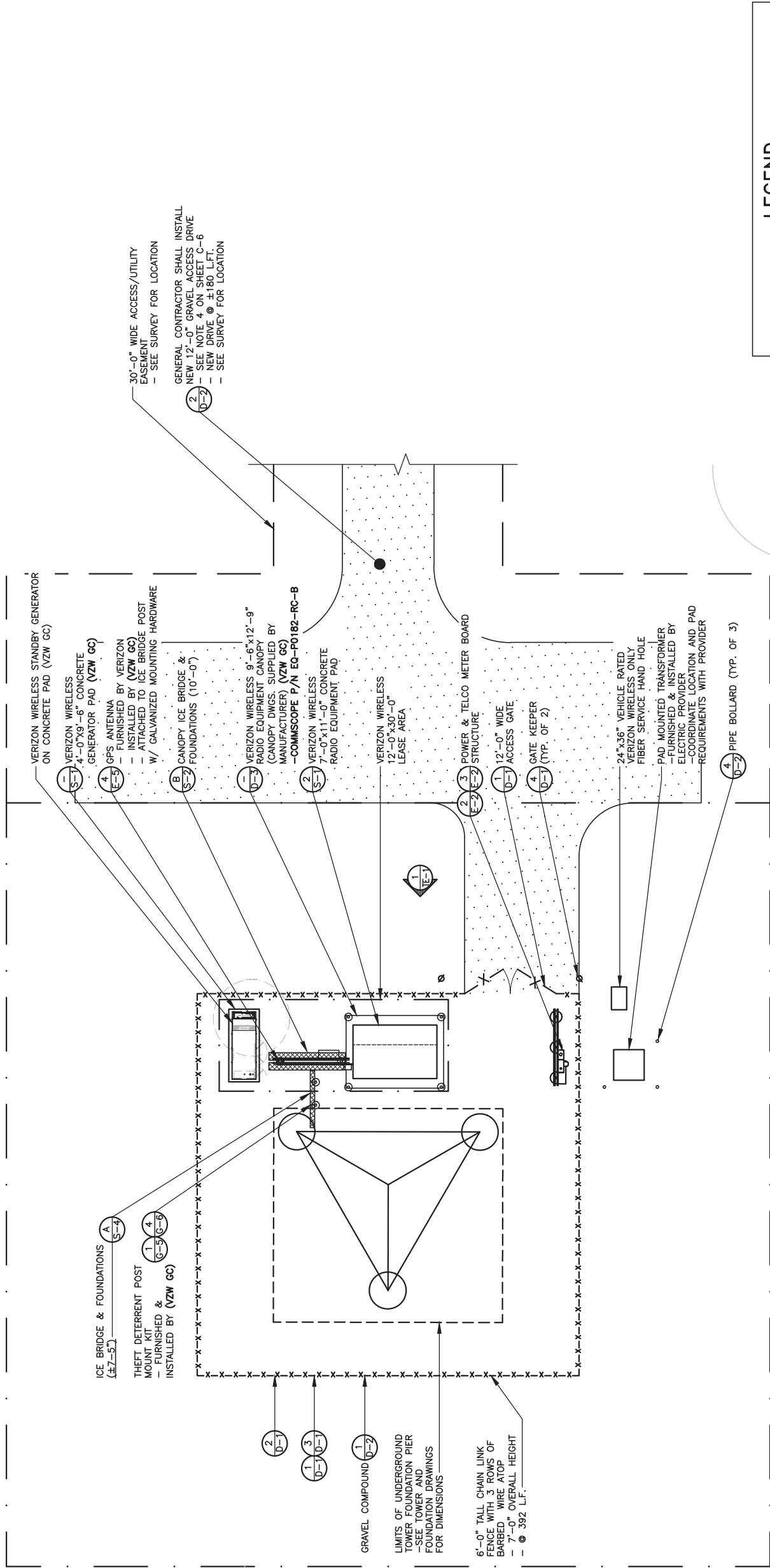
PID NUMBER: 16735940

DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
DETAILED SITE PLAN

SHEET NUMBER:
C-3

DATE: 10/16/23
REV: 3



LEGEND

- IRON PIN
- DRAINAGE LINE
- SPOT ELEVATION
- GRAVEL COMPOUND
- CENTER LINE
- NEW FENCE LINE
- NEW SILT FENCE LINE
- POWER POLEW/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 ENSURE THERE IS NO DISTURBANCE OF PROPERTY, SOIL, ETC. OUTSIDE OF THE STAKED LEASE AREA WITHOUT APPROVAL FROM VERIZON WIRELESS CONSTRUCTION MANAGER

Kentucky 811
Kentucky's 811
Call before you dig.
Call Monday thru Friday - 7 am. to 6 pm.
1-800-752-6007
PER KENTUCKY LAW, YOU MUST OBTAIN THE UNDERGROUND UTILITY LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

REV.	DATE	DESCRIPTION
A	09/23/23	ISSUED FOR REVIEW
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1	04/18/24	ISSUED FOR CONSTRUCTION



SITE INFORMATION:
CK BLACK GNAT
5321 GREENSBURG RD,
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

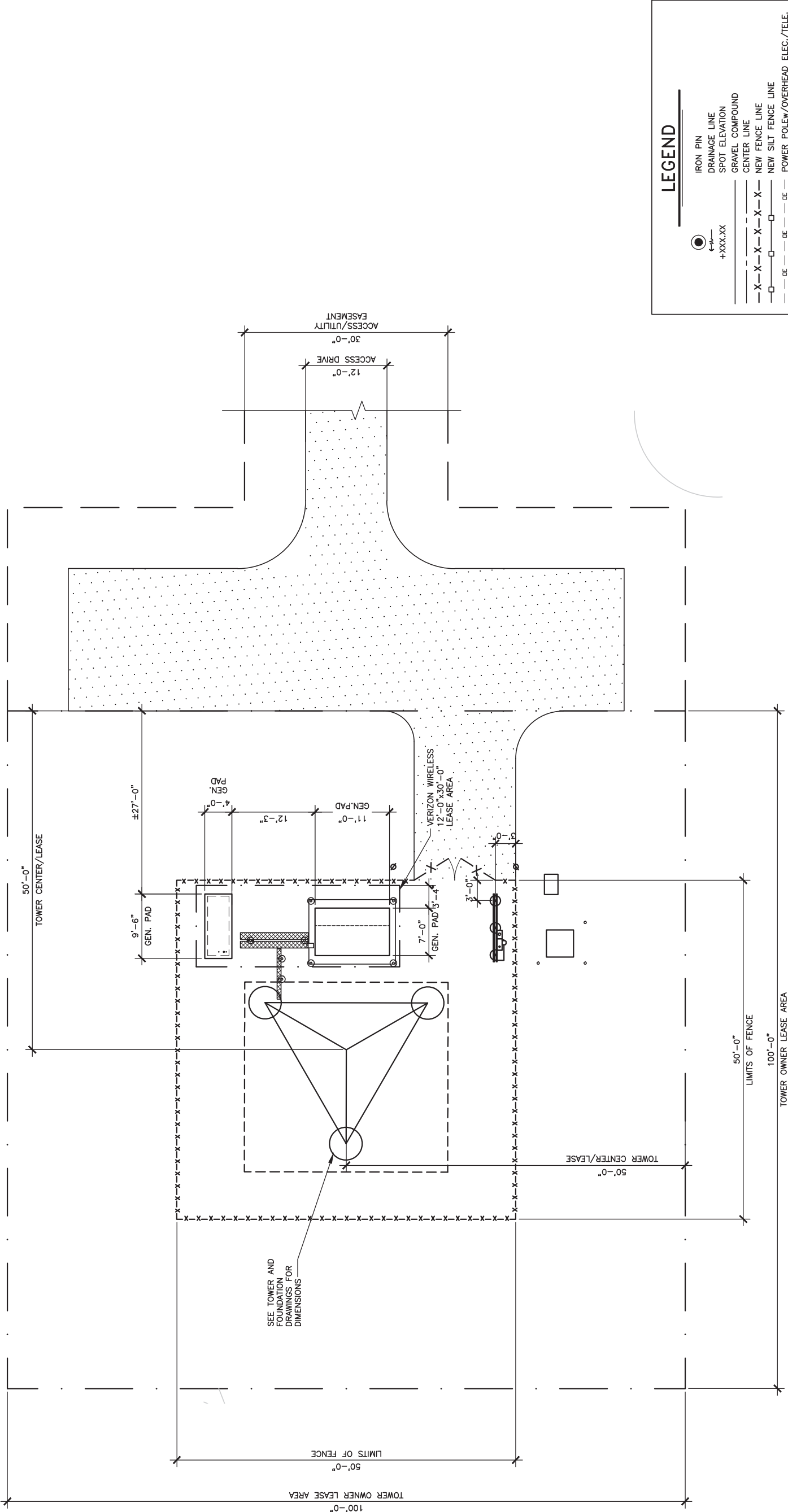
SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

PID NUMBER: 16735940
DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
DIMENSIONED SITE PLAN

SHEET NUMBER:
C-4



LEGEND

- IRON PIN
- DRAINAGE LINE
- SPOT ELEVATION
- GRAVEL COMPOUND
- CENTER LINE
- NEW FENCE LINE
- NEW SILT FENCE LINE
- POWER POLEw/OVERHEAD ELEC./TELE.
- EDGE OF NEW DRIVE
- UNDERGROUND ELECTRICAL CONDUIT
- UNDERGROUND TELEPHONE CONDUIT
- EXISTING CONTOURS
- NEW CONTOURS
- NEW LEASE AREA AND EASEMENT
- 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



Call Monday thru Friday - 7 am. to 6 pm.
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTICING THE UTILITY LOCATIONS AT LEAST 3 WORKING DAYS BEFORE COMMENCING WORK.

REV.	DATE	DESCRIPTION
A	09/23/23	ISSUED FOR REVIEW
B	10/31/23	REVISED ISSUED FOR REVIEW
0	03/04/24	ISSUED FOR CONSTRUCTION
1	04/18/24	ISSUED FOR CONSTRUCTION



SITE INFORMATION:
CK BLACK GNAT
5321 GREENSBURG RD,
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

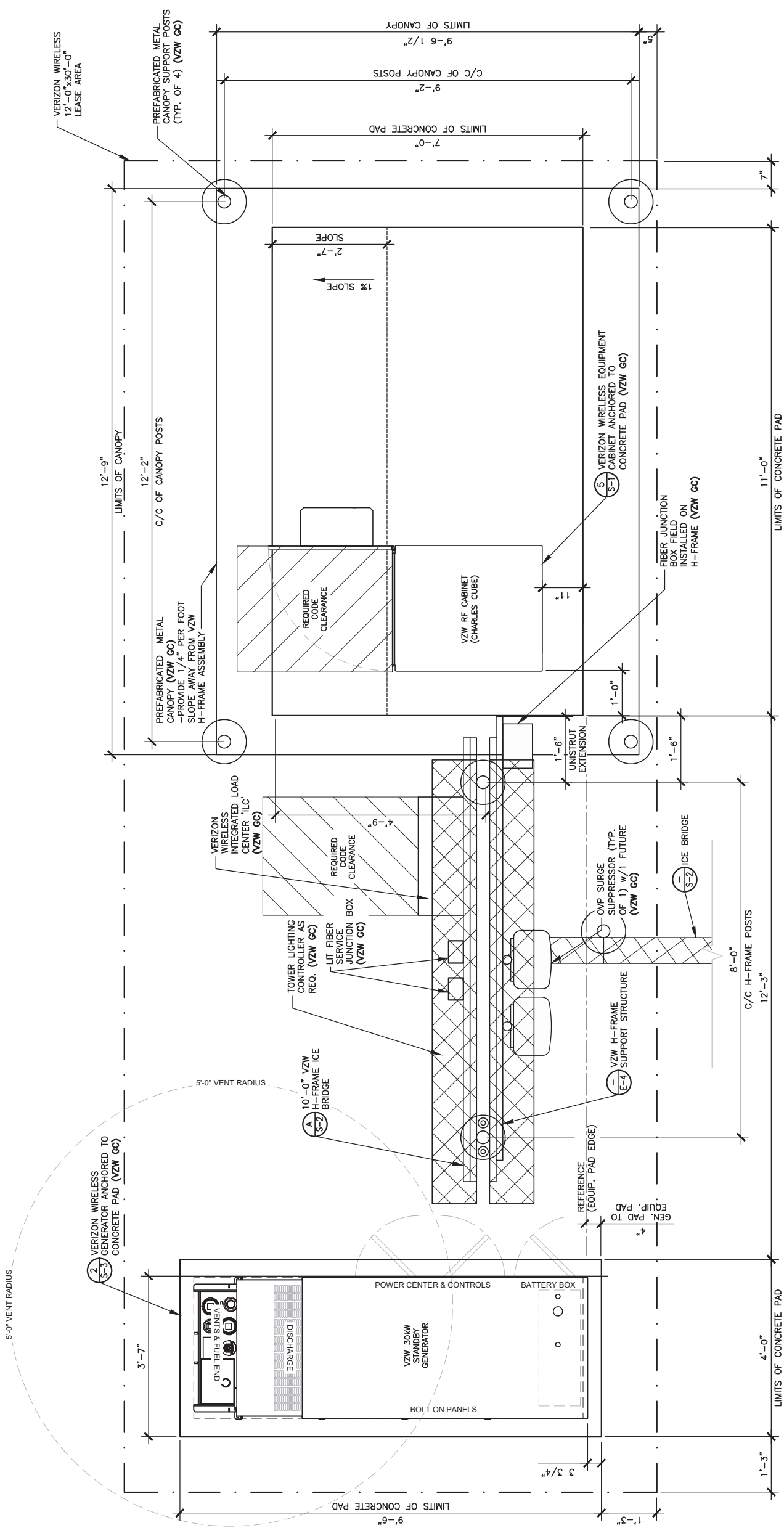
SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

PID NUMBER: 16735940
DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
**DETAILED VZW
EQUIPMENT PLAN**

SHEET NUMBER:
C-5
MK PWD & CHMPY REV 3 FINAL 10/16/23



DETAILED VZW EQUIPMENT PLAN

SCALE: 3/8" = 1'-0"



Call before you dig.
1-800-752-6007
PER HISTORY, SERVICE CALLS ARE REQUIRED TO OBTAIN THE NECESSARY PERMITS AND APPROVALS BEFORE ANY UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

*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

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 TOWER
250 SIGNAL MOUNTAIN RD, SUITE B
CHATTANOOGA, TN 37405
O: 423-531-6300

PROPERTY OWNER REPRESENTATIVE:

MILLS MOTOR SALES LLC
5321 GREENSBURG RD
CAMPBELLSVILLE, KY 42718
PHONE: 270-789-7653
E-MAIL: jmiliz_10@hotmail.com

3. ANTENNA INSTALLATION:

THE VERIZON WIRELESS CONTRACTOR (VZW GC) INSTALLING THE FRAME/PLATFORM SHALL ENSURE THAT THE PLATFORM IS ALIGNED BASED ON THE VERIZON WIRELESS RF PLAN. DURING THE 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 CABINETS, CANOPY AND GENERATOR:

THIS VERIZON WIRELESS CONTRACTOR (VZW GC) SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS FOR THE PROPER LIFTING, TRANSPORTING AND ASSEMBLY OF THE PREFABRICATED EQUIPMENT CABINETS FROM THE TRANSPORT TRUCK BED TO THE FINAL POSITION. THE EQUIPMENT CABINETS SHALL BE LIFTED INTO PLACE ON THE CONCRETE EQUIPMENT PAD. THE GENERATOR SHALL BE LIFTED INTO PLACE BY USING TWO SPREADER BAR ASSEMBLIES. EACH SPREADER BAR SHALL BE A MINIMUM 3" WIDE (RATED TO CARRY 3 TONS). THE GENERATOR WEIGHT IS 1,425# WITH TANK PEDESTAL. VERIZON WIRELESS CONTRACTOR (VZW GC) SHALL ANCHOR THE EQUIPMENT CABINETS AND GENERATOR BASE TO THE CONCRETE SLAB USING ANCHOR BOLTS. EXTREME CAUTION SHALL BE TAKEN IN THE INSTALLATION OF ALL EQUIPMENT TO AVOID CONTACT WITH EXISTING OVERHEAD UTILITY LINES.

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

6. UTILITIES:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION AND PROPER BACKFILLING OF TRENCHES AND SUPPLY CONDUIT REQUIRED FOR UNDERGROUND TELEPHONE & ELECTRICAL UTILITIES. ALL TRENCHING SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE W/ASTM D-1557.

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 CONTRACTOR SHALL THEN RUN (2) TWO 4" CONDUIT WITH PULL TAPE FROM THE METER BOARD TO THE NEW PAD MOUNTED TRANSFORMER LOCATION AND STUB UP 6" ABOVE GRADE. THE ELECTRICAL PROVIDER WILL THEN RUN UNDERGROUND CONDUIT FROM THE NEW TRANSFORMER TO THE NEW UTILITY POLE, CONTACT THE PROVIDER ###-###-#### WITH ?????? BEFORE BEGINNING CONSTRUCTION TO VERIFY LOCATION OF CONDUIT AND TRANSFORMER. CONDUITS MUST HAVE A MINIMUM DEPTH OF 36" CONTACTOR SHALL CONTACT ELECTRIC PROVIDER TO VERIFY THE LOCATION OF CONDUIT BEFORE THE NEW METER BOARD STRUCTURE. THE ELECTRIC PROVIDER SHALL SUPPLY SERVICE ENERGY TO THE NEW METER BOARD STRUCTURE. THE CONTRACTOR SHALL CONTACT SERVICE ENERGY TO SETUP 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 ----- 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 CONDUCTORS 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.

- ONE 4" SIDP-11.5 HOPE 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 24361480-PC2436-30 T22 - VERIZON LOGO OR QUATZHEUBELL POWER SYSTEMS MODEL PG24362185784 ASSY T22 SW OR 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.
 - BY THE GENERAL USE FIBER CONDUIT HANDHOLE SHALL BE A MODEL AS APPROVED BY THE CONSTRUCTION MANAGER.
- CONTRACTOR SHALL PLACE ADDITIONAL HANDHOLES ALONG ROUTE AS NECESSARY, SO THAT SPACING BETWEEN HANDHOLES IS NO GREATER THAN 500 FEET.
- CONTRACTOR SHALL PLACE (1) COPPERHEAD INDUSTRIES ORANGE TRACER WIRE (PART NO. 1230N-HS) OR APPROVED EQUIVALENT ABOVE PROPOSED FIBER CONDUIT(S)
- ONE 4" SIDP-11.5 HOPE 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: FIBER OPTIC SERVICE PROVIDED BY:

TAYLOR COUNTY RECC 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, TOPO LINES AND ELEVATIONS INDICATED.

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

2. COMPOUND SURFACE SHALL BE COMPACTED TO A 95% MAXIMUM DRY DENSITY TO ALLOW PROPER STERILIZATION 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.

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

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

B. 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.

C. STOCKPILING MATERIAL (TOP SOIL OR FILL DIRT) - SHOULD BE PLACED IN AN AREA THAT CAN BE CONTROLLED 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.

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

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

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

F. GEOTEXTILE FABRIC - AFTER PLACEMENT AND COMPACTION OF FILL WITHIN THE WORK AREA AND BEFORE THE PLACEMENT OF LIMESTONE AGGREGATE. (SEE SITE AREA SURFACING DETAIL ON D-1). THE ENTIRE DISTURBED WORK AREA SHALL BE COVERED WITH A GEOTEXTILE FABRIC. THIS FABRIC SHALL BE "TENCATE (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 THEMSELVES AND THEIR 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 CABLE REELS, 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.

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 FAA 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 1-800-382-5644 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 (A&E FIRM) IN ORDER TO RESOLVE ANY CONFLICTS.

11. CONTRACTOR'S 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 SEEDED 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 A&E FIRM BY SURVEYING FIRM. A&E FIRM 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. DO NOT SIGN SAME TO THE ENGINEER WITHIN 15 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 DETAILS, THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL VERIFY ALL BIDS 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 BE 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 TALKGATE 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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B	10/31/23	REVISED ISSUED FOR REVIEW
0	03/04/24	ISSUED FOR CONSTRUCTION
1	04/18/24	ISSUED FOR CONSTRUCTION



SITE INFORMATION:
CK BLACK GNAT
5321 GREENSBURG RD,
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

PID NUMBER: 16735940

DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
**GENERAL SITE
CONSTRUCTION
NOTES**

SHEET NUMBER:



REV.	DATE	DESCRIPTION
A	09/23/23	ISSUED FOR REVIEW
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C	03/04/24	ISSUED FOR CONSTRUCTION
D	04/18/24	ISSUED FOR CONSTRUCTION



CK BLACK GNAT
5321 GREENSBURG RD,
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

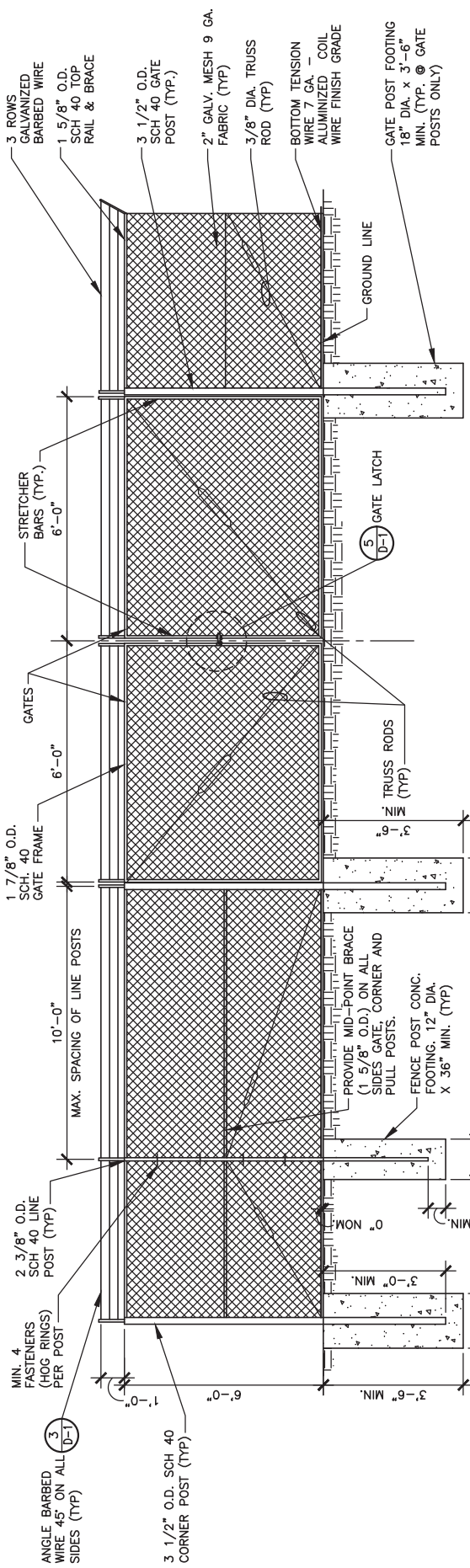
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DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
FENCE DETAILS AND NOTES

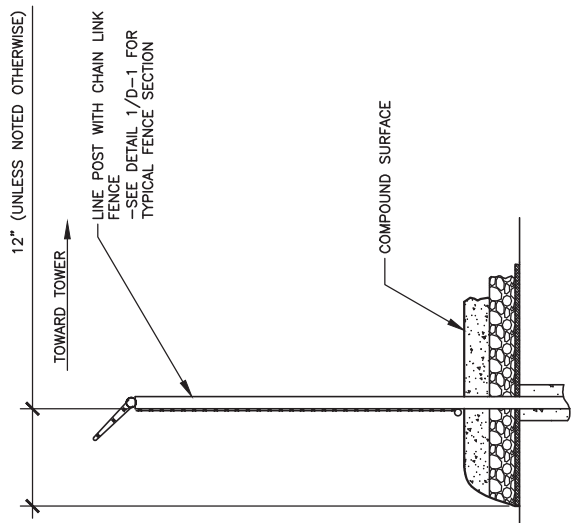
SHEET NUMBER:
D-1
MK, PFD & CHOPRY REV. 3 FINAL 10/16/23

CHAIN LINK FENCING NOTES

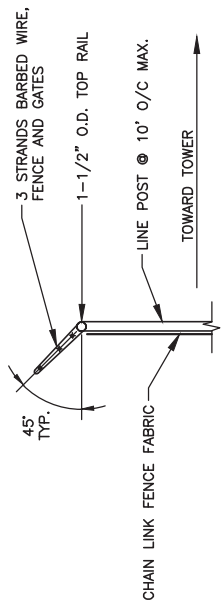
1. ALL FENCE AND FABRIC SHALL BE HOT DIPPED GALVANIZED WITH A MINIMUM OF 2 OZ. PER SQUARE FOOT, 9 GAUGE WIRE (MIN. BREAKING STRENGTH OF 1,290 LBS) WITH 2" MESH. ALL BARBED WIRE SHALL BE ALUMINUM OR COATED PER NOTE #4.
2. BOTTOM EDGE OF FENCE FABRIC SHALL EXTEND TO FINISHED GRADE.
3. SITE FENCE SHALL BE 6'-0" FABRIC W/ 3 STRAND BARBED WIRE FOR TOTAL HEIGHT OF 7'-0".
4. BARBED WIRE SHALL MEET ASTM A 121, CLASS 3 GALV. OR ASTM A 565, TYPE 1, CLASS 2 COATING (NOT LESS THAN 0.8 OZ. PER SQ. FT.) AND SHALL BE THREE STRAND 12.5 GAGE W/4 POINT BARS AT 5" O/C.
5. 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.)
6. PROVIDE A DIAGONAL BRACE ROD AND TURN BUCKLE ON BOTH GATE LEAFS.
7. 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.
8. CONTRACTOR SHALL ENSURE ALL POSTS ARE PLUMB.
9. ALL FENCE SHALL BE FABRICATED AND INSTALLED PER ASTM F2611-15, ASTM F567-14c AND CHAIN LINK FENCE MANUFACTURERS INSTITUTE CLFMI-PM 2445.
10. CONTRACTOR SHALL FURNISH AND INSTALL ONE (1) MASTER LOCK LONG SHANK #175LH COMBINATION PADLOCK. COMBINATION TO BE SET AT 7011.



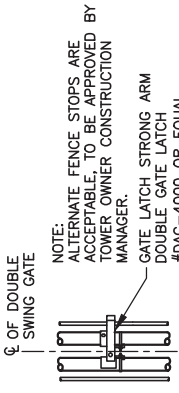
CHAIN LINK FENCE & POST DETAIL 1
SCALE: N.T.S.



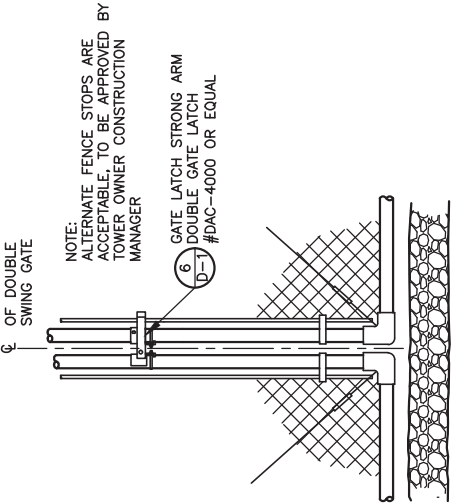
SITE AREA SURFACING 2
SCALE: N.T.S.



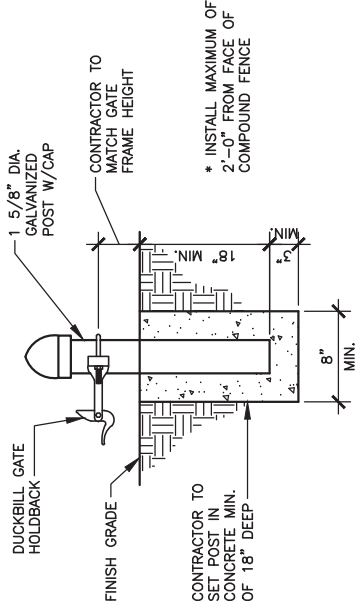
TYPICAL BARBED WIRE DETAIL 3
SCALE: N.T.S.



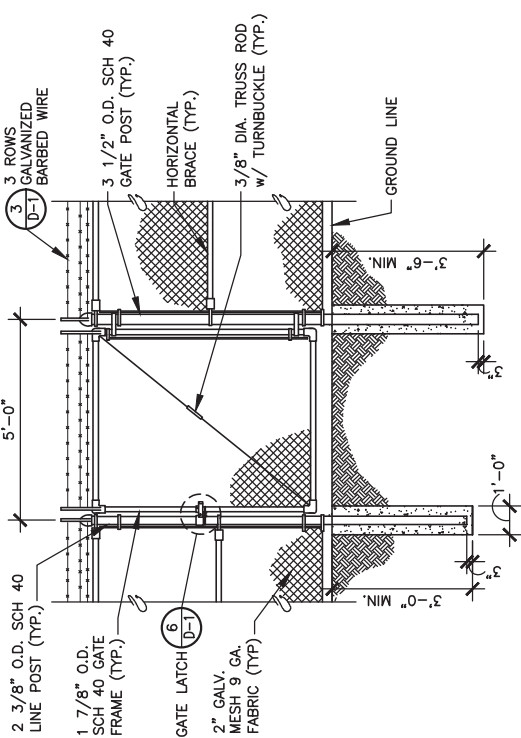
GATE LATCH DETAIL 6
SCALE: N.T.S.



GATE LATCH DETAIL 5
SCALE: N.T.S.



GATE KEEPER DETAIL 4
SCALE: N.T.S.



MAN GATE DETAIL 7
SCALE: N.T.S.

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CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

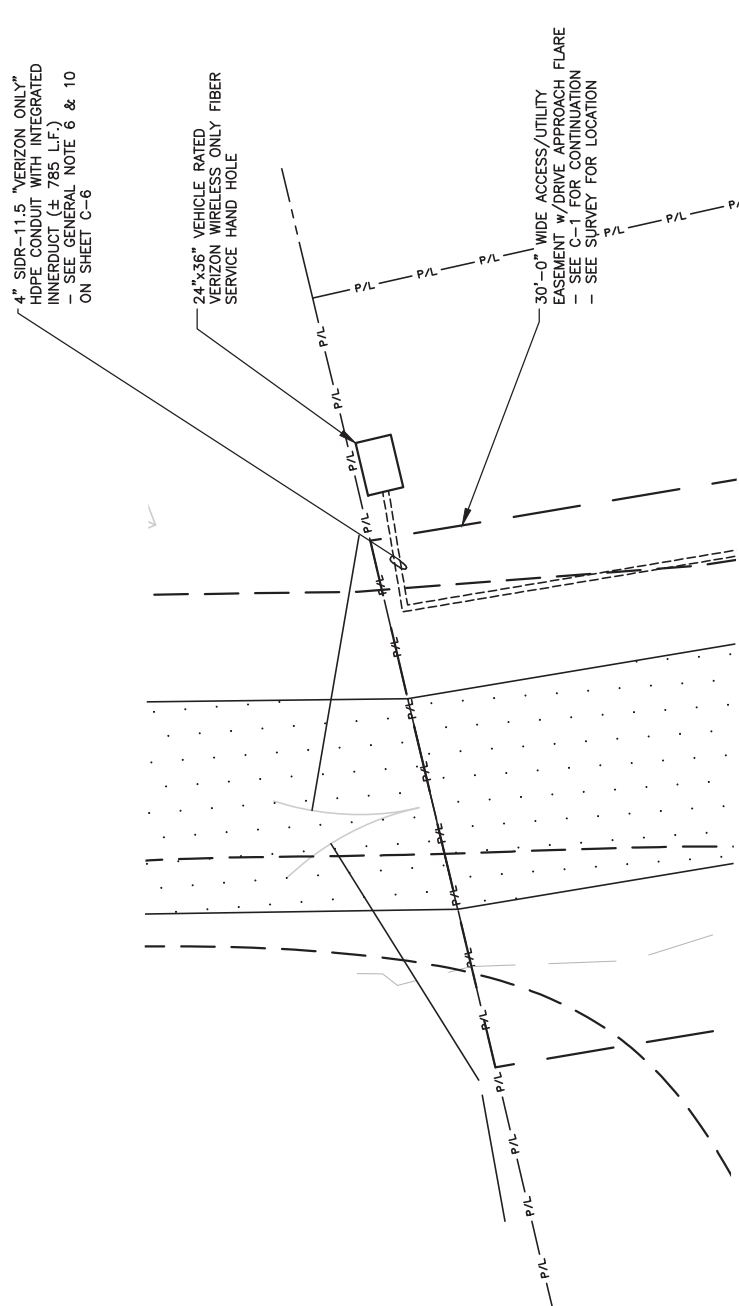
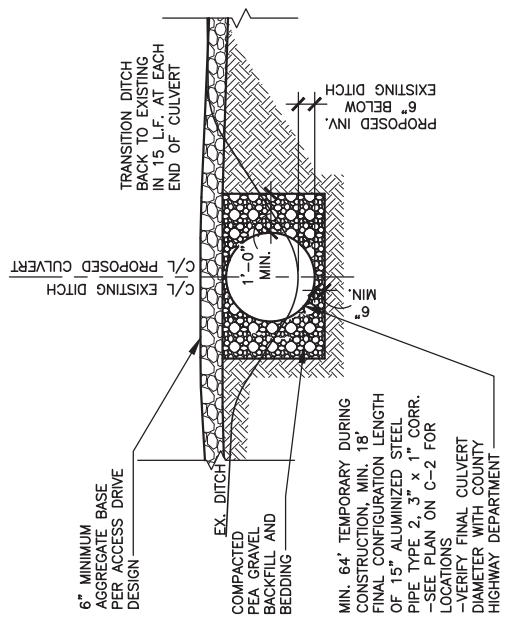
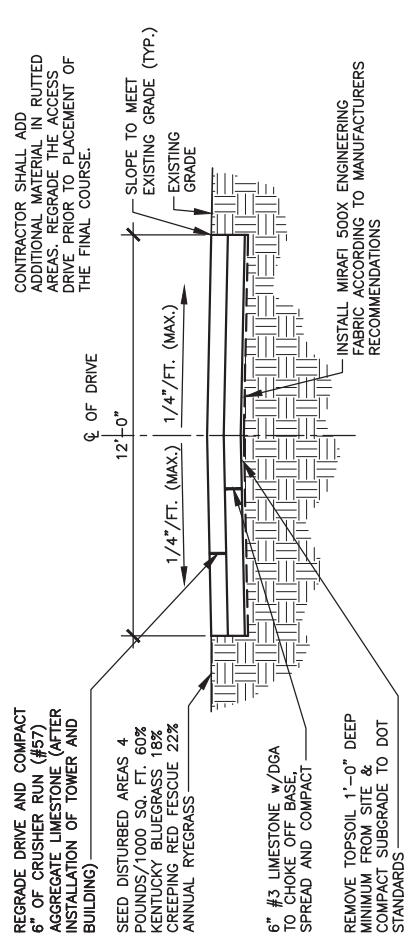
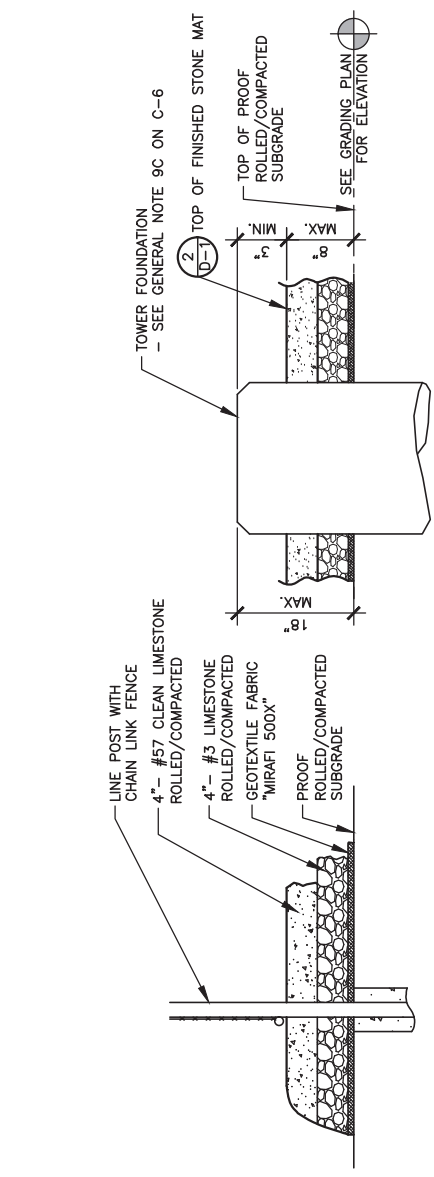
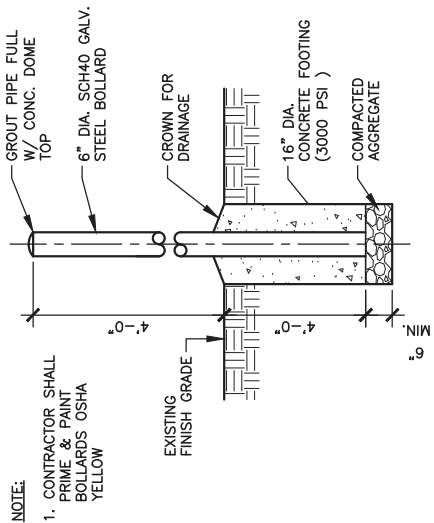
SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

PID NUMBER: 16735940
DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
SITE DETAILS

SHEET NUMBER:
D-2



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

REGRADE DRIVE AND COMPACT 6" OF CRUSHER RUN (#57) AGGREGATE LIMESTONE (AFTER INSTALLATION OF TOWER AND BUILDING)

SEED DISTURBED AREAS 4 POUNDS/1000 SQ. FT. 60% KENTUCKY BLUEGRASS 18% CREEPING RED FESCUE 22% ANNUAL RYEGRASS

6" #3 LIMESTONE w/DGA TO CHOKE OFF BASE. SPREAD AND COMPACT

REMOVE TOPSOIL 1'-0" DEEP MINIMUM FROM SITE & COMPACT SUBGRADE TO DOT STANDARDS

CONTRACTOR SHALL ADD ADDITIONAL MATERIAL IN RUTTED AREAS. REGRADE THE ACCESS DRIVE PRIOR TO PLACEMENT OF THE FINAL COURSE.

SLOPE TO MEET EXISTING GRADE (TYP.)

EXISTING GRADE

INSTALL MIRAFI 500X ENGINEERING FABRIC ACCORDING TO MANUFACTURERS RECOMMENDATIONS

6" MINIMUM AGGREGATE BASE PER ACCESS DRIVE DESIGN

EX. DITCH

MIN. 64' TEMPORARY DURING CONSTRUCTION, MIN. 18' FINAL CONFIGURATION LENGTH OF 15" ALUMINIZED STEEL PIPE TYPE 2, 3" x 1" CORR. -SEE PLAN ON C-2 FOR LOCATIONS -VERIFY FINAL CULVERT DIAMETER WITH COUNTY HIGHWAY DEPARTMENT

TRANSITION DITCH BACK TO EXISTING IN 15 L.F. AT EACH END OF CULVERT

PROPOSED INV. 6" BELOW EXISTING INV.



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

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CK BLACK GNAT
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CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

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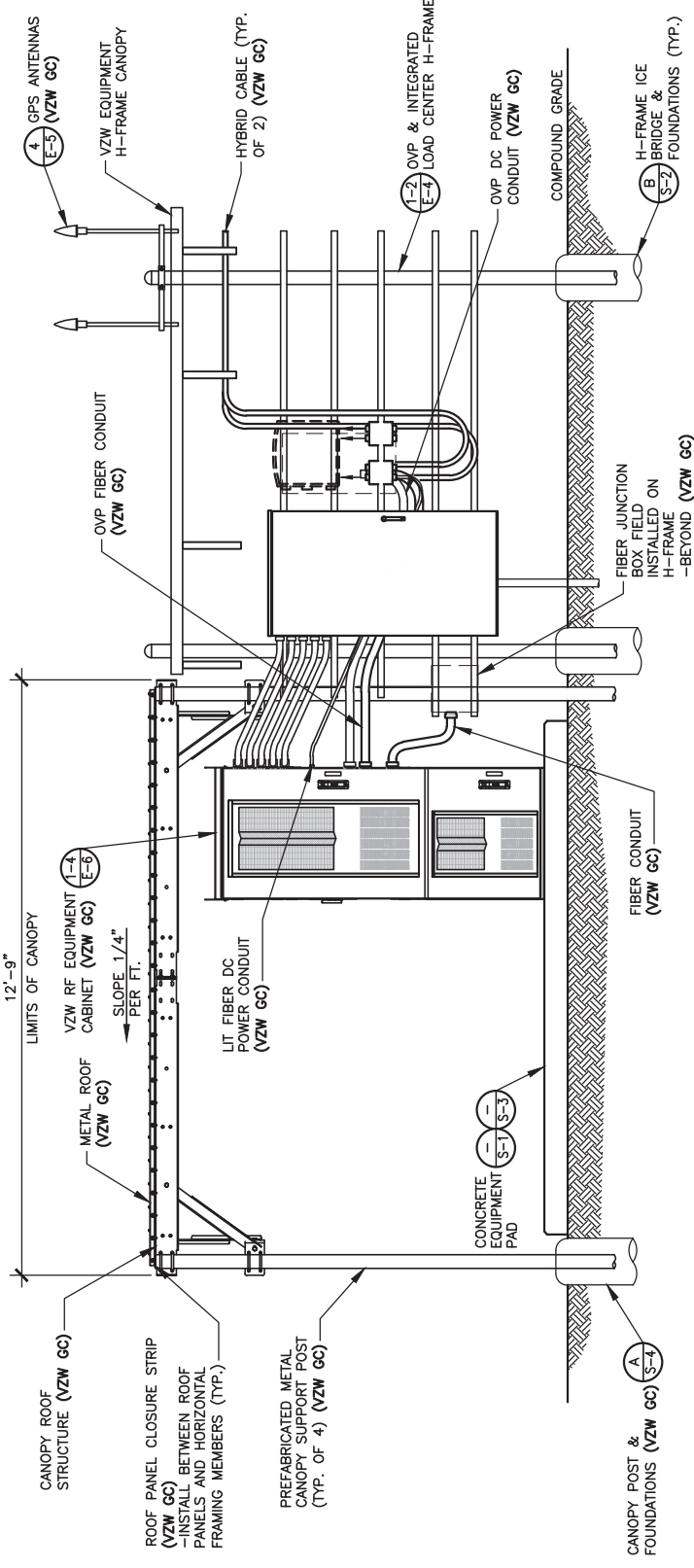
SITE NAME:
CK BLACK GNAT

PID NUMBER: 16735940
DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
EQUIPMENT PAD & CANOPY ELEVATIONS

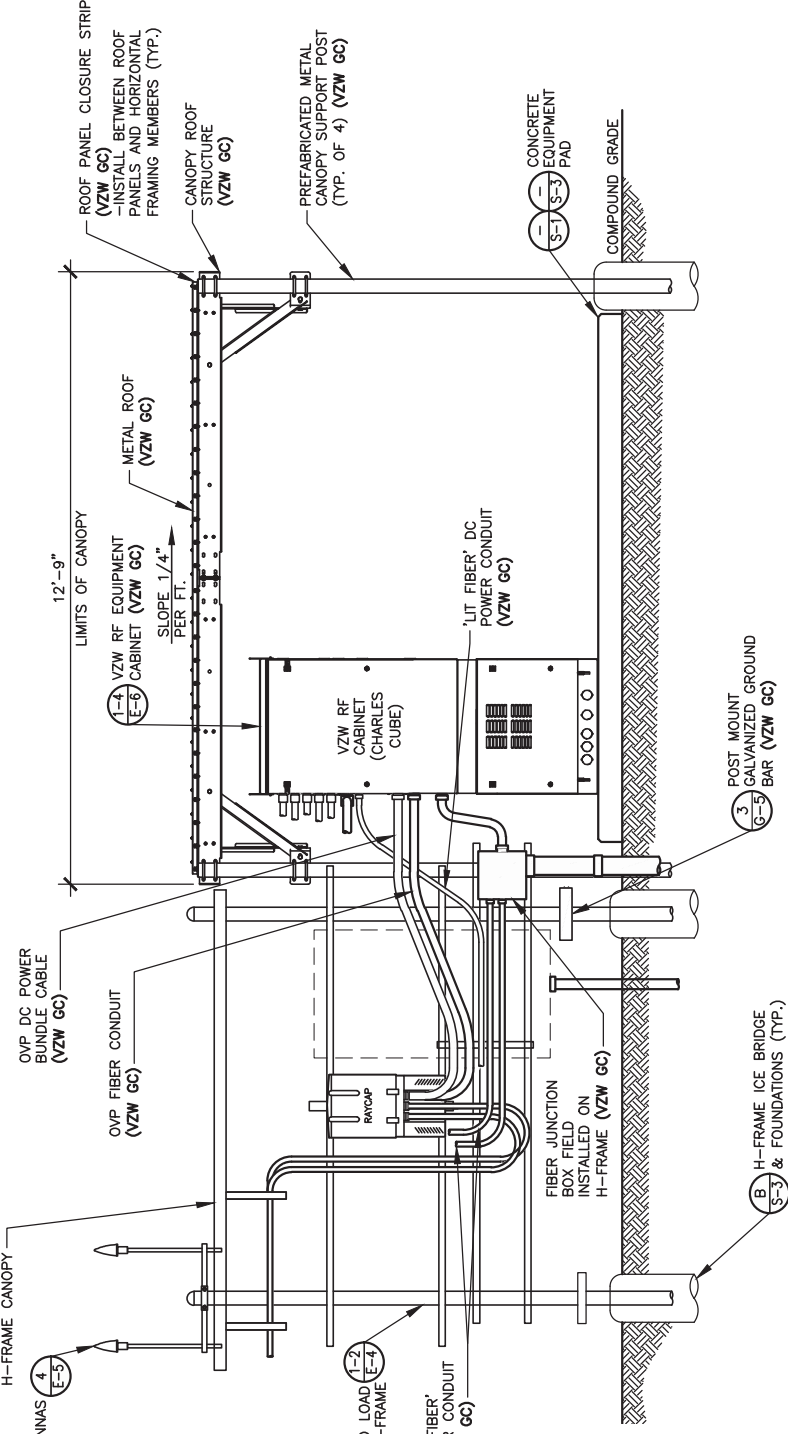
SHEET NUMBER:
D-3
MK PWD & CANOPY REV.3 FINAL 10/16/23

NOTE:
CANOPY ROOF PANELS PROFILE R/PBR. PROVIDE 1/2" DENSITY POLYETHYLENE FOAM PANEL CLOSURE STRIP TO MATCH PROFILE. AS MANUFACTURED BY: SEAL-LITE BUILDING FASTENERS. ST CLOSURE STRIPS OR EQUAL (VERIFY PROFILE WITH ROOF PANELS SUPPLIED WITH CANOPY)

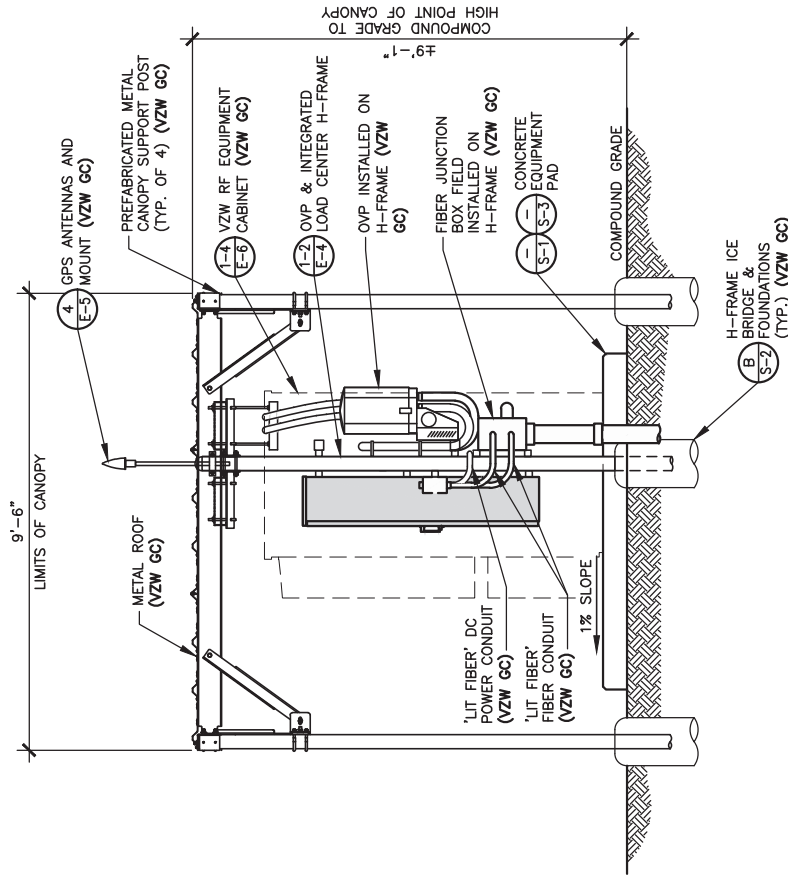


GENERATOR ELEVATION
SCALE: 1/4" = 1'-0"

NOTE:
VERIZON WIRELESS 9'-6"x12'-9" RADIO EQUIPMENT CANOPY (CANOPY DWGS. SUPPLIED BY MANUFACTURER) (VZW GC) -COMMSCOPE P/N EQ-P0182-RC-B



FRONT ELEVATION
SCALE: 1/4" = 1'-0"



RIGHT ELEVATION
SCALE: 1/4" = 1'-0"

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)	INSIDE FRONT ACCESS DOOR OF EACH CABINET WITH BATTERIES
C4 • COMBINATION WARNING (SEE NOTE 2)	
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.

