

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

In the Matter of:

THE APPLICATION OF APC TOWERS IV, LLC, AND)	
CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS)	
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC)	CASE NO. 2025-00369
CONVENIENCE AND NECESSITY TO CONSTRUCT A)	
WIRELESS COMMUNICATIONS FACILITY IN THE)	
COMMONWEALTH OF KENTUCKY IN THE COUNTY)	
OF HART)	

SITE NAME: BONNIEVILLE

* * * * *

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

APC Towers IV, LLC and Cellco Partnership, d/b/a Verizon Wireless and (“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. APC Towers IV, LLC, having a local address of 8601 Six Forks Rd; Raleigh, NC 27615

- b. Cellco Partnership, d/b/a Verizon Wireless, having a local address of 2902 Ring Road, Elizabethtown, KY, 42701.

2. Co-Applicants:

- a. APC Towers IV, LLC is a Delaware limited liability company and copies of the formulation document and the Statement of Good Standing from Delaware, and the Certificate of Authorization is on file with the Secretary of State of Commonwealth of Kentucky, are included as part of **Exhibit A**.
- b. 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**.

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' application for 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. The approved ASR will be provided as soon as received.

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-Applicants' RF Design Engineers 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 located at 98 Wright Lane; Bonnieville KY 42713 (North Latitude: (37° 23' 02.97", West Longitude 85° 55' 15.16", 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 Tommy Shirley & Kara Shirley to a Deed recorded in Deed Book 388 Page 342 recorded on June 5, 2025, in the office of the Hart County Clerk. The proposed WCF will consist of a 245-foot-tall tower, with an approximately 5-foot tall lightning arrestor attached at the top, for a total height of 250-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of the Co-Applicants' radio electronics equipment and appurtenant equipment. The Co-Applicants' 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") is attached as **Exhibit F**. The determination of no hazard will be provided as soon as received.

12. A copy of the Kentucky Airport Zoning Commission ("KAZC") documentation of Application is attached as **Exhibit G**. The KAZC Approval will be provided as soon as received.

13. A geotechnical engineering report was performed at the WCF site by Engineered Tower Solutions, PLLC, 3227 Wellington Court, Raleigh, NC 27615, dated November 4, 2025 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 Jay Parker 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 21099C0045C, Dated July 18, 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 Marshall County PVA on November 14, 2025. **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 November 14, 2025, using the Hart County Kentucky Property Valuation Administration records and a copy of the form of the notice sent by certified mail to each landowner on November 17, 2025, are attached as **Exhibit K** and **Exhibit L**, respectively. Eight (8) notices were sent to surrounding property owners; to date five (5) notice green cards have been returned. Copies of the mailed envelopes and returned green cards are included in **Exhibit L**. One notice has been delivered with no green card returned, one notice has been identified as undeliverable due to no forwarding address, and one notice has been identified as undeliverable to the Welson Cemetery.

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 Hart County, Kentucky. The site is located at 98 Wright Lane; Bonnieville KY 42713. The site sits back from Wright Lane +/- 750-feet allowing for distance buffering from the roadway. The area is largely undeveloped with sporadic residential development occurring along roadways. The parcel is open pasture containing two existing hay barns. The terrain is rolling with gradual elevation increases from west to east. There is no zoning or Plan Commission in this area of Hart County. The proposed facility is removed a significant distance from any residential structures. The nearest residential structure is 585' – 7" 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.

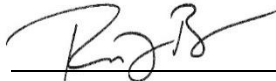
28. All Exhibits to this Application are hereby incorporated by reference as if fully set out as part of the Application.

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 Documentation of Application
- H Geotechnical Report
- I Directions to WCF Site
- J Real Estate Agreement
- K Notification Listing with PVA Verification
- L Property Owner Notification
- M County Judge/Executive notice
- N Posted Notices
- O Newspaper Legal Notice Advertisement
- P Radio Frequency Design Search Area
- Q Copy of RF Design Engineer Statement of Need
- R Propagation Maps
- S List of Qualified Professionals
- T Affidavit of Certification

Delaware

The First State

Page 1

I, CHARUNI PATIBANDA-SANCHEZ, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "APC TOWERS IV, LLC" 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 FIFTH DAY OF MAY, A.D. 2025.

AND I DO HEREBY FURTHER CERTIFY THAT THE SAID "APC TOWERS IV, LLC" WAS FORMED ON THE THIRD DAY OF MARCH, A.D. 2022.

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



6650861 8300

SR# 20251979186

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

A handwritten signature in black ink, reading "C. P. Sanchez", is written over a horizontal line.

Charuni Patibanda-Sanchez, Secretary of State

Authentication: 203603171

Date: 05-05-25

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: 343271
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,

APC TOWERS IV, LLC

, a limited liability company 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 February 22, 2023.

I further certify that all fees and penalties owed to the Secretary of State have been paid; that an application for certificate of withdrawal 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 3rd day of September, 2025, in the 234th year of the Commonwealth.



Michael G. Adams

Michael G. Adams
Secretary of State
Commonwealth of Kentucky
343271/1262373

Delaware

The First State

Page 1

I, CHARUNI PATIBANDA-SANCHEZ, 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 FOURTEENTH DAY OF FEBRUARY, A.D. 2025.

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



3341134 8300

SR# 20250539476

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

A handwritten signature in cursive script, reading "C. P. Sanchez", written over a horizontal line.

Charuni Patibanda-Sanchez, Secretary of State

Authentication: 202935577

Date: 02-14-25



Michael G. Adams
Secretary of State

Certificate

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

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

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



Michael G. Adams

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

COMMONWEALTH OF KENTUCKY
TREY GRAYSON
SECRETARY OF STATE



0641227.07

Dcornish
C226

Trey Grayson
Secretary of State
Received and Filed

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

CERTIFICATE OF ASSUMED NAME

This certifies that the assumed name of
Verizon Wireless

[Name under which the business will be conducted]

has been adopted by See Addendum

[Real name - KRS 365.015(1)]

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

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

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

One Verizon Way Basking Ridge NJ 07920

Street address, if any

City

State

Zip Code

The certificate of assumed name is executed by

NYNEX PCS Inc.

Jane A. 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

**FCC Form 854
Main Form**

Approved by OMD – 3060-0139
See instructions for public burden estimate

Application for Antenna Structure Registration

Purpose of Filing

1) Enter the application purpose: (AM)	
AM – Amendment of a Pending Application AU – Administrative Update CA – Cancellation of an Antenna Structure Registration DI – Notification of an Antenna Structure Dismantlement MD – Modification of a Antenna Structure Registration	NE – Registration of a New Antenna Structure NT – Required Construction/Alteration Notification OC – Ownership Change RE – Registration of a Replacement Antenna Structure WD – Withdrawal of a Pending Application
2a) If the answer to 1 is AU, CA, DI, MD, NT, OC or RE, provide the FCC Antenna Structure Registration (ASR) Number.	FCC ASR Number:
2b) If the answer to 1 is AM or WD, provide the File Number of the pending application on file.	File Number: A1339636
2c) If the answer to 1 is MD or NT, provide the date the Antenna Structure was constructed or the date it was last altered (mm/dd/yyyy).	Date:
2d) If the answer to 1 is DI, provide the date the Antenna Structure was dismantled (mm/dd/yyyy).	Date:

Antenna Structure Ownership Information

3) Select one of the entity types:			
() Individual	() Unincorporated Association	() Trust	() Government Entity
() Corporation	(X) Limited Liability Company	() General Partnership	() Limited Partnership
() Consortium	() Limited Liability Partnership	() Other: _____	
4) FCC Registration Number (FRN): 0023897788		5) Assignor FCC Registration Number (FRN):	
6) First Name (if individual):	MI:	Last Name:	Suffix:
7) Legal Entity Name (if not an individual): APC Towers, LLC			
8) Attention To: Jonathan Greene		9) P.O. Box:	And/Or
10a) Street Address 1: 8601 Six Forks Road		10b) Street Address 2: Suite 250	
11) City: Raleigh	12) State: NC	13) Zip Code: 27615	
14) Telephone Number (xxx-xxx-xxxx): (919) 757-3900		15) Fax Number: (xxx-xxx-xxxx):	
16) E-mail Address: jgreene@apctowers.com			

Contact Representative Information

17) First Name (if individual): Eric	MI:	Last Name: Johnson	Suffix:
18) Business Name: ECA-USA			
19) Attention To: Eric Johnson	20) P.O. Box 6672040		And/Or
21a) Street Address 1: 1375 Union Hill Industrial Court		21b) Street Address 2:	
22) City: Alpharetta	23) State: GA	24) Zip Code: 30004	
25) Telephone Number (xxx-xxx-xxxx): (770) 667-2040		26) Fax Number: (xxx-xxx-xxxx):	
27) E-mail Address: eric.johnson@eca-usa.com			

Antenna Structure Information

28a) Latitude (DD-MM-SS.S): 37- 23- 03.0		28b) North or South: North	
29a) Longitude (DDD-MM-SS.S): 085- 55- 15.2		29b) East or West: West	
30) Street Address or Geographic Location: Wright Lane		31) City: Bonnieville	
32) County: HART	33) State: KENTUCKY	34) Zip Code: 42713	
35) Elevation of site above mean sea level (meters):			207.9 meters
36) Overall height above ground level (AGL) of the supporting structure without appurtenances:			74.7 meters
37) Overall height above ground level (AGL) of the antenna structure including all appurtenances:			76.2 meters
38) Overall height above mean sea level (add items 35 and 37 together):			284.1 meters
39a) Enter the type of structure on which the antenna will be mounted: (GTOWER) <div style="display: flex; justify-content: space-between;"> <div> B – Building BANT – Building with Antenna on Top BMAST – Building with Mast BPIPE – Building with Pipe BPOLE – Building with Pole BRIDG – Bridge BTWR – Building with Tower GTOWER – Guyed Structure Used For Communication Purposes LTOWER – Lattice Tower MAST – Mast MTOWER – Monopole NNGTANN – Guyed Tower Array </div> <div> NNLTANN – Lattice Tower Array NNMTANN – Monopole Array PIPE – Any type of Pipe POLE – Any type of Pole RIG – Oil or Other Type of Rig SIGN – Any type of Sign or Billboard SILO – Any type of Silo STACK – Smoke Stack TANK – Any type of Tank (water, gas, etc.) TREE – When used as a support for an antenna UPOLE – Utility Pole/Tower used to provide service (electric, telephone, etc.) </div> </div>			
39b) Number of Towers in Array:		39c) Position of this Tower in the Array:	
40a) Array Center Latitude (DD-MM-SS.S):		40b) North or South	
41a) Array Center Longitude (DDD-MM-SS.S):		41b) East or West:	

Proposed Marking and/or Lighting

42) Enter the proposed marking and/or lighting: (7)
See Form 854 Item 42 Instructions for detailed tier and lighting information.

- | | | |
|----------------|----------------|-----------------|
| 1) None | 4) FAA Style B | 7) FAA Style E |
| 2) Paint Only | 5) FAA Style D | 8) FAA Style F |
| 3) Other _____ | 6) FAA Style C | 9) FAA Style A |
| | | 10) FAA Style G |

FAA Notification

43) FAA Study Number:	44) Date Issued:
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Environmental Compliance

45) Does the applicant request a waiver of the Commission's rules for environmental notice prior to construction due to an emergency situation?	(No) Yes or No
46a) If the answer to 45 is No, is another federal agency taking responsibility for environmental review of the Antenna Structure?	(No) Yes or No
46b) If the answer to 46a is Yes, indicate why: 1) The Antenna Structure is on Federal Land and the landholding agency is taking responsibility for the environmental review of the Antenna Structure. 2) Another federal agency has agreed with the FCC in writing to take responsibility for the environmental review of the Antenna Structure.	() 1 or 2
46c) If the answer to 46a is Yes, provide the name of the federal agency taking responsibility for the environmental review of the Antenna Structure.	Name:
47) If the answers to 45 and 46a are No, provide the National Notice Date for the application to be posted on the FCC's website (mm/dd/yyyy).	Date: 11/21/2025
48) Is the applicant submitting an environmental assessment?	(No) Yes or No
49) Does the applicant certify that grant of Authorizations at this location would not have a significant environmental effect pursuant to Section 1.1307 of the FCC's rules?	() Yes or No
50) If the answer to 49 is Yes, select the basis for this certification. 1) The construction is exempt from environmental notification (other than due to another agency's review) and it does not fall within one of the categories in Section 1.1307(a) or (b) of the FCC's rules? 2) The construction is exempt from environmental notification due to another agency's review, and the other agency has issued a Finding of No Significant Impact. 3) The environmental notification has been completed, and the FCC has notified the applicant that an Environmental Assessment is not required under Section 1.1307(c) or (d) of the FCC's rules, and the Construction does not fall within one of the categories in Section 1.1307(a) or (b) of the FCC's rules. 4) The FCC has issued a Finding of No Significant Impact.	() 1, 2, 3, 4
51) If the answer to 50 is 3 or 4, enter the date that Local Notice was provided (mm/dd/yyyy).	Date:

Certification Statements

- 1) The applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.
- 2) The applicant certifies that neither the applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862, because of a conviction for possession or distribution of a controlled substance. See Section 1.2002(b) of the rules, 47 CFR § 1.2002(b), for the definition of "party to the application" as used in this certification.

Signature (Typed or Printed Name of Party Authorized to Sign) (For OC Applications, to be completed by Assignee)

52) First Name: Delana	MI: 	Last Name: Gilmore	Suffix:
53) Title: Senior Project Manager			
54) Signature: Delana Gilmore			55) Date: Nov 20, 2025

Signature (Typed or Printed Name of Party Authorized to Sign) (For OC Applications, to be completed by Assignor)

56) First Name: 	MI: 	Last Name: 	Suffix:
57) Title: 			
58) Signature: 			59) Date:



KY-4130

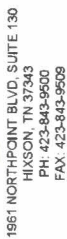
BONNIEVILLE, KY 42713

TENANT: LEGAL BUSINESS ENTITY d/b/a VERIZON WIRELESS

PREPARED FOR:



PREPARED BY:



NEW 245'-0" GUYED TOWER
w/5'-0" LIGHTNING ROD
TOTAL TOWER HEIGHT 250'-0"

1000

TOWER OWNER SITE
CK BONNIEVILLE
SITE # KY-4130

POLICE
HART COUNTY SHERIFF DEPT.
100 MAIN ST
MUNFORDVILLE, KY 42765
PHONE 270-524-2341

VERIZON WIRELESS SITE

CK BONNEVILLE
PROJECT# 17494106
MARKET ID LOUISVILLE
NDG# 5000976345

+ 90 WRIGHT LN.

GENERAL INFORMATION
 BONNEVILLE, KY 42713
 HART COUNTY
 E911 ADDRESS TBD
 LATITUDE - 37 23 02.87' N
 LONGITUDE - 85 35 13.16' W
 1983 (NAD83)
 ELEVATION - 681.3' AMSL
 1988 (NAVD88)
 TOWER OWNER

TOWER OWNER LEASE AREA
100'-0" x 100'-0"
(10000 SF)

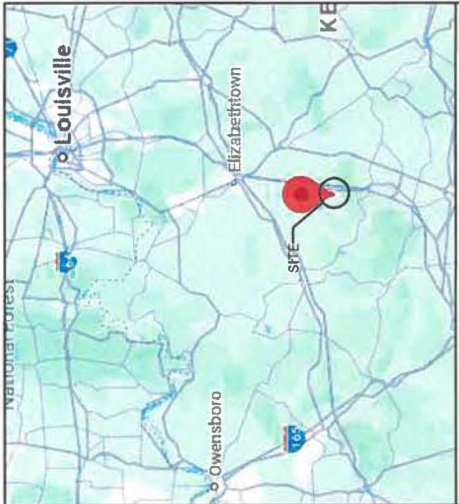
PROPERTY OWNER

TOMMY SHIRLEY & KARA SHIRLEY
CONTACT TOMMY SHIRLEY
PHONE 270-734-5430

COMPOUND (3629 SF) = (0.129 ACRE)
ACCESS DRIVE (9738 SF) = (0.223 ACRE)
GROSS AREA (15363 SF) = (0.352 ACRE)

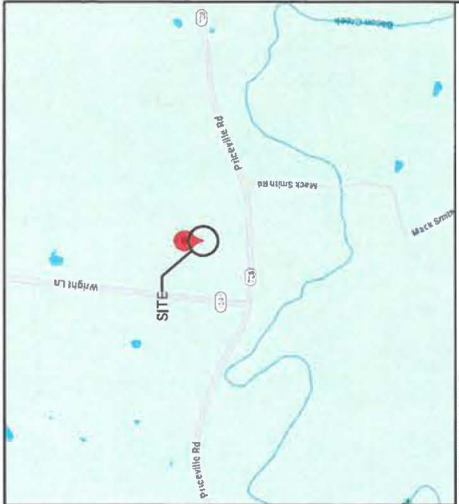
ALL CONSTRUCTION ITEMS ARE TO BE COMPLETED BY THE TOWER OWNER GENERAL CONTRACTOR UNLESS NOTED AS (N/ZW GC) WHICH SHALL BE COMPLETED BY THE VERIZON WIRELESS GENERAL CONTRACTOR

PROJECT SUMMARY



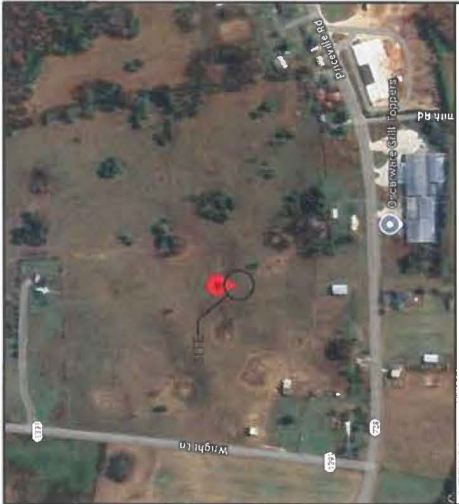
VICINITY MAP

PROJECT DESCRIPTION



LOCATION MAP

CONSULTANT TEAM



AERIAL

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

BUILDING CODE	2018 KENTUCKY BUILDING CODE (IBC 2015)
STRUCTURAL CODE	TIMBER-222 - REMISION G (INCLUDES ALUMINIUM #2)
MECHANICAL CODE	2015 INTERNATIONAL MECHANICAL CODE (IMC 2015)
ELECTRICAL CODE	2017 NATIONAL ELECTRICAL CODE (NEC - NFPA 70)
FIRE/ALIFE SAFETY CODE	2017 NATIONAL FIRE CODE (NFPA 70)
ENERGY CODE	2012 INTERNATIONAL ENERGY CODE (COMMERCIAL)
GAS CODE	2012 NATIONAL FUEL GAS CODE (NFPA 54)

ACCESSIBILITY REQUIREMENTS
THIS PROJECT IS NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2015 IBC BUILDING CODE.

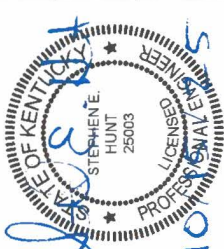
APPLICABLE CODES

SURVEYOR	ARCHITECTURAL	TELECOM WIRELESS	ELECTRICAL	FARMERS RECC
THE LAND CONSULTANTS	1861 NORTHPOINT BLVD STE 130 HOUSTON, TX 77043 PHONE 423-543-5600	HIXSON, TH 37343 HIXSON, TH 37343 PHONE 423-543-5600	2820 15TH AVE SW HUNTSVILLE AL 35895 PHONE 423-306-6772	FARMERS RECC ADDRESS
CONTACT NAME	EMAIL: matt.bates@telecomding.com	EMAIL: matt.bates@telecomding.com	CONTACT NAME	CONTACT NAME

SHEET NUMBER	DESCRIPTION
--------------	-------------

T-1	TITLE SHEET
	SURVEY PLAN
ASR	ASK TOWER MAP
Z-1	OVERALL SITE PLAN WATER OVERLAY
Z-2	OVERALL SITE PLAN WATER DISTANCE TO PROPERTY LINES
Z-3	OVERALL SITE PLAN TOWER DISTANCE TO RESIDENTIAL STRUCTURES
Z-4	GRADING AND EAS CONF PLAN
Z-5	DIMENSIONED SITE PLAN
Z-6	TOWER ELEVATION
Z-7	SITE DETAILS
Z-8	POWER DETAILS AND NOTES
Z-9	TOWER OWNER SIGNAGE

ENGINEER'S STAMP



NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME	CK BONNIEVILLE
ADDRESS	± 98 WRIGHT LN. BONNIEVILLE, KY 42713
COUNTY	
HART	
ALTITUDE	37° 23' 02.97" N
LONGITUDE	85° 55' 15.16" W
SITE NUMBER	KY-4130

SHEET TITLE:

TITLE SHEET

DRAWING NO.	REVISION
T-1	1

PROPERTY INFORMATION

PARENT TAX PARCEL

A. TOMMY SHIRLEY & KARA SHIRLEY
TAX PARCEL: 040-00-00-121.00
DEED BOOK D388, PAGE 342

ADJOINING TAX PARCELS

B. NICHOLAS B. HIGHBAUGH ...
TAX PARCEL: 040-00-00-016.00
DEED BOOK D342, PAGE 435

C. RICHARD N REYNOLDS ...
TAX PARCEL: 040-00-00-013.00
DEED BOOK 197, PAGE 246

D. BMICHAEL & TERESA OSTIC
TAX PARCEL: 040-00-00-014.00
DEED BOOK D341, PAGE 605

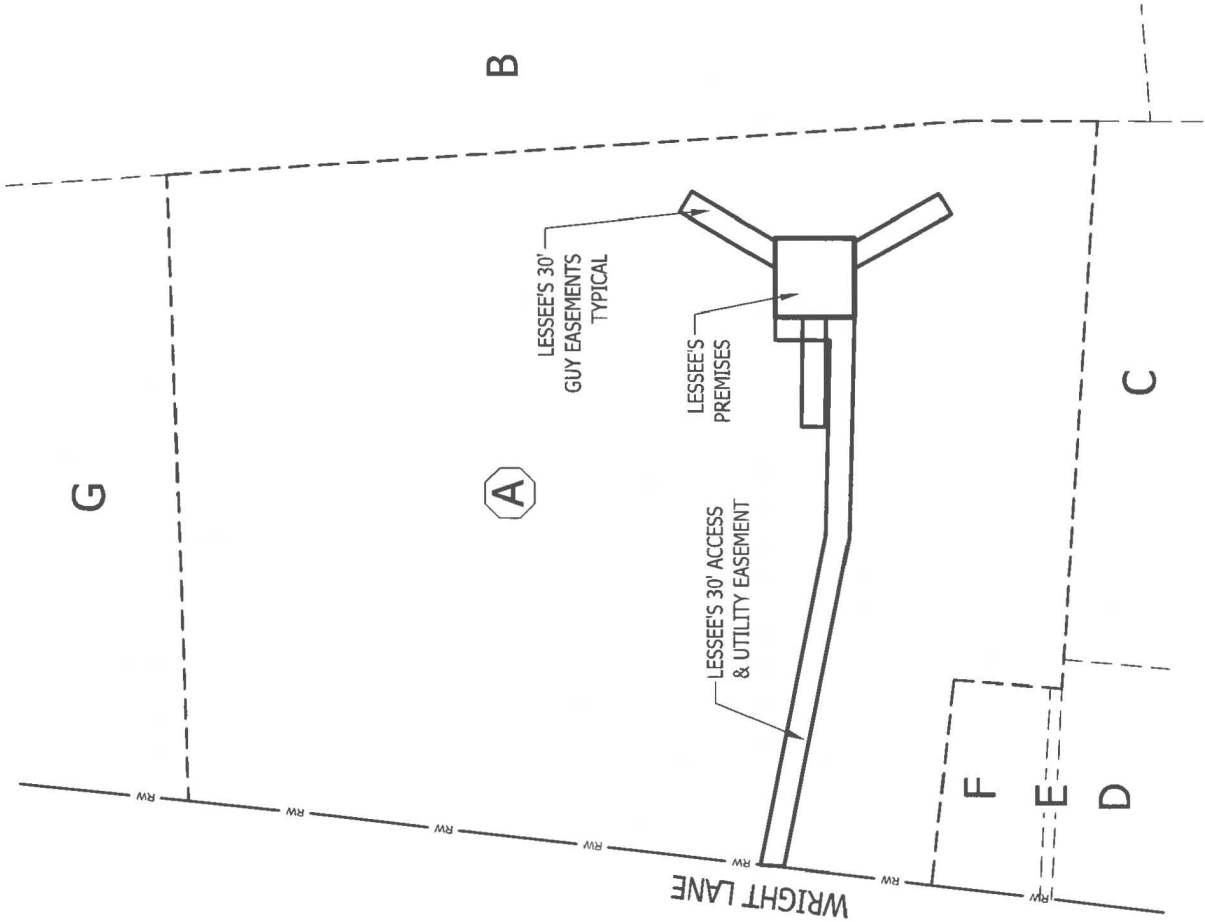
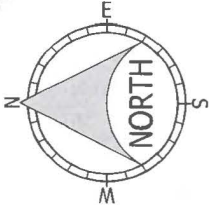
E. DORRIS LOBB, ET AL
TAX PARCEL: 040-00-00-108.00
DEED BOOK 281, PAGE 450

F. WELDON CEMETERY
TAX PARCEL: 040-00-00-122.00
DEED NOT LISTED

G. JOHN LEE FRYE
TAX PARCEL: 040-00-00-106.00
DEED BOOK 269, PAGE 407

OVERVIEW MAP LEGEND

- PUBLIC R/W
- VESTING LAND
- ADJOINING TAX PARCEL
- LESSEE'S PREMISES
- LESSEE'S EASEMENT(S)



OVERVIEW MAP CAVEAT:
OVERVIEW MAP IS NOT A SURVEY BUT A VICINITY / LOCATION MAP INTENDED ONLY TO SHOW SURVEYED PROPERTY IN RELATION TO SURROUNDING AREA. VESTING AND ADJOINING PARCEL BOUNDARIES ARE NOT INCLUDED IN OR CERTIFIED BY THIS SURVEY. BOUNDARY LINES ARE A COMPOSITE OF DEED, PLAT AND/OR TAX MAP INFORMATION.
SEE SURVEY MAP FOR ALL MATTERS RELATED TO SITE SURVEY

(Not a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)
SITE SURVEY
CK BONNIEVILLE
Site Number: KY-4130
Wright Lane, Bonnieville, KY 42713
Hart County, Kentucky

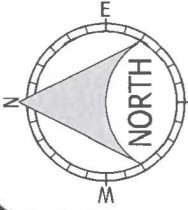
OVERVIEW MAP

DWG #: 25259
ISSUE #: 0
ISSUE DATE: 08-28-2025
SEE SHEET #1

SHEET
2
OF
6

THE LAND CONSULTANTS
2820 15TH AVE SW
HUNTSVILLE, AL 35805
423-304-6722

PREPARED FOR
APC Towers
APC TOWERS IV, LLC
8601 Six Forks Rd, Suite 250,
Raleigh, NC 27615



KENTUCKY SOUTH
STATE PLANE

Site Benchmark
PK Nail Set
EL: 666.91'

WRIGHT LANE
40' Public R/W (Ref: Deed 388-342)

20' Water Line Easement
Green River Valley Water District
Deed 220-563 - Tide Item #7

EXISTING
BARN

LESSEE'S 30'
ACCESS & UTILITY
EASEMENT
23,337 Sq. Ft. - 0.54± Ac

EXISTING
BARN

P.O.C.
1/2in Capped
Iron Rod
Found

P.O.C.
1/2in Capped
Iron Rod Found

STATE of KENTUCKY
TRAVIS L. SHIELDS
08/25/25
4248
LICENSED
PROFESSIONAL
LAND SURVEYOR

SCALE: 1in = 50'
0' 50' 100' 150'

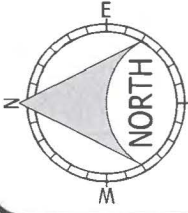

THE LAND CONSULTANTS
2820 1 5TH AVE SW
HUNTSVILLE, AL 35805
423-304-6722

PREPARED FOR
APC Towers
APC TOWERS IV, LLC
8601 Six Forks Rd, Suite 250,
Raleigh, NC 27615

(Not a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)
SITE SURVEY
CK BONNIEVILLE
Site Number: KY-4130
Wright Lane, Bonnieville, KY 42713
Hart County, Kentucky

SITE SURVEY

DWG #: 25259
ISSUE #: 0
ISSUE DATE: 08-28-2025
SEE SHEET #1
SHEET **3** OF 6



- POINTS OF BEGINNING:
1. PREMISES
 2. ACCESS & UTILITY EASEMENT
 3. GUY EASEMENT #1
 4. GUY EASEMENT #2
 5. GUY EASEMENT #3



2820 15TH AVE SW
HUNTSVILLE, AL 35805
423-304-6722

PREPARED FOR



APC TOWERS IV, LLC

8601 Six Forks Rd, Suite 250,
Raleigh, NC 27615

(Not a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)

SITE SURVEY

CK BONNIEVILLE
Site Number: KY-4130
Wright Lane, Bonnieville, KY 42713

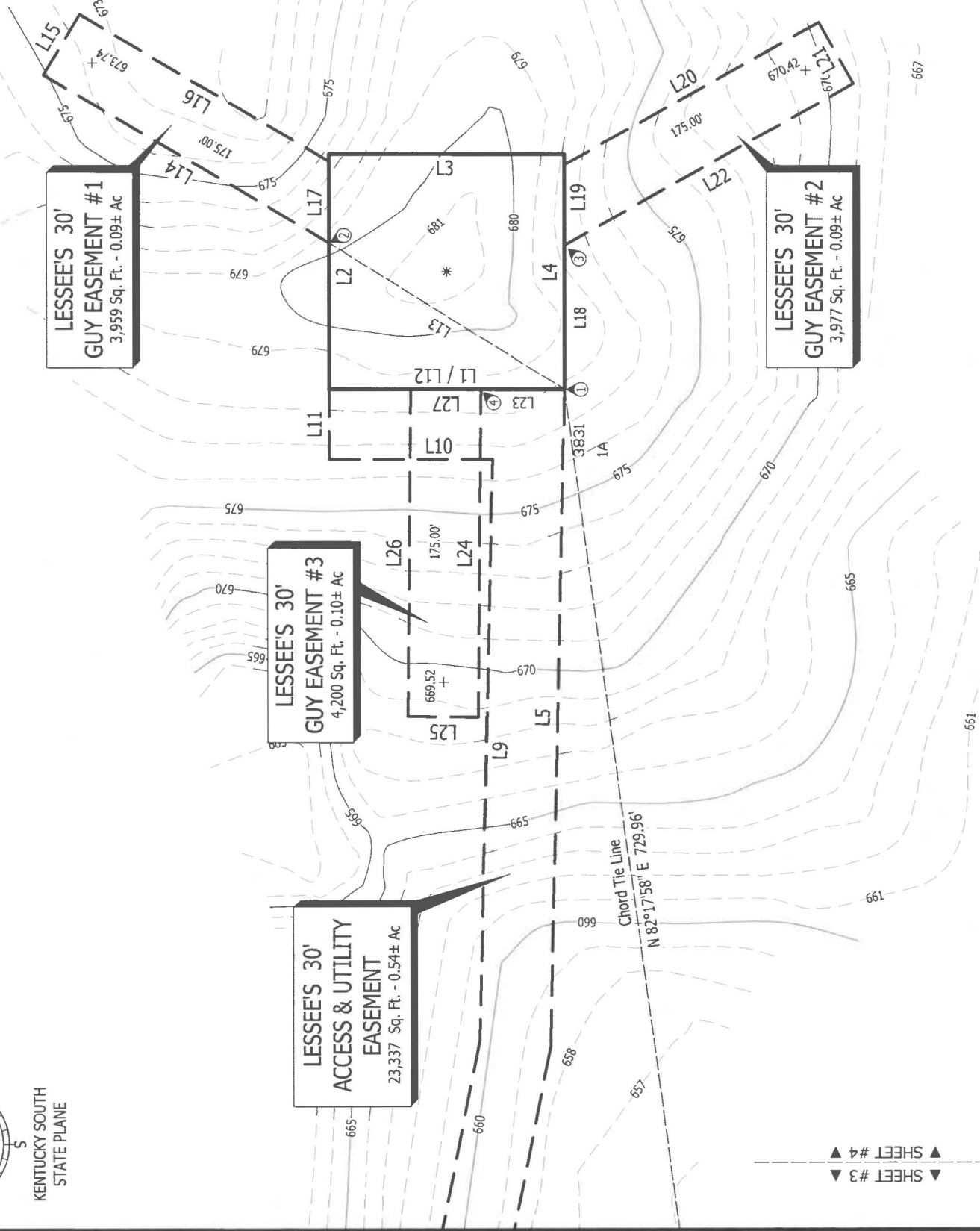
Hart County, Kentucky

SITE SURVEY

SHEET
4
OF
6

DWG#: 25259
ISSUE #: 0
ISSUE DATE: 08-28-2025
SEE SHEET #1

SCALE: 1in = 50'



A

TITLE EXAMINATION

Surveyor's treatment of Title Examination Items is limited to the scope described in ALTA/NSPS 2021 requirements. Section 6, C. ii., and is limited to determination of the extent of land, that Title Items may influence, if any. "Extent of Property" may be: Blanket in nature for a Parcel or Parcels (not subject to mapping, but assumed to also apply to Lessee's Areas (if any) insofar as these may lie on Parcel(s) influenced by instrument); specifically described by instrument (mapped and shown only if within the Surveyed Area). Determination of physical location may not be possible if: instrument is illegible; instrument lacks sufficient descriptive information; or instrument refers to other instruments which were not included in the title exam and not otherwise available to survey or. Factors beyond physical location, such as the type of influence that "Restrictions, Covenants, Terms or Conditions" contained in instruments may impart upon Parcels or Lessee's Site or Easements are not evaluated by Land Surveyor. Review by Title Attorney may be warranted. Land Surveyors may not practice Law.)

Reference: Commitment for Title Insurance prepared by Old Republic National Title Insurance Company, Commitment Number: 01-25038773-01T, Commitment Date: 07/09/2025, Schedule B, Part II, Exceptions.

Item 1 - 6: General Items (no record instruments listed) or Taxes, not addressed by Survey.

Item 7: Deed 220-563: 20' Water Line Easement, located on Parent Tax Parcel as shown hercon. Crosses Lessee's Easement as shown hercon. Not located on Lessee's Premises.

Item 8: Plat D-161: Plat shows a tract not consistent with any Tax Parcel in vicinity of this survey, and which lacks information necessary to correlate with the Survey Area, and which shows no matters subject to Survey review. Not addressed further herein.

LEGAL DESCRIPTION OF PARENT TAX PARCEL

Situated in the County of Hart, Commonwealth of Kentucky:

Beginning at an iron pin set (all iron pins set are 1/2" rebar with red caps stamped "Hawkins 3894") in the East R/W (40' R/W per KYTC Project No. R.S. 50-460, dated 1952) of Wright Lane (KY Hwy 1391), said pin being at a corner common to the Weldon Cemetery (no deed found), approximately 475 feet north of the centerline of KY Hwy 728, near Bonnieville in Hart County, Kentucky; Thence with the East R/W N 06°35'55" E (Bearings are based on Kentucky State Plane Coordinates - South Zone 1602; NAD 83; NAVD 88; Geoid 12) 383.73 feet, to an iron pin set, N 06°26'15" E (Bearings are based on Kentucky State Plane Coordinates - South Zone 1602; NAD 83; NAVD 88; Geoid 12) 429.53 feet, and N 05°49'13" E 135.74 feet, to an iron pin set common to John Lee Frye (DB 269 PG 407); Thence with Frye running generally along a fence line N 88°08'47" E 796.52 feet, to an iron pin set common to Nicholas Brian Highbough and Kristi Nicole Highbough (DB 342 PG 435); Thence with Highbough running generally along a fence line S 03°59'54" E 597.94 feet, to an iron pin set, S 03°59'54" E 416.42 feet, to an iron pin found (1/2" rebar with cap, PLS 3644), and S 00°02'44" W 168.02 feet, to an iron pin set common to Richard N. and Martha Reynolds (DB197 PG 246); Thence with Reynolds running generally along a fence line N 86°20'51" W 723.93 feet, to an iron pin set common to Michael Harvey Bostic and Teresa Lynn Bostic (DB 341 PG 605) and common to Doris Lobb and Thomas and Ramona Lobb (DB 281 PG 450); Thence with Lobb and later the Weldon Cemetery running generally along a fence line N 04°10'00" E 137.64 feet, to an iron pin set; Thence continuing with the Weldon Cemetery running generally along a fence line N 83°55'28" W 261.72 feet, to the beginning. Said tract contains 22.529 acres as surveyed by Anderson Engineering and Land Surveying PLLC, Andrew I. Hawkins L.S. 3894 on April 10, 2025.