C1

C2

C3

C4

C5



FRONT

REAR

FIGURE 1 - EQUIPMENT CABINET SIGNAGE

SIGNAGE FOR EACH GENERATOR FUEL TYPE:

DIESEL GENERATOR

REQUIRED SIGNS:	LOCATIONS:
D1 • "DANGER DIESEL FUEL"	INSTALL ON GENERATOR (SEE FIGURE 6)
D2 • HAZARD DIAMOND	INSTALL ON FUEL TANK
D3 • NOTICE SIGN	
D4 • FUEL TANK CAPACITY	

*SIGNS D1 AND D2 MAY BE COMBINED TO A SINGLE SIGN

D1

D2

D3

D4



FIGURE 6 - DIESEL GENERATOR SIGNAGE



FIGURE 5 - EME SIGN



FIGURE 3 - TOWER A.S.R. SIGN



FIGURE 4 - FENCE COMPOUND A.S.R. SIGN



FIGURE 6 - DRIVEWAY A.S.R. SIGN

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)



S1



E1



E2



E3



E4



B1

FIGURE 9 - TYPICAL E.M.E. SIGNAGE

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CK BLACK GNAT
 5321 GREENSBURG RD,
 CAMPBELLSVILLE, KY 42718
 TAYLOR COUNTY

SITE NUMBER:
 725009

SITE NAME:
 CK BLACK GNAT

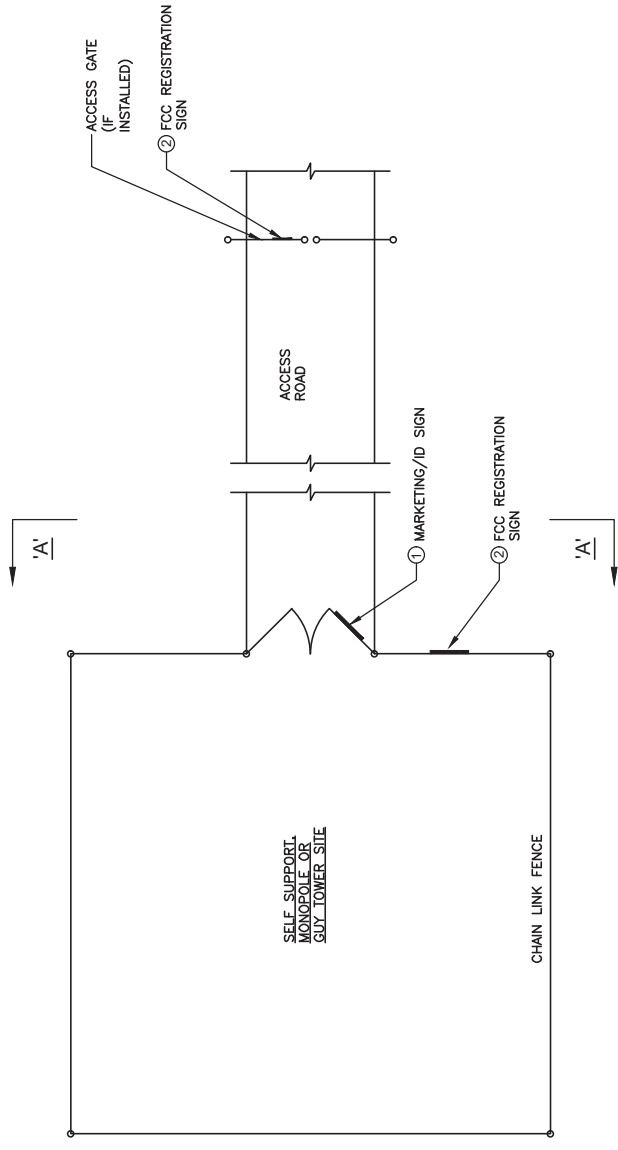
PID NUMBER: 16735940
DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
 VERIZON WIRELESS
 SIGNAGE (REFERENCE
 ONLY)

SHEET NUMBER:
 D-4
 MK PWD & CHMPY REV 3 FINAL 10/16/23

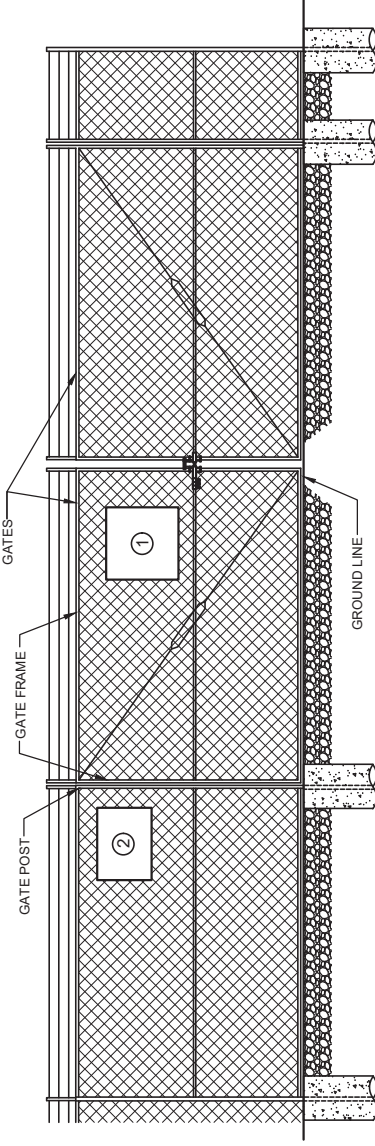
NOTES:

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 & DEMARCATION POLICY.



TYPICAL SITE FENCE SIGNAGE PLAN

SCALE: N. T. S.



ELEVATION "A-A"

SCALE: N. T. S.

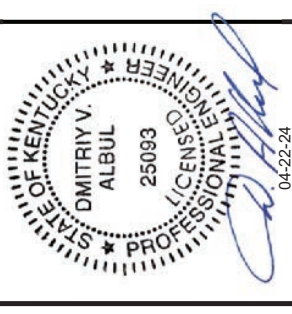
Southernlowers BTS

250 SIGNAL MOUNTAIN RD, SUITE B
CHATTANOOGA, TN 37405
C: 423-531-8300



49030 Pontiac Trail, Suite 100
Wixom, Michigan 48393
PHONE: (248) 705-9212

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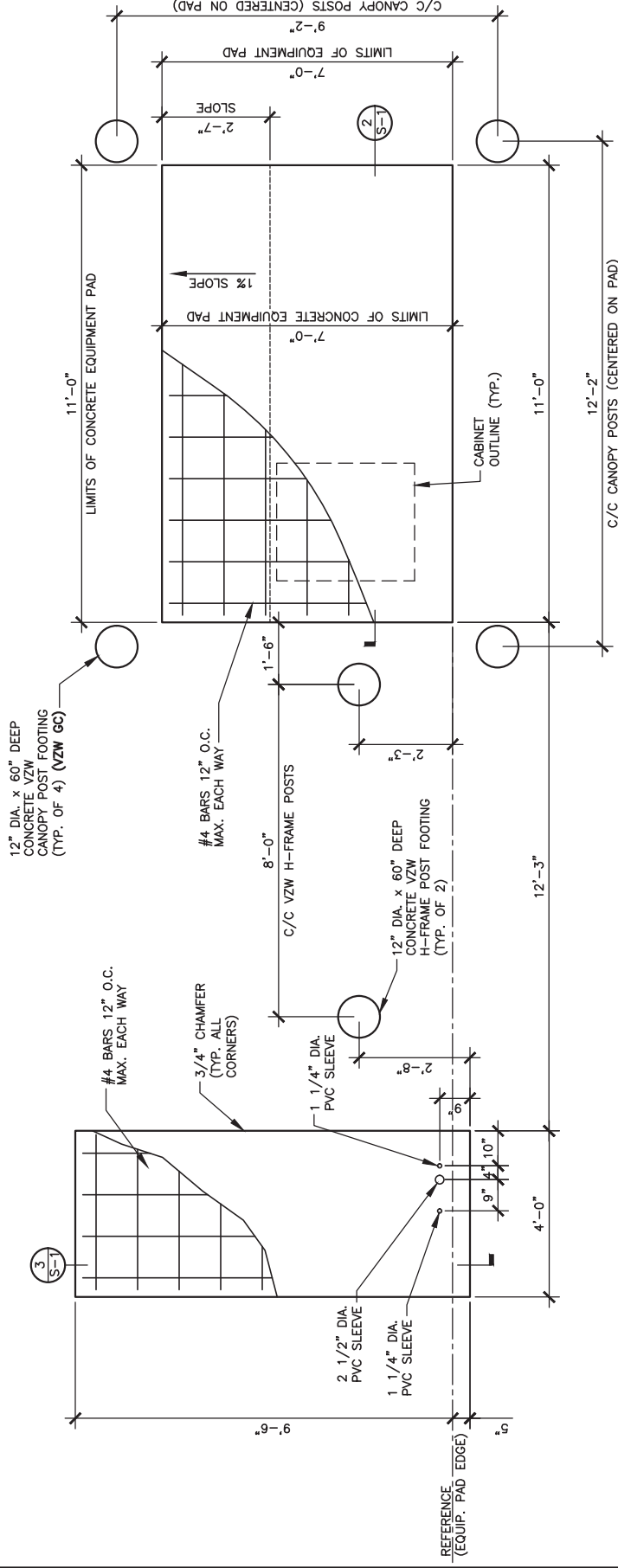
**TOWER OWNER SITE
FENCE SIGNAGE
(REFERENCE ONLY)**

SHEET NUMBER:

D-5

MR. PNO & COMPANY REV. 3 FINAL 10/16/23

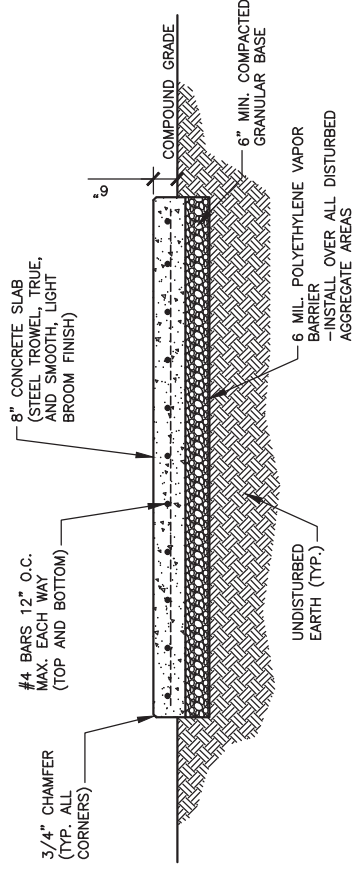
NOTE:
ALL GENERATOR CONDUITS SHALL BE INSTALLED AND CAPPED WEATHERTIGHT FOR FUTURE GENERATOR INSTALLATION IF REQUIRED



EQUIPMENT AND GENERATOR PAD FOUNDATIONS PLAN

SCALE: 1/4" = 1'-0"

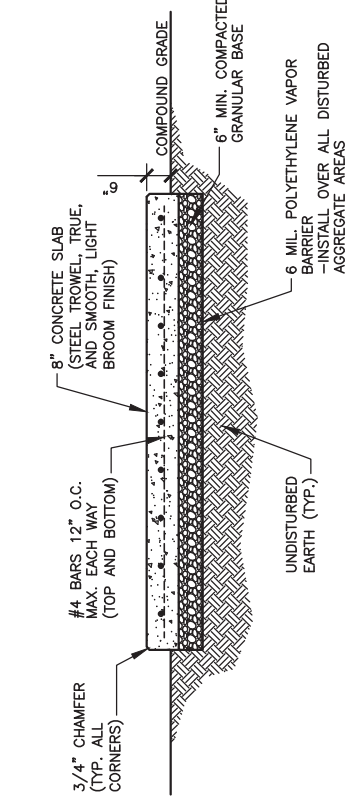
1
S-1



EQUIPMENT PAD FOUNDATION SECTION

SCALE: 1/4" = 1'-0"

2
S-1



GENERATOR PAD FOUNDATION SECTION

SCALE: 1/4" = 1'-0"

3
S-1

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 XYZ ENGINEERING, INC., DATED MONTH DAY, YEAR.

ALLOWABLE BEARING CAPACITY BLDG. FOOTINGS ***** 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 SURFACE 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 TRUCK OR FOUR (4) TOTAL FOR BUILDING FOUNDATION AND THE CONCRETE MUST MEET A 4" SLUMP. THE GENERAL CONTRACTOR SHALL PROVIDE THREE (3) COPIES OF TESTING RESULTS TO VERIZON 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 F_c = 4000 PSI @ 28 DAYS

MATERIALS - REINFORCING ASTM A615, GRADE 60
- ANCHOR BOLTS ASTM F1554 A36

REINFORCING COVERS - FOOTINGS 2"
BOTTOM/SIDES 3"

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

BAR SIZE #4 ANCHORAGE 12" SPLICE (OTHER) 25" ANCHORAGE (TOP) 25" SPLICE (TOP) 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 1-800-752-6007 OR 811

ADDITIONAL CONCRETE NOTES:

- ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI*96, "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.

REV.	DATE	DESCRIPTION
A	09/23/23	ISSUED FOR REVIEW
B	10/31/23	REVISED ISSUED FOR REVIEW
C	03/04/24	ISSUED FOR CONSTRUCTION
D	04/18/24	ISSUED FOR CONSTRUCTION



SITE INFORMATION:

CK BLACK GNAT

5321 GREENSBURG RD,
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

SITE NUMBER:

725009

SITE NAME:

CK BLACK GNAT

PID NUMBER: 16735940

DRAWN BY: RC

CHECKED BY: PL

DATE: 09.23.23

SHEET TITLE:

EQUIPMENT PAD FOUNDATION PLAN, DETAILS AND STRUCTURAL NOTES

SHEET NUMBER:

S-1

MR. PNO & COMPANY REV. 3 FINAL 10/16/23



Call Monday thru Friday - 7 a.m. to 6 p.m.
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UTILITY LOCATIONS CONCERNED AT LEAST 48 WORKING DAYS BEFORE COMMENCING WORK.

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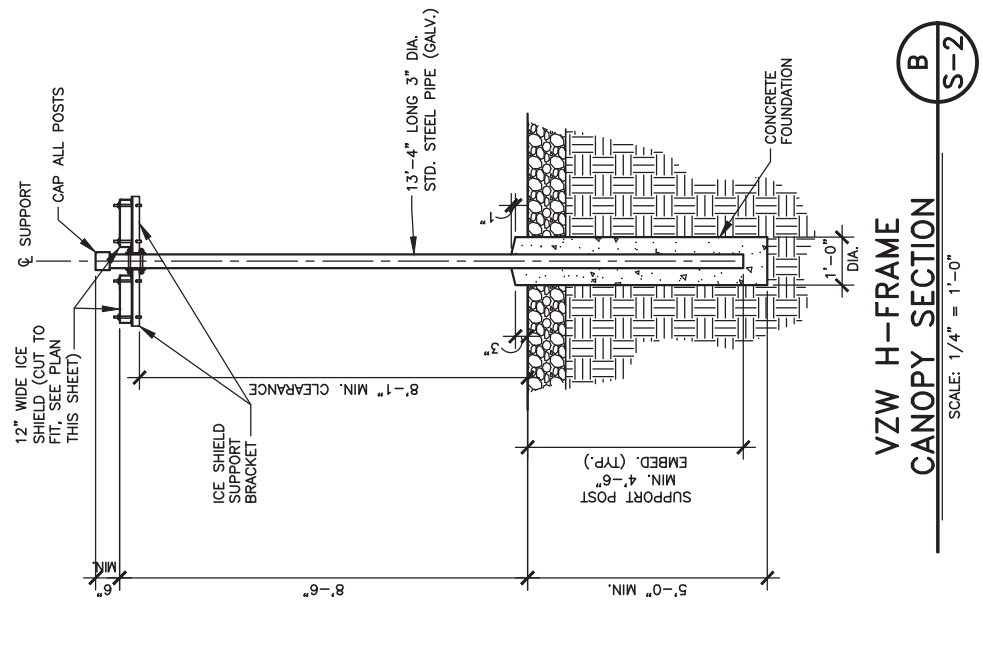
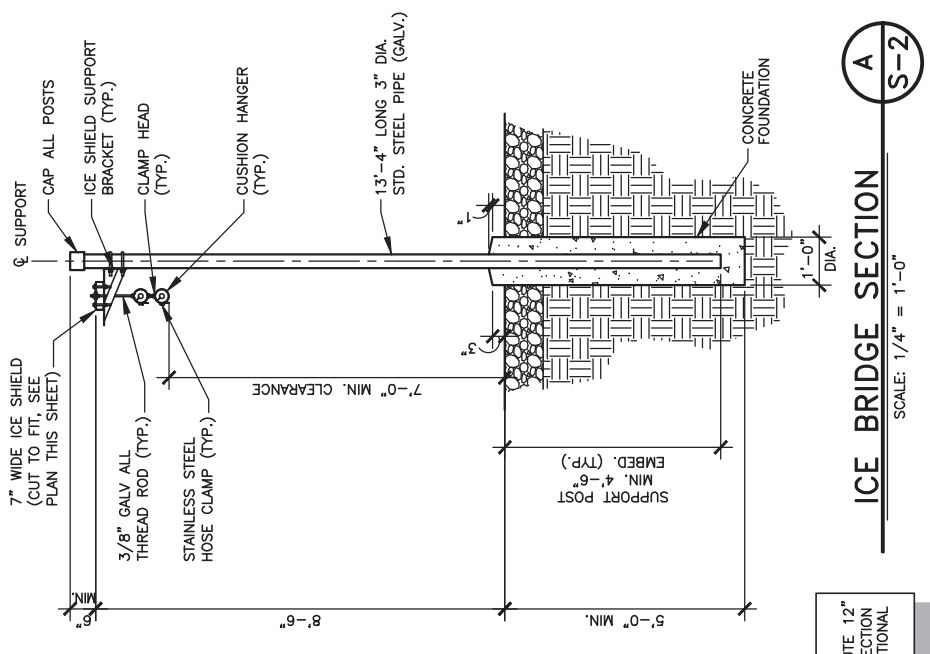
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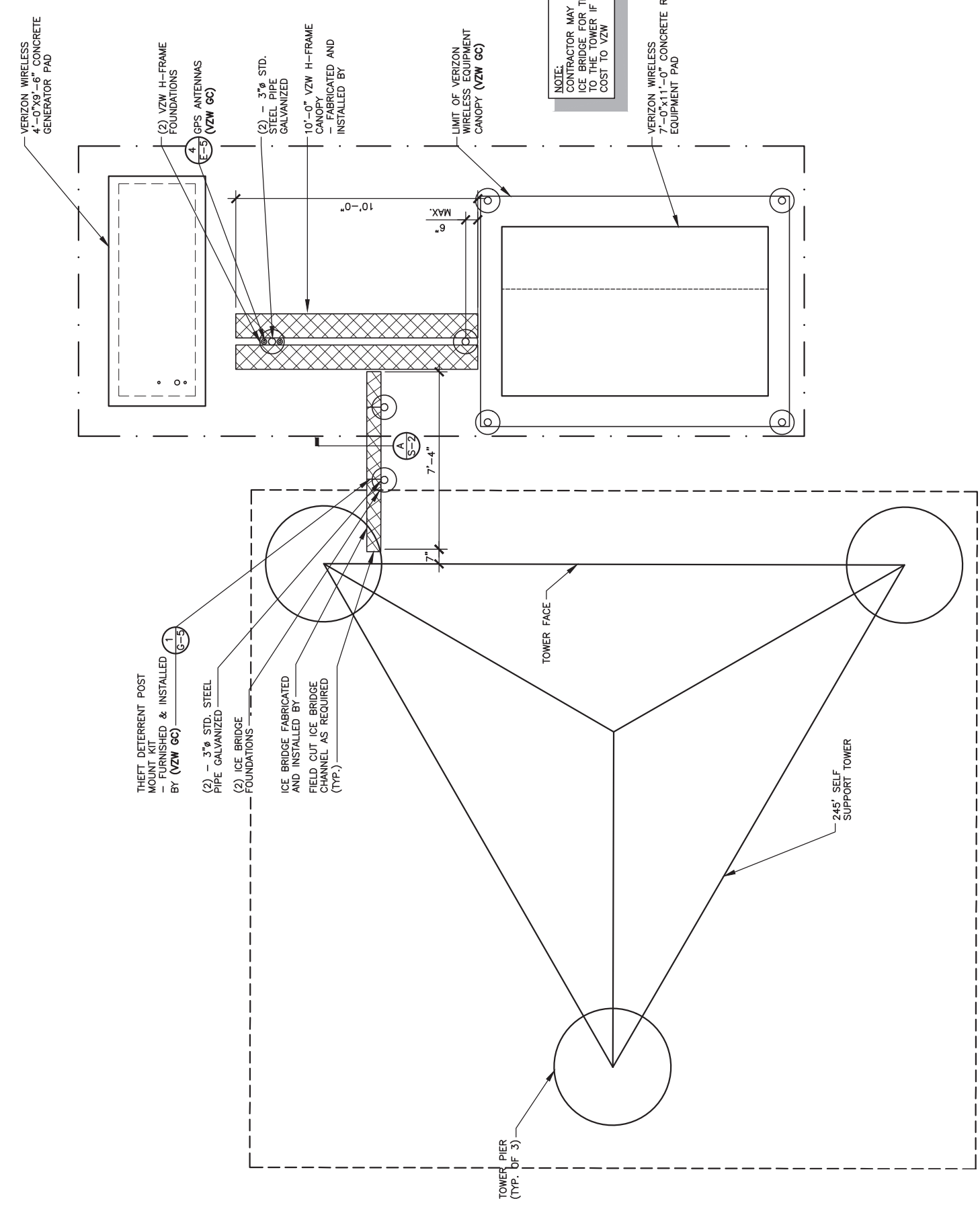
SHEET TITLE:
ICE BRIDGE PLAN AND DETAILS

SHEET NUMBER:
S-2

MR. PNO & COMPANY REV. 3 FINAL 10/16/23

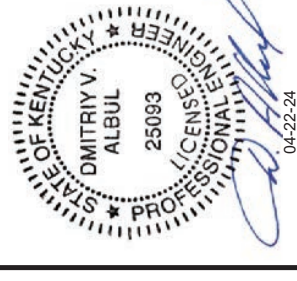


NOTE:
CONTRACTOR MAY SUBSTITUTE 12" ICE BRIDGE FOR THE 7" SECTION TO THE TOWER IF NO ADDITIONAL COST TO VZW



Call before you dig.
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE PUBLIC INTEREST TO CONDUCT ANY UNDERGROUND UTILITY SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

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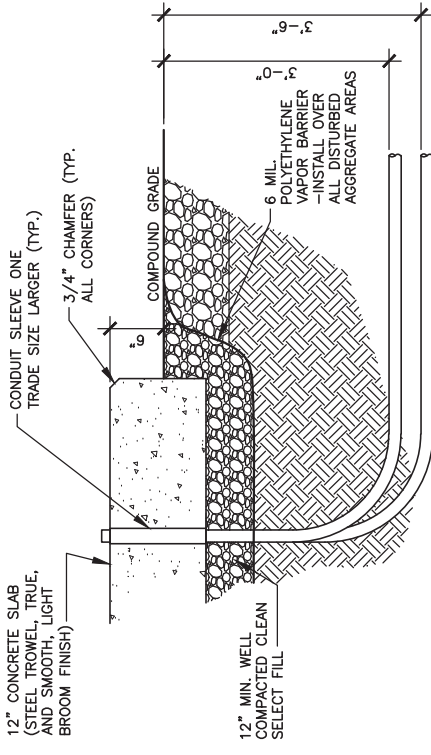
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DATE: 09.23.23

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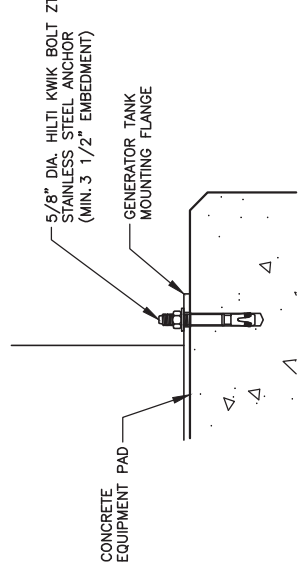
FOUNDATION PLAN AND DETAILS

SHEET NUMBER:

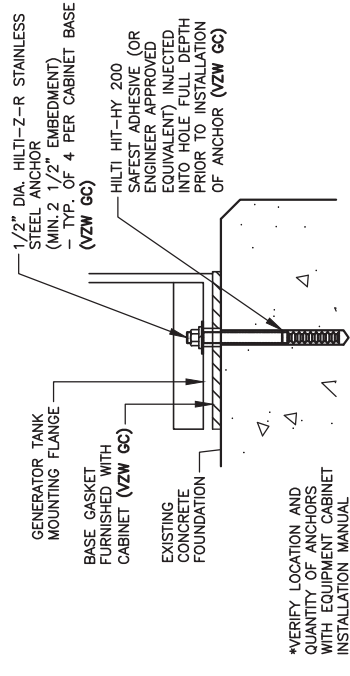
S-3
MK, PWD & CHOPRY REV 3 FINAL 10/16/23



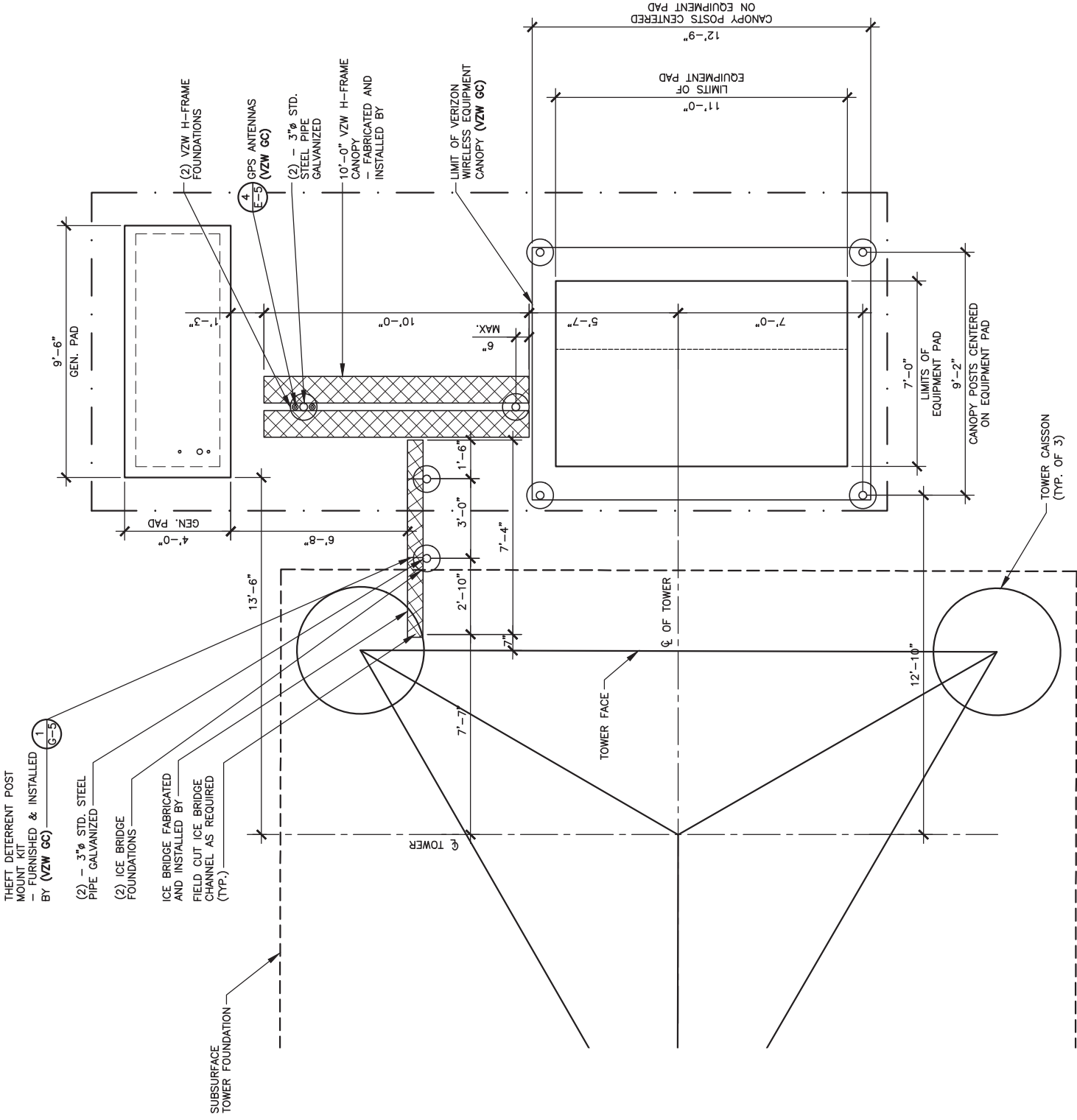
CONDUIT PENETRATION DETAIL



GENERATOR ANCHOR DETAIL



EQUIPMENT CABINET MOUNTING DETAIL



FOUNDATION PLAN



Call before you dig.
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO CONDUCT ANY UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



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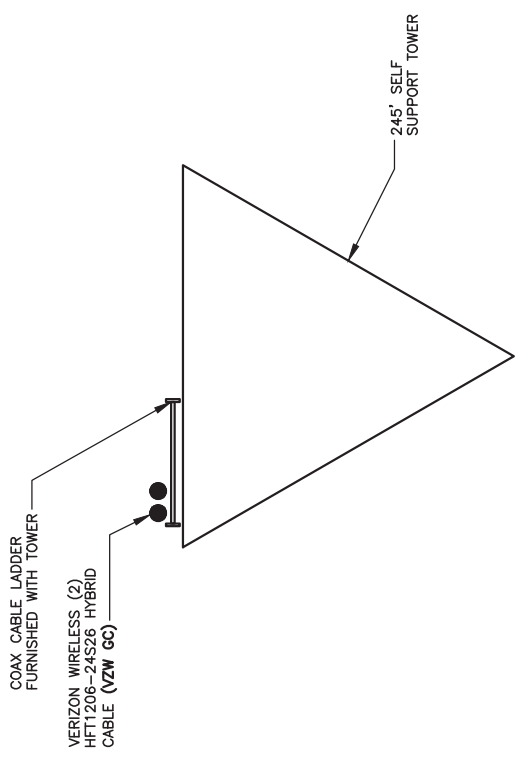
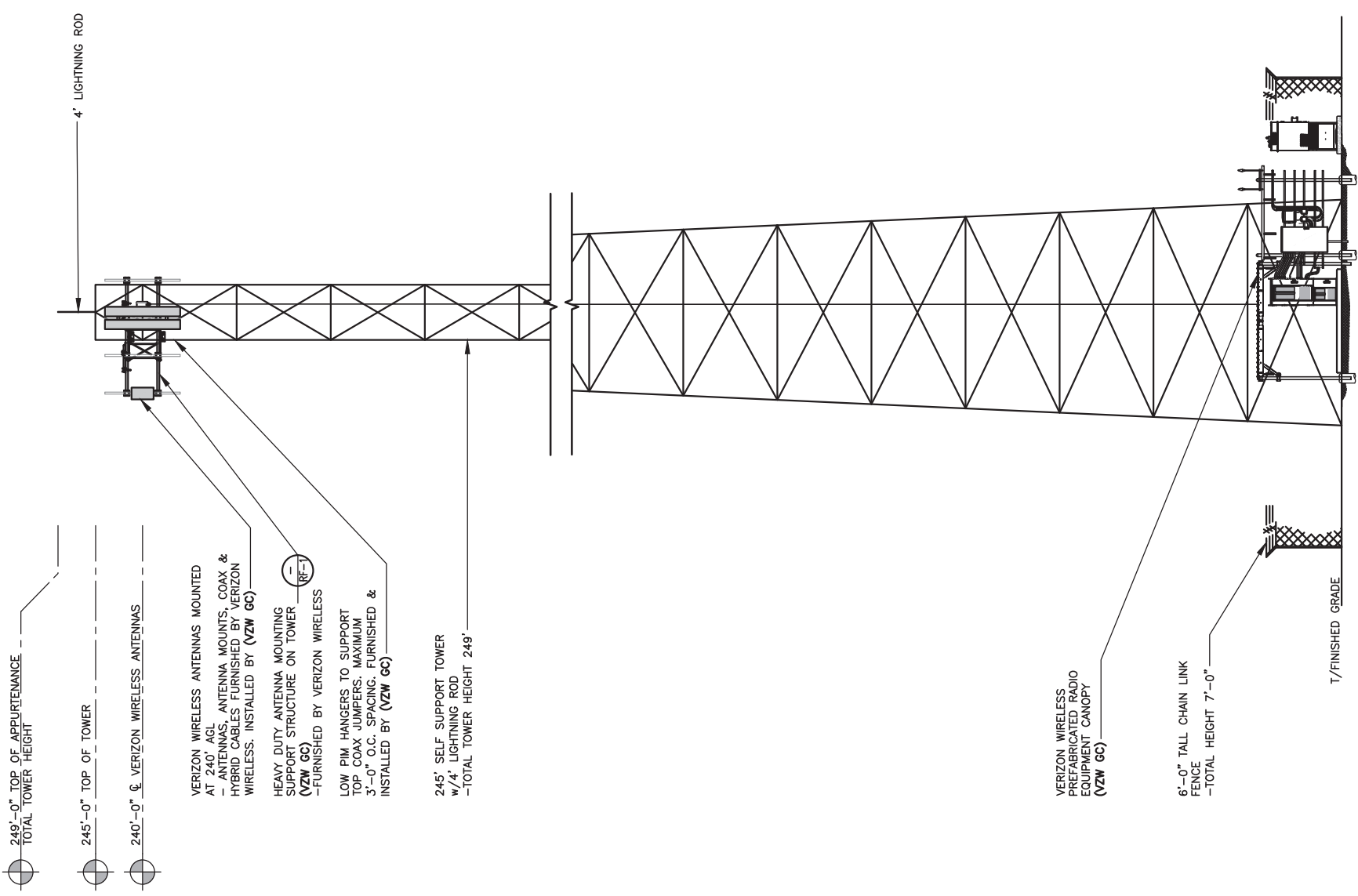
SITE NAME:
CK BLACK GNAT

PID NUMBER: 16735940
DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
TOWER ELEVATION

SHEET NUMBER:
TE-1
MK P10 & CHOPPY REV 3 FINAL 10/16/23

- NOTE:**
- IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL ANTENNA INFORMATION AGAINST FINAL RADIO ENGINEERING PLAN PROVIDED BY VERIZON LEGAL BUSINESS ENTITY
 - 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.



COAX PLAN
SCALE: N.T.S.

TOWER ELEVATION
SCALE: N.T.S.

1
TE-1





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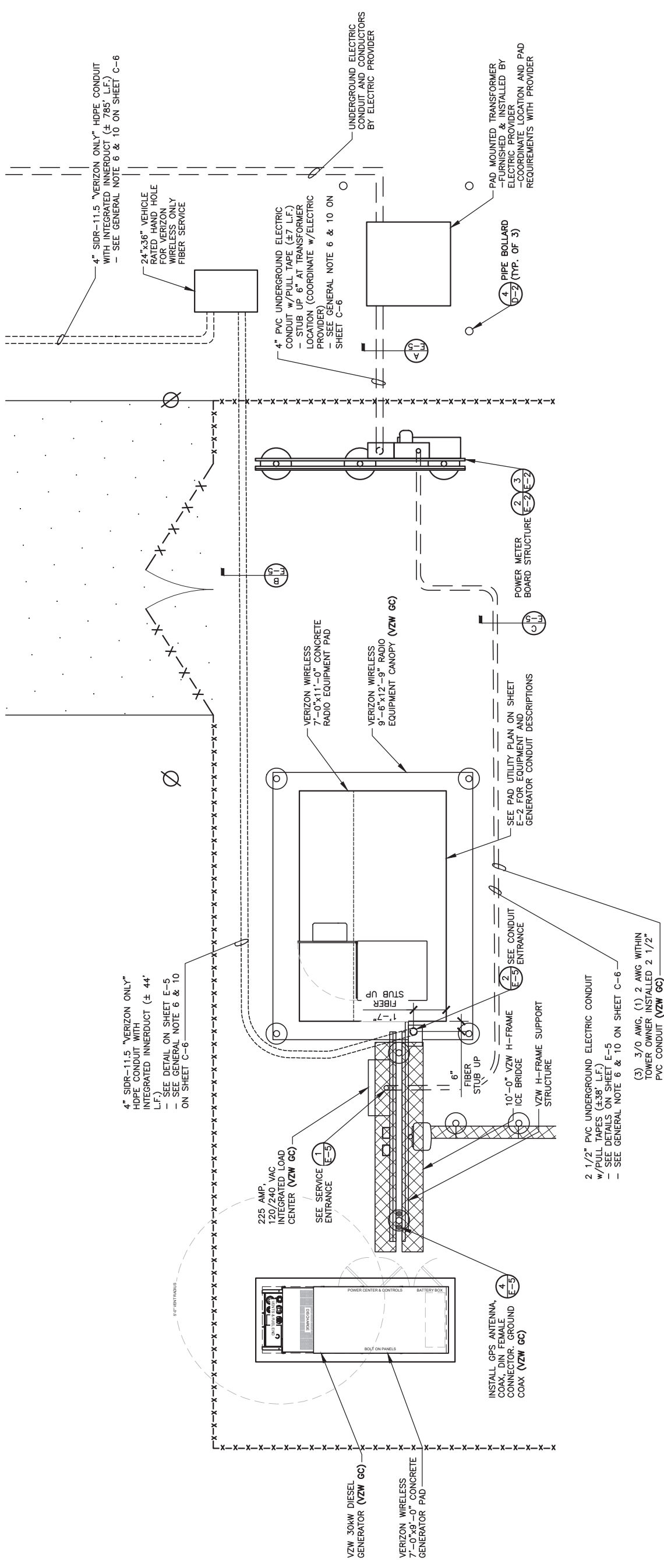
SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

PID NUMBER: 16735940
DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
SITE UTILITY PLAN

SHEET NUMBER:
E-1
MK PWD & CHMPY REV 3 FINAL 10/16/23



SITE UTILITY PLAN
SCALE: N.T.S.

- ELECTRICAL NOTES:**
1. PROVIDE 6'-0" MAX. LIQUDTIGHT FLEXIBLE METAL CONDUIT AT ALL EQUIPMENT 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 IMC WITH WEATHERPROOF FITTINGS.



Know what's below.
Call before you dig.
Call Monday thru Friday - 7 am. to 6 pm.
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) BUSINESS DAYS BEFORE THE EXCAVATION.

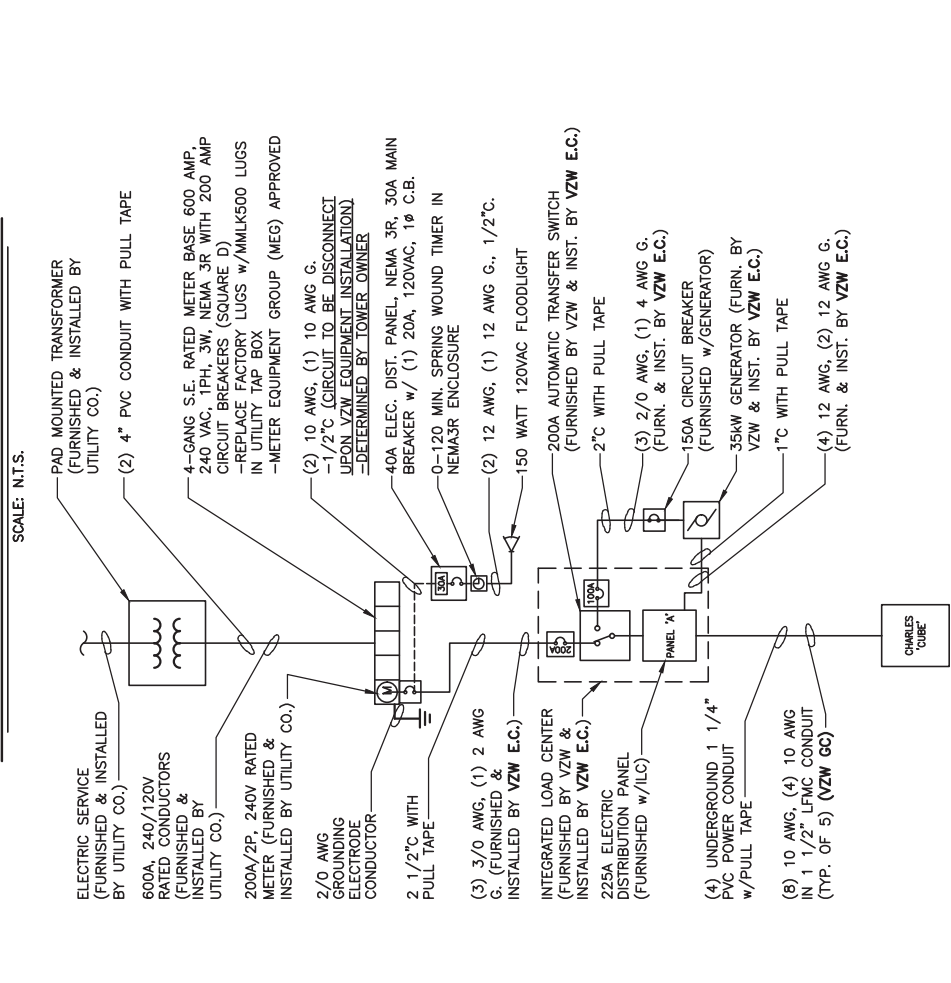
VERIZON PANEL "A" SCHEDULE

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
GFCI RECEPTACLE (RF CABINET)	15/1	180	15/1	180	GFCI RECEPTACLE
GEN. BLOCK HEATER	20/1	1500	20/1	1500	
CANOPY LIGHTS	15/1	126	20/1	250	GEN. BATTERY CHARGER

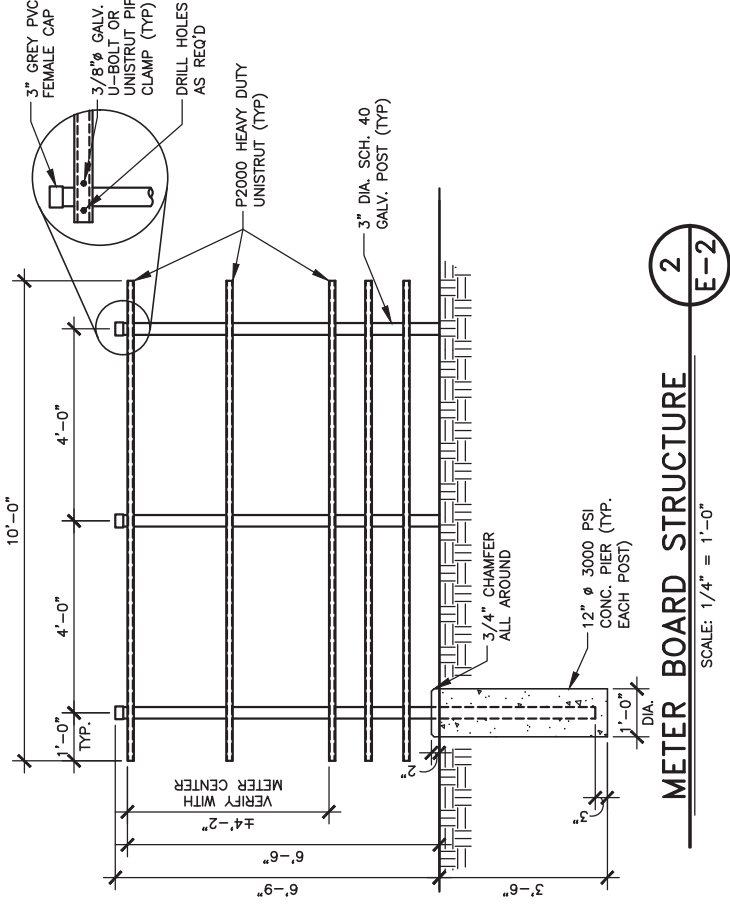
NON-CONTINUOUS LOAD = 0.00 KW, 00.00 AMPS
 CONTINUOUS LOAD = 31.04 KW X 1.25 = 38.80 KW, 161.67 AMPS
 TOTAL CONNECTED LOAD = 38.80 KW, 161.67 AMPS
 (E.C. SHALL VERIFY AIC RATINGS W/LOCAL POWER CO.)

PANEL SCHEDULE "A"



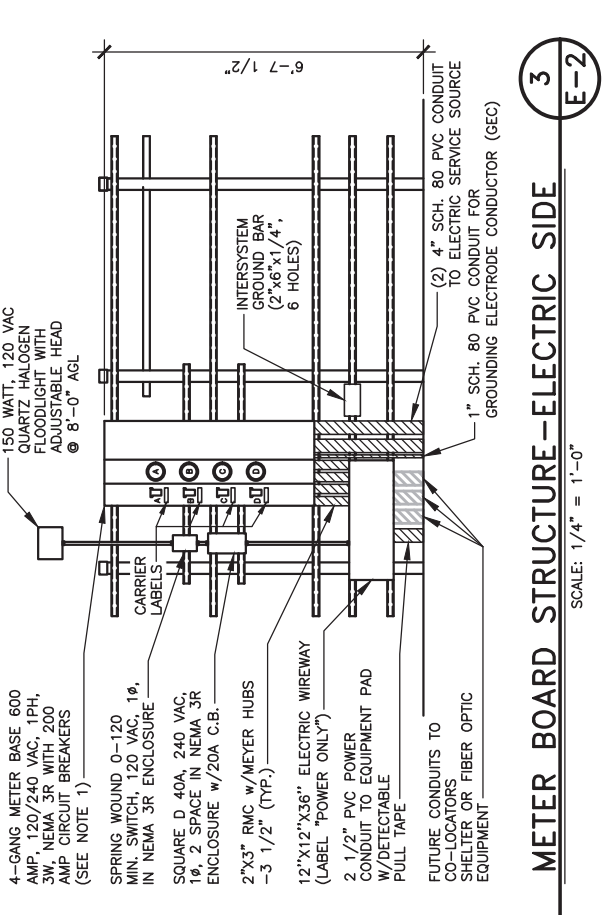
ONE LINE DIAGRAM

SCALE: N.T.S.



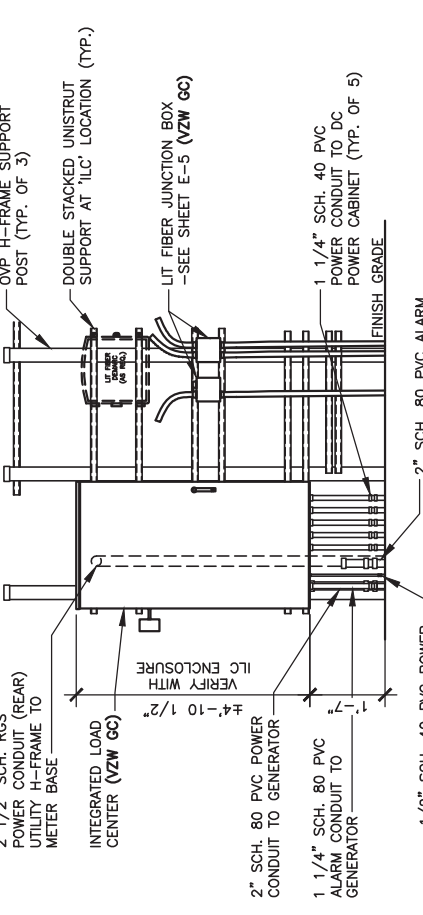
METER BOARD STRUCTURE

SCALE: 1/4" = 1'-0"



METER BOARD STRUCTURE-ELECTRIC SIDE

SCALE: 1/4" = 1'-0"



VZW ILC MOUNTING DETAIL

SCALE: 1/4" = 1'-0"

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 OTHERWISE.
- 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:
 - STAGE CONSTRUCTION AND REPORT WHEN ON AND OFF THE SITE.
 - PROVIDE LOG BOOK RECORDS OF PERSONNEL ON TOWER.
 - PROVIDE R.F. MONITORING DEVICES TO TOWER PERSONNEL.
 - 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 TAGES PREPARED ELECTRICAL CONTRACTORS. THE CONTRACTOR SHALL REVIEW ALL TAGES DRAWINGS FOR EACH TASK. THE CONTRACTOR SHALL OBTAIN ALL LOCAL AND TOWNSHIP PRIME CONTRACTOR, CARRIER, OSHA, N.F.P.A. AND LOCAL SAFETY GUIDELINES 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. (2/0 AWG TINNED STRANDED COPPER GROUNDING ELECTRODE CONDUCTOR IN 1" PVC CONDUIT). CONNECT FIRST GROUNDING ELECTRODE TO SECOND GROUNDING ELECTRODE WITH 2/0 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:
 - AVAILABLE FAULT CURRENT RATING FROM UTILITY PROVIDER WITH DATE.
 - VERIZON WIRELESS SERVICE DISCONNECT AT METER BASE.
 - VERIZON MAIN BREAKER AT INTEGRATED LOAD CENTER "ILC".
 - GENERATOR NEUTRAL CONDUCTOR BONDED TO SERVICE GROUNDING ELECTRODE IN THIS ENCLOSURE AT METER CENTER AND AUTOMATIC TRANSFER SWITCH "ATS" NEUTRAL BAR.
 - VERIZON WIRELESS GENERATOR
 - "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-F-RAME 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 w/ANTI-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 SPECIFICATIONS PROVIDED BY THE OWNER FOR MEANING OF ABBREVIATIONS AND ADDITIONAL REQUIREMENTS AND INFORMATION. CHECK STRUCTURAL AND OTHER 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.

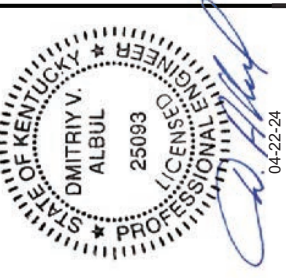
Southern Towers BTS

250 SIGNAL MOUNTAIN RD. SUITE B CHATTANOOGA, TN 37405



49030 Pontiac Trail, Suite 100
Livonia, Michigan 48393
PHONE: (248) 705-9212

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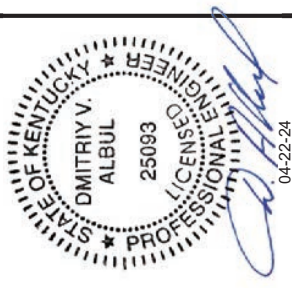
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PID NUMBER: 16735940
DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
PANEL SCHEDULE,
ONE LINE DIAGRAM,
ELECTRICAL NOTES
AND DETAILS

SHEET NUMBER:
E-2

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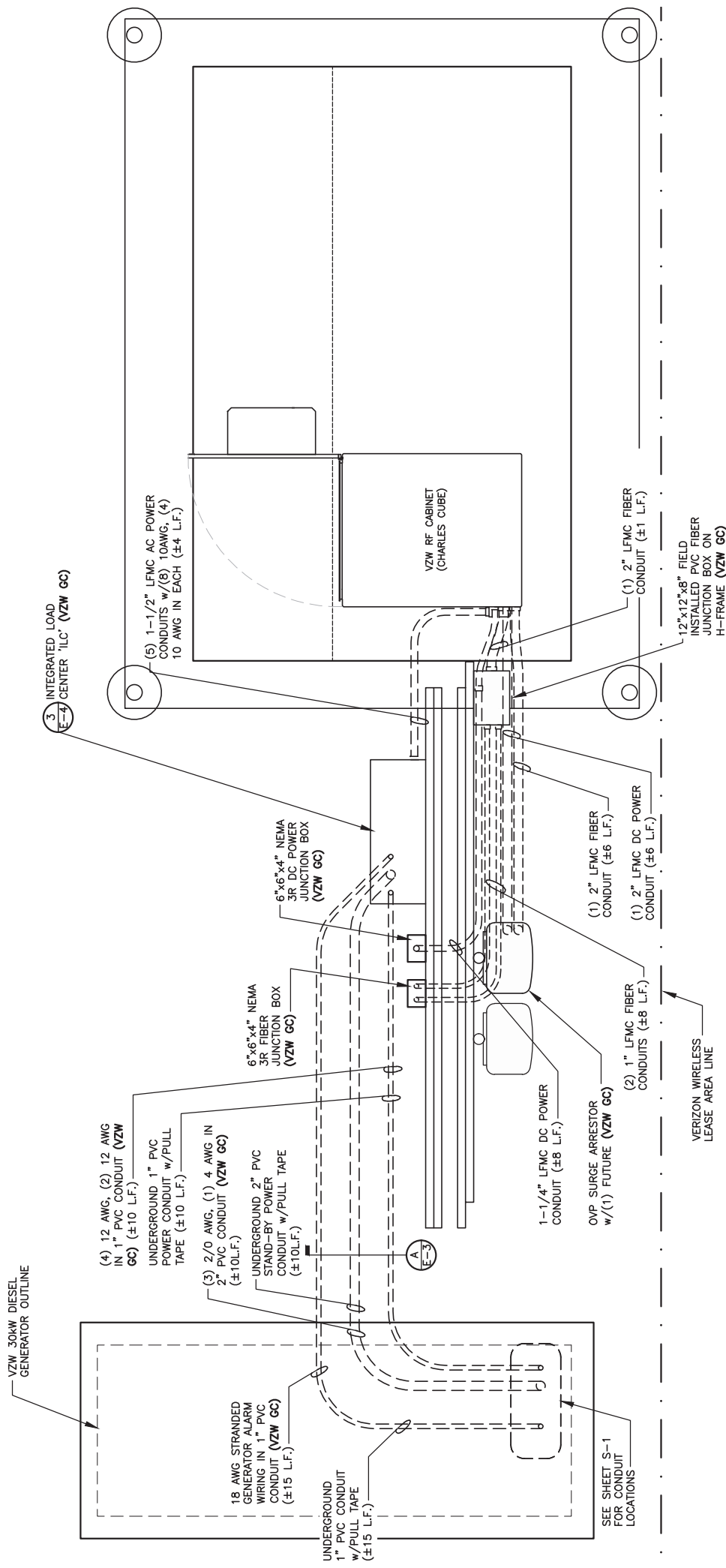
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CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
**EQUIPMENT PAD
UTILITY PLAN &
EQUIPMENT PAD
TRENCH SECTIONS**

SHEET NUMBER:

E-3
MK PWD & CHMPY REV. 3 FINAL 10/16/23

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

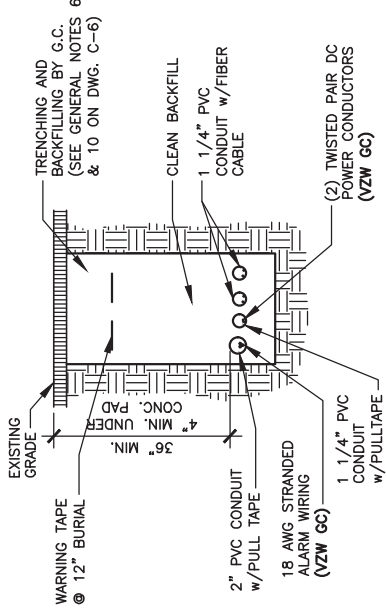


EQUIPMENT PAD UTILITY PLAN

SCALE: 3/8" = 1'-0"

ELECTRICAL NOTES:

- EMERGENCY GENERATOR SHALL BE AS MANUFACTURED BY HOFFMAN ENCLOSURE (P/N A865JFG9RPMR) OR APPROVED EQUAL
- GENERATOR EMERGENCY STOP SWITCH SHALL BE OF A SINGLE PUSH BUTTON OPERATING MODE USING A MAINTAINED PUSH/PULL ACTUATOR AS MANUFACTURED BY PILLA ELECTRICAL PRODUCTS (P/N GS120) OR APPROVED EQUAL
- CONTACT BLOCKS SHALL BE RATED AT CONTINUOUS CURRENT OF 10A @ 120 VAC
- PROVIDE 6'-0" MAX. LIQUDTIGHT FLEXIBLE METAL CONDUIT AT ALL EQUIPMENT AND GENERATOR CONNECTIONS.
- ALL CONDUIT SHALL BE ROUTED WITHIN 2'-0" OF PERIMETER COMPOUND FENCE WHERE APPLICABLE.
- CONDUIT TRENCH WIDTH SHALL NOT EXCEED 18" AT ALL ACCESS DRIVE LOCATIONS AND WHEN CROSSING THE COMPOUND GATE OPENING.
- ALL CONDUIT RACEWAYS BETWEEN CABINETS ABOVE CONCRETE PAD SHALL BE 2" DIAMETER SCH40 PVC WITH WEATHERPROOF FITTINGS.
- ALL GENERATOR CONDUITS SHALL BE INSTALLED REGARDLESS OF INITIAL GENERATOR INSTALLATION.