Tax ID: 040-00-00-121.00

(Not a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)

SITE SURVEY
CK BONNIEVILLE
Site Number: KY-4130
Wright Lane, Bonnieville, KY 42713
Hart County, Kentucky

TITLE

DWG#: 25259
ISSUE #: 0
ISSUE DATE: 08-28-2025
SEE SHEET #1

SHEET
6
OF
6



THE
LAND CONSULTANTS
LLC
2820 15TH AVE SW
HUNTSVILLE, AL 35805
423-304-6722

PREPARED FOR



APC TOWERS IV, LLC
8601 Six Forks Rd, Suite 250,
Raleigh, NC 27615



TOWER	TOWER OWNER	ASR	LATITUDE	LONGITUDE
1	FM 90.1, INC	1052138	37°25'58.0"N	86°01'49.0"W
2	AMERICAN TOWERS LLC	1042714	37°24'08.1"N	85°57'15.4"W
3	CROWN COMMUNICATIONS LLC	1211618	37°24'36.0"N	85°53'10.8"W
4	TILLMAN INFRASTRUCTURE, LLC	1315877	37°23'28.3"N	85°45'54.6"W
5	CELLCO PARTNERSHIP	1263443	37°23'18.7"N	85°45'39.7"W
6	CELLCO PARTNERSHIP	1279268	37°21'53.4"N	85°59'06.7"W
7	CROWN COMMUNICATION LLC	1220496	37°21'17.2"N	85°52'24.7"W
8	VB ACQUISITIONS LLC	1043058	37°19'27.0"N	85°55'08.0"W
9	HART, COUNTY OF	1287016	37°19'09.0"N	85°53'34.1"W
10	CROWN CASTLE TOWERS 06-2 LLC	1057213	37°19'07.8"N	85°53'34.7"W
11	CELLCO PARTNERSHIP	1263442	37°19'28.6"N	85°51'23.6"W
12	TILLMAN INFRASTRUCTURE, LLC	1317485	37°19'59.5"N	85°45'45.5"W
13	CELLCO PARTNERSHIP	1257254	37°19'35.7"N	85°45'55.6"W
14	CROWN COMMUNICATIONS LLC	1200030	37°18'17.2"N	85°55'38.3"W
15	GLOBAL TOWER, LLC, THROUGH AMERICAN TOWERS, LLC	1042214	37°18'06.0"N	85°55'41.0"W
16	US ARMY CORPS OF ENGINEERS	1289508	37°18'03.9"N	85°57'51.6"W
17	CTI TOWERS ASSETS II, LLC	1309549	37°16'46.1"N	85°55'51.6"W
18	HART COUNTY COMMUNICATIONS	1044066	37°16'09.0"N	85°54'56.0"W
19	CROWN COMMUNICATIONS LLC	1211619	37°14'49.4"N	85°55'13.3"W
20	CITYSWITCH II, LLC	1317522	37°13'41.8"N	85°49'21.1"W
21	CELLCO PARTNERSHIP	1257256	37°13'36.2"N	85°48'48.7"W
22	CROWN COMMUNICATION LLC	1224165	37°11'43.1"N	85°57'15.1"W
23	AMERICAN TOWERS LLC	1044398	37°11'01.2"N	85°54'53.6"W
24	AMERICAN TOWERS LLC	1052937	37°11'04.8"N	85°51'44.3"W
25	EAST KENTUCKY POWER COOPERATIVE, INC	1044509	37°11'09.0"N	85°51'37.0"W
26	KENTUCKY, COMMONWEALTH OF DBA	1044830	37°10'35.2"N	85°55'34.7"W
27	CELLCO PARTNERSHIP	1267522	37°10'38.0"N	85°55'14.4"W
28	T-MOBILE USA TOWER LLC	1057214	37°10'01.0"N	85°57'00.0"W
NEW	APC TOWERS IV, LLC		37°23'02.97"N	85°55'15.16"W



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

DRAWING NOTICE:
THE INFORMATION CONTAINED IN THIS SET OF
DOCUMENTS IS PROPRIETARY BY NATURE. ANY
USE OR DISCLOSURE OTHER THAN THAT WHICH
RELATES TO THE CLIENT IS STRICTLY

RECEIVED BY:	08
--------------	----

REVIEWS	
1	10/15/25 JW FINALS
0	10/02/25 WAMF FINALS
B	09/23/25 JAE PRELIMINARY REVIEW
A	09/18/25 WAMF PRELIMINARY REVIEW
NO.	DATE BY DESCRIPTION

NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME

CK BONNIEVILLE

ADDRESS: _____

± 98 WRIGHT LN,
BONNIEVILLE, KY 42713

COUNTY _____

HART

ATTITUDE:

37° 23' 02.97" N

LONGITUDE

85° 55' 15.16" W

DATE ALL IMPROVED

KV-1130

SHEET TITLE

OVERALL SITE PLAN

DRAWING NO.	REVISION
-------------	----------

Journal of Management Education 36(8) 907-924

ASR 1

[illegible]

PREPARED FOR:



8601 SIX FORKS RD, SUITE 250
RALEIGH, NC 27615

PREPARED BY:



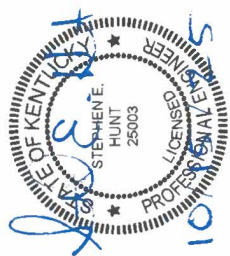
1961 NORTHPOINT BLVD, SUITE 130
NATION, KY 40345
PH: 502.443.9500
FAX: 423.843.9509

DRAWING NOTICE:
THE INFORMATION CONTAINED IN THIS SET OF
DRAWINGS IS THE PROPERTY OF APC TOWERS.
IT IS TO BE USED ONLY FOR THE PROJECT AND
SITE OR DISCLOSURE OTHER THAN THAT WHICH
RELATES TO THE CLIENT IS STRICTLY
PROHIBITED.

DRAWN BY:	WAM
CHECKED BY:	DS

REVISIONS			
1	10/15/05	JW	FINALS
0	10/02/05	WAM	FINALS
8	06/23/05	JAE	PRELIMINARY REVIEW
A	08/18/05	WAM	PRELIMINARY REVIEW
NO.	DATE	BY	DESCRIPTION

ENGINEER'S STAMP



NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME	CK BONNIEVILLE
ADDRESS	+ 98 WRIGHT LN BONNIEVILLE, KY 42713
COUNTY	HART
LATITUDE	37° 23' 02.97" N
LONGITUDE	85° 55' 15.16" W
SITE NUMBER	KY-4130

SHEET TITLE:	OVERALL SITE PLAN
--------------	-------------------

DRAWING NO.	Z-1
REVISION	1



Call Kentucky 811 before you dig.
1-800-752-6007
FOR KENTUCKY STATE LAW, IT IS AGAINST THE
LAW TO EXCAVATE WITHOUT NOTIFYING THE
APPROPRIATE AGENCIES. CALL 811 TO
WORKSAFE. DIRT BEHIND COMMANDING WORK.

PREPARED FOR



8601 SIX FORKS RD. SUITE 250
RALEIGH, NC 27615

PREPARED BY



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-83-9500
FAX: 423-83-9509

DRAWING NOTICE
THE INFORMATION CONTAINED IN THIS SET OF
DRAWINGS IS THE PROPERTY OF TELECAD WIRELESS
AND IS NOT TO BE REPRODUCED OR USED FOR ANY
USE OR DISCLOSURE OTHER THAN THAT WHICH
RELATES TO THE CLIENT IS STRICTLY
PROHIBITED.

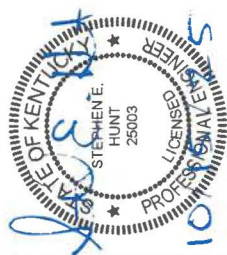
DRAWN BY: WAM

CHECKED BY: DS

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	10/15/25	JW	FINALS
2	10/02/25	WAM	FINALS
3	09/23/25	JAE	PRELIMINARY REVIEW
4	09/18/25	WAM	PRELIMINARY REVIEW

ENGINEER'S STAMP



NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME:

CK BONNIEVILLE

ADDRESS:

+ 98 WRIGHT LN
BONNIEVILLE, KY 42713

COUNTY:

HART

LATITUDE:

37° 23' 02.97" N

LONGITUDE:

85° 55' 15.16" W

SITE NUMBER:

KY-4130

SHEET TITLE

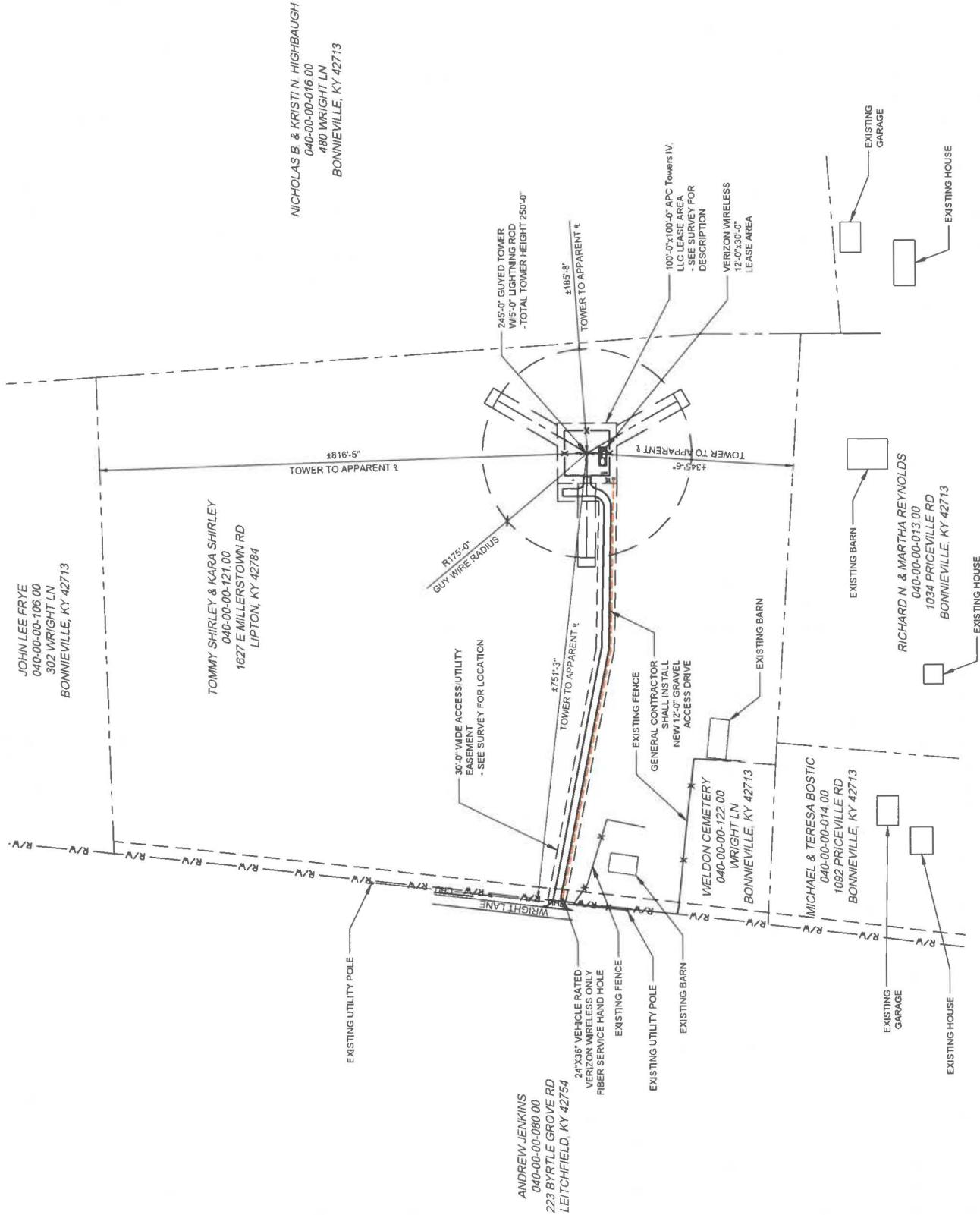
OVERALL SITE PLAN

DRAWING NO.

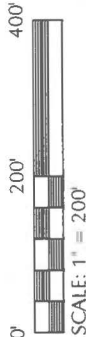
Z-2

REVISION

1



OVERALL SITE PLAN W/TOWER
DISTANCE TO PROPERTY LINES



Call before you dig - 7 ft. to 8 ft. deep.
1-800-752-6007
FOR KENTUCKY STATE LAW, IT IS AGAINST THE
LAW TO EXCAVATE WITHOUT NOTIFYING THE
APPROPRIATE AGENCIES. CALL 811 AT LEAST
TWO BUSINESS DAYS BEFORE COMMENCING WORK.

PREPARED FOR:



8601 SIX FORKS RD. SUITE 250
RALEIGH, NC 27615

PREPARED BY:



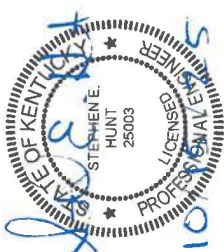
1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37243
PH: 423-843-9600
FAX: 423-843-9609

DRAWING NOTICE:
THE INFORMATION CONTAINED IN THIS SET OF
DRAWINGS IS THE PROPERTY OF TELECAD WIRELESS.
USE OR REUSE OF ANY INFORMATION HEREIN
FOR ANY OTHER PROJECT WITHOUT THE WRITTEN
CONSENT OF TELECAD WIRELESS IS STRICTLY
PROHIBITED.

DRAWN BY:	WAM
CHECKED BY:	DS

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	10/15/25	JW	FINALS
2	10/22/25	WAM	FINALS
3	08/23/25	JAE	PRELIMINARY REVIEW
4	08/19/25	WAM	PRELIMINARY REVIEW

ENGINEER'S STAMP

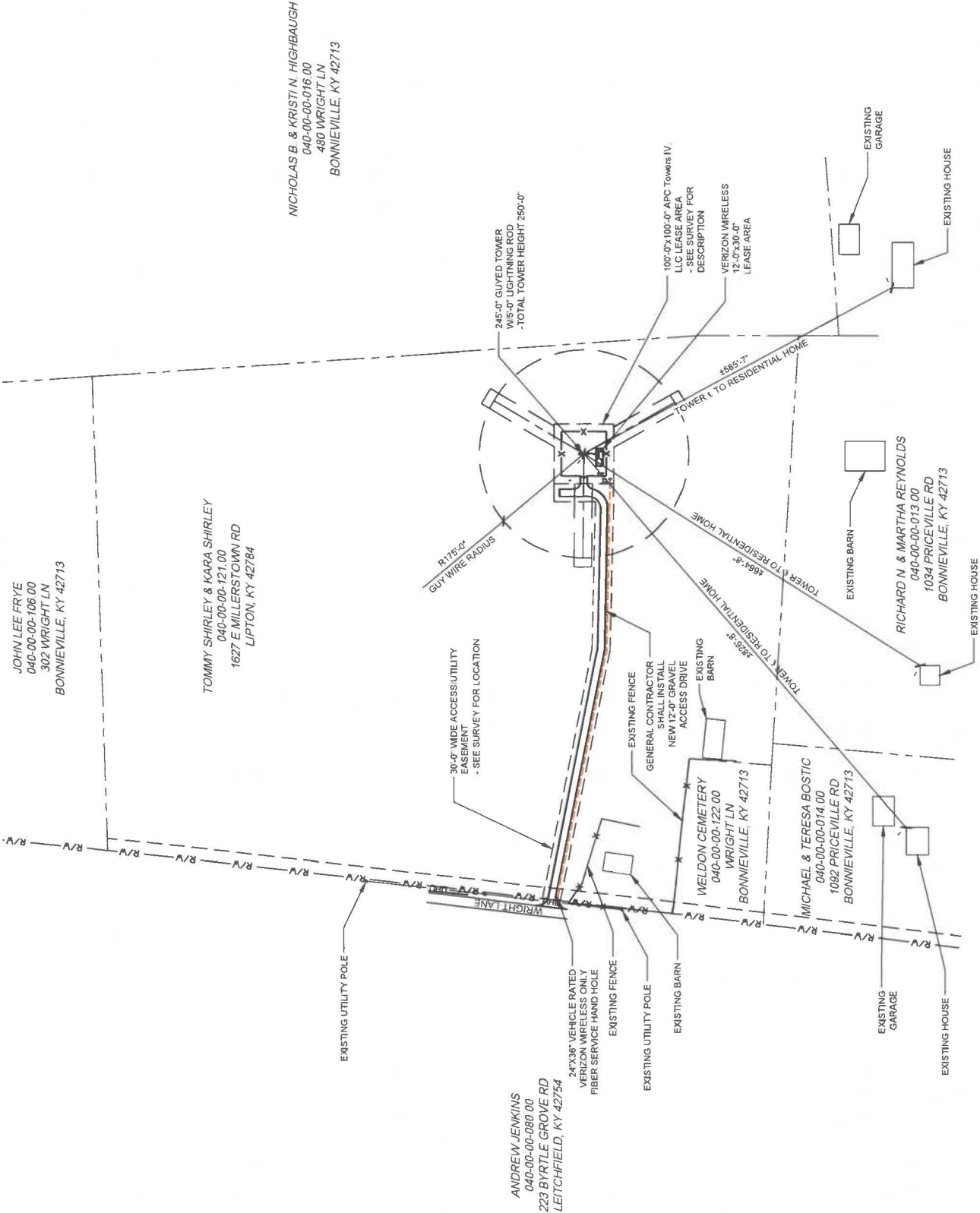


NOT VALID WITHOUT P.E. STAMP & SIGNATURE

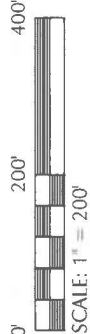
SITE NAME	CK BONNIEVILLE
ADDRESS	± 98 WRIGHT LN. BONNIEVILLE, KY 42713
COUNTY	HART
LATITUDE	37° 23' 02.97" N
LONGITUDE	85° 55' 15.16" W
SITE NUMBER	KY-4130

SHEET TITLE	OVERALL SITE PLAN
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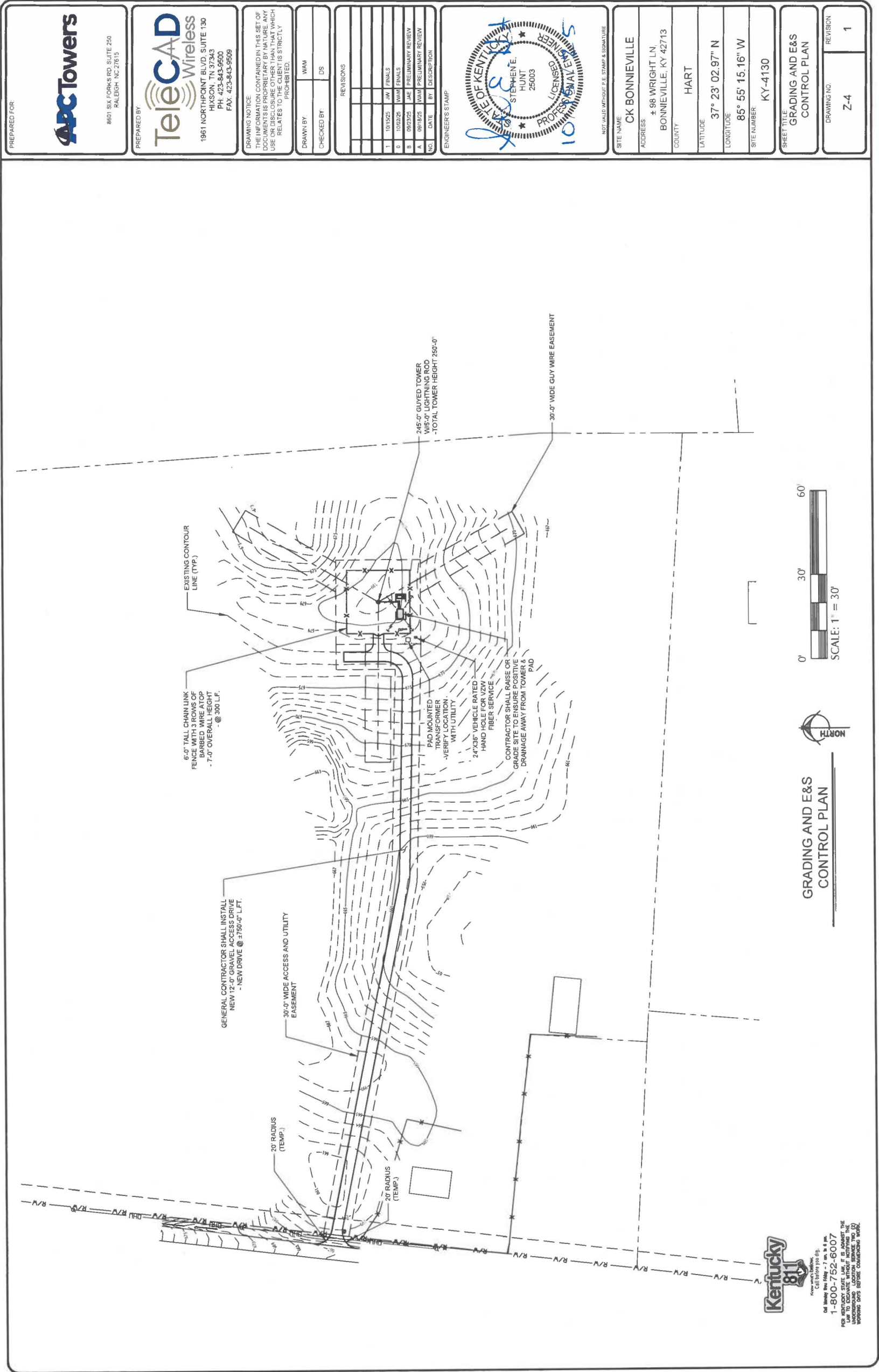
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REVISION	1

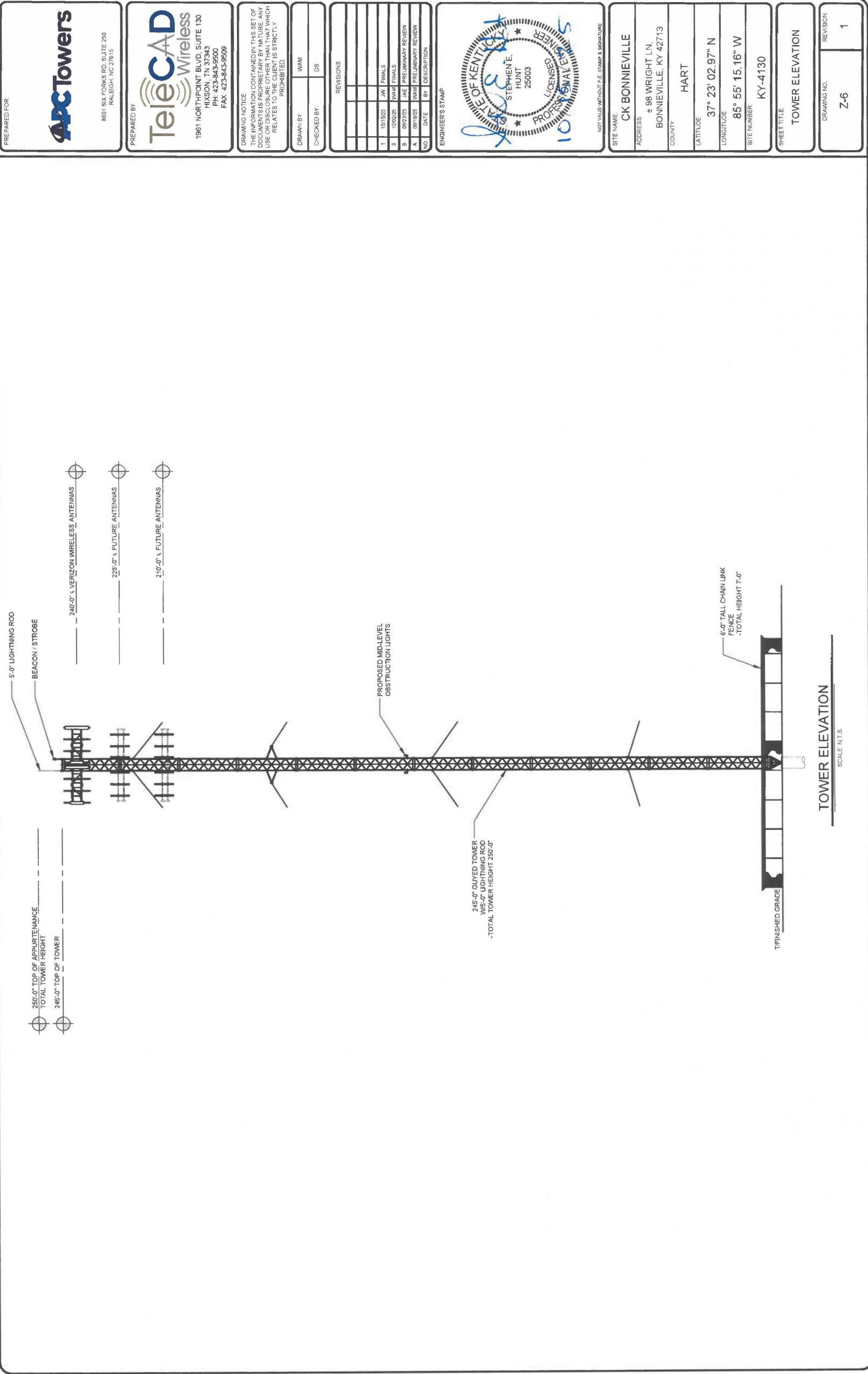


TOWER DISTANCE TO RESIDENTIAL
STRUCTURES




Call before you dig.
Call Kentucky 811 at 1-800-752-6007
FOR A FREE SERVICE CARD. IF YOU ARE NOT
A RESIDENT OF KENTUCKY, CALL 1-800-752-6007
FOR A SERVICE CARD. IF YOU ARE A RESIDENT OF
KENTUCKY, CALL 1-800-752-6007 FOR A SERVICE
CARD. IF YOU ARE A RESIDENT OF KENTUCKY,
CALL 1-800-752-6007 FOR A SERVICE CARD.






PREPARED FOR



8601 SIX FORKS RD. SUITE 250
RALEIGH, NC 27615

PREPARED BY



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37243
PH: 423-843-9500
FAX: 423-843-9509

DRAWING NOTICE

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT IS STRICTLY PROHIBITED.

DRAWN BY

WAM

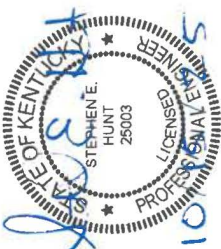
CHECKED BY

DS

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	10/15/25	JW	FINALS
0	10/02/25	WAM	FINALS
B	09/23/25	JAE	PRELIMINARY REVIEW
A	08/18/25	WAM	PRELIMINARY REVIEW

ENGINEER'S STAMP



NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME

CK BONNIEVILLE

ADDRESS

± 98 WRIGHT LN.
BONNIEVILLE, KY 42713

COUNTY

HART

LATITUDE

37° 23' 02.97" N

LONGITUDE

85° 55' 15.16" W

SITE NUMBER

KY-4130

SHEET TITLE

SITE DETAILS

DRAWING NO.

Z-7

REVISION

1

LINE POST

4" #57 CLEAN LIMESTONE ROLLED/COMPACTED

4" #3 LIMESTONE ROLLED/COMPACTED

GEOTEXTILE FABRIC "MIRAFI 500X"

PROOF ROLLED/COMPACTED SUBGRADE

TOWER FOUNDATION

TOP OF PROOF ROLLED/COMPACTED SUBGRADE

MIN.

MAX.

GRADE

18"

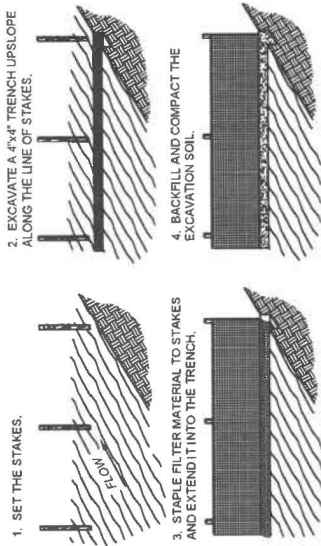
3"

1. SET THE STAKES.

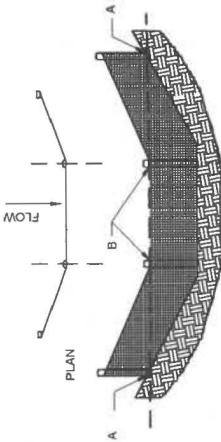
2. EXCAVATE A 6"x4" TRENCH UPSLOPE ALONG THE LINE OF STAKES.

3. STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO THE TRENCH.

4. BACKFILL AND COMPACT THE EXCAVATION SOIL.



PLAN



POINTS A SHOULD BE HIGHER THAN POINT B

SILT FENCE DETAIL

SCALE N.T.S.

GROUT PIPE FULL W/ CONC. DOME TOP

8" DIA. SCH40 GALV. STEEL BOLLARD

CROWN FOR DRAINAGE

16" DIA. CONCRETE FOOTING (3000 PSI)

COMPACTED AGGREGATE

MIN.

4'-0"

EXISTING FINISH GRADE

NOTE:

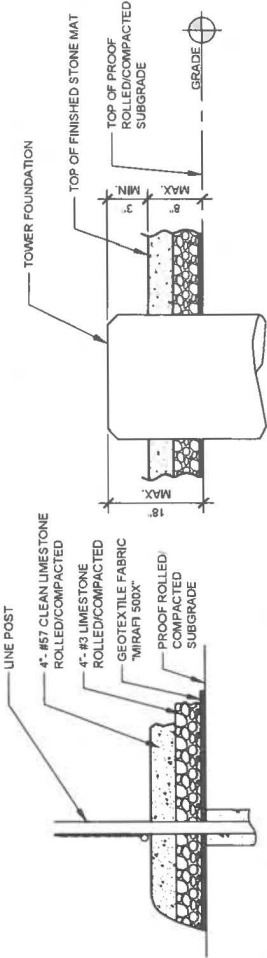
1. CONTRACTOR SHALL PRIME & PAINT BOLLARDS OSHA YELLOW

BOLLARD DETAIL

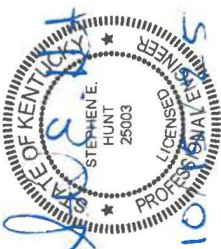
SCALE N.T.S.

PARTIAL COMPOUND SECTION

SCALE N.T.S.



ENGINEER'S STAMP



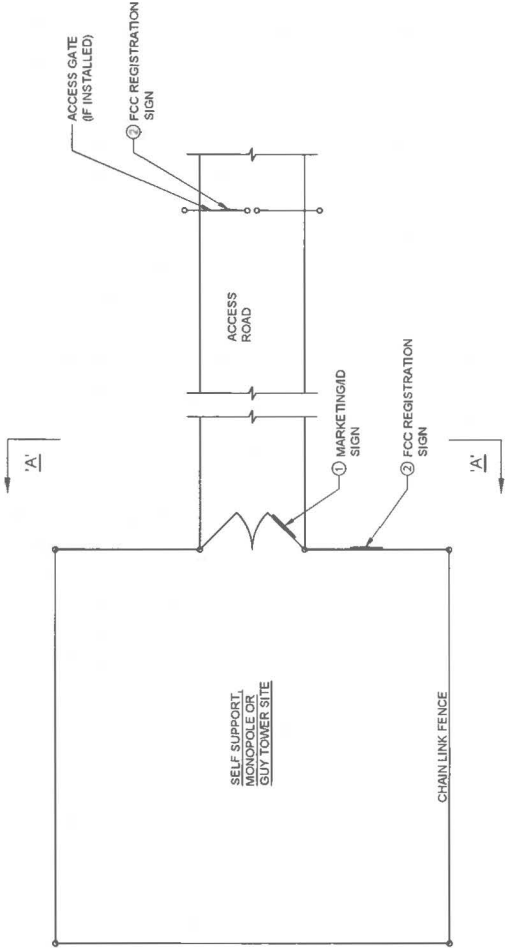
NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME: CK BONNIEVILLE
ADDRESS: ± 98 WRIGHT LN., BONNIEVILLE, KY 42713
COUNTY: HART
LATITUDE: 37° 23' 02.97" N
LONGITUDE: 85° 55' 15.16" W
SITE NUMBER: KY-4130

SHEET TITLE: SITE DETAILS
DRAWING NO.: Z-7
REVISION: 1

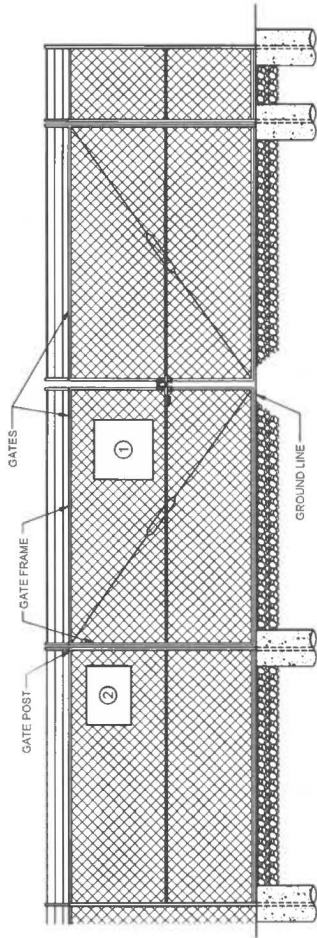
NOTES:

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.



MARKETING/ID SIGN

24" WIDE x 24" HIGH



FCC REGISTRATION SIGN

24" WIDE x 18" HIGH

PREPARED FOR



8601 SIX FORKS RD. SUITE 250
RALEIGH, NC 27615

PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9900
FAX: 423-843-9909

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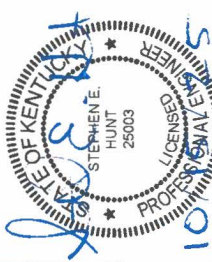
DRAWN BY: WAM

CHECKED BY: DS

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	10/15/05	JAM	FINALS
2	10/22/05	WAM	FINALS
3	09/23/05	JAE	PRELIMINARY REVIEW
4	09/19/05	WAM	PRELIMINARY REVIEW

ENGINEER'S STAMP



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SITE NAME

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ADDRESS

± 98 WRIGHT LN.
BONNIEVILLE, KY 42713

COUNTY

HART

LATITUDE

37° 23' 02.97" N

LONGITUDE

85° 55' 15.16" W

SITE NUMBER

KY-4130

SHEET TITLE

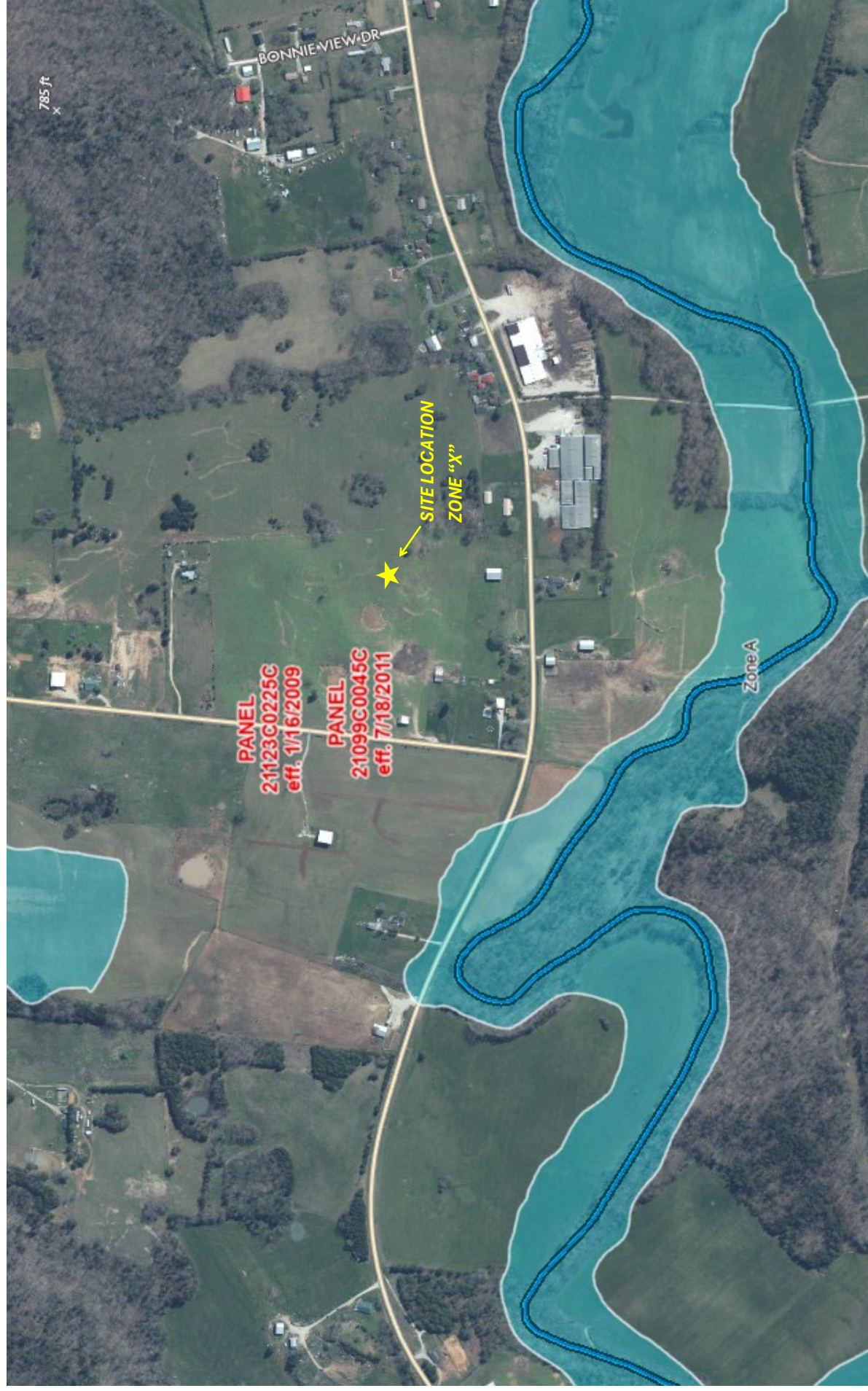
TOWER OWNER SIGNAGE

DRAWING NO.