**RF CABINET FEEDER
TRENCH SECTION DETAIL**

SCALE: N.T.S.

A
E-3

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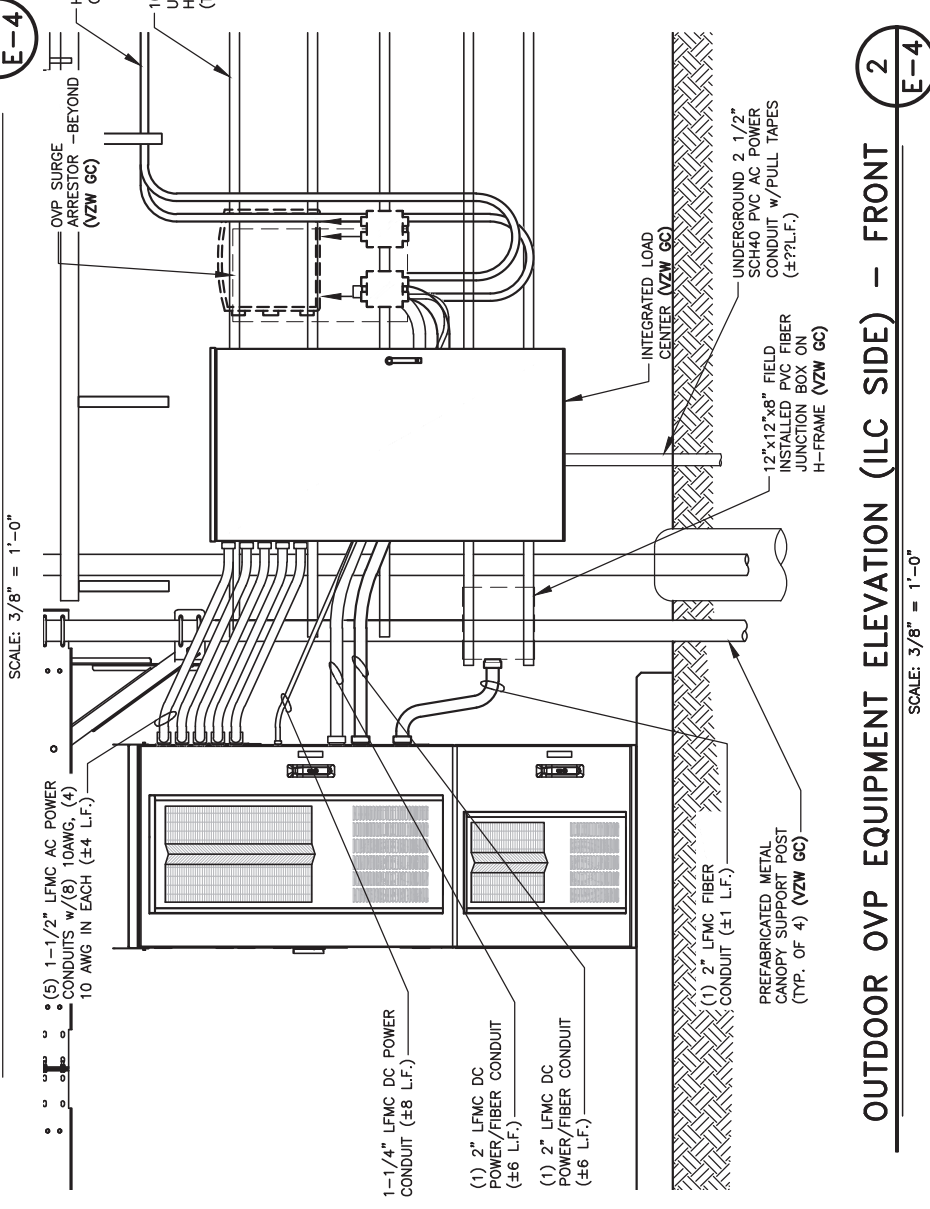
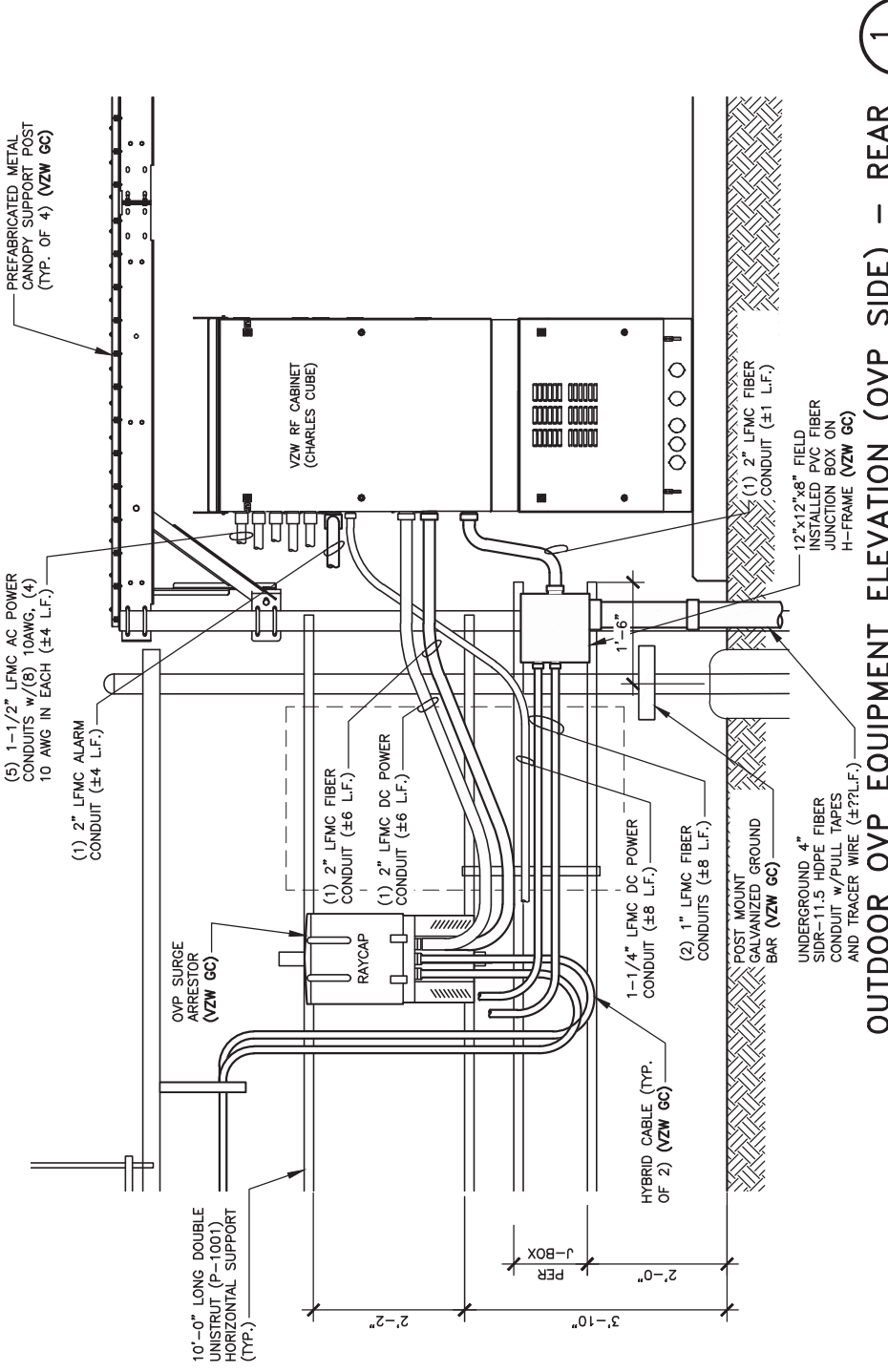
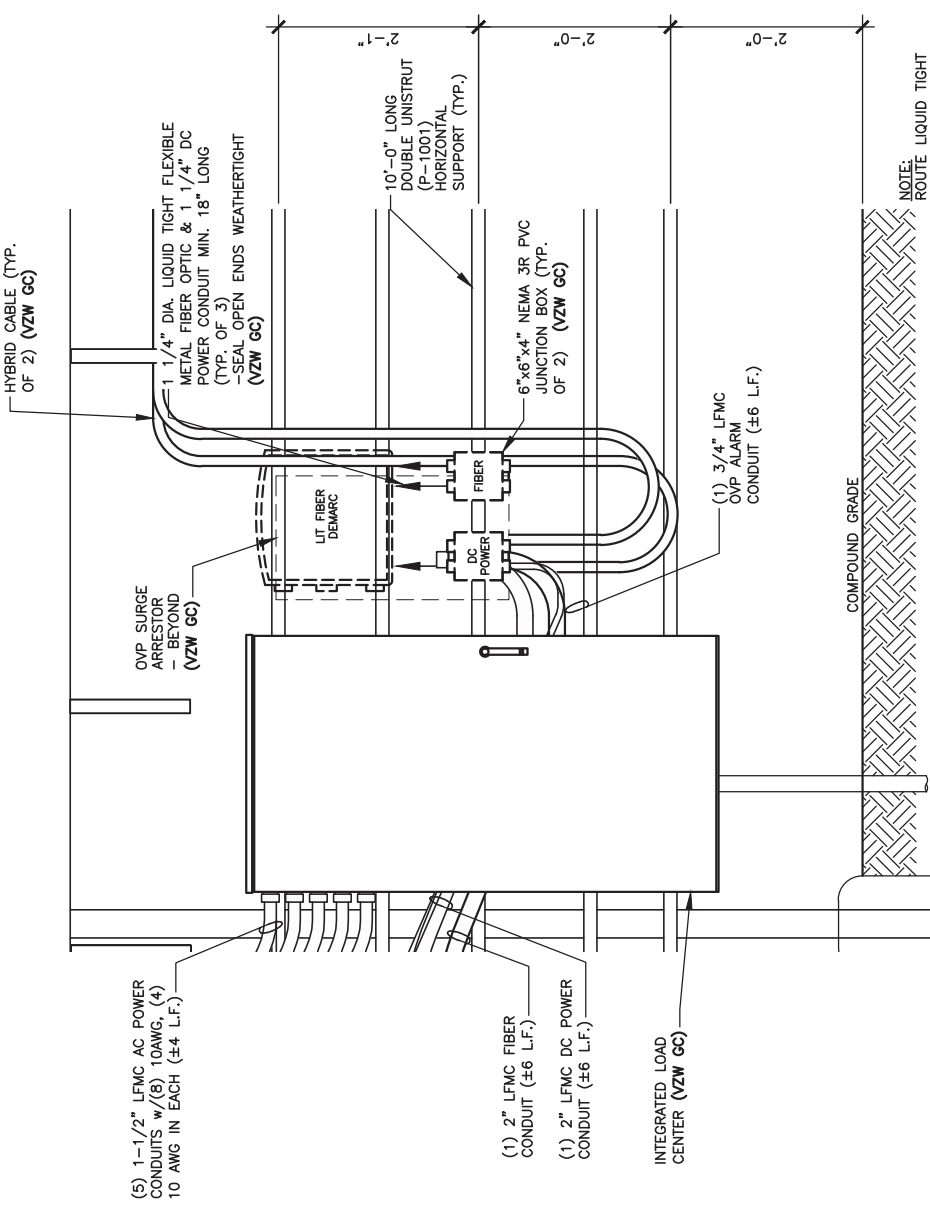
SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

PID NUMBER: 16735940
DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
**OVP & INTEGRATED
LOAD CENTER
H-FRAME ELEVATIONS
AND DETAILS**

SHEET NUMBER:
E-4



3
E-4

1
E-4

2
E-4

REV.	DATE	DESCRIPTION
A	09/23/23	ISSUED FOR REVIEW
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C	03/04/24	ISSUED FOR CONSTRUCTION
1	04/18/24	ISSUED FOR CONSTRUCTION



CK BLACK GNAT
5321 GREENSBURG RD,
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

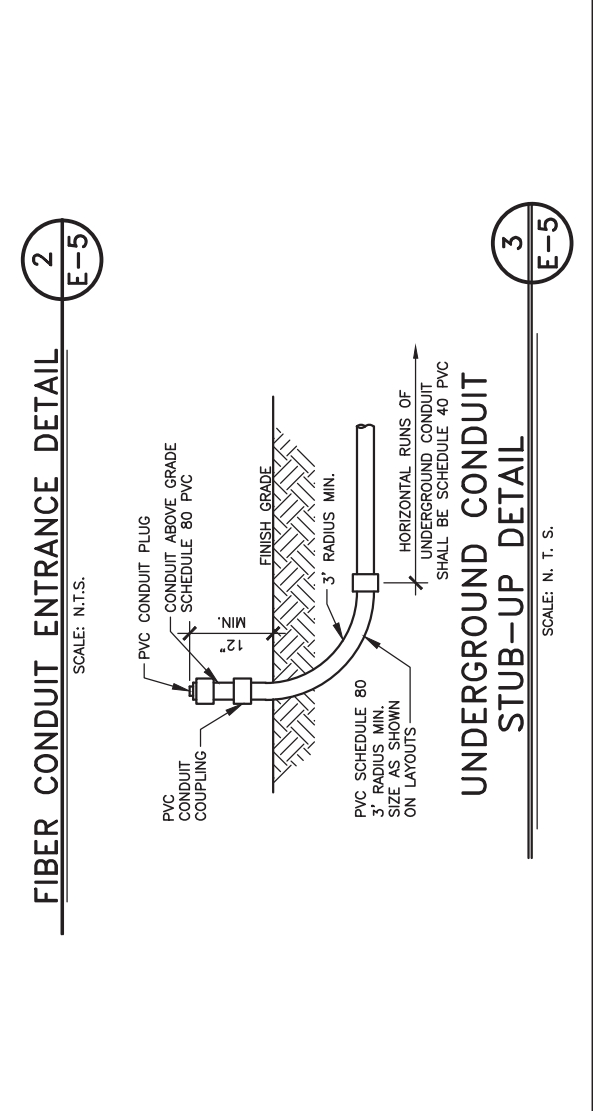
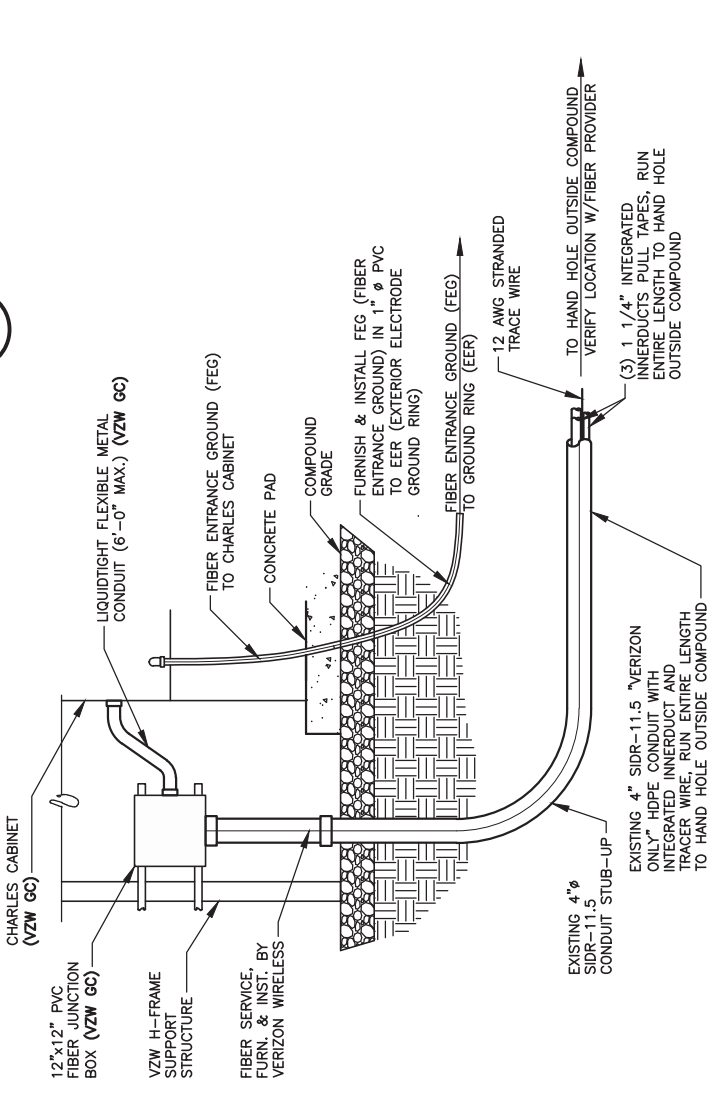
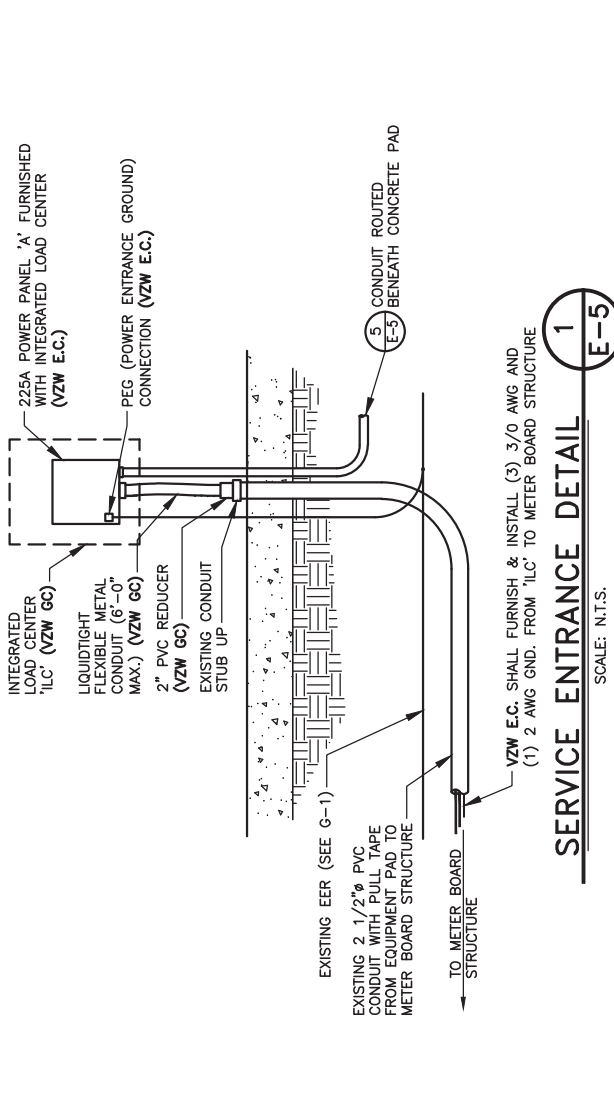
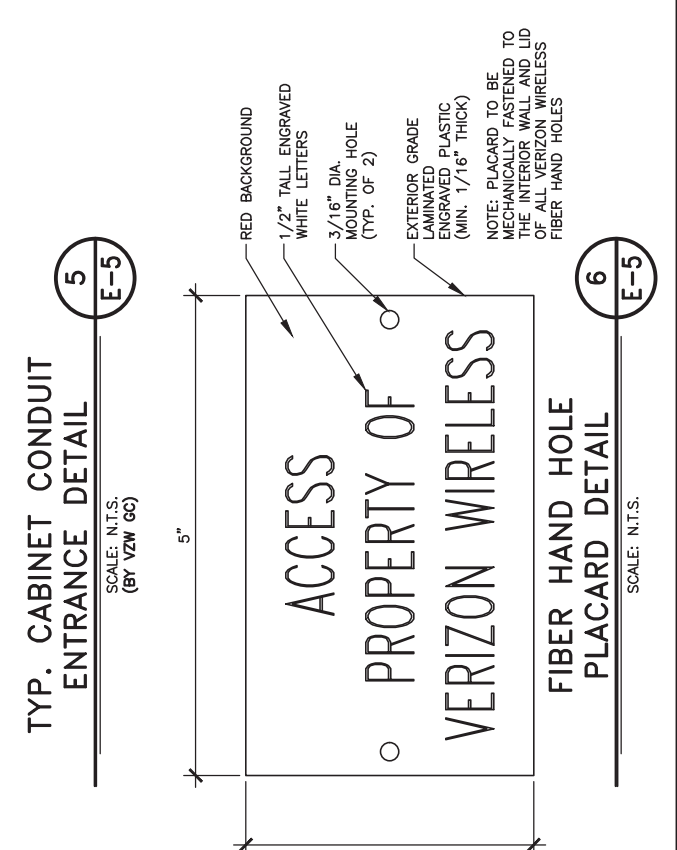
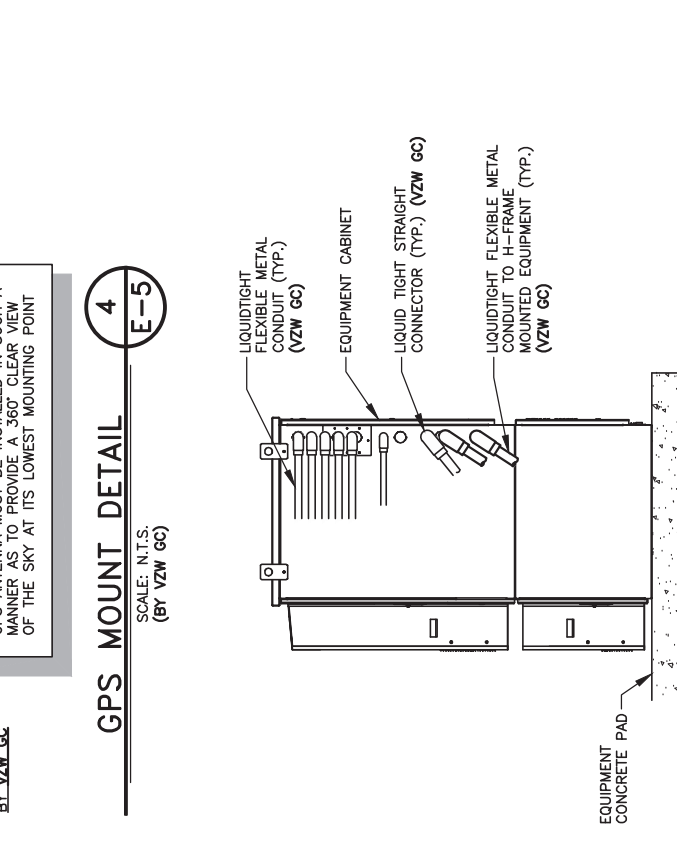
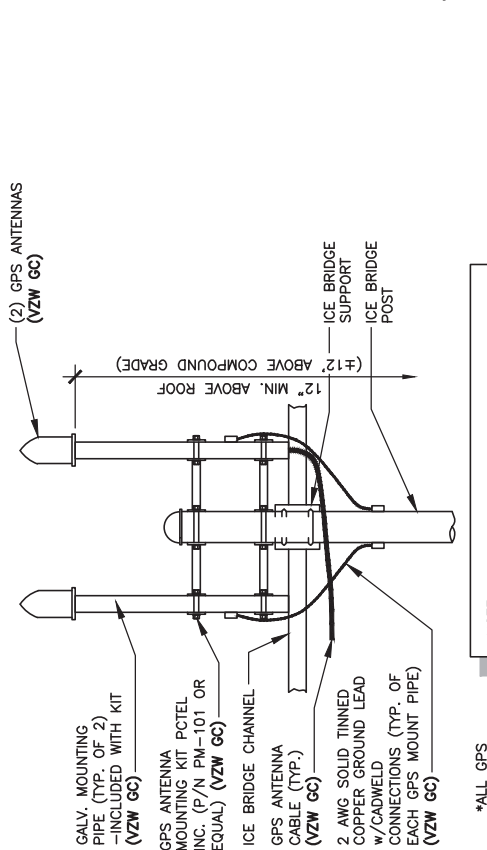
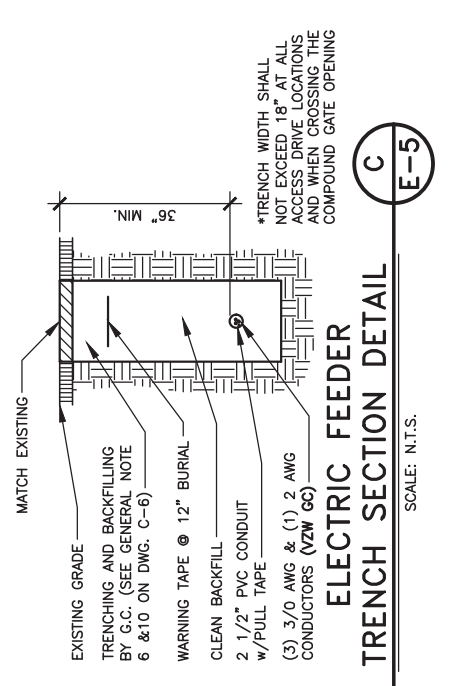
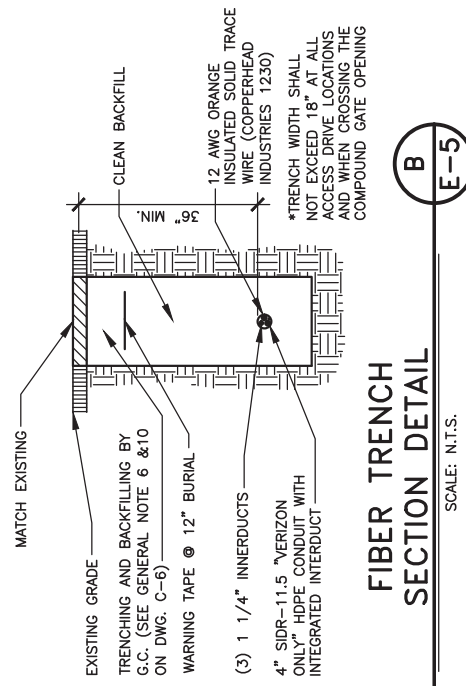
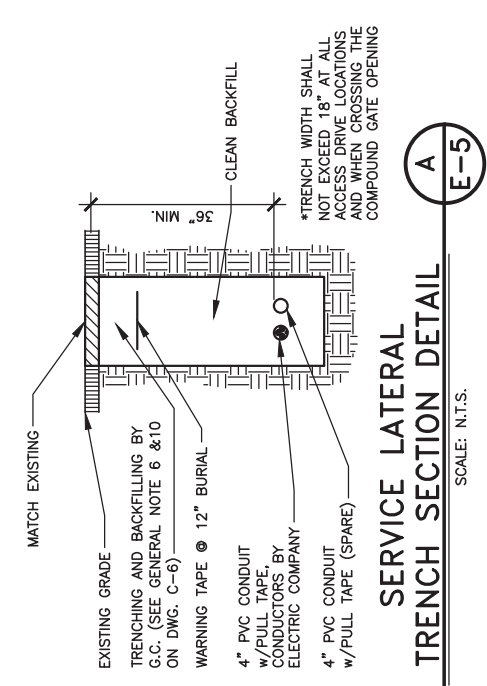
SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

PID NUMBER: 16735940
DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
**ELECTRICAL
DETAILS**

SHEET NUMBER:
E-5



REV.	DATE	DESCRIPTION
A	09/23/23	ISSUED FOR REVIEW
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SITE INFORMATION:
CK BLACK GNAT
5321 GREENSBURG RD,
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

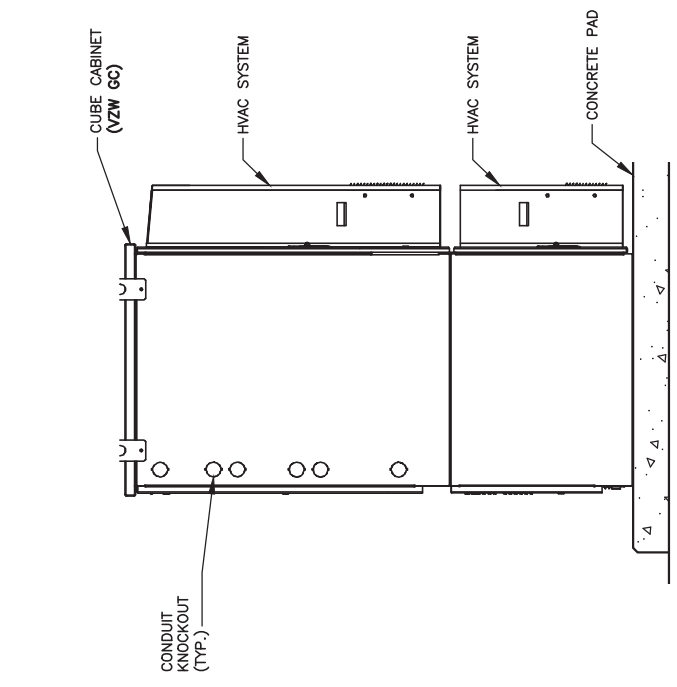
PID NUMBER: 16735940
DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
**EQUIPMENT CABINET
ELEVATIONS**

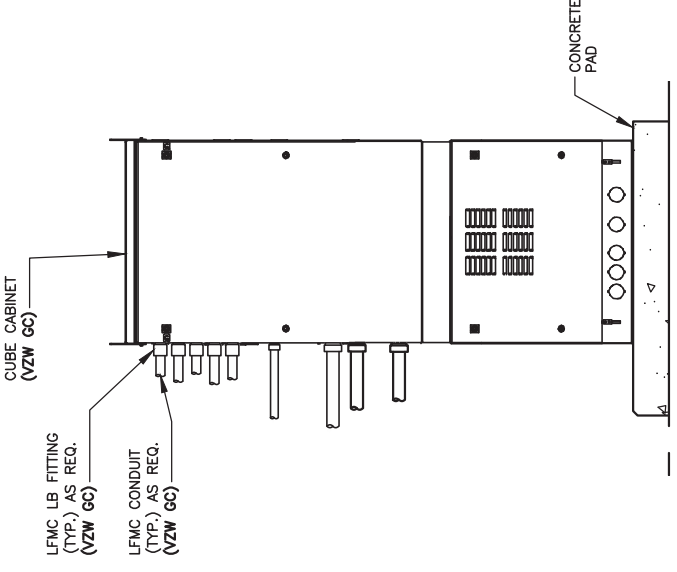
SHEET NUMBER:
E-6
MK PWD & COMPANY REV 3 FINAL 10/16/23

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

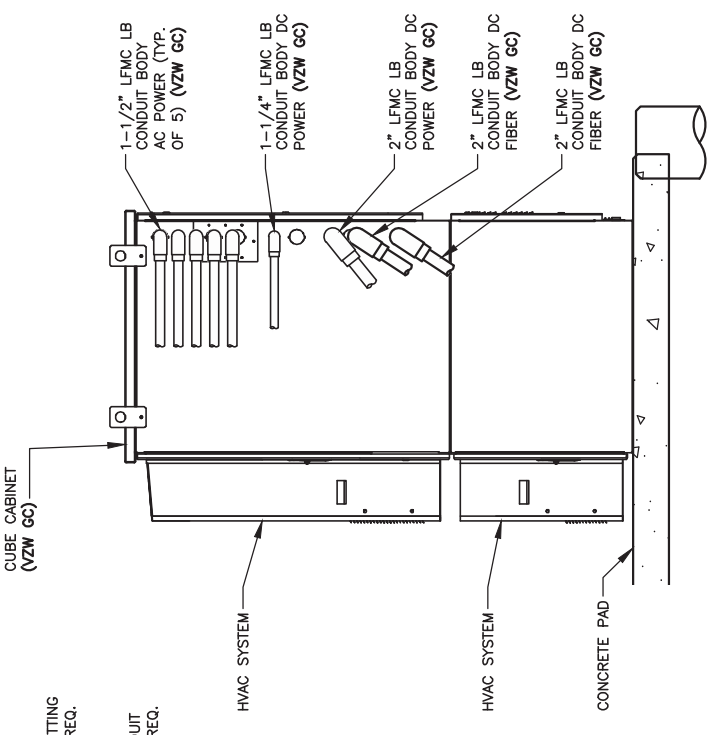
NOTE:
FIBER OPTIC INNERDUCTS SHALL
TERMINATE INSIDE CHARLES CABINET
ONLY



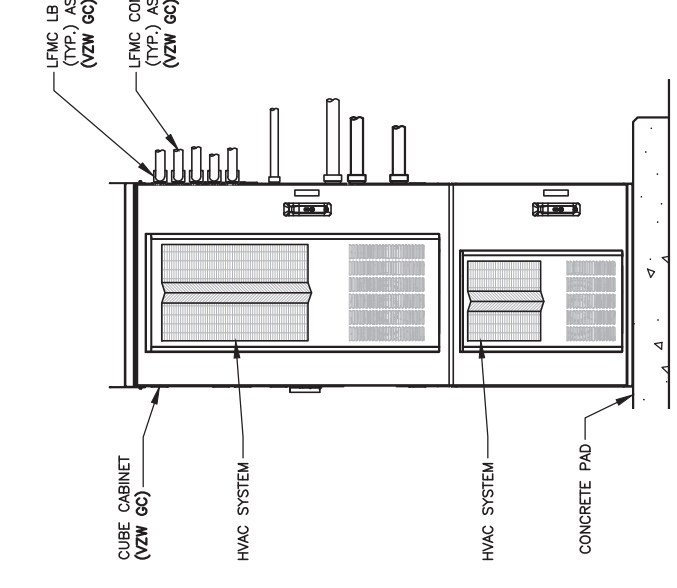
**RF CABINET
LEFT ELEVATION**
SCALE: N.T.S. **4**
E-6



**RF CABINET
REAR ELEVATION**
SCALE: N.T.S. **3**
E-6



**RF CABINET
RIGHT ELEVATION**
SCALE: N.T.S. **2**
E-6



**RF CABINET
FRONT ELEVATION**
SCALE: N.T.S. **1**
E-6

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TAYLOR COUNTY

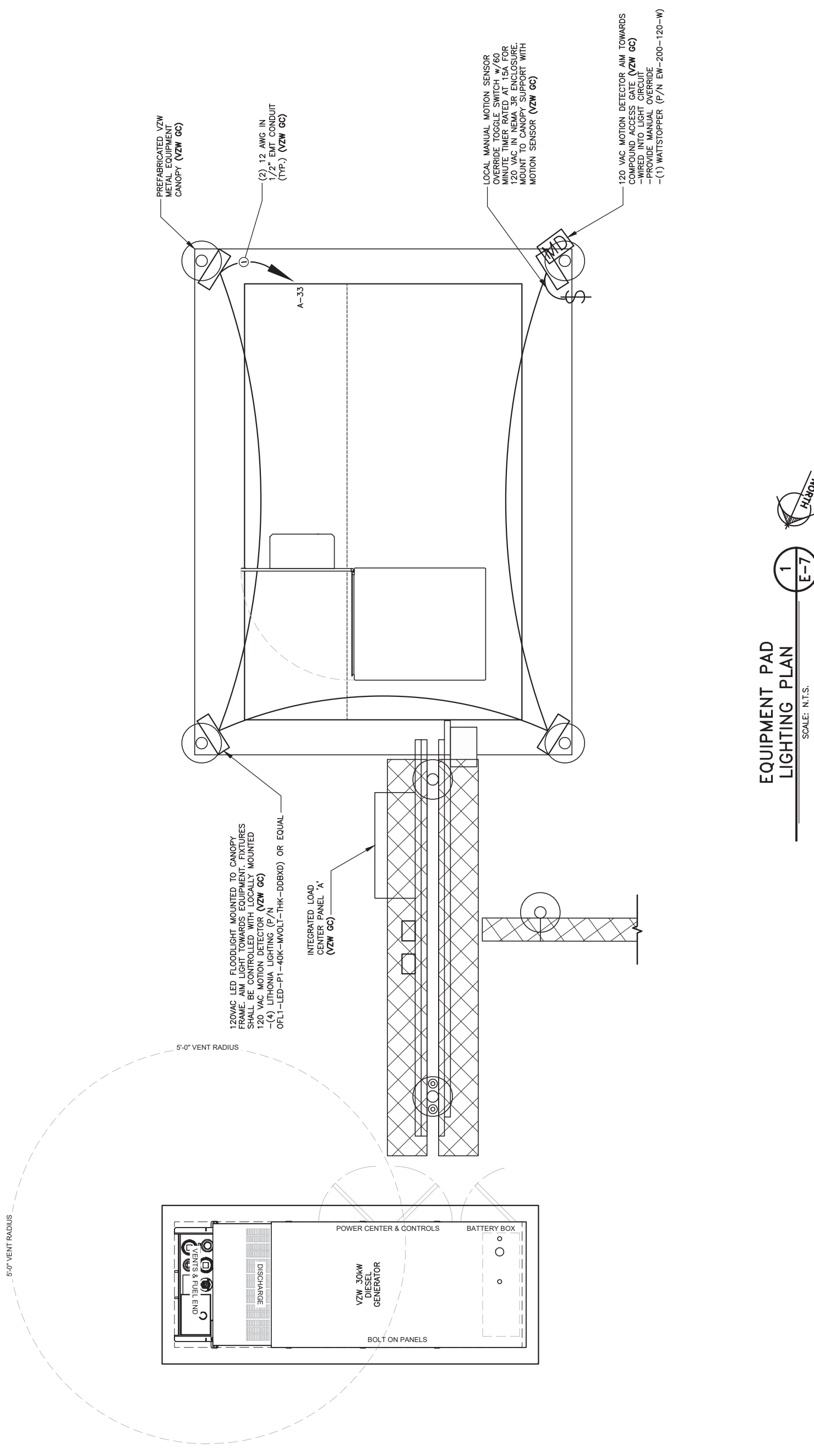
SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

PID NUMBER: 16735940
DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
**EQUIPMENT PAD
LIGHTING PLAN**

SHEET NUMBER:
E-7
MK PAD & CANOPY REV.3 FINAL 10/16/23



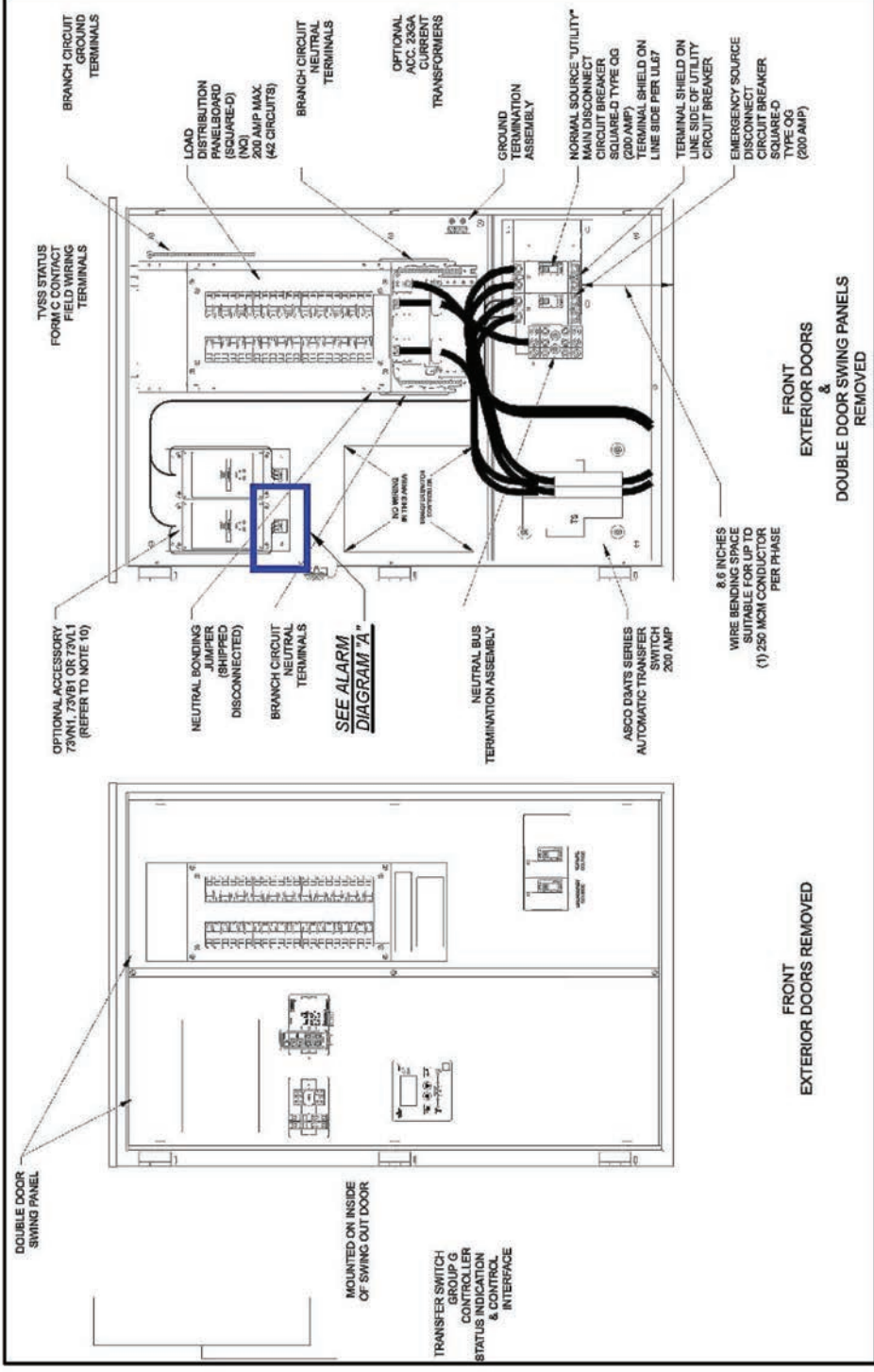
1
E-7

**EQUIPMENT PAD
LIGHTING PLAN**

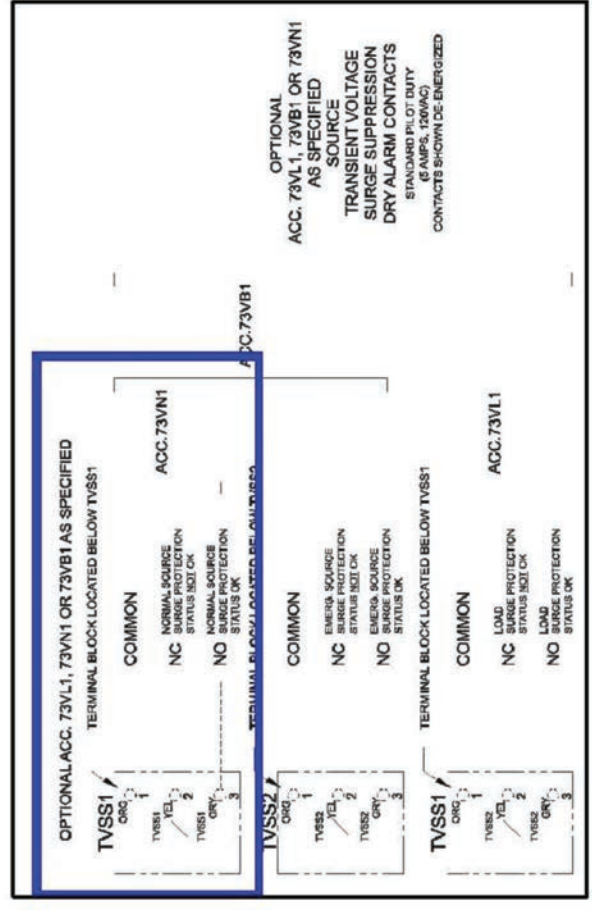
SCALE: N.T.S.

Alarm wiring table			
Alarm block pos	Wire color	Alarm	Wire Color
1	White/Orange	Door Intrusion	White or Blue
2	Orange	Commercial Power Failure	White or Blue
3	White/Green	Surge Suppressor Lightning Arrestor	White or Blue
4	Green	Rectifier Failure	White or Blue
5	White/Blue	Multiple Rectifier Failure	Red or Blue
6	Blue	Battery Discharge	Red or Blue
7	White/Brown	Low Voltage	Red or Blue
8	Brown	DC Power Failure	Red or Blue
9	White/Orange	Generator Running	Black or Blue
10	Orange	Generator Low Fuel	Black or Blue
11	White/Green	Generator Failure	Black or Blue
12	Green	HVAC Failure	Black or Blue
13	White/Blue	High Temp	Yellow or Blue
14	Blue	Low Temp	Yellow or Blue
15	White/Brown	Tower Light	Yellow or Blue
16	Brown	Tower Light Side	Yellow or Blue
17	White/Orange	RRH Upconverter Failure	Violet or Blue
18	Orange	RRH Power Failure	Violet or Blue
19	White/Green	RRH High Humidity	Violet or Blue
20	Green	RRH Intrusion	Violet or Blue
21	White/Blue	Smoke Fire	Blue
22	Blue	Bus Bar Theft	Blue
23	White/Brown	N/A	Blue
24	Brown	N/A	Blue
25	White/Orange	N/A	Blue
26	Orange	N/A	Blue
27	White/Green	N/A	Blue
28	Green	N/A	Blue
29	White/Blue	N/A	Blue
30	Blue	N/A	Blue
31	White/Brown	N/A	Blue
32	Brown	N/A	Blue
33	White/Orange	N/A	Blue
34	Orange	N/A	Blue
35	White/Green	N/A	Blue
36	Green	N/A	Blue
37	White/Blue	N/A	Blue
38	Blue	N/A	Blue
39	White/Brown	N/A	Blue
40	Brown	N/A	Blue
41	White/Orange	N/A	Blue
42	Orange	N/A	Blue
43	White/Green	N/A	Blue
44	Green	N/A	Blue
45	White/Blue	N/A	Blue
46	Blue	N/A	Blue
47	White/Brown	N/A	Blue
48	Brown	N/A	Blue
49	White/Orange	N/A	Blue
50	Orange	N/A	Blue
51	White/Green	N/A	Blue
52	Green	N/A	Blue
53	White/Blue	N/A	Blue
54	Blue	N/A	Blue
55	White/Brown	N/A	Blue
56	Brown	N/A	Blue
57	White/Orange	N/A	Blue
58	Orange	N/A	Blue
59	White/Green	N/A	Blue
60	Green	N/A	Blue
61	White/Blue	N/A	Blue
62	Blue	N/A	Blue
63	White/Brown	N/A	Blue
64	Brown	N/A	Blue
65-84	N/A	N/A	N/A

ALARM WIRING TABLE
SCALE: N.T.S.



INTEGRATED LOAD CENTER DETAIL
SCALE: N.T.S.