Z-9

REVISION

1

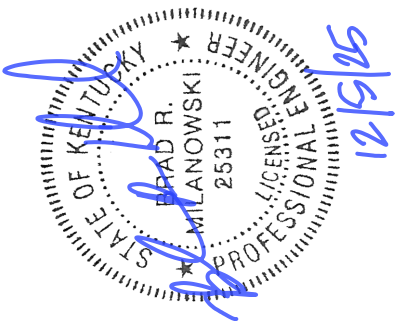




ISSUED FOR:		
REV	DATE	DESCRIPTION
0	12/05/25	ISSUED FOR CONSTRUCTION

COA: 4011

EXPIRES: 12/31/2025



IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS
THEY ARE ACTING UNDER THE DIRECTIONS OF A
LICENSES PROFESSIONAL ENGINEER, TO ALTER THIS
DOCUMENT

PROJECT INFORMATION:

PROJECT NO: 25-009277
SITE NAME: CK BONNIEVILLE
SITE NO: KY-4130
CLIENT NAME: APC TOWERS IV, LLC

DRAWN BY: CLINT COODY
CHECKED BY: JL

SHEET TITLE:

PIER AND PAD FOUNDATION

SHEET NUMBER:

REVISION:

GT-PPF

1. REINFORCEMENT STEEL SHALL CONFORM TO THE REQUIREMENT OF ASTM A-615 (GRADE 60) EXCEPT THAT TIES MAY BE ASTM-615 (GRADE 40) WITH MINIMUM CLEAR COVER.
2. REINFORCEMENT STEEL SHALL BE DETAILED, FABRICATED, BENT, AND PLACED IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE AND THE ACI 315 (LATEST EDITION).
3. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE GEOTECH REPORT FOR THIS PROJECT AND FOLLOW THE RECOMMENDATIONS IN THAT REPORT WHEN CONSTRUCTING THE FOUNDATION.

GEOTECHNICAL PROPERTIES BY: ENGINEERED TOWER SOLUTIONS

PROJECT NUMBER: 25140692

DATE: NOVEMBER 4, 2025

4. THIS FOUNDATION HAS BEEN DESIGNED, IN ACCORDANCE WITH THE TIA 222-H STANDARD, SPECIFICALLY FOR THE TOWER AND SOIL CONDITION REFERENCED ABOVE. IF ANYTHING DIFFERS THIS DESIGN SHALL BE CONSIDERED INVALID AND MUST BE REDESIGNED PRIOR TO CONSTRUCTION.

5. CONCRETE VOLUME IN CUBIC YARDS: 3.27

6. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.

7. CONCRETE MIXTURES SHALL MEET DURABILITY REQUIREMENTS OF CHAPTER 19 OF THE ACI 318-14.

8. ALL CONCRETE TESTING SHALL BE IN ACCORDANCE WITH ACI 318-14. A MINIMUM OF (2) 6"x12" OR (3) 4"x8" CONCRETE CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6"x12" OR (6) 4"x8" CYLINDERS PER BATCH REQUIRED.

9. SLUMP TEST SHALL BE MADE IN ACCORDANCE WITH ASTM C143. THE ALLOWABLE CONCRETE SLUMP SHALL BE 4 INCHES ($\pm 1"$) UNLESS ADMIXTURES ARE USED. ADMIXTURE SHALL BE IN ACCORDANCE WITH ASTM C494 STANDARD TYPES A, B, C, D OR E. THE ENGINEER SHALL PRE-APPROVE SUPER PLASTICIZER USE. DO NOT USE CHLORIDE-CONTAINING ADMIXTURES. AIR ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C260.

0. BACKFILL MATERIAL SHALL BE COMPACTED TO A MINIMUM UNIT WEIGHT SPECIFIED IN GEOTECH REPORT. THE SOIL SHALL BE INSTALLED IN 6" TO 8" LIFTS AND COMPACTED THOROUGHLY TO ACHIEVE APPROPRIATE UNIT WEIGHT UNLESS GEOTECH SPECIFIES OTHER COMPACTION REQUIREMENTS.

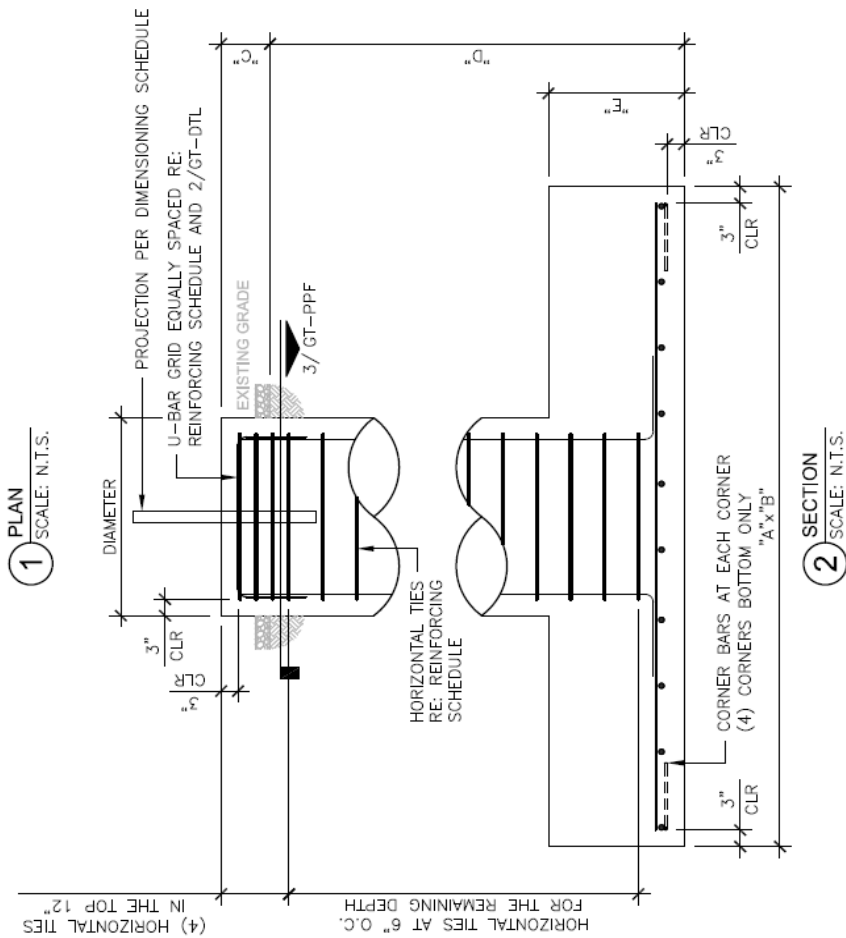
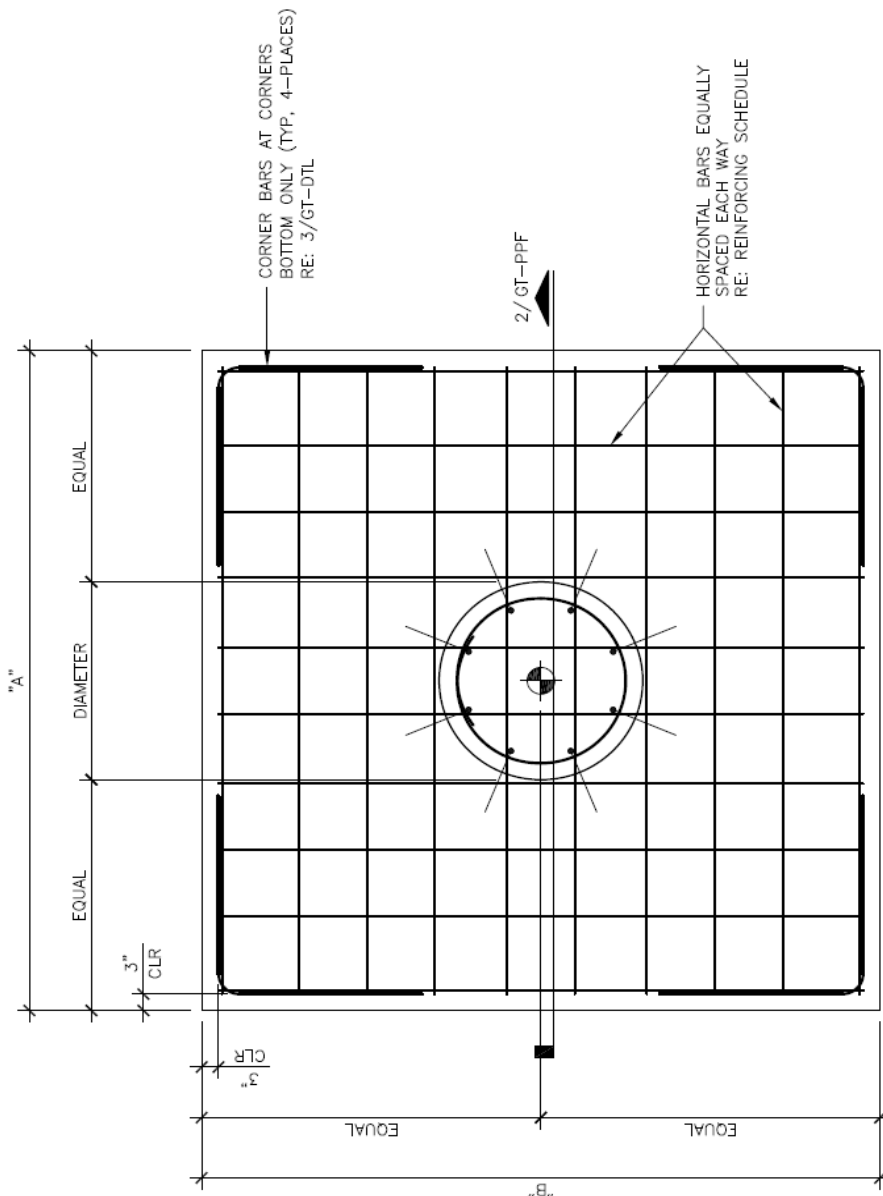
1. VERIFY ALL DIMENSIONS AGAINST MANUFACTURER'S DRAWINGS.

1. THIS DRAWING WAS SPECIFICALLY DESIGNED FOR USE BY THE CUSTOMER ON THIS DRAWING AT THE SPECIFIED LOCATION. USE OF THIS DRAWING FOR ANY OTHER PROJECT OR FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF THE ENGINEER IS PROHIBITED. THE ENGINEER ASSUMES NO LIABILITY FOR ANY DAMAGE OR INJURY TO PERSONS OR PROPERTY RESULTING FROM THE USE OF THIS DRAWING FOR ANY OTHER PROJECT OR FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

DIMENSIONING SCHEDULE	
A	7' 0"
B	7' 0"
C	0' 6"
D	4' 0"
E	1' 6"
MIN. OVERLAP F"	2' 3"
D/AMETER	2' 6"
CENTER PIN PROJ.	REF TO MFG

REINFORCING SCHEDULE	SIZE	TOTAL QTY
VERTICAL BARS	# 6	9
HORIZONTAL TIES	# 4	10
U-BAR HORIZONTAL (PEDestal)	# 4	4
BOTTOM HORIZONTAL BARS	# 6	16
CORNER BARS	# 4	4

BASE REACTIONS: (FACTORED LOADS)		
VERTICAL	211	KIPS
HORIZONTAL	1	KIPS



B+T GRP

1717 S BOULDER AVE #300, TULSA, OK 74119
(918) 587-4630

APC

Towers

8601 SIX FORKS RD., STE. 250, RALEIGH, NC

ISSUED FOR:	
REV	DATE DESCRIPTION
0	12/05/25 ISSUED FOR CONSTRUCTION

COA: 4011

EXPIRES: 12/31/2025

STATE OF KENTUCKY

MILANOWSKI

25311

PROFESSIONAL ENGINEER

BRAD R.

12/9/25

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PROJECT INFORMATION:

PROJECT NO: 25-009277
SITE NAME: CK BONNIEVILLE
SITE NO: KY-4130
CLIENT NAME: APC TOWERS IV, LLC
DRAWN BY: CLINT COODY
CHECKED BY: JL

SHEET TITLE:

ANCHOR BLOCK FOUNDATION

SHEET NUMBER: GT-ABF

REVISION: 0

NOTES:

1. REINFORCEMENT STEEL SHALL CONFORM TO THE REQUIREMENT OF ASTM A-615 (GRADE 60) EXCEPT THAT TIES MAY BE ASTM-615 (GRADE 40) WITH MINIMUM CLEAR COVER.

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4. GEOTECHNICAL PROPERTIES BY: ENGINEERED TOWER SOLUTIONS

5. PROJECT NUMBER: 25140692

6. DATE: NOVEMBER 4, 2025

7. THIS FOUNDATION HAS BEEN DESIGNED IN ACCORDANCE WITH THE TIA 222-H STANDARD, SPECIFICALLY FOR THE TOWER AND SOIL CONDITION REFERENCED ABOVE. IF ANYTHING DIFFERS THIS DESIGN SHALL BE CONSIDERED INVALID AND MUST BE REDESIGNED PRIOR TO CONSTRUCTION.

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14. VERIFY ALL DIMENSIONS AGAINST MANUFACTURER'S DRAWINGS.

15. ANCHOR SHAFT: BY TOWER MANUFACTURER

STIPULATION FOR REUSE:

1. THIS DRAWING WAS SPECIFICALLY DESIGNED FOR USE BY THE CUSTOMER ON THIS DRAWING AT THE SPECIFIED LOCATION. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF A PROPERLY LICENSED ENGINEER.

REINFORCING SCHEDULE			SIZE	TOTAL QTY 3 ANCHORS
STIRRUPS			# 4	51
LONGITUDINAL BARS TOP			# 6	9
LONGITUDINAL BARS FRONT			# 6	9
LONGITUDINAL BARS BACK			# 6	3
LONGITUDINAL BARS BOTTOM			# 6	6

DIMENSIONING SCHEDULE	
A	2'-0"
B	2'-0"
C	14'-6"
D	0'-6"
E	0'-6"
F	175'-0"
G	5'-0"
H	4'-7-9/16"
ANGLE	46.7°

BASE REACTIONS: (FACTORED LOADS)		
VERTICAL		53 KIPS
HORIZONTAL		50 KIPS

1 PLAN
SCALE: N.T.S.



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(918) 587-4630



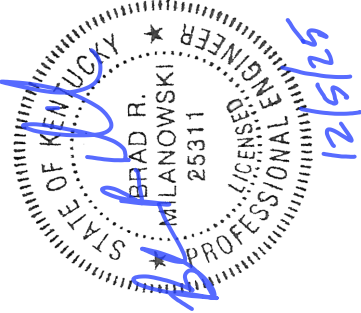
8601 SIX FORKS RD., STE. 250, RALEIGH, NC

ISSUED FOR:

REV	DATE	DESCRIPTION
0	12/05/25	ISSUED FOR CONSTRUCTION

COA: 4011

EXPIRES: 12/31/2025



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DOCUMENT

PROJECT INFORMATION:

PROJECT NO: 25-009277
SITE NAME: CK BONNIEVILLE
SITE NO: KY-4130
CLIENT NAME: APC TOWERS IV, LLC

DRAWN BY: CLINT COODY
CHECKED BY: JL

SHEET TITLE:

DIMENSIONING DETAIL

SHEET NUMBER:

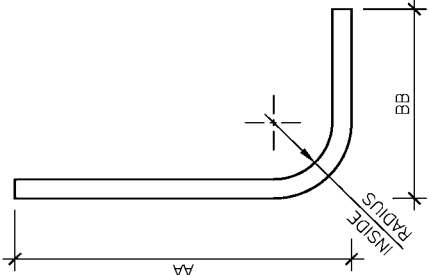
DTL

REVISION:

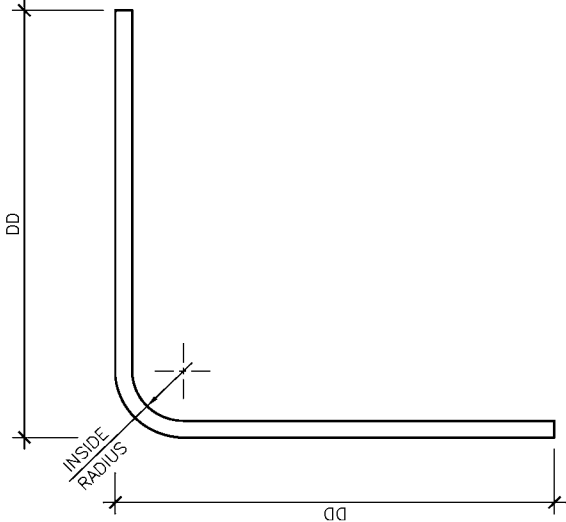
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DIMENSIONING SCHEDULE	
AA*	3' 10-1/2"
BB	1" 0"
CC*	1' 10-5/8"
DD	3' 0"
EE*	1' 6"
FF*	1' 6"
GG	0' 3"

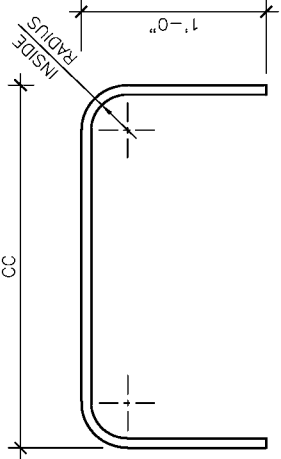
*NOTE: CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO FABRICATION



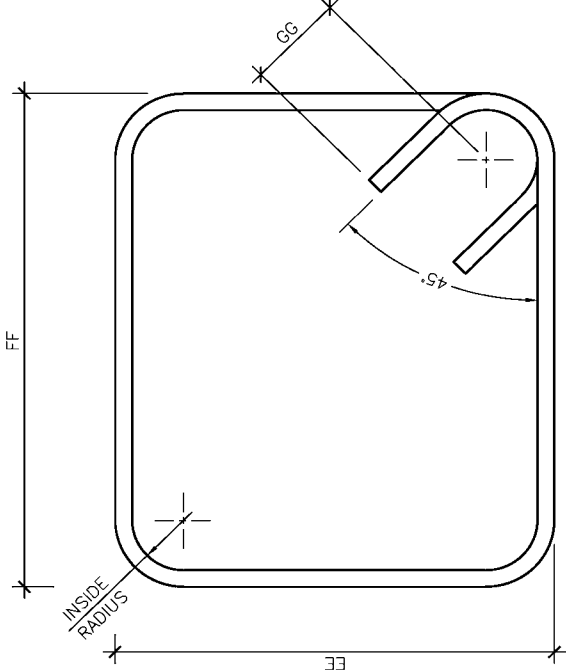
1 L-BAR
SCALE: N.T.S.



3 CORNER BAR
SCALE: N.T.S.



2 HORIZONTAL U-BAR
SCALE: N.T.S.



4 STIRRUP
SCALE: N.T.S.

Pier and Pad Foundation

Project #: 25-009277
 Site Name: CK Bonnieville
 Site #: KY-4130

TIA-222 Revision: H
 Tower Type: Guyed

Top & Bot. Pad Rein. Different?: ☐
 Block Foundation?: ☐
 Rectangular Pad?: ☐

Superstructure Analysis Reactions		
Compression, P_{comp} :	211	kips
Base Shear, Vu_{comp} :	1	kips
Moment, M_u :	0	ft-kips
Tower Height, H :	245	ft
BP Dist. Above Fdn, bp_{dist} :	0	in
Bolt Circle / Bearing Plate Width, BC :	12	in

Pier Properties		
Pier Shape:	Circular	
Pier Diameter, $dpier$:	2.5	ft
Ext. Above Grade, E :	0.5	ft
Pier Rebar Size, Sc :	6	
Pier Rebar Quantity, mc :	9	
Pier Tie/Spiral Size, St :	4	
Pier Tie/Spiral Quantity, mt :		
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier} :	3	in

Pad Properties		
Depth, D :	4	ft
Pad Width, W_1 :	7	ft
Pad Thickness, T :	1.5	ft
Pad Rebar Size (Bottom dir. 2), Sp_2 :	6	
Pad Rebar Quantity (Bottom dir. 2), mp_2 :	8	
Pad Clear Cover, cc_{pad} :	3	in

Material Properties		
Rebar Grade, F_y :	60	ksi
Concrete Compressive Strength, F'_c :	4	ksi
Dry Concrete Density, δc :	150	pcf

Soil Properties		
Total Soil Unit Weight, γ :	110	pcf
Ultimate Net Bearing, Q_{net} :	8.500	ksf
Cohesion, C_u :	1.300	ksf
Friction Angle, ϕ :	0	degrees
SPT Blow Count, N_{blows} :		
Base Friction, μ :	0.3	
Neglected Depth, N :	1.67	ft
Foundation Bearing on Rock?	Yes	
Groundwater Depth, gw :	N/a	ft

Foundation Analysis Checks				
	Capacity	Demand	Rating	Check
Lateral (Sliding) (kips)	54.76	1.00	1.8%	Pass
Bearing Pressure (ksf)	5.36	5.04	93.9%	Pass
Overturning (kip*ft)	68.60	4.50	6.6%	Pass
Pier Flexure (Comp.) (kip*ft)	366.96	3.00	0.8%	Pass
Pier Compression (kip)	3124.31	213.65	6.8%	Pass
Pad Flexure (kip*ft)	213.92	77.77	36.4%	Pass
Pad Shear - 1-way (kips)	110.57	33.64	30.4%	Pass
Pad Shear - 2-way (Comp) (ksi)	0.190	0.062	32.8%	Pass
Flexural 2-way (Comp) (kip*ft)	427.85	1.80	0.4%	Pass

Structural Rating: 36.4%
 Soil Rating: 93.9%

<--Toggle between Gross and Net

Guyed Anchor Block Foundation

Checks capacity of anchor blocks for a guyed tower.

Project #:	25-009277
Site Name:	CK Bonnieville
Site #:	KY-4130
Location:	

TIA-222 Revision: H

Design Reactions				
Shear, S:	50.00	kips		
Uplift, Ua:	53.00	kips		
Resultant Force, Rf:	72.86	kips		
Tower Height, H:	245.00	ft		
Guy Anchor Radius, R:	175.00	ft		
Resultant Angle to Horizontal, θ:	46.7	deg		

Guy Anchor Properties	
Depth to Bottom of Deadman, Da:	7 ft
Anchor Width, Wa:	2 ft
Anchor Thickness, Ta:	2 ft
Anchor Length, La:	14.5 ft
Concrete Volume, Vc:	2.1 yd ³
Toe Width, toe:	ft
Guyed Anchor Top Rebar Size, Sat:	6
No. of Bars in Top of Block:	3
Guyed Anchor Front Rebar Size, Saf:	6
No. of Bars in Front of Block:	3
Stirrup Size:	4

Material Properties		
Rebar Grade, Fy:	60	ksi
Concrete Strength, F'c:	4	ksi
Wt. Avg. Concrete Density, δx:	0.150	kcf
Clear Cover, cc:	3	in

Design Checks				
	Capacity	Demand	Rating	Check
Lateral Capacity (kips):	60.34	50.00	82.9%	Pass
Uplift Capacity (kips):	57.17	53.00	92.7%	Pass
Lateral Flexural Capacity (ft*kips):	116.66	90.63	77.7%	Pass
Uplift Flexural Capacity (ft*kips):	116.66	96.06	82.3%	Pass

Anchor Shaft Rating:	N/A
Structural Rating:	82.3%
Soil Rating:	92.7%

Neglect Depth, Neg:	1.666666667 ft
Groundwater Level, gw:	N/a ft

Soil Properties:				
Layer	φ, deg	c _u , ksf	δ, pcf	d, ft
1	38	0.000	110	7.00
				Ultimate fs (ksf)
				N (blows/ft)

*key: φ = Internal Angle of Friction
c_u = Cohesion / Undrained Shear Strength
δ = Buoyant Soil Unit Weight
d = Depth to Bottom of Layer
Ultimate fs = Geotechnical Report-provided skin friction / adhesion
N = SPT Blow Count



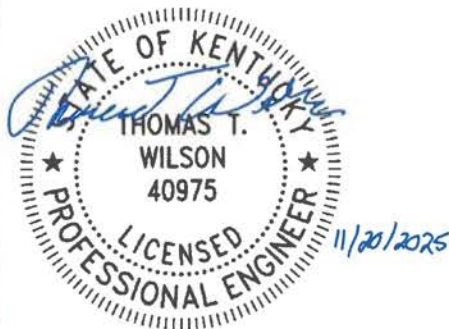
Structural Design Report
245' 3600SRWD Guyed Tower
Site: CK Bonnieville, KY
Site Number: KY-4130

Prepared for: APC TOWERS
by: Sabre Industries™

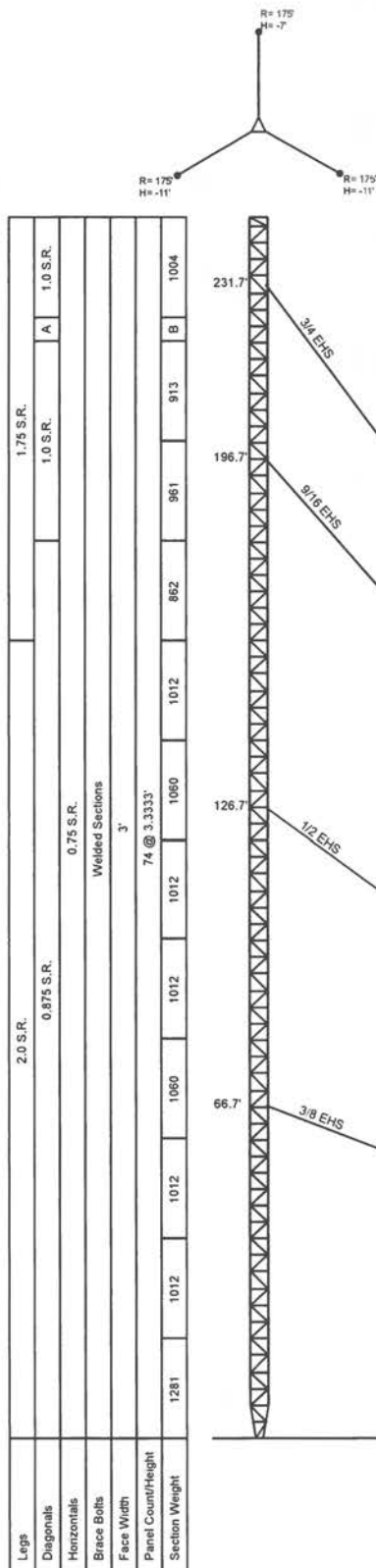
Job Number: 26-2766-JDS

November 20, 2025

Tower Profile.....	1
Line Arrangement.....	2
Maximum Leg Loads and Face Shears.....	3
Maximum Deflections, Tilts, and Twists.....	4
Maximum Guy Tensions, Anchor Loads, and Base Loads.....	5
Calculations.....	6-24



Digitally Signed By Tom Wilson
DN: c=US, st=Texas,
l=Alvarado, o=SABRE
INDUSTRIES, INC., cn=Tom
Wilson,
email=twilson@sabreindustries.
com Date: 2025.11.20 16:04:41



Designed Appurtenance Loading

Elev	Description	Tx-Line
240	(1) 42,000 Sq. Inches (12,000 lbs) (below top)	(18) 1 5/8"
225	(1) 30,000 Sq. Inches 8,000# (below top)	(12) 1 5/8"
210	(1) 30,000 Sq. Inches 8,000# (below top)	(12) 1 5/8"

Design Criteria - ANSI/TIA-222-H

Wind Speed (No Ice)	105 mph
Wind Speed (Ice)	30 mph
Design Ice Thickness	1.50 in
Risk Category	II
Exposure Category	C
Topographic Factor Procedure	Method 1 (Simplified)
Topographic Category	1
Ground Elevation	675 ft

Base Reactions - Wind/Ice

Total Foundation		Guy Anchor	
Axial (kips)	211.45	Max Vertical (kips)	53.24
Shear (kips)	1.3	Max Horizontal (kips)	50.39

Guy Tension Chart

Anchor Loc.	Guy Elev.	Guy Radius	Anchor Elev.	Guy Size	I.T. (Lbs.)
A	231.7'	175'	-7'	3/4 EHS	5767
	196.7'	175'	-7'	9/16 EHS	3461
	126.7'	175'	-7'	1/2 EHS	2660
	66.7'	175'	-7'	3/8 EHS	1527
B	231.7'	175'	-11'	3/4 EHS	5830
	196.7'	175'	-11'	9/16 EHS	3500
	126.7'	175'	-11'	1/2 EHS	2690
	66.7'	175'	-11'	3/8 EHS	1540
C	231.7'	175'	-11'	3/4 EHS	5830
	196.7'	175'	-11'	9/16 EHS	3500
	126.7'	175'	-11'	1/2 EHS	2690
	66.7'	175'	-11'	3/8 EHS	1540

Material List

Display	Value
A	0.875 S.R.
B	269

Notes

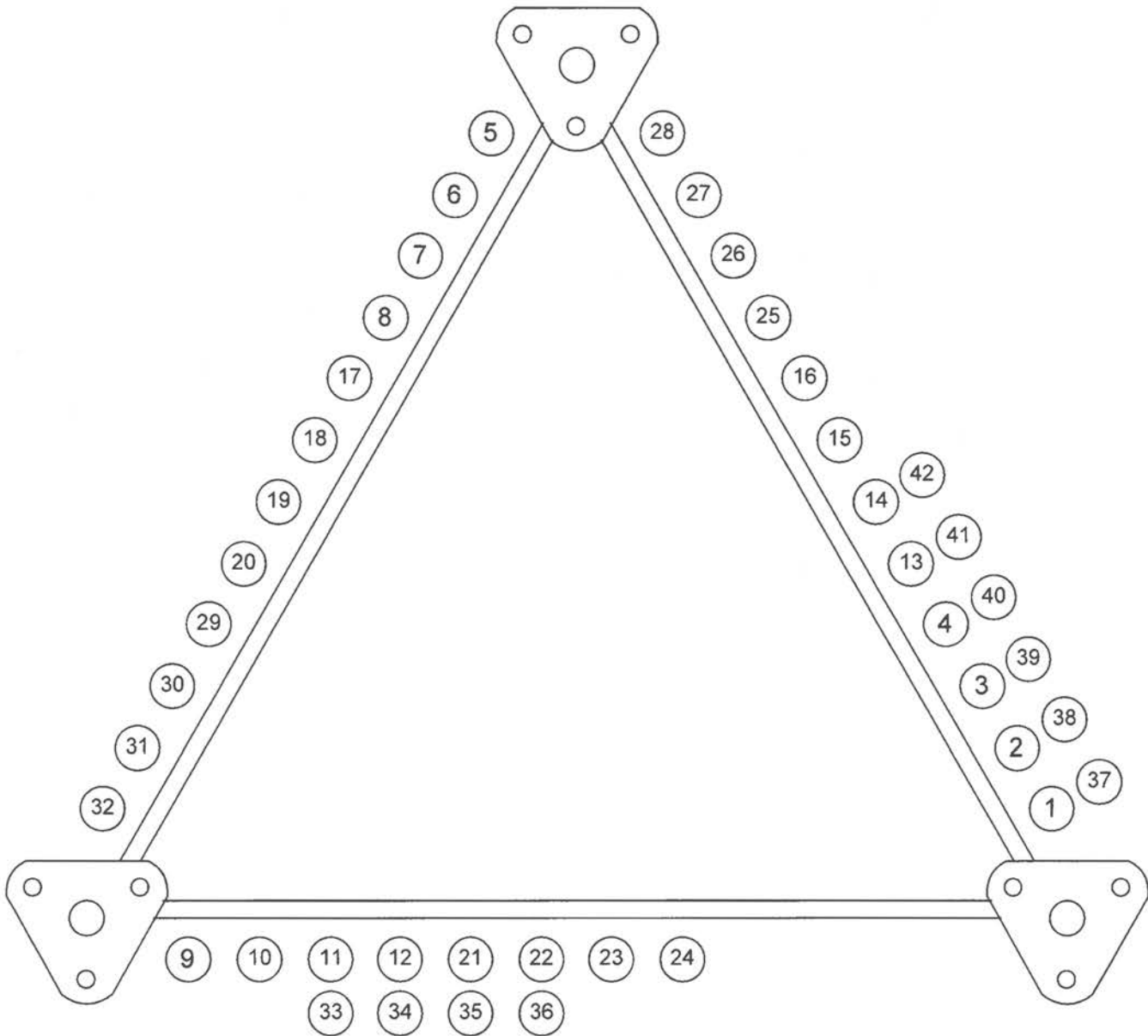
- 1) The tower model is 3600SRWD.
- 2) Lines are to be attached as shown on the cross-section drawing.
- 3) Guy lengths shown are not cut lengths.
- 4) Azimuths are relative (not based on true north).
- 5) See the Guy Tensions, Anchor Loads and Base Loads page(s) for maximum foundation loads.
- 6) Weights shown are estimates. Final weights may vary.
- 7) All legs are A572 Grade 50.
- 8) All braces are A36.
- 9) This tower design and, if applicable, the foundation design(s) shown on the following page(s) also meet or exceed the requirements of the 2015 International Building Code.
- 10) Tower Rating: 96%
- 11) Use 2" diameter (Fy = 50 ksi) anchor rods.

sabre


Sabre Industries
7101 Southbridge Drive
P.O. Box 658
Sioux City, IA 51102-0658
Phone (712) 258-6690
Fax (712) 279-0814

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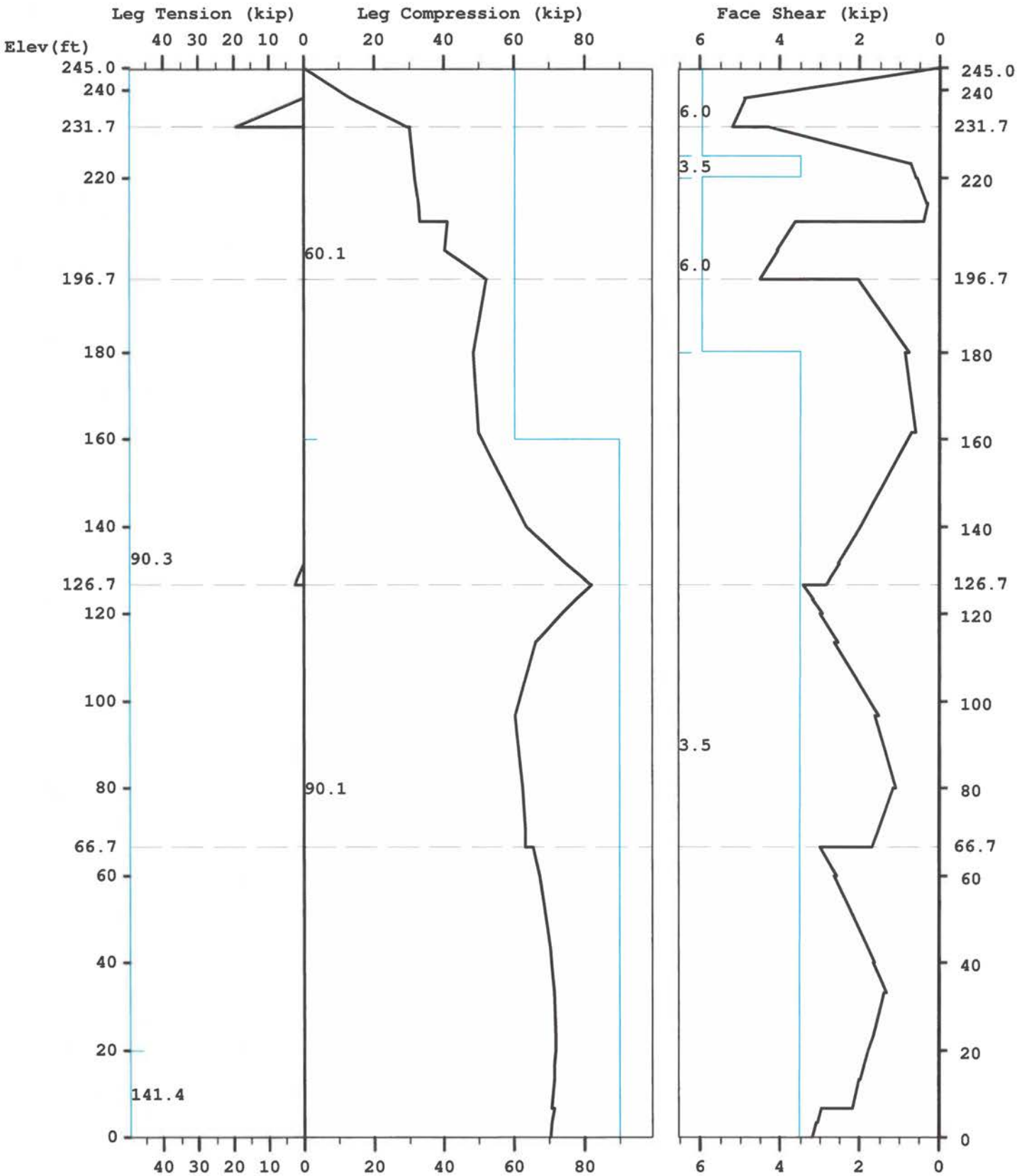
Job: 26-2766-JDS
Customer: APC TOWERS
Site Name: CK Bonnieville, KY KY-4130
Description: 245' 3600SRWD
Date: 11/20/2025 By: TTW



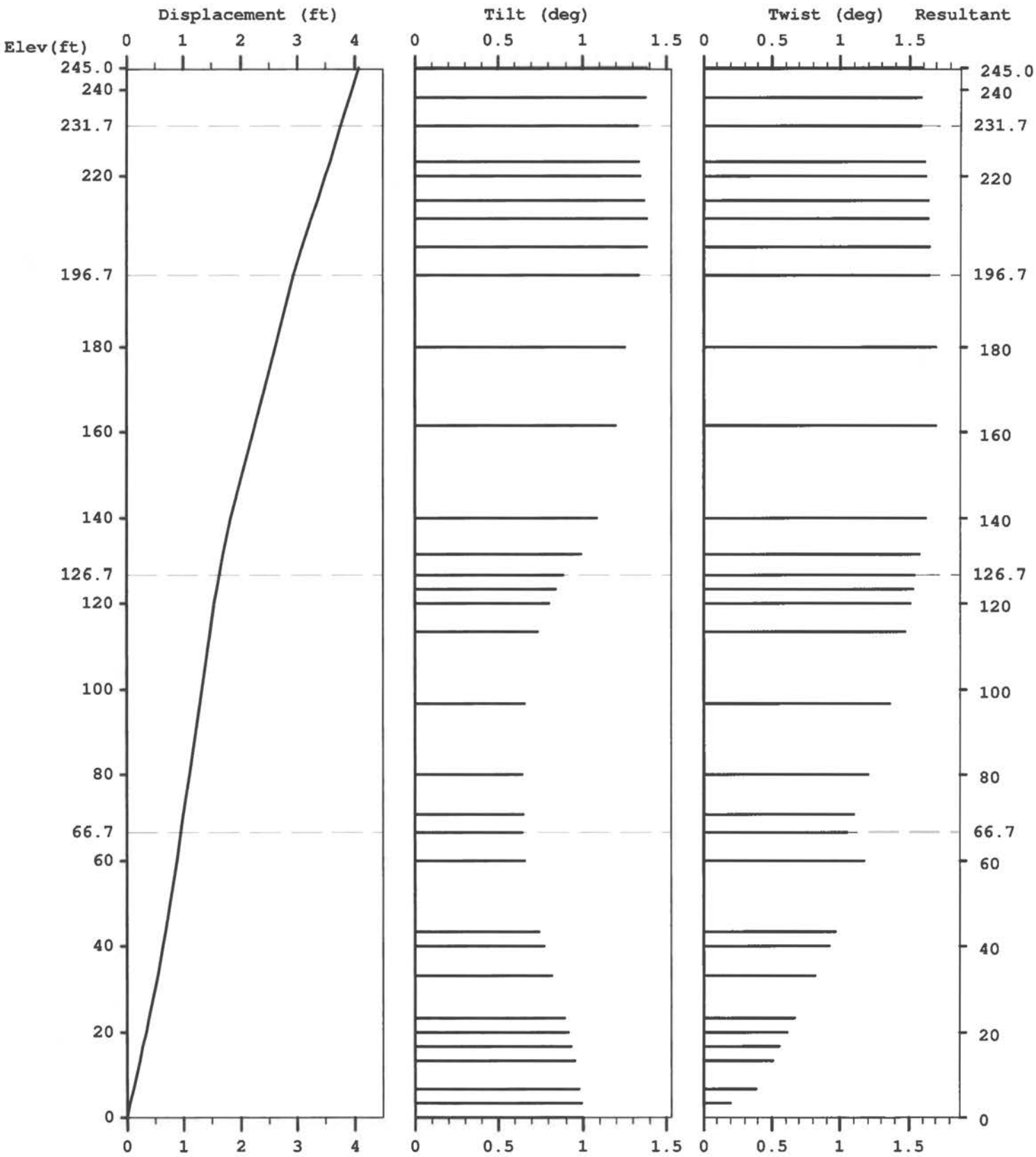
NOTE: THE LINES ARE NUMBERED FROM HIGHEST ELEVATION TO LOWEST ELEVATION

 <p>Sabre Industries 7101 Southbridge Drive P.O. Box 658 Sioux City, IA 51102-0658 Phone: (712) 258-6690 Fax: (712) 279-0814</p> <p><small>Information contained herein is the sole property of Sabre Communications Corporation, constitutes a trade secret as defined by Iowa Code Ch. 550 and shall not be reproduced, copied or used in whole or part for any purpose whatsoever without the prior written consent of Sabre Communications Corporation.</small></p>	Job: 26-2766-JDS Customer: APC TOWERS Site Name: CK Bonnieville, KY KY-4130 Description: 245' 3600SRWD Date: 11/20/2025	By: TTW