NOTE:
1. VERIZON WIRELESS STANDARD
ALARM CONTACT NORMALLY CLOSED

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

Southern Towers BTS
250 SIGNAL MOUNTAIN RD, SUITE B
CHATTANOOGA, TN 37405
C: 423-531-8300

LAB
49030 Pontiac Trail, Suite 100
Wixom, Michigan 48393
PHONE: (248) 705-9212

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SITE INFORMATION:
CK BLACK GNAT
5321 GREENSBURG RD,
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

PID NUMBER: 16735940
DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
**ALARMING TABLE AND
DETAILS (REFERENCE
ONLY)**

SHEET NUMBER:
E-8
MK PWD & CHMPY REV 3 FINAL 10/16/23

REV.	DATE	DESCRIPTION
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CK BLACK GNAT
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TAYLOR COUNTY

SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

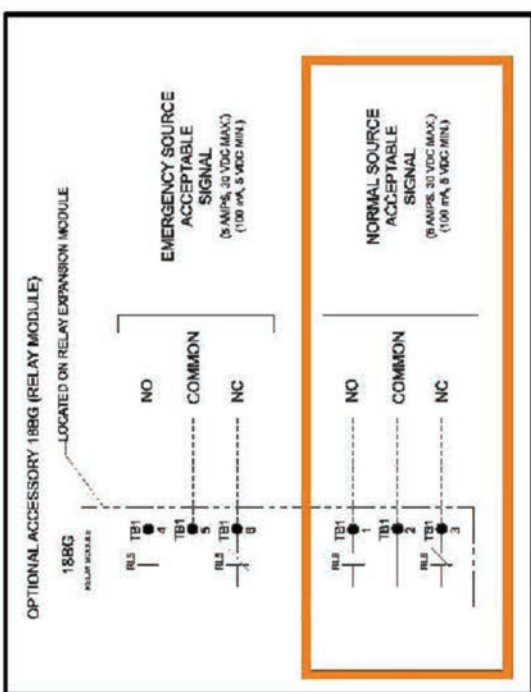
PID NUMBER: 16735940

DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

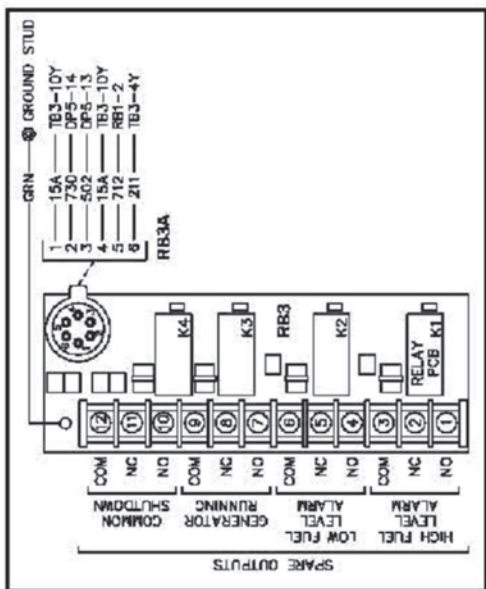
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**ALARMING DIAGRAMS
AND DETAILS
(REFERENCE ONLY)**

SHEET NUMBER:

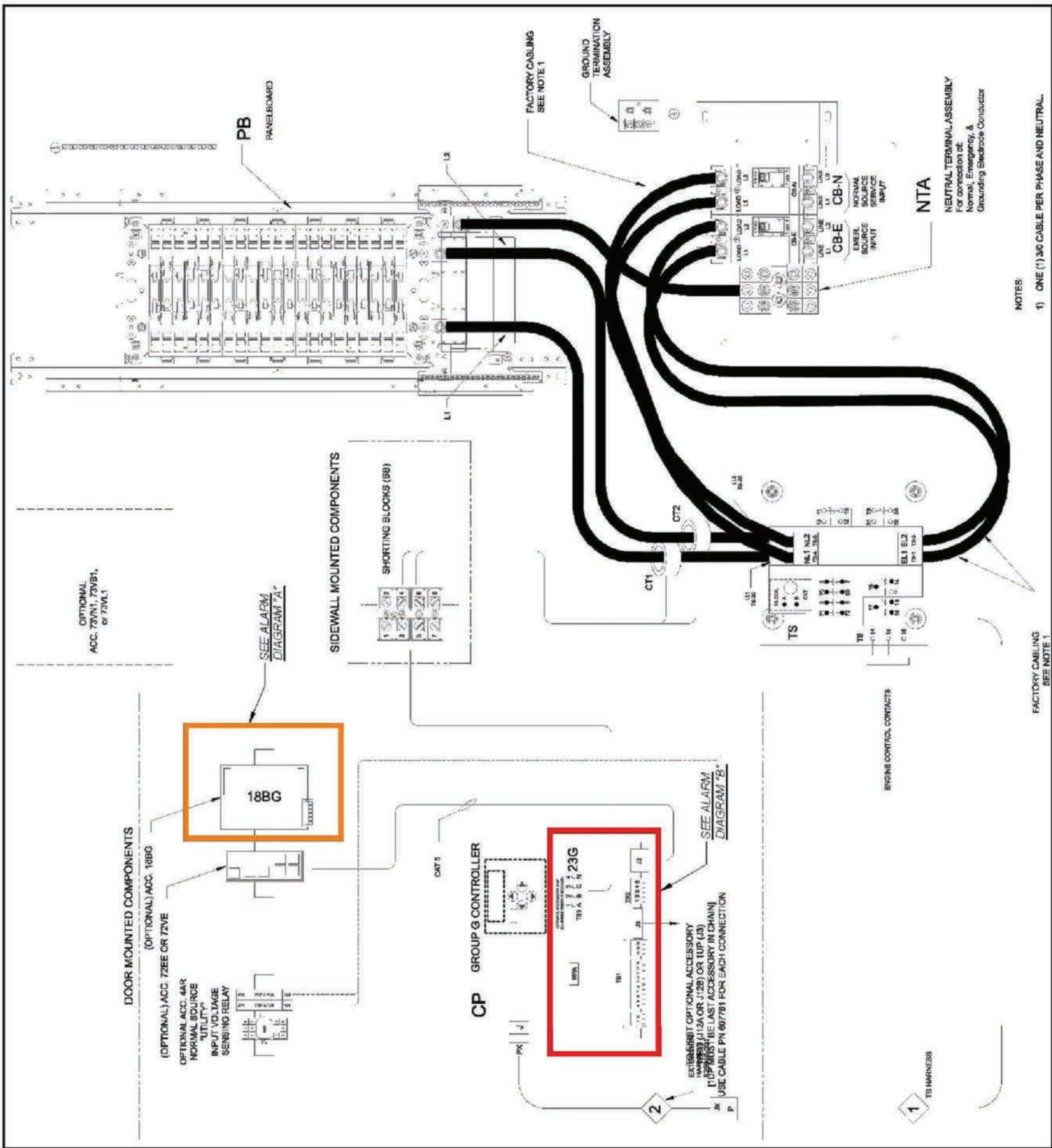
E-9



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



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



INTEGRATED LOAD CENTER DETAIL
SCALE: N.T.S.

1
E-9

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.

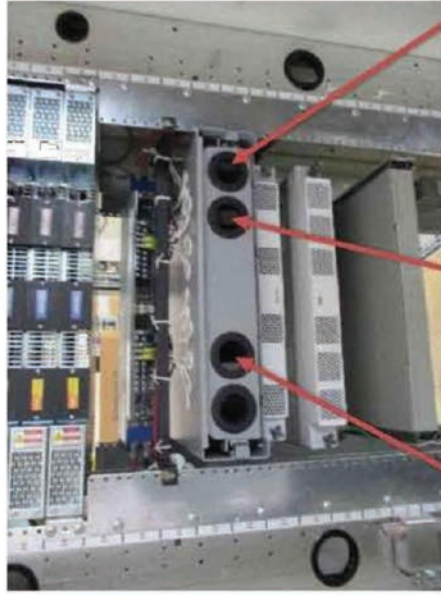
Route fibers UNDER the 6630/6648 Shelf #1 to front side of the cabinet

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							
4449 ALPHA	4449 BETA	4449 GAMMA	18843 ALPHA	18843 BETA	18843 GAMMA	6449 ALPHA LINK 1	6449 BETA LINK 2
6449 ALPHA LINK 1	6449 BETA LINK 2	6449 GAMMA LINK 1	6449 ALPHA LINK 2	6449 BETA LINK 1	6449 GAMMA LINK 2		
4408 ALPHA	4408 BETA	4408 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.

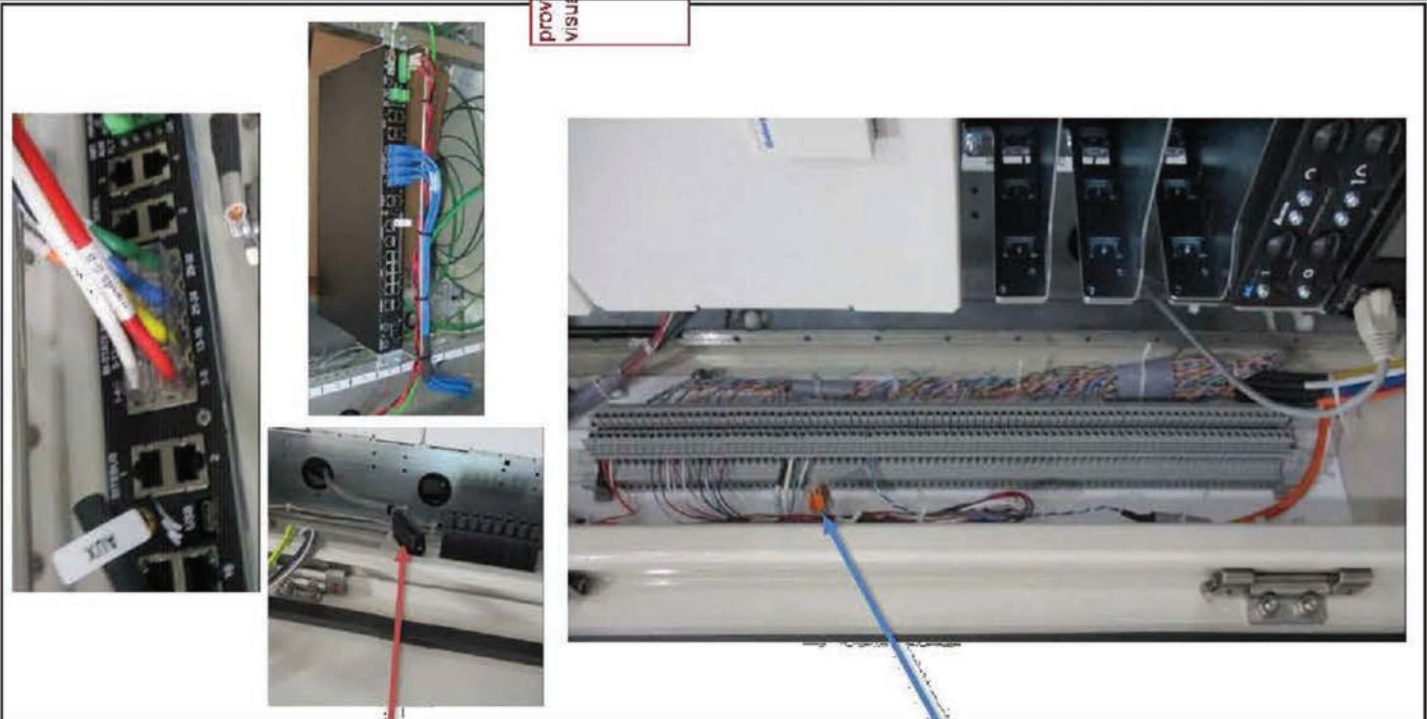
Connector J4

position 16

(Blue/Red) and

position 10

(Black/red)



ALARM WIRING CONNECTIONS 2
E-10

SCALE: N.T.S.

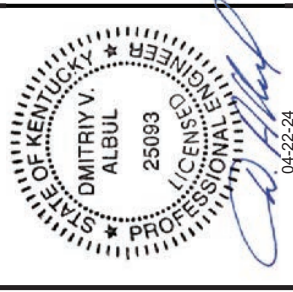
Southernlowers BTS

250 SIGNAL MOUNTAIN RD, SUITE B
CHATTANOOGA, TN 37405
C: 423-531-8300



49030 Pontiac Trail, Suite 100
Wixom, Michigan 48393
PHONE: (248) 705-9212

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SITE INFORMATION:

CK BLACK GNAT

5321 GREENSBURG RD,
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

PID NUMBER: 16735940

DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:

ALARM AND FIBER
CABLE ROUTING
(REFERENCE ONLY)

SHEET NUMBER:

E-10

MR. PNO & COMPANY REV. 3 FINAL 10/16/23

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CK BLACK GNAT
5321 GREENSBURG RD,
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

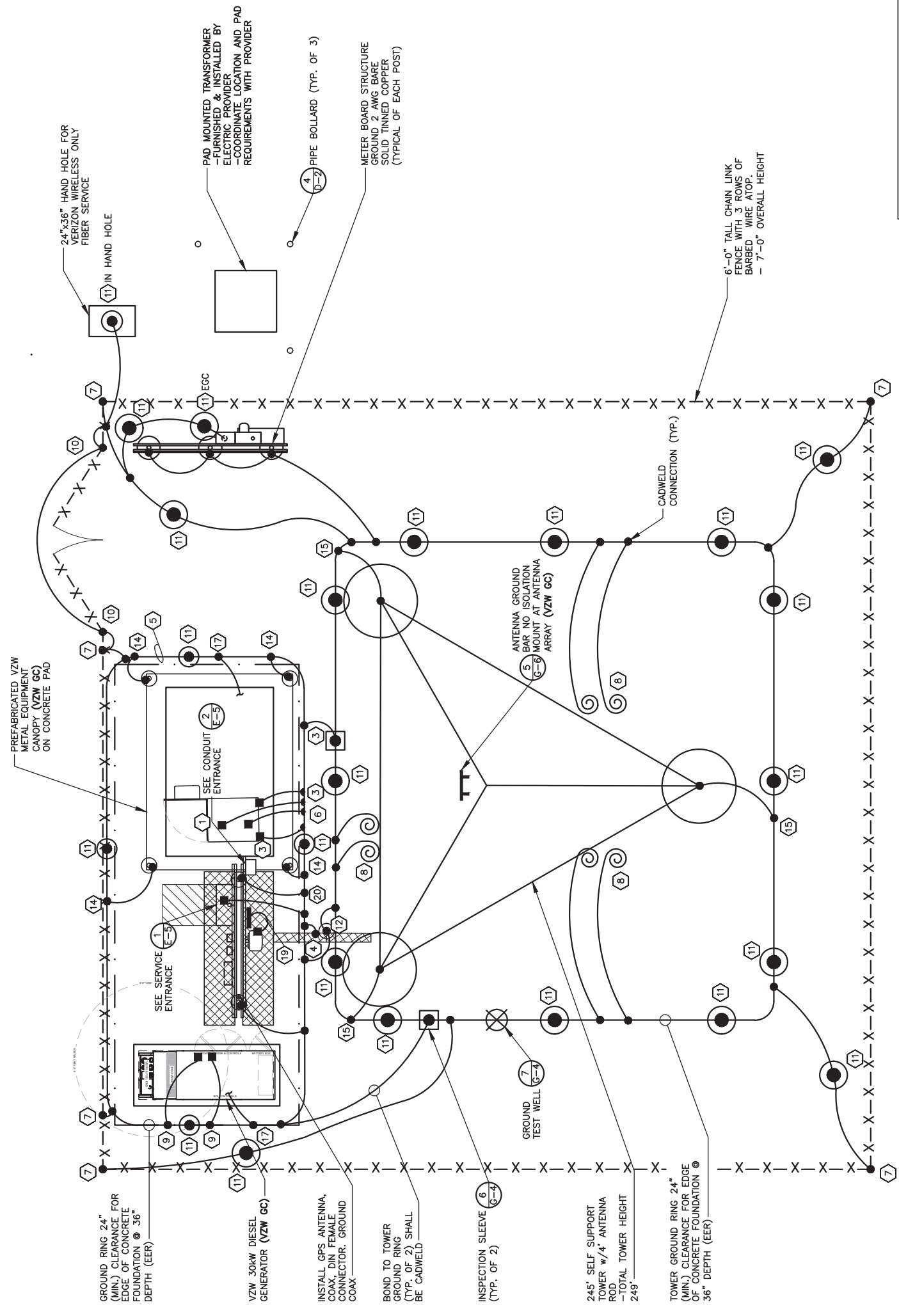
SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

PID NUMBER: 16735940
DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
GROUNDING SITE PLAN

SHEET NUMBER:
G-1
MK, PWD & COMPANY REV. 3 FINAL 10/16/23



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.

TOWER OWNER GROUNDING KEYED NOTES

- 1 BBG: FURN. & INST. 1 - 2/0 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 CEPSSG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR CEPSSG 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 (TGE). 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'-0" 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 IBSSG: 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 EACH PAD CANOPY SUPPORT BASE TO (EER). COIL UP 6" ABOVE GRADE. CONNECTION TO (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 3 POSTS). CONNECTION (EER) SHALL BE CADWELD.
- 21 GFGS: 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-5101).
9. 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.
10. 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.

LEGEND	
BBG	BATTERY BAY GROUND
CEPSSG	COAX ENTRY PROTECTION SYSTEM GROUND
CG	CABINET GROUND
CSG	CABLE SUPPORT GROUND
EER	BURIED EXTERIOR ELECTRODE GROUND RING
ECC	EQUIPMENT GROUNDING CONDUCTOR (NEC DESIGNATION)
FEG	FIBER ENTRANCE GROUND
FG	FUTURE TOWER WAVEGUIDE GROUND LEAD
FTWGL	FUTURE TOWER WAVEGUIDE GROUND LEAD (NEC DESIGNATION)
GEG	GENERATOR ENCLOSURE GROUND
GES	GROUNDING ELECTRODE SYSTEM (NEC DESIGNATION)
GG	GATE GROUND
GFGS	GPS ANTENNA MOUNT GROUND
GRE	GROUND ROD ELECTRODE
IBSSG	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
TWG	TOWER WAVEGUIDE GROUND ASSEMBLY
UG	UFER GROUND (PIER FOUNDATION)
	CABLE TO GND. ROD CADWELD CONNECTION
	TEST WELL
	INSPECTION PORT CABLE TO CABLE CADWELD CONNECTION

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A	09/23/23	ISSUED FOR REVIEW
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1	04/18/24	ISSUED FOR CONSTRUCTION



SITE INFORMATION:
CK BLACK GNAT
5321 GREENSBURG RD,
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

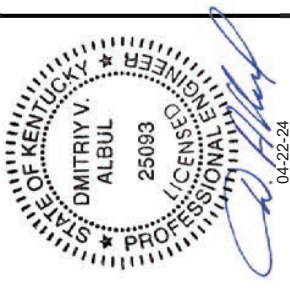
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DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:

GROUNDING NOTES

SHEET NUMBER:
G-2
MK PWD & CHECKY REV 3 FINAL 10/16/23

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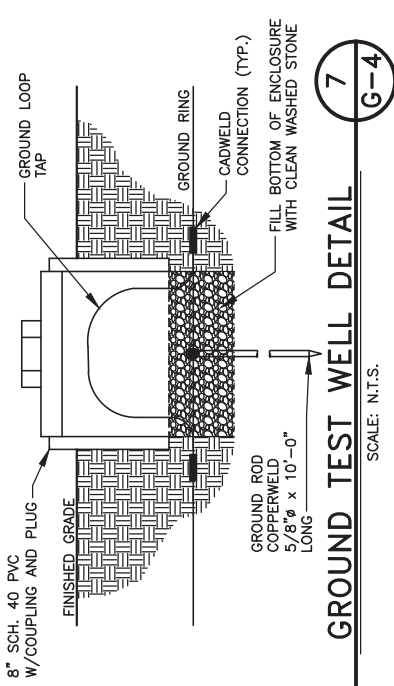
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DATE: 09.23.23

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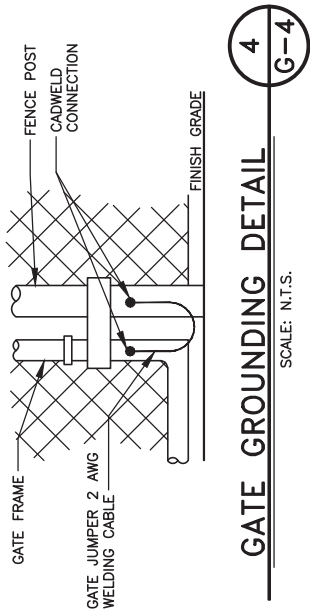
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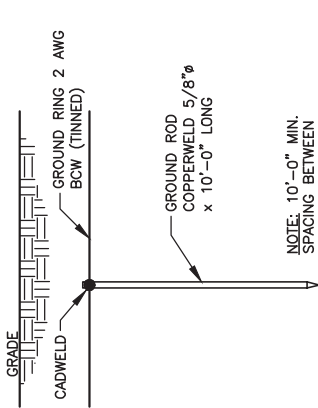
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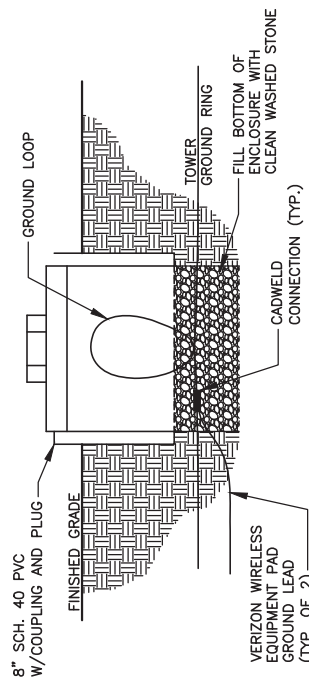
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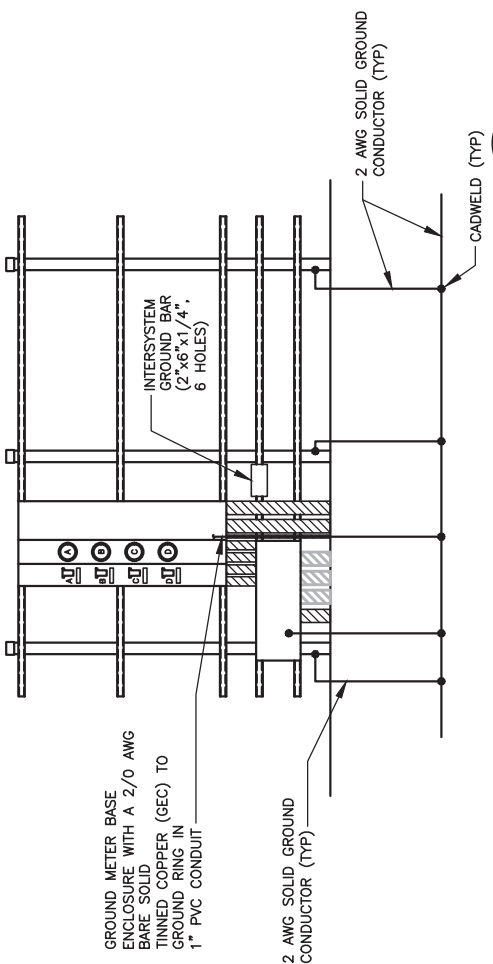
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G-4



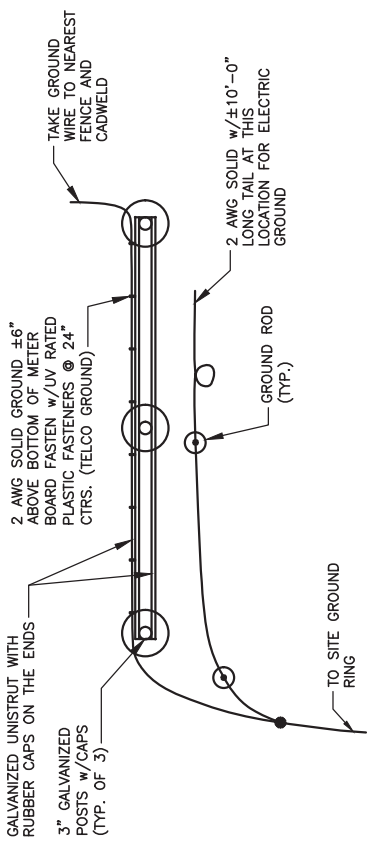
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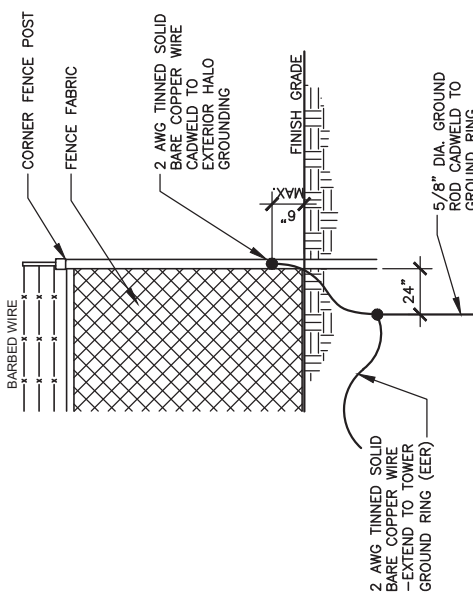
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G-4



1
G-4



2
G-4



3
G-4

250 SIGNAL MOUNTAIN RD, SUITE B
CHATTANOOGA, TN 37405
C: 423-531-5300



49030 Pontiac Trail, Suite 100
Wixom, Michigan 48393
PHONE: (248) 705-9212

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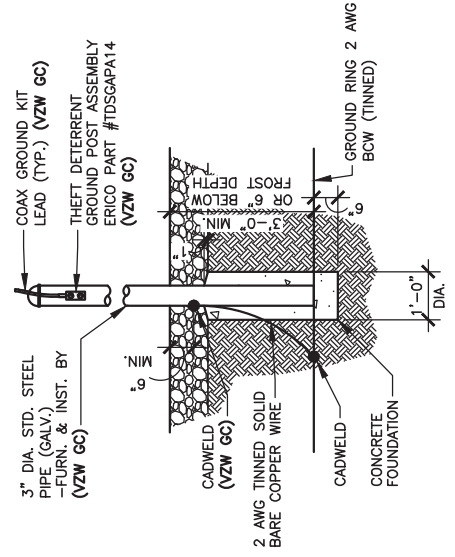
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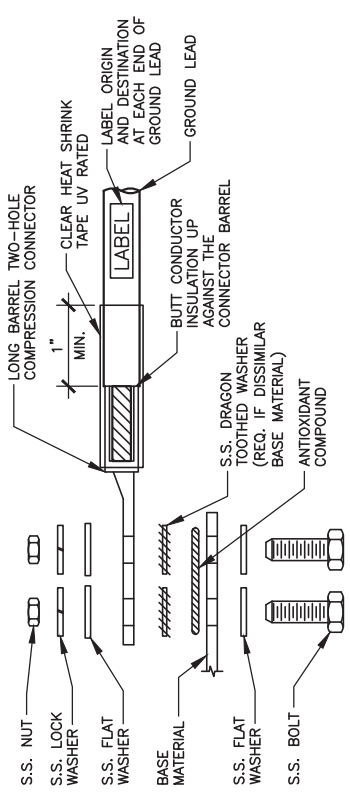
SHEET NUMBER:
G-5



THEFT DETERRENT POST MOUNT GROUND DETAIL (CEPSG)

1
G-5

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

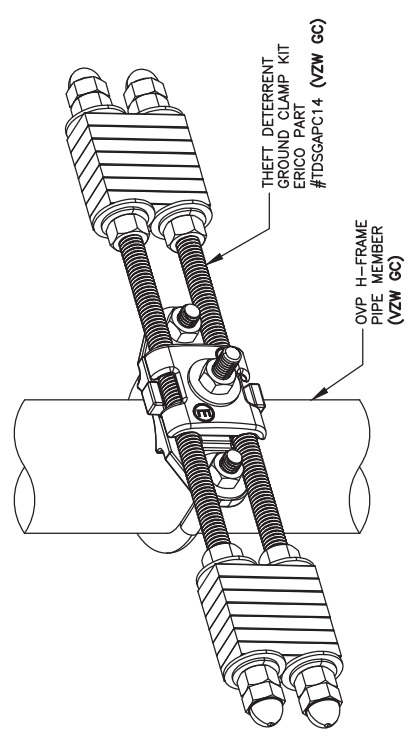


1. ALL HARDWARE SHALL BE 18-8 STAINLESS STEEL.
2. CHOOSE BOLT LENGTH TO ALLOW EXPOSURE OF AT LEAST TWO THREADS.
3. BACK TO BACK LUG CONNECTIONS ARE ACCEPTABLE WHEN BONDED TO A GROUND BAR OR STEEL OBJECT.
4. AT CONNECTIONS MADE TO STEEL OR ANY OTHER DISSIMILAR METALS, A DRAGON TOOTH WASHER SHALL BE USED 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. PENNTOX OR EQUAL ANTI-OXIDATION COMPOUND SHALL BE USED AT ALL COPPER TO ALUMINUM CONNECTIONS.

GROUND LUG INSTALLATION DETAIL

2
G-5

SCALE: N.T.S.

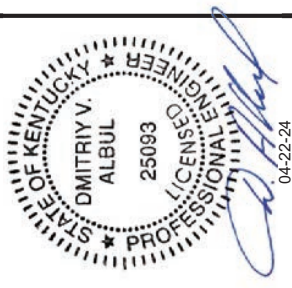


OVP GROUND ASSEMBLY (OGA)

3
G-5

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

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CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

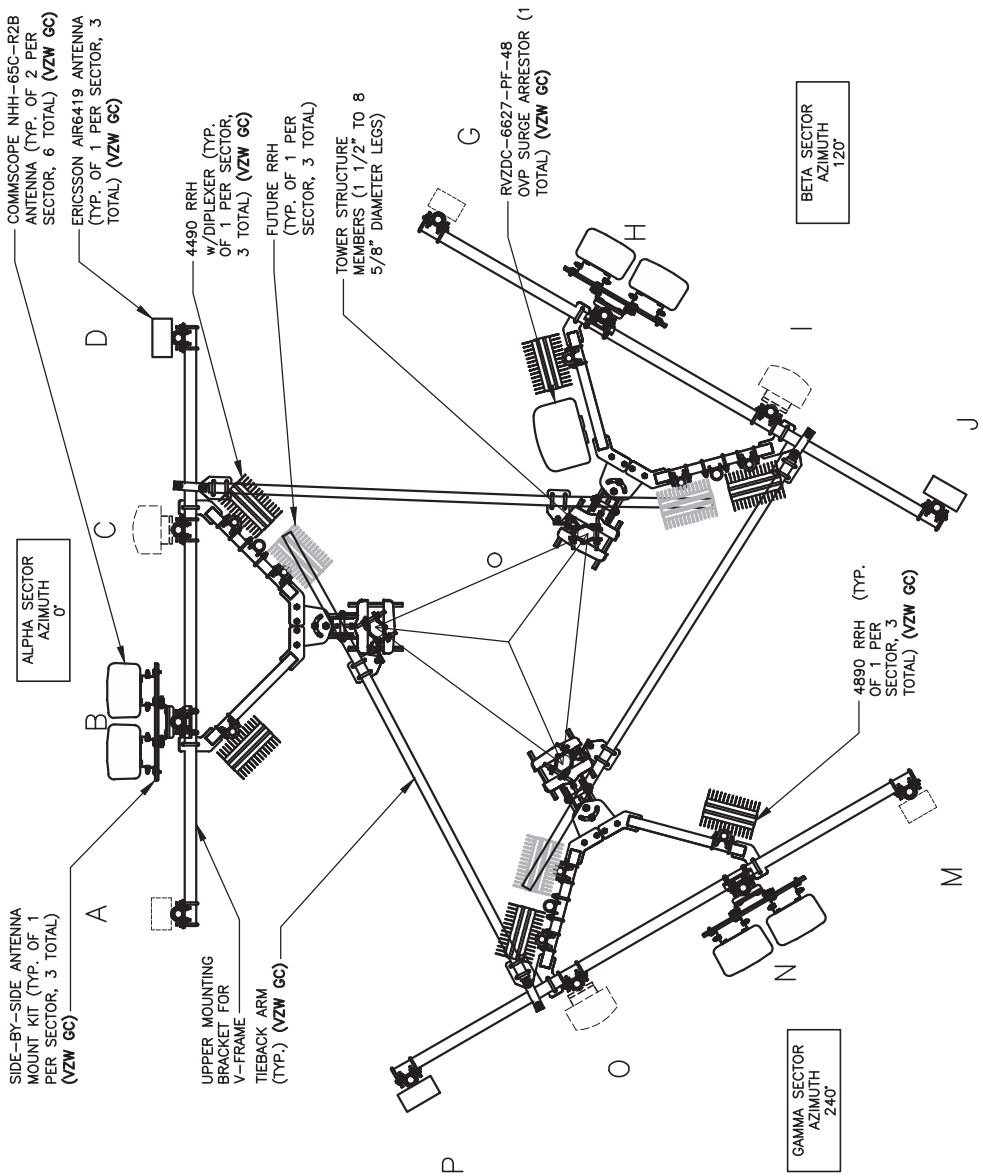
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725009

SITE NAME:
CK BLACK GNAT

PID NUMBER: 16735940
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CHECKED BY: PL
DATE: 09.23.23

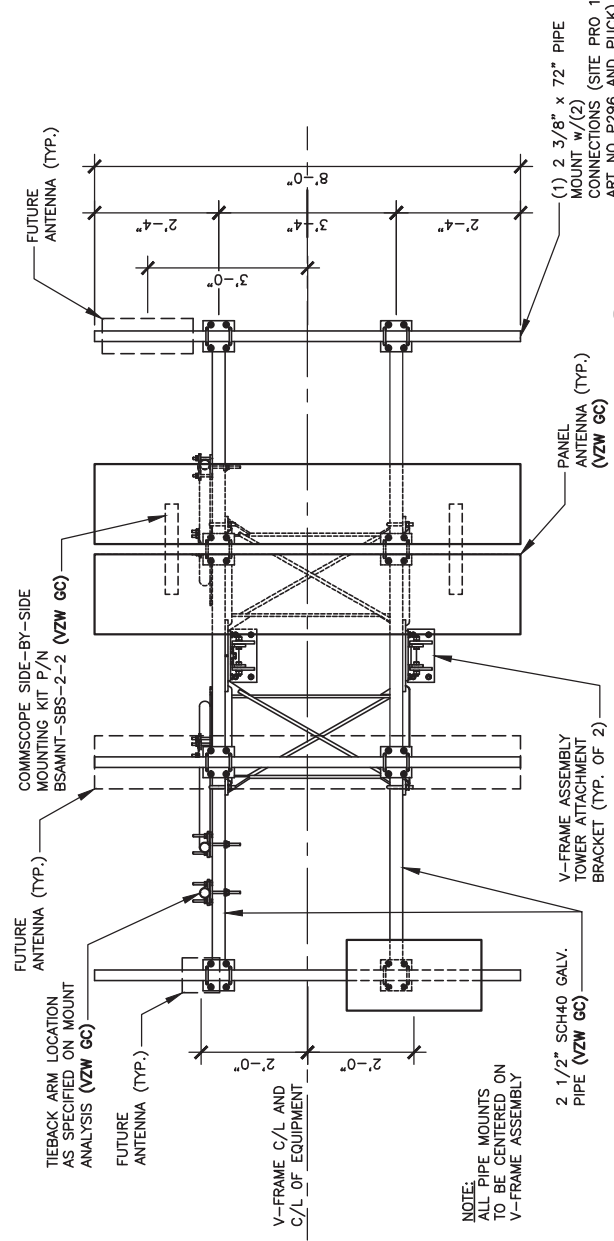
SHEET TITLE:
**ANTENNA PLAN AND
DETAILS (REFERENCE
ONLY)**

SHEET NUMBER:
RF-1



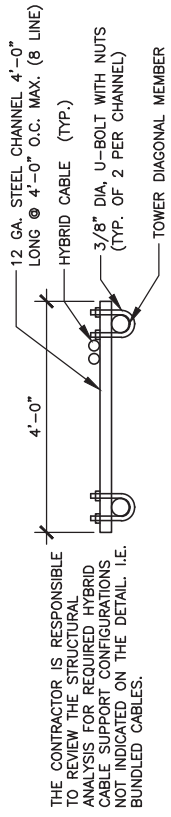
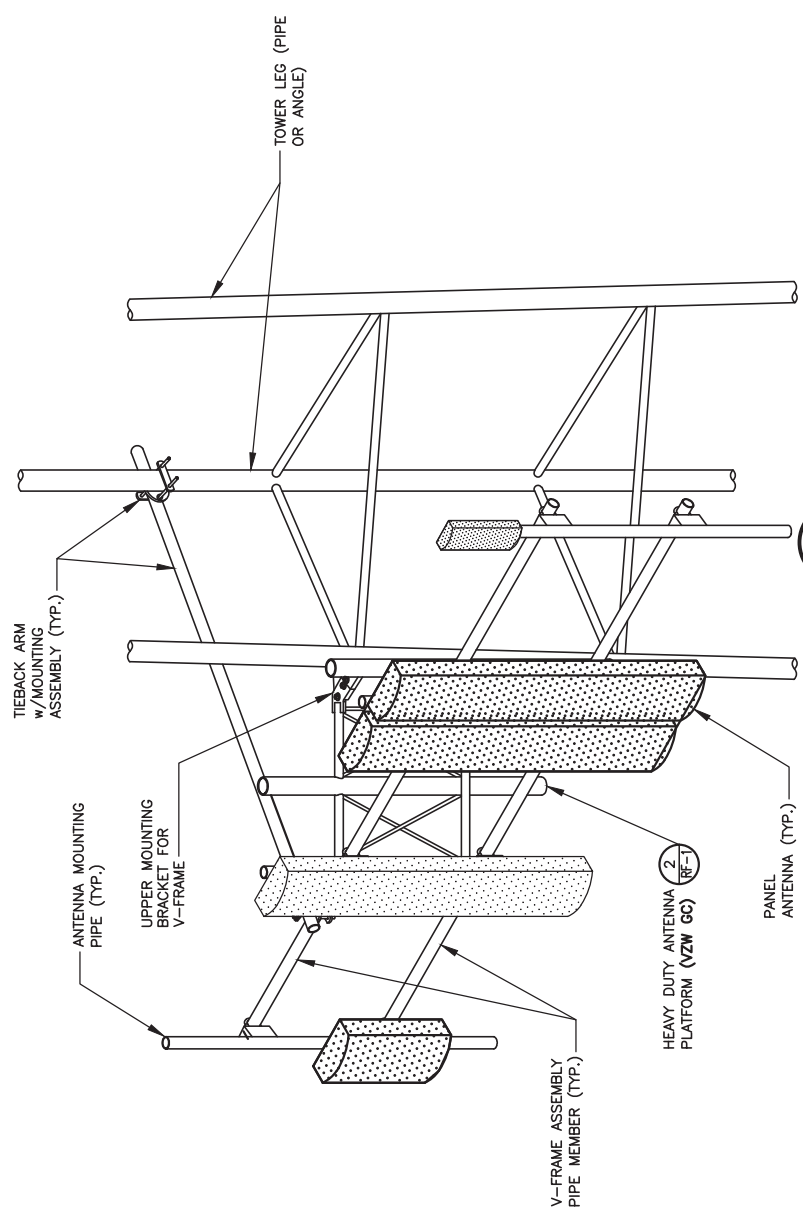
NOTE:
FINAL ANTENNA LEVEL PLAN AND PASSING MOUNT ANALYSIS MUST MATCH. NOTIFY VZW CONSTRUCTION MANAGER IF DISCREPANCY EXISTS.

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



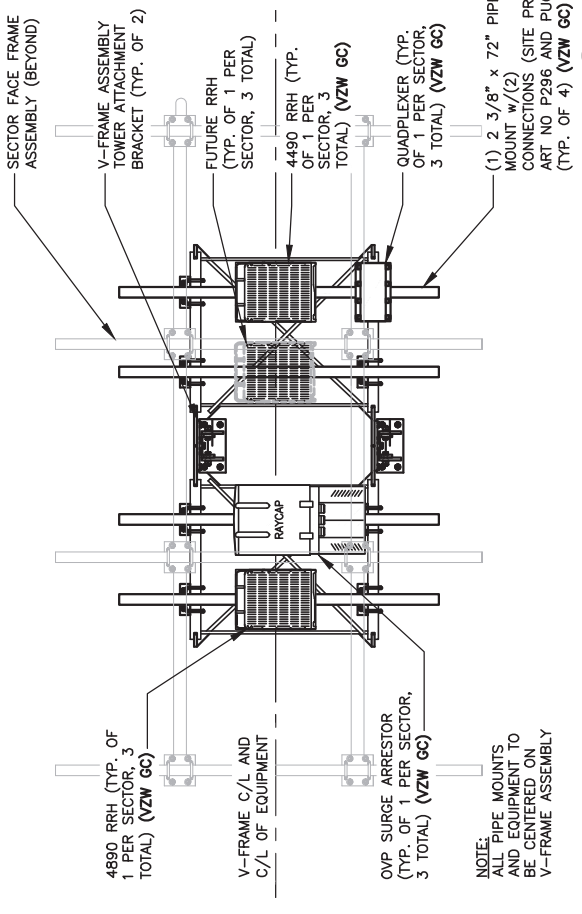
NOTE:
ALL PIPE MOUNTS TO BE CENTERED ON V-FRAME ASSEMBLY

ANTENNA MOUNT - FRONT VIEW
SCALE: N.T.S. (BY VZW GC)



ANTENNA AND HYBRID CABLES
CONTRACTOR MAY SUBSTITUTE AN ALTERNATE METHOD TO SUPPORT THE HYBRID CABLES, BUT SHALL SUBMIT DETAILING OF THE ALTERNATE METHOD TO STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO PROCEEDING WITH THE INSTALLATION OF THE CABLES.

HYBRID CABLE SUPPORT DETAIL



NOTE:
ALL PIPE MOUNTS AND EQUIPMENT TO BE CENTERED ON V-FRAME ASSEMBLY

ANTENNA MOUNT - REAR VIEW (FLATTENED)
SCALE: N.T.S. (BY VZW GC)

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.
 - AT ANTENNAS
 - 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\"/>

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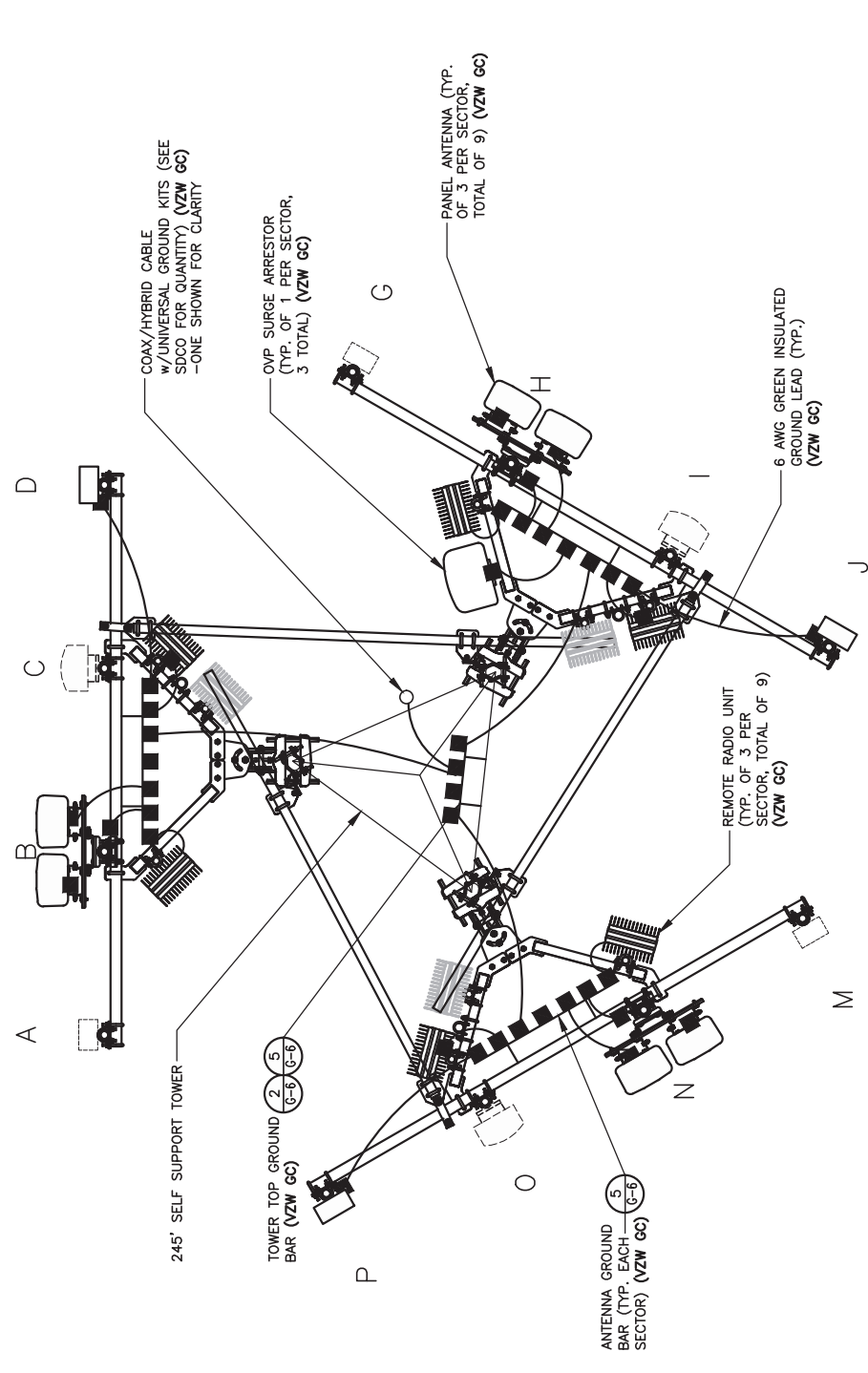
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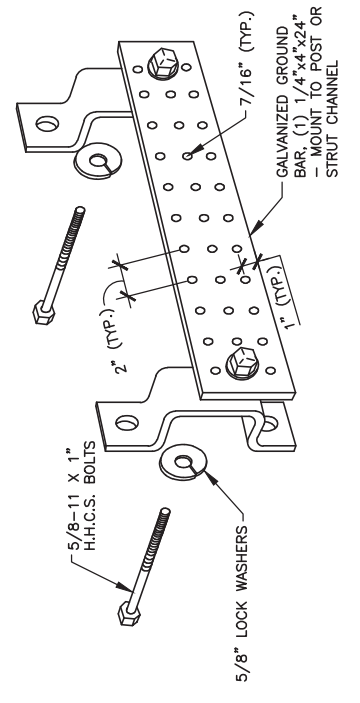
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DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
GROUNDING DETAILS

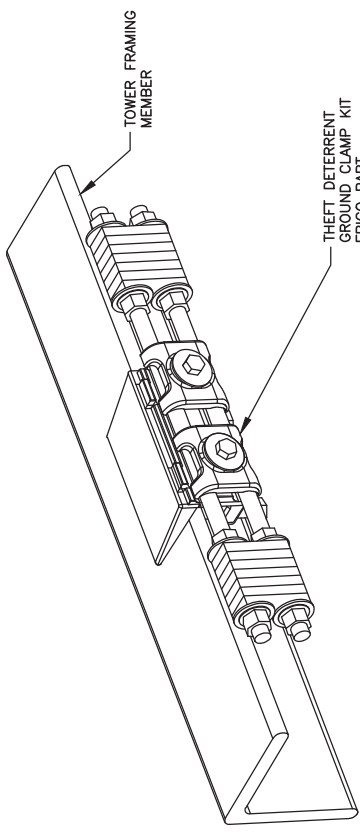
SHEET NUMBER:
G-6



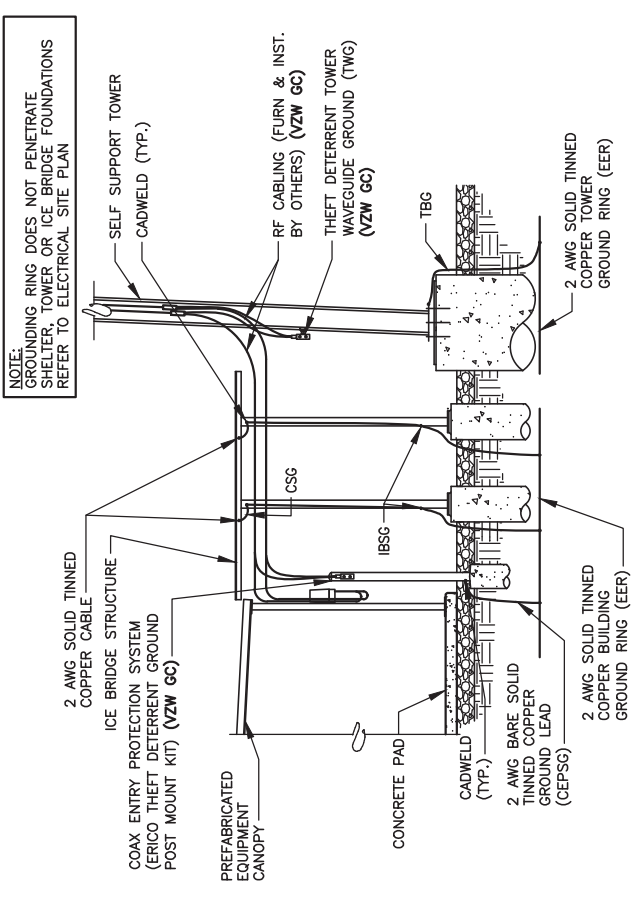
ANTENNA LEVEL GROUNDING PLAN
SCALE: N.T.S.



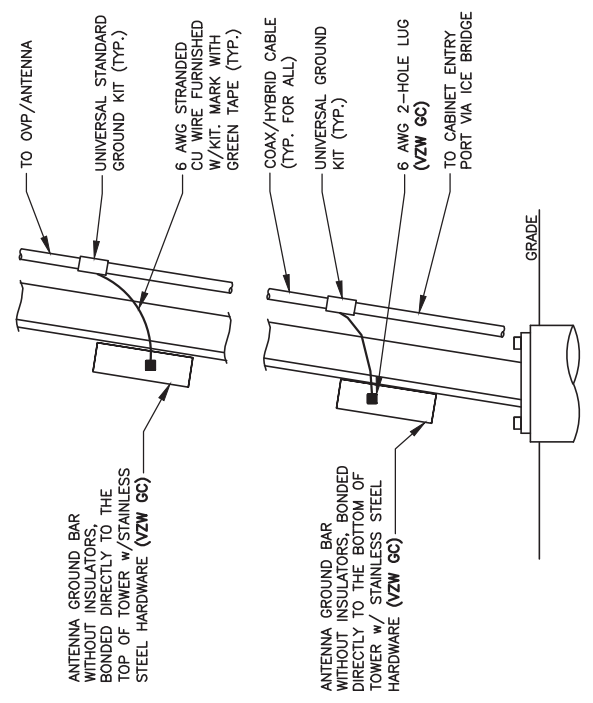
ANTENNA & TOWER TOP GROUND BAR
SCALE: N.T.S.
(BY VZW GC)



TOWER BOTTOM GROUND ASSEMBLY
SCALE: N.T.S.
(BY VZW GC)



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)

ANTENNA CABLE GROUNDING INSTALLATION DETAIL
SCALE: N.T.S.