Maximum

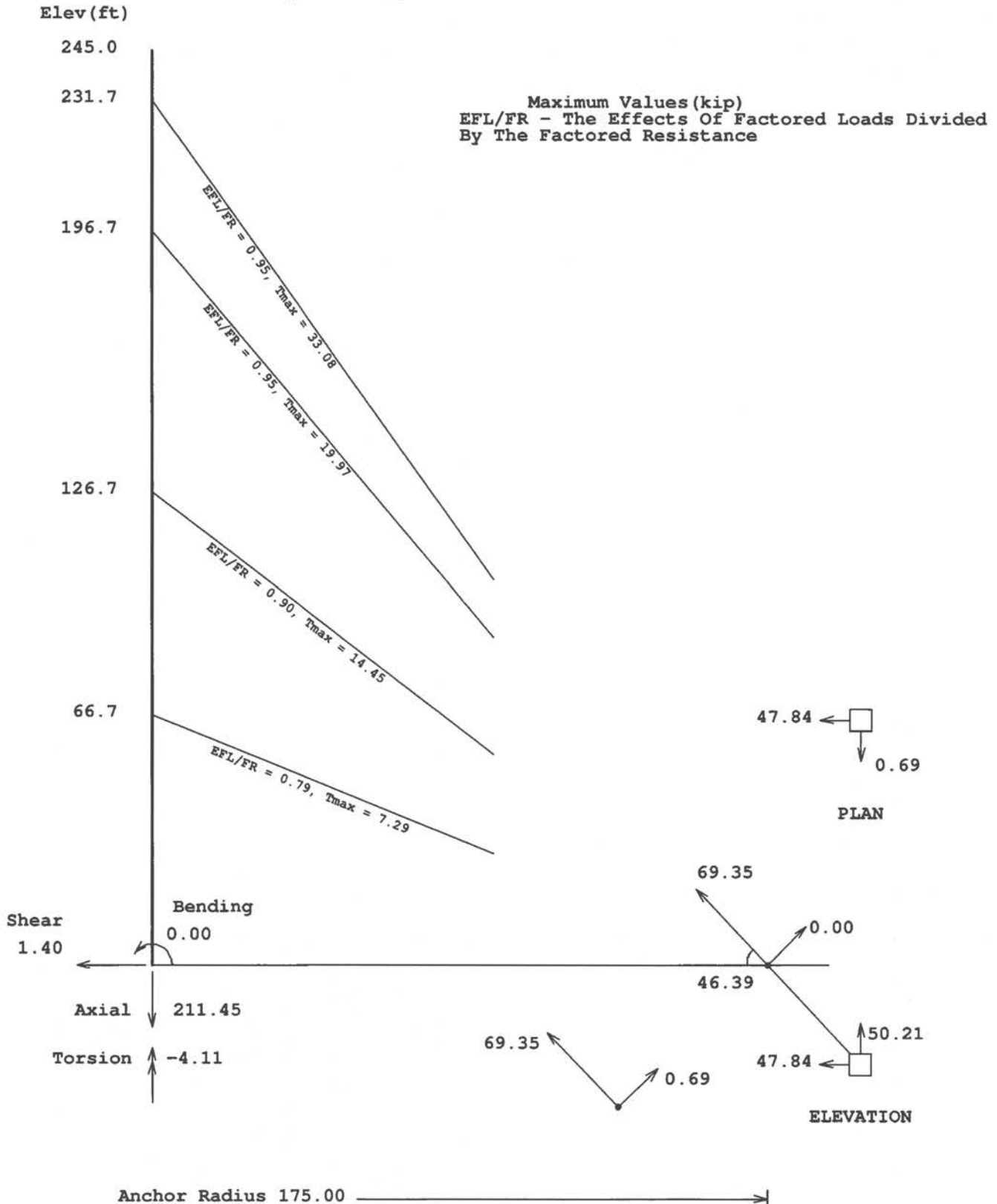


Maximum



Maximum

Guy Tensions, Anchor Loads and Base Loads



```

=====
GUYMAST (USA)-Guyed Tower Analysis (c)2005 Guymast Inc.
Tel:(416)736-7453 Fax:(416)736-4372 Web:www.guymast.com
Processed under license at:
Sabre Towers and Poles on: 20 nov 2025 at: 15:18:21
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MAST DATA
=====

UPPER ELEV FT	MAST TYPE OF WEB	NO OF LEGS *	FACE WIDTH FT *	GEOM PANEL HEIGHT FT *	X-SECTION-AREA ONE LEG IN.SQ.	ONE DIAG IN.SQ. *	BARE WEIGHT K/FT.	ELASTIC MODULUS KIP/IN.SQ	TEMP COEFF /DEG
245.0	4	3	3.000	3.333	2.410	0.790	0.039	29000.0	0.0000117
241.7	4	3	3.000	3.333	2.410	0.790	0.025	29000.0	0.0000117
240.0	4	3	3.000	3.333	2.410	0.790	0.039	29000.0	0.0000117
223.3	4	3	3.000	3.333	2.410	0.600	0.037	29000.0	0.0000117
220.0	4	3	3.000	3.333	2.410	0.790	0.039	29000.0	0.0000117
180.0	4	3	3.000	3.333	2.410	0.600	0.037	29000.0	0.0000117
160.0	4	3	3.000	3.333	3.140	0.600	0.044	29000.0	0.0000117
6.7	4	3	2.000	3.333	3.140	0.600	0.045	29000.0	0.0000117
3.3	4	3	2.000	3.333	3.140	0.600	0.042	29000.0	0.0000117

* If NO OF LEGS is 1 : that part of the mast is assumed to be Cylindrical
and : FACE WIDTH = outside diameter
PANEL HEIGHT = thickness
AREA OF DIAG = Poisson ratio

GUY GEOMETRY
=====

ELEV FT	GUY AZI DEG	DIAMETER IN.	HEIGHT FT.	RADIUS FT.	MAST ATTACH RADIUS FT.	ATTACH AZI DEG	INITIAL TENSION KIP
231.7	240.0	0.750	242.7	175.0	1.732	240.0	5.830000
231.7	120.0	0.750	242.7	175.0	1.732	120.0	5.830000
231.7	0.0	0.750	238.7	175.0	1.732	0.0	5.770000
196.7	240.0	0.562	207.7	175.0	1.732	240.0	3.500000
196.7	120.0	0.562	207.7	175.0	1.732	120.0	3.500000
196.7	0.0	0.562	203.7	175.0	1.732	0.0	3.460000
126.7	240.0	0.500	137.7	175.0	1.732	240.0	2.690000
126.7	120.0	0.500	137.7	175.0	1.732	120.0	2.690000
126.7	0.0	0.500	133.7	175.0	1.732	0.0	2.660000
66.7	240.0	0.375	77.7	175.0	1.732	240.0	1.540000
66.7	120.0	0.375	77.7	175.0	1.732	120.0	1.540000
66.7	0.0	0.375	73.7	175.0	1.732	0.0	1.530000

GUY MATERIAL PROPERTIES
=====

ELEV FT	GUY AZI DEG	BREAKING STRENGTH KIP	GUY WEIGHT LBS/FT	GUY AREA IN.SQ	ELASTIC MODULUS KIP/IN.SQ	THERMAL COEFF /DEG	UNSTRESS LENGTH FT
231.7	240.0	58.300	1.180	0.338	19000.0	0.0000117	297.93396
231.7	120.0	58.300	1.180	0.338	19000.0	0.0000117	297.93396
231.7	0.0	58.300	1.180	0.338	19000.0	0.0000117	294.69452

196.7	240.0	35.000	0.665	0.190	20000.0	0.0000117	270.23599
196.7	120.0	35.000	0.665	0.190	20000.0	0.0000117	270.23599
196.7	0.0	35.000	0.665	0.190	20000.0	0.0000117	267.18332
126.7	240.0	26.900	0.525	0.150	20000.0	0.0000117	221.12747
126.7	120.0	26.900	0.525	0.150	20000.0	0.0000117	221.12747
126.7	0.0	26.900	0.525	0.150	20000.0	0.0000117	218.66640
66.7	240.0	15.400	0.270	0.084	21000.0	0.0000117	189.73135
66.7	120.0	15.400	0.270	0.084	21000.0	0.0000117	189.73135
66.7	0.0	15.400	0.270	0.084	21000.0	0.0000117	188.13292

FACTORED LEG AND FACE SHEAR RESISTANCE

=====

BOTTOM ELEV ft	TOP ELEV ft	LEG COMP kip	FACE SHEAR kip	LEG TENS kip	DIAG COMP kip	DIAG TENS kip
0.00	20.00	90.09	3.54	141.37	0.00	0.00
20.00	40.00	90.09	3.54	90.30	0.00	0.00
40.00	60.00	90.09	3.54	90.30	0.00	0.00
60.00	80.00	90.09	3.54	90.30	0.00	0.00
80.00	100.00	90.09	3.54	90.30	0.00	0.00
100.00	120.00	90.09	3.54	90.30	0.00	0.00
120.00	140.00	90.09	3.54	90.30	0.00	0.00
140.00	160.00	90.09	3.54	90.30	0.00	0.00
160.00	180.00	60.09	3.49	90.30	0.00	0.00
180.00	200.00	60.09	5.96	90.30	0.00	0.00
200.00	220.00	60.09	5.96	90.30	0.00	0.00
220.00	225.00	60.09	3.49	90.30	0.00	0.00
225.00	245.00	60.09	5.96	90.30	0.00	0.00

=====

* 12 wind directions were analyzed. Only 2 condition(s) shown in full

=====

LOADING CONDITION A

105 mph wind with no ice. Wind Azimuth: 0°

MAST LOADING

=====

LOAD TYPE	ELEV FT	.FORCES N	.FORCES (KIP & KIP/FT)		.MOMENTS (FT.K & FT.K/FT)			ANT-ORIENT	
			E	DOWN	N	E	TORSION	AZI DEG	VERT DEG
C	240.0	-7.065	0.000	14.400	0.00	0.00	0.00	0.0	0.00
C	225.0	-4.979	0.000	9.600	0.00	0.00	0.00	0.0	0.00
C	210.0	-4.907	0.000	9.600	0.00	0.00	0.00	0.0	0.00
D	245.0	-0.030	0.000	0.059	0.00	0.00	0.00		
D	241.7	-0.030	0.000	0.059	0.00	0.00	0.00		
D	241.7	-0.034	0.000	0.071	0.00	0.00	0.00		
D	240.0	-0.034	0.000	0.071	0.00	0.00	0.00		
D	240.0	-0.071	0.000	0.082	0.00	0.00	0.00		
D	226.7	-0.071	0.000	0.082	0.00	0.00	0.00		
D	226.7	-0.083	0.000	0.089	0.00	0.00	0.00		
D	223.3	-0.083	0.000	0.089	0.00	0.00	0.00		
D	223.3	-0.095	0.000	0.094	0.00	0.00	0.00		
D	210.0	-0.095	0.000	0.097	0.00	0.00	0.00		
D	210.0	-0.105	0.000	0.112	0.00	0.01	0.00		
D	200.0	-0.105	0.000	0.112	0.00	0.01	0.00		
D	200.0	-0.103	0.000	0.112	0.00	0.01	0.00		
D	180.0	-0.104	0.000	0.112	0.00	0.01	0.00		
D	180.0	-0.100	0.000	0.109	0.00	0.01	0.00		
D	160.0	-0.101	0.000	0.109	0.00	0.01	0.00		
D	160.0	-0.099	0.000	0.118	0.00	0.01	0.00		
D	140.0	-0.100	0.000	0.118	0.00	0.01	0.00		
D	140.0	-0.096	0.000	0.118	0.00	0.01	0.00		
D	120.0	-0.097	0.000	0.118	0.00	0.01	0.00		
D	120.0	-0.092	0.000	0.118	0.00	0.01	0.00		
D	100.0	-0.094	0.000	0.118	0.00	0.01	0.00		
D	100.0	-0.088	0.000	0.118	0.00	0.01	0.00		
D	80.0	-0.090	0.000	0.118	0.00	0.01	0.00		
D	80.0	-0.083	0.000	0.118	0.00	0.01	0.00		
D	60.0	-0.086	0.000	0.118	0.00	0.01	0.00		
D	60.0	-0.077	0.000	0.118	0.00	0.01	0.00		

D	40.0	-0.080	0.000	0.118	0.00	0.01	0.00
D	40.0	-0.068	0.000	0.118	0.00	0.01	0.00
D	23.3	-0.072	0.000	0.118	0.00	0.01	0.00
D	23.3	-0.073	0.000	0.118	0.00	0.01	0.00
D	20.0	-0.073	0.000	0.118	0.00	0.01	0.00
D	20.0	-0.062	0.000	0.118	0.00	0.01	0.00
D	6.7	-0.063	0.000	0.118	0.00	0.01	0.00
D	6.7	-0.063	0.000	0.118	0.00	0.01	0.00
D	0.0	-0.062	0.000	0.115	0.00	0.01	0.00

GUY LOADING

=====

.. WIND LOADING ..			TEMP	.ICE LOAD..		CONV	PROFILES.	.LOAD FACTORS.			
AZI	SPEED	REF	CHANGE	RAD	DENS	TOL	CAB	WIND	WIND	DEAD	ICE
DEG	MPH	PRESS	DEG	IN	PCF						

0.0	105.0	0.00	0.00	0.00	56.00	0.0100	1	4	1.00	1.00	1.00
-----	-------	------	------	------	-------	--------	---	---	------	------	------

CABLE PROFILE: 1 - CATENARY 2 - PARABOLIC

WIND PROFILE: 1 - EIA 222 default
 2 - Constant Kz=1, Kiz=1
 3 - Step function for Kz, Kiz
 (requires definition of Exposure Factor Kz, Kiz table)
 4 - Special Factors
 5 - Site specific wind formula, Kiz as EIA 222 default
 (requires definition of Exposure Factor Qh formula table)

=====

LOADING CONDITION M

30 mph wind with 1.5 ice. Wind Azimuth: 0°

MAST LOADING

=====

LOAD TYPE	ELEV FT	.FORCES N	(KIP & KIP/FT)		.MOMENTS(FT.K & FT.K/FT)			ANT-ORIENT	
			E	DOWN	N	E	TORSION	AZI DEG	VERT DEG
C	240.0	-0.999	0.000	36.350	0.00	0.00	0.00	0.0	0.00
C	225.0	-0.702	0.000	24.139	0.00	0.00	0.00	0.0	0.00
C	210.0	-0.690	0.000	24.039	0.00	0.00	0.00	0.0	0.00
D	245.0	-0.007	0.000	0.152	-0.01	0.01	0.00		
D	241.7	-0.007	0.000	0.152	-0.01	0.01	0.00		
D	241.7	-0.008	0.000	0.191	-0.01	0.01	0.00		
D	240.0	-0.008	0.000	0.191	-0.01	0.01	0.00		
D	240.0	-0.012	0.000	0.260	0.01	0.01	0.00		
D	236.7	-0.012	0.000	0.260	0.01	0.01	0.00		
D	236.7	-0.012	0.000	0.233	0.00	0.01	0.00		
D	233.3	-0.012	0.000	0.233	0.00	0.01	0.00		
D	233.3	-0.012	0.000	0.206	0.00	0.01	0.00		
D	230.0	-0.012	0.000	0.206	0.00	0.01	0.00		
D	230.0	-0.012	0.000	0.178	0.00	0.01	0.00		
D	226.7	-0.012	0.000	0.178	0.00	0.01	0.00		
D	226.7	-0.014	0.000	0.220	0.02	0.01	0.00		
D	223.3	-0.014	0.000	0.220	0.02	0.01	0.00		
D	223.3	-0.015	0.000	0.273	0.02	0.01	0.00		
D	220.0	-0.015	0.000	0.273	0.02	0.01	0.00		
D	220.0	-0.015	0.000	0.305	0.04	0.01	0.00		
D	210.0	-0.015	0.000	0.288	0.05	0.01	0.00		
D	210.0	-0.015	0.000	0.310	0.07	0.01	0.00		
D	206.7	-0.015	0.000	0.310	0.07	0.01	0.00		
D	206.7	-0.015	0.000	0.309	0.06	0.01	0.00		
D	203.3	-0.015	0.000	0.309	0.06	0.01	0.00		
D	203.3	-0.015	0.000	0.309	0.04	0.01	0.00		
D	200.0	-0.015	0.000	0.309	0.04	0.01	0.00		
D	200.0	-0.015	0.000	0.308	0.08	0.02	0.00		
D	180.0	-0.015	0.000	0.308	0.08	0.02	0.00		
D	180.0	-0.015	0.000	0.303	0.07	0.02	0.00		
D	160.0	-0.015	0.000	0.302	0.07	0.02	0.00		
D	160.0	-0.014	0.000	0.311	0.07	0.02	0.00		
D	140.0	-0.014	0.000	0.310	0.07	0.02	0.00		

D	140.0	-0.014	0.000	0.309	0.07	0.02	0.00
D	120.0	-0.014	0.000	0.308	0.07	0.02	0.00
D	120.0	-0.013	0.000	0.306	0.07	0.02	0.00
D	100.0	-0.013	0.000	0.306	0.07	0.02	0.00
D	100.0	-0.013	0.000	0.301	0.07	0.02	0.00
D	80.0	-0.013	0.000	0.302	0.07	0.02	0.00
D	80.0	-0.012	0.000	0.297	0.07	0.02	0.00
D	60.0	-0.012	0.000	0.297	0.07	0.02	0.00
D	60.0	-0.011	0.000	0.292	0.06	0.02	0.00
D	40.0	-0.011	0.000	0.292	0.07	0.02	0.00
D	40.0	-0.009	0.000	0.285	0.06	0.02	0.00
D	20.0	-0.010	0.000	0.284	0.06	0.02	0.00
D	20.0	-0.007	0.000	0.111	0.00	0.00	0.00
D	16.7	-0.007	0.000	0.111	0.00	0.00	0.00
D	16.7	-0.007	0.000	0.140	0.01	0.00	0.00
D	13.3	-0.007	0.000	0.140	0.01	0.00	0.00
D	13.3	-0.007	0.000	0.169	0.02	0.01	0.00
D	10.0	-0.007	0.000	0.169	0.02	0.01	0.00
D	10.0	-0.008	0.000	0.198	0.03	0.01	0.00
D	6.7	-0.008	0.000	0.198	0.03	0.01	0.00
D	6.7	-0.008	0.000	0.225	0.04	0.01	0.00
D	3.3	-0.008	0.000	0.225	0.04	0.01	0.00
D	3.3	-0.008	0.000	0.244	0.05	0.01	0.00
D	0.0	-0.008	0.000	0.244	0.05	0.01	0.00

GUY LOADING =====

.. WIND LOADING ...		TEMP	.ICE LOAD..		CONV	PROFILES.	.LOAD FACTORS.		
AZI	SPEED	REF	CHANGE	RAD	DENS	TOL	CAB	WIND	WIND DEAD ICE
DEG	MPH	PRESS	DEG	IN	PCF				
		PSF							
0.0	30.0	0.00	-28.00	1.50	56.00	0.0100	1	4	1.00 1.00 1.00

CABLE PROFILE: 1 - CATENARY 2 - PARABOLIC

WIND PROFILE: 1 - EIA 222 default
 2 - Constant Kz=1, Kiz=1
 3 - Step function for Kz, Kiz
 (requires definition of Exposure Factor Kz, Kiz table)
 4 - Special Factors
 5 - Site specific wind formula, Kiz as EIA 222 default
 (requires definition of Exposure Factor Qh formula table)

===== MAXIMUM LEG LOADS AND FACE SHEARS (KIP - stress in KSI) =====

MAST ELEV FT	MAX LEG LOADS					MAX FACE SHEARS		
	AXIAL	BENDING TENS	COMP	TOTAL TENS	COMP	TORSN	BEAM	TOTAL
245.00	0.0H	0.0H	0.0K	0.0K	0.0H	0.0A	0.0D	0.0D
238.35	12.5S	4.8I	4.8K	0.0A	13.3W	0.0B	-4.9J	4.9J
	12.5S	4.8I	4.8K	0.0A	13.3W	0.0B	-4.9J	4.9D
231.70	13.1S	24.3I	24.3C	19.2I	29.4C	0.1B	-5.3J	5.2D
	21.0S	10.0A	9.5K	0.0A	30.0C	-0.4B	4.7J	4.3J
223.34	29.6S	7.9J	8.4I	0.0A	31.2Q	-0.3B	0.9J	0.8J
	29.6S	7.9J	8.4I	0.0A	31.2Q	-0.3B	0.9J	0.7J
220.00	29.9S	9.1J	9.7I	0.0A	31.7Q	-0.3B	0.6J	0.6B
	29.9S	9.1J	9.7I	0.0A	31.7Q	-0.3B	0.6J	0.6B
214.20	30.5S	10.2J	10.9I	0.0A	32.9J	-0.2B	0.2J	0.3B
	30.5S	10.2J	10.9I	0.0A	32.9J	-0.2B	0.2J	0.3B

210.00	30.9S	10.2J	10.9I	0.0A	33.1J	-0.2B	-0.3G	0.4H
	38.9S	10.2J	10.9I	0.0A	40.8Q	-0.1B	3.5H	3.6H
203.34	39.6S	4.5A	7.2G	0.0A	40.2X	-0.1B	4.0H	4.1H
	39.6S	4.5A	7.2G	0.0A	40.2X	0.0B	4.0H	4.0H
196.70	40.3S	20.4A	23.8G	0.0A	52.0G	0.0D	4.5D	4.5D
	45.7S	12.6A	15.7G	0.0A	52.2G	-0.2B	2.2J	2.0J
180.00	47.5S	3.7J	6.4G	0.0A	48.2P	-0.1B	0.8J	0.8J
	47.5S	3.7J	6.4G	0.0A	48.2P	0.0D	0.8J	0.9J
161.70	49.3S	4.0D	7.8G	0.0A	50.0P	-0.2D	0.7D	0.6G
	49.3S	4.0D	7.8G	0.0A	50.0P	-0.3H	0.7D	0.7H
140.00	51.6S	14.7A	25.0G	0.0A	63.6G	-0.4H	2.4D	2.0D
	51.6S	14.7A	25.0G	0.0A	63.6G	-0.5H	2.4D	2.0K
131.59	52.4S	25.2A	35.7G	0.0A	74.7G	-0.5H	3.1D	2.5D
	52.4S	25.2A	35.7G	0.0A	74.7G	-0.6H	3.1D	2.5D
126.70	52.9S	32.9I	42.9G	2.5I	82.0G	-0.6H	3.4D	2.8D
	56.8S	28.3I	38.7G	0.0A	82.0G	-0.4H	3.1J	3.4J
123.33	57.1S	23.6A	34.1G	0.0A	77.6G	-0.4H	2.8J	3.2J
	57.1S	23.6A	34.1G	0.0A	77.6G	-0.4H	2.8J	3.2J
120.00	57.5S	19.5A	29.9G	0.0A	73.5G	-0.4H	2.5J	2.9J
	57.5S	19.5A	29.9G	0.0A	73.5G	-0.5H	2.5J	3.0J
113.33	58.1S	12.1A	22.3G	0.0A	66.2G	-0.5H	2.1J	2.5J
	58.1S	12.1A	22.3G	0.0A	66.2G	-0.6H	2.1J	2.6J
96.70	59.8S	4.6G	9.2G	0.0A	60.4P	-0.7H	0.8J	1.5H
	59.8S	4.6G	9.2G	0.0A	60.4P	-0.8H	0.8J	1.6H
80.00	61.5S	3.4D	4.8G	0.0A	62.6Q	-0.9H	0.4D	1.1D
	61.5S	3.4D	4.8G	0.0A	62.6Q	-1.0H	0.4D	1.1D
70.75	62.4S	3.1G	6.2G	0.0A	63.2Q	-1.0H	1.0D	1.5D
	62.4S	3.1G	6.2G	0.0A	63.2Q	-1.0H	1.0D	1.5D
66.70	62.8S	3.8G	7.6G	0.0A	63.4W	-1.0H	1.3D	1.7D
	64.8S	3.2G	6.3G	0.0A	65.5Q	-1.0H	2.1J	3.0J
60.00	65.4S	6.6D	6.6J	0.0A	67.2Q	-1.0H	1.6J	2.6J
	65.4S	6.6D	6.6J	0.0A	67.2Q	-1.1H	1.6J	2.6J
43.33	67.1S	17.3D	17.2J	0.0A	70.3Q	-1.2H	-0.6H	1.8H
	67.1S	17.3D	17.2J	0.0A	70.3Q	-1.2H	-0.6H	1.8H
40.00	67.4S	18.2D	18.1J	0.0A	70.8Q	-1.2H	-0.4H	1.6H
	67.4S	18.2D	18.1J	0.0A	70.8Q	-1.3H	-0.4H	1.6H
33.35	68.0S	18.8D	18.8J	0.0A	71.4Q	-1.3H	-0.1G	1.3H
	68.0S	18.8D	18.8J	0.0A	71.4Q	-1.3H	-0.1G	1.4H
23.33	69.0S	16.9D	16.9J	0.0A	71.8Q	-1.4H	0.6D	1.7H
	69.0S	16.9D	16.9J	0.0A	71.8Q	-1.4H	0.6D	1.7H
	69.3S	15.5D	15.5J	0.0A	71.8Q	-1.4H	0.8D	1.8H

20.00	69.3S	15.5D	15.5J	0.0A	71.8Q	-1.4H	0.8D	1.8H
	69.4S	13.7D	13.7J	0.0A	71.6Q	-1.4H	1.0D	1.9H
16.67	69.4S	13.7D	13.7J	0.0A	71.6Q	-1.5H	1.0D	1.9H
	69.6S	11.6D	11.6J	0.0A	71.3Q	-1.5H	1.1D	2.0H
13.33	69.6S	11.6D	11.6J	0.0A	71.3Q	-1.5H	1.1D	2.0H
	70.0S	6.4D	6.4J	0.0A	70.8Q	-1.5H	1.5D	2.2H
6.67	70.0S	9.6D	9.6J	0.0A	71.4Q	-2.3H	1.5D	3.0H
	70.2S	5.0D	5.0J	0.0A	70.8Q	-2.3H	1.6D	3.1H
3.33	70.2S	5.0D	5.0J	0.0A	70.8Q	-2.4H	1.6D	3.1H
	70.5S	0.0K	0.0J	0.0A	70.5S	-2.4H	1.8D	3.2H
0.00								

FORCE/RESISTANCE RATIO

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MAST ELEV ft	- LEG COMPRESSION -			--- LEG TENSION ---			---- FACE SHEAR ----		
	MAX COMP	COMP RESIST	FORCE/ RESIST RATIO	MAX TENS	TENS RESIST	FORCE/ RESIST RATIO	MAX FACE SHEAR	FACE SHEAR RESIST	FORCE/ RESIST RATIO
245.00	0.00	60.09	0.00	0.00	90.30	0.00	0.00	5.96	0.00
	13.26	60.09	0.22	0.00	90.30	0.00	4.89	5.96	0.82
238.35	13.26	60.09	0.22	0.00	90.30	0.00	4.86	5.96	0.82
	29.40	60.09	0.49	19.16	90.30	0.21	5.21	5.96	0.87
231.70	30.02	60.09	0.50	0.00	90.30	0.00	4.33	5.96	0.73
	30.93	60.09	0.51	0.00	90.30	0.00	1.47	5.96	0.25
225.00	30.93	60.09	0.51	0.00	90.30	0.00	1.47	3.49	0.42
	31.16	60.09	0.52	0.00	90.30	0.00	0.76	3.49	0.22
223.34	31.16	60.09	0.52	0.00	90.30	0.00	0.74	3.49	0.21
	31.68	60.09	0.53	0.00	90.30	0.00	0.60	3.49	0.17
220.00	31.68	60.09	0.53	0.00	90.30	0.00	0.56	5.96	0.09
	32.87	60.09	0.55	0.00	90.30	0.00	0.33	5.96	0.06
214.20	32.87	60.09	0.55	0.00	90.30	0.00	0.30	5.96	0.05
	33.06	60.09	0.55	0.00	90.30	0.00	0.40	5.96	0.07
210.00	40.83	60.09	0.68	0.00	90.30	0.00	3.62	5.96	0.61
	40.23	60.09	0.67	0.00	90.30	0.00	4.08	5.96	0.69
203.34	40.23	60.09	0.67	0.00	90.30	0.00	4.04	5.96	0.68
	46.13	60.09	0.77	0.00	90.30	0.00	4.27	5.96	0.72
200.00	46.13	60.09	0.77	0.00	90.30	0.00	4.27	5.96	0.72
	51.96	60.09	0.86	0.00	90.30	0.00	4.50	5.96	0.75
196.70	52.20	60.09	0.87	0.00	90.30	0.00	2.04	5.96	0.34
	48.24	60.09	0.80	0.00	90.30	0.00	0.76	5.96	0.13
180.00	48.24	60.09	0.80	0.00	90.30	0.00	0.87	3.49	0.25
	50.04	60.09	0.83	0.00	90.30	0.00	0.60	3.49	0.17
161.70	50.04	60.09	0.83	0.00	90.30	0.00	0.69	3.49	0.20
	51.10	60.09	0.85	0.00	90.30	0.00	0.79	3.49	0.23
160.00	51.10	90.09	0.57	0.00	90.30	0.00	0.79	3.54	0.22
	63.61	90.09	0.71	0.00	90.30	0.00	1.98	3.54	0.56
140.00	63.61	90.09	0.71	0.00	90.30	0.00	1.98	3.54	0.56
	74.66	90.09	0.83	0.00	90.30	0.00	2.53	3.54	0.71
131.59	74.66	90.09	0.83	0.00	90.30	0.00	2.50	3.54	0.71
	81.99	90.09	0.91	2.54	90.30	0.03	2.85	3.54	0.81
126.70	82.04	90.09	0.91	0.00	90.30	0.00	3.41	3.54	0.96
	77.61	90.09	0.86	0.00	90.30	0.00	3.17	3.54	0.90

123.33	77.61	90.09	0.86	0.00	90.30	0.00	3.19	3.54	0.90
	73.51	90.09	0.82	0.00	90.30	0.00	2.95	3.54	0.83
120.00	73.51	90.09	0.82	0.00	90.30	0.00	2.99	3.54	0.84
	66.22	90.09	0.74	0.00	90.30	0.00	2.53	3.54	0.71
113.33	66.22	90.09	0.74	0.00	90.30	0.00	2.62	3.54	0.74
	61.56	90.09	0.68	0.00	90.30	0.00	1.73	3.54	0.49
100.00	61.56	90.09	0.68	0.00	90.30	0.00	1.73	3.54	0.49
	60.41	90.09	0.67	0.00	90.30	0.00	1.51	3.54	0.43
96.70	60.41	90.09	0.67	0.00	90.30	0.00	1.61	3.54	0.45
	62.64	90.09	0.70	0.00	90.30	0.00	1.10	3.54	0.31
80.00	62.64	90.09	0.70	0.00	90.30	0.00	1.15	3.54	0.32
	63.18	90.09	0.70	0.00	90.30	0.00	1.51	3.54	0.43
70.75	63.18	90.09	0.70	0.00	90.30	0.00	1.53	3.54	0.43
	63.38	90.09	0.70	0.00	90.30	0.00	1.69	3.54	0.48
66.70	65.47	90.09	0.73	0.00	90.30	0.00	2.99	3.54	0.84
	67.21	90.09	0.75	0.00	90.30	0.00	2.56	3.54	0.72
60.00	67.21	90.09	0.75	0.00	90.30	0.00	2.64	3.54	0.75
	70.34	90.09	0.78	0.00	90.30	0.00	1.77	3.54	0.50
43.33	70.34	90.09	0.78	0.00	90.30	0.00	1.79	3.54	0.51
	70.76	90.09	0.79	0.00	90.30	0.00	1.61	3.54	0.46
40.00	70.76	90.09	0.79	0.00	90.30	0.00	1.64	3.54	0.46
	71.37	90.09	0.79	0.00	90.30	0.00	1.34	3.54	0.38
33.35	71.37	90.09	0.79	0.00	90.30	0.00	1.39	3.54	0.39
	71.79	90.09	0.80	0.00	90.30	0.00	1.65	3.54	0.47
23.33	71.79	90.09	0.80	0.00	90.30	0.00	1.67	3.54	0.47
	71.80	90.09	0.80	0.00	90.30	0.00	1.77	3.54	0.50
20.00	71.80	90.09	0.80	0.00	141.37	0.00	1.79	3.54	0.50
	71.58	90.09	0.79	0.00	141.37	0.00	1.88	3.54	0.53
16.67	71.58	90.09	0.79	0.00	141.37	0.00	1.89	3.54	0.53
	71.35	90.09	0.79	0.00	141.37	0.00	1.98	3.54	0.56
13.33	71.35	90.09	0.79	0.00	141.37	0.00	2.00	3.54	0.57
	70.84	90.09	0.79	0.00	141.37	0.00	2.18	3.54	0.62
6.67	71.39	90.09	0.79	0.00	141.37	0.00	2.97	3.54	0.84
	70.84	90.09	0.79	0.00	141.37	0.00	3.06	3.54	0.87
3.33	70.84	90.09	0.79	0.00	141.37	0.00	3.08	3.54	0.87
	70.48	90.09	0.78	0.00	141.37	0.00	3.18	3.54	0.90
0.00									

MAXIMUM MAST DEFORMATION CALCULATED

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MAST ELEV FT	DEFLECTIONS (FT)				ROTATIONS (DEG)			
	HORIZONTAL			DOWN	TILT			TWIST
	NORTH	EAST	TOTAL		NORTH	EAST	TOTAL	
245.0	4.08G	-3.42C	4.08G	0.20S	1.38G	-1.05C	1.38G	1.59H
238.4	3.92G	-3.29C	3.92G	0.20S	1.38G	-1.04C	1.38G	1.59H
231.7	3.76G	-3.17C	3.76G	0.20S	1.33G	-1.00C	1.33G	1.59H
223.3	3.57G	-3.03C	3.57G	0.19S	1.33G	-1.01C	1.33G	1.61H
220.0	3.49G	-2.97C	3.49G	0.19S	1.35G	-1.02C	1.35G	1.62H
214.2	3.35G	2.87J	3.35G	0.19S	1.37G	-1.04C	1.37G	1.64H
210.0	3.25G	2.81J	3.25G	0.18S	1.39G	-1.06C	1.39G	1.64H
203.3	3.09G	2.70J	3.09G	0.18S	1.39G	-1.06C	1.39G	1.65H
196.7	2.93G	2.60J	2.94C	0.17S	1.34G	-1.02C	1.34G	1.65H

180.0	2.56G	2.36J	2.61C	0.16S	1.26G	-0.97C	1.26G	1.70H
161.7	2.16G	2.09J	2.25C	0.14S	1.20G	-0.96C	1.20G	1.69H
140.0	1.73G	1.75J	1.84C	0.12S	1.08G	-0.89C	1.08G	1.62H
131.6	1.57G	1.63J	1.70J	0.12S	0.99G	-0.82C	0.99G	1.57H

126.7	1.49G	1.57J	1.63J	0.11S	0.89G	-0.74C	0.89G	1.54H

123.3	1.44G	1.52J	1.59J	0.11S	0.84G	-0.70C	0.84G	1.53H
120.0	1.39G	1.49J	1.55J	0.11S	0.80G	-0.67C	0.80G	1.51H
113.3	1.30G	1.41J	1.47J	0.10S	0.74G	-0.62C	0.74G	1.48H
96.7	1.11G	1.24J	1.29J	0.09S	0.65G	0.58J	0.66C	1.36H
80.0	0.92G	1.07J	1.11D	0.07S	0.61G	0.61J	0.65C	1.20H
70.8	0.83G	0.97J	1.00D	0.07S	0.59G	0.62J	0.65J	1.10H

66.7	0.78G	0.93J	0.96D	0.06S	0.58G	0.61J	0.65J	1.06H

60.0	0.72G	0.85J	0.88D	0.06S	0.57G	0.63J	0.66D	1.18H
43.3	0.54G	0.66J	0.68D	0.04S	0.62G	-0.72D	0.75D	0.97H
40.0	0.51G	0.62J	0.63D	0.04S	0.63G	-0.74D	0.77D	0.92H
33.3	0.43G	0.53J	0.54D	0.03S	0.67G	0.80J	0.82D	0.82H
23.3	0.31G	0.38J	0.39D	0.02S	0.72G	0.87J	0.89D	0.67H
20.0	0.27G	0.33J	0.34D	0.02S	0.74G	0.89J	0.92D	0.62H
16.7	0.23G	0.28J	0.28D	0.02S	0.75G	0.91J	0.94D	0.56H
13.3	0.18G	0.22J	0.23D	0.01S	0.76G	0.93J	0.95D	0.51H
6.7	0.09G	0.11J	0.12D	0.01S	0.78G	0.96J	0.98D	0.39H
3.3	0.05G	0.06J	0.06D	0.00S	0.79G	0.97J	0.99D	0.20H
0.0	0.00A	0.00A	0.00A	0.00A	0.80G	0.98J	1.00D	0.00A

MAXIMUM ANTENNA ROTATIONS
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ELEV FT	ORIENTATION	 BEAM DEFLECTIONS (DEG)			
	AZI DEG	ELEV DEG	ROLL	YAW	PITCH	TOTAL
240.0	0.0	0.0	1.044 C	1.594 H	-1.379 G	1.908 H
225.0	0.0	0.0	1.006 C	1.611 H	-1.334 G	1.902 H
210.0	0.0	0.0	1.056 C	1.649 H	-1.385 G	1.962 H

MAXIMUM INTERNAL MAST FORCES
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MAST ELEV FT	TOTAL AXIAL KIPSHEAR.....	MOMENT.....		TORSION FT-KIP
		N - S KIP	E - W KIP	N - S FT-KIP	E - W FT-KIP	
245.0	0.00 H	0.00 L	0.00 D	0.00 H	0.00 K	0.00 A
238.4	37.60 S	-7.34 A	7.36 J	12.47 A	-12.50 J	-0.05 B
	37.60 S	-7.34 A	7.36 J	12.47 A	-12.50 J	-0.12 B
	39.16 S	-7.81 A	7.91 J	-62.85 G	-63.28 J	-0.18 B

231.7	* 46.44 G	+ -15.98 G	+ -15.92 J	& 39.04 G	& 39.31 J	@ -1.23 H

223.3	63.06 S	6.66 A	-7.01 J	25.86 A	-24.39 J	0.96 B
	88.87 S	1.05 A	-1.28 J	-19.30 A	-23.35 D	0.86 B
	88.87 S	1.05 A	-1.28 J	-19.30 A	-23.35 D	0.81 B
220.0	89.79 S	0.73 A	-0.91 J	-22.36 A	27.12 J	0.76 B
	89.79 S	0.73 A	-0.91 J	-22.36 A	27.12 J	0.67 B
	91.53 S	0.18 A	-0.27 J	-25.05 A	30.60 J	0.58 B

214.2	91.53 S	0.18 A	-0.27 J	-25.05 A	30.60 J	0.51 B
	92.75 S	0.52 G	-0.36 C	-24.90 A	30.67 J	0.45 B
210.0	116.79 S	5.43 G	-5.11 D	-24.90 A	30.67 J	0.33 B
	118.86 S	6.13 G	-5.95 D	-18.78 G	-12.43 K	0.21 B
203.3	118.86 S	6.13 G	-5.95 D	-18.78 G	-12.43 K	0.09 B
	120.90 S	6.82 G	-6.79 D	-61.82 G	49.58 C	0.08 D
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196.7	* 25.42 C	+ -9.90 G	+ -10.56 J	& 20.92 G	& 22.42 J	@ -0.84 H
	137.25 S	2.82 A	-3.33 J	-40.90 G	-30.93 K	0.52 B
	142.40 S	1.09 A	-1.24 J	-16.54 G	-12.17 D	0.23 B
180.0	142.40 S	1.09 A	-1.24 J	-16.54 G	-12.17 D	0.12 D
	147.93 S	1.02 G	-1.00 D	-20.33 G	-14.17 D	0.42 D
161.7	147.93 S	1.02 G	-1.00 D	-20.33 G	-14.17 D	0.77 H
	154.66 S	3.19 G	-3.60 D	-65.00 G	47.24 C	1.13 H
140.0	154.66 S	3.19 G	-3.60 D	-65.00 G	47.24 C	1.26 H
	157.26 S	3.99 G	-4.58 D	-92.86 G	73.64 C	1.40 H
131.6	157.26 S	3.99 G	-4.58 D	-92.86 G	73.64 C	1.48 H
	158.77 S	4.47 G	-5.15 D	-111.39 G	-94.32 J	1.56 H
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126.7	* 13.77 D	+ -7.78 G	+ 9.46 D	& 10.97 G	& -13.25 D	@ -0.67 D
	170.34 S	-4.12 G	-4.60 J	-100.43 G	-81.08 J	0.96 H
	171.38 S	-3.79 G	-4.21 J	-88.58 G	69.70 C	1.02 H
123.3	171.38 S	-3.79 G	-4.21 J	-88.58 G	69.70 C	1.07 H
	172.41 S	-3.47 G	-3.82 J	-77.59 G	59.32 C	1.13 H
120.0	172.41 S	-3.47 G	-3.82 J	-77.59 G	59.32 C	1.23 H
	174.44 S	-2.85 G	-3.08 J	-57.97 G	40.89 C	1.33 H
113.3	174.44 S	-2.85 G	-3.08 J	-57.97 G	40.89 C	1.59 H
	179.51 S	-1.31 G	-1.22 J	-23.81 G	-11.11 L	1.85 H
96.7	179.51 S	-1.31 G	-1.22 J	-23.81 G	-11.11 L	2.10 H
	184.55 S	-0.44 A	-0.59 D	-12.43 G	-11.09 D	2.35 H
80.0	184.55 S	-0.44 A	-0.59 D	-12.43 G	-11.09 D	2.48 H
	187.29 S	-1.22 A	-1.53 D	-16.09 G	-7.89 L	2.61 H
70.8	187.29 S	-1.22 A	-1.53 D	-16.09 G	-7.89 L	2.66 H
	188.50 S	-1.56 A	-1.94 D	-19.83 G	-10.51 K	2.72 H
<hr/>						
66.7	* 5.81 S	+ 4.41 A	+ 5.54 D	& 3.35 G	& -4.40 D	@ -0.25 D
	194.31 S	-2.79 G	-3.09 J	-16.48 G	-8.18 L	2.59 H
	196.30 S	-2.22 G	-2.40 J	-12.34 A	-19.77 D	2.69 H
60.0	196.30 S	-2.22 G	-2.40 J	-12.35 A	-19.77 D	2.90 H
	201.16 S	-0.91 G	-0.82 J	-38.67 A	51.73 J	3.12 H
43.3	201.16 S	-0.91 G	-0.82 J	-38.67 A	-51.73 D	3.17 H
	202.14 S	-0.64 G	-0.50 J	-41.00 A	54.44 J	3.21 H

40.0	202.14 S	-0.64 G	-0.50 J	-41.00 A	54.44 J	3.29 H
	204.03 S	-0.19 G	-0.10 L	-42.87 A	56.33 J	3.36 H
33.3	204.03 S	-0.19 G	-0.10 L	-42.87 A	56.33 J	3.48 H
	206.88 S	-0.70 A	-0.91 D	-38.89 A	50.58 J	3.60 H
23.3	206.88 S	-0.70 A	-0.92 D	-38.89 A	50.58 J	3.64 H
	207.82 S	-0.94 A	-1.21 D	-35.73 A	46.36 J	3.68 H
20.0	207.82 S	-0.94 A	-1.21 D	-35.73 A	46.36 J	3.72 H
	208.19 S	-1.15 A	-1.45 D	-31.71 A	41.05 J	3.75 H
16.7	208.19 S	-1.15 A	-1.46 D	-31.71 A	41.04 J	3.79 H
	208.66 S	-1.36 A	-1.71 D	-26.91 A	34.75 J	3.82 H
13.3	208.66 S	-1.36 A	-1.71 D	-26.90 A	34.75 J	3.89 H
	209.88 S	-1.78 A	-2.21 D	-14.98 A	19.28 J	3.96 H
6.7	209.88 S	-1.78 A	-2.21 D	-14.98 A	19.28 J	4.00 H
	210.64 S	-1.99 A	-2.46 D	-7.86 A	10.10 J	4.03 H
3.3	210.64 S	-1.99 A	-2.46 D	-7.86 A	10.10 J	4.07 H
	211.45 S	-2.19 A	-2.72 D	0.00 K	0.00 J	4.11 H
base						
reaction	211.45 S	1.40 A	1.30 E	0.00 G	0.00 J	-4.11 H

* VERTICAL GUY LOAD & GUY ECCENTRIC MOMENT
+ HORIZONTAL REACTION @ TORSIONAL RESISTANCE

MAXIMUM GUY FORCES AT MAST
=====

GUY LEVEL FT	GUY AZICOMPONENTS AT MAST.....				EFL/FR * RATIO	...GUY ANGLES...	
		N KIP	E KIP	DOWN KIP	TOTAL KIP		VERT DEG	HORIZ DEG
231.7	0.0	19.1B	-0.2E	26.4B	32.6B	0.9B	-58.4S	12.1H
	120.0	-9.6F	16.6D	27.0D	33.1D	0.9D	-58.7W	-12.0J
	240.0	-9.6H	-16.7J	27.0J	33.1J	0.9J	-58.7O	12.0D
196.7	0.0	12.3B	-0.2E	14.5B	19.0B	0.9B	-54.4S	11.3H
	120.0	-6.3D	11.1D	15.4D	20.0D	1.0D	-54.9W	-11.3J
	240.0	-6.3J	-11.1J	15.4J	20.0J	1.0J	-54.9O	11.3D
126.7	0.0	10.1B	0.1I	7.9B	12.8B	0.8B	-42.5S	10.5H
	120.0	-5.6D	9.8D	9.0D	14.4D	0.9D	-43.3W	-11.0J
	240.0	-5.6J	-9.8J	9.0J	14.4J	0.9J	-43.3O	11.0D
66.7	0.0	5.8B	0.1J	2.5B	6.3B	0.7B	-30.1G	7.8H
	120.0	-3.3D	5.7D	3.0D	7.3D	0.8D	-31.5K	-8.7J
	240.0	-3.3J	-5.7J	3.0J	7.3J	0.8J	-31.5C	8.7D

* EFL/FR = EFFECTS OF FACTORED LOADS DIVIDED BY THE FACTORED RESISTANCE

MAXIMUM GUY FORCES AT ANCHOR
=====

GUY LEVEL FT	GUY AZI	GUY ATT AZICOMPONENTS AT ANCHOR.....				EFL/FR * RATIO
			RAD KIP	LAT KIP	VERT KIP	TOTAL KIP	

231.7	0.0	0.0	19.4B	0.3D	25.9B	32.3B	0.9B
	120.0	120.0	19.5D	-0.3B	26.4D	32.8D	0.9D
	240.0	240.0	19.5J	0.3L	26.4J	32.8J	0.9J
196.7	0.0	0.0	12.4B	0.2D	14.2B	18.9B	0.9B
	120.0	120.0	12.9D	-0.2B	15.1D	19.8D	0.9D
	240.0	240.0	12.9J	0.2L	15.1J	19.8J	0.9J
126.7	0.0	0.0	10.2B	0.1D	7.7B	12.8B	0.8B
	120.0	120.0	11.4D	-0.1B	8.8D	14.4D	0.9D
	240.0	240.0	11.3J	0.1L	8.8J	14.4J	0.9J
66.7	0.0	0.0	5.8B	0.1D	2.4B	6.3B	0.7B
	120.0	120.0	6.7D	-0.1B	2.9D	7.3D	0.8D
	240.0	240.0	6.6J	0.1L	2.9J	7.3J	0.8J

MAXIMUM ANCHOR LOADS

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AZI DEG	RADIUS FT	GUY TO ELEV FTANCHOR LOADS.....		SHAFT FORCES.....			ANGLE DEG
			HORIZ KIP	VERT KIP	LATER- AL KIP	AXIAL KIPLATERAL.... VERT PLANE KIP	HORIZ PLANE KIP	
0.0	175.0	231.7	19.4B	25.9B	0.3D	32.1B	3.8B	0.3D	
		196.7	12.4B	14.2B	0.2D	18.9B	0.8B	0.2D	
		126.7	10.2B	7.7B	0.1D	12.6B	-2.1B	0.1D	
		66.7	5.8B	2.4B	0.1D	5.8B	-2.5B	0.1D	
			47.8B	50.2B	0.7D	69.3B	0.0L	0.7D	46.4B
120.0	175.0	231.7	19.5D	26.4D	-0.3B	32.6D	4.0D	-0.3B	
		196.7	12.9D	15.1D	-0.2B	19.8D	1.0D	-0.2B	
		126.7	11.4D	8.8D	-0.1B	14.2D	-2.2D	-0.1B	
		66.7	6.7D	2.9D	-0.1B	6.7D	-2.8D	-0.1B	
			50.4D	53.2D	-0.7B	73.3D	0.0F	-0.7B	46.6D
240.0	175.0	231.7	19.5J	26.4J	0.3L	32.6J	4.0J	0.3L	
		196.7	12.9J	15.1J	0.2L	19.8J	1.0J	0.2L	
		126.7	11.3J	8.8J	0.1L	14.2J	-2.2J	0.1L	
		66.7	6.6J	2.9J	0.1L	6.7J	-2.8J	0.1L	
			50.4J	53.2J	0.7L	73.3J	0.0H	0.7L	46.6J

MAXIMUM LOADS ON TOWER PIER

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AXIAL kipSHEAR.....		TOTAL kipMOMENT.....			
	NORTH kip	EAST kip		NORTH ft-kip	EAST ft-kip	TOTAL ft-kip	TORSIONAL ft-kip
211.4492	1.3992	1.3015	1.5002	0.0001	0.0001	0.0001	-4.1070
S	A	E	E	G	J	J	H

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245' 3600SRWD / CK Bonnieville, KY

 ***** Service Load Condition *****

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* 12 wind directions were analyzed. Only 1 condition(s) shown in full

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LOADING CONDITION A

60 mph wind with no ice. Wind Azimuth: 0°

MAST LOADING

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LOAD TYPE	ELEV FT	FORCES (KIP & KIP/FT)			MOMENTS (FT.K & FT.K/FT)			ANT-ORIENT	
		N	E	DOWN	N	E	TORSION	AZI DEG	VERT DEG
C	240.0	-2.307	0.000	12.000	0.00	0.00	0.00	0.0	0.00
C	225.0	-1.626	0.000	8.000	0.00	0.00	0.00	0.0	0.00
C	210.0	-1.602	0.000	8.000	0.00	0.00	0.00	0.0	0.00
D	245.0	-0.010	0.000	0.048	0.00	0.00	0.00		
D	240.0	-0.011	0.000	0.057	0.00	0.00	0.00		
D	240.0	-0.023	0.000	0.068	0.00	0.00	0.00		
D	226.7	-0.023	0.000	0.068	0.00	0.00	0.00		
D	226.7	-0.028	0.000	0.076	0.00	0.00	0.00		
D	210.0	-0.032	0.000	0.082	0.00	0.00	0.00		
D	210.0	-0.034	0.000	0.093	0.00	0.01	0.00		
D	200.0	-0.034	0.000	0.093	0.00	0.01	0.00		
D	200.0	-0.034	0.000	0.093	0.00	0.01	0.00		
D	183.3	-0.034	0.000	0.093	0.00	0.01	0.00		
D	183.3	-0.034	0.000	0.092	0.00	0.01	0.00		
D	163.3	-0.032	0.000	0.090	0.00	0.01	0.00		
D	163.3	-0.033	0.000	0.093	0.00	0.01	0.00		
D	140.0	-0.032	0.000	0.101	0.00	0.01	0.00		
D	140.0	-0.031	0.000	0.098	0.00	0.01	0.00		
D	130.0	-0.032	0.000	0.098	0.00	0.01	0.00		
D	130.0	-0.032	0.000	0.098	0.00	0.01	0.00		
D	120.0	-0.032	0.000	0.098	0.00	0.01	0.00		
D	120.0	-0.030	0.000	0.098	0.00	0.01	0.00		
D	100.0	-0.031	0.000	0.098	0.00	0.01	0.00		
D	100.0	-0.029	0.000	0.098	0.00	0.01	0.00		
D	80.0	-0.030	0.000	0.098	0.00	0.01	0.00		
D	80.0	-0.027	0.000	0.098	0.00	0.01	0.00		
D	60.0	-0.028	0.000	0.098	0.00	0.01	0.00		
D	60.0	-0.025	0.000	0.098	0.00	0.01	0.00		
D	40.0	-0.026	0.000	0.098	0.00	0.01	0.00		
D	40.0	-0.022	0.000	0.098	0.00	0.01	0.00		
D	23.3	-0.023	0.000	0.098	0.00	0.01	0.00		
D	23.3	-0.023	0.000	0.098	0.00	0.01	0.00		
D	6.7	-0.020	0.000	0.098	0.00	0.01	0.00		
D	6.7	-0.021	0.000	0.098	0.00	0.01	0.00		
D	0.0	-0.020	0.000	0.096	0.00	0.01	0.00		

GUY LOADING

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.. WIND LOADING ..		TEMP	.ICE LOAD..		CONV	PROFILES.	.LOAD FACTORS.			
AZI	SPEED	REF	CHANGE	RAD	DENS	TOL	CAB	WIND	WIND DEAD	ICE
DEG	MPH	PRESS	DEG	IN	PCF					
0.0	60.0	0.00	0.00	0.00	56.00	0.0100	1	4	1.00	1.00

CABLE PROFILE: 1 - CATENARY 2 - PARABOLIC

WIND PROFILE: 1 - EIA 222 default
 2 - Constant Kz=1, Kiz=1
 3 - Step function for Kz, Kiz
 (requires definition of Exposure Factor Kz, Kiz table)
 4 - Special Factors
 5 - Site specific wind formula, Kiz as EIA 222 default

(requires definition of Exposure Factor Qh formula table)

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MAXIMUM LEG LOADS AND FACE SHEARS (KIP - stress in KSI)

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MAST ELEV FT	MAX LEG LOADS					MAX FACE SHEARS		
	AXIAL	BENDING		TOTAL		TORSN	BEAM	TOTAL
		TENS	COMP	TENS	COMP			
245.00	0.0C	0.0E	0.0G	0.0E	0.0I	0.0A	0.0E	0.0E
238.35	4.1K	1.6I	1.6K	0.0A	5.7K	0.0B	-1.6J	1.6J
231.70	4.1K	1.6I	1.6K	0.0A	5.7K	0.0B	-1.6J	1.6J
	4.3K	7.9I	7.9C	3.7I	12.2C	0.0B	-1.7J	1.7J
	9.7C	3.3A	3.2K	0.0A	12.9C	-0.1B	1.5J	1.5J
223.34	12.6C	2.5C	2.6I	0.0A	14.9D	0.0B	0.3J	0.2J
	12.6C	2.5C	2.6I	0.0A	14.9D	0.0B	0.3J	0.2J
220.00	12.6C	2.9J	3.0I	0.0A	15.4D	0.0B	0.2J	0.2J
	12.6C	2.9J	3.0I	0.0A	15.4D	0.0B	0.2J	0.2J
214.20	12.8C	3.3J	3.4I	0.0A	16.0D	0.0B	0.1J	0.1J
	12.8C	3.3J	3.4I	0.0A	16.0D	0.0B	0.1J	0.1J
210.00	12.9C	3.3J	3.4I	0.0A	16.1D	0.0D	-0.1G	0.1G
	15.6C	3.3J	3.4I	0.0A	18.8D	0.0D	1.1H	1.1B
196.70	16.0C	6.6A	7.3G	0.0A	23.3G	-0.1D	1.5D	1.4D
	19.0C	4.0A	4.7G	0.0A	23.7G	0.0D	0.8J	0.8J
183.34	19.4C	1.1D	1.1D	0.0A	20.5G	-0.1D	0.4J	0.5J
	19.4C	1.1D	1.1D	0.0A	20.5G	-0.1H	0.4J	0.5J
180.00	19.5C	1.7D	1.7D	0.0A	21.1D	-0.1H	0.3J	0.4J
	19.5C	1.7D	1.7D	0.0A	21.1D	-0.1H	0.3J	0.4J
161.70	20.1C	2.2D	2.3D	0.0A	22.2D	-0.2H	0.2D	0.2D
	20.1C	2.2D	2.3D	0.0A	22.2D	-0.2H	0.2D	0.3H
140.00	20.8C	4.0A	4.9G	0.0A	25.7G	-0.2H	0.8D	0.6E
	20.8C	4.0A	4.9G	0.0A	25.7G	-0.3H	0.8D	0.6D
126.70	21.2C	10.0I	10.7G	0.0A	31.9G	-0.3H	1.1D	0.9E
	23.1C	8.5I	9.3G	0.0A	32.3G	-0.3H	0.9J	1.2J
120.00	23.3C	5.6A	6.4G	0.0A	29.7G	-0.3H	0.8J	1.0J
	23.3C	5.6A	6.4G	0.0A	29.7G	-0.3H	0.8J	1.1J
96.70	24.1C	0.9D	1.1D	0.0A	25.0D	-0.4H	-0.2H	0.6H
	24.1C	0.9D	1.1D	0.0A	25.0D	-0.4H	-0.2H	0.6H
80.00	24.6C	1.0D	1.2D	0.0A	25.6D	-0.4H	0.2D	0.5D
	24.6C	1.0D	1.2D	0.0A	25.6D	-0.4H	0.2D	0.5D
71.58	24.9C	0.4G	0.8G	0.0A	25.6G	-0.5H	0.4D	0.6D
	24.9C	0.4G	0.8G	0.0A	25.6G	-0.5H	0.4D	0.6D
	25.1C	1.1A	1.6G	0.0A	26.6G	-0.5H	0.5D	0.7D

66.70	=====	=====	=====	=====	=====	=====	=====	=====
	25.8C	0.7A	1.2G	0.0A	26.8G	-0.5H	0.7J	1.1J
	26.0C	1.5J	1.7I	0.0A	27.5D	-0.5H	0.5J	1.0J
60.00	-----	-----	-----	-----	-----	-----	-----	-----
	26.0C	1.5J	1.7I	0.0A	27.5D	-0.5H	0.5J	1.0J
	26.6C	5.2C	5.4I	0.0A	31.7D	-0.5H	0.1J	0.7H
40.00	-----	-----	-----	-----	-----	-----	-----	-----
	26.6C	5.2C	5.4I	0.0A	31.7D	-0.6H	0.1J	0.7H
	26.8C	5.5C	5.6I	0.0A	32.1D	-0.6H	0.0G	0.6H
33.35	-----	-----	-----	-----	-----	-----	-----	-----
	26.8C	5.5C	5.6I	0.0A	32.1D	-0.6H	0.0G	0.6H
	27.2C	5.0C	5.1I	0.0A	31.9D	-0.6H	0.2D	0.7B
23.33	-----	-----	-----	-----	-----	-----	-----	-----
	27.2C	5.0C	5.1I	0.0A	31.9D	-0.6H	0.2D	0.7B
	27.7C	1.9C	2.0I	0.0A	29.5J	-0.6H	0.5D	0.9B
6.67	-----	-----	-----	-----	-----	-----	-----	-----
	27.7C	2.9C	3.0I	0.0A	30.4J	-1.0H	0.5D	1.2H
	27.9C	0.0E	0.0B	0.0A	27.9C	-1.0H	0.6D	1.2H
0.00	-----	-----	-----	-----	-----	-----	-----	-----

FORCE/RESISTANCE RATIO

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MAST ELEV ft	- LEG COMPRESSION -			--- LEG TENSION ---			---- FACE SHEAR ----		
	MAX COMP	COMP RESIST	FORCE/ RESIST RATIO	MAX TENS	TENS RESIST	FORCE/ RESIST RATIO	MAX FACE SHEAR	FACE SHEAR RESIST	FORCE/ RESIST RATIO
245.00	-----	-----	-----	-----	-----	-----	-----	-----	-----
	0.00	60.09	0.00	0.00	90.30	0.00	0.00	5.96	0.00
	5.69	60.09	0.09	0.00	90.30	0.00	1.60	5.96	0.27
238.35	-----	-----	-----	-----	-----	-----	-----	-----	-----
	5.69	60.09	0.09	0.00	90.30	0.00	1.59	5.96	0.27
	12.19	60.09	0.20	3.66	90.30	0.04	1.70	5.96	0.29
231.70	-----	-----	-----	-----	-----	-----	-----	-----	-----
	12.93	60.09	0.22	0.00	90.30	0.00	1.47	5.96	0.25
	14.54	60.09	0.24	0.00	90.30	0.00	0.48	5.96	0.08
225.00	-----	-----	-----	-----	-----	-----	-----	-----	-----
	14.54	60.09	0.24	0.00	90.30	0.00	0.48	3.49	0.14
	14.93	60.09	0.25	0.00	90.30	0.00	0.24	3.49	0.07
223.34	-----	-----	-----	-----	-----	-----	-----	-----	-----
	14.93	60.09	0.25	0.00	90.30	0.00	0.24	3.49	0.07
	15.44	60.09	0.26	0.00	90.30	0.00	0.17	3.49	0.05
220.00	-----	-----	-----	-----	-----	-----	-----	-----	-----
	15.44	60.09	0.26	0.00	90.30	0.00	0.19	5.96	0.03
	16.00	60.09	0.27	0.00	90.30	0.00	0.06	5.96	0.01
214.20	-----	-----	-----	-----	-----	-----	-----	-----	-----
	16.00	60.09	0.27	0.00	90.30	0.00	0.07	5.96	0.01
	16.14	60.09	0.27	0.00	90.30	0.00	0.07	5.96	0.01
210.00	-----	-----	-----	-----	-----	-----	-----	-----	-----
	18.81	60.09	0.31	0.00	90.30	0.00	1.09	5.96	0.18
	22.20	60.09	0.37	0.00	90.30	0.00	1.33	5.96	0.22
200.00	-----	-----	-----	-----	-----	-----	-----	-----	-----
	22.20	60.09	0.37	0.00	90.30	0.00	1.33	5.96	0.22
	23.32	60.09	0.39	0.00	90.30	0.00	1.41	5.96	0.24
196.70	-----	-----	-----	-----	-----	-----	-----	-----	-----
	23.68	60.09	0.39	0.00	90.30	0.00	0.79	5.96	0.13
	20.51	60.09	0.34	0.00	90.30	0.00	0.45	5.96	0.08
183.34	-----	-----	-----	-----	-----	-----	-----	-----	-----
	20.51	60.09	0.34	0.00	90.30	0.00	0.46	5.96	0.08
	21.12	60.09	0.35	0.00	90.30	0.00	0.38	5.96	0.06
180.00	-----	-----	-----	-----	-----	-----	-----	-----	-----
	21.12	60.09	0.35	0.00	90.30	0.00	0.41	3.49	0.12
	22.23	60.09	0.37	0.00	90.30	0.00	0.24	3.49	0.07
161.70	-----	-----	-----	-----	-----	-----	-----	-----	-----
	22.23	60.09	0.37	0.00	90.30	0.00	0.28	3.49	0.08
	22.50	60.09	0.37	0.00	90.30	0.00	0.31	3.49	0.09
160.00	-----	-----	-----	-----	-----	-----	-----	-----	-----
	22.50	90.09	0.25	0.00	90.30	0.00	0.31	3.54	0.09
	25.71	90.09	0.29	0.00	90.30	0.00	0.61	3.54	0.17
140.00	-----	-----	-----	-----	-----	-----	-----	-----	-----
	25.71	90.09	0.29	0.00	90.30	0.00	0.64	3.54	0.18
	31.86	90.09	0.35	0.00	90.30	0.00	0.88	3.54	0.25
126.70	-----	-----	-----	-----	-----	-----	-----	-----	-----
	32.30	90.09	0.36	0.00	90.30	0.00	1.20	3.54	0.34

120.00	29.69	90.09	0.33	0.00	90.30	0.00	1.04	3.54	0.29
	29.69	90.09	0.33	0.00	90.30	0.00	1.08	3.54	0.31
100.00	25.63	90.09	0.28	0.00	90.30	0.00	0.65	3.54	0.18
	25.63	90.09	0.28	0.00	90.30	0.00	0.65	3.54	0.18
96.70	24.97	90.09	0.28	0.00	90.30	0.00	0.58	3.54	0.16
	24.97	90.09	0.28	0.00	90.30	0.00	0.61	3.54	0.17
80.00	25.64	90.09	0.28	0.00	90.30	0.00	0.50	3.54	0.14
	25.64	90.09	0.28	0.00	90.30	0.00	0.52	3.54	0.15
71.58	25.60	90.09	0.28	0.00	90.30	0.00	0.62	3.54	0.18
	25.60	90.09	0.28	0.00	90.30	0.00	0.63	3.54	0.18
66.70	26.61	90.09	0.30	0.00	90.30	0.00	0.70	3.54	0.20
	26.84	90.09	0.30	0.00	90.30	0.00	1.13	3.54	0.32
60.00	27.45	90.09	0.30	0.00	90.30	0.00	1.00	3.54	0.28
	27.45	90.09	0.30	0.00	90.30	0.00	1.03	3.54	0.29
40.00	31.69	90.09	0.35	0.00	90.30	0.00	0.67	3.54	0.19
	31.69	90.09	0.35	0.00	90.30	0.00	0.68	3.54	0.19
33.35	32.13	90.09	0.36	0.00	90.30	0.00	0.58	3.54	0.16
	32.13	90.09	0.36	0.00	90.30	0.00	0.59	3.54	0.17
23.33	31.94	90.09	0.35	0.00	90.30	0.00	0.68	3.54	0.19
	31.94	90.09	0.35	0.00	90.30	0.00	0.70	3.54	0.20
20.00	31.44	90.09	0.35	0.00	90.30	0.00	0.73	3.54	0.21
	31.44	90.09	0.35	0.00	141.37	0.00	0.73	3.54	0.21
6.67	29.46	90.09	0.33	0.00	141.37	0.00	0.85	3.54	0.24
	30.41	90.09	0.34	0.00	141.37	0.00	1.19	3.54	0.33
0.00	27.94	90.09	0.31	0.00	141.37	0.00	1.25	3.54	0.35

MAXIMUM MAST DEFORMATION CALCULATED

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MAST ELEV FT	DEFLECTIONS (FT)				ROTATIONS (DEG)			
	HORIZONTAL			DOWN	TILT			TWIST
	NORTH	EAST	TOTAL		NORTH	EAST	TOTAL	
245.0	0.68G	0.62J	0.68G	0.03C	0.23G	-0.17C	0.23G	0.82H
238.4	0.66G	0.61J	0.66G	0.03C	0.23G	-0.17C	0.23G	0.82H
231.7	0.63G	0.59J	0.63G	0.03C	0.21G	-0.16C	0.21G	0.82H
223.3	0.60G	0.57J	0.60G	0.03C	0.21G	-0.16C	0.21G	0.83H
220.0	0.59G	0.56J	0.59G	0.03C	0.22G	-0.16C	0.22G	0.83H
214.2	0.57G	0.55J	0.57G	0.03C	0.23G	-0.17C	0.23G	0.83H
210.0	0.55G	0.54J	0.56G	0.03C	0.23G	-0.17C	0.23G	0.83H
196.7	0.50G	0.50J	0.51G	0.03C	0.22G	-0.17C	0.22G	0.83H
183.3	0.45G	0.46J	0.47J	0.03C	0.20G	-0.15C	0.20G	0.83H
180.0	0.44G	0.46J	0.46J	0.03C	0.20G	-0.15C	0.20G	0.83H
161.7	0.37G	-0.41D	0.41D	0.02C	0.20G	0.17J	0.20G	0.80H
140.0	0.30G	-0.34D	0.34D	0.02C	0.18G	0.17J	0.18G	0.75H
126.7	0.26G	-0.30D	0.30D	0.02C	0.14G	0.13J	0.14G	0.71H
120.0	0.24G	-0.29D	0.29D	0.02C	0.12G	0.12J	0.12G	0.69H
96.7	0.20G	-0.25D	0.25D	0.01C	0.10G	-0.10D	0.10D	0.61H
80.0	0.17G	-0.21D	0.21D	0.01C	0.10G	-0.11D	0.11D	0.53H
71.6	0.16G	-0.20D	0.20D	0.01C	0.10G	-0.11D	0.11D	0.49H
66.7	0.15G	-0.19D	0.19D	0.01C	0.09G	-0.11D	0.11D	0.46H

60.0	0.14G	-0.17D	0.18D	0.01C	0.09G	-0.12D	0.12D	0.51H
40.0	0.10G	-0.13D	0.13D	0.01C	0.12G	-0.15D	0.15D	0.39H
33.3	0.09G	-0.11D	0.11D	0.01C	0.13G	-0.16D	0.16D	0.35H
23.3	0.07G	-0.08D	0.08D	0.00C	0.15G	-0.18D	0.18D	0.28H
6.7	0.02G	-0.02D	0.02D	0.00C	0.17G	-0.21D	0.21D	0.16H
0.0	0.00A	0.00A	0.00A	0.00A	0.17G	-0.21D	0.21D	0.00A

MAXIMUM ANTENNA ROTATIONS

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ELEV FT	ORIENTATION	 BEAM DEFLECTIONS (DEG)			
	AZI DEG	ELEV DEG	ROLL	YAW	PITCH	TOTAL
240.0	0.0	0.0	0.171 C	0.822 H	-0.230 G	0.840 H
225.0	0.0	0.0	0.158 C	0.825 H	-0.215 G	0.840 H
210.0	0.0	0.0	0.175 C	0.829 H	-0.232 G	0.847 H

MAXIMUM INTERNAL MAST FORCES

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MAST ELEV FT	TOTAL AXIAL KIPSHEAR.....	MOMENT.....		TORSION FT-KIP
		N - S KIP	E - W KIP	N - S FT-KIP	E - W FT-KIP	
245.0	0.00 C	0.00 G	0.00 E	0.00 G	0.00 E	0.00 A
238.4	12.38 K	-2.40 A	2.40 J	4.07 A	-4.08 J	-0.02 B
	12.38 K	2.40 G	2.40 J	4.07 A	-4.08 J	-0.04 B
	12.83 K	2.55 G	2.58 J	-20.53 G	-20.68 J	-0.06 B
231.7	* 16.26 C	+ 4.87 A	+ -5.00 J	& 12.29 G	& 12.69 J	@ -0.25 H
	29.09 C	2.18 A	-2.30 J	8.50 A	-8.12 J	0.16 B
223.3	37.69 C	0.35 A	-0.43 J	-6.27 A	-7.48 D	0.13 B
	37.69 C	0.35 A	-0.43 J	-6.27 A	-7.48 D	0.11 B
220.0	37.95 C	0.25 A	-0.31 J	-7.29 A	-8.73 D	0.10 B
	37.95 C	0.25 A	-0.31 J	-7.29 A	-8.73 D	0.07 B
214.2	38.41 C	0.07 A	-0.11 J	-8.23 A	-9.93 D	0.04 B
	38.41 C	0.07 A	-0.11 J	-8.23 A	-9.93 D	0.02 B
210.0	38.75 C	0.12 G	-0.09 C	-8.23 A	-10.02 D	0.02 D
	46.75 C	1.72 G	-1.66 D	-8.23 A	-10.02 D	0.09 D
	47.98 C	2.18 G	-2.21 D	-19.03 G	-15.80 J	0.16 D
196.7	* 9.11 C	+ -3.15 G	+ -3.38 J	& 6.85 G	& 7.33 J	@ -0.17 H
	57.09 C	0.95 A	-1.14 J	-12.18 G	-9.31 K	0.08 D
183.3	58.33 C	0.49 A	-0.59 J	-2.85 G	-3.32 D	0.15 D
	58.33 C	0.49 A	-0.59 J	-2.85 G	-3.32 D	0.17 H
180.0	58.64 C	0.38 A	-0.46 J	-1.78 B	-5.11 D	0.19 H
	58.64 C	0.38 A	-0.46 J	-1.78 B	-5.11 D	0.29 H
161.7	60.31 C	0.23 G	-0.28 D	-3.15 B	-6.76 D	0.39 H
	60.31 C	0.23 G	-0.28 D	-3.15 B	-6.76 D	0.51 H

140.0	62.42 C	0.93 G	-1.13 D	-12.84 G	9.41 C	0.63 H
	62.42 C	0.93 G	-1.13 D	-12.84 G	9.41 C	0.70 H
	63.72 C	1.35 G	-1.63 D	-27.67 G	-27.12 J	0.77 H
126.7	* 5.60 J	+ 2.51 A	+ -3.00 J	& 3.60 G	& -4.26 D	@ -0.13 H
	69.31 C	-1.24 G	-1.42 J	-24.07 G	-22.86 J	0.68 H
	69.97 C	-1.03 G	-1.17 J	-16.72 G	-14.35 J	0.72 H
120.0	69.97 C	-1.03 G	-1.17 J	-16.72 G	-14.35 J	0.83 H
	72.26 C	-0.32 G	-0.32 J	-1.19 B	-2.93 D	0.95 H
	72.26 C	-0.32 G	-0.32 J	-1.19 B	-2.93 D	1.03 H
96.7	73.90 C	-0.19 B	-0.28 D	-1.96 B	-3.28 D	1.11 H
	73.90 C	-0.19 B	-0.28 D	-1.96 B	-3.28 D	1.15 H
	74.72 C	-0.42 A	-0.56 D	-1.98 G	1.06 B	1.19 H
80.0	74.72 C	-0.42 A	-0.56 D	-1.98 G	1.06 B	1.21 H
	75.20 C	-0.55 A	-0.72 D	-4.19 G	-3.39 J	1.24 H
	75.20 C	-0.55 A	-0.72 D	-4.19 G	-3.39 J	1.24 H
66.7	* 2.08 D	+ 1.46 A	+ 1.82 D	& 1.19 G	& -1.45 D	@ -0.05 H
	77.27 C	-0.88 G	-1.03 J	-3.01 G	2.04 C	1.22 H
	77.93 C	-0.69 G	-0.81 J	-3.61 A	-4.66 D	1.25 H
60.0	77.93 C	-0.69 G	-0.81 J	-3.61 A	-4.66 D	1.34 H
	79.89 C	-0.17 G	-0.19 J	-12.65 A	-15.48 D	1.42 H
	79.89 C	-0.17 G	-0.19 J	-12.65 A	-15.48 D	1.45 H
40.0	80.54 C	-0.03 G	-0.02 L	-13.25 A	-16.18 D	1.47 H
	80.54 C	-0.03 G	-0.02 L	-13.25 A	-16.18 D	1.51 H
	81.52 C	-0.23 A	-0.28 D	-12.05 A	-14.68 D	1.55 H
23.3	81.52 C	-0.23 A	-0.28 D	-12.05 A	-14.68 D	1.61 H
	83.16 C	-0.58 A	-0.70 D	-4.68 A	-5.68 D	1.67 H
	83.16 C	-0.58 A	-0.70 D	-4.68 A	-5.68 D	1.69 H
6.7	83.81 C	-0.71 A	-0.87 D	0.00 B	0.00 E	1.72 H
	83.81 C	-0.71 A	-0.87 D	0.00 B	0.00 E	1.72 H
	83.81 C	-0.71 A	-0.87 D	0.00 B	0.00 E	1.72 H
base	83.81 C	0.57 A	0.66 D	0.00 A	0.00 J	-1.72 H
reaction	83.81 C	0.57 A	0.66 D	0.00 A	0.00 J	-1.72 H

* VERTICAL GUY LOAD & GUY ECCENTRIC MOMENT
+ HORIZONTAL REACTION @ TORSIONAL RESISTANCE

MAXIMUM GUY FORCES AT MAST
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GUY LEVEL FT	GUY AZICOMPONENTS AT MAST.....				EFL/FR * RATIO	...GUY ANGLES...	
		N KIP	E KIP	DOWN KIP	TOTAL KIP		VERT DEG	HORIZ DEG
231.7	0.0	6.9A	-0.1D	9.7A	11.9A	0.3A	-57.0G	3.2H
	120.0	-3.4E	5.9E	9.8E	11.9E	0.3E	-57.3K	-3.4J
	240.0	-3.4I	-5.9I	9.8I	11.9I	0.3I	-57.4C	3.4D

196.7	0.0	4.5A	0.1J	5.4A	7.0A	0.3A	-52.4G	3.1H
	120.0	-2.3E	3.9E	5.5E	7.1E	0.3E	-52.9K	-3.4J
	240.0	-2.3I	-3.9I	5.6I	7.2I	0.3I	-53.0C	3.4D
126.7	0.0	3.9A	0.0D	3.1A	4.9A	0.3A	-40.2G	1.5I
	120.0	-2.0D	3.5D	3.3D	5.2D	0.3D	-41.2K	-1.7J
	240.0	-2.0J	-3.5J	3.3J	5.2J	0.3J	-41.2C	1.7D
66.7	0.0	2.5A	0.0J	1.1A	2.7A	0.3A	-25.1G	1.1I
	120.0	-1.3D	2.2D	1.2D	2.8D	0.3D	-26.4K	-1.1I
	240.0	-1.3J	-2.2J	1.2J	2.8J	0.3J	-26.5C	1.1E

* EFL/FR = EFFECTS OF FACTORED LOADS DIVIDED BY THE FACTORED RESISTANCE

MAXIMUM GUY FORCES AT ANCHOR

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GUY LEVEL	GUY AZI	GUY ATT AZICOMPONENTS AT ANCHOR.....				EFL/FR *
FT			RAD KIP	LAT KIP	VERT KIP	TOTAL KIP	RATIO
231.7	0.0	0.0	7.0A	0.1D	9.3A	11.6A	0.3A
	120.0	120.0	6.9E	0.1H	9.3E	11.6E	0.3E
	240.0	240.0	6.9I	-0.1F	9.4I	11.7I	0.3I
196.7	0.0	0.0	4.5A	0.1D	5.2A	6.9A	0.3A
	120.0	120.0	4.6E	-0.1B	5.3E	7.0E	0.3E
	240.0	240.0	4.6I	0.1L	5.3I	7.0I	0.3I
126.7	0.0	0.0	3.9A	0.0D	2.9A	4.9A	0.3A
	120.0	120.0	4.1D	0.0B	3.2D	5.2D	0.3D
	240.0	240.0	4.1J	0.0L	3.2J	5.2J	0.3J
66.7	0.0	0.0	2.5A	0.0D	1.0A	2.7A	0.3A
	120.0	120.0	2.6D	0.0B	1.1D	2.8D	0.3D
	240.0	240.0	2.6J	0.0L	1.1J	2.8J	0.3J

MAXIMUM ANCHOR LOADS

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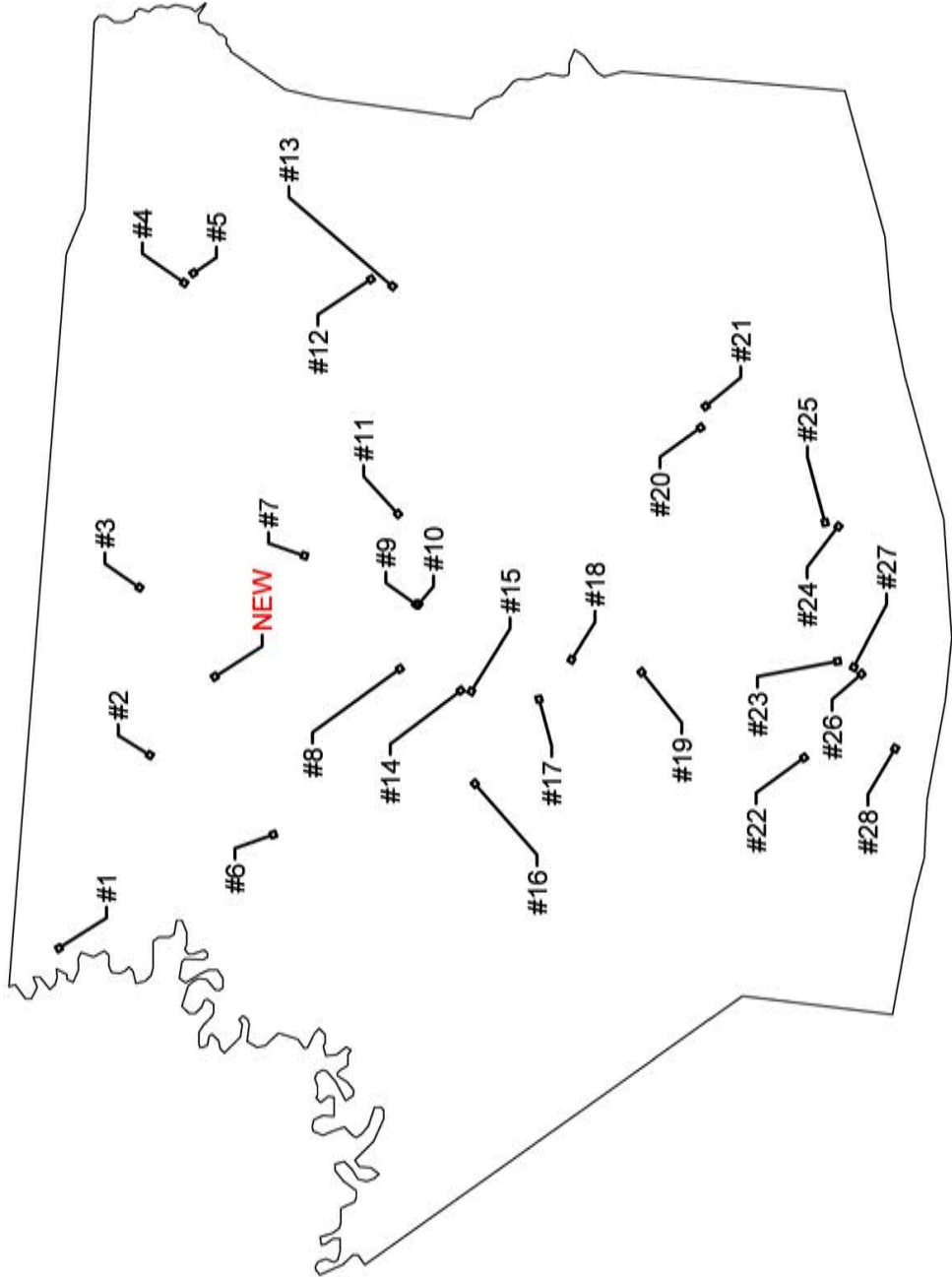
AZI DEG	RADIUS FT	GUY TO ELEV FTANCHOR LOADS.....		SHAFT FORCES.....			ANGLE DEG
			HORIZ KIP	VERT KIP	LATER- AL KIP	AXIAL KIP	...LATERAL... VERT PLANE KIP	HORIZ PLANE KIP	
0.0	175.0	231.7	7.0A	9.3A	0.1D	11.5A	1.5A	0.1D	
		196.7	4.5A	5.2A	0.1D	6.9A	0.3B	0.1D	
		126.7	3.9A	2.9A	0.0D	4.8A	-0.8A	0.0D	
		66.7	2.5A	1.0A	0.0D	2.4A	-1.1A	0.0D	
			17.8A	18.4A	0.2D	25.6A	0.0B	0.2D	45.8A
120.0	175.0	231.7	6.9E	9.3E	0.1H	11.5E	1.5E	0.1H	
		196.7	4.6E	5.3E	-0.1B	7.0E	0.4D	-0.1B	
		126.7	4.1D	3.2D	0.0B	5.1D	-0.8E	0.0B	
		66.7	2.6D	1.1D	0.0B	2.6D	-1.1D	0.0B	
			18.1E	18.9E	-0.2B	26.2E	0.0G	-0.2B	46.3E
240.0	175.0	231.7	6.9I	9.4I	-0.1F	11.6I	1.5I	-0.1F	
		196.7	4.6I	5.3I	0.1L	7.0I	0.4J	0.1L	
		126.7	4.1J	3.2J	0.0L	5.1J	-0.8I	0.0L	
		66.7	2.6J	1.1J	0.0L	2.6J	-1.1J	0.0L	
			18.1I	19.0I	0.2L	26.2I	0.0K	0.2L	46.3I

MAXIMUM LOADS ON TOWER PIER

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AXIAL	SHEAR			MOMENT			
kip	NORTH kip	EAST kip	TOTAL kip	NORTH ft-kip	EAST ft-kip	TOTAL ft-kip	TORSIONAL ft-kip
83.8077	0.5684	0.6650	0.6653	0.0000	0.0000	0.0000	-1.7163
C	A	D	D	A	J	I	H

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HART COUNTY

FCC REGISTERED TOWERS				
TOWER	TOWER OWNER	ASR	LATITUDE	LONGITUDE
1	FM 90.1, INC	1052138	37°25'58.0"N	86°01'49.0"W
2	AMERICAN TOWERS LLC	1042714	37°24'08.1"N	85°57'15.4"W
3	CROWN COMMUNICATIONS LLC	1211618	37°24'36.0"N	85°53'10.8"W
4	TILLMAN INFRASTRUCTURE, LLC	1315877	37°23'28.3"N	85°45'54.6"W
5	CELLCO PARTNERSHIP	1263443	37°23'18.7"N	85°45'39.7"W
6	CELLCO PARTNERSHIP	1279268	37°21'53.4"N	85°59'06.7"W
7	CROWN COMMUNICATION LLC	1220496	37°21'17.2"N	85°52'24.7"W
8	VB ACQUISITIONS LLC	1043058	37°19'27.0"N	85°55'08.0"W
9	HART, COUNTY OF	1287016	37°19'09.0"N	85°53'34.1"W
10	CROWN CASTLE TOWERS 06-2 LLC	1057213	37°19'07.8"N	85°53'34.7"W
11	CELLCO PARTNERSHIP	1263442	37°19'28.6"N	85°51'23.6"W
12	TILLMAN INFRASTRUCTURE, LLC	1317485	37°19'59.5"N	85°45'45.5"W
13	CELLCO PARTNERSHIP	1257254	37°19'35.7"N	85°45'55.6"W
14	CROWN COMMUNICATIONS LLC	1200030	37°18'17.2"N	85°55'38.3"W
15	GLOBAL TOWER, LLC. THROUGH AMERICAN TOWERS, LLC	1042214	37°18'06.0"N	85°55'41.0"W
16	US ARMY CORPS OF ENGINEERS	1289508	37°18'03.9"N	85°57'51.6"W
17	CTI TOWERS ASSETS II, LLC	1309549	37°16'46.1"N	85°55'51.6"W
18	HART COUNTY COMMUNICATIONS	1044066	37°16'09.0"N	85°54'56.0"W
19	CROWN COMMUNICATIONS LLC	1211619	37°14'49.4"N	85°55'13.3"W
20	CITYSWITCH II, LLC	1317522	37°13'41.8"N	85°49'21.1"W
21	CELLCO PARTNERSHIP	1257256	37°13'36.2"N	85°48'48.7"W
22	CROWN COMMUNICATION LLC	1224165	37°11'43.1"N	85°57'15.1"W
23	AMERICAN TOWERS LLC	1044398	37°11'01.2"N	85°54'53.6"W
24	AMERICAN TOWERS LLC	1052937	37°11'04.8"N	85°51'44.3"W
25	EAST KENTUCKY POWER COOPERATIVE, INC	1044509	37°11'09.0"N	85°51'37.0"W
26	KENTUCKY, COMMONWEALTH OF DBA	1044830	37°10'35.2"N	85°55'34.7"W
27	CELLCO PARTNERSHIP	1267522	37°10'38.0"N	85°55'14.4"W
28	T-MOBILE USA TOWER LLC	1057214	37°10'01.0"N	85°57'00.0"W
NEW	APC TOWERS IV, LLC		37°23'02.97"N	85°55'15.16"W

PREPARED FOR:



8601 SIX FORKS RD, SUITE 250
RALEIGH, NC 27815

PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIKSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

DRAWING NOTICE:
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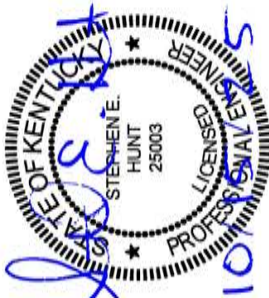
DRAWN BY: WAM

CHECKED BY: DS

REVISIONS

1	10/15/25	JW	FINALS
2	10/02/25	WAM	FINALS
3	06/23/25	JAE	PRELIMINARY REVIEW
4	08/18/25	WAM	PRELIMINARY REVIEW
NO.	DATE	BY	DESCRIPTION

ENGINEER'S STAMP:



NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME:

CK BONNIEVILLE

ADDRESS:

± 98 WRIGHT LN,
BONNIEVILLE, KY 42713

COUNTY:

HART

LATITUDE:

37° 23' 02.97" N

LONGITUDE:

85° 55' 15.16" W

SITE NUMBER:

KY-4130

SHEET TITLE:

OVERALL SITE PLAN

DRAWING NO.

ASR

REVISION:

1

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Form Approved OMB No.2120-0001
Expiration Date: 05/31/2026

Privacy Act Statement (5 U.S.C. § 552a(e)(3)): Authority: Information solicited by the Federal Aviation Administration (FAA) Obstruction Evaluation/Airport Airspace Analysis (OE/AAA) is authorized by 49 U.S.C. § 44718 and 47101 Purpose: The FAA OE/AAA is an application used to evaluate all structures that may affect the national airspace system and defend against potential hazards to the safety and efficient use of the navigable airspace. The information collected is used to allow a user access to the OE/AAA and to administer the Aeronautical Study Process. Routine Uses: In accordance with the Privacy Act system of records notice, DOT/ALL 16 Mailing Management System and DOT/FAA 826 Petitions for Exemptions, Other than Medical Exemptions this information may be disclosed to officials within the federal government and the public in general. DOT/ALL 13 - Internet/Intranet Activity and Access Records, this information is routinely used; • To provide information to any person(s) authorized to assist in an approved investigation of improper access or usage of DOT computer systems; • To an actual or potential party or his or her authorized representative for the purpose of negotiation or discussion of such matters as settlement of the case or matter, or informal discovery proceedings; • To contractors, grantees, experts, consultants, detailees, and other non-DOT employees performing or working on a contract, service, grant cooperative agreement, or other assignment from the Federal government, when necessary to accomplish an agency function related to this system of records; and • To other government agencies where required by law.

Disclosure: Submission of the information is voluntary, however, failure to submit requested information will result in FAA’s inability to grant you access to the system and may result in an inability of the FAA to process the notice or administer the aeronautical study process for the construction, alteration, activation, or deactivation proposed.



U.S. Department of Transportation
Federal Aviation Administration


Failure to Provide All Requested Information May Delay Processing of your Notice

FOR FAA USE ONLY

Notice of Proposed Construction or Alteration

Aeronautical Study Number
2025-ASO-20846-OE

Status: Reviewing

<div>1. Sponsor</div> <div>Name: APC Towers</div> <div>Attn of: Jonathan Greene</div> <div>Address: 8601 Six Forks Rd Suite 250</div> <div>City: Raleigh State: NC Zip: 27615</div> <div>Country: US</div> <div>Phone: tel:+1-704-724-8382 Fax:</div>	<div>9. Latitude: See Collected Point(s)</div> <div>10. Longitude: See Collected Point(s)</div> <div>11. Datum: See Collected Point(s)</div> <div>12. Nearest: City: Bonnieville State: Kentucky</div> <div>13. Nearest <i>Public-use</i> or Military Airport or Heliport: LEITCHFIELD-GRAYSON COUNTY(M20)</div> <div>14. Distance from #13. to Structure: 99058 ft.</div> <div>15. Direction from #13. to Structure: 93 deg</div> <div>16. Site Elevation (SE): See Collected Point(s)</div> <div>17. Structure Height (AGL): See Collected Point(s)</div> <div>18. Overall Height (#16 + #17) (AMSL): See Collected Point(s)</div> <div>Current Overall Height (#16 + #17) (AMSL): See Collected Point(s)</div> <div>19. Previous FAA Aeronautical Study Number (if applicable):</div>
<div>2. Sponsor's Representative</div> <div>Name: APC Towers, LLC</div> <div>Attn of: Jonathan Greene</div> <div>Address: 8601 Six Forks Road</div> <div>City: RALEIGH State: NC Zip: 27615</div> <div>Country: US</div> <div>Phone: tel:+1-919-249-7732 Fax:</div>	<div>20. Description of Location:</div> <div>See Survey</div> <div></div>
<div>3. Notice of: Construction</div> <div>4. Duration: Permanent (Months: Days:)</div> <div>5. Work Schedule: N/A</div> <div>6a. Type: Antenna Tower 6b. Name: KY-4130 CK Bonnieville</div> <div>7. Preferred Marking/Lighting: Not Marked/Medium Intensity Strobe only</div> <div>Current Marking/Lighting:</div> <div>8. FCC Antenna Registration Number (if applicable):</div>	<div>Processed 7460-2 Forms :</div> <div>Supplemental Form 7460-2 : Add 7460-2</div>



21. Description of
Proposal:
New Constructions for antenna tower

Frequencies:









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

Specific Frequencies:

LOW ↑⇌	HIGH ↑⇌	ERP
3700	3980 MHz	1640 W
3700	3980 MHz	3280 W

LOW 	HIGH 	ERP
2345	2360 MHz	2000 W
2496	2690 MHz	500 W

Collected Point(s):





Label 	Latitude 	Longitude 	Datum 	AGL 	SE 	SE Validation 	SE Comments 
KY-4130 CK Bonniev...	37 23 02.97N	85 55 15.16W	NAD83	250 ft	681 ft	PASSED	

Notice is required by 14 Code of Federal Regulations, part 77 pursuant to 49 U.S.C., Section 44718. Persons who knowingly and willingly violate the notice requirements of part 77 are subject to a civil penalty of \$1,000 per day until the notice is received, pursuant to 49 U.S.C., Section 46301(a)

I hereby certify that all of the above statements made by me are true, complete, and correct to the best of my knowledge. In addition, I agree to mark and/or light the structure in accordance with established marking & lighting standards as necessary.

This FAA Form 7460-1 was submitted electronically on 09/19/2025 at 16:36 PM EDT.

Add Document

Title	Type	File		
<input type="text" value="Survey"/>	<input type="text" value="Survey"/> 	CK Bonnieville 1A.pdf 	<input type="button" value="DONE"/>	<input type="button" value="X"/>
<input type="text" value="Survey"/>	<input type="text" value="Survey"/> 	CK Bonnieville 1A.pdf 	<input type="button" value="DONE"/>	<input type="button" value="X"/>

Letter	Date
<input type="text"/>	<input type="text"/>

Previous

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

JURISDICTION

602 KAR 50:030

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

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

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

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

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

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

INSTRUCTIONS

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

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

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

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

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

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

PENALTIES

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

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

APPLICANT (name) Jack Luckadoo		PHONE 910-520-7646	FAX	KY AERONAUTICAL STUDY #	
ADDRESS (street) 8601 Six Forks Road Suite 250		CITY Raleigh		STATE NC	ZIP 27615
APPLICANT'S REPRESENTATIVE (name) Jack Luckadoo		PHONE 910-520-7646	FAX		
ADDRESS (street) 8601 Six Forks Road Suite 250		CITY Raleigh		STATE NC	ZIP 27615
APPLICATION FOR <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration <input type="checkbox"/> Existing				WORK SCHEDULE	
DURATION <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Temporary (months days)				Start 8/2026 End 10/2026	
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 checked="" 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 checked="" type="checkbox"/> Other			
LATITUDE 37°23'02.97"		LONGITUDE 85°55'15.16"		DATUM <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> Other	
NEAREST KENTUCKY City Bonniesville County Hart		NEAREST KENTUCKY PUBLIC USE OR MILITARY Leitchfield-Grayson County Airpoty			
SITE ELEVATION (AMSL, feet) 681.3		TOTAL STRUCTURE HEIGHT (AGL, feet) 250		CURRENT (FAA aeronautical study #) 2025-ASO-20846-OE	
OVERALL HEIGHT (site elevation plus total structure height, feet) 931.3				PREVIOUS (FAA aeronautical study #)	
DISTANCE (from nearest Kentucky public use or Military airport to structure) 16.3 miles				PREVIOUS (KY aeronautical study #)	
DIRECTION (from nearest Kentucky public use or Military airport to structure) Heading of 93.18° E					
DESCRIPTION OF LOCATION (Attach USGS 7.5 minute quadrangle map or an airport layout drawing with the precise site marked and any certified survey.) 1A Letter attached					
DESCRIPTION OF PROPOSAL Proposed new antenna tower					
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? 9/19/2025					
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 Jack Luckadoo	TITLE Project Manager	SIGNATURE <i>Jack Luckadoo</i>		DATE 10/1/2025	
COMMISSION ACTION		<input type="checkbox"/> Chairperson, KAZC <input type="checkbox"/> Administrator, KAZC			
<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved		SIGNATURE		DATE JJ	

GEOTECHNICAL REPORT OF SUBSURFACE INVESTIGATION

November 4, 2025

**PROPOSED GUYED TOWER
CK BONNIEVILLE
(KY-4130)**

**Wright Lane
Bonnieville, KY 42713**

37.384158, -85.920878

Prepared for:



Prepared by:



Jorge Varela

Jorge Varela, P.E.
Senior Geotechnical Engineer



Raphael Mohamed, P.E.
Registered KY 24429

**Engineered Tower Solutions, PLLC - 3227 Wellington Court - Raleigh, NC 27615
(919) 782-2710**

Project Summary

Item	Description
Project Description	A geotechnical exploration and report have been prepared for this proposed guyed tower. Included in this report are the results of the field exploration and the recommendations for the design of the foundation system.
Site Coordinates	Latitude: 37.384158 Longitude: -85.920878
Site Condition	The proposed tower will be installed at Wright Lane in Bonnieville, Kentucky.
Frost Depth	Based on the TIA Standard (TIA-222-H), dated October 2017, the recommended design frost penetration depth to be used for Hart County, KY is 20 inches (1.6 ft).
Groundwater	Groundwater was not encountered at the time of drilling. Please note that subsurface water levels will fluctuate with seasonal and cyclical temperatures and precipitation and can be higher or lower at other times.
Proposed Foundation	We assume the proposed foundation will be supported with either pad and pier or drilled shaft (caisson).

Field Exploration

Item	Description
Date	October 29 th , 2025
Number of Borings	4
Location	B-1 located at tower center (Latitude: 37.384158 Longitude: -85.920878). B-2 through B-4 located at the approximate location of the achors.
Equipment Used	CME 45
Advancement Method	Hollow Stem Auger (HSA) and Rock Coring
Sampling Method	ASTM D-1586 with 1.5 I.D. Split Spoon Sampler ASTM D2113 Standard Practice for Rock Core Drilling and Sampling of Rock for Site Exploration

Laboratory Classification and Testing

Standard	Description
ASTM D2488	Standard Practice for Description and Identification of Soils

Subsurface Profile

Based on the results of our borings, the soils beneath the surface can be summarized in the table below:

Material Encountered	Approximate Depth to Bottom of Stratum	Description	Consistency / Density
CLAY	4	Brown and tan sandy lean clay	Medium Stiff Very Stiff
PWR	5.5	Partially Weathered Rock sampled as limestone	--
LIMESTONE	15.5	Light gray, fine-grained, hard Limestone	--

Detailed descriptions of conditions encountered at each exploration point are indicated on the individual logs in the Appendix B. Stratification boundaries on the boring logs represent the approximate location of changes in soil types; in-situ, the transition between materials may be gradual.

Groundwater was not encountered at the time of drilling. Groundwater levels will fluctuate with seasonal and climatic changes and may be different at other times.

Earthwork Recommendations – Equipment Mat

Earthwork is anticipated to include excavations and fill placement. The following sections provide recommendations for use in the preparation of the equipment mat foundation area and access drive.

Site Preparation

The subgrade should be evaluated under the direction of the Geotechnical Engineer. Areas where soft material are present or excessively wet or dry material should either be removed, or moisture conditioned and recompacted.

Fill Material Types

Soil Type	USCS Classification	Acceptable Parameters (for Structural Fill)
Imported Low- to Moderate- Plasticity Soil ²	CL, ML, SC or SM	All locations and elevations
Sand / Gravel with greater than 12% fines	GW/GP, SW/SP	Crushed stone base course may be used for the access roadway or beneath shallow foundations as a replacement material for overexcavated soils.
Near-Surface On-site soils ²	CL	On-site soils generally appear suitable for use as fill when they contain at least 12% fines (clay and/or silt) and are compacted at an appropriate moisture content.

1. Controlled, compacted fill should consist of approved materials that are free of organic matter and debris. A sample of each material type should be submitted to the geotechnical engineer for evaluation.
2. Low- to moderate-plasticity cohesive soil or granular soil having at least 12% fines

Fill Compaction Requirements

Item	Structural Fill	General Fill
Maximum Lift Thickness	8 inches or less in loose thickness when heavy, self-propelled compaction equipment is used	Same as Structural fill
Minimum Compaction Requirements ^{1, 2}	98% of max. below foundations and within 1 foot of finished pavement subgrade 95% of max. above foundations, below floor slabs, and more than 1 foot below finished pavement subgrade	92% of max.
Water Content Range ¹	Low plasticity cohesive: -2% to +3% of optimum High plasticity cohesive: 0 to +4% of optimum Granular: -3% to +3% of optimum	As required to achieve min. compaction requirements

1. Maximum density and optimum water content as determined by the standard Proctor test (ASTM D 698).
2. High plasticity cohesive fill should not be compacted to more than 100% of standard Proctor maximum dry density.

Excavations

Groundwater was not encountered at the time of drilling. Although not expected, if encountered in deep trench excavations during construction, groundwater or perched groundwater will require dewatering until backfilling operations are complete.

All excavations that may be required should, at a minimum, comply with applicable local, state and federal safety regulations, including the current OSHA Excavation and Trench Safety Standards to provide stability and safe working conditions.

Slopes

For permanent slopes in unreinforced compacted fill areas, we recommended maximum configurations of 3:1 (Horizontal: Vertical) for the cohesive soils (clay) found at the site.

If steeper slopes are required for site development, stability analyses should be completed to design the grading plan. The face of all slopes should be compacted to the minimum specification for fill embankments. Fill slopes should be overbuilt and trimmed to compacted material.

Earthwork Construction Considerations

The near-surface, on-site soils will lose strength when exposed to moisture. To the extent practical, earthwork should be performed during drier periods of weather. Increased remedial measures due to wet and soft or otherwise unsuitable conditions should be expected if earthwork is performed during colder and wetter periods of weather.

A qualified geotechnical engineer should be retained during the earthwork phase of the project to observe earthwork and to perform necessary tests and observations during subgrade preparation; to monitor proof-rolling, placement and compaction of controlled compacted fills, and backfilling of excavations to the completed subgrade.

Foundations Recommendations

The following recommendations are made based on our review of the test boring data and our past experience with similar projects and subsurface conditions. Ultimate soil strength parameters are presented on table below.

Ultimate Strength Parameters

Boring #	Depth (ft)	Unified Soil Classification	Total Unit Weight (pcf)	Friction Angle (degrees)	Cohesion (psf)
B-1	0.0 – 2.0	CL	115	--	1,100
	2.0 – 4.0	CL	115	--	1,500
	4.0 – 5.5	PWR	130	38	--
	5.5 – 15.5	ROCK	145	--	10,000
B-2	0.0 – 1.0	PWR	130	38	--
B-3	0.0 – 2.0	CL	100	--	400
	2.0 – 4.0	CL	115	--	1,100
	4.0 – 6.0	CL	115	--	1,700
	6.0 – 7.4	PWR	130	38	--
B-4	0.0 – 2.0	CL	115	--	1,100
	2.0 – 4.0	PWR	130	38	--

1. Groundwater was not encountered at the time of drilling. Utilize bouyon unit weight below this depth

Based on the subsurface conditions and typical design foundation loads for similar guyed towers, we recommend that either a caisson (drilled shaft) or a pad/pier be used to support the new tower.

Modulus of Subgrade Reaction

A vertical and horizontal modulus of subgrade reaction may be derived using the following equations and soils parameters expressed in the above table:

$$k_{s-v} = 12 \cdot SF \cdot q_a$$

$$k_{s-h} = k_{s-v} \cdot B$$

Where:

q_a = Allowable Bearing Capacity (ksf)

SF = Safety Factor

B = Base width (ft), use 1 if $B < 1$ ft

k_{s-v} = Vertical Modulus of Subgrade Reaction (kcf)

k_{s-h} = Horizontal Modulus of Subgrade Reaction (ksf)

Caisson (Drilled Shaft)

Should caissons (drilled shafts) be used, the caissons (drilled shafts) will achieve compressive (downward) and tensile (uplift) resistance through skin friction along the sides of the shafts. In addition to skin friction, bearing resistance at the caisson's tip will contribute to compressive capacity. We recommend the values given the table below be used for this project. Please note the tip bearing capacity and skin frictions are net ultimate and ultimate values respectively. Appropriate factors of safety or resistance factors should be used. Lateral loads can be resisted by the lateral stiffness of the soil. Parameters for analysis of the laterally loaded caisson are also given the table below.

Caisson (Drilled Shaft) Parameters

Depth (ft)	Net Ultimate Tip Bearing Capacity (ksf)	Ultimate Skin Friction ¹ (ksf)		Lateral Modulus (pci)	ϵ_{50} (in/in)
		Compressive	Uplift		
0.0 – 2.0	--	--	--	--	--
2.0 – 4.0	--	0.8	0.8	1,000	0.005
4.0 – 5.5	28	0.3	0.3	225	--
5.5 – 15.5	40	5.0	5.0	2,000	0.001

1. We recommend the skin friction be ignored for the top 3 ft of the caisson

Based on the subsurface soil conditions, excavations for the caissons (drilled shafts) should be possible using a large, truck-mounted, hydraulic-advanced drill rig. All debris, loose or disturbed soil should be removed from the excavation prior to placing reinforced steel and/or concrete.

Reinforcing steel and/or concrete should be placed immediately upon completion of the excavation.

The excavations may be susceptible to caving. Drilling fluid or casing could be used to assist in keeping the drilled hole open. If casing is used, we recommend it be removed from the excavation as concrete is being placed. Continuous vibration or other approved methods should be used during casing withdrawal to reduce the potential for void-space formation within the concrete. If water is present during concrete placement and/or drilling fluids are used to maintain hole stability, concrete should be pumped or otherwise discharged to the bottom of the hole via a hose or tremie pipe. The end of the hose or tremie pipe must remain below the top surface of any water, drilling fluid and the in-place concrete at all times. Additionally, concrete should be consolidated using vibration methods over the entire length and width of the caissons and the consolidation should be performed only after these fluids are removed and to the extent possible.

Pad & Pier / Single Mat Foundation

If the site has been prepared in accordance with the requirements noted in *Earthwork Recommendations – Equipment Mat*, the tower’s foundation capacity can be determined using the soil’s bearing capacity, passive pressure resistance, and a sliding friction factor.

Net Ultimate Bearing Capacity and Sliding Friction Factor

Depth² (ft)	Net Ultimate Bearing Capacity¹ (psf)	Sliding Friction Factor¹
0.0 – 2.0	--	--
2.0 – 4.0	8,500	0.30
4.0 – 12.0	11,000	0.55

¹. This value is a net ultimate value and an appropriate factor of safety or resistance factor should be used

Ultimate Passive Pressure and Friction Factor

Boring #	Depth (ft)	Ultimate Passive Pressure ¹ (psf) ¹
B-1	0.0 – 2.0	0 – 400
	2.0 – 4.0	400 – 800
	4.0 – 8.0	800 – 2,400
	8.0 – 12.0	2,400 – 5,600

1. Ultimate passive pressure can be interpolated for foundation depths with the depth ranges given

Anchor Blocks

Concrete gravity blocks achieve resistance against the applied loads through the weight of the concrete in the blocks, the weight of the soil above the blocks, skin friction between the block and surrounding soil, and passive pressures developed in the soil. For these calculations we recommend the following values be used:

Ultimate Passive Pressure and Friction Factor

Boring #	Depth (ft)	Ultimate Passive Pressure (psf)	Sliding Friction Factor
B-2 (Anchor)	0.0 – 2.0	0 – 400	0.30
B-3 (Anchor)	0.0 – 2.0	0 – 400	0.30
	2.0 – 4.0	400 – 800	
	4.0 – 8.0	800 – 1,600	
B-4 (Anchor)	0.0 – 2.0	0 – 400	0.30
	2.0 – 4.0	400 – 800	

Seismic Parameters

The seismic design requirements for buildings and other structures are based on Seismic Design Category. Site Classification is required to determine the Seismic Design Category for a structure. The Site Classification is based on the upper 100 feet of the site profile defined by a weighted average value of either shear wave velocity, standard penetration resistance, or undrained shear strength in accordance with Section 20.4 of ASCE 7 and the International Building Code (IBC)

Seismic Site Classification

Item	Seismic Parameter
2018 International Building Code Seismic Site Classification	C ¹
Design Spectral Response Acceleration Parameters	$S_{ds} = 0.27g$ $S_{d1} = 0.18g$

Soil Resistivity

Laboratory soil resistivity test were conducted according to procedures designated in ASTM G187 and test results are presented in the following table. Soil resistivity values will vary with temperature and moisture content changes and may be different at other times.

Soil Resistivity Testing Results

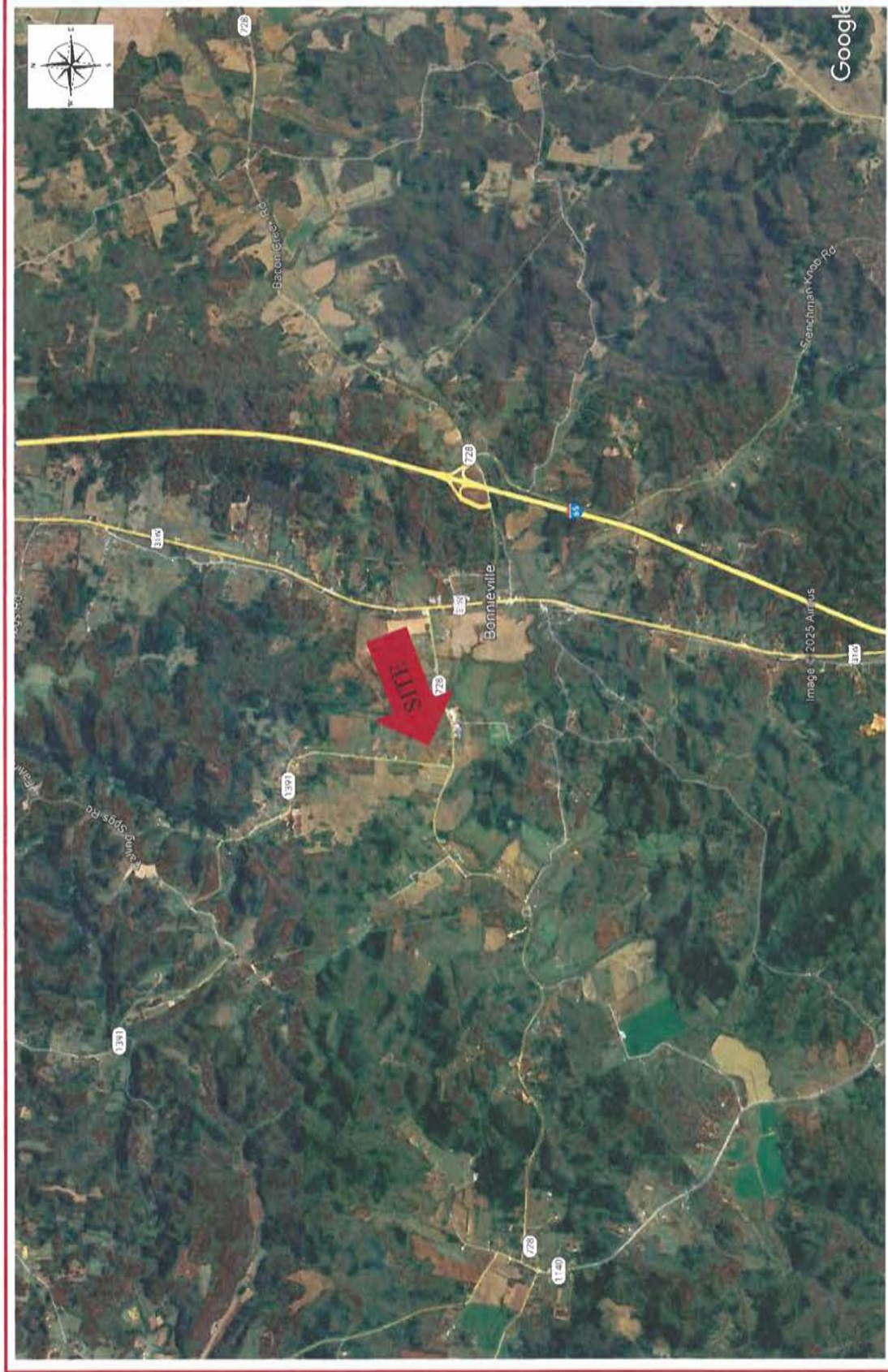
Boring	Sample Depth (ft)	Resistivity (Ohm-cm)
B-1	1 – 3.0	32,000

LIMITATIONS OF REPORT

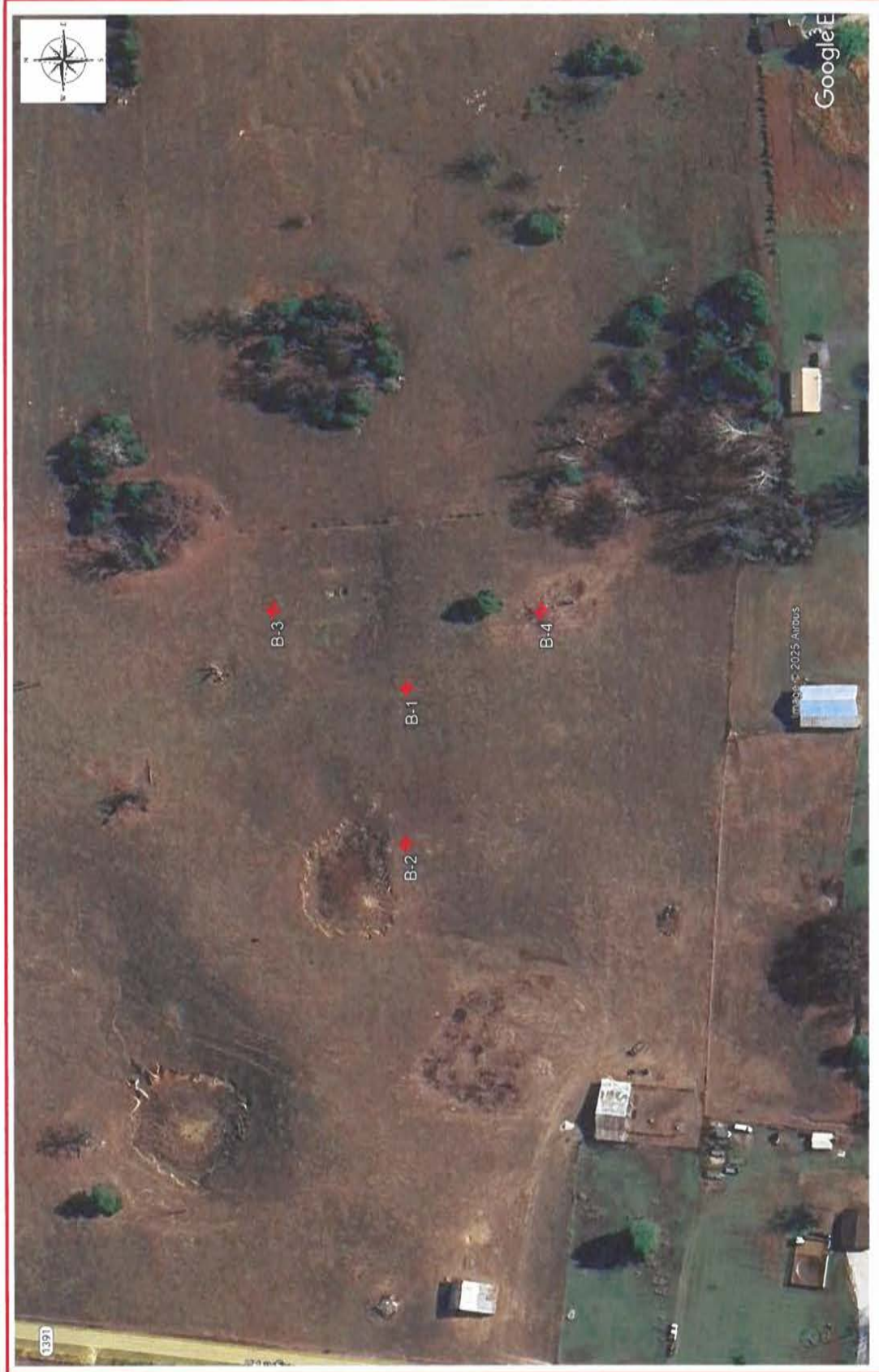
This report has been prepared in accordance with generally accepted geotechnical engineering practices for the specific application of this project. The conclusions in this report are based on the applicable standards of our practice in this geographic area at the time this report was prepared. No other warranty, expressed or implied, is made.

The analyses and conclusions submitted herein are based, in part, upon the data obtained from the subsurface exploration performed for this analysis. The soil and ground water conditions can vary across the site. Opinions and conclusions are subject to change if new or additional information is submitted for review.

APPENDIX A
LOCATION INFORMATION



BORING LOCATION PLAN
CK BONNIEVILLE (KY-4130)
Job Number: 25140692



SITE PHOTO
CK BONNIEVILLE (KY-4130)
Job Number: 25140692



APPENDIX B
SOIL TEST BORING



BORING NUMBER B-1

PAGE 1 OF 1

CLIENT APC Towers **PROJECT NAME** CK BONNIEVILLE (KY-4130)
PROJECT NUMBER 25140692 **PROJECT LOCATION** Wright Lane, Bonnieville, KY 42713
DATE 10/29/2025 **COORDINATES** 37.384158, -85.920878
DRILLING METHOD Hollow Stem Auger (HSA) and Rock Coring **GROUND WATER LEVELS:**
DRILLING EQUIPMENT CME 45 **AT TIME OF DRILLING** --- Not Encountered
LOGGED BY J. Varela **AT END OF DRILLING** --- Not Encountered
NOTES Auger Refusal at 5.5 feet **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)
0					
		SANDY LEAN CLAY (CL) , red and brown, moist, stiff to very stiff.	SS 1		0-5-6 (11)
			SS 2		3-6-9 (15)
5		PARTIALLY WEATHERED ROCK (PWR) , sampled as limestone.	SS 3		3-4-50/4"
		LIMESTONE , Light gray, fine-grained, hard, slightly to unweathered, thinly bedded. Fractures widely spaced, tight to slightly open with minor calcite staining. Competent, strong rock with good core integrity..			
10			RC 1	99 (88)	
15					

Bottom of borehole at 15.5 feet.

ETS - BORING W/ROCK CORING 2 - ETS DATABASE JUN30.GDT - 11/4/25 12:32 - R 2025140692 CK BONNIEVILLE1739 GEOTECHREPORT1BONNIEVILLE.GPJ

**BORING NUMBER B-2**

PAGE 1 OF 1

CLIENT APC Towers PROJECT NAME CK BONNIEVILLE (KY-4130)
PROJECT NUMBER 25140692 PROJECT LOCATION Wright Lane, Bonnieville, KY 42713
DATE 10/29/2025 COORDINATES 37.384158, -85.921591
DRILLING METHOD Hollow Stem Auger (HSA) GROUND WATER LEVELS:
DRILLING EQUIPMENT CME 45 AT TIME OF DRILLING --- Not Encountered
LOGGED BY J. Varela AT END OF DRILLING --- Not Encountered
NOTES AFTER DRILLING --- Not Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)