49030 Pontiac Trail, Suite 100
Wixom, Michigan 48393
PHONE: (248) 705-9212

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CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

PID NUMBER: 16735940
DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
GENERATOR SPECIFICATIONS (REFERENCE ONLY)

SHEET NUMBER:
REF-1
MK PWD & CHMPY REV 3 FINAL 10/16/23

0J7500E

RECOMMENDED ELECTRICAL STUB-UPS (SEE DETAILED VIEW & TOP VIEW)

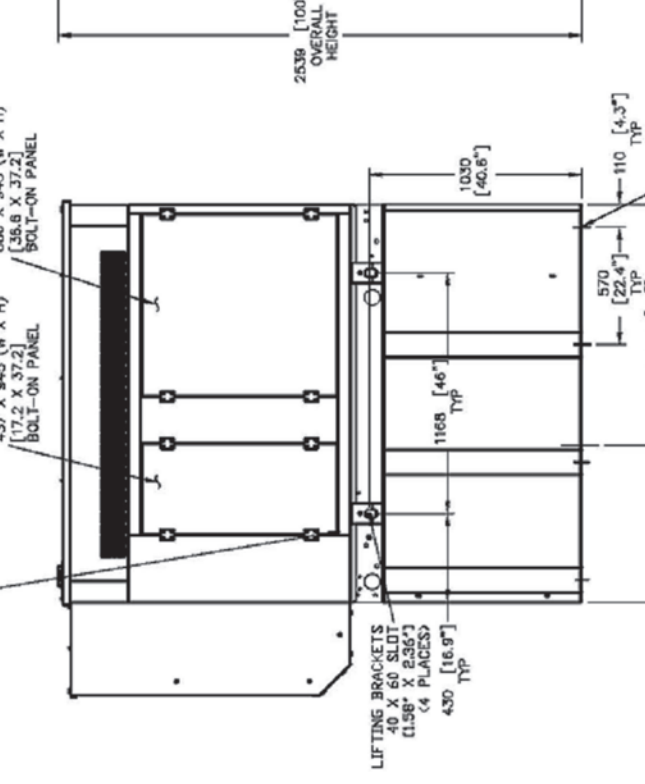
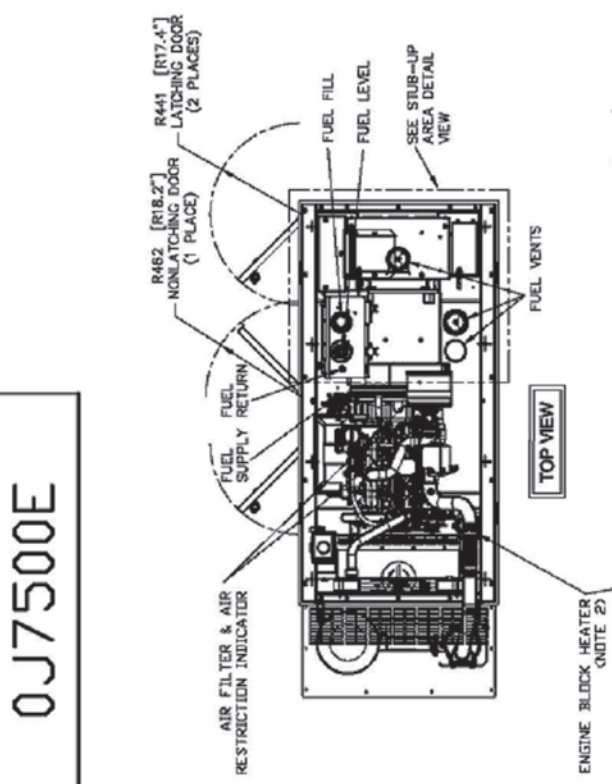
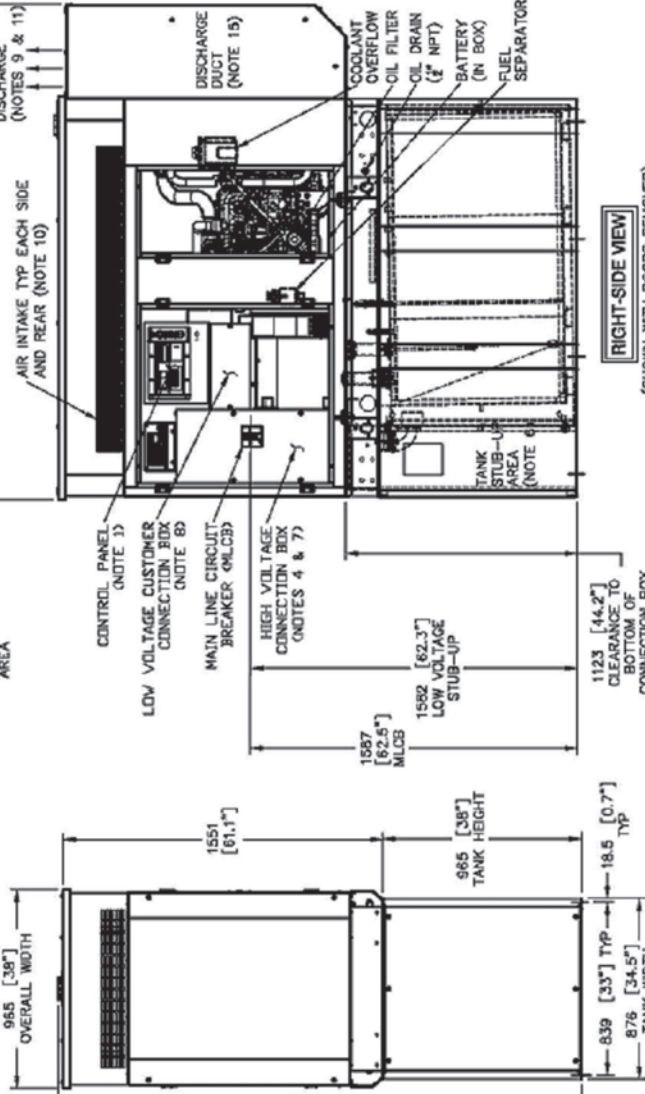
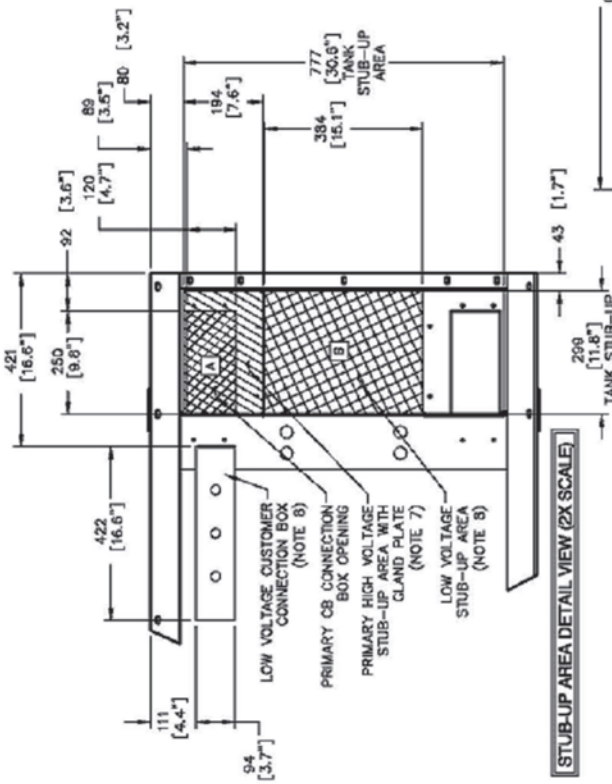
DESCRIPTION	INSIDE BASE
HIGH VOLTAGE STUB-UP AREA 1) AC LOAD LEAD CONDUIT AREA. 2) 120/240 VAC FROM UTILITY (BY OTHERS)	A
LOW VOLTAGE STUB-UP AREA 1) TRANSFER SWITCH/COMMUNICATIONS CONDUITS. START MUST NOT BE RUN IN CONDUIT WITH AC WIRING. (SEE NOTE 6)	B

NOTES:

- CONTROL PANEL INCLUDES BATTERY CHARGER WITH THREE PRONG CORD.
- 1500W 120VAC ENGINE BLOCK HEATER WITH THREE PRONG CORD.
- 12 VOLT NEGATIVE GROUND SYSTEM.
- GENERATOR MUST BE GROUNDED.
- CENTER OF GRAVITY & WEIGHT MAY SHIFT SLIGHTLY DUE TO UNIT OPTIONS.
- STUB-UPS: BASE TANK REQUIRES ALL STUB-UPS TO BE IN THE REAR TANK STUB-UP AREA.
- HIGH VOLTAGE STUB-UP AREA INCLUDES THE AC LOAD LEAD CONNECTION TO THE MAIN LINE CIRCUIT BREAKER, THE NEUTRAL CONNECTION, AND AUXILIARY 120/240V CONNECTION.
- CONNECTION POINTS FOR CONTROL WIRES. BOTTOM OF LOW VOLTAGE CUSTOMER CONNECTION BOX HAS KNOCKOUTS FOR 1/2" AND 3/4" CONDUIT FITTINGS.
- MUST ALLOW FREE FLOW OF DISCHARGE AIR AND EXHAUST. SEE SPEC SHEET FOR MINIMUM AIR LOW AND MAXIMUM RESTRICTION REQUIREMENTS.
- MUST ALLOW FREE FLOW OF INTAKE AIR. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
- GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM THE RADIATOR IS NOT RECURCULATED.
- IT IS THE RESPONSIBILITY OF THE INSTALLATION TECHNICIAN TO ENSURE THAT THE GENERATOR INSTALLATION COMPLIES WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS.
- 210 GALLON USEABLE CAPACITY BASTANK IS INCLUDED WITH GENERATOR.
- UNIT IS SHIPPED WITH FUEL SUPPLY AND RETURN LINES DISCONNECTED TO FACILITATE PRESSURE TESTING OF THE TANK. THIS HAS BEEN DONE FOR INFORMATION REGARDING CONNECTING THE FUEL SUPPLY AND RETURN LINES PRIOR TO START UP. SEE THE FUEL TANK FIELD TESTING PROCEDURE (065082) SUPPLIED IN THE TANK LOOSE VENTS KIT, WHICH IS SHIPPED WITH THIS GENERATOR.
- SEE DRAWING 0C3850 FOR DISCHARGE DUCT REMOVAL. REMOVAL OF DUCT WILL PROVIDE ACCESS TO MUFFLER FOR SERVICING.

WEIGHT DATA: (INCLUDES EMPTY FUEL TANK)
GENERATOR: 1432 KG (3157 LBS)
GENERATOR WITH WOODEN SHIPPING SKID: 1491 KG (3287 LBS)

[UNITS: mm (INCHES)]



GENERATOR POWER SYSTEMS SHALL BE THE RESPONSIBLE OF THE DRAWING WHICH IS SHOWN IN CONFORMANCE WITH THE IEC STANDARDS FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS SUPPLIED WITHOUT THE EXPRESS WRITTEN CONSENT OF GENERAC POWER SYSTEMS.

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INSTALL SD030

DIESEL 2.4L G16

L2A Y02 SSM

210 GAL BASE TANK

ISSUE DATE: 05/21/14

GENERAC POWER SYSTEMS

Waukesha
P.O. BOX 8
WAUKESHA, WIS. 53187

FILE NAME: 0J7500E.DWG SIZE: B

SCALE: 1 = 30 FIRST USE: CO 1725150 REV

DWG NO.: **0J7500E**

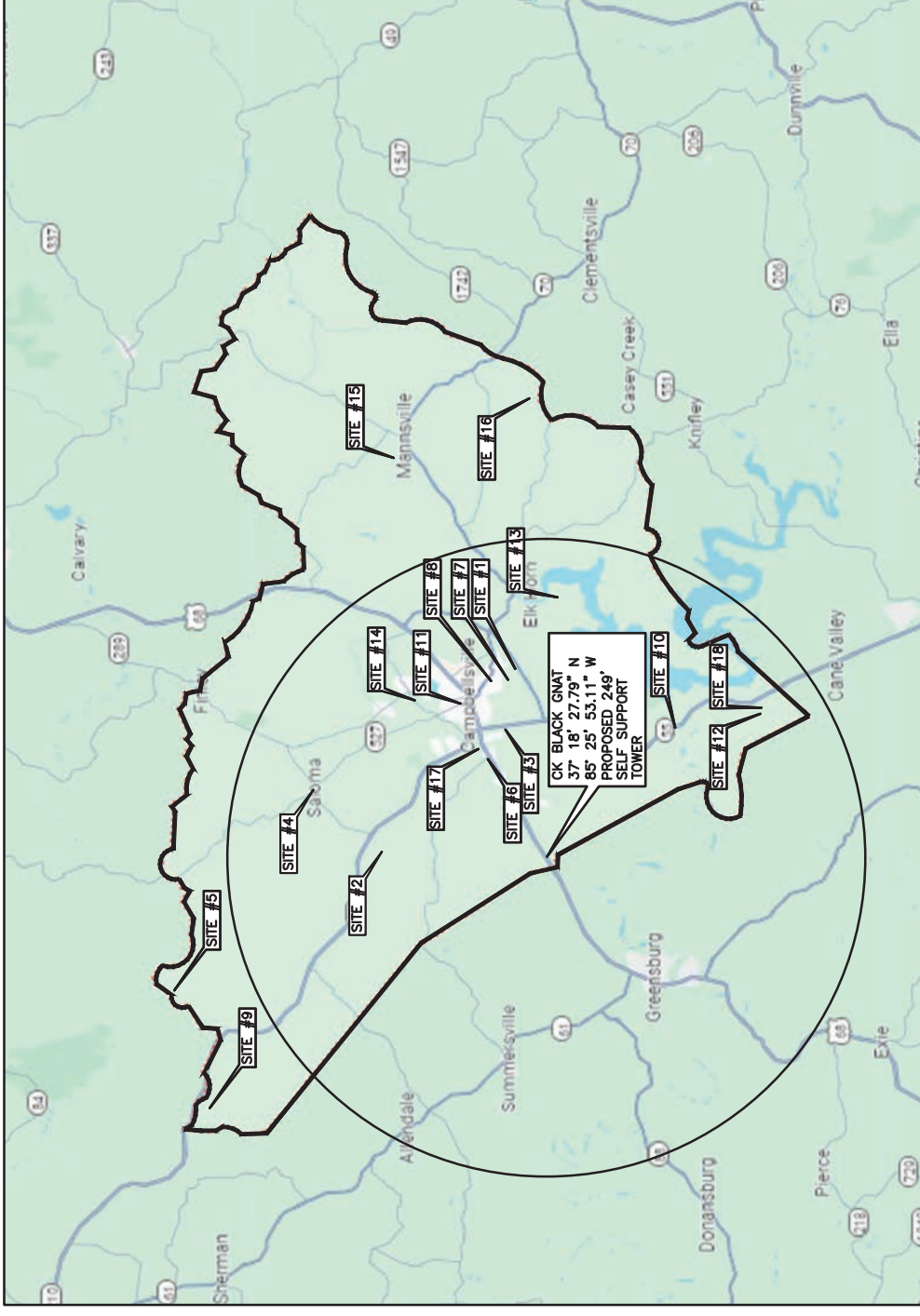
REV: **A**

INSTALLATION DRAWING

KENTUCKY CELCO
PARTNERSHIP D/B/A

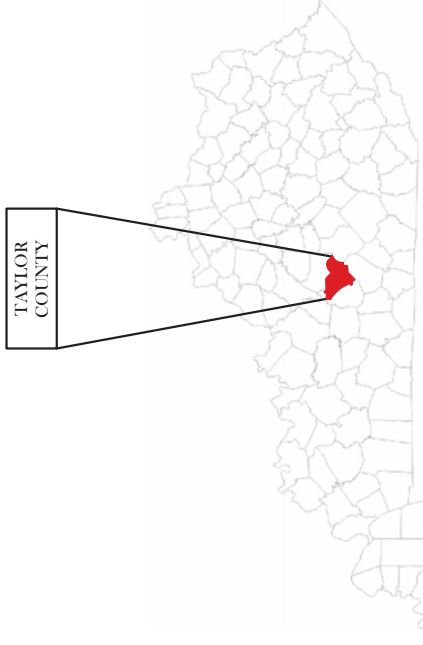


CITY OF CAMPBELLSVILLE
TAYLOR COUNTY, KENTUCKY
VERIZON WIRELESS SITE CK BLACK
GNAT
TOWER LOCATION EXHIBIT



MAP NOT TO SCALE

- SITE#1: FCC# 1042222, GLOBAL TOWER, LLC. THROUGH AMERICAN TOWERS, LLC 37° 19' 24.0\"/>
- SITE#2: FCC# 1043056, CELCO PARTNERSHIP 37° 23' 00.2\"/>
- SITE#3: FCC# 1043442, CITY OF CAMPBELLSVILLE 37° 19' 38.0\"/>
- SITE#4: FCC# 1044280, TENNESSEE GAS COMPANY LLC 37° 24' 49.0\"/>
- SITE#5: FCC# 1044516, EAST KENTUCKY POWER COOPERATIVE, INC 37° 28' 32.2\"/>
- SITE#6: FCC# 1046182, FIRST CORBIN REALTY, LLC 37° 20' 07.0\"/>
- SITE#7: FCC# 1214285, CELCO PARTNERSHIP 37° 19' 34.2\"/>
- SITE#8: FCC# 1218250, AMERICAN FAMILY ASSOCIATION 37° 19' 59.2\"/>
- SITE#9: FCC# 1227279, CELCO PARTNERSHIP 37° 27' 43.2\"/>
- SITE#10: FCC# 1241661, CELCO PARTNERSHIP 37° 14' 59.0\"/>
- SITE#11: FCC# 1242907, SBA INFRASTRUCTURES, LLC 37° 20' 53.0\"/>
- SITE#12: FCC# 1243210, SBA INFRASTRUCTURES, LLC 37° 12' 42.6\"/>
- SITE#13: FCC# 1265531, SBA MONARCH TOWERS III, LLC 37° 18' 12.2\"/>
- SITE#14: FCC# 1294366, KENTUCKY UTILITIES COMPANY 37° 22' 02.2\"/>
- SITE#15: FCC# 1303111, CELCO PARTNERSHIP LLC 37° 22' 33.5\"/>
- SITE#16: FCC# 1306590, CELCO PARTNERSHIP 37° 18' 55.6\"/>
- SITE#17: FCC# 1311283, CELCO PARTNERSHIP 37° 20' 19.8\"/>
- SITE#18: FCC# 1321708, TILLMAN INFRASTRUCTURE, LLC 37° 12' 40.8\"/>



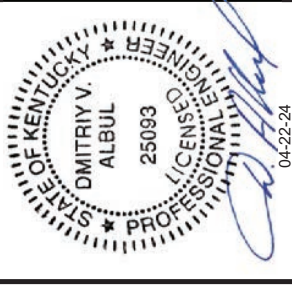
KENTUCKY

Southern Towers BTS

250 SIGNAL MOUNTAIN RD, SUITE B
CHATTANOOGA, TN 37405
C: 423-531-8300

LAB
49030 Pontiac Trail, Suite 100
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PSC MAP

SHEET NUMBER:

PSC-1
MK PWD & CHMPT REV 3 FINAL 10/16/23

Southern Towers BTS

250 SIGNAL MOUNTAIN RD, SUITE B
CHATTANOOGA, TN 37405
C: 423-531-8300



49030 Pontiac Trail, Suite 100
Wixom, Michigan 48393
PHONE: (248) 705-9212

REV.	DATE	DESCRIPTION
A	09/23/23	ISSUED FOR REVIEW
B	10/31/23	REVISED ISSUED FOR REVIEW
0	03/04/24	ISSUED FOR CONSTRUCTION
1	04/18/24	ISSUED FOR CONSTRUCTION



CK BLACK GNAT
5321 GREENSBURG RD,
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

PID NUMBER: 16735940

DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

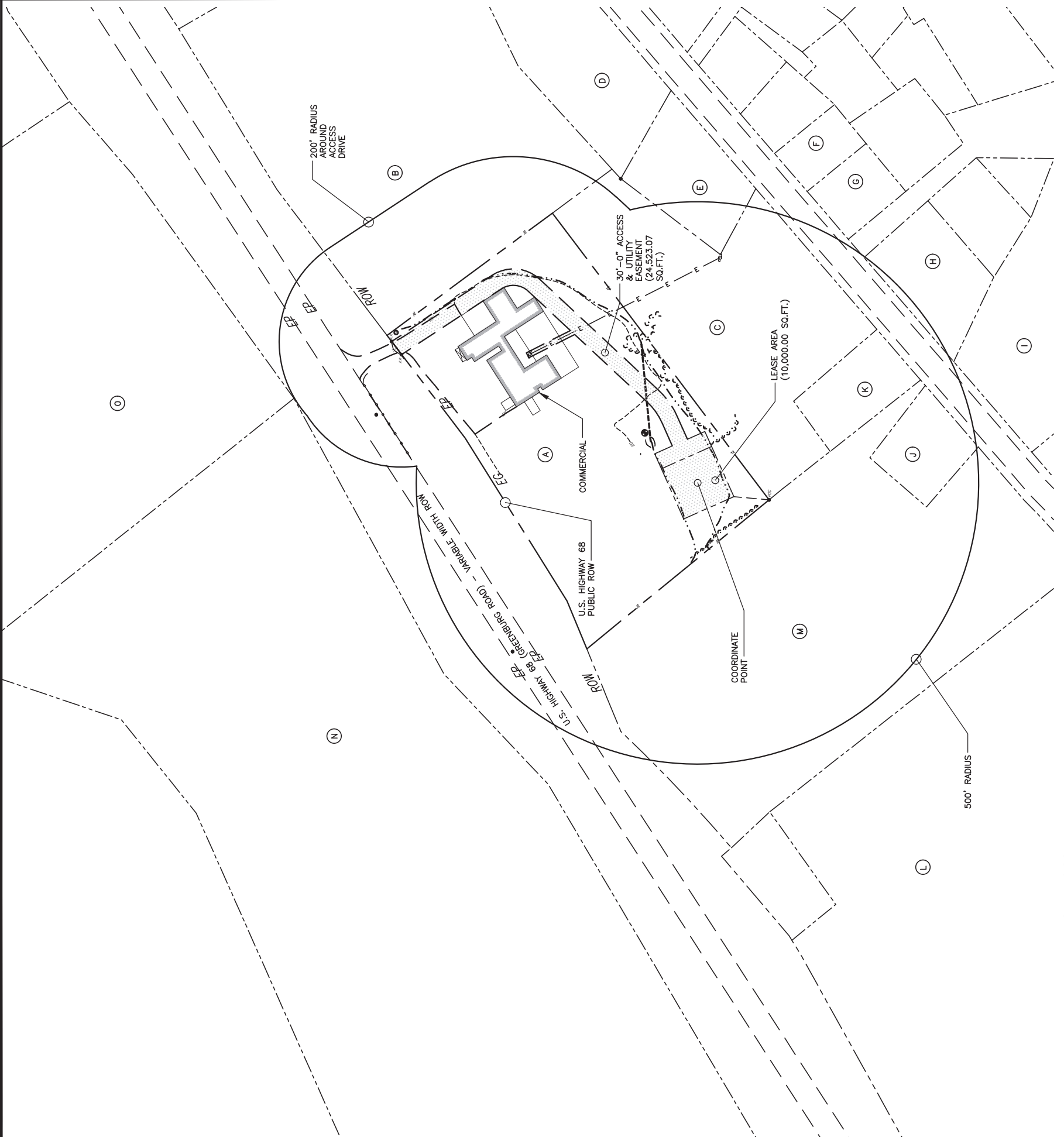
SHEET TITLE:

PSC MAP

SHEET NUMBER:

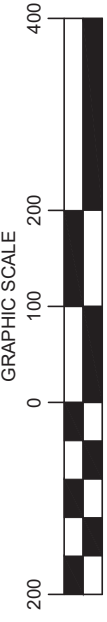
PSC-2
MK PSC & CHOPRY REV 3 FINAL 10/16/23

- Ⓐ PARCEL # 20-022-03
MILLS MOTOR SALES LLC
5321 GREENSBURG RD
CAMPBELLSVILLE, KY 42718-9436
- Ⓑ PARCEL # 20-033
PAUL BENSKIN/JUDY BENSKIN
1038 BLACK GNAT RD
CAMPBELLSVILLE, KY 42718
- Ⓒ PARCEL # 20-022-02
KAREN ANN EDWARDS
BLACK GNAT RD
CAMPBELLSVILLE, KY 42718
- Ⓓ PARCEL # 20-024
TIMMY T CURRY / PATRICIA CURRY
921 BLACK GNAT RD
CAMPBELLSVILLE, KY 42718-6847
- Ⓔ PARCEL # 20-023
CARL MILLER
GREENSBURG RD
CAMPBELLSVILLE, KY 42718
- Ⓕ PARCEL # 20-047D-01
MICHAEL EDWARDS
830 BLACK GNAT RD
CAMPBELLSVILLE, KY 42718-6822
- Ⓖ PARCEL # 20-047D-02
LEONA ARMSTRONG / DOYLE
ARMSTRONG & BUFFORD
810 BLACK GNAT RD
CAMPBELLSVILLE, KY 42718-6822
- Ⓗ PARCEL # 20-019-03
VASILJKI WILK
2235 FRED BURNS RD
RINEVILLE, KY 40162
- Ⓢ ADJACENT PARCEL # 20-002-03
SALLWW GINA LYNN
340 GRIBBENS RD
CAMPBELLSVILLE, KY 42718
- Ⓣ PARCEL # 20-047A
WILLIAM WAYNE EDWARDS /
MARY LOU EDWARDS
27 LISA LN CAMPBELLSVILLE,
KY 42718-9497
- Ⓤ PARCEL # 20-035
JON R HAWKINS & ELIZABETH PATTON
734 BLACK GNAT RD CAMPBELLSVILLE,
KY 42718-6844
- Ⓡ PARCEL # 20-022-01-01
LON R HAWKINS
728 BLACK GNAT RD
CAMPBELLSVILLE, KY 42718-6844
- Ⓢ PARCEL # 20-022-02-01
CHARLES TODD GABEHART
755 BLACK GNAT RD
CAMPBELLSVILLE, KY 42718-6844
- Ⓣ PARCEL # 20-019-02
STEVEN N OVERFELT / JASMINE S
OVERFELT
5763 GREENSBURG RD
CAMPBELLSVILLE, KY 42718-9435
- Ⓤ PARCEL # 20-022-01
JUSTIN SPENCER
5475 GREENSBURG RD
CAMPBELLSVILLE, KY 42718-9433



OVERALL SITE PLAN

SCALE: 1" = 200'



* ADJOINING LAND OWNERS LISTED ARE BASED ON PROPERTY VALUATION ADMINISTRATION ("PVA") RECORDS. ISSUED BY A REPRESENTATIVE FROM ROCKCASTLE COUNTY TO BE IN COMPLIANCE WITH ALL STATUTORY AND REGULATORY REQUIREMENTS BEFORE THE KENTUCKY PUBLIC SERVICE COMMISSION AND FOR TELECOMMUNICATION USE ONLY.



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

DATE: MARCH 14, 2024

PURCHASER: SOUTHERN TOWERS, LP

PROJECT: 245FT RTL SELF SUPPORT TOWER
BLACK GNAT, KY

FILE NUMBER: 245643

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.

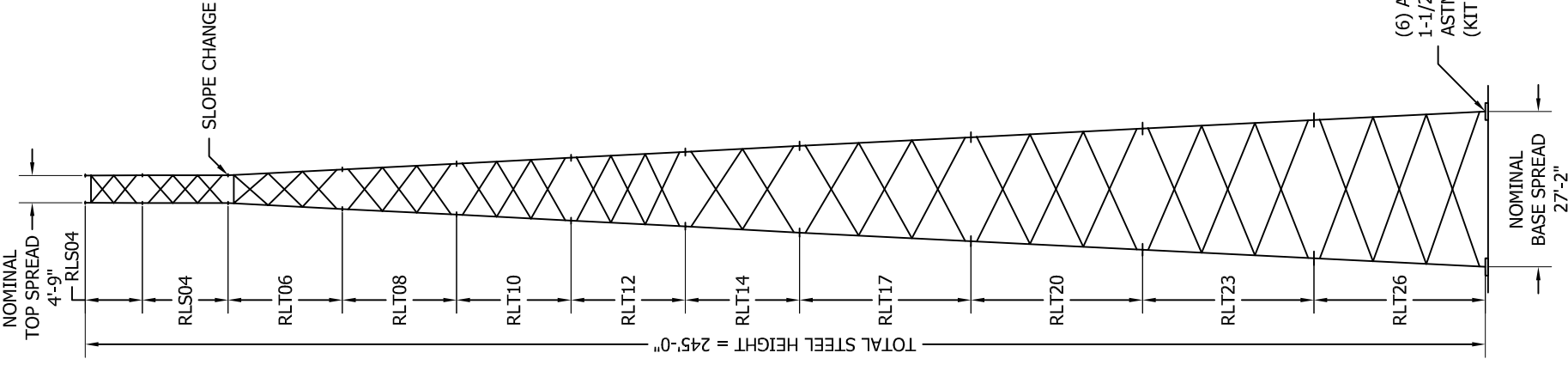
Allen Schneider

03/14/2024

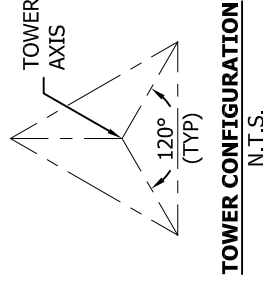


GENERAL NOTES

- 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 =	488.4 KIPS
TENSION PER LEG =	428.2 KIPS
SHEAR PER LEG =	42.6 KIPS
TOTAL SHEAR =	70.1 KIPS
TOTAL O.T.M =	10,871.0 FT-KIPS



TOWER DESIGN LOADING

DESIGN WIND LOAD PER ANSI/TIA-222-H USING THE FOLLOWING DESIGN CRITERIA:
 RISK CATEGORY: II
 BASIC WIND SPEED (NO ICE): 105 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: 785 FT
 EXPOSURE CATEGORY: C
 TOPOGRAPHIC METHOD: 1, CATEGORY: 1
 SEISMIC DESIGN PARAMETERS, Ss: 0.177, Si: 0.099, Tl: 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
240	40,000 SQ-IN [278 SQFT] MAX EPA	(12) 1-5/8"
225	30,000 SQ-IN [209 SQFT] MAX EPA	(12) 1-5/8"
210	30,000 SQ-IN [209 SQFT] MAX EPA	(12) 1-5/8"
195	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 (2)	L1 3/4x1 3/4x3/16 (1)
RLS04	PIPE 3.500x0.216	L1 3/4x1 3/4x3/16 (3)	N/A
RLT06	PIPE 4.500x0.237	L2x2x3/16 (3)	L1 3/4x1 3/4x3/16 (1)
RLT08	PIPE 5.563x0.258	L2x2x1/4 (3)	N/A
RLT10	PIPE 5.563x0.375	L2x2x1/4 (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 (2)	N/A
RLT17	PIPE 8.625x0.375	L3x3x3/16 (3)	N/A
RLT20	PIPE 8.625x0.500	L3x3x1/4 (3)	N/A
RLT23	PIPE 8.625x0.500	L3 1/2x3 1/2x1/4 (3)	N/A
RLT26	PIPE 8.625x0.500	L4x4x1/4 (3)	N/A

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.

245643

REVISIONS			
REV.	DESCRIPTION	DWN	CHK



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SOUTHERN TOWERS, LP
 DESIGN PROFILE
 245 FT RTL TOWER
 BLACK GNAT, KY

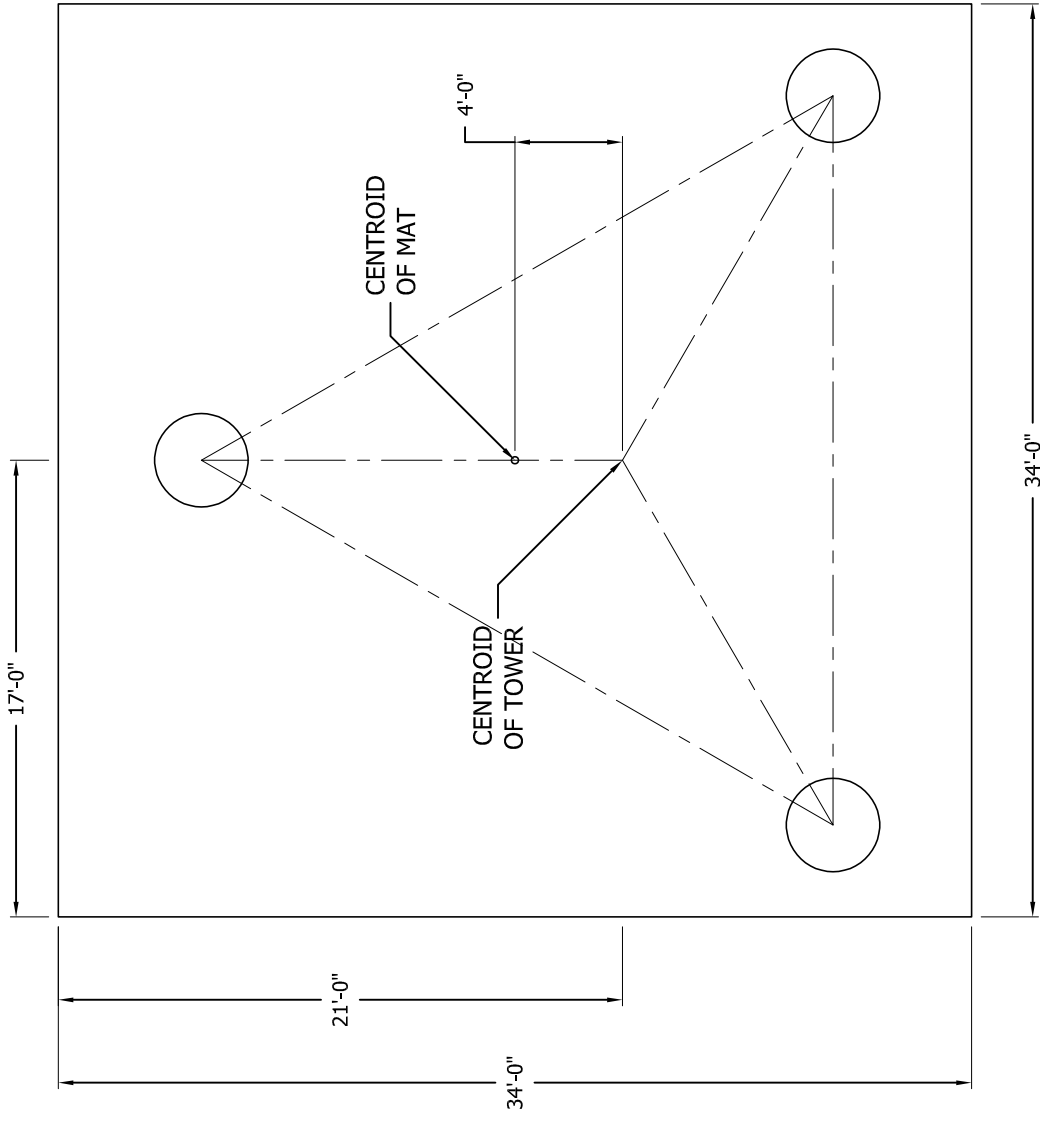
DWN:	AS	CHK'D:	SY	DATE:	03/14/2024
ENGR:	AS	SHEET #:	1 OF 1		
PRJ. ENGR:	AS	PRJ. MANGR:			

DRAWING NO:

245643-01-D1

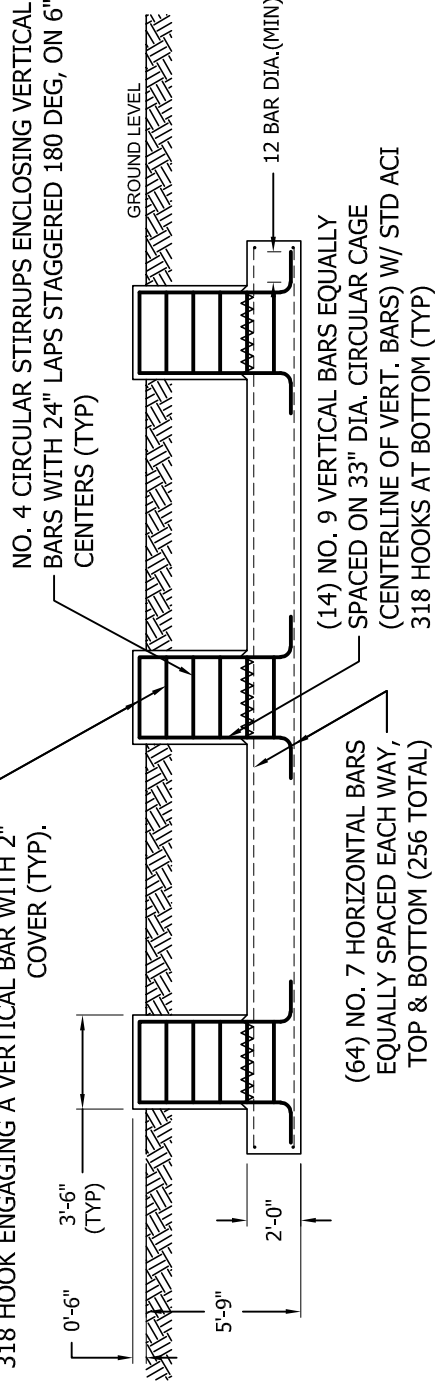
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PLAN VIEW

(2) NO. 4 CIRCULAR STIRRUPS ENCLOSING VERTICAL BARS @ 2-1/2" C-C W/ 180 DEG. STAGGERED 6" MIN LAPS TERMINATED AT EACH END WITH A STD. ACI 318 HOOK ENGAGING A VERTICAL BAR WITH 2" COVER (TYP).



ELEVATION VIEW

(64) NO. 7 HORIZONTAL BARS EQUALLY SPACED EACH WAY, TOP & BOTTOM (256 TOTAL)
 (14) NO. 9 VERTICAL BARS EQUALLY SPACED ON 33" DIA. CIRCULAR CAGE (CENTERLINE OF VERT. BARS) W/ STD ACI 318 HOOKS AT BOTTOM (TYP)

FACTORED REACTIONS

Maximum O.T.M =	10,871.0 FT-K
Total Tower Wt =	67.7 KIPS
Total Shear =	70.2 KIPS
Max. Shear/Leg =	42.6 KIPS
Max. Ten./Leg =	428.2 KIPS
Max. Comp./Leg =	488.4 KIPS

CONCRETE VOLUME

ROUND PIERS	4.5 CU.YDS
PAD	85.6 CU.YDS
TOTAL	90.2 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 = 5,730 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. **GEO24-20830-08** DATED **2/28/2024** BY **DELTA OAKS GROUP**.
- 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.

245643

REVISIONS			
REV.	DESCRIPTION	DWN	CHK APP



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

DWN:	AS	CHK'D:	SY	DATE:	03/14/2024
ENGR:	AS	SHEET #:	1 OF 1		
PRJ. ENGR:	AS	PRJ. MANGR:			

DRAWING NO:

245643-01-F1

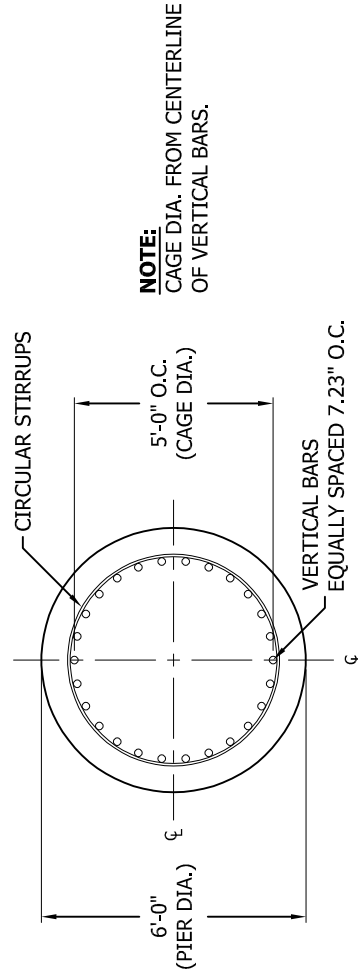
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REV.	DESCRIPTION	DWN	CHK	APP

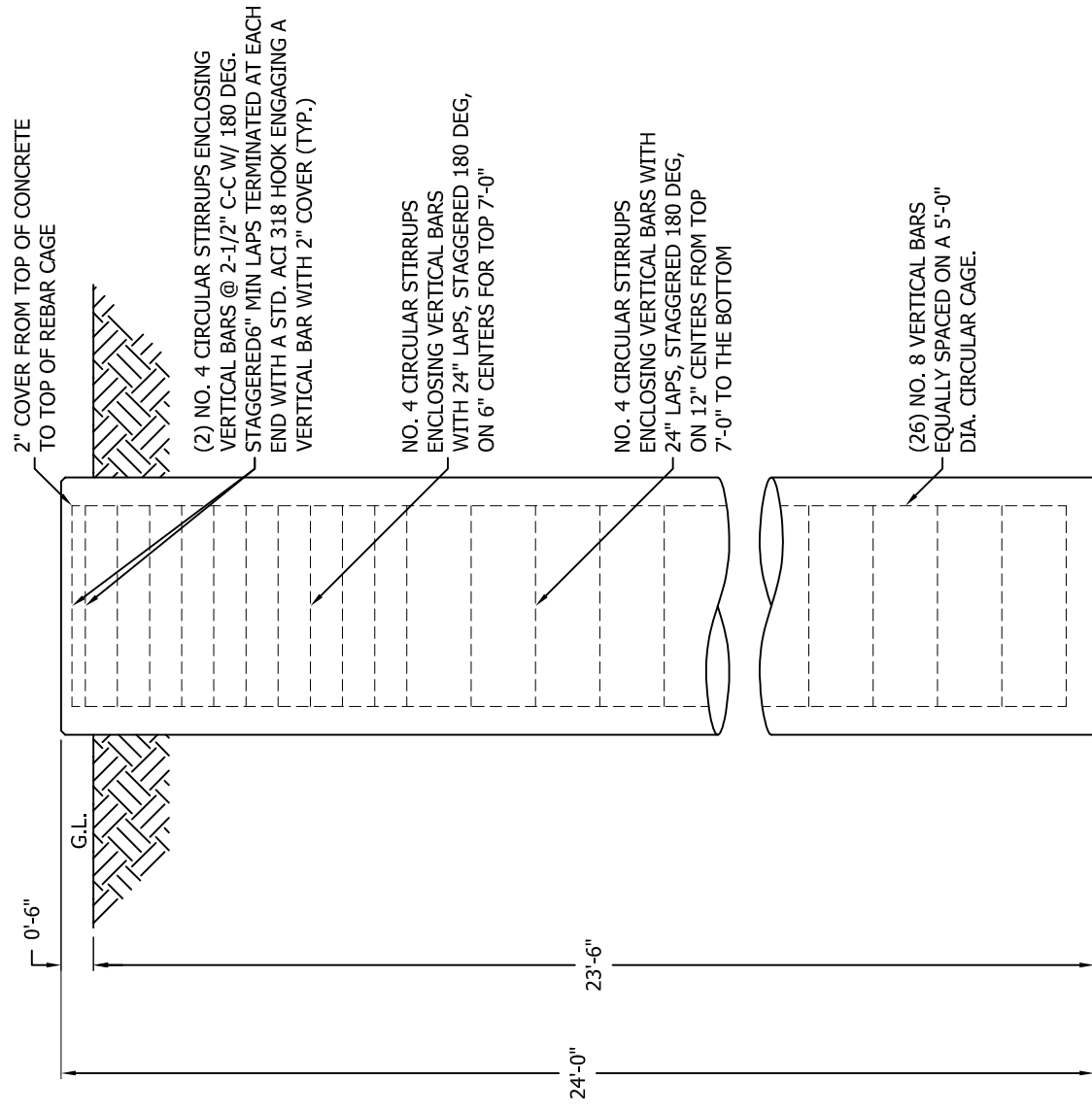
GENERAL NOTES:

- 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 3.0 FT
 - AVERAGE ULTIMATE SKIN SHEAR FOR UPLIFT: 3.0 FT TO 6.0 FT DEPTH = 490 PSF, AND 6.0 FT TO 8.0 FT DEPTH = 930 PSF, AND 8.0 FT TO 13.0 FT DEPTH = 820 PSF, AND 13.0 FT TO 18.6 FT DEPTH = 990 PSF, AND 18.6 FT TO 21.2 FT DEPTH = 2400 PSF, AND 21.2 FT TO 23.5 FT DEPTH = 2040 PSF.
 - AVERAGE ULTIMATE SKIN SHEAR FOR DOWNLOAD: 3.0 FT TO 6.0 FT DEPTH = 490 PSF, AND 6.0 FT TO 8.0 FT DEPTH = 930 PSF, AND 8.0 FT TO 13.0 FT DEPTH = 820 PSF, AND 13.0 FT TO 18.6 FT DEPTH = 990 PSF, AND 18.6 FT TO 21.2 FT DEPTH = 2400 PSF, AND 21.2 FT TO 23.5 FT DEPTH = 2040 PSF.
 - ULTIMATE NET END BEARING AT 23.5 FT = 35.37 KSF.
 - GROUNDWATER TABLE BELOW FOUNDATION DEPTH.
- WORK SHALL BE IN ACCORDANCE WITH 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.
- 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 ACI 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. **GE024-20830-08** DATED **02/28/2024** BY **DELTA OAKS GROUP**.
- 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.



PLAN VIEW

N.T.S.



ELEVATION VIEW

N.T.S.

FACTORED REACTIONS/LEG

DOWNLOAD =	488.4 KIPS
UPLIFT =	428.2 KIPS
SHEAR =	42.6 KIPS

VOLUME OF CONCRETE

(1) FOUNDATION	25.1 CU. YDS
(3) FOUNDATIONS	75.3 CU. YDS



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SOUTHERN TOWERS, LP
DRILLED PIER
FOUNDATION DETAILS
BLACK GNAT, KY

DWN:	AS	CHK'D:	SY	DATE:	03/14/2024
ENGR:	AS	SHEET #:	1 OF 1		
PRJ. ENGR:	AS	PRJ. MANGR:			

DRAWING NO:

245643-01-F2

REV:

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Contract: 245643
Project: 245 FT RTL TOWER
Date and Time: 3/14/2024 2:44:36 PM

Revision: 0
Site: BLACK GNAT- KY
Engineer: AS

ENGINEERING
CHECKED BY: SY
03/14/2024

Section A: PROJECT DATA

Project Title: 245 FT RTL TOWER
Customer Name: SOUTHERN TOWERS- LP
Site: BLACK GNAT- KY
Contract No.: 245643
Revision: 0
Engineer: AS
Date: Mar 14 2024
Time: 02:43:26 PM

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: 785.00 (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): 105.00(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

EARTHQUAKE CONDITIONS:
Site class definition: D
Spectral response acceleration Ss: 0.177
Spectral response acceleration Sl: 0.099
Long-period transition period TL: 12.000



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Contract: 245643

Project: 245 FT RTL TOWER

Date and Time: 3/14/2024 2:44:36 PM

Revision: 0

Site: BLACK GNAT- KY

Engineer: AS

Accelaration-based site coefficient Fa: 1.600
Velocity-based site coefficient Fv: 2.400
Design spectral response acceleration Sds: 0.189
Design spectral response acceleration Sd1: 0.158
Seismic analysis method: 1
Fundamental frequency of structure f1: 0.787
Total seismic shear Vs (Kips) : 2.81

Analysis performed using: TowerSoft Finite Element Analysis Program

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Contract: 245643

Project: 245 FT RTL TOWER

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Revision: 0

Site: BLACK GNAT- 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	245.00	290.00	11	325.97	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. Database (lbs)		
11	RLS04*	235.00	245.00	58	57	217	186	0	0	403	0	0.787
10	RLS04*	220.00	235.00	58	58	427	330	0	0	757	0	0.787
9	RLT06*	200.00	220.00	83	58	810	524	0	0	1334	0	0.787
8	RLT08	180.00	200.00	107	83	1103	747	0	0	1850	0	0.787
7	RLT10	160.00	180.00	132	107	1565	864	0	0	2430	0	0.787
6	RLT12*	140.00	160.00	156	132	1714	948	0	0	2662	0	0.787
5	RLT14	120.00	140.00	182	156	2151	1051	0	0	3201	0	0.787
4	RLT17	90.00	120.00	218	182	3726	1622	0	0	5348	0	0.787
3	RLT20	60.00	90.00	254	218	4896	2432	0	0	7329	0	0.787
2	RLT23	30.00	60.00	290	254	4893	3207	0	0	8100	0	0.787
1	RLT26	0.00	30.00	326	290	4893	4094	0	0	8987	0	0.787
Total Mass:						26395	16005	0	0	42400	0	

PANEL GEOMETRY

Sec#	Pnl#	Type	SecBrcg	Mid. Horiz Continuous	Horiz	Height (ft)	Bottom Width (in)	Top Width (in)	Plan Bracing	Hip Bracing	Gusset Plate Area (ft^2)	Gusset Plate Weight (lbs)
11	2	X	(None)		Yes	5.0	57.3	57.0	(None)	(None)	0.000	0.00
11	1	X	(None)		None	5.0	57.5	57.3	(None)	(None)	0.000	0.00
10	3	X	(None)		None	5.0	57.8	57.5	(None)	(None)	0.000	0.00
10	2	X	(None)		None	5.0	58.1	57.8	(None)	(None)	0.000	0.00
10	1	X	(None)		None	5.0	58.4	58.1	(None)	(None)	0.000	0.00
9	3	X	(None)		Yes	6.7	66.7	58.4	(None)	(None)	0.000	0.00
9	2	X	(None)		None	6.7	75.0	66.7	(None)	(None)	0.000	0.00
9	1	X	(None)		None	6.7	83.3	75.0	(None)	(None)	0.000	0.00
8	3	X	(None)		None	6.7	91.3	83.3	(None)	(None)	0.300	0.30
8	2	X	(None)		None	6.7	99.3	91.3	(None)	(None)	0.300	0.30
8	1	X	(None)		None	6.7	107.3	99.3	(None)	(None)	0.300	0.30
7	3	X	(None)		None	6.7	115.6	107.3	(None)	(None)	0.300	0.30
7	2	X	(None)		None	6.7	123.9	115.6	(None)	(None)	0.300	0.30
7	1	X	(None)		None	6.7	132.2	123.9	(None)	(None)	0.300	0.30
6	3	X	(None)		None	6.7	140.2	132.2	(None)	(None)	0.000	0.00
6	2	X	(None)		None	6.7	148.2	140.2	(None)	(None)	0.000	0.00
6	1	X	(None)		None	6.7	156.2	148.2	(None)	(None)	0.000	0.00
5	2	X	(None)		None	10.0	169.1	156.2	(None)	(None)	0.000	0.00
5	1	X	(None)		None	10.0	182.0	169.1	(None)	(None)	0.000	0.00
4	3	X	(None)		None	10.0	194.0	182.0	(None)	(None)	0.300	0.30
4	2	X	(None)		None	10.0	206.0	194.0	(None)	(None)	0.300	0.30
4	1	X	(None)		None	10.0	218.0	206.0	(None)	(None)	0.300	0.30
3	3	X	(None)		None	10.0	230.0	218.0	(None)	(None)	0.300	0.30
3	2	X	(None)		None	10.0	242.0	230.0	(None)	(None)	0.300	0.30
3	1	X	(None)		None	10.0	254.0	242.0	(None)	(None)	0.300	0.30
2	3	X	(None)		None	10.0	266.0	254.0	(None)	(None)	0.000	0.00
2	2	X	(None)		None	10.0	278.0	266.0	(None)	(None)	0.000	0.00
2	1	X	(None)		None	10.0	290.0	278.0	(None)	(None)	0.000	0.00
1	3	X	(None)		None	10.0	302.0	290.0	(None)	(None)	0.000	0.00
1	2	X	(None)		None	10.0	314.0	302.0	(None)	(None)	0.000	0.00
1	1	X	(None)		None	10.0	326.0	314.0	(None)	(None)	0.000	0.00

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Project: 245 FT RTL TOWER

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Revision: 0

Site: BLACK GNAT- 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.
11/2	Leg	PIPE 2.875x0.203	A500	gr.CSTension	4-0.750	A325X						
11/2	Diag	L1 3/4x1 3/4x1/8	A572	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
11/2	Horiz	L1 3/4x1 3/4x3/16	A572	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
11/1	Leg	PIPE 2.875x0.203	A500	gr.CSTension	4-0.750	A325X						
11/1	Diag	L1 3/4x1 3/4x1/8	A572	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
10/3	Leg	PIPE 3.500x0.216	A500	gr.CSTension	5-0.875	A325X						
10/3	Diag	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 3.500x0.216	A500	gr.CSTension	5-0.875	A325X						
10/2	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
10/1	Leg	PIPE 3.500x0.216	A500	gr.CSTension	5-0.875	A325X						
10/1	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
9/3	Leg	PIPE 4.500x0.237	A500	gr.CSTension	5-1.000	A325X						
9/3	Diag	L2x2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
9/3	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
9/2	Leg	PIPE 4.500x0.237	A500	gr.CSTension	5-1.000	A325X						
9/2	Diag	L2x2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
9/1	Leg	PIPE 4.500x0.237	A500	gr.CSTension	5-1.000	A325X						
9/1	Diag	L2x2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
8/3	Leg	PIPE 5.563x0.258	A500	gr.CSTension	5-1.000	A325X						
8/3	Diag	L2x2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
8/2	Leg	PIPE 5.563x0.258	A500	gr.CSTension	5-1.000	A325X						
8/2	Diag	L2x2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
8/1	Leg	PIPE 5.563x0.258	A500	gr.CSTension	5-1.000	A325X						
8/1	Diag	L2x2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
7/3	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
7/3	Diag	L2x2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
7/2	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
7/2	Diag	L2x2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
7/1	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
7/1	Diag	L2x2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
6/3	Leg	PIPE 6.625x0.340	A500	gr.CSTension	6-1.000	A325X						

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



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Contract: 245643

Project: 245 FT RTL TOWER

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Revision: 0

Site: BLACK GNAT- KY

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	245.00	3/8 CABLE	17.00	0.00	0.00	1	1	Yes		
2	0.00	245.00	RC0.75-Cnd	13.67	60.00	5.00	1	1	No		
3	0.00	240.00	TX Ladder	9.05	60.00	30.00	1	1	No		
4	210.00	240.00	LDF7P-50A	1.97	60.00	30.00	12	2	No		
5	0.00	225.00	TX Ladder	9.05	180.00	150.00	1	1	No		
6	195.00	225.00	LDF7P-50A	2.48	180.00	150.00	12	2	No		
7	0.00	210.00	LDF7P-50A	9.05	60.00	30.00	24	2	No		
8	0.00	195.00	LDF7P-50A	9.05	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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Contract: 245643