0					
		<u>PARTIALLY WEATHERED ROCK (PWR)</u> , sampled as limestone.	SS 1		50/3"

Auger Refusal at 1.0 feet.

**BORING NUMBER B-3**

PAGE 1 OF 1

CLIENT APC Towers PROJECT NAME CK BONNIEVILLE (KY-4130)
PROJECT NUMBER 25140692 PROJECT LOCATION Wright Lane, Bonnieville, KY 42713
DATE 10/29/2025 COORDINATES 37.384619, -85.920506
DRILLING METHOD Hollow Stem Auger (HSA) GROUND WATER LEVELS:
DRILLING EQUIPMENT CME 45 AT TIME OF DRILLING --- Not Encountered
LOGGED BY J. Varela AT END OF DRILLING --- Not Encountered
NOTES AFTER DRILLING --- Not Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)
0					
		<u>SANDY LEAN CLAY (CL)</u> , brown and tan, moist, medium stiff.	SS 1		1-2-2 (4)
		<u>SANDY LEAN CLAY (CL)</u> , brown and tan, moist, stiff to very stiff.	SS 2		3-5-6 (11)
5			SS 3		5-8-9 (17)
		<u>PARTIALLY WEATHERED ROCK (PWR)</u> , sampled as limestone.	SS 4		5-50/5"

Auger Refusal at 7.4 feet.



BORING NUMBER B-4

PAGE 1 OF 1

CLIENT	APC Towers	PROJECT NAME	CK BONNIEVILLE (KY-4130)
PROJECT NUMBER	25140692	PROJECT LOCATION	Wright Lane, Bonnieville, KY 42713
DATE	10/29/2025	COORDINATES	37.383667, -85.920552
DRILLING METHOD	Hollow Stem Auger (HSA)	GROUND WATER LEVELS:	
DRILLING EQUIPMENT	CME 45	AT TIME OF DRILLING	--- Not Encountered
LOGGED BY	J. Varela	AT END OF DRILLING	--- Not Encountered
NOTES		AFTER DRILLING	--- Not Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)
0					
		<u>SANDY LEAN CLAY (CL)</u> , brown and tan, moist, stiff.	SS 1		3-5-6 (11)
		<u>PARTIALLY WEATHERED ROCK (PWR)</u> , sampled as limestone.	SS 2		5-9-50/1"

Auger Refusal at 4.0 feet.	SS 3	50/0"
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ETS - BORING W/ROCK CORING 2 - ETS DATABASE JUN30.GDT - 11/4/25 12:32 - R 2025140692 CK BONNIEVILLEGEI1739 GEOTECHREPORTBONNIEVILLE.GPJ

DIRECTIONS FROM THE HART COUNTY COURTHOUSE

From the Hart County Clerk head Northwest on US 31 W N / Main Street toward East Union Street. Continue to follow US 31 W N for 8.2 miles. Turn left onto KY-728 and follow for 1.1 miles. Turn right onto State Highway 1391. Site is on the right in +/- 413 feet.

Prepared by Clark, Quinn, Moses, Scott, & Grahm, LLP | 317-637-1321

OPTION FOR EASEMENT AGREEMENT

THIS OPTION FOR EASEMENT AGREEMENT ("**Agreement**") is made as of the latter signature date below ("**Effective Date**"), by and between TOMMMY SHIRLEY and KARA SHIRLEY, husband and wife, whose mailing address is 98 Wright Lane, Bonnieville, KY 42713 ("**Grantor**"), and APC TOWERS IV, LLC, a Delaware limited liability company, whose mailing address is 8601 Six Forks Road, Suite 250, Raleigh, NC 27615, Attention: Daniel C. Agresta III, President & CEO, Site Number: KY-4130 ("**Grantee**"). All references hereafter to Grantee and Grantor shall include their respective heirs, successors and assigns (Grantee and Grantor, collectively, "**Parties**").

RECITALS

A. Grantor is the owner of certain real property located at 98 Wright Lane, Bonnieville, Hart County, KY 42713, also known as parcel number 04-00-00-108.00, as more particularly described on **Exhibit A** attached hereto and incorporated herein by reference (the "**Grantor's Property**").

B. Grantor desires to grant to Grantee, and Grantee desires to obtain from Grantor an option to acquire easements granting Grantee the right to use a portion of Grantor's Property for purpose of constructing, operating, maintaining, repairing, replacing and removing a communications tower and for certain other related activities as set forth herein.

NOW THEREFORE, for and in consideration of the covenants and agreements herein contained and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

1. **Option for Easement.** In consideration of the sum of [REDACTED] (separate and in addition to the Easement Fee, as defined below) (the "**Option Fee**"), to be paid by Grantee to Grantor upon full execution of this Agreement, Grantor grants to Grantee for a term of eighteen (18) months (the "**Option Period**") an exclusive and irrevocable option to acquire (i) an exclusive ninety-nine (99)-year easement (the "**Communication Easement**") in, to, under and over the portion of the Grantor's Property substantially as shown and described on **Exhibit B** for the transmission and reception of any and all wireless communication signals and the construction, maintenance, repair, replacement, improvement, operation and removal of towers, antennas, buildings, fences, gates and related facilities for Grantee's use and that of Grantee's subtenants, licensees and customers (collectively, "**Facilities**") and any related activities and uses including those necessary for Grantee to comply with any obligations arising under any agreements with wireless communications providers together with the right to enter Grantor's Property at any time, day or night, as may be required in connection with the foregoing activities and use; (ii) non-exclusive easements in and to the Communication Easement over a portion of Grantor's Property described on **Exhibit B** hereto (the "**Access Easement**" and "**Utility Easement**"), for the access and utilities; and (iii) if requested by Grantee, non-exclusive easements in and to Grantor's Property for the development, installation, repair, replacement, improvement, maintenance and removal of guy wires and anchors, as applicable over a portion of Grantor's Property also described on **Exhibit B** hereto (collectively, the "**Guy Wire Easement**") respectively, on the terms and conditions set forth herein below (the "**Option**"). As used herein "**Easements**" means collectively the Communication Easement, Access Easement, Utility Easement and the Guy Wire Easement, if applicable. Grantee has the right to extend the Option for one (1) additional term of eighteen (18) months (the "**Extended Option Period**"). The Option will automatically be extended for the/each Extended Option Period unless Grantee provides Grantor written notice of its intent not to extend the Option. Grantee will pay Grantor an additional payment of [REDACTED] (separate and in addition to the Easement Fee, as defined below) (the "**Additional Option Fee**"), within thirty (30) days of the commencement of the Extended Option Period. In the event that Grantee

exercises the Option, Grantee will pay a one-time lump sum payment to Grantor in the amount of [REDACTED] (the "Easement Fee").

2. **Feasibility Studies.** Upon prior notification to Grantor, during the Option Period and any Extended Option Period, Grantee and its agents, engineers, surveyors and other representatives will have the right to enter upon the Grantor's Property to inspect, examine, conduct soil, drainage and precolation testing, material sampling, and other geological or engineering tests, studies or surveys of Grantor's Property (collectively, the "Tests"), to conduct title examinations and lien searches of Grantor's Property, to apply for and obtain licenses, permits, approvals, or other relief required of or deemed necessary or appropriate at Grantee's sole discretion for its use of the Easements for the Facilities including, without limitation, applications for zoning variances, zoning ordinances, amendments, special use permits, and construction permits (collectively, the "Government Approvals"), initiate the ordering and/or scheduling of necessary utilities, and otherwise to do those things on or off the Grantor's Property that, in the opinion of Grantee, are necessary in Grantee's sole discretion to determine the physical condition of the Grantor's Property, the environmental history of the Grantor's Property, Grantor's title to the Grantor's Property and the feasibility or suitability of the Grantor's Property for Grantee's permitted use, all at Grantee's expense. Grantee shall prepare, at Grantee's expense, for review and approval by Grantor, which approval shall not be unreasonably withheld, conditioned or delayed, a boundary or similar survey of the Easements (the "Survey") from a surveyor licensed under the laws of the state in which Grantor's Property is located. The Survey will include legal descriptions for all of the Easements and such descriptions, after approval by Grantor, will replace any sketch or depiction of the Easements and be used on the final Easement Agreement to be executed by the Parties. Grantor agrees to cooperate with Grantee in obtaining the Government Approvals, at Grantee's expense but for no additional consideration payable to Grantor. Grantor hereby irrevocably appoints Grantee or Grantee's agent as Grantor's agent to file applications on behalf of Grantor with federal, state and local governmental authorities which applications relate to Grantee's use of Grantor's Property and the Easements including but not limited to land use and zoning applications. Grantee will not be liable to Grantor or any third party on account of any pre-existing defect or condition on or with respect to the Grantor's Property, whether or not such defect or condition is disclosed by Grantee's inspection. No such inspections, investigations or examinations shall unreasonably interfere with Grantor's use of Grantor's Property.

3. **Grantor's Cooperation.** Grantor shall furnish to Grantee, within five (5) business days of Grantee's reasonable request, all reports, documents, records, and information, including electronic copies thereof, that Grantor has in its possession or can obtain without unreasonable effort or expense, to permit Grantee to perform the due diligence investigations described in Section 2 above with respect to Grantor's Property. In addition, upon Grantee's exercise of the Option, Grantor agrees to execute and deliver to Grantee all documents reasonably requested by Grantee and Grantee's national title insurance company (the "Title Company") as further described in Section 6 below and, upon Grantee's written request, remove liens and encumbrances disclosed by Grantee's title examination that Grantee reasonably believes will adversely affects the Easements and Grantee's use thereof.

4. **Representations, Warranties and Covenants of Grantor.** As a material inducement to Grantee to enter into this Agreement and to consummate the transactions contemplated herein, Grantor represents and warrants the following for the benefit of Grantee and Grantee's permitted assigns, each of which are true and correct at the execution of this Agreement by Grantor and will be true and correct at the signing of the Easement Agreement contemplated by this Agreement and from which Grantor shall not be relieved by any investigation made by or on behalf of Grantee:

- (a) Grantor possesses good and marketable fee simple title in and to Grantor's Property free and clear of all liens, claims, encumbrances, restrictions and reservations except for current state and county ad valorem real property or personal property taxes not due and payable, (ii) easements

for the maintenance of public utilities that do not adversely affect Grantee's intended use of the Easements and (iii) identification of any mortgage, deed of trust or similar instrument.

- (b) Grantor has neither received notice nor are there (i) any suits, judgments or violations relating to Grantor's Property of any zoning, building, fire, health, pollution, environmental protection or waste disposal or other governmental ordinance, code, law or regulation; (ii) any pending or, to Grantor's knowledge, contemplated proceedings or public improvements which could or might result in the levy of any special tax or assessment against Grantor's Property; (iii) litigation or proceedings of any type pending or, to Grantor's knowledge, threatened against or relating to Grantor or Grantor's Property, including, but not limited to, condemnation or eminent domain proceedings; and (iv) plans for special assessments or liens or for the widening, change in grade or limitation on use of streets or roads abutting Grantor's Property or for a change in the zoning or master plan for Grantor's Property.
- (c) There are no existing options, leases or agreements to lease, either oral or written, regarding Grantor's Property affecting the Easements, nor are there any persons in possession or occupancy of the area of the Easements or any part thereof nor are there any persons who have possessory rights in respect to the areas of the Easements or any part thereof except for Grantor. No part of Grantors' Property that will be subject to the Easements is subject to a right of first refusal, option or other right which Grantor or one of its predecessors may have granted to other persons or parties, whether oral or written.
- (d) The operation of Grantor's Property has met, in all material respects, the applicable laws and regulations of all federal, state, and local government authorities having jurisdiction, including, without limitation, all requirements pursuant to environmental protection, health, or safety laws and regulations. Grantor further represents that it has not permitted or engaged in the use of, and has no knowledge of, any substance, chemical or waste (collectively "**Hazardous Substance**") located on, under or about Grantor's Property that is identified as hazardous, toxic or dangerous in any applicable federal, state or local law or regulation. No underground storage tanks for petroleum or any other Hazardous Substance, or underground piping or conduits, are or have previously been located on Grantor's Property, and no asbestos-containing insulation or products containing PCB or other Hazardous Substances have been placed anywhere on Grantor's Property by Grantor or, to Grantor's knowledge, by any prior owner or user of Grantor's Property.
- (e) Grantor has full power, authority and legal right to execute, deliver and carry out Grantor's obligations under this Agreement and under all documents to be executed in connection herewith without the consent or joinder of any other person or entity; the execution, delivery, and performance of this Agreement and the transactions contemplated herein shall not violate or breach the terms, conditions or provisions of or cause a default under any agreement, order or decree to which Grantor is a party; and the persons signing this Agreement has full power and authority to bind Grantor and to execute and perform this Agreement.

5. **Exercise of Option.** During the Option Period, Grantee may exercise the Option by notifying Grantor in writing (the "**Exercise Notice**"). If Grantee exercises the Option then Grantor will grant the Easements to the Grantee subject to the terms and conditions of the preapproved Easement Agreement attached hereto as **Exhibit C** and the Parties will complete the transactions contemplated by this Agreement pursuant to the procedures set forth in Section 6 below. If Grantee does not exercise the Option, this Agreement will terminate and the Parties will have no further liability to each other except that Grantee will restore Grantor's Property to its condition as it existed at the commencement of the Option Period, reasonable wear and tear and casualty not caused by Grantee excepted, and shall indemnify, defend

and hold Grantor harmless from and against any and all injury, loss, damage or claims arising directly out of the Tests and any activity Grantee conducted on Grantor's Property during the Option Period. Grantor shall make all claims for indemnification under this Section 5 within one (1) year of expiration or termination of the Option and be deemed to have waived any such claim not made within the one (1)-year period.

6. **Delivery of Easement Agreement; Easement Fee and Possession.** If Grantee exercises the Option by delivering the Exercise Notice to Grantor, Grantee and Grantor shall execute the Easement Agreement and finalize the easement transaction within fifteen (15) business days of Grantor's receipt of the Exercise Notice (the "**Closing Date**"). The Parties intend to exchange the Easement Agreement, other executed documents identified below and the Easement Fee through escrow with counsel for Grantee or Grantor or with the Title Company, with the "closing" of the easement transaction to be conducted by telephone. Grantor shall execute and/or deliver to Grantee such normal transaction documents and other materials as may reasonably be required by the Grantee or the Title Company including the following: (i) three (3) originals of the executed Easement Agreement, subject to modification to (a) include the legal descriptions of the Easements prepared from the Survey and (b) comply with the laws, rules and regulations of the state or municipal governmental unit in which Grantor's Property is located, (ii) a certificate stating that the Grantor is not a "foreign person" as defined in the federal Foreign Investment in Real Land Tax Act of 1980, and the 1984 Tax Reform Act, as amended, in a form reasonably acceptable to Grantee, (iii) any reasonable and customary affidavits required by, and satisfactory to, the Title Company, including a standard mechanics' and material men's lien affidavit in the form required by the Title Company so that an easement owner's title insurance policy may be issued free and clear of the standard exceptions which a title company is permitted to remove or modify upon delivery of such affidavits, (iv) documents evidencing that each of the persons executing and delivering the Easement Agreement and related documents on behalf of Grantor has the authority to execute and deliver such documents, (v) a non-disturbance and attornment agreement in favor of Grantee for any mortgage, deed of trust or similar document encumbering Grantor's Property, (vi) releases for monetary liens encumbering Grantor's Property, and (vi) a statement certifying that the representations made by Grantor in Section 4 are true and correct on the date the Easement is signed. Grantee shall sign three (3) originals of the executed Easement Agreement, any other documents required by the Title Company and pay the Easement Fee into escrow on the Closing Date. Grantee may take possession of the Easements upon completion of the transactions described in this Section 6.

7. **Transaction Costs.** Grantee shall pay for the preparation and recording of the Easement Agreement, all fees payable to the Title Company for the services requested by Grantee, its own counsel fees, and any brokerage commissions due by Grantee in connection with this transaction. Grantor shall pay any real estate excise or transfer taxes due in connection with the Easement Agreement, the costs associated with the release of any mortgages, liens or encumbrances against the Easements or Grantor's Property, its own counsel fees, and any brokerage commissions due by Grantor in connection with this transaction. The Parties will sign a settlement statement prepared by Grantee's counsel or the Title Company, and approved by Grantor, detailing the costs owed by each Party.

8. **Recording of Option for Easement.** Grantor and Grantee hereby agree, following the execution of this Agreement, to execute the Memorandum of Option, in substantially the form of Exhibit D attached hereto and incorporated herein by reference as modified to conform to the laws of the state in which the Grantor's Property is located. Grantee, at its sole expense, shall file the Memorandum of record in the county and state where the Grantor's Property is located.

9. **Non-competition.** From the Effective Date until the earlier to occur of (i) the termination of this Agreement and (ii) the signing of the Easement Agreement, Grantor shall not grant any interest in any portion of the Easements to any third party or grant any portion of Grantor's Property to a third party which intends to use Grantor's Property for telecommunications purposes or assign this Agreement to a

third party, without the prior written consent of Grantee in each instance, in Grantee's sole and absolute discretion.

10. **Broker/Grantor's Agent.** Grantor and Grantee each represent to the other that no real estate broker, commission agent or other person is entitled to any commission with respect to the transactions herein contemplated (collectively, "**Broker**"). Except with regard to a breach of Grantee's warranty set forth in this Section, Grantor hereby indemnifies and holds Grantee harmless from any loss, cost, damages and expenses arising out of a brokerage, commission, or fee due or alleged to be due in connection with this Agreement or the transactions contemplated hereby. Except with regard to a breach of Grantor's warranty set forth in this Section, Grantee hereby indemnifies and holds Grantor harmless from any loss, cost, damage and expense arising out of a brokerage commission or fee due or alleged to be due arising out of breach of Grantee's warranty set forth in this Section. The foregoing representations and warranties shall survive signing of the Easement Agreement.

11. **Remedies of Grantor.** In the event of Grantee's default under this Agreement, Grantor agrees to provide Grantee with written notice specifying the nature of such default. Grantee shall have 30 days from the date of receipt of said notice to cure said default. In the event Grantee does not cure such default within such 30 day period, and provided that Grantor has fully performed all of its obligations hereunder, then Grantor may terminate this Agreement and pursue the remedies set forth in the following paragraph of this Section.

Grantee and Grantor acknowledge that it would be extremely impracticable and difficult to ascertain the actual damages that would be suffered by Grantor if Grantee fails to exercise the Option (for any reason other than Grantor's breach of the terms hereof). Grantee and Grantor have carefully considered such damages and have agreed that the Option Fee, collectively, is a reasonable estimate of such damage. If Grantor has performed its covenants and agreements hereunder, but Grantee has breached its covenants and agreements hereunder and has failed, refused or is unable to exercise the Option, then Grantor shall retain the Option Fee as full and complete liquidated damages, and no party to this Agreement shall have any liability to any other party to this Agreement, and this Agreement shall, in its entirety, be deemed of no further force and effect.

12. **Remedies of Grantee.** Grantor and Grantee acknowledge and agree that the extent of damages in the event of the breach of any provision of this Agreement by Grantor would be difficult or impossible to ascertain, and that in such circumstance there will be available no adequate remedy at law in the event of any such breach. Therefore, if Grantor has breached any of its covenants and agreements under this Agreement or has otherwise failed, refused or is unable to consummate the transactions contemplated herein, then Grantee may, at its sole election: (i) terminate this Agreement and receive a full refund of the Option Fee, (ii) obtain specific performance plus the cost of obtaining specific performance, including reasonably attorneys' fees, without the need of posting an bond, or (iii) pursue any or all of its remedies at law and equity, including, but not limited to, monetary damages.

13. **Notices.** All notices required to be given by any of the provisions of this Agreement, unless otherwise stated, shall be in writing and delivered in person or by a national overnight delivery service (and shall be effective when received, when refused or when the same cannot be delivered) to the appropriate party at the address set forth above in the Preamble (or such other address as has been designated in writing by either party hereto).

14. **Assignability/Binding Effect.** This Agreement may be assigned by Grantee to any party. Grantor may not assign its rights or obligations under this Agreement, except with the written consent of Grantee, which consent may be granted or withheld in Grantee's sole discretion. If Grantor does assign this Agreement to a third party with the permission of Grantee, Grantor shall cause any such assignee to assume

this Agreement and the obligations under this Agreement. This Agreement is binding upon and inures to the benefit of the parties' respective heirs, personal representatives, successors, and assigns.

15. **Severability.** If any provision of this Agreement is deemed unenforceable in whole or in part, such provision shall be limited to the extent necessary to render the same valid or shall be excised from this Agreement, as circumstances require, and this Agreement shall be construed as if such provision had been so limited or as if such provision had not been included herein, as the case may be.

16. **Entire Understanding and Amendment.** This Agreement constitutes the entire understanding between the parties with regard to the subject matter hereof and there are no representations, inducements, conditions, or other provisions other than those expressed herein. This Agreement may not be modified, amended, altered or changed in any respect except by written agreement and signed by the party to be charged.

17. **Applicable Law.** This Agreement shall be governed by and construed in accordance with the laws of the state or commonwealth where Grantor's Property is located without regard to that state's conflicts of laws principles.

18. **Attorney's Fees.** In the event of any dispute arising hereunder or a breach by a party, if litigation is commenced, the prevailing party shall be entitled to recover from the other party all costs and expenses incurred in connection with such litigation, including, but not limited to, reasonable attorneys' fees and costs.

19. **Counterparts.** This Agreement may be executed in one or more counterparts, and by the different parties hereto in separate counterparts, each of which when executed shall be deemed to be an original but all of which taken together shall constitute one and the same agreement.

(Signature Pages Follow)

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed as of the dates written below.

GRANTEE:

APC TOWERS IV, LLC
a Delaware limited liability company

By: 

Name: Daniel C. Agresta III

Title: President & CEO

Date: 8/7/2025

GRANTOR:

TOMMY SHIRLEY

By (Sign): 

Name (Print): Tommy Shirley

Date: _____

GRANTOR:

KARA SHIRLEY

By (Sign): 

Name (Print): Kara Shirley

Date: 8.1.25

**EXHIBIT A
TO OPTION FOR EASEMENT AGREEMENT**

LEGAL DESCRIPTION OF GRANTOR'S PROPERTY

Situated in the County of Hart, Commonwealth of Kentucky:

Beginning at an iron pin set (all iron pins set are 1/2" rebar with red caps stamped "Hawkins 3894") in the East R/W (40' R/W per KYTC Project No. R.S. 50-460, dated 1952) of Wright Lane (KY Hwy 1391), said pin being at a corner common to the Weldon Cemetery (no deed found), approximately 475 feet north of the centerline of KY Hwy 728, near Bonnieville in Hart County, Kentucky; Thence with the East RJWN 06°35'55" E (Bearings are based on Kentucky State Plane Coordinates - South Zone 1602; NAD 83; NAVD 88; Geoid 12) 383.73 feet, to an iron pin set, N 06°26'15" E (Bearings are based on Kentucky State Plane Coordinates - South Zone 1602; NAD 83; NAVD 88; Geoid 12) 429.53 feet, and N 05°49'13" E 135.74 feet, to an iron pin set common to John Lee Frye (DB 269 PG 407); Thence with Frye running generally along a fence line N 88°08'47" E 796.52 feet, to an iron pin set common to Nicholas Brian Highbaugh and Kristi Nicole Highbaugh (DB 342 PG 435); Thence with Highbaugh running generally along a fence line S 03°59'54" E 597.94 feet, to an iron pin set, S 03°59'54" E 416.42 feet, to an iron pin found (1/2" rebar with cap, PLS 3644), and S 00°02'44" W 168.02 feet, to an iron pin set common to Richard N. and Martha Reynolds (DB197 PG 246); Thence with Reynolds running generally along a fence line N 86°20'51" W 723.93 feet, to an iron pin set common to Michael Harvey Bostic and Teresa Lynn Bostic (DB 341 PG 605) and common to Doris Lobb and Thomas and Ramona Lobb (DB 281 PG 450); Thence with Lobb and later the Weldon Cemetery running generally along a fence line N 04°10'00" E 137.64 feet, to an iron pin set; Thence continuing with the Weldon Cemetery running generally along a fence line N 83°55'28" W 261.72 feet, to the beginning. Said tract contains 22.529 acres as surveyed by Anderson Engineering and Land Surveying PLLC, Andrew T. Hawkins L.S. 3894 on April 10, 2025.

Tax ID: 040-00-00-121.00

Being The Same Property Conveyed To Tommy Shirley And Kara Shirley, Husband And Wife, Grantee, From Jacob Gingerich And Katie C. Gingerich, Husband And Wife, Grantor, By Deed Recorded 06/09/2025, In Book D388, Page 342, Of The Hart County Records.

**EXHIBIT B
TO OPTION FOR EASEMENT AGREEMENT**



Final description to be determined based on the Survey, to be obtained by Grantee and approved by Grantor .

EXHIBIT C
EASEMENT AGREEMENT
(Attached Hereto)

EASEMENT AGREEMENT

PREPARED BY,
AND WHEN RECORDED RETURN TO:

Talicia C. Neal
APC Towers IV, LLC
8601 Six Forks Road, Suite 250
Raleigh, NC 27615
(919) 324-1922

(Recorder's Use Above this Line)

STATE OF KENTUCKY

Premises Parcel No.: 04-00-00-108.00

COUNTY OF HART

THIS EASEMENT AGREEMENT ("**Agreement**") is made as of the latter signature date below ("**Effective Date**"), TOMMMY SHIRLEY AND KARA SHIRLEY, husband and wife, whose mailing address is 98 Wright Lane, Bonnieville, KY 42713 ("**Grantor**"), and APC TOWERS IV, LLC, a Delaware limited liability company, whose mailing address is 8601 Six Forks Road, Suite 250, Raleigh, NC 27615, Attention: Daniel C. Agresta III, President & CEO, Site Number: KY-4130 ("**Grantee**"). All references hereafter to Grantee and Grantor shall include their respective heirs, successors and assigns (Grantee and Grantor, collectively, "**Parties**").

RECITALS

A. Grantor is the owner of certain real property located at 98 Wright Lane, Bonnieville, KY 42713, also known as parcel number 04-00-00-108.00, as more particularly described on **Exhibit A** attached hereto and incorporated herein by reference (the "**Grantor's Property**").

B. Grantor desires to grant to Grantee, and Grantee desires to obtain from Grantor easements granting Grantee the right to use a portion of Grantor's Property for purpose of constructing, operating,

maintaining, repairing, replacing and removing a communications tower and certain related rights as set forth herein.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which Grantor and Grantee agree as follows:

1. Grant of Easement.

(a) Grantor grants, bargains, sells, transfers and conveys to Grantee:

(1) an exclusive easement in, to, under and over the portion of Grantor's Property substantially as shown and described on Exhibit B-1 ("**Communication Easement**") for the transmission and reception of any and all wireless communication signals and the construction, maintenance, repair, replacement, improvement, operation and removal of towers, antennas, buildings, fences, gates and related facilities (collectively, "**Facilities**") and any related activities and uses including those necessary for Grantee to comply with any obligations arising under any agreements with wireless service providers or other customers of Grantee, together with the right to enter Grantor's Property at any time, day or night, as may be required in connection with the foregoing activities and uses, and

(2) non-exclusive easements in, to, under and over portions of Grantor's Property substantially as shown and described on Exhibit B-2 for ingress and egress to and from the Communication Easement and a publicly dedicated roadway (the "**Access Easement**"); and utilities providing service to the Communication Easement and the Facilities ("**Utility Easement**"), and any related activities and uses. The Communication Easement, Access Easement and Utility Easement are collectively referred to as the "**Easements**".

(3) non-exclusive easements in, to, under and over portions of Grantor's Property for the development, installation, repair, replacement, improvement, maintenance and removal of guy wires and anchors as shown and described on Exhibit B-2 hereto (the "**Guy Wire Easement**"). The Communication Easement, Access Easement, Utility Easement and Guy Wire Easement are collectively referred to as the "**Easements**".

(b) The Parties agree that the Communication Easement includes, without limitation, (i) the portion of Grantor's Property available for use by wireless service providers, if any, and (ii) the portion of Grantor's Property upon which any Facilities are located, if any on the Effective Date.

2. Use of Easements. Grantee may use the Easement for the uses described in Section 1 above. In addition, Grantee shall have the unrestricted right to lease, license, transfer or assign, in whole or in part, or permit the use of the Easements and/or its rights under this Agreement, by any third parties including communication service providers or tower owners or operators, and any lessee or licensee under any existing agreements and the affiliates, agents, contractors, invitees and employees of Grantee and/or Grantee's present or future lessees or licensees (collectively, "**Customers**").

3. Term. The term of this Agreement ("**Term**") is ninety-nine years, beginning on beginning on the Effective Date, and expiring as of midnight on the day prior to the ninety-ninth (99th) anniversary of the Effective Date.

4. Easement Fee. Grantee shall pay Grantor a one-time fee in the amount set forth on Schedule 1 attached hereto and made a part hereof ("**Fee**"). The Fee is due and payable on the Fee Payment Date. The "**Fee Payment Date**" is the earlier of (i) the Effective Date or (ii) the date Grantor and Grantee finalize the

transactions resulting in this Agreement pursuant to Section 6 of the Option for Easement Agreement dated August 7, 2025. Grantee's failure to remit payment for the Fee pursuant to this paragraph shall be deemed to be a default under this Agreement.

5. Termination. This Agreement may not be terminated by Grantor. In addition to other termination rights contained in this Agreement, this Agreement may be terminated by Grantee, upon 30 days' prior written notice to Grantor. Upon termination, Grantor and Grantee shall execute and record such documents reasonably required to terminate the Easements.