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Revision: 0

Site: BLACK GNAT- KY

Engineer: AS

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	245.00	1.00	0.0	0.0	0.00		
2	40,000 SQ-IN MAX EPA	240.00	0.00	0.0	0.0	0.00		
3	30,000 SQ-IN MAX EPA	225.00	0.00	0.0	0.0	0.00		
4	30,000 SQ-IN MAX EPA	210.00	0.00	0.0	0.0	0.00		
5	30,000 SQ-IN MAX EPA	195.00	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)
96	245.0	13.5	13.0	-0.1	0.61	0.59	-0.01
93	240.0	12.9	12.4	-0.1	0.63	0.61	0.02
90	235.0	12.2	11.8	-0.1	0.61	0.59	0.01
87	230.0	11.6	11.2	-0.1	0.60	0.59	0.01
84	225.0	11.0	10.5	-0.1	0.58	0.57	0.00
81	220.0	10.4	9.9	-0.1	0.56	0.55	-0.01
78	213.3	9.6	9.2	-0.1	0.52	0.51	0.02
75	206.7	8.8	8.5	-0.1	0.51	0.49	0.01
72	200.0	8.1	7.8	-0.1	0.45	0.44	0.02
69	193.3	7.5	7.2	-0.1	0.45	0.44	0.02
66	186.7	6.9	6.5	-0.1	0.40	0.38	-0.02
63	180.0	6.3	6.0	-0.1	0.39	0.38	0.01
60	173.3	5.8	5.5	-0.1	0.35	0.34	-0.02
57	166.7	5.3	5.0	-0.1	0.35	0.33	0.01
54	160.0	4.8	4.5	-0.1	0.30	0.29	-0.01
51	153.3	4.4	4.1	-0.1	0.30	0.29	0.01
48	146.7	3.9	3.7	-0.1	0.27	0.25	-0.01
45	140.0	3.6	3.4	-0.1	0.25	0.24	0.01
42	130.0	3.0	2.9	-0.1	0.22	0.20	-0.01
39	120.0	2.6	2.4	-0.1	0.20	0.19	0.00
36	110.0	2.2	2.0	-0.1	0.18	0.17	-0.01
33	100.0	1.8	1.7	-0.1	0.16	0.15	0.00
30	90.0	1.5	1.4	-0.1	0.13	0.13	-0.01
27	80.0	1.2	1.1	0.0	0.13	0.12	0.00
24	70.0	0.9	0.8	0.0	0.11	0.10	0.00
21	60.0	0.7	0.6	0.0	0.10	0.09	0.00
18	50.0	0.5	0.5	0.0	0.07	0.07	0.00
15	40.0	0.3	0.3	0.0	0.07	0.06	0.00
12	30.0	0.2	0.2	0.0	0.04	0.04	0.00
9	20.0	0.1	0.1	0.0	0.04	0.03	0.00
6	10.0	0.0	0.0	0.0	0.02	-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)			
11	2	240.00	Leg	PIPE 2.875x0.203	5.00	63.4	57.1	76.5	1.3	1.0	0.02
11	1	235.00	Leg	PIPE 2.875x0.203	5.00	63.4	57.1	76.5	7.3	3.9	0.13
10	3	230.00	Leg	PIPE 3.500x0.216	5.00	51.7	82.5	100.4	19.4	15.9	0.23
10	2	225.00	Leg	PIPE 3.500x0.216	5.00	51.7	82.5	100.4	30.4	26.5	0.37
10	1	220.00	Leg	PIPE 3.500x0.216	5.00	51.7	82.5	100.4	47.2	40.9	0.57
9	3	213.33	Leg	PIPE 4.500x0.237	6.68	53.1	116.1	142.6	67.2	60.4	0.58
9	2	206.67	Leg	PIPE 4.500x0.237	6.68	53.1	116.1	142.6	85.4	76.8	0.74
9	1	200.00	Leg	PIPE 4.500x0.237	6.68	53.1	116.1	142.6	106.1	95.8	0.91
8	3	193.33	Leg	PIPE 5.563x0.258	6.68	42.6	169.4	193.5	125.8	114.1	0.74
8	2	186.67	Leg	PIPE 5.563x0.258	6.68	42.6	169.4	193.5	146.8	132.8	0.87
8	1	180.00	Leg	PIPE 5.563x0.258	6.68	42.6	169.4	193.5	168.5	153.3	0.99
7	3	173.33	Leg	PIPE 5.563x0.375	6.68	43.6	239.3	275.0	185.9	169.9	0.78
7	2	166.67	Leg	PIPE 5.563x0.375	6.68	43.6	239.3	275.0	203.6	186.3	0.85
7	1	160.00	Leg	PIPE 5.563x0.375	6.68	43.6	239.3	275.0	218.2	200.0	0.91
6	3	153.33	Leg	PIPE 6.625x0.340	6.68	36.0	274.8	302.1	233.7	214.2	0.85
6	2	146.67	Leg	PIPE 6.625x0.340	6.68	36.0	274.8	302.1	247.1	226.6	0.90
6	1	140.00	Leg	PIPE 6.625x0.340	6.68	36.0	274.8	302.1	261.4	239.4	0.95
5	2	130.00	Leg	PIPE 6.625x0.432	10.02	54.6	304.2	378.5	275.7	252.5	0.91
5	1	120.00	Leg	PIPE 6.625x0.432	10.02	54.6	304.2	378.5	294.1	268.5	0.97
4	3	110.00	Leg	PIPE 8.625x0.375	10.02	41.2	386.4	437.4	310.2	282.6	0.80
4	2	100.00	Leg	PIPE 8.625x0.375	10.02	41.2	386.4	437.4	327.7	297.9	0.85
4	1	90.00	Leg	PIPE 8.625x0.375	10.02	41.2	386.4	437.4	343.8	311.8	0.89
3	3	80.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	360.5	325.9	0.71
3	2	70.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	376.1	338.9	0.74
3	1	60.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	392.1	352.1	0.78
2	3	50.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	407.3	364.5	0.81
2	2	40.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	422.9	377.0	0.84
2	1	30.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	437.7	388.8	0.87
1	3	20.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	452.8	400.8	0.90
1	2	10.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	467.3	412.1	0.92
1	1	0.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	482.0	423.5	0.95
11	2	240.00	Diag	L1 3/4x1 3/4x1/8	6.90	106.8	10.5	7.1	1.8	1.8	0.25
11	1	235.00	Diag	L1 3/4x1 3/4x1/8	6.92	107.1	10.5	7.1	4.3	4.4	0.62
10	3	230.00	Diag	L1 3/4x1 3/4x3/16	6.94	108.6	15.0	10.7	4.6	4.5	0.43
10	2	225.00	Diag	L1 3/4x1 3/4x3/16	6.95	108.9	15.0	10.7	4.7	4.8	0.45
10	1	220.00	Diag	L1 3/4x1 3/4x3/16	6.97	109.1	14.9	10.7	7.9	7.9	0.74
9	3	213.33	Diag	L2x2x3/16	8.47	118.4	14.5	11.8	6.5	6.4	0.54
9	2	206.67	Diag	L2x2x3/16	8.91	125.5	12.9	11.8	7.2	7.1	0.61
9	1	200.00	Diag	L2x2x3/16	9.38	133.5	11.4	11.8	7.9	7.8	0.69
8	3	193.33	Diag	L2x2x1/4	9.87	139.3	13.8	15.7	8.0	8.1	0.58
8	2	186.67	Diag	L2x2x1/4	10.37	147.6	12.3	15.7	9.5	9.4	0.77
8	1	180.00	Diag	L2x2x1/4	10.89	155.9	11.1	15.7	8.9	9.0	0.81
7	3	173.33	Diag	L2x2x1/4	11.44	164.9	9.9	15.7	8.4	8.3	0.85
7	2	166.67	Diag	L2x2x1/4	12.00	173.9	8.9	15.7	8.0	8.1	0.90
7	1	160.00	Diag	L2x2x1/4	12.59	183.1	8.0	15.7	7.9	7.8	0.98
6	3	153.33	Diag	L2 1/2x2 1/2x3/16	13.17	152.0	11.2	11.0	7.9	8.0	0.73
6	2	146.67	Diag	L2 1/2x2 1/2x3/16	13.75	159.3	10.2	11.0	8.0	7.9	0.78
6	1	140.00	Diag	L2 1/2x2 1/2x3/16	14.33	166.6	9.3	11.0	7.9	7.9	0.85
5	2	130.00	Diag	L2 1/2x2 1/2x1/4	16.85	178.9	10.7	25.0	8.2	8.1	0.77
5	1	120.00	Diag	L2 1/2x2 1/2x1/4	17.72	187.2	9.7	25.0	8.0	8.1	0.82
4	3	110.00	Diag	L3x3x3/16	18.59	165.0	11.5	21.1	8.8	8.8	0.77
4	2	100.00	Diag	L3x3x3/16	19.44	171.8	10.6	21.1	8.9	8.9	0.84
4	1	90.00	Diag	L3x3x3/16	20.30	178.6	9.8	21.1	9.0	9.0	0.92
3	3	80.00	Diag	L3x3x1/4	21.18	185.5	12.0	28.1	9.1	9.1	0.76



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3	2	70.00	Diag	L3x3x1/4	22.06	192.5	11.1	28.1	9.3	9.3	0.84
3	1	60.00	Diag	L3x3x1/4	22.96	199.5	10.4	28.1	9.5	9.5	0.91
2	3	50.00	Diag	L3 1/2x3 1/2x1/4	23.86	180.6	14.8	31.1	9.7	9.6	0.65
2	2	40.00	Diag	L3 1/2x3 1/2x1/4	24.77	186.8	13.9	31.1	9.9	9.9	0.71
2	1	30.00	Diag	L3 1/2x3 1/2x1/4	25.69	192.9	13.0	31.1	10.1	10.0	0.78
1	3	20.00	Diag	L4x4x1/4	26.62	175.5	18.0	34.1	10.2	10.2	0.57
1	2	10.00	Diag	L4x4x1/4	27.55	180.9	17.0	34.1	10.4	10.4	0.61
1	1	0.00	Diag	L4x4x1/4	28.48	186.3	16.0	34.1	10.5	10.5	0.66
11	2	240.00	Horiz	L1 3/4x1 3/4x3/16	4.75	145.7	8.4	10.7	1.1	1.2	0.14
9	3	213.33	Horiz	L1 3/4x1 3/4x3/16	4.87	145.1	8.4	10.7	0.4	0.2	0.04

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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)
11	2	Leg	A500 gr.CS	Tension	4	0.750	A325X	1.125	N/A	63.4	57.1	76.5	121.7T	N/A	N/A
11	2	Diag	A572 gr.50	Bolted	1	0.625	A325X	1.500	0.250	106.8	10.5	11.8	17.2S	9.8	7.1
11	2	Horiz	A572 gr.50	Bolted	1	0.625	A325X	1.500	0.250	145.7	8.4	17.4	17.2S	14.7	10.7
11	1	Leg	A500 gr.CS	Tension	4	0.750	A325X	1.125	N/A	63.4	57.1	76.5	121.7T	N/A	N/A
11	1	Diag	A572 gr.50	Bolted	1	0.625	A325X	1.500	0.250	107.1	10.5	11.8	17.2S	9.8	7.1
10	3	Leg	A500 gr.CS	Tension	5	0.875	A325X	1.313	N/A	51.7	82.5	100.4	209.9T	N/A	N/A
10	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	108.6	15.0	17.4	17.2S	14.7	10.7
10	2	Leg	A500 gr.CS	Tension	5	0.875	A325X	1.313	N/A	51.7	82.5	100.4	209.9T	N/A	N/A
10	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	108.9	15.0	17.4	17.2S	14.7	10.7
10	1	Leg	A500 gr.CS	Tension	5	0.875	A325X	1.313	N/A	51.7	82.5	100.4	209.9T	N/A	N/A
10	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	109.1	14.9	17.4	17.2S	14.7	10.7
9	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
9	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
9	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
9	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
9	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
9	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
9	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
8	3	Leg	A500 gr.CS	Tension	5	1.000	A325X	2.400	N/A	42.6	169.4	193.5	275.3T	N/A	N/A
8	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
8	2	Leg	A500 gr.CS	Tension	5	1.000	A325X	2.400	N/A	42.6	169.4	193.5	275.3T	N/A	N/A
8	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
8	1	Leg	A500 gr.CS	Tension	5	1.000	A325X	2.400	N/A	42.6	169.4	193.5	275.3T	N/A	N/A
8	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
7	3	Leg	A500 gr.CS	Tension	6	1.000	A325X	1.500	N/A	43.6	239.3	275.0	330.3T	N/A	N/A
7	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	164.9	9.9	27.3	17.2S	19.5	15.7
7	2	Leg	A500 gr.CS	Tension	6	1.000	A325X	1.500	N/A	43.6	239.3	275.0	330.3T	N/A	N/A
7	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	173.9	8.9	27.3	17.2S	19.5	15.7
7	1	Leg	A500 gr.CS	Tension	6	1.000	A325X	1.500	N/A	43.6	239.3	275.0	330.3T	N/A	N/A
7	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	183.1	8.0	27.3	17.2S	19.5	15.7
6	3	Leg	A500 gr.CS	Tension	6	1.000	A325X	1.500	N/A	36.0	274.8	302.1	330.3T	N/A	N/A
6	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.125	0.375	152.0	11.2	27.7	17.2S	11.0	12.0
6	2	Leg	A500 gr.CS	Tension	6	1.000	A325X	1.500	N/A	36.0	274.8	302.1	330.3T	N/A	N/A
6	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.125	0.375	159.3	10.2	27.7	17.2S	11.0	12.0
6	1	Leg	A500 gr.CS	Tension	6	1.000	A325X	1.500	N/A	36.0	274.8	302.1	330.3T	N/A	N/A
6	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.125	0.375	166.6	9.3	27.7	17.2S	11.0	12.0
5	2	Leg	A500 gr.CS	Tension	6	1.500	A325X	3.600	N/A	54.6	304.2	378.5	765.3T	N/A	N/A
5	2	Diag	A529 gr.50	Bolted	2	0.625	A325X	1.125	0.250	178.9	10.7	36.5	34.5S	34.1	25.0
5	1	Leg	A500 gr.CS	Tension	6	1.500	A325X	3.600	N/A	54.6	304.2	378.5	765.3T	N/A	N/A
5	1	Diag	A529 gr.50	Bolted	2	0.625	A325X	1.125	0.250	187.2	9.7	36.5	34.5S	34.1	25.0
4	3	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
4	3	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
4	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
4	2	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	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
4	1	Diag	A529 gr.50	Bolted	2	0.625	A325X	1.125	0.375	178.6	9.8	34.6	34.5S	25.7	21.1
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	185.5	12.0	45.6	34.5S	34.1	28.1
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	192.5	11.1	45.6	34.5S	34.1	28.1

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Contract: 245643

Project: 245 FT RTL TOWER

Date and Time: 3/14/2024 2:44:36 PM

Revision: 0

Site: BLACK GNAT- KY

Engineer: AS

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	199.5	10.4	45.6	34.5S	34.1	28.1
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	180.6	14.8	54.8	34.5S	34.1	31.1
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	186.8	13.9	54.8	34.5S	34.1	31.1
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	192.9	13.0	54.8	34.5S	34.1	31.1
1	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
1	3	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
1	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
1	2	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	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
1	1	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	186.3	16.0	63.9	34.5S	34.1	34.2



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 Contract: 245643
 Project: 245 FT RTL TOWER
 Date and Time: 3/14/2024 2:44:36 PM

Revision: 0
 Site: BLACK GNAT- KY
 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)
	488.43	428.24			42.60



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Contract: 245643

Project: 245 FT RTL TOWER

Date and Time: 3/14/2024 2:44:36 PM

Revision: 0

Site: BLACK GNAT- KY

Engineer: AS

Section O: TOWER FOUNDATION DATA

Load Combination Max Envelope
 Wind Direction Maximum

Axial Load (Kips)	Shear Load-X (Kips)	Shear Load-Z (Kips)	Total Shear (Kips)	Moment-X (Kipsft)	Moment-Y (Kipsft)	Moment-Z (Kipsft)	Total Moment (Kipsft)
81.24	-60.65	-35.21	70.13	-5438.01	-5.37	9413.05	10870.95
60.94	-60.67	-35.22	70.15	-5436.87	-5.37	9412.67	10870.05

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Contract: 245643

Project: 245 FT RTL TOWER

Date and Time: 3/14/2024 2:44:36 PM

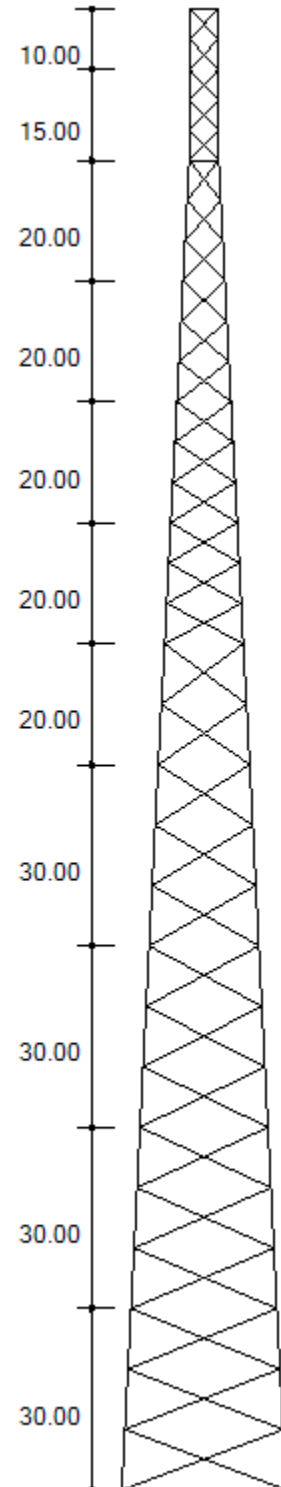
Revision: 0

Site: BLACK GNAT- KY

Engineer: AS

DESIGN SPECIFICATION

Sct.	Length (ft)	Top W. (in)	Bot Width (in)
1	30.00	289.97	325.97
2	30.00	253.97	289.97
3	30.00	217.97	253.97
4	30.00	181.97	217.97
5	20.00	156.24	181.97
6	20.00	132.24	156.24
7	20.00	107.32	132.24
8	20.00	83.32	107.32
9	20.00	58.40	83.32
10	15.00	57.53	58.40
11	10.00	56.99	57.53



MAXIMUM BASE REACTIONS

Download (Kips)	488.4
Uplift (Kips)	428.2
Shear (Kips)	42.6

Customer: SOUTHERN TOWERS, LP
 Project: 245 FT RTL TOWER
 Site: BLACK GNAT, KY
 Engr. File: 245643
 Build Code: ANSI/TIA-222-H-2016



Mat Foundation

ver.3.0.4

Design Parameters

Description	Load Case					
	1	2	3	4	5	Service
Total Moment, ft-kips	10,870.95	10,870.05	1,602.80	508.30	507.14	3,618.29
Total Shear, kips	70.13	70.15	9.61	2.83	2.83	23.52
Total Tower Wt, kips	81.24	60.94	213.93	81.17	60.90	67.66
Max. Uplift, kips	421.52	428.24	.00	.00	1.26	126.87
Shear, kips	38.71	39.10	39.10	12.12	.57	12.12
Max Download, kips	488.43	481.72	138.16	48.60	41.81	175.94
Shear	42.60	42.22	9.76	3.26	2.87	15.14
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	27.16
Offset, in	48.00
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	5.73

Mat	
Thickness, ft	2.00
Width, ft	34.00
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 11,922.25 ft-kips
 ϕM_N – Diagonal Axis 12,434.51 ft-kips
 Moment – Interaction Ratio 0.971
 ϕV_N – Lateral Load 212.12 kips
 Lateral Load – Interaction Ratio 0.331

Final Mat Dimension : 34.00 x 34.00 x 2.00 ft. thick w/ (3) 3.50 ft. Dia. Piers

Final Pocket Dimension : Pockets not required

Total Volume of Concrete : 90.2 yd³

Designed By: AS
 Date: 14 March, 2024 @ 02:56 PM

ENGINEERING
 CHECKED BY: SY
 03/14/2024

Customer: SOUTHERN TOWERS, LP
 Project: 245 FT RTL TOWER
 Site: BLACK GNAT, KY
 Engr. File: 245643
 Build Code: ANSI/TIA-222-H-2016



Mat Foundation

ver.3.0.4

OTM Capacity

Controlling Load Case: 2 [Wind w/Min. Dead Load]
 Foundation Width = 34.00 ft
 $M_U = 11,578.2$ ft-kips

	ϕM_N , ft-kips	x, ft	N	σ_{ur}
Parallel	11,922.3	5.679	0.167	5.73
Diagonal	12,434.5	13.896	0.289	5.73

$\phi M_N = 11,922.25$ ft-kips IRatio = 0.971
 $\phi V_N = 212.12$ kips IRatio = 0.331

Mat Design

$\gamma_e = 123.91$ 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	6.466	0.190	3.77	21.78	0.00	19.94	7.53	11.17	3.63
Diagonal	15.412	0.321	3.49	21.78	0.00	102.65	37.68	21.96	8.33

Interior Slab	Moment, ft-kips/ft			Shear, kips/ft		
	DownLoad Side	Uplift Side	Download Side	Uplift Side	Soil Pressure Termination	
	24.44	85.73	6.00	9.22	6.74	

Punching Shear	Download			Uplift			Description
	Interior	Edge	Corner	Interior	Edge	Corner	
b_o , ft	18.74	16.21	13.26	16.08	14.88	12.60	2-Way Shear
V_{su} , psi	126.58	153.19	196.34	128.31	144.47	180.48	
ϕV_c , psi	228.08	228.08	228.08	228.08	228.08	228.08	
IR	0.56	0.67	0.86	0.56	0.63	0.79	
M_{ut} , ft-kips	108.6			99.7			Moment transfer to slab
B_e , ft	8.2			7.8			
M_u , ft-kips/ft	13.3			12.8			
Edge Distances: a = 5.32 ft. b = 3.42 ft. c = 5.16 ft.							

Summary	Max. Value	Utilization
Slab Moment, ft-kips/ft	102.65	0.978
Slab Shear, kips/ft	21.96	0.845
Punching Shear, psi	196.34	0.861
Soil Bearing Required, σ_{UR} , ksf	5.03	0.878

Mat Reinforcement	
Min. Steel Area (Strength)	1.100 in ² /ft.
Min. Steel Area (Temperature)	.259 in ² /ft.
Steel Strain Actual	0.015
Minimum Steel Strain Required	0.005

64 - #7 Horizontal bars equally spaced @6.38 in., each way, top and bottom, total of 256, $A_s = 1.132$ in²/ft

Designed By: AS
 Date: 14 March, 2024 @ 02:56 PM

Customer: SOUTHERN TOWERS, LP
Project: 245 FT RTL TOWER
Site: BLACK GNAT, KY
Engr. File: 245643
Build Code: ANSI/TIA-222-H-2016



Mat Foundation

ver.3.0.4

Pier Design

Controlling Load Case: 2 [Wind w/Min. Dead Load]

C = 481.72 kips	Vc = 42.22 kips	Mc = 179.44 ft-kips
T = 428.24 kips	Vt = 39.10 kips	Mt = 166.18 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	= 13.639 in ²	(Rhomin = 0.0098)
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 = 0.161
REQUIRED Ld = MODIFIER * BASIC Ld * ACI 318 MODIFIERS, (12 in. min.)

Designed By: AS
Date: 14 March, 2024 @ 02:56 PM

File no : 245643 Customer: **SOUTHERN TOWERS, LP** Date 03/14/24
 By: AS Description: **245 FT RTL TOWER** Page 1
 Chk: _____ **BLACK GNAT, KY** Ver. 11/16/01

FACTORED REACTIONS / LEG

Tower Type: RT

COMPRESSION = 488.43 k (6) - 1.5 " dia A.B. per leg
 UPLIFT = 428.24 k $f'_c = 4,500$ psi
 SHEAR = 42.60 k $f_y = 60,000$ psi

SOIL PARAMETERS

- A) Depth neglected for skin friction = Top 3.0 ft
- B) Average ultimate skin shear for uplift:
 3.0 ft to 6.0 ft depth = 490 psf, and 6.0 ft to 8.0 ft depth = 930 psf, and 8.0 ft to 13.0 ft depth = 820 psf, and 13.0 ft to 18.6 ft depth = 990 psf, and 18.6 ft to 21.2 ft depth = 2400 psf, and 21.2 ft to 23.5 ft depth = 2040 psf.
- C) Average ultimate skin shear for download:
 3.0 ft to 6.0 ft depth = 490 psf, and 6.0 ft to 8.0 ft depth = 930 psf, and 8.0 ft to 13.0 ft depth = 820 psf, and 13.0 ft to 18.6 ft depth = 990 psf, and 18.6 ft to 21.2 ft depth = 2400 psf, and 21.2 ft to 23.5 ft depth = 2040 psf.
- D) Ultimate net end bearing at 23.5 ft = 35.37 ksf.
- E) Groundwater table below foundation depth.

USE 6'- 0" DIAMETER AND 23'- 6" DEEP DRILLED PIER WITH 0'- 6" CAP

Perimeter = 18.85 ft Area = 28.27 ft²

Total Download = 488.43 + [1.2 x 0.15 - 0.75 x 0.120] x 24 x 28.27 =
 = 549.5 k

Tension Capacity = 28.27 x (24.0 x 0.15 + 0.0 x 0.09) x 0.90 +
 18.85 x (0.490 x 3.0 + 0.930 x 2.0 + 0.820 x 5.0 + 0.990 x 5.6 + 2.400 x 2.6 + 2.040 x 2.3) x 0.75 =
 91.6 + 338.0 = 429.6 k
 429.6 >= 428.24 OK

Comp. Capacity = 28.27 x 35.37 x 0.75 +
 18.85 x (0.490 x 3.0 + 0.930 x 2.0 + 0.820 x 5.0 + 0.990 x 5.6 + 2.400 x 2.6 + 2.040 x 2.3) x 0.75 =
 749.9 + 338.0 = 1087.9 k
 1087.9 >= 549.5 OK

LATERAL - SEE ATTACHED CALCULATIONS USING WIGGINS METHOD

Max M = 349.14 ft-k Max V = 45.77 k

REINFORCEMENT - SEE ATTACHED SHAFT PROGRAM

USE 26 - # 8 BARS VERTICAL WITH *
 # 4 TIES AT 6" IN TOP 7.0 FT AND AT
 12 " IN REST OF PIER
 {60.0 in Cage Diameter}

CONCRETE VOLUM 28.27 x 24.0 / 27 = 25.1 cu yds / pier

Drilled Pier Analysis

```

*****
** WIGGINS METHOD **
*****
** DETERMINE MAXIMUM LATERAL SOIL PRESSURE **
** AND MAXIMUM MOMENT IN THE SHAFT FOR **
** A DRILLED PIER FOUNDATION **
***** Thu Mar 14 15:53:18 2024 *****
Ver. 2.3 NT
    
```

FILE NO.- 245643
 ENGR.- AS
 DESCR.- SOUTHERN TOWERS, LP 245 FT RTL

FORMULAS USED

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

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

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

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

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

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

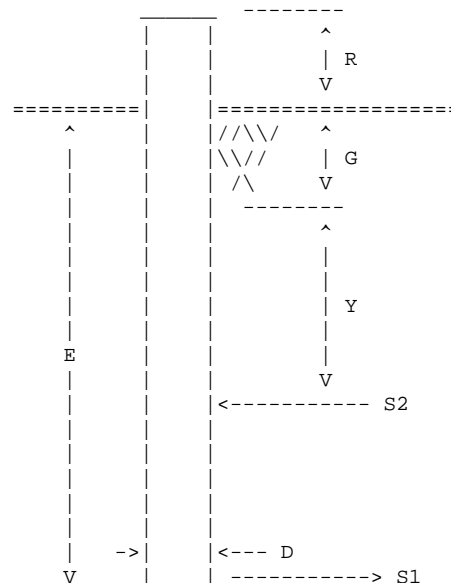
$$L = (MA/P) + R + E$$

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

$$N = NL / L$$

$$SP1 = S1 / E$$

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



Diameter of Pier = D = 6.00 ft
 Projection Above Grade = R = .50 ft
 Embedment Depth = E = 23.50 ft
 Depth of Soil Ignored = G = 3.00 ft

Equivalent Length of Pier = L = 24.00 ft
 Length for NO Soil Resistance = NL = 3.50 ft
 Applied Moment at Top of Pier = MA = .00 ft-k
 Shear at Top of Pier = P = 42.60 kips

MAXIMUM LATERAL SOIL PRESSURES

MAXIMUM VALUES IN SHAFT

K = .2281
 Y = 7.51 ft
 S1 = 2.788 ksf
 S2 = 1.402 ksf
 SP1 = 119 psf/ft
 SP2 = 133 psf/ft

M = 349.14 ft-k
 V = 45.77 kips

Drilled Pier Analysis

245643
SOUTHERN TOWERS,

**
** COMPARISION DATA **
**

BROMS ----->

	SAND		CLAY
PHI =	30.0 degrees		C = 1.00 ksf
DENSITY =	100.00 pcf		
E =	15.27 ft		E = 18.64 ft
Max. M =	308.64 ft-k		Max. M = 438.31 ft-k
Max. V =	125.31 kips		Max. V = 108.79 kips
Ls =	11.152 ft		

EIA REV. E NORMAL SOIL -----> E = 11.44 ft

EIA REV. F NORMAL SOIL -----> E = 14.19 ft

SHAFT REINFORCING PROGRAM VER. 91.7

=====

DESIGNED BY: AS
 ENG. FILE NO.: 245643
 DATE: 03/14/24

CUSTOMER: SOUTHERN TOWERS, LP
 DESCRIPTION: 245 FT RTL TOWERBLACK GNAT, KY

INPUT DATA

=====

C = 488.43 Kips	Vc = 45.77 Kips	Mc = 349.14 Ft-K
T = 428.24 Kips	Vt = 45.77 Kips	Mt = 349.14 Ft-K
Fy = 60.00 Ksi	Fyt = 60.00 Ksi	L.F. = 1.00
H = 72.00 In.	Ds = 60.00 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. = 20.36 sq.in. (Rhomin = 0.0050)
 Maximum steel area limit = 325.72 sq.in. (Rhomax = 0.0800)

CIRCULAR TIE DATA

=====

$V_u < 0.85 \cdot V_c / 2$, shear reinforcement is not required.

Use maximum tie spacing specified in A.C.I. 318-83,
 Section 7.10.5 for compression reinforcement.

DEVELOPMENT LENGTH MODIFIERS FOR TENSION AND COMPRESSION BAR DEVELOPMENT

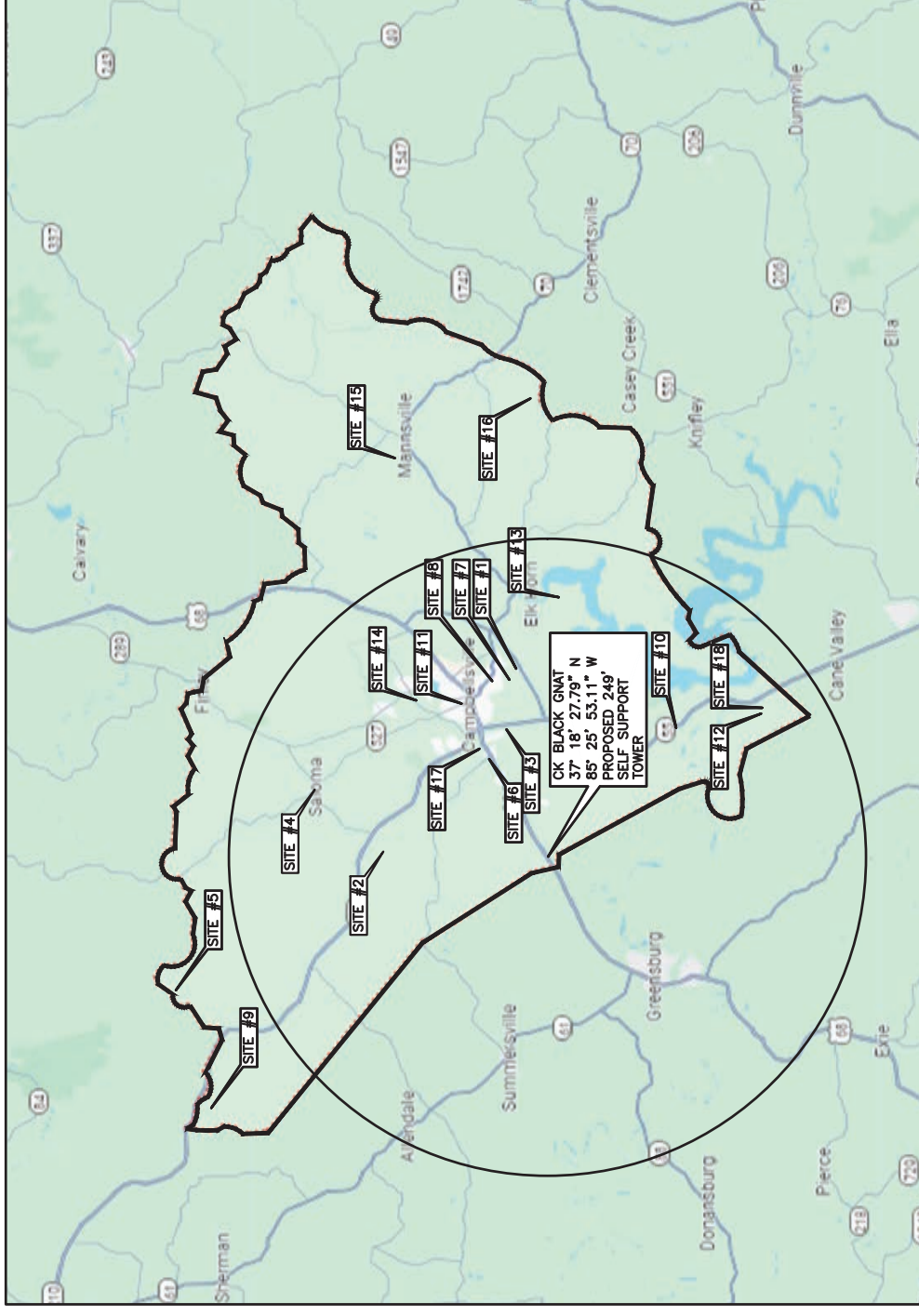
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DLMT = MODIFIER FOR TENSION DEVELOPMENT =	1.000
DLMC = MODIFIER FOR COMPRESSION DEVELOPMENT =	.313
REQUIRED Ld = MODIFIER * BASIC Ld * ACI 318 MODIFIERS (12 in. min.)	
DLMT = MODIFIER FOR TENSION DEVELOPMENT =	1.000
DLMC = MODIFIER FOR COMPRESSION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

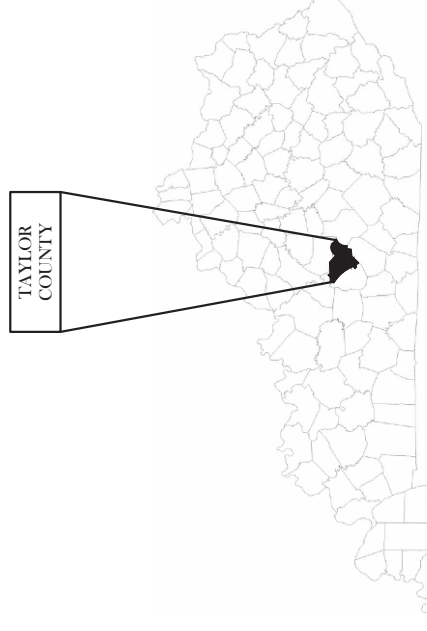
KENTUCKY CELCO
PARTNERSHIP D/B/A



CITY OF CAMPBELLSVILLE
TAYLOR COUNTY, KENTUCKY
VERIZON WIRELESS SITE CK BLACK
GNAT
TOWER LOCATION EXHIBIT



MAP NOT TO SCALE



KENTUCKY

- SITE#1: FCC# 1042222, GLOBAL TOWER, LLC, THROUGH AMERICAN TOWERS, LLC 37° 19' 24.0"N, 085° 19' 29.0"W
- SITE#2: FCC# 1043056, CELCO PARTNERSHIP 37° 23' 00.2"N, 085° 25' 41.9"W
- SITE#3: FCC# 1043442, CITY OF CAMPBELLSVILLE 37° 19' 38.0"N, 085° 21' 35.0"W
- SITE#4: FCC# 1044280, TENNESSEE GAS COMPANY LLC 37° 24'49.0"N, 085° 23' 33.3"W
- SITE#5: FCC# 1044516, EAST KENTUCKY POWER COOPERATIVE, INC 37° 28' 32.2"N, 085° 30' 23.9"W
- SITE#6: FCC# 1046182, FIRST CORBIN REALTY, LLC 37° 20' 07.0"N, 085° 22' 33.0"W
- SITE#7: FCC# 1214265, CELCO PARTNERSHIP 37° 19' 34.2"N, 085° 19' 52.8"W
- SITE#8: FCC# 1218250, AMERICAN FAMILY ASSOCIATION 37° 19' 59.2"N, 085° 19' 52.8"W
- SITE#9: FCC# 1227279, CELCO PARTNERSHIP 37° 27' 43.2"N, 088° 34' 27.8"W
- SITE#10: FCC# 1241661, CELCO PARTNERSHIP 37° 14' 59.0"N, 085° 21' 27.8"W
- SITE#11: FCC# 1242907, SBA INFRASTRUCTURES, LLC 37° 20' 53.0"N 085° 20' 42.0"W
- SITE#12: FCC# 1243210, SBA INFRASTRUCTURES, LLC 37° 12' 42.6"N 085° 20' 56.8"W
- SITE#13: FCC# 1265531, SBA MONARCH TOWERS III, LLC 37° 18' 12.2"N 085° 17' 02.9"W
- SITE#14: FCC# 1294366, KENTUCKY UTILITIES COMPANY 37° 22' 02.2"N 085° 20' 31.3"W
- SITE#15: FCC# 1303111, CELCO PARTNERSHIP LLC 37° 22' 33.5"N 085° 12'18.7"W
- SITE#16: FCC# 1306590, CELCO PARTNERSHIP 37° 18' 55.6"N 085° 10' 17.0"W
- SITE#17: FCC# 1311283, CELCO PARTNERSHIP 37° 20' 19.8"N 085° 22'11.9"W
- SITE#18: FCC# 1321708, TILLMAN INFRASTRUCTURE, LLC 37° 12' 40.8" N 085° 20' 46.2" W

Southernlowers BTS

250 SIGNAL MOUNTAIN RD, SUITE B
CHATTANOOGA, TN 37405
O: 423-531-6300

LAB
49030 Pontiac Trail, Suite 100
Wixom, Michigan 48393
PHONE: (248) 705-9212

REV	DATE	DESCRIPTION
A	09/23/23	ISSUED FOR REVIEW
B	10/31/23	REVISED ISSUED FOR REVIEW
0	03/04/24	ISSUED FOR CONSTRUCTION



SITE INFORMATION:
CK BLACK GNAT
5321 GREENSBURG RD,
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

SITE NUMBER:
725009

SITE NAME:
CK BLACK GNAT

PID NUMBER: 16735940
DRAWN BY: RC
CHECKED BY: PL
DATE: 09.23.23

SHEET TITLE:
PSC MAP

SHEET NUMBER:
PSC-1
INK PAD & CAMPPY REV 3 FINAL 10/16/23



Archive Search Results Form 7460-1 for ASN 2023-ASO-30961-OE

Overview				
Study (ASN):	2023-ASO-30961-OE			
Prior Study:	2023-ASO-28119-OE			
Status:	Determined			
Letters:	Determination			
Supplemental Form 7460-2: Please login to add a Supplemental Form 7460-2.				
Received Date:	11/13/2023			
Entered Date:	11/13/2023			
Completion Date:	01/05/2024			
Expiration Date:	07/05/2025			
Map:	View Map			
Sponsor Information				
Sponsor:	Southern Towers (RB)			
Attention Of:	Ryan C. Bradley			
Address:	250 Signal Mountain Rd			
Address2:	Suite B			
City:	Chattanooga			
State:	TN			
Postal Code:	37405			
Country:	US			
Phone:	423-531-6300 115			
Fax:				
Sponsor's Representative Information				
Representative:	ASAC LLC			
Attention Of:	Dale Smith			
Address:	450 Notson Ter			
Address2:				
City:	Port Charlotte			
State:	FL			
Postal Code:	33952			
Country:	US			
Phone:	770-532-3255			
Fax:				
Construction Info				
Notice Of:	CONSTR			
Duration:	PERM (Months: 0 Days: 0)			
Work Schedule:				
Date Built:				
Structure Summary				
Structure Type:	Antenna Tower			
Structure Name:	KY-005			
FCC Number:	1327417 FCC ASR Registration			
Structure Details				
Latitude (NAD 83):	37° 18' 27.79" N			
Longitude (NAD 83):	85° 25' 53.11" W			
Horizontal Datum:	NAD 83			
Survey Accuracy:	4D			
Marking/Lighting:	Dual-red and medium intensity			
Other Description:				
Current Marking/Lighting:	Dual-red and medium intensity			
Current Marking/Lighting Other Description:				
Name:				
City:	Campbellsville			
State:	KY			
Nearest County:	Taylor			
Nearest Airport:	AAS			
Distance to Structure:	39965.32 feet			
On Airport:	No			
Direction to Structure:	242.61°			
Description of Location:	see map			
Description of Proposal:	Proposed new construction, height increase from previous filing			
Height and Elevation				
	Proposed	DNE	DET	
Site Elevation:	777			
Structure Height:	255	0	255	
Total Height (AMSL):	1032	0	1032	
Frequencies				
Low Freq	High Freq	Unit	ERP	Unit
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	dBW
21.2	23.6	GHz	42	dBW
614	698	MHz	1000	W
614	698	MHz	2000	W
698	806	MHz	1000	W
806	901	MHz	500	W
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
929	932	MHz	3500	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W

1670	1675	MHz	500	W
1710	1755	MHz	500	W
1850	1910	MHz	1640	W
1850	1990	MHz	1640	W
1930	1990	MHz	1640	W
1990	2025	MHz	500	W
2110	2200	MHz	500	W
2305	2360	MHz	2000	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W
2496	2690	MHz	500	W

Previous [Back to Search Result](#) Next



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

Aeronautical Study No.
 2023-ASO-30961-OE
 Prior Study No.
 2023-ASO-28119-OE

Issued Date: 01/05/2024

Ryan C. Bradley
 Southern Towers (RB)
 250 Signal Mountain Rd
 Suite B
 Chattanooga, TN 37405

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

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

Structure: Antenna Tower KY-005
 Location: Campbellsville, KY
 Latitude: 37-18-27.79N NAD 83
 Longitude: 85-25-53.11W
 Heights: 777 feet site elevation (SE)
 255 feet above ground level (AGL)
 1032 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

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

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

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

- At least 10 days prior to start of construction (7460-2, Part 1)
- Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

This determination expires on 07/05/2025 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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

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

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

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

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

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

If we can be of further assistance, please contact our office at (718) 553-2611, or angelique.eersteling@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2023-ASO-30961-OE.

Signature Control No: 604443015-608843526

(DNE)

Angelique Eersteling
Technician

Attachment(s)
Case Description
Frequency Data
Map(s)

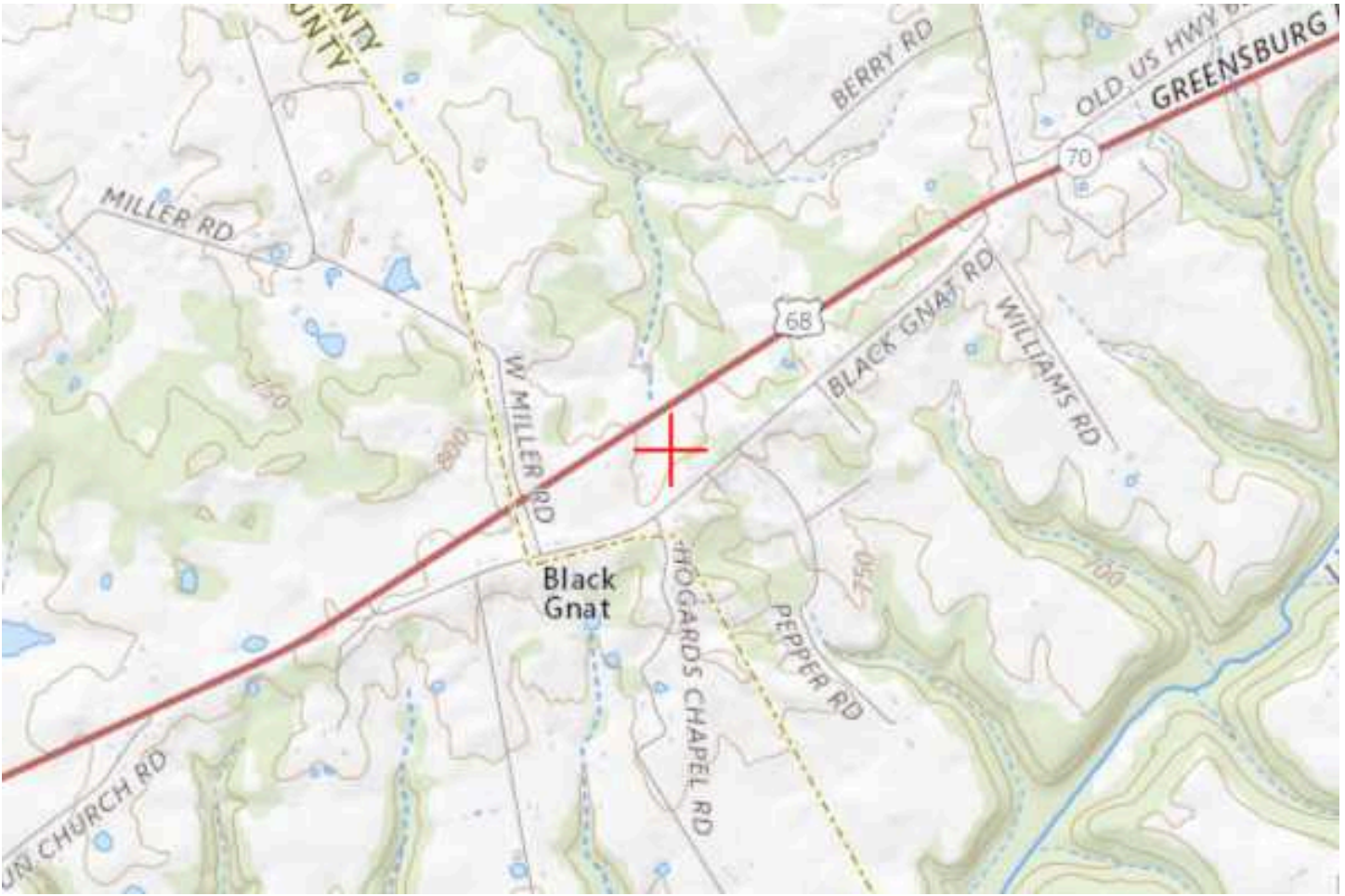
cc: FCC

Case Description for ASN 2023-ASO-30961-OE

Proposed new construction, height increase from previous filing

Frequency Data for ASN 2023-ASO-30961-OE

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







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 Airport Zoning Commission, 421 Buttermilk Pike, Covington, KY 41017. For questions, telephone 859-341-2700.
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. 05/2017
 Page 2 of 2

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

APPLICANT (name) Southern Towers		PHONE (423)531-6300	FAX	KY AERONAUTICAL STUDY #	
ADDRESS (street) 250 Signal Mountain Rd, Suite B		CITY Chattanooga		STATE TN	ZIP 37405
APPLICANT'S REPRESENTATIVE (name) ASAC		PHONE 770-532-3255	FAX		
ADDRESS (street) 450 Notson Ter		CITY Port Charlotte		STATE FL	ZIP 33952
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 37 ° 18 ' 27.79 "		LONGITUDE 85 ° 25 ' 53.11 "		DATUM <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> Other	
NEAREST KENTUCKY City TompCounty Monroe		NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT Tompkinsville/Monroe County			
SITE ELEVATION (AMSL, feet) 777		TOTAL STRUCTURE HEIGHT (AGL, feet) 255		CURRENT (FAA aeronautical study #) 2023-ASO-30961-OE	
OVERALL HEIGHT (site elevation plus total structure height, feet) 1032				PREVIOUS (FAA aeronautical study #)	
DISTANCE (from nearest Kentucky public use or Military airport to structure) 6.5 NM				PREVIOUS (KY aeronautical study #)	
DIRECTION (from nearest Kentucky public use or Military airport to structure) 62					
DESCRIPTION OF LOCATION (Attach USGS 7.5 minute quadrangle map or an airport layout drawing with the precise site marked and any certified survey.) See survey and map					
DESCRIPTION OF PROPOSAL Proposed new construction					
FAA Form 7460-1 (Has the "Notice of Construction or Alteration" been filed with the Federal Aviation Administration?) <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes, when? 11/13/23					
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 Dale Smith		TITLE CEO, ASAC		SIGNATURE	
				DATE 1/11/24	
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

Thursday, February 8, 2024

Southern Towers
250 Signal Mountain Road
Chattanooga, TN 37405

AS-2024-015-AAS **Taylor County Airport**
APPLICANTS NAME: Southern Towers
NEAREST CITY: Campbellsville, KY
LATITUDE/LONGITUDE: 37°18'27.79" N, 85°25'53.11" W
HEIGHT (In Feet): 255' AGL/777' AMSL
CONSTRUCTION PROPOSED: Telecommunications Tower

NOTES: The tower location is approximately 6.2 nm WSW of AAS and exceeds 200 ft AGL. It penetrates no protected air surfaces.

FAA DETERMINATION: 2023-ASO-30961-OE. No Hazard No Impact to Air Navigation, Marking And Lighting required IAW AC 70/7460-1 M, med-dual system-Chapters 4, 8 (M-Dual), & 15.

This letter is to notify you that the Kentucky Airport Zoning Commission approved your permit application for the construction of Structures at the Location, Coordinates, and Height as indicated above. Construction must comply with requirements, if any, listed in the FAA Determination.

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.

An email of this letter was also sent to your representative, Lindsey Smith, asac@asacsafety.com. If you have any questions, please contact us.

Respectfully,

Anthony Adams

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



DELTA OAKS GROUP

GEOTECHNICAL INVESTIGATION REPORT

February 28, 2024

Prepared For:

Southern Towers



**Black Gnat
KY-005**

Proposed 245-Foot Self-Supporting Tower

5321 Greensburg Road, Campbellsville (Taylor County), Kentucky 42718
Latitude N 37° 18' 27.79" Longitude W 85° 25' 53.11"

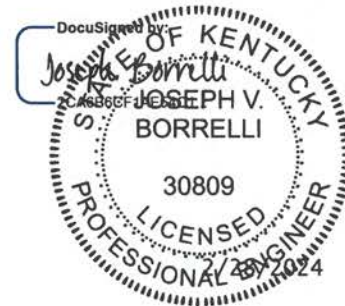
Delta Oaks Group Project GEO24-20830-08
Revision 0
geotech@deltaoaksgroup.com

Performed By:

Sarah C. Russek, P.E.

Reviewed By:

Joseph V. Borrelli, Jr., P.E.





DELTA OAKS GROUP

INTRODUCTION

This geotechnical investigation report has been completed for the proposed 245-foot self-supporting tower located at 5321 Greensburg Road in Campbellsville (Taylor County), Kentucky. The purpose of this investigation was to provide engineering recommendations and subsurface condition data at the proposed tower location. A geotechnical engineering interpretation of the collected information was completed and utilized to suggest design parameters regarding the adequacy of the structure's proposed foundation capacity under various loading conditions. This report provides the scope of the geotechnical investigation; geologic material identification; results of the geotechnical laboratory testing; and design parameter recommendations for use in the design of the telecommunication facility's foundation and site development.

SITE CONDITION SUMMARY

The proposed tower and compound are located on a commercial lot in an open, grass-covered area exhibiting a generally flat topography across the tower compound and subject property.

REFERENCES

- Construction Drawings, provided by Southern Towers, dated October 17, 2023
- TIA Standard (TIA-222-G), dated August 2005

SUBSURFACE FIELD INVESTIGATION SUMMARY

The subsurface field investigation was conducted through the advancement of one mechanical soil test boring to the auger refusal depth of 18.6 feet bgs. Samples were obtained at selected intervals in accordance with ASTM D 1586. The sampling was conducted at the staked centerline of the proposed tower. Upon encountering auger refusal, 5.0 feet of coring was conducted in accordance with ASTM D 2113. Soil and rock samples were transported to our laboratory and classified by a geotechnical engineer in accordance with ASTM D 2487. A detailed breakdown of the material encountered in our subsurface field investigation can be found in the boring log presented in the Appendix of this report.

Additional testing was performed on selected samples in accordance with ASTM D 7012 (Unconfined Compressive Strength – Rock). Laboratory data can be found in the Appendix of this report.

A boring plan portraying the spatial location of the boring in relation to the proposed tower, tower compound and immediate surrounding area can be found in the Appendix.



DELTA OAKS GROUP

SUBSURFACE CONDITION SUMMARY

The following provides a general overview of the site's subsurface conditions based on the data obtained during our field investigation.

FILL

Fill material was not encountered during the subsurface field investigation.

SOIL

The residual soil encountered in the subsurface field investigation began at the existing ground surface in the boring and consisted of lean clay. The materials ranged from a soft to hard consistency.

Auger advancement refusal was encountered during the subsurface field investigation at a depth of 18.6 feet bgs.

ROCK

Rock was encountered during the subsurface investigation at a depth of 18.6 feet bgs. The rock can be described as highly fractured, moderately to highly weathered, moderately hard limestone. Clayey weathered rock material was encountered beneath the limestone present at the top of the core.

SUBSURFACE WATER

Subsurface water was not encountered during the subsurface investigation. However, subsurface water elevations can fluctuate throughout the year due to variations in climate, hydraulic parameters, nearby construction activity and other factors.

FROST PENETRATION

The frost penetration depth for Taylor County, Kentucky is 20 inches (1.7 feet).

CORROSIVITY

Soil resistivity was performed in accordance with ASTM G187 with a test result of 2,200 ohms-cm.



DELTA OAKS GROUP

FOUNDATION DESIGN SUMMARY

In consideration of the provided tower parameters and the determined soil characteristics, Delta Oaks Group recommends utilizing a shallow foundation or drilled shaft foundations for the proposed structure. The strength parameters presented in the following sections can be utilized for design of the foundation.

GENERAL SUBSURFACE STRENGTH PARAMETERS

Spring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-1	0.0 - 3.0	CL	105	0	300
	3.0 - 6.0	CL	120	0	900
	6.0 - 8.0	CL	120	0	1,700
	8.0 - 13.0	CL	120	0	1,500
	13.0 - 18.6	CL	120	0	1,800
	18.6 - 21.2	Limestone	150	0	6,000
	21.2 - 23.6	CL	130	0	4,000

- The unit weight provided assumes overburden soil was compacted to a minimum of 95% of the maximum dry density as obtained by the standard Proctor method (ASTM D 698) and maintained a moisture content within 3 percent of optimum.
- The values provided for phi angle and cohesion should be considered ultimate.



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SUBSURFACE STRENGTH PARAMETERS – SHALLOW FOUNDATION

Boring	Dimensions (feet)	Depth (feet bgs)	Net Ultimate Bearing Capacity (psf)
B-1	5.0 x 5.0	3.0	2,070
		4.0	6,440
		5.0	6,660
		6.0	6,880
	10.0 x 10.0	3.0	1,960
		4.0	6,000
		5.0	6,110
		6.0	6,220
	15.0 x 15.0	3.0	1,920
		4.0	5,850
		5.0	5,920
		6.0	6,000
	20.0 x 20.0	3.0	1,910
		4.0	5,770
		5.0	5,830
		6.0	5,880
	25.0 x 25.0	3.0	1,890
		4.0	5,730
		5.0	5,770
		6.0	5,820

- Delta Oaks Group recommends the foundation bear a minimum of 3.0 feet bgs.
- A sliding friction factor of 0.35 can be utilized along the base of the proposed foundation.
- An Ultimate Passive Pressure Table with a reduction due to frost penetration to a depth of 1.7 feet bgs is presented on the following page.
- Delta Oaks Group recommends an appropriate factor of safety be utilized for the design of the foundation.



DELTA OAKS GROUP

ULTIMATE PASSIVE PRESSURE VS. DEPTH - TOWER FOUNDATION

Soil Layers (feet)		Moist Unit Weight	Phi Angle	Cohesion	PV	KP	Ph
Top	0.0	105	0	300	0.00	1.00	300.00
Bottom	1.7	105	0	300	178.50	1.00	389.25
Top	1.7	105	0	300	178.50	1.00	778.50
Bottom	3.0	105	0	300	315.00	1.00	915.00
Top	3.0	120	0	900	315.00	1.00	2115.00
Bottom	6.0	120	0	900	675.00	1.00	2475.00
Top	6.0	120	0	1,700	675.00	1.00	4075.00
Bottom	8.0	120	0	1,700	915.00	1.00	4315.00
Top	8.0	120	0	1,500	915.00	1.00	3915.00
Bottom	10.0	120	0	1,500	1155.00	1.00	4155.00



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SUBSURFACE STRENGTH PARAMETERS - DRILLED SHAFT FOUNDATION

Boring	Depth (bgs)	Net Ultimate Bearing Capacity (psf)	Ultimate Skin Friction - Compression (psf)	Ultimate Skin Friction - Uplift (psf)
B-1	0.0 - 3.0	--	--	--
	3.0 - 6.0	13,110	490	490
	6.0 - 8.0	14,120	930	930
	8.0 - 13.0	15,120	820	820
	13.0 - 18.6	31,980	990	990
	18.6 - 21.2	35,430	2,400	2,400
	21.2 - 23.6	35,370	2,040	2,040

- The top 3.0 feet of soil should be ignored due to the frost penetration and the potential soil disturbance during construction.
- The values presented assume the concrete is cast-in-place against earth walls and any casing utilized during construction of the foundation was removed.
- Delta Oaks Group recommends an appropriate factor of safety be utilized for the design of the foundation.



DELTA OAKS GROUP

CONSTRUCTION

SITE DEVELOPMENT

The proposed access road and tower compound should be evaluated by a Geotechnical Engineer, or their representative, after the removal or "cutting" of the areas to design elevation but prior to the placement of any structural fill material to verify the presence of unsuitable or weak material. Unsuitable or weak materials should be undercut to a suitable base material as determined by a Geotechnical Engineer, or their representative. Backfill of any undercut area(s) should be conducted in accordance with the recommendations provided in the *STRUCTURAL FILL PLACEMENT* section of this report.

Excavations should be sloped or shored in accordance and compliance with OSHA 29 CFR Part 1926, Excavation Trench Safety Standards as well as any additional local, state and federal regulations.

STRUCTURAL FILL PLACEMENT

Structural fill materials should be verified, prior to utilization, to have a minimum unit weight of 110 pcf (pounds per cubic foot) when compacted to a minimum of 95% of its maximum dry density and within plus or minus 3 percentage points of optimum moisture. Materials utilized should not contain more than 5 percent by weight of organic matter, waste, debris or any otherwise deleterious materials. The Liquid Limit should be no greater than 40 with a Plasticity Index no greater than 20. Structural fill material should contain a maximum particle size of 4 inches with 20 percent or less of the material having a particle size between 2 and 4 inches. Backfill should be placed in thin horizontal lifts not to exceed 8 inches (loose) in large grading areas and 4 inches (loose) where small handheld or walk-behind compaction equipment will be utilized. The potential suitability of on-site materials to be utilized as fill should be evaluated by a Geotechnical Engineer, or their representative just prior to construction.

During construction structural fill placement should be monitored and tested. This should include at minimum, visual observation as well as a sufficient amount of in-place field density tests by a Geotechnical Engineer, or their representative. Materials should be compacted to a minimum of 95% of the maximum dry density as determined by ASTM D 698 (standard Proctor method). Moisture contents should be maintained to within plus or minus 3 percentage points of the optimum moisture content.

SHALLOW FOUNDATIONS

Foundation excavation(s) should be evaluated by a Geotechnical Engineer, or their representative, prior to reinforcing steel and concrete placement. This evaluation should include visual observation to verify a level bearing surface; vertical side-walls with no protrusions, sloughing or caving; and the exposed bearing surface is free of deleterious material, loose soil and standing water. Excavation dimensions should be verified and testing performed on the exposed bearing surface to verify compliance with design recommendations. Bearing testing should be conducted in accordance with ASTM STP399 (Dynamic Cone Penetrometer). A 6-inch layer of compacted crushed stone should be installed prior to reinforcing steel and concrete placement. If subsurface water is encountered during excavation dewatering methods such as sump pumps or well points may be required.



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DRILLED SHAFT FOUNDATIONS

Drilled shaft foundations (caissons) are typically installed utilizing an earth auger to reach the design depth of the foundation. Specialized roller bits or core bits can be utilized to penetrate boulders or rock. The equipment utilized should have cutting teeth to result in an excavation with little or no soil smeared or caked on the excavation sides with spiral-like corrugated walls. The drilled shaft design diameter should be maintained throughout the excavation with a plumbness tolerance of 2 percent of the length and an eccentricity tolerance of 3 inches from plan location. A removable steel casing can be installed in the shaft to prevent caving of the excavation sides due to soil relaxation. Upon completion of the drilling and casing placement, loose soils and subsurface water greater than 3-inches in depth should be removed from the bottom of the excavation for the "dry" installation method. The drilled shaft installation should be evaluated by a Geotechnical Engineer, or their representative, to verify suitable end bearing conditions, design diameter and bottom cleanliness. The evaluation should be conducted immediately prior to as well as during concrete placement operations.

The drilled shaft should be concreted as soon as reasonably practical after excavation to reduce the deterioration of the supporting soils to prevent potential caving and water intrusion. A concrete mix design with a slump of 6 to 8 inches employed in conjunction with the design concrete compressive strength should be utilized for placement. Super plasticizer may be required to obtain the recommended slump range. During placement, the concrete may fall freely through the open area in the reinforcing steel cage provided it does not strike the reinforcing steel and/or the casing prior to reaching the bottom of the excavation. The removable steel casing should be extracted as concrete is placed. During steel casing removal a head of concrete should be maintained above the bottom of the casing to prevent soil and water intrusion into the concrete below the bottom of the casing.

If subsurface water is anticipated and/or weak soil layers are encountered drilled shafts are typically installed utilizing the "wet" method by excavating beneath a drilling mud slurry. The drilling mud slurry is added to the drilled shaft excavation after groundwater has been encountered and/or the sides of the excavation are observed to be caving or sloughing. Additional inspection by a Geotechnical Engineer, or their representative, during the "wet" method should consist of verifying maintenance of sufficient slurry head, monitoring the specific gravity, pH and sand content of the drilling slurry, and monitoring any changes in the depth of the excavation between initial approval and just prior to concreting.

Concrete placement utilizing the "wet" method is conducted through a tremie pipe at the bottom of the excavation with the drilling mud slurry level maintained at a minimum of 5 feet or one shaft diameter, whichever is greater, above the ground water elevation. The bottom of the tremie should be set one tremie pipe diameter above the excavation. A closure flap at the bottom of the tremie or a sliding plug introduced into the tremie before the concrete is recommended to reduce the potential contamination of the concrete by the drilling mud slurry. The bottom of the tremie must be maintained in the concrete during placement. Additional concrete should be placed through the tremie causing the slurry to overflow from the excavation in order to reduce the potential for the development of "slurry pockets" remaining in the drilled shaft.



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QUALIFICATIONS

The design parameters and conclusions provided in this report have been determined in accordance with generally accepted geotechnical engineering practices and are considered applicable to a rational degree of engineering certainty based on the data available at the time of report preparation and our practice in this geographic region. All recommendations and supporting calculations were prepared based on the data available at the time of report preparation and knowledge of typical geotechnical parameters in the applicable geographic region.

The subsurface conditions used in the determination of the design recommendations contained in this report are based on interpretation of subsurface data obtained at specific boring locations. Irrespective of the thoroughness of the subsurface investigation, the potential exists that conditions between borings will differ from those at the specific boring locations, that conditions are not as anticipated during the original analysis, or that the construction process has altered the soil conditions. That potential is significantly increased in locations where existing fill materials are encountered. Additionally, the nature and extent of these variations may not be evident until the commencement of construction. Therefore, a geotechnical engineer, or their representative, should observe construction practices to confirm that the site conditions do not differ from those conditions anticipated in design. If such variations are encountered, Delta Oaks Group should be contacted immediately in order to provide revisions and/or additional site exploration as necessary.

Samples obtained during our subsurface field investigation will be retained by Delta Oaks Group for a period of 30 days unless otherwise instructed by Southern Towers. No warranty, expressed or implied, is presented.

Delta Oaks Group appreciates the opportunity to be of service for this Geotechnical Investigation Report. Please do not hesitate to contact Delta Oaks Group with any questions or should you require additional service on this project.



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APPENDIX



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BORING PLAN





PROJECT NAME Black Gnat (KY-005)
PROJECT NUMBER GEO24-20830-08
PROJECT LOCATION Campbellsville, Kentucky

CLIENT Southern Towers
Boring No.: B-1 PAGE 1 OF 1

DATE DRILLED : 2/22/2024
DRILLING METHOD : Hollow Stem Auger & Coring
GROUND ELEVATION :
BORING DEPTH (ft) : 23.6

GROUND WATER LEVELS:
AT TIME OF DRILLING : — Not encountered
AT END OF DRILLING : — N/A
AFTER DRILLING : — Not measured

DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLE TYPE	MATERIAL CLASSIFICATION	Pocket Penetrometer (tsf)	BLOWS 1st	BLOWS 2nd	BLOWS 3rd	N VALUE	▲ SPT N VALUE ▲												
									10	20	30	40	50	60	70	80	90				
0	Soft, brown, tan, LEAN CLAY (CL), trace roots, trace sand, moist		CL		WOH	WOH	3	3													
5	-- Stiff, tan, gray, brown								2	3	6	9									
	-- Very stiff												8	8	9	17					
10	-- Tan, gray, orange-brown, black								4	7	8	15									
15													5	7	11	18					
	-- Hard	50/1"			100																
20	Gray, highly fractured, moderately to highly weathered, moderately hard, LIMESTONE Unconfined compressive strength = 6,077 psi				REC = 93.3 %	RQD = 44.4 %															
	Gray, hard, LEAN CLAY (CL) (weathered rock material)				CL																
25	Refusal at 18.6 feet. Bottom of borehole at 23.6 feet.																				

DIRECTIONS TO SITE:

FROM 203 NORTH COURT STREET, CAMPBELLSVILLE, KENTUCKY, 42718: HEAD NORTHWEST ON NORTH COURT STREET TOWARDS US-68 EAST / KENTUCKY 70 / KENTUCKY 55 / EAST BROADWAY STREET 82 FEET, TURN LEFT ONTO US-68 WEST / KENTUCKY 55 / KENTUCKY 70 / EAST BROADWAY STREET ,MINOR CONGESTION, 5.4 MILE ARRIVE AT 5321 GREENSBURG ROAD, CAMPBELLSVILLE, KENTUCKY 42718

PREPARED BY: LAB, 248-705-9212

OPTION AND LEASE AGREEMENT

THIS OPTION AND LEASE AGREEMENT ("**Agreement**"), dated as of the latter of the signature dates below (the "**Effective Date**"), is entered into by **Mills Motor Sales, LLC**, a Kentucky Limited Liability Company having a mailing address of 5321 Greensburg Rd., Campbellsville, Kentucky 42718 (hereinafter referred to as "**Landlord**"), and **Southern Towers BTS, LP**, a Delaware limited partnership having a mailing address of 250 Signal Mountain Road, Suite B, Chattanooga, TN 37405 (hereinafter referred to as "**Tenant**").

BACKGROUND

Landlord owns or controls that certain plot, parcel or tract of land, together with all rights and privileges arising in connection therewith, located at 5321 Greensburg Rd., Campbellsville, Kentucky 42718, in the County of Taylor, State of Kentucky, and more particularly described on **Exhibit 1** attached hereto (collectively, the "**Property**"). Tenant desires to use a portion of the Property in connection with its federally licensed communications business. Landlord desires to grant to Tenant the right to use a portion of the Property in accordance with this Agreement.

The parties agree as follows:

1. OPTION TO LEASE.

(a) Landlord grants to Tenant an option (the "**Option**") to lease a portion of the Property consisting of 10,000 square feet, with such easements as are necessary for the structure and initial installation, as described on **Exhibit 2** attached hereto (collectively, the "**Premises**").

(b) During the Option Term (as defined in Section 1(c)), Tenant and its agents, engineers, surveyors and other representatives will have the right (i) to enter upon the Property to inspect, examine, conduct soil borings, drainage testing, material sampling, radio frequency testing and other geological or engineering tests or studies of the Property (collectively, the "**Tests**"), (ii) to apply for and obtain licenses, permits, approvals, or other relief required or deemed necessary or appropriate, at Tenant's sole discretion, for its use of the Premises, including without limitation applications for zoning variances, zoning ordinances, amendments, special use permits, and construction permits (collectively, the "**Government Approvals**"), (iii) to initiate the ordering and/or scheduling of necessary utilities, and (iv) otherwise to do those things on or off the Property that, in the opinion of Tenant, are necessary in Tenant's sole discretion to determine the physical condition of the Property, the environmental history of the Property, Landlord's title to the Property and the feasibility or suitability of the Property for Tenant's Permitted Use (as defined in Section 2), all at Tenant's expense. After the Tests are performed, Tenant will not be liable to Landlord or any third party on account of any pre-existing defect or condition on or with respect to the Property, whether or not such defect or condition is disclosed by Tenant's inspection. Tenant will restore the Property to its condition as it existed at the commencement of the Option Term, reasonable wear and tear and casualty not caused by Tenant excepted.

(c) In consideration of Landlord granting Tenant the Option, Tenant agrees to pay Landlord the sum of [REDACTED] within thirty (30) business days of the Effective Date. The Option will be for an initial term of one (1) year commencing on the Effective Date (as it may be extended, the "**Option Term**") and may be extended by Tenant for an additional two (2) years upon written notification to Landlord and the payment of an additional [REDACTED] no later than ten (10) days prior to the expiration date of the initial Option Term.

(d) The Option may be sold, assigned or transferred at any time by Tenant to any member, affiliate or subsidiary of Tenant or to any third party agreeing to be subject to the terms hereof. Otherwise, the Option may not be sold, assigned or transferred without the written consent of Landlord, such consent not to be unreasonably withheld, conditioned or delayed. From and after the date the Option has been sold, assigned or transferred by Tenant to a third party agreeing to be subject to the terms hereof, Tenant shall immediately be released from any and all liability under this Agreement, including the payment of any rental or other sums due, without any further action.

(e) During the Option Term, Tenant may exercise the Option by notifying Landlord in writing. If Tenant exercises the Option, then Landlord shall lease the Premises to Tenant and Tenant shall lease the Premises from Landlord, subject to the terms and conditions of this Agreement. If Tenant does not exercise the Option during the Option Term, this Agreement will terminate and the parties will have no further liability under this Agreement.

(f) If during the Option Term, or during the Lease Term (if the Option is exercised), Landlord decides to subdivide, sell, or change the status of the zoning of the Premises, Property or any of Landlord's contiguous, adjoining or surrounding property (the "**Surrounding Property**," [which includes (without limitation) the remainder of the structure]) or in the event of foreclosure, Landlord shall immediately notify Tenant in writing. Any sale of the Property shall be subject to Tenant's rights under this Agreement. Landlord agrees that during the Option Term or the Lease Term, Landlord shall not initiate or consent to any change in the zoning of the Premises, Property or Surrounding Property or impose or consent to any other restriction that would prevent or limit Tenant from using the Premises for the Permitted Use.

2. PERMITTED USE. Tenant may use the Premises for the following purposes (collectively, the "**Permitted Use**"): (a) the transmission and reception of communications signals, and (b) the installation, construction, maintenance, operation, repair, replacement and upgrade of its communication tower and fixtures and related equipment, cables, accessories and improvements, which may include a suitable support structure, associated antennas, I beams, equipment shelters or cabinets and fencing and any other items determined by Tenant to be necessary to the successful and secure use of the Premises (collectively, the "**Communication Facility**"). Tenant further has the right, but not the obligation, to add, modify and/or replace equipment in order to be in compliance with any current or future federal, state or local mandated application, including, but not limited to, emergency 911 communication services, at no additional cost to Tenant or Landlord. Landlord and Tenant agree that any portion of the Communication Facility that may be conceptually described on **Exhibit 2** will not be deemed to limit Tenant's Permitted Use. If **Exhibit 2** includes drawings of the initial installation of the Communication Facility, Landlord's execution of this Agreement will signify Landlord's approval of **Exhibit 2**. Tenant has the right to install and operate transmission cables from the equipment shelter or cabinet to the antennas, electric lines from the main feed to the equipment shelter or cabinet and communication lines from the main entry point to the equipment shelter, or cabinet, and to make property improvements, alterations, upgrades or additions appropriate for Tenant's use ("**Tenant Changes**"). Tenant Changes include the right to construct a fence around the Premises and undertake any other appropriate means to secure the Premises. Tenant agrees to comply in all material respects with all applicable governmental laws, rules, statutes and regulations, relating to its use of the Communication Facility on the Property. Tenant has the right to modify, supplement, replace, upgrade, expand the equipment, increase the number of antennas or relocate the Communication Facility within the Premises at any time during the term of this Agreement. Tenant will be allowed to make such alterations to the Property as it deems appropriate in order to accomplish Tenant's Changes or to insure that Tenant's Communication Facility complies with all applicable federal, state or local laws, rules or regulations. In the event Tenant desires to modify or upgrade the Communication Facility, and Tenant requires an additional portion of the Property (the "**Additional Premises**") for such modification or upgrade, Landlord agrees to lease to Tenant the Additional Premises, upon the same terms and conditions set forth herein, except that the Rent shall increase, in conjunction with the lease of the Additional Premises by a reasonable amount consistent with the manner in which the initial Rent for the Premises was calculated. Landlord agrees to take such actions and enter into and deliver to Tenant such documents as Tenant reasonably requests in order to effect and memorialize the lease of the Additional Premises to Tenant.

3. TERM.

(a) The initial lease term will be five (5) years ("**Initial Term**"), commencing on the effective date of written notification by Tenant to Landlord of Tenant's exercise of the Option (the "**Term Commencement Date**"). The Initial Term will terminate on the fifth (5th) annual anniversary of the Term Commencement Date.

(b) Thereafter, this Agreement will automatically renew for nine (9) additional five (5) year term(s) (each five (5) year term shall be defined as the "**Extension Term**"), upon the same terms and conditions unless Tenant notifies Landlord in writing of Tenant's intention not to renew this Agreement at least sixty (60) days prior to the expiration of the existing Term.

(c) If, at least sixty (60) days prior to the end of the ninth (9th) Extension Term, either Landlord or Tenant has not given the other written notice of its desire that the term of this Agreement end at the expiration of the ninth (9th) extended term, then upon the expiration of the ninth (9th) Extension Term this Agreement shall continue in force upon the same covenants, terms and conditions for a further term of one (1) year, and for annual terms thereafter until terminated by either party by giving to the other written notice of its intention to so terminate at least six (6) months prior to the end of any such annual term. Monthly rental during such annual terms shall be equal to the rent paid for the last month of the ninth (9th) extended term. If Tenant remains in possession of the Premises after the termination of this Agreement then Tenant will be deemed to be occupying the Premises on a month to month basis (the "**Holdover Term**"), subject to the terms and conditions of this Agreement.

(d) The Initial Term, the Extension Term and any Holdover Term are collectively referred to as the "**Lease Term**".

4. **RENT.**

(a) On or before the fifth (5th) day of each calendar month, commencing with the month following the date that Tenant commences construction on the Premises (the "**Rent Commencement Date**"), Tenant will pay to Landlord in advance a monthly rental payment of [REDACTED] ("**Rent**"), at the address set forth above. In partial months occurring after, and during the month of, the Rent Commencement Date, Rent will be prorated.

(b) In year one (1) of each Extension Term, the monthly Rent will increase by [REDACTED] over the Rent paid during the Initial Term or previous Extension Term (as applicable) as described in **Exhibit 3**.

(c) All other charges payable under this Agreement shall be billed by Landlord within one (1) year from the end of the calendar year in which the charges were incurred; any charges beyond such period shall not be billed by Landlord, and shall not be payable by Tenant. The provisions of the foregoing sentence shall survive the termination or expiration of this Agreement.

5. **APPROVALS.**

(a) Landlord agrees that Tenant's ability to use of the Premises and obligations under this Agreement are contingent upon the suitability of the Premises for Tenant's Permitted Use and Tenant's ability to obtain and maintain all Government Approvals. Landlord authorizes Tenant to prepare, execute and file all required applications to obtain Government Approvals for Tenant's Permitted Use under this Agreement and agrees to reasonably assist Tenant with such applications and with obtaining and maintaining the Government Approvals.

(b) At any time during the Option Term or the Lease Term, Tenant shall have the right to obtain a title report or commitment for a leasehold title policy from a title insurance company of its choice and to have the Property surveyed by a surveyor of Tenant's choice. In the event Tenant determines, in its sole discretion, due to the title report results or survey results, that the condition of the Premises is unsatisfactory, Tenant will have the right to terminate this Agreement upon written notice to Landlord.

(c) At any time during the Option Term or the Lease Term, Tenant may also perform and obtain, at Tenant's sole cost and expense, soil borings, percolation tests, engineering procedures, environmental investigation or other tests or reports on, over, and under the Property, necessary to determine if Tenant's use of the Premises will be compatible with Tenant's engineering specifications, system, design, operations or Government Approvals. If Tenant determines, in its sole discretion and for any reason, that the Premises are unsatisfactory for Tenant's Permitted Use, Tenant will have the right to terminate this Agreement upon written notice to Landlord.

6. **TERMINATION.** This Agreement may be terminated, without penalty or further liability, as follows:

(a) by either party on thirty (30) days prior written notice, if the other party remains in default under Paragraph 15 Default and Right to Cure of this Agreement after the applicable notice and cure periods;

(b) by Tenant upon written notice to Landlord, if Tenant is unable to obtain or maintain, any Governmental Approvals necessary for the construction or operation of the Communication Facility as now and hereafter intended by Tenant, or if Tenant determines in its sole discretion that the cost of obtaining or retaining the same is commercially unreasonable; or

(c) by Tenant upon written notice to Landlord for any reason, at any time prior to commencement of construction by Tenant; or

(d) by Tenant upon sixty (60) days prior written notice to Landlord for any reason, so long as Tenant pays Landlord a termination fee equal to three (3) months' Rent, at the then current Rent amount under this Agreement; provided, however, that no such termination fee will be payable on account of the termination of this Agreement by Tenant under any one or more of the following Paragraphs: 5(b)-Approvals, 6(a)-Termination, 6(b)-Termination, 6(c)-Termination, 8-Interference, 11(d)-Environmental, 18-Severability, 19-Condemnation, or 20-Casualty.

7. INSURANCE.

(a) Tenant will carry during the Term, at its own cost and expense, the following insurance: (i) "All Risk" property insurance for its property's replacement cost; (ii) commercial general liability insurance with a minimum limit of liability of \$2,500,000 combined single limit for bodily injury or death/property damage arising out of any one occurrence; and (iii) Workers' Compensation Insurance as required by law. The coverage afforded by Tenant's commercial general liability insurance shall apply to Landlord as an additional insured, but only with respect to Landlord's liability arising out of its interest in the Property.

(b) Landlord shall have the right to self-insure with respect to any of the above insurance requirements.

8. INTERFERENCE.

(a) Where there are existing radio frequency user(s) on the Property, Landlord will provide Tenant with a list of all existing radio frequency user(s) on the Property to allow Tenant to evaluate the potential for interference. Tenant warrants that its use of the Premises will not interfere with existing radio frequency user(s) on the Property so disclosed by Landlord, as long as the existing radio frequency user(s) operate and continue to operate within their respective frequencies and in accordance with all applicable laws and regulations.

(b) Landlord will not grant, after the date of this Agreement, a lease, license or any other right to any third party for use of the Property, if such use may in any way adversely affect or interfere with the Communication Facility, the operations of Tenant or the rights of Tenant under this Agreement. Landlord will notify Tenant in writing prior to granting any third party the right to install and operate communications equipment on the Property.

(c) Landlord will not use, nor will Landlord permit its employees, tenants, licensees, invitees or agents to use, any portion of the Property in any way which interferes with the Communication Facility, the operations of Tenant or the rights of Tenant under this Agreement. Landlord will cause such interference to cease within twenty-four (24) hours after receipt of notice of interference from Tenant. In the event any such interference does not cease within the aforementioned cure period then the parties acknowledge that Tenant will suffer irreparable injury, and therefore, Tenant will have the right, in addition to any other rights that it may have at law or in equity, for Landlord's breach of this Agreement, to elect to enjoin such interference or to terminate this Agreement upon written notice to Landlord.

9. INDEMNIFICATION.

(a) Tenant agrees to indemnify, defend and hold Landlord harmless from and against any and all injury, loss, damage or liability (or any claims in respect of the foregoing), costs or expenses (including reasonable attorneys' fees and court costs but excluding real property or personal property taxes) arising directly from the installation, use, maintenance, repair or removal of the Communication Facility or Tenant's breach of any provision of this Agreement, except to the extent attributable to the acts or omissions of Landlord, its employees, agents or independent contractors.

(b) Landlord agrees to indemnify, defend and hold Tenant harmless from and against any and all injury, loss, damage or liability (or any claims in respect of the foregoing), costs or expenses (including reasonable attorneys' fees and court costs but excluding real property or personal property taxes) arising directly from the acts or omissions of Landlord or its employees or agents, or Landlord's breach of any provision of this Agreement, except to the extent attributable to the negligent or intentional act or omission of Tenant, its employees, agents or independent contractors.

(c) Notwithstanding anything to the contrary in this Agreement, Tenant and Landlord each waives any

claims that each may have against the other with respect to consequential, incidental or special damages.

10. WARRANTIES.

(a) Tenant and Landlord each acknowledge and represent that it is duly organized, validly existing and in good standing and has the right, power and authority to enter into this Agreement and bind itself hereto through the party set forth as signatory for the party below.

(b) Landlord represents and warrants that: (i) Landlord solely owns the Property as a legal lot in fee simple, or controls the Property by lease or license; (ii) the Property is not encumbered by any liens, restrictions, mortgages, covenants, conditions, easements, leases, or any other agreements of record or not of record, which would adversely affect Tenant's Permitted Use and enjoyment of the Premises under this Agreement; (iii) as long as Tenant is not in default under this Agreement, Landlord grants to Tenant sole, actual, quiet and peaceful use, enjoyment and possession of the Premises; (iv) Landlord's execution and performance of this Agreement will not violate any laws, ordinances, covenants or the provisions of any mortgage, lease or other agreement binding on Landlord; and (v) if the Property is or is to become encumbered by a deed to secure a debt, mortgage or other security interest, Landlord will notify Tenant immediately and promptly provide to Tenant upon request a mutually agreeable Subordination, Non-Disturbance and Attornment Agreement.

11. ENVIRONMENTAL.

(a) Landlord represents and warrants that (i) the Property is free of hazardous substances and in compliance with applicable law as of the date of this Agreement, and (ii) to the best of Landlord's knowledge, the Property has never been subject to any contamination or hazardous conditions resulting in any environmental investigation, inquiry or remediation. Landlord and Tenant agree that each will be responsible for compliance with any and all environmental and industrial hygiene laws, including any regulations, guidelines, standards, or policies of any governmental authorities regulating or imposing standards of liability or standards of conduct with regard to any environmental or industrial hygiene condition or other matters as may now or at any time hereafter be in effect, that are now or were related to that party's or its predecessor's activity conducted in, or on the Property.

(b) Landlord and Tenant agree to hold harmless and indemnify the other from, and to assume all duties, responsibilities, and liabilities at the sole cost and expense of the indemnifying party for, payment of penalties, sanctions, forfeitures, losses, costs, or damages, and for responding to any action, notice, claim, order, summons, citation, directive, litigation, investigation or proceeding which is related to (i) the indemnifying party's failure to comply with any environmental or industrial hygiene law, including without limitation any regulations, guidelines, standards or policies of any governmental authorities regulating or imposing standards of liability or standards of conduct with regard to any environmental or industrial hygiene conditions or matters as may now or hereafter be in effect, or (ii) any environmental or industrial hygiene conditions that arise out of or are in any way related to the condition of the Property and activities conducted by the party or its predecessor thereon, unless the environmental conditions are caused by the other party.

(c) The indemnifications of this Paragraph 11 Environmental specifically include reasonable costs, expenses and fees incurred in connection with any investigation of Property conditions or any clean-up, remediation, removal or restoration work required by any governmental authority. The provisions of this Paragraph 11 Environmental will survive the expiration or termination of this Agreement.

(d) In the event Tenant becomes aware of any hazardous materials on the Property, or any environmental or industrial hygiene condition or matter relating to the Property that, in Tenant's sole determination, renders the condition of the Premises or Property unsuitable for Tenant's use, or if Tenant believes that the leasing or continued leasing of the Premises would expose Tenant to undue risks of government action, intervention or third-party liability, Tenant will have the right, in addition to any other rights it may have at law or in equity, to terminate the Agreement upon notice to Landlord.

12. ACCESS. At all times throughout the Term of this Agreement, and at no additional charge to Tenant, Tenant and its employees, agents, and subcontractors, will have twenty-four (24) hour per day, seven (7) day per week pedestrian and vehicular access to and over the Property, from an open and improved public road to the Premises, for the installation, maintenance and operation of the Communication Facility and any utilities serving the Premises. Landlord grants to Tenant an easement for such access and Landlord agrees to provide to Tenant

such codes, keys and other instruments necessary for such access at no additional cost to Tenant. Upon Tenant's request, Landlord will execute a separate recordable easement evidencing this right. In the event any public utility is unable to use the access or easement provided to Tenant then Landlord agrees to grant additional access or an easement either to Tenant or to the public utility, for the benefit of Tenant, at no cost to Tenant. At Tenant's request, Landlord agrees to execute an easement agreement in recordable form to give full effect to the provisions of this Paragraph 12.

13. REMOVAL/RESTORATION. All portions of the Communication Facility brought onto the Property by Tenant will be and remain Tenant's personal property and, at Tenant's option, may be removed by Tenant at any time during the Lease Term. Landlord covenants and agrees that no part of the Communication Facility constructed, erected or placed on the Premises by Tenant will become, or be considered as being affixed to or a part of, the Property, it being the specific intention of Landlord that all improvements of every kind and nature constructed, erected or placed by Tenant on the Premises will be and remain the property of Tenant and may be removed by Tenant at any time during the Lease Term. Within one hundred twenty (120) days of the termination of this Agreement, Tenant will remove all of Tenant's above-ground improvements and Tenant will, to the extent reasonable, restore the Premises to its condition at the commencement of the Agreement, reasonable wear and tear and loss by casualty or other causes beyond Tenant's control excepted. Notwithstanding the foregoing, Tenant will not be responsible for the replacement of any trees, shrubs or other vegetation, nor will Tenant be required to remove from the Premises or the Property any foundations or underground utilities.

14. MAINTENANCE/UTILITIES.

(a) Tenant will keep and maintain the Premises in good condition, reasonable wear and tear and damage from the elements excepted. Landlord will maintain and repair the Property and access thereto, in good and tenantable condition, subject to reasonable wear and tear and damage from the elements.

(b) Tenant will be responsible for paying on a monthly or quarterly basis all utilities charges for electricity, telephone service or any other utility used or consumed by Tenant on the Premises. In the event Tenant cannot secure its own metered electrical supply, Tenant will have the right, at its own cost and expense, to submeter from Landlord. When submetering is necessary and available, Landlord will read the meter on a monthly or quarterly basis and provide Tenant with the necessary usage data in a timely manner to enable Tenant to compute such utility charges. Failure by Landlord to perform this function will limit utility fee recovery by Landlord to a 12-month period. Landlord will fully cooperate with any utility company requesting an easement over, under and across the Property in order for the utility company to provide service to Tenant. Landlord will not be responsible for interference with, interruption of or failure, beyond the reasonable control of Landlord, of such services to be furnished or supplied by Landlord.

15. DEFAULT AND RIGHT TO CURE.

(a) The following will be deemed a default by Tenant and a breach of this Agreement: (i) non-payment of Rent if such Rent remains unpaid for more than thirty (30) days after receipt of written notice from Landlord of such failure to pay; or (ii) Tenant's failure to perform any other term or condition under this Agreement within forty-five (45) days after receipt of written notice from Landlord specifying the failure. No such failure, however, will be deemed to exist if Tenant has commenced to cure such default within such period and provided that such efforts are prosecuted to completion with reasonable diligence. Delay in curing a default will be excused if due to causes beyond the reasonable control of Tenant. If Tenant remains in default beyond any applicable cure period, Landlord will have the right to exercise any and all rights and remedies available to it under law and equity.

(b) The following will be deemed a default by Landlord and a breach of this Agreement. Landlord's failure to perform any term, condition, or breach of any warranty or covenant under this Agreement within forty-five (45) days after receipt of written notice from Tenant specifying the failure. No such failure, however, will be deemed to exist if Landlord has commenced to cure the default within such period and provided such efforts are prosecuted to completion with reasonable diligence. Delay in curing a default will be excused if due to causes beyond the reasonable control of Landlord. If Landlord remains in default beyond any applicable cure period, Tenant will have the right to exercise any and all rights available to it under law and equity, including the right to cure Landlord's default and to deduct the costs of such cure from any monies due to Landlord by Tenant.

16. **ASSIGNMENT/SUBLEASE.** Tenant will have the right to assign this Agreement or sublease the Premises and its rights herein, in whole or in part, without Landlord's consent. Upon notification to Landlord of such assignment, Tenant will be relieved of all future performance, liabilities and obligations under this Agreement.

17. **NOTICES.** All notices, requests, demands and communications hereunder will be given by first class certified or registered mail, return receipt requested, or by a nationally recognized overnight courier, postage prepaid, to be effective when properly sent and received, refused or returned undelivered. Notice will be addressed to the parties as follows:

If to Tenant: Southern Towers BTS, LP
250 Signal Mountain Road, Suite B
Chattanooga, TN 37405

If to Landlord: Mills Motor Sales, LLC
5321 Greensburg Road
Campbellsville, KY 42718

Either party hereto may change the place for the giving of notice to it by thirty (30) days written notice to the other as provided herein.

18. **SEVERABILITY.** If any term or condition of this Agreement is found unenforceable, the remaining terms and conditions will remain binding upon the parties as though said unenforceable provision were not contained herein. However, if the invalid, illegal or unenforceable provision materially and adversely affects either party's rights under this Agreement then such provision shall be modified so as to be valid, legal and enforceable in a manner that will give both parties the intended benefits under this Agreement.

19. **CONDEMNATION.** In the event Landlord receives notification of any condemnation proceedings affecting the Property, Landlord will provide notice of the proceeding to Tenant within forty-eight (48) hours. If a condemning authority takes all of the Property, or a portion sufficient, in Tenant's sole determination, to render the Premises unsuitable for Tenant, this Agreement will terminate as of the date the title vests in the condemning authority. The parties will each be entitled to pursue their own separate awards in the condemnation proceeds, which for Tenant will include, where applicable, the value of its Communication Facility, moving expenses, prepaid Rent, and business dislocation expenses, provided that any award to Tenant will not diminish Landlord's recovery. Tenant will be entitled to reimbursement for any prepaid Rent on a pro-rata basis.

20. **CASUALTY.** Landlord will provide notice to Tenant of any casualty affecting the Property within forty-eight (48) hours of the casualty. If any part of the Communication Facility or Property is damaged by fire or other casualty so as to render the Premises unsuitable, in Tenant's sole determination, then Tenant may terminate this Agreement by providing written notice to Landlord, which termination will be effective as of the date of such damage or destruction. Upon such termination, Tenant will be entitled to collect all insurance proceeds payable to Tenant on account thereof and to be reimbursed for any prepaid Rent on a pro-rata basis. If notice of termination is given, or if Landlord or Tenant undertake to rebuild the Communications Facility, Landlord agrees to use its reasonable efforts to permit Tenant to place temporary transmission and reception facilities on the Property at no additional Rent until such time as Tenant is able to secure a replacement transmission location or the reconstruction of the Communication Facility is completed.

21. **WAIVER OF LANDLORD'S LIENS.** Landlord waives any and all lien rights it may have, statutory or otherwise, concerning the Communication Facility or any portion thereof. The Communication Facility shall be deemed personal property for purposes of this Agreement, regardless of whether any portion is deemed real or personal property under applicable law, and Landlord consents to Tenant's right to remove all or any portion of the Communication Facility from time to time in Tenant's sole discretion and without Landlord's consent.

22. TAXES.

(a) Tenant shall be solely responsible for and shall timely pay all personal property taxes levied and assessed against it or its personal property. Tenant shall reimburse Landlord for Tenant's proportionate share of the real estate taxes with respect to the Property, upon timely receipt of a copy of the tax bill and request for reimbursement from Landlord. For purposes herein, Tenant's proportionate share shall be determined based upon the square footage of the Premises (excluding therefrom any unassessed square footage used by Tenant, e.g., the rooftop) relative to Landlord's entire parcel of real estate (using, in the case of building space, the net usable square footage of the building, and in the case of leased land, the unimproved portion of Landlord's real estate (including parking areas)). At the request of either party, the other shall provide evidence of payment of taxes.

(b) Tenant shall have the right to contest all taxes, assessments, charges and impositions assessed against its personal property or improvements, and Landlord agrees to join in such contest, if required by law, and to permit Tenant to proceed with the contest in Landlord's name, provided that the expense of the contest is borne by Tenant. If Landlord initiates an action to contest taxes or other items, Tenant may join in such action provided that Tenant pays its own expenses of so participating. Landlord shall, within seven (7) days of receipt of notice of any increase in taxes, assessments or other charges, send a copy of such notice by certified mail, return receipt requested, to Tenant. If Landlord fails to give Tenant such notice as set forth above, Landlord will be responsible for payment of any increases and Tenant shall have the option to pay the same and deduct such payment from Rent or any other sums next due.

23. SALE OF PROPERTY. If Landlord, at any time during the Option Term or the Lease Term, decides to sell, subdivide or rezone any of the Premises, all or any part of the Property or Surrounding Property, to a purchaser other than Tenant, Landlord shall promptly notify Tenant in writing, and such sale, subdivision or rezoning shall be subject to this Agreement and Tenant's rights hereunder. Landlord agrees not to sell, lease or use any areas of the Property or Surrounding Property for the installation, operation or maintenance of other wireless communications facilities if such installation, operation or maintenance would interfere with Tenant's Permitted Use or communications equipment as determined by radio propagation tests performed by Tenant in its sole discretion, any such testing to be at the expense of Landlord or Landlord's prospective purchaser, and not Tenant. If the radio frequency propagation tests demonstrate levels of interference unacceptable to Tenant, Landlord shall be prohibited from selling, leasing or using any areas of the Property or the Surrounding Property for purposes of any installation, operation or maintenance of any other wireless communications facility or equipment. Landlord shall not be prohibited from the selling, leasing or use of any of the Property or the Surrounding Property for non-wireless communication use that does not interfere with Tenant's use of the Premises. In the event the Property is transferred, the new landlord shall have a duty at the time of such transfer to provide Tenant with a completed IRS Form W-9, or its equivalent, and other related paper work to effect a transfer in Rent to the new landlord. The provisions of this Paragraph 23 shall in no way limit or impair the obligations of Landlord under Paragraph 8 above.

24. MISCELLANEOUS.

(a) **Amendment/Waiver.** This Agreement may not be amended, modified or revised except by a written instrument signed by an authorized agent of Landlord and an authorized agent of Tenant. No provision of this Agreement may be waived except in a writing signed by the waiving party.

(b) **Memorandum/Short Form Lease.** Each party will, upon fifteen (15) business days prior written notice from the other, execute, acknowledge and deliver to the other a recordable Memorandum or Short Form of Lease. Either party may record such Memorandum or Short Form of Lease at any time, in its absolute discretion.

(c) **Bind and Benefit.** The terms and conditions contained in this Agreement will run with the Property and bind and inure to the benefit of the parties, their respective heirs, executors, administrators, successors and assigns.

(d) **Entire Agreement.** This Agreement and the exhibits attached hereto, all being a part hereof, constitute the entire agreement of the parties hereto and will supersede all prior offers, negotiations and agreements with respect to the subject matter of this Agreement.

(e) **Governing Law.** This Agreement will be governed by the laws of the state in which the Premises are located, without regard to conflicts of law.

(f) **Interpretation.** Unless otherwise specified, the following rules of construction and interpretation apply: (i) captions are for convenience and reference only and in no way define or limit the construction of the terms and conditions hereof; (ii) use of the term "including" will be interpreted to mean "including but not limited to"; (iii) whenever a party's consent is required under this Agreement, except as otherwise stated in the Agreement or as same may be duplicative, such consent will not be unreasonably withheld, conditioned or delayed; (iv) exhibits are an integral part of the Agreement and are incorporated by reference into this Agreement; (v) use of the terms "termination" or "expiration" are interchangeable; and (vi) reference to a default will take into consideration any applicable notice, grace and cure periods.

(g) **Estoppel.** Either party will, at any time upon twenty (20) business days prior written notice from the other, execute, acknowledge and deliver to the other a statement in writing (i) certifying that this Agreement is unmodified and in full force and effect (or, if modified, stating the nature of such modification and certifying this Agreement, as so modified, is in full force and effect) and the date to which the Rent and other charges are paid in advance, if any, and (ii) acknowledging that there are not, to such party's knowledge, any uncured defaults on the part of the other party hereunder, or specifying such defaults if any are claimed. Any such statement may be conclusively relied upon by any prospective purchaser or encumbrancer of the Premises. The requested party's failure to deliver such a statement within such time will be conclusively relied upon by the requesting party that (i) this Agreement is in full force and effect, without modification except as may be properly represented by the requesting party, (ii) there are no uncured defaults in either party's performance, and (iii) no more than one month's Rent has been paid in advance.

(h) **W-9.** Landlord agrees to provide Tenant with a completed IRS Form W-9, or its equivalent, upon execution of this Agreement and at such other times as may be reasonably requested by Tenant.

(i) **No Electronic Signature/No Option.** The submission of this Agreement to any party for examination or consideration does not constitute an offer, reservation of or option for the Premises based on the terms set forth herein. This Agreement will become effective as an Agreement only upon the legal execution, acknowledgment and delivery hereof by Landlord and Tenant.

[SIGNATURES APPEAR ON THE NEXT PAGE]

IN WITNESS WHEREOF, the parties have caused this Agreement to effective as of the last date written below.

WITNESSES:

Charity Moore
Print Name: Charity Moore

Morgan Wise
Print Name: Morgan wise

"LANDLORD"

MILLS MOTOR SALES, LLC

By: Jonathan Mills
Name: Jonathan Mills
Its: owner
Date: 8/11/23

Ryan C. Bradley
Print Name: Ryan C. Bradley

"TENANT"

SOUTHERN TOWERS BTS, LP, a Delaware limited partnership

By: Southern Towers BTS LLC, a Tennessee limited liability company, its General Partner

Stella M. Trotter
Print Name: STELLA M. TROTTER

By: SEAN G. CASKIE
Name: SEAN G. CASKIE
Its: MANAGING PARTNER
Date: 8-17-23

[ACKNOWLEDGMENTS APPEAR ON THE NEXT PAGE]

LANDLORD ACKNOWLEDGMENT

STATE OF Kentucky)

COUNTY OF Taylor)

Before me, Josh A. Myers, a Notary Public of and for said County and State, personally appeared Jonathan Mills, with whom I am personally acquainted (or proved to me on the basis of satisfactory evidence), and who, upon oath, acknowledged (him/her)self to be the owner of Mills Motor Sales, LLC, the within named bargainor, and that Jonathan Mills as such owner, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing in (his/her) capacity..

WITNESS my hand and seal, at office in (county, state) Taylor, Kentucky, this 11 day of August, 2023

[Signature]
Notary Public

My Commission Expires: 1/9/27
KVNP64370

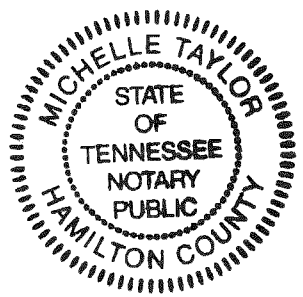
TENANT ACKNOWLEDGMENT

STATE OF TENNESSEE)

COUNTY OF HAMILTON)

Before me, Michelle Taylor, a Notary Public and for said County and State, personally appeared Sean Caskie, with whom I am personally acquainted (or proven to me on the basis of satisfactory evidence), and who, upon oath, acknowledged himself to be the Managing Member of Southern Towers BTS, LLC, the within named bargainor, a limited liability company and the General Partner of Southern Towers BTS, LP, the within named bargainor, a limited partnership, and that Sean Caskie as such Managing Member, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing the name of the limited partnership in his capacity as such Managing Member of its General Partner.

WITNESS my hand and seal, at office in Hamilton County, Tennessee, this 17th day of August, 2023



[Signature]
Notary Public

My Commission Expires: 4/12/2026

EXHIBIT 1

LEGAL DESCRIPTION OF PROPERTY

(TO BE INSERTED)

EXHIBIT 2

DESCRIPTION OF PREMISES

Page 294 of 338 to the Agreement dated _____, 20____, by and between Mills Motor Sales, LLC, a Kentucky Liability Company, as Landlord, and Southern Towers BTS, LP, a Delaware limited partnership, as Tenant.

The Premises are described and/or depicted as follows:

100 x 100 square feet, with such easements as are necessary for the structure and initial installation of a communication tower, located on Tax Parcel No. 20-022-03 in the County of Taylor, State of Kentucky. This description will be replaced with a proper survey once received by Tenant.

Notes:

1. This Exhibit may be replaced by a land survey and/or construction drawings of the Premises once received by Tenant.
2. Any setback of the Premises from the Property's boundaries shall be the distance required by the applicable governmental authorities.
3. Width of access road shall be the width required by the applicable governmental authorities, including police and fire departments.
4. The type, number and mounting positions and locations of antennas and transmission lines are illustrative only. Actual types, numbers and mounting positions may vary from what is shown above.

EXHIBIT 3

RENT TABLE

(TO BE INSERTED)

Notification Listing with Screenshots

Parcel # 20-022-03
 MILLS MOTOR SALES LLC
 5321 GREENSBURG RD
 CAMPBELLSVILLE, KY 42718

qPublic.net Taylor County, KY PVA

Elizabeth Williams Search search

Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home Pictometry Imagery

Parcel Summary

Map Number 20-022-03
 Account Number 175257 (PID: 400963 PTID: 175257)
 Location Address 5321 GREENSBURG RD
 Tax District 01 County and County School
 Homestead No
 2023 Tax Rate 1.0165
 Property Class COMMERCIAL
 Description TR #3 (S.9119) & BLDG
 Acres 5.92
 Deed Information 294/230

[View Map](#)

Owner Information

Current Owner
 MILLS MOTOR SALES LLC
 5321 GREENSBURG RD
 CAMPBELLSVILLE, KY 42718

Land Information

Commercial Improvement Information

Certified Value Information



Working Value Information

Sales Information


Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
08/16/2013	\$58,250	294	338	IBP 2 LLC	Other

Columns

Information

Taylor County, KY
 203 North Court Street
 Suite #6
 Campbellsville, KY 42718
 Hours: 8:00-4:30 Mon - Fri



Property Valuation Administrator
 Chad Shively
 (270) 465-5811

Announcements

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Parcel # 20-033
 BENSKIN PAUL & JUDY
 1038 BLACK GNAT RD
 CAMPBELLSVILLE KY 42718

qPublic.net Taylor County, KY PVA

Elizabeth Williams Search search

Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home Pictometry Imagery

Parcel Summary

Map Number 20-033
 Account Number 149438 (PID: 395481 PTID: 149438)
 Location Address 1038 BLACK GNAT RD
 Tax District 01 County and County School
 Homestead Yes
 2023 Tax Rate 1.0365
 Property Class FARM
 Description HOUSE & 27.4315 ACRES (5 PARCELS)
 Acres 27.43
 Deed Information 159/473

[View Map](#)

Owner Information

Current Owner
 BENSKIN PAUL & JUDY
 1038 BLACK GNAT RD
 CAMPBELLSVILLE, KY 42718

Land Information

Residential Improvement Information

Certified Value Information

Working Value Information



Photos

Sketches


Recent Sales In Area

No data available for the following modules: Commercial improvement information, Mobile Home information, Sales information.

Information

Taylor County, KY
 203 North Court Street
 Suite #6
 Campbellsville, KY 42718
 Hours: 8:00-4:30 Mon - Fri



Property Valuation Administrator
 Chad Shively
 (270) 465-5811

Announcements

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Parcel # 20-024
 CURRY TIMMY T & PATRICIA
 921 BLACK GNAT RD
 CAMPBELLSVILLE KY 42718

qPublic.net™ Taylor County, KY PVA Elizabeth Williams ▾ Search search...

Layers ▾ Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home Pictometry Imagery

Parcel Summary

Map Number 20-024
 Account Number 174396 (PID: 400066 PTID: 174396)
 Location Address 921 BLACK GNAT ROAD
 Tax District 01 County and County School
 Homestead No
 2023 Tax Rate 1.0165
 Property Class RESIDENTIAL
 Description HOUSE 6.2 ACRE LOT
 Acres 2
 Deed Information 237/699

[View Map](#)

Owner Information

Current Owner
 CURRY TIMMY T & PATRICIA
 921 BLACK GNAT RD
 CAMPBELLSVILLE KY 42718

Land Information


Residential Improvement Information

Certified Value Information


Working Value Information

Sales Information


Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
02/01/2003	\$91,000			BOWMAN SHANE D	Arms Length Transaction
05/01/1990				BRAGG ELSIE	



Information



Taylor County, KY
 203 North Court Street
 Suite #6
 Campbellsville, KY 42718
 Hours: 8:00-4:30 Mon - Fri



Property Valuation Administrator
 Chad Shively
 (270) 465-5811

Announcements

[How to use the Reason site - view Demo Videos](#)

Parcel # 20-023
 MILLER CARL
 c/o CHARLAYNE GRAVES
 105 FAITH COURT
 ELIZABETHTOWN, KY 42701

qPublic.net™ Taylor County, KY PVA Elizabeth Williams ▾ Search search...

Layers ▾ Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home Pictometry Imagery

Parcel Summary

Map Number 20-023
 Account Number 182208 (PID: 407222 PTID: 182208)
 Location Address GREENSBURG RD
 Tax District 01 County and County School
 Homestead No
 2023 Tax Rate 1.0145
 Property Class RESIDENTIAL
 Description 1 ACRE MORE OR LESS ON G-BURG RD
 Acres 1
 Deed Information N/A/N/A

[View Map](#)

Owner Information

Current Owner
 MILLER CARL
 c/o CHARLAYNE GRAVES
 105 FAITH COURT
 ELIZABETHTOWN, KY 42701


Land Information

Certified Value Information


Working Value Information

Recent Sales In Area


Sale date range:
 From: 04/15/2021 To: 04/15/2024



Information



Taylor County, KY
 203 North Court Street
 Suite #6
 Campbellsville, KY 42718
 Hours: 8:00-4:30 Mon - Fri



Property Valuation Administrator
 Chad Shively
 (270) 465-5811

Announcements

[How to use the Reason site - view Demo Videos](#)

Parcel # 20-022-02
 EDWARDS KAREN ANN
 42 LISA LANE
 CAMPBELLSVILLE, KY 42718

qPublic.net Taylor County, KY PVA Elizabeth Williams Search search...

Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home Pictometry Imagery

Parcel Summary

Map Number: 20-022-02
 Account Number: 176192 (PID: 401735 PTID: 176192)
 Location Address: BLACK GNAT RD
 Tax District: 01 County and County School
 Homestead: No
 2023 Tax Rate: 1.0165
 Property Class: RESIDENTIAL
 Description: 3.5247 ACRES
 Acres: 3.5247
 Deed Information: 243/318

[View Map](#)

Owner Information

Current Owner
 EDWARDS KAREN ANN
 42 LISA LANE
 CAMPBELLSVILLE, KY 42718

Land Information


Certified Value Information

Working Value Information

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
11/20/2006		263	318	EDWARDS WILLIAM A & MARY LOU	Close Relative Sales

Information




Taylor County, KY
 203 North Court Street
 Suite #6
 Campbellsville, KY 42718
 Hours: 8:00-4:30 Mon. - Fri.



Property Valuation Administrator
 Chad Shively
 (270) 465-5811

Announcements

[How to use the Beacon site - view](#)

Parcel # 20-022-02-01
 GABEHART CHARLES TODD
 755 BLACK GNAT RD
 CAMPBELLSVILLE, KY 42718

qPublic.net Taylor County, KY PVA Elizabeth Williams Search search...

Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home Pictometry Imagery

Parcel Summary

Map Number: 20-022-02-01
 Account Number: 184370 (PID: 409039 PTID: 184370)
 Location Address: 755 BLACK GNAT RD
 Tax District: 01 County and County School
 Homestead: Yes
 2023 Tax Rate: 1.0165
 Property Class: RESIDENTIAL
 Description: 0.5165 ACRE & MOBILE HOME
 Acres: 0.5165
 Deed Information: 330/133

[View Map](#)

Owner Information

Current Owner
 GABEHART CHARLES TODD
 755 BLACK GNAT RD
 CAMPBELLSVILLE, KY 42718

Land Information

Mobile Home Information

Manufacturer	Model	Year Built	Exterior	Sqft	Width (ft)	Length (ft)	Pool	Value
INDI		1995	SOLID MASONRY	1,184	16	74		25000



Certified Value Information

Working Value Information


Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
01/20/2021	\$27,000	330	133	HARDIN KAREN (f/k/a EDWARDS)	Partial Sales

Information

Taylor County, KY
 203 North Court Street
 Suite #6
 Campbellsville, KY 42718
 Hours: 8:00-4:30 Mon. - Fri.



Property Valuation Administrator
 Chad Shively
 (270) 465-5811

Announcements

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Parcel # 20-022-01
 SPENCER JUSTIN
 5475 GREENSBURG ROAD
 CAMPBELLSVILLE KY 42718

qPublic.net™ Taylor County, KY PVA Elizabeth Williams Search search...

Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home Pictometry Imagery

Parcel Summary

Map Number 20-022-01
 Account Number 176563 (PID: 402075 PTID: 176563)
 Location Address 5475 GREENSBURG RD
 Tax District 01 County and County School
 Homestead No
 2023 Tax Rate 1.0165
 Property Class RESIDENTIAL
 Description HOUSE & 7.5022 ACRES (TR #1)
 Acres 7.5
 Deed Information 302/616

[View Map](#)

Owner Information

Current Owner
 SPENCER JUSTIN
 5475 GREENSBURG ROAD
 CAMPBELLSVILLE KY 42718

Land Information

Residential Improvement Information

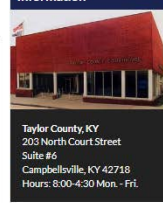
Certified Value Information

Working Value Information


Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
07/08/2015	\$147,000	302	616	WRIGHT JACKIE	Arms Length Transaction

Information



Taylor County, KY
 203 North Court Street
 Suite #6
 Campbellsville, KY 42718
 Hours: 8:00-4:30 Mon - Fri



Property Valuation Administrator
 Chad Shively
 (270) 465-5811

Announcements

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[Demo Videos](#)

Parcel # 20-022-01-01
 HAWKINS JON R
 736 CHRISTERSON LANE
 CAMPBELLSVILLE, KY 42718

qPublic.net™ Taylor County, KY PVA Elizabeth Williams Search search...

Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home Pictometry Imagery

Parcel Summary

Map Number 20-022-01-01
 Account Number 174747 (PID: 400398 PTID: 174747)
 Location Address 729 BLACK GNAT ROAD
 Tax District 01 County and County School
 Homestead No
 2023 Tax Rate 1.0165
 Property Class RESIDENTIAL
 Description HOUSE & 0.511 ACRES
 Acres 0.51
 Deed Information 325/31

[View Map](#)

Owner Information

Current Owner
 HAWKINS JON R
 736 CHRISTERSON LANE
 CAMPBELLSVILLE, KY 42718

Land Information

Residential Improvement Information

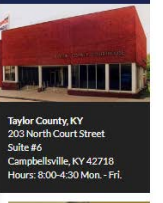
Certified Value Information

Working Value Information


Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
01/17/2020	\$54,200	325	31	SHIVELY JAMES S & BANDA ANN	Arms Length Transaction

Information



Taylor County, KY
 203 North Court Street
 Suite #6
 Campbellsville, KY 42718
 Hours: 8:00-4:30 Mon - Fri



Property Valuation Administrator
 Chad Shively
 (270) 465-5811

Announcements

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[Demo Videos](#)

Parcel # 20-035
 PATTON ELIZABETH & JON HAWKINS & OTHERS
 736 CHRISTERSON LANE
 CAMPBELLSVILLE KY 42718

qPublic.net Taylor County, KY PVA Elizabeth Williams Search search...

Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home Pictometry Imagery

Parcel Summary

Map Number 20-038
 Account Number 176624 (PID: 402133 PFTID: 176624)
 Location Address 734 BLACK GNAT ROAD
 Tax District 01 County and County School
 Homestead Yes
 2023 Tax Rate 1.0165
 Property Class MOBILE HOME
 Description HOUSE & 3.75% & DAUGHTER'S MOBILE HOME
 Acres 3.75
 Deed Information 344 819

[View Map](#)

Owner Information

Current Owner
 PATTON ELIZABETH & JON HAWKINS &
 OTHERS
 734 CHRISTERSON LANE
 CAMPBELLSVILLE KY 42718

Land Information

Residential Improvement Information

Mobile Home Information

Manufacturer	Model	Year Built	Exterior	Soft	Width (ft)	Length (ft)	Pool	Value
		0	SOLID MASONRY	980	14	70		2000


Certified Value Information

Working Value Information


Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
08/30/2023		344	819	SEBASTION GLORIA & ELIZABETH PATTON	Transfer Tax Not Paid
11/23/2009		278	384	MADDOX WESLEY MRS (ESTATE)	Close Relative Sales

Information



Taylor County, KY
 203 North Court Street
 Suite #6
 Campbellsville, KY 42718
 Hours: 8:00-4:30 Mon - Fri



Property Valuation Administrator
 Chad Strively
 (270) 465-5811

Announcements

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Parcel # 20-047A
 EDWARDS WILLIAM WAYNE & MARY LOU
 27 LISA LANE
 CAMPBELLSVILLE KY 42718

qPublic.net Taylor County, KY PVA Elizabeth Williams Search search...

Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home Pictometry Imagery

Parcel Summary

Map Number 20-047A
 Account Number 182203 (PID: 407217 PFTID: 182203)
 Location Address 27 LISA LANE
 Tax District 01 County and County School
 Homestead Yes
 2023 Tax Rate 1.0165
 Property Class RESIDENTIAL
 Description HOUSE & .78 ACRE LOT & BODY SHOP
 Acres 0.78
 Deed Information 305/620

[View Map](#)

Owner Information

Current Owner
 EDWARDS WILLIAM WAYNE & MARY LOU
 27 LISA LANE
 CAMPBELLSVILLE KY 42718

Land Information

Residential Improvement Information


Certified Value Information

Working Value Information


Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
03/19/2016		305	620	EDWARDS MARY LOU	Close Relative Sales
04/01/1993	\$36,000			EDWARDS WILLIAM (BILLY) &	Obligation Transfers

Information



Taylor County, KY
 203 North Court Street
 Suite #6
 Campbellsville, KY 42718
 Hours: 8:00-4:30 Mon - Fri



Property Valuation Administrator
 Chad Strively
 (270) 465-5811

Announcements

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Parcel # 20-047D-02
 ARMSTRONG LEONA & DOYLE & BUFORD TUNGATE
 2584 SMITH RIDGE RD
 CAMPBELLSVILLE KY 42718

qPublic.net Taylor County, KY PVA

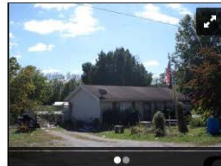
Elizabeth Williams Search search...

Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home Pictometry Imagery

Parcel Summary

Map Number 20-047D-02
 Account Number 175573 (PID: 401157 PTID: 175573)
 Location Address 810 BLACK GNAT RD
 Tax District 01 County and County School
 Homestead No
 2023 Tax Rate 1.0165
 Property Class RESIDENTIAL
 Description HOUSE & LOT
 Acres N/A
 Deed Information 298/787

[View Map](#)



Information



Taylor County, KY
 203 North Court Street
 Suite #6
 Campbellsville, KY 42718
 Hours: 8:00-4:30 Mon - Fri.



Property Valuation
 Administrator
 Chad Shively
 (270) 465-5811

Owner Information

Current Owner
 ARMSTRONG LEONA & DOYLE & BUFORD
 TUNGATE
 2584 SMITH RIDGE RD
 CAMPBELLSVILLE KY 42718

Land Information

Residential Improvement Information

Certified Value Information

Working Value Information

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
08/06/2014		298	787	TUNGATE LEON & LEONA ARMSTRONG	Close Relative Sales
01/01/1999	\$24,815			PERKINS VIRGIL	Arms Length Transaction
05/01/1989	\$1,700			PERKS BUILDERS CO	

Announcements

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Parcel # 20-047D-01
 EDWARDS MICHAEL
 830 BLACK GNAT RD
 CAMPBELLSVILLE, KY 42718

qPublic.net Taylor County, KY PVA

Elizabeth Williams Search search...

Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home Pictometry Imagery

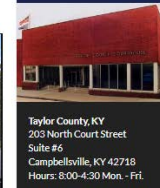
Parcel Summary

Map Number 20-047D-01
 Account Number 182090 (PID: 407120 PTID: 182090)
 Location Address 830 BLACK GNAT RD
 Tax District 01 County and County School
 Homestead No
 2023 Tax Rate 1.0165
 Property Class RESIDENTIAL
 Description HOUSE & 1.27 ACRES (4 PARCELS)
 Acres 1.27
 Deed Information 344/736

[View Map](#)



Information



Taylor County, KY
 203 North Court Street
 Suite #6
 Campbellsville, KY 42718
 Hours: 8:00-4:30 Mon - Fri.



Property Valuation
 Administrator
 Chad Shively
 (270) 465-5811

Owner Information

Current Owner
 EDWARDS MICHAEL
 830 BLACK GNAT RD
 CAMPBELLSVILLE, KY 42718

Land Information

Residential Improvement Information

Certified Value Information

Working Value Information

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
08/25/2023	\$135,000	344	736	POSEY LP	Multiple Properties
01/01/1998	\$32,000			PERKINS LUCILLE	Annual Twice Sold Property

Announcements

[How to use the Beacon site - view Demo Videos](#)

Parcel # 20-019-02
 OVERFELT STEVEN N & JASMINE S
 5673 GREENSBURG RD
 CAMPBELLSVILLE, KY 42718
 qPublic.net™ Taylor County, KY PVA

Elizabeth Williams Search search...

Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home Pictometry Imagery

Parcel Summary

Map Number: 20-019-02
 Account Number: 183791 (PID: 408408 PTID: 183791)
 Location Address: 5745 GREENSBURG RD
 Tax District: 01 County and County School
 Homestead: No
 2023 Tax Rate: 1.0165
 Property Class: FARM
 Description: HOUSE/GARAGE 6, 18.21 ACRES
 Acres: 18.21
 Deed Information: 324/021

[View Map](#)

Owner Information

Current Owner
 OVERFELT STEVEN N & JASMINE S
 5673 GREENSBURG RD
 CAMPBELLSVILLE, KY 42718

Land Information

Residential Improvement Information

Certified Value Information

Working Value Information


Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
01/10/2020	\$26,000	324	021	GILPIN LARRY LEWIS & DEBORAH L	Arms Length Transaction
07/05/2018		316	020	GILPIN WILLIAM PERRY & LARRY L	Transfer Tax Not Paid

Columns

Information

Taylor County, KY
 203 North Court Street
 Suite #6
 Campbellsville, KY 42718
 Hours: 8:00-4:30 Mon - Fri


 Property Valuation Administrator
 Chad Shively
 (270) 465-5811

Announcements

[How to use the Beacon site - video](#)
[Demo Videos](#)

Parcel # 20-019-03
 WILK VASILIKI
 2235 FRED BURNS RD
 RINEYVILLE KY 40162
 qPublic.net™ Taylor County, KY PVA

Elizabeth Williams Search search...

Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home Pictometry Imagery

Parcel Summary

Map Number: 20-019-03
 Account Number: 183787 (PID: 408494 PTID: 183787)
 Location Address: 5480 GREENSBURG RD
 Tax District: 01 County and County School
 Homestead: No
 2023 Tax Rate: 1.0165
 Property Class: FARM
 Description: 22.24 ACRE FARM
 Acres: 22.24
 Deed Information: 336/724

[View Map](#)

Owner Information

Current Owner
 WILK VASILIKI
 2235 FRED BURNS RD
 RINEYVILLE KY 40162

Land Information

Certified Value Information

Working Value Information

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
03/11/2022	\$147,000	336	724	SNYDER DUSTIN & EMILY	Arms Length Transaction

Columns

Information

Taylor County, KY
 203 North Court Street
 Suite #6
 Campbellsville, KY 42718
 Hours: 8:00-4:30 Mon - Fri


 Property Valuation Administrator
 Chad Shively
 (270) 465-5811

Announcements

Parcel # 20-002-03
 SALLEE GINA LYNN
 340 GRIBBINS RD
 CAMPBELLSVILLE, KY 42718

qPublic.net™ Taylor County, KY PVA

Elizabeth Williams Search search_ Q

- Layers
- Map
- Search
- Results
- Report**
- Sales Search
- Sales List
- Sales Results
- Tax Estimator
- Home
- Pictometry Imagery



Parcel Summary

Map Number 20-002-03
 Account Number 177363 (PID: 402820 PTID: 177363)
 Location Address GREENSBURG RD
 Tax District 01 County and County School
 Homestead No
 2023 Tax Rate 1.0165
 Property Class FARM
 Description TR #3 (18.3870@)
 Acres 13.39
 Deed Information 250/030

[View Map](#)

Owner Information

Current Owner
 SALLEE GINA LYNN
 340 GRIBBINS RD
 CAMPBELLSVILLE, KY 42718

Land Information

Certified Value Information

Working Value Information

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
11/01/2004	\$25,000			BRENNER DINA	Partial Sales

Columns

Information



Taylor County, KY
 203 North Court Street
 Suite #6
 Campbellsville, KY 42718
 Hours: 8:00-4:30 Mon. - Fri.



Property Valuation
 Administrator
 Chad Shively
 (270) 465-5811

Announcements

[How to use the Beacon site - view](#)

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

April 16, 2024

**Notice of Proposed Construction of
Wireless Communications Facility
Site Name: Black Gnat**

Cellco Partnership, d/b/a Verizon Wireless and Southern Towers BTS are filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility at 5321 Greensburg Rd., Campbellsville, KY 42718 (North Latitude: (37° 18' 27.79", West Longitude 85° 25' 53.11"). The proposed facility will include a 245-foot tall antenna tower, plus a 4-foot lightning arrestor and related ground facilities. Site name is Black Gnat. 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 2024-00098 in any correspondence sent in connection with this matter.

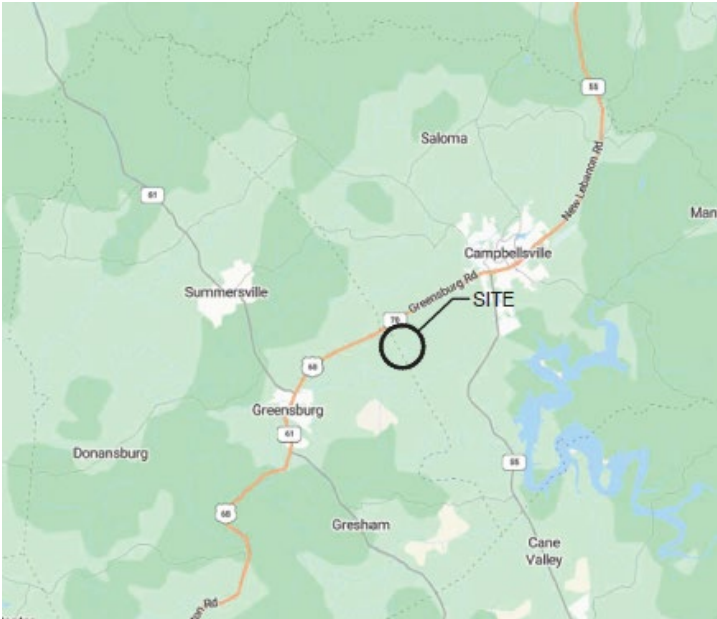
We have attached a map showing the site location for the proposed tower. Applicant's radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. 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 Maps



Vicinity Map



Focused Map on Aerial

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



9589 0710 5270 0471 4856 24

MILLS MOTOR SALES LLC
5321 GREENSBURG RD
CAMPBELLSVILLE, KY 42718

FIRST-CLASS



US POSTAGE^{IMPITNEY BOWES}



ZIP 46204 \$ 008.69⁰
02 7H
0006035028 APR 16 2024

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Clark, Quinn, Moses, Scott & Grahn, LLP



9589 0710 5270 0471 4856 31

BENSKIN PAUL & JUDY
1038 BLACK GNAT RD
CAMPBELLSVILLE KY 42718

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CURRY TIMMY T & PATRICIA
921 BLACK GNAT RD
CAMPBELLSVILLE KY 42718

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MILLER CARL
c/o CHARLAYNE GRAVES
105 FAITH COURT
ELIZABETHTOWN, KY 42701

FIRST-CLASS



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EDWARDS KAREN ANN
42 LISA LANE
CAMPBELLSVILLE, KY 42718

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GABEHART CHARLES TODD
755 BLACK GNAT RD
CAMPBELLSVILLE, KY 42718

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SPENCER JUSTIN
5475 GREENSBURG ROAD
CAMPBELLSVILLE KY 42718

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HAWKINS JON R
736 CHRISTERSON LANE
CAMPBELLSVILLE, KY 42718

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Clark, Quinn, Moses, Scott & Grahn, LLP



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PATTON ELIZABETH &
JON HAWKINS & OTHERS
736 CHRISTERSON LANE
CAMPBELLSVILLE KY 42718

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EDWARDS WILLIAM WAYNE
& MARY LOU
27 LISA LANE
CAMPBELLSVILLE KY 42718

FIRST-CLASS



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ARMSTRONG LEONA & DOYLE &
BUFORD TUNGATE
2584 SMITH RIDGE RD
CAMPBELLSVILLE KY 42718

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Clark, Quinn, Moses, Scott & Grahn, LLP



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EDWARDS MICHAEL
830 BLACK GNAT RD
CAMPBELLSVILLE, KY 42718

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Clark, Quinn, Moses, Scott & Grahn, LLP



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OVERFELT STEVEN N & JASMINE S
5673 GREENSBURG RD
CAMPBELLSVILLE, KY 42718

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WILK VASILIKI
2235 FRED BURNS RD
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SALLEE GINA LYNN
340 GRIBBINS RD
CAMPBELLSVILLE, KY 42718

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1. Article Addressed to:

MILLER CARL
 c/o CHARLAYNE BULLS
 105 FAITH COURT
 ELIZABETHTOWN, KY 42701



9590 9402 8749 3310 9106 76

2. Article Number (Transfer from service label)

9589 0710 5270 0471 4856 55

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent
 Addressee
- B. Received by (Printed Name) *CROSS* C. Date of Delivery *4/19/24*
- D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

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 | |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Registered Mail Restricted Delivery (0) | |

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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- Print your name and address on the reverse so that we can return the card to you.
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1. Article Addressed to:

PATTON ELIZABETH &
 JON HAWKINS & OTHERS
 736 CHRISTERSON LANE
 CAMPBELLSVILLE KY 42718



9590 9402 8749 3310 9106 21

2. Article Number (Transfer from service label)

9589 0710 5270 0471 4857 09

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent
 Addressee
- B. Received by (Printed Name) *Jon Hawkins* C. Date of Delivery *4-20-24*
- D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

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 | |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Registered Mail Restricted Delivery (0) | |

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:

HAWKINS JON R
 736 CHRISTERSON LANE
 CAMPBELLSVILLE, KY 42718



9590 9402 8749 3310 9106 38

2. Article Number (Transfer from service label)

9589 0710 5270 0471 4856 93

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent
 Addressee
- B. Received by (Printed Name) *Jon Hawkins* C. Date of Delivery *4-20-24*
- D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

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 | |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Registered Mail Restricted Delivery (0) | |

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:

WIL VASILIKI
2235 FRED BURNS RD
RINEYVILLE KY 40162



9590 9402 8749 3310 9110 00

2. Article Number (Transfer from service label)
9589 0710 5270 1623 2624 83

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Huuk* Agent Addressee

B. Received by (Printed Name) *Huuk* C. Date of Delivery *4/19/24*

D. Is delivery address different from item 1? Yes No
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
 - Insured Mail
 - Registered Mail Restricted Delivery (500)
 - 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:

SALIEE C LYNN
340 GRIBBINS RD
CAMPBELLSVILLE, KY 42718



9590 9402 8749 3310 9109 97

2. Article Number (Transfer from service label)
9589 0710 5270 1623 2624 76

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Shirley* Agent Addressee

B. Received by (Printed Name) *Anna Cox* C. Date of Delivery *4/16/24*

D. Is delivery address different from item 1? Yes No
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
 - Insured Mail
 - Registered Mail Restricted Delivery (500)
 - 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:

AR: STRONG LEONA & DOYLE &
BURD TUNGATE
2584 SPURH RIDGE RD
CAMPBELLSVILLE KY 42718



9590 9402 8749 3310 9106 07

2. Article Number (Transfer from service label)

9589 0710 5270 0471 4857 23

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Jacobi Armstrong

MS +

B. Received by (Printed Name)

Jacobi Armstrong

C. Date of L...

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
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restrict Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Mail Restricted Delivery (00)

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USPS Tracking®

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USPS Tracking Plus®

Feedback

Delivered

Out for Delivery

Preparing for Delivery

Moving Through Network

In Transit to Next Facility

April 22, 2024

Arrived at USPS Regional Facility

LOUISVILLE KY DISTRIBUTION CENTER

April 18, 2024, 1:13 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)

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Product Information



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FAQs

ALERT: SEVERE WEATHER IN THE SOUTH, SOUTHEAST, AND MIDWEST MAY IMPACT DELIVE...

USPS Tracking®

[FAQs >](#)

Tracking Number:

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9589071052700471485648

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[Add to Informed Delivery \(https://informedelivery.usps.com/\)](https://informedelivery.usps.com/)

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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

April 22, 2024

Arrived at USPS Regional Facility

LOUISVILLE KY DISTRIBUTION CENTER

April 18, 2024, 1:13 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



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Track Another Package

Need More Help?

Contact USPS Tracking support for further assistance.

FAQs

ALERT: SEVERE WEATHER IN THE SOUTH, SOUTHEAST, AND MIDWEST MAY IMPACT DELIVE...

USPS Tracking®

[FAQs >](#)

Tracking Number:

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9589071052700471485662

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Feedback

Delivered

Out for Delivery

Preparing for Delivery

Moving Through Network

In Transit to Next Facility

April 22, 2024

Arrived at USPS Regional Facility

LOUISVILLE KY DISTRIBUTION CENTER

April 18, 2024, 1:13 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)

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FAQs

ALERT: SEVERE WEATHER IN THE SOUTH, SOUTHEAST, AND MIDWEST MAY IMPACT DELIVE...

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Out for Delivery

Preparing for Delivery

Moving Through Network

In Transit to Next Facility

April 22, 2024

Arrived at USPS Regional Facility

LOUISVILLE KY DISTRIBUTION CENTER

April 18, 2024, 1:13 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



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Need More Help?

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FAQs

ALERT: SEVERE WEATHER IN THE SOUTH, SOUTHEAST, AND MIDWEST MAY IMPACT DELIVE...

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Moving Through Network

In Transit to Next Facility

May 1, 2024

Moved, Left no Address

CAMPBELLSVILLE, KY 42718

April 24, 2024, 9:06 am

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Text & Email Updates



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Track Another Package

Enter tracking or barcode numbers

Need More Help?

Contact USPS Tracking support for further assistance.

[FAQs](#)

ALERT: SEVERE WEATHER IN THE SOUTH, SOUTHEAST, AND MIDWEST MAY IMPACT DELIVE...

USPS Tracking®

[FAQs >](#)

Tracking Number:

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9589071052700471485679

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Preparing for Delivery

Moving Through Network

In Transit to Next Facility

April 22, 2024

Arrived at USPS Regional Facility

LOUISVILLE KY DISTRIBUTION CENTER

April 18, 2024, 11:07 am

[See All Tracking History](#)

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Product Information



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Need More Help?

Contact USPS Tracking support for further assistance.

FAQs

ALERT: SEVERE WEATHER IN THE SOUTH, SOUTHEAST, AND MIDWEST MAY IMPACT DELIVE...

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[FAQs >](#)

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9589071052700471485624

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April 22, 2024

Arrived at USPS Regional Facility

LOUISVILLE KY DISTRIBUTION CENTER

April 18, 2024, 1:35 pm

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USPS Tracking Plus®



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Track Another Package

Need More Help?

Contact USPS Tracking support for further assistance.

FAQs

ALERT: SEVERE WEATHER IN THE SOUTH, SOUTHEAST, AND MIDWEST MAY IMPACT DELIVE...

USPS Tracking®

[FAQs >](#)

Tracking Number:

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9589071052700471485747

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Preparing for Delivery

Moving Through Network

In Transit to Next Facility

April 22, 2024

Arrived at USPS Regional Facility

LOUISVILLE KY DISTRIBUTION CENTER

April 18, 2024, 1:13 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



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Track Another Package

Need More Help?

Contact USPS Tracking support for further assistance.

FAQs

ALERT: SEVERE WEATHER IN THE SOUTH, SOUTHEAST, AND MIDWEST MAY IMPACT DELIVE...

USPS Tracking®

[FAQs >](#)

Tracking Number:

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9589071052700471485686

[Copy](#)

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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.

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April 22, 2024

Arrived at USPS Regional Facility

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April 18, 2024, 1:35 pm

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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



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Product Information



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Track Another Package

Need More Help?

Contact USPS Tracking support for further assistance.

FAQs



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

May 9, 2024

**Notice of Proposed Construction of
Wireless Communications Facility
Site Name: Black Gnat**

Cellco Partnership, d/b/a Verizon Wireless and Southern Towers BTS are filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility at 5321 Greensburg Rd., Campbellsville, KY 42718 (North Latitude: (37° 18' 27.79", West Longitude 85° 25' 53.11"). The proposed facility will include a 245-foot tall antenna tower, plus a 4-foot lightning arrestor and related ground facilities. Site name is Black Gnat. This facility is needed to provide improved coverage for wireless communications in the area.

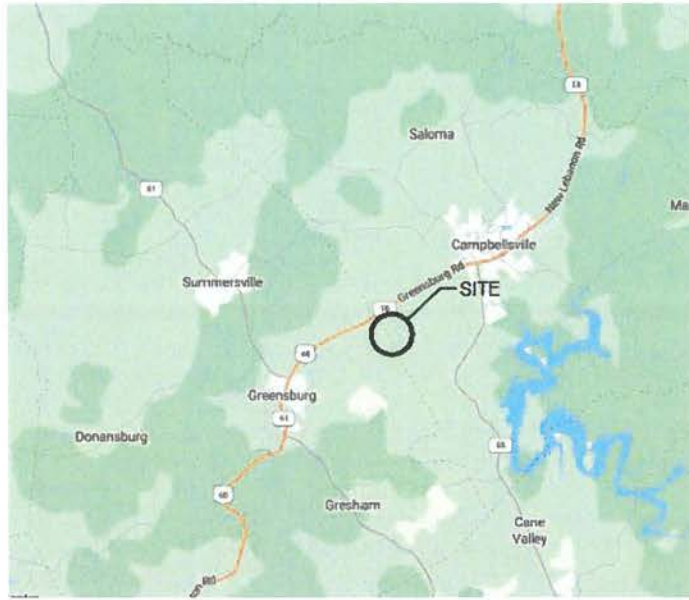
This notice is being sent to you because the County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous to the property on which the tower is to be constructed. You have a right to submit testimony to the 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 2024-00098 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 Maps



Vicinity Map



Focused Map on Aerial

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



7012 0470 0001 8048 4415

BENSKIN PAUL & JUDY
1038 BLACK GNAT RD
CAMPBELLSVILLE KY 42718

FIRST-CLASS



US POSTAGETM PITNEY BOWES



ZIP 46204 \$ 008.69⁰
02 7H
0006035028 MAY 09 2024

CERTIFIED MAILTM

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



7012 0470 0001 8048 4408

CURRY TIMMY T & PATRICIA
921 BLACK GNAT RD
CAMPBELLSVILLE KY 42718

FIRST-CLASS



US POSTAGETM PITNEY BOWES



ZIP 46204 \$ 008.69⁰
02 7H
0006035028 MAY 09 2024

CERTIFIED MAILTM

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



7012 0470 0001 8048 4392

EDWARDS KAREN ANN
42 LISA LANE
CAMPBELLSVILLE, KY 42718

FIRST-CLASS



US POSTAGETM PITNEY BOWES



ZIP 46204 \$ 008.69⁰
02 7H
0006035028 MAY 09 2024

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



7012 0470 0001 8048 4354

EDWARDS MICHAEL
830 BLACK GNAT RD
CAMPBELLSVILLE, KY 42718

FIRST-CLASS



US POSTAGE^{IMI}PITNEY BOWES



ZIP 46204 \$ 008.69⁰
02 7H
0006035028 MAY 09 2024

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



7012 0470 0001 8048 4361

EDWARDS WILLIAM WAYNE
& MARY LOU
27 LISA LANE
CAMPBELLSVILLE KY 42718

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US POSTAGE^{IMI}PITNEY BOWES



ZIP 46204 \$ 008.69⁰
02 7H
0006035028 MAY 09 2024

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



7012 0470 0001 8048 4385

GABEHART CHARLES TODD
755 BLACK GNAT RD
CAMPBELLSVILLE, KY 42718

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US POSTAGE^{IMI}PITNEY BOWES



ZIP 46204 \$ 008.69⁰
02 7H
0006035028 MAY 09 2024

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



7012 0470 0001 8048 4422

MILLS MOTOR SALES LLC
5321 GREENSBURG RD
CAMPBELLSVILLE, KY 42718

FIRST-CLASS



US POSTAGETM PITNEY BOWES



ZIP 46204 \$ 008.69⁰
02 7H
0006035028 MAY 09 2024

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7012 0470 0001 8048 4347

OVERFELT STEVEN N & JASMINE S
5673 GREENSBURG RD
CAMPBELLSVILLE, KY 42718

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ZIP 46204 \$ 008.69⁰
02 7H
0006035028 MAY 09 2024

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



7012 0470 0001 8048 4378

SPENCER JUSTIN
5475 GREENSBURG ROAD
CAMPBELLSVILLE KY 42718

FIRST-CLASS



US POSTAGETM PITNEY BOWES



ZIP 46204 \$ 008.69⁰
02 7H
0006035028 MAY 09 2024



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

April 16, 2024

Via Certified Mail, Return Receipt Requested
9589 0710 5270 0471 4856 17

Barry Smith, Judge Executive
Taylor County
203 North Court Street
Campbellsville, KY 42718

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2024-00098
Site Name: Black Gnat

Dear Judge Smith:

Cellco Partnership, d/b/a Verizon Wireless and Southern Towers BTS are filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 5321 Greensburg Rd., Campbellsville, KY 42718 (North Latitude: (37° 18' 27.79", West Longitude 85° 25' 53.11"). The proposed facility will include a 245-foot tall antenna tower, plus a 4-foot lightning arrestor and related ground facilities. Site name is Black Gnat. 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 2024-00098 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.

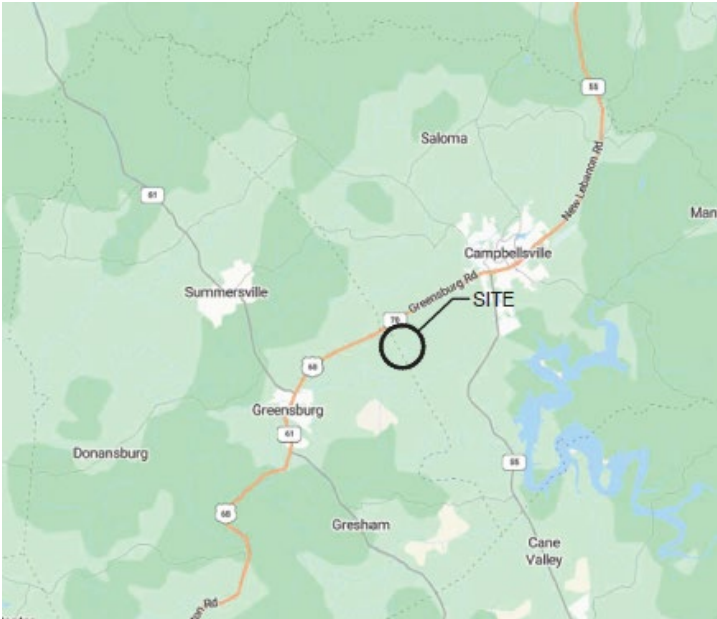
Sincerely,
Russell L. Brown

A handwritten signature in black ink, appearing to read 'RLB'.

Attorney for Applicant
RLB/mnw

Enclosures

Location Maps



Vicinity Map



Focused Map on Aerial

CERTIFIED MAIL

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



9589 0710 5270 0471 4856 17

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02 7H
0006035028

\$ 008.69⁰
APR 16 2024

Barry Smith, Judge Executive
Taylor County
203 North Court Street
Campbellsville, KY 42718

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:

Barry Smith, ~~Judge~~ Executive
Taylor County
203 North Court Street
Campbellsville, KY 42718



9590 9402 8749 3310 9108 50

2. Article Number (Transfer from service label)

9589 0710 5270 0471 4856 17

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Handwritten Signature]*

- Agent
- Addressee

B. Received by (Printed Name)

Hallie N.

C. Date of Delivery

4/19/24

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 (300)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

SITE NAME: Black Gnat 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.

Cellco Partnership, d/b/a Verizon Wireless and APC Towers propose 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 2024-00098 in your correspondence.

Cellco Partnership, d/b/a Verizon Wireless and APC Towers propose 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 2024-00098 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: cs_queue@messenger-inquirer.com

Land Use Consultant
Elizabeth Bentz Williams, AICP

Central Kentucky News-Journal
200 Albion Way
Campbellsville, KY 42718

*Also admitted in Montana
†Also admitted in Kentucky
**

Registered Civil Mediator

RE: Legal Notice Advertisement
Site Name: Black Gnat

To Whom It May Concern,

Please publish the following legal notice advertisement in the next available edition of the Central Kentucky News-Journal, serving Taylor County:

NOTICE

Cellco Partnership, d/b/a Verizon Wireless and Southern Towers BTS are filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 5321 Greensburg Rd., Campbellsville, KY 42718 (North Latitude: (37° 18' 27.79", West Longitude 85° 25' 53.11"). The proposed facility will include a 245-foot tall antenna tower, plus a 4-foot lightning arrestor and related ground facilities. Site name is Black Gnat. 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 2024-00098 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

RF Design Search Area





January 30, 2024

RE: Proposed Cellco Partnership d/b/a Verizon Wireless Communications

Facility Site Name: CK Black Gnat

Type of Tower: 245 ft. Self-Support Lattice

Location: 5321 Greensburg Rd, Campbellsville, KY 42718

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, CK Black Gnat.

The CK Black Gnat site is proposed with the below objectives:

1. To improve cellular service in Black Gnat and the surrounding area.
2. To improve service along HWY 68.
3. To offload existing traffic of existing Verizon sites in this area.

Currently the area is experiencing poor service along HWY 68 and in the city of Black Gnat. There is a high demand for wireless high-speed data and phone service in this area. This tower is needed to provide all Verizon customers in the area with the best experience on their wireless devices.

Raw Land – Design plans for a new tower would provide overall tower height of 245' with a Verizon Wireless Centerline of 240'. The new structure height was decided upon to best cover the city of Black Gnat, HWY 68, and to offload traffic from the nearby 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 cover 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 is proposed to be placed near the center of the problem area. The new tower design solves the stated objectives.

Verizon Wireless cares about the communities as well as the environment and prefers to collocate on existing structures when available. Verizon Wireless is currently collocated on some 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 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.

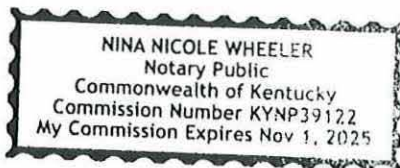
Since collocation is generally the most cost-effective means for prompt deployment of new facilities, Verizon Wireless makes every effort to investigate the feasibility for using existing towers or other tall structures for collocation when designing a new site or system expansion. However, collocation 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,

Steven Belcher
Sr RF Engineer
Verizon Wireless

1/30/24

Nina Nicole Wheeler
notary public





January 30, 2024

RE: Zoning Plots

Site Name: CK Black Gnat

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, outages, customer's equipment, terrain, proximity to buildings, foliage, and weather that may impact service.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Belcher", written over a horizontal line.

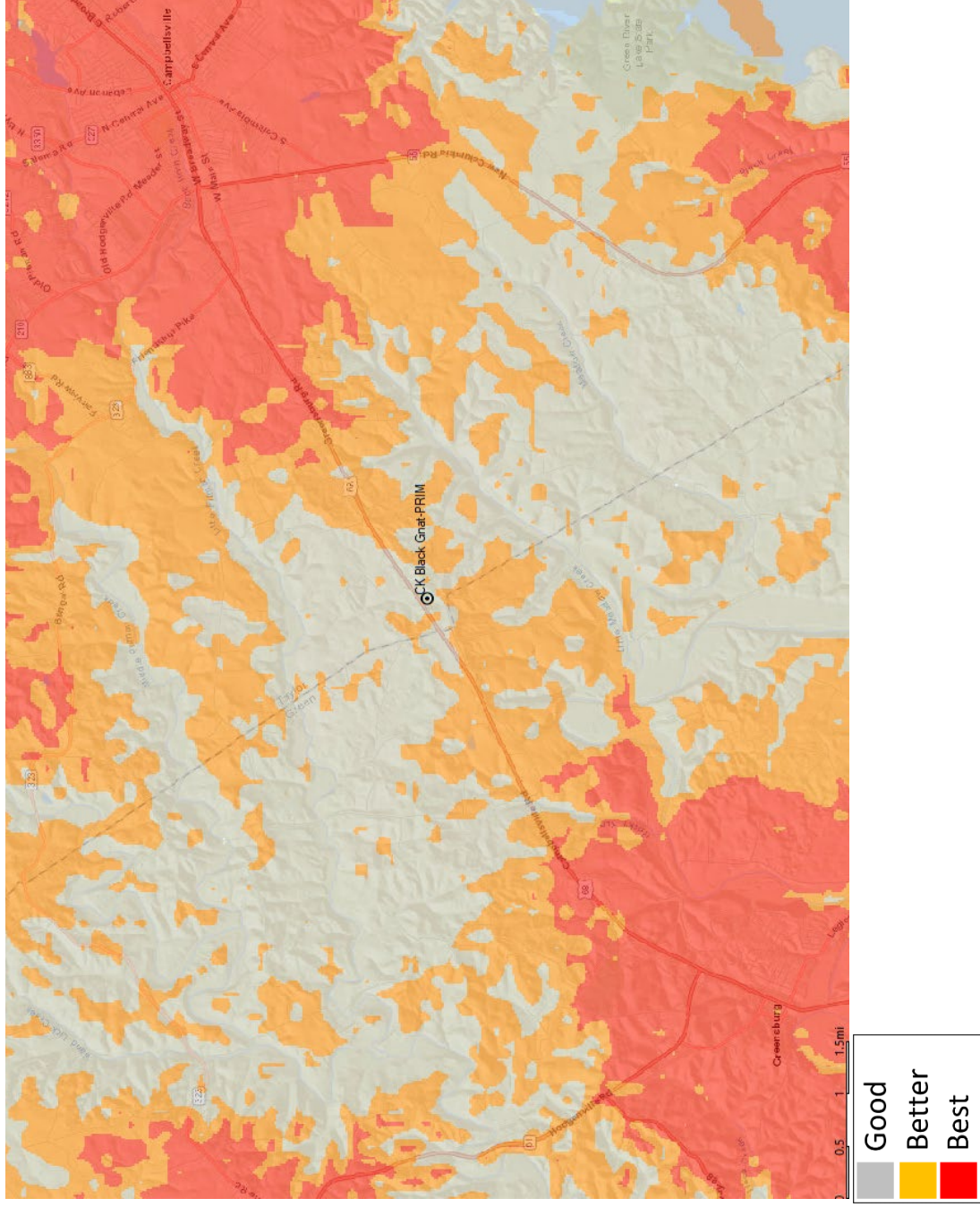
Steven Belcher

Sr RF Engineer

Verizon Wireless



Current Coverage - Without proposed site CK Black Gnat





Coverage - With proposed site CK Black Gnat

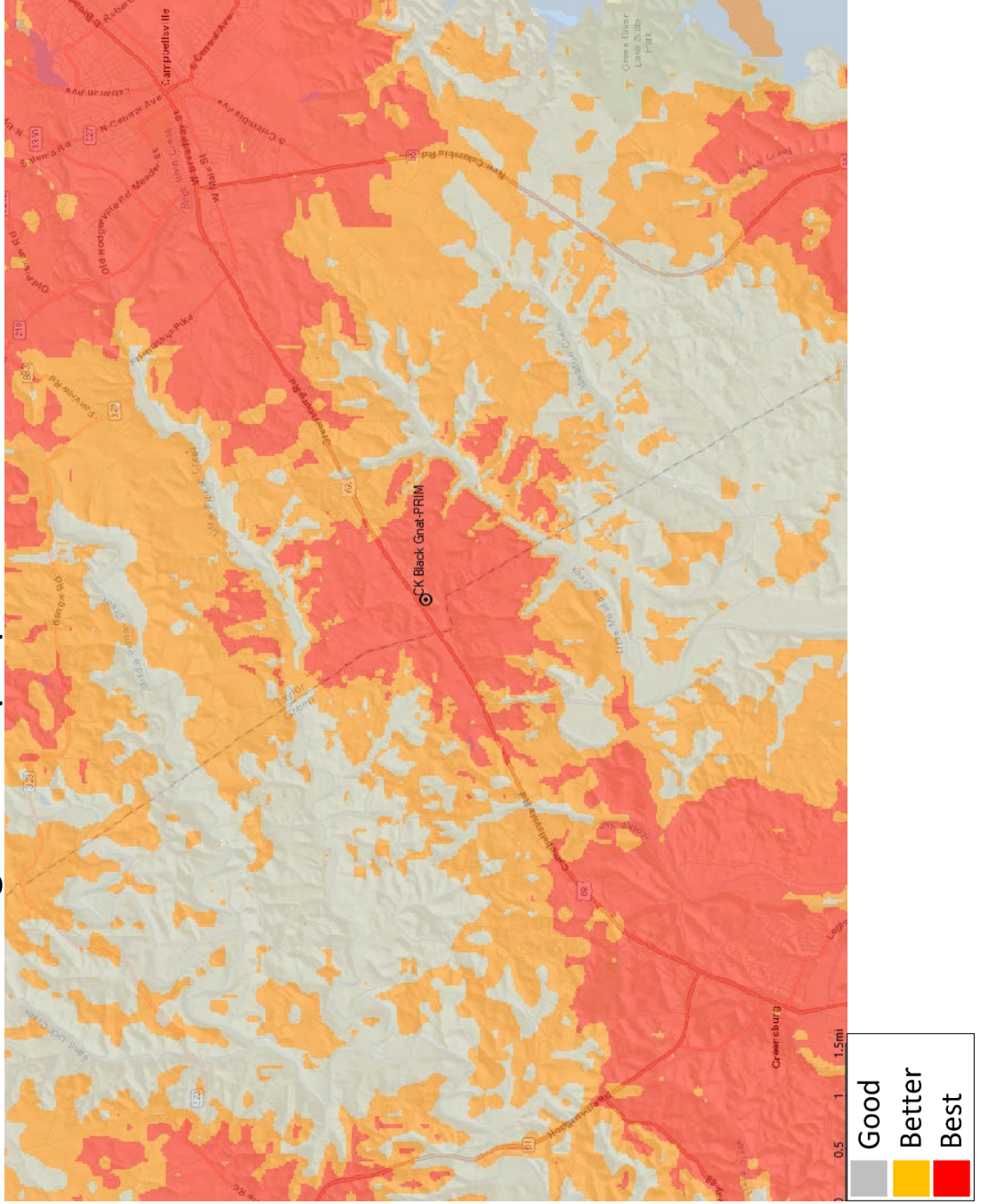


Exhibit S
List and Identity and Qualifications of Professionals

Dmitriy V. Albul
Professional Engineer
Kentucky License 25093
LAB
49030 Pontiac Trail, Suite 100
Wixom, Michigan, 48393

Frank L. Sellinger, II
Professional Land Surveyor
Kentucky License 3282
FSTAN
1012 S. 4th Street, Suite 101
Louisville, KY 40203

Joseph V. Borrelli
Professional Engineer
Kentucky License 30809
Delta Oaks Group
4904 Professional Court, Second Floor
Raleigh, NC, 27609

Allen Scheider
Professional Engineer
Kentucky License 37506
ROHN
1 Fairholm Avenue
Peoria, IL 61603

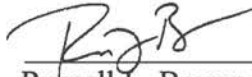
Larry Rhoads
Construction Manager
Verizon Wireless
2421 Holloway Road
Louisville, KY 40299

Steven Belcher
RF Engineer
Verizon Wireless
2421 Holloway Road
Louisville, KY 40299

STATE OF INDIANA)
) SS:
COUNTY OF MARION)

**AFFIDAVIT OF CERTIFICATION
COMMONWEALTH OF KENTUCKY
PUBLIC SERVICE COMMISSION**

I Russell L. Brown, attorney for Cellco Partnership, d/b/a Verizon Wireless do hereby certify that as the person supervising the preparation of this application and all statements and information contained herein are true and accurate to the best of that person’s knowledge, information, and belief formed after a reasonable inquiry for all information within this application.



Russell L. Brown
Attorney, for Cellco Partnership, d/b/a Verizon Wireless

STATE OF INDIANA,
COUNTY OF MARION, SS:
Subscribed and sworn to before me this 15th day of May, 2024.



Notary Public
Printed Name of Notary: Elizabeth Bentz Williams
My commission expires: November 18, 2028
My County of Residence: Marion
Commission #: 0639620