6. Improvements; Utilities. Grantee and its Customers, may, at their discretion and expense, construct such improvements in, to, under and over the Easements, consistent with the uses specified in Sections 1 and 2, all of which shall be deemed part of the Facilities. The Facilities shall remain the property of Grantee and its Customers, as applicable, and Grantor shall possess no right, title or interest therein. In the event that utilities necessary to serve the Facilities cannot be installed within the Easements, Grantor agrees to cooperate with Grantee and to act reasonably and in good faith in granting Grantee the right to locate such utilities on Grantor's Property without requiring the payment of additional fees. If necessary, Grantor shall, upon Grantee's request, execute and record a separate written easement with Grantee or with the utility company providing the utility service to reflect such right. Grantor agrees to cooperate with Grantee in obtaining, at Grantee's expense, all licenses and permits required for Grantee's and Grantee's Customers' use of the Easements and Grantor hereby irrevocably constitutes and appoints Grantee as its true and lawful attorney-in-fact, with full power of substitution and resubstitution, to apply for and obtain any and all licenses, permits, consents or approvals which may be required in connection with the use of the Easements by Grantee, in the name of Grantor or Grantee, as necessary to comply with applicable laws, statutes or regulations.

7. Taxes. Grantor shall pay, on or before the due date, all present and future real property taxes, transfer taxes, penalties, interest, roll-back or additional taxes, sales and use taxes and all other fees and assessments (the "**Taxes**") attributable to Grantor's Property, this Agreement, and the Easements regardless of the party to whom such Taxes are billed. Grantee shall reimburse Grantor in full for any property taxes assessed against Grantor but attributed to the Facilities within thirty (30) days of Grantor's request for such reimbursement, provided that such request is accompanied by documentation reasonably supporting such request. Within ten (10) days of receiving a request from Grantee, Grantor shall furnish to Grantee a copy of each bill for any such Taxes and evidence of Grantor's payment of such bill. If Grantor fails to pay any Taxes when due, Grantee shall have the right, but not the obligation, to pay such Taxes on behalf of Grantor. Grantor shall reimburse Grantee for the full amount of such Taxes paid by Grantee on Grantor's behalf within five (5) business days of Grantor's receipt of an invoice from Grantee.

8. Environmental Covenants and Indemnity. Grantor represents that it has not permitted or engaged in the use of, and has no knowledge of, any substance, chemical or waste (collectively "**Hazardous Substance**") located on, under or about Grantor's Property that is identified as hazardous, toxic or dangerous in any applicable federal, state or local law or regulation. No underground storage tanks for petroleum or any other Hazardous Substance, or underground piping or conduits, are or have previously been located on Grantor's Property, and no asbestos-containing insulation or products containing PCB or other Hazardous Substances have been placed anywhere on Grantor's Property by Grantor or, to Grantor's knowledge, by any prior owner or user of Grantor's Property. Neither Grantor nor Grantee will introduce or use any such Hazardous Substance on, under or about Grantor's Property in violation of any applicable law or regulation. Grantor and Grantee shall each defend, indemnify, protect and hold the other party harmless from and against all claims, costs, fines, judgments and liabilities, including attorney's fees and costs, arising out of or in connection with the presence, storage, use or disposal of any Hazardous Substance on, under or about Grantor's Property caused by the acts, omissions or negligence of the indemnifying party

and their respective agents, contractors and employees. The foregoing indemnity shall survive any termination of this Agreement.

9. General Indemnity. In addition to the Environmental Indemnity set forth above, Grantor and Grantee each indemnify, defend and hold the other harmless against any and all costs (including reasonable attorney's fees) and claims of liability or loss arising (i) due to the breach of any representation, warranty or covenant of such indemnifying party set forth herein; and (ii) out of the use and/or occupancy of Grantor's Property and Easements by the indemnifying party. This indemnity shall not apply to any claims to the extent arising from the gross negligence or intentional misconduct of the indemnified party.

10. Secured Parties. Grantee has the unrestricted right to assign, mortgage or grant a security interest in all of Grantee's interest in and to this Agreement and the Easements, and may assign this Agreement and the Easements to any such assignees, mortgagees or holders of security interests, including their successors and assigns ("Secured Party" or, collectively, "Secured Parties"), without the consent of Grantor. Grantor agrees to notify Grantee and Secured Parties simultaneously of any default by Grantee and give Secured Parties the same right to cure any default. If a termination, disaffirmation or rejection of this Agreement by Grantee shall occur, pursuant to any laws (including any bankruptcy or insolvency laws), or if Grantor shall terminate this Agreement for any reason, Grantor will notify Secured Parties promptly and Grantor shall enter into a new easement agreement with any such Secured Party upon the same terms of this Agreement, without requiring the payment of any additional fees. If any Secured Party shall succeed to Grantee's interest under this Agreement, such Secured Party shall have no liability for any defaults of Grantee accruing prior to the date that such Secured Party succeeds to such interest. Grantor will enter into modifications of this Agreement reasonably requested by any Secured Party. Grantor hereby waives any and all lien rights it may have, statutory or otherwise, in and to the Easements and/or the Facilities or any portion thereof. Grantor acknowledges that Secured Parties are third-party beneficiaries of this Agreement.

11. Assignment. Grantee may assign or transfer this Agreement and all or any part of the Easements without the prior consent of Grantor. Upon assignment, Grantee shall be relieved of all liabilities and obligations under this Agreement, provided that the recipient of such assignment agrees to be bound by the terms of this Agreement. Grantee shall also have the right to lease or sublet the Easement Premises without the prior consent of Grantor.

12. Casualty and Condemnation. If, prior to the expiration of the Term, all or any material portion of Grantor's Property is damaged or destroyed by fire or other casualty, or taken by governmental authority, Grantee may, in its sole discretion, terminate this Agreement upon written notice to Grantor. If Grantee does not elect to exercise its option to terminate this Agreement as aforesaid, this Agreement shall remain in full force and effect. In the event of any condemnation of the Easements in whole or in part, Grantee shall be entitled to file claims against the condemning authority for, and to receive the value of the portion of Grantor's Property so taken on which the Easements are located, business dislocation expenses and any other award or compensation to which Grantee may be legally entitled. Grantor hereby assigns to Grantee any such claims and agrees that any claims made by Grantor will not reduce the claims made by Grantee. Grantee shall be entitled to receive any insurance proceeds or condemnation award attributable to Grantee's personal property and its interest in this Agreement and the Easements throughout the term of this Agreement. Grantor shall not settle or compromise any insurance claim or condemnation award relating to the Easement without Grantee's prior written approval, which shall not be unreasonably withheld.

13. Covenant Running with the Land. The provisions of and covenants contained in this Agreement shall run with the land and shall bind and inure to the benefit of the Parties and their respective successors, heirs and assigns.

14. Dispute Resolution.

(a) If Grantee fails to perform any of its obligations under this Agreement, Grantor agrees to notify Grantee and any Secured Parties in writing, and to give Grantee and/or any Secured Parties the right to cure any such default within a period of not less than sixty (60) days from Grantee's receipt of the written default notice. If Grantee or any Secured Parties shall fail to cure any default in accordance with this Section, Grantor agrees that its sole remedy for such default shall be to utilize the process set forth herein, and that any and all damages for which Grantor may be compensated is limited to the actual damages of Grantor, which shall in no event exceed the amount of consideration paid by Grantee for this Agreement. If any dispute or claim arises that could impair the use or possession of the Facilities by Grantee or its Customers, Grantee shall have the right to seek injunctive relief, without the necessity of posting a bond. In no event will a Secured Party have any obligation to cure a default by Grantee.

(b) Except as set forth in Section 14(a), in the event of any dispute arising out of this Agreement, the following dispute resolution process shall be followed: (1) upon a party's written notice of dispute to the other party, an authorized representative of the Grantor and Grantee shall, through a good faith negotiation, attempt to settle a written resolution within thirty (30) days and (2) if such negotiation attempts fail, the dispute may be submitted by either party to a court having jurisdiction over such dispute and shall be entitled to pursue any and all legal and equitable rights and remedies permitted by applicable law, subject to the terms of this Agreement.

15. Notices. All notices, requests, demands and other communications hereunder shall be in writing and shall be deemed given one (1) day after posting with a nationally recognized overnight courier service, or the earlier of receipt or ten (10) days after posting by registered or certified mail, return receipt requested, to the addresses of Grantor and Grantee set forth in the first paragraph of this Agreement. Either party may change its notice address by providing a new recipient name and address by notice as set forth in this paragraph.

16. Right of First Refusal. In the event Grantor shall receive a bona fide offer from a third party to purchase or if Grantor intends to communicate to a third party an offer to sell, (a) all or any portion of the Easements, (b) any adjoining or adjacent property subject to an Easement hereunder or (c) this Agreement or any rights hereunder including the right to receive rent (in each case, the "Sale Assets"), Grantor shall first communicate the terms of such offer to Grantee, provide a copy of the bona fide offer to Grantee and offer to sell such property to Grantee upon the same terms and conditions, including any financing terms. Grantee shall have thirty (30) days from receipt of said notice from Grantor to accept said offer in writing. If Grantee accepts Grantor's offer within thirty (30) days, Grantor shall be bound to sell the Sale Assets to Grantee, and Grantee shall be bound to purchase the Sale Assets from Grantor, in accordance with the bona fide offer. If Grantee purchases the Sale Assets pursuant to this paragraph, any easements granted from Grantor to Grantee shall become permanent easements without further consideration. If Grantee fails to exercise such right of first refusal within the stated time, Grantor may sell the Sale Assets subject to any and all terms and conditions of this Agreement; provided, however, that if the terms of sale change and if Grantor has not sold or transferred title to such property within ninety (90) days of the date of Grantor's written notice to Grantee, any such sale and transfer of title shall again be subject to Grantee's said right of first refusal. Grantee's right of first refusal shall continue in effect as to any subsequent proposed sale by the current Grantor or by any transferee.

17. Exclusivity. Grantor shall not grant any interest in any portion of the Easements to any third party nor grant any portion of Grantor's Property to a third party which intends to use Grantor's Property for telecommunications purposes, without the prior written consent of Grantee, in Grantee's sole and absolute discretion.

18. Miscellaneous. (a) This Agreement and all Exhibits attached hereto constitute the entire agreement and understanding of Grantor and Grantee with respect to the subject matter of this Agreement, and supersedes all offers, negotiations and any other written or verbal agreements, including the Option for Easement Agreement between Grantor and Grantee (except for the indemnity obligations relating to brokers which shall survive); (b) any amendments to this Agreement must be in writing and executed by both parties; (c) this Agreement is governed by the laws of the State in which Grantor's Property is located; (d) if any term of this Agreement is found to be void or invalid, such provision shall be fully severable herefrom and such invalidity shall not affect the remaining terms of this Agreement, which shall continue in full force and effect, and this Agreement shall be reformed and construed as if such invalid provision had never been contained herein, and if possible, such provision shall be reformed to the maximum extent permitted under applicable law to render same valid, operative and enforceable to reflect the intent of the Parties as expressed herein; (e) the paragraph headings of this Agreement have been inserted for convenience of reference only, and shall in no way modify or restrict the terms of this Agreement; (f) Grantor acknowledges that Grantee has not provided any legal or tax advice to Grantor in connection with the execution of this instrument; and (g) this Agreement may be executed in any number of counterparts, each of which shall, when executed, be deemed to be an original and all of which shall be deemed to be one and the same instrument.

19. Maintenance and Access. Grantor agrees to be solely responsible for the maintenance of Grantor's Property. Grantor agrees to provide Grantee and its Customers access to and from the Easements consistent with the grant of the Easements set forth in Section 1 above, twenty-four (24) hours a day, seven (7) days a week.

20. Estoppel, Non-Disturbance and Attornment. Grantor agrees, from time to time, upon not less than 10 days prior written notice from Grantee, to execute and deliver to Grantee a written estoppel certificate certifying that as of the date of the certification: (i) this Agreement is a valid enforceable agreement, presently in full force and effect; (ii) whether Grantor has any knowledge of any default or breach by Grantee under any of the terms, conditions, or covenants of this Agreement; (iii) the Term (its commencement and termination dates) and the term of any option or renewal periods granted to Grantee to extend the Term; (iv) the amount of the then-current Fees payable under this Agreement; or with respect to the Easements under a separate agreement, (v) attached to the certification is a true and correct copy of the Agreement and all amendments thereto, (vi) and such other facts as Grantee or its prospective mortgagee or purchaser may request. Grantor shall obtain for Grantee from the holder of any mortgage and deed of trust now or hereafter encumbering Grantor's Property a subordination and non-disturbance agreement in a form provided upon request by Grantee, providing that so long as Grantee is not in default under this Agreement, its rights as holder of the Easements hereunder shall not be terminated and its access to and possession of Grantor's Property shall not be disturbed by the mortgagee or trustee, or by any proceedings on the debt which any such mortgage or deed of trust secures, and that any sale at foreclosure shall be subject to this Agreement.

21. Recording. An original of this Agreement will be placed of record, at Grantee's cost, in the county and state where the Grantor's Property is located, after removing Schedule 1.

(Signature Pages Follow)

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date last written below.

GRANTOR:

TOMMY SHIRLEY

By (Sign): *Tommy Shirley*
Name (Print): Tommy Shirley
Date: 8-1-25

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

GRANTOR ACKNOWLEDGMENT

STATE OF Kentucky
COUNTY OF Grayson

On the 01 day of August in the year 2025, before me, the undersigned, personally appeared Tommy Shirley, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.



Cecily Richards
Cecily Richards, Notary Public
My Commission Expires: 2/6/26

GRANTOR:

KARA SHIRLEY

By (Sign): Kara Shirley
Name (Print): Kara Shirley
Date: 8.1.25

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

GRANTOR ACKNOWLEDGMENT

STATE OF Kentucky
COUNTY OF Grayson

On the 01 day of August in the year 2025, before me, the undersigned, personally appeared Kara Shirley, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.



Cecily Richards
Cecily Richards, Notary Public
My Commission Expires: 2/6/26

GRANTEE:

APC TOWERS IV, LLC,
a Delaware limited liability company

By: 

Name: Daniel C. Agresta III

Title: President & CEO

Date: 8/7/2025

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

GRANTEE ACKNOWLEDGMENT

STATE OF NORTH CAROLINA

COUNTY OF WAKE

I, Talicia C. Neal, a Notary Public of Wake County, North Carolina, certify that Daniel C. Agresta III personally came before me this day and acknowledged that he is the President & CEO of APC TOWERS IV, LLC, and that he, as President & CEO, being authorized to do so, executed the foregoing on behalf of APC TOWERS IV, LLC.

Witness my hand and official seal this the 7th day of August, 2025.





Talicia C. Neal, Notary Public

My Commission Expires: April 12, 2028.

EXHIBIT A

LEGAL DESCRIPTION OF GRANTOR'S PROPERTY

Situated in the County of Hart, Commonwealth of Kentucky:

Beginning at an iron pin set (all iron pins set are 1/2" rebar with red caps stamped "Hawkins 3894") in the East R/W (40' R/W per KYTC Project No. R.S. 50-460, dated 1952) of Wright Lane (KY Hwy 1391), said pin being at a corner common to the Weldon Cemetery (no deed found), approximately 475 feet north of the centerline of KY Hwy 728, near Bonnieville in Hart County, Kentucky; Thence with the East RJWN 06°35'55" E (Bearings are based on Kentucky State Plane Coordinates - South Zone 1602; NAD 83; NAVD 88; Geoid 12) 383.73 feet, to an iron pin set, N 06°26'15" E (Bearings are based on Kentucky State Plane Coordinates - South Zone 1602; NAD 83; NAVD 88; Geoid 12) 429.53 feet, and N 05°49'13" E 135.74 feet, to an iron pin set common to John Lee Frye (DB 269 PG 407); Thence with Frye running generally along a fence line N 88°08'47" E 796.52 feet, to an iron pin set common to Nicholas Brian Highbaugh and Kristi Nicole Highbaugh (DB 342 PG 435); Thence with Highbaugh running generally along a fence line S 03°59'54" E 597.94 feet, to an iron pin set, S 03°59'54" E 416.42 feet, to an iron pin found (1/2" rebar with cap, PLS 3644), and S 00°02'44" W 168.02 feet, to an iron pin set common to Richard N. and Martha Reynolds (DB197 PG 246); Thence with Reynolds running generally along a fence line N 86°20'51" W 723.93 feet, to an iron pin set common to Michael Harvey Bostic and Teresa Lynn Bostic (DB 341 PG 605) and common to Doris Lobb and Thomas and Ramona Lobb (DB 281 PG 450); Thence with Lobb and later the Weldon Cemetery running generally along a fence line N 04°10'00" E 137.64 feet, to an iron pin set; Thence continuing with the Weldon Cemetery running generally along a fence line N 83°55'28" W 261.72 feet, to the beginning. Said tract contains 22.529 acres as surveyed by Anderson Engineering and Land Surveying PLLC, Andrew T. Hawkins L.S. 3894 on April 10, 2025.

Tax ID: 040-00-00-121.00

Being The Same Property Conveyed To Tommy Shirley And Kara Shirley, Husband And Wife, Grantee, From Jacob Gingerich And Katie C. Gingerich, Husband And Wife, Grantor, By Deed Recorded 06/09/2025, In Book D388, Page 342, Of The Hart County Records.

EXHIBIT B-1

COMMUNICATION EASEMENT

That portion of Grantor's Property on which any Facilities (other than those located within any Utility Easements, Access Easements or Guy Wire Easements) exist on the date of this Agreement, and that portion of Grantor's Property described as follows:



Final description to be determined based on the Survey, to be obtained by Grantee and approved by Grantor .

EXHIBIT B-2

ACCESS AND UTILITY EASEMENTS

That portion of Grantor's Property on which any Facilities exist on the date of this Agreement for access and utility providers, including the following:



Final description to be determined based on the Survey, to be obtained by Grantee and approved by Grantor .

SCHEDULE 1

EASEMENT FEE

A one-time payment of One Hundred Fifty Thousand and 00/100 Dollars (\$150,000.00).

EXHIBIT D

MEMORANDUM OF OPTION FOR EASEMENT

(Attached Hereto)

MEMORANDUM OF OPTION FOR EASEMENT

PREPARED BY
AND WHEN RECORDED MAIL TO:

Talicia C. Neal
APC Towers IV, LLC
8601 Six Forks Road, Suite 250
Raleigh, NC 27615
(919) 324-1922

(space above for Recorder's use only)

THIS MEMORANDUM OF OPTION FOR EASEMENT ("**Memorandum**"), made and entered as of the latter signature date hereto ("**Effective Date**"), by and between TOMMMY SHIRLEY AND KARA SHIRLEY, husband and wife, whose mailing address is 98 Wright Lane, Bonnieville, KY 42713 ("**Grantor**"), and APC TOWERS IV, LLC, a Delaware limited liability company, whose mailing address is 8601 Six Forks Road, Suite 250, Raleigh, NC 27615, Attention: Daniel C. Agresta III, President & CEO, Site Number: KY-4130 ("**Grantee**"), is a record of that certain Option for Easement Agreement ("**Agreement**") between Grantor and Grantee dated as of August 7, 2025, which Agreement contains, among other things, the following terms:

1. Description of Option. In the Agreement Grantor grants Grantee the exclusive option to obtain exclusive and non-exclusive easements pertaining to a portion of Grantor's certain real property (the "**Grantor's Property**"). Grantor's Property is described in Exhibit A attached to this Memorandum.
2. Option Term. The term of the option granted in the Agreement is eighteen (18) months from the date of the Agreement, subject to Grantee's right to extend the option term for up to one (1) additional eighteen (18)-month period.
3. Easements. If Grantee exercises said option and acquires the Easements from Grantor, the terms and conditions of the granting of the Easements will be contained in an easement agreement, which will be duly recorded.

4. Ratification of Agreement. By this Memorandum, the parties intend to record a reference to the Agreement and do hereby ratify and confirm all of the terms and conditions of the Agreement and declare that the Easements are subject to all of the applicable provisions of the Agreement.

(Signature Pages Follow)

IN WITNESS WHEREOF, Grantor and Grantee have executed this Memorandum as of the date first above written.

GRANTOR:

TOMMY SHIRLEY

By (Sign): Tommy Shirley
Name (Print): Tommy Shirley
Date: 8-1-25

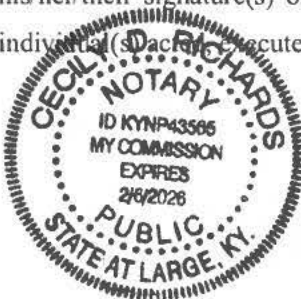
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

GRANTOR ACKNOWLEDGMENT

STATE OF Kentucky

COUNTY OF Grayson

On the 01 day of August in the year 2025, before me, the undersigned, personally appeared Tommy Shirley, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) executed the instrument.



Cecily Richards
Cecily Richards, Notary Public
My Commission Expires: 2/6/26

GRANTOR:

KARA SHIRLEY

By (Sign): Kara Shirley
Name (Print): Kara Shirley
Date: 8.1.25

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

GRANTOR ACKNOWLEDGMENT

STATE OF Kentucky

COUNTY OF Grayson

On the 01 day of August in the year 2025, before me, the undersigned, personally appeared Kara Shirley, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.



Cecily Richards
Cecily Richards Notary Public
My Commission Expires: 2/6/2026

GRANTEE:

APC TOWERS IV, LLC,
a Delaware limited liability company

By: 

Name: Daniel C. Agresta III

Title: President & CEO

Date: 8/7/2025

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

GRANTEE ACKNOWLEDGMENT

STATE OF NORTH CAROLINA

COUNTY OF WAKE

I, Talicia C. Neal, a Notary Public of Wake County, North Carolina, certify that Daniel C. Agresta III personally came before me this day and acknowledged that he is the President & CEO of APC TOWERS IV, LLC, and that he, as President & CEO, being authorized to do so, executed the foregoing on behalf of APC TOWERS IV, LLC.

Witness my hand and official seal this the 7th day of August, 2025.





Talicia C. Neal, Notary Public

My Commission Expires: April 12, 2028.

EXHIBIT A TO MEMORANDUM OF OPTION FOR EASEMENT



LEGAL DESCRIPTION OF GRANTOR'S PROPERTY

Situated in the County of Hart, Commonwealth of Kentucky:

Beginning at an iron pin set (all iron pins set are 1/2" rebar with red caps stamped "Hawkins 3894") in the East R/W (40' R/W per KYTC Project No. R.S. 50-460, dated 1952) of Wright Lane (KY Hwy 1391), said pin being at a corner common to the Weldon Cemetery (no deed found), approximately 475 feet north of the centerline of KY Hwy 728, near Bonnieville in Hart County, Kentucky; Thence with the East RJWN 06°35'55" E (Bearings are based on Kentucky State Plane Coordinates - South Zone 1602; NAD 83; NAVD 88; Geoid 12) 383.73 feet, to an iron pin set, N 06°26'15" E (Bearings are based on Kentucky State Plane Coordinates - South Zone 1602; NAD 83; NAVD 88; Geoid 12) 429.53 feet, and N 05°49'13" E 135.74 feet, to an iron pin set common to John Lee Frye (DB 269 PG 407); Thence with Frye running generally along a fence line N 88°08'47" E 796.52 feet, to an iron pin set common to Nicholas Brian Highbaugh and Kristi Nicole Highbaugh (DB 342 PG 435); Thence with Highbaugh running generally along a fence line S 03°59'54" E 597.94 feet, to an iron pin set, S 03°59'54" E 416.42 feet, to an iron pin found (1/2" rebar with cap, PLS 3644), and S 00°02'44" W 168.02 feet, to an iron pin set common to Richard N. and Martha Reynolds (DB197 PG 246); Thence with Reynolds running generally along a fence line N 86°20'51" W 723.93 feet, to an iron pin set common to Michael Harvey Bostic and Teresa Lynn Bostic (DB 341 PG 605) and common to Doris Lobb and Thomas and Ramona Lobb (DB 281 PG 450); Thence with Lobb and later the Weldon Cemetery running generally along a fence line N 04°10'00" E 137.64 feet, to an iron pin set; Thence continuing with the Weldon Cemetery running generally along a fence line N 83°55'28" W 261.72 feet, to the beginning. Said tract contains 22.529 acres as surveyed by Anderson Engineering and Land Surveying PLLC, Andrew T. Hawkins L.S. 3894 on April 10, 2025.

Tax ID: 040-00-00-121.00

Being The Same Property Conveyed To Tommy Shirley And Kara Shirley, Husband And Wife, Grantee, From Jacob Gingerich And Katie C. Gingerich, Husband And Wife, Grantor, By Deed Recorded 06/09/2025, In Book D388, Page 342, Of The Hart County Records.

040-00-00-122.00	Weldon Cemetery	Wright Ln	Bonnieville	KY	42713	<div><div><div><div><div></div><div>Hart County, KY PVA</div></div><div><div>Layers</div><div>Map</div><div>Search</div><div>Results</div><div>Report</div><div>Sales Search</div><div>Sales List</div><div>Sales Results</div><div>Tax Estimator</div><div>More</div></div><div><div>search...</div><div>q</div></div></div><div><div>Summary</div><div><div>Parcel Number</div><div>040-00-00-122.00</div></div><div><div>Account Number</div><div>75283</div></div><div><div>Location Address</div><div>WRIGHT LN WELDON CEMETERY WRIGHT LN (Note: Not to be used on legal documents)</div></div><div><div>Class</div><div>EXEMPT RELIGIOUS (96)</div></div><div><div>Tax District</div><div>01-County</div></div><div><div>Rate Per Thousand</div><div>N/A</div></div><div>View Map</div></div><div><div>Ownership</div><div><div>WELDON CEMETERY</div><div>WRIGHT LN</div><div>BONNIEVILLE, KY 42713</div></div></div></div></div>
040-00-00-014.00	Michael & Teresa Bostic	1092 Priceville Rd	Bonnieville	KY	42713	<div><div><div><div><div></div><div>Hart County, KY PVA</div></div><div><div>Layers</div><div>Map</div><div>Search</div><div>Results</div><div>Report</div><div>Sales Search</div><div>Sales List</div><div>Sales Results</div><div>Tax Estimator</div><div>More</div></div><div><div>search...</div><div>q</div></div></div><div><div>Summary</div><div><div>Parcel Number</div><div>040-00-00-014.00</div></div><div><div>Account Number</div><div>3283</div></div><div><div>Location Address</div><div>1092 PRICEVILLE RD H & 2 1/2 AC 1092 PRICEVILLE RD (Note: Not to be used on legal documents)</div></div><div><div>Class</div><div>RESIDENTIAL (10)</div></div><div><div>Tax District</div><div>01-County</div></div><div><div>Rate Per Thousand</div><div>N/A</div></div><div>View Map</div></div><div><div>Ownership</div><div><div>BOSTIC MICHAEL & TERESA</div><div>1092 PRICEVILLE RD</div><div>BONNIEVILLE, KY 42713</div></div></div></div></div>



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

November 17, 2025

**Notice of Proposed Construction of
Wireless Communications Facility
Site Name: Bonnieville**

Cellco Partnership, d/b/a Verizon Wireless and APC Towers propose to construct a wireless communications facility on a site located at 98 Wright Lane; Bonnieville KY 42713 (North Latitude: (37° 23' 02.97"), West Longitude (85° 55' 15.16"). The proposed facility will include a 245-foot-tall guyed tower, plus a 5-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

This notice is being sent to you because the County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous 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 PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, PO Box 615, Frankfort Kentucky 40602. Please refer to docket number 2025-00369 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. Co-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,

A handwritten signature in black ink, appearing to read 'R. Brown', written over a horizontal line.

Russell L. Brown
Attorney for Applicant

RLB/jmc
Enclosure

LOCATION MAPS



ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP

CERTIFIED MAIL®



9589 0710 5270 1450 3425 56

Tommy & Kara Shirley
1627 Millerstown Road
Upton, KY 42784

FIRST-CLASS



US POSTAGESM PITNEY BOWES



ZIP 46204 \$ 010.44⁰
02 7H
0006035028 NOV 17 2025

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE
CERTIFIED MAIL®



9589 0710 5270 1450 3425 63

John Lee Frye
202 Wright Lane
Bonnieville, KY 42713

FIRST-CLASS



US POSTAGESM PITNEY BOWES



ZIP 46204 \$ 010.44⁰
02 7H
0006035028 NOV 17 2025

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE
CERTIFIED MAIL®



9589 0710 5270 1450 3425 70

Andrew Jenkins
223 Byrtle Grove Road
Leitchfield, KY 42754

FIRST-CLASS



US POSTAGESM PITNEY BOWES



ZIP 46204 \$ 010.44⁰
02 7H
0006035028 NOV 17 2025

ClarkQuinn
ark, Quinn, Moses, Scott & Grahn, LLP



Weldon Cemetery
Wright Lane
Bonnieville, KY 42713

FIRST-CLASS



ClarkQuinn
ark, Quinn, Moses, Scott & Grahn, LLP



Michael & Teresa Bostic
1092 Priceville Road
Bonnieville, KY 42713

FIRST-CLASS



ClarkQuinn
ark, Quinn, Moses, Scott & Grahn, LLP



Richard N & Martha Reynolds
1034 Priceville Road
Bonnieville, KY 42713

FIRST-CLASS



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Clark, Quinn, Moses, Scott & Grahn, LLP

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

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9589 0710 5270 1450 3426 17

Eric Ford
1261 Houseman Town Road
Bainbridge, OH 45612

FIRST-CLASS



US POSTAGETM PITNEY BOWES

ZIP 46204 \$ 010.44⁰
02 7H
0006035028 NOV 17 2025

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

CERTIFIED MAIL®



9589 0710 5270 1450 3426 24

Nicholas B & Krist N Highbaugh
480 Wright Lane
Bonnieville, KY 42713

FIRST-CLASS



US POSTAGETM PITNEY BOWES

ZIP 46204 \$ 010.44⁰
02 7H
0006035028 NOV 17 2025

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:

Andrew Jenkins
223 Byrle Grove Road
Leitchfield, KY 42754



9590 9402 9112 4225 4776 73

2. Article Number (Transfer from service label)

9589 0710 5270 1450 3425 70

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

Andrew Jenkins

C. Date of Delivery

11-22-25

- 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
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

☐ 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:

Nicholas B & Krist N Highbaugh
480 Wright Lane
Bonnieville, UT 84713



9590 9402 9112 4225 4776 28

2. Article Number (Transfer from service label)

9589 0710 5270 1450 3426 20

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

Morgan Atwell

C. Date of Delivery

11-20-25

- 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
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

☐ 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:

Richard N & Martha Reynolds
1034 Priceville Road
Bonnieville, KY 42713



9590 9402 9112 4225 4776 42

2. Article Number (Transfer from service label)

9589 0710 5270 1450 3426 00

COMPLETE THIS SECTION ON DELIVERY

A. Signature

☒ *Martha Reynolds* ☐ Agent
☐ Addressee

B. Received by (Printed Name)

Martha Reynolds

C. Date of Delivery

8/1-25-20

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 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"/> Mail Restricted Delivery (00) | |

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:

Eric Ford
1261 Houseman Town Road
Bainbridge, OH 45612



9590 9402 9112 4225 4776 35

2. Article Number (Transfer from service label)

9589 0710 5270 1450 3426 17

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Eric Ford*

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

Eric Ford

C. Date of Delivery

12-25

- 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 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"/> 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:

Michael & Teresa Bostic
1092 Priceville Road
Bonnieville, KY 42713



9590 9402 9112 4225 4776 59

2. Article Number (Transfer from service label)

9589 0710 5270 1450 3425 94

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Teresa Bostic

☐ Agent☒ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

☐ Adult Signature☐ Adult Signature Restricted Delivery☐ Certified Mail®☐ Certified Mail Restricted Delivery☐ Collect on Delivery☐ Collect on Delivery Restricted Delivery☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Signature Confirmation™☐ Signature Confirmation Restricted Delivery

Mail

Mail Restricted Delivery

(00)

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

Tracking Number:

Remove X

9589071052701450342556

Copy Add to Informed Delivery (<https://informedelivery.usps.com/>)

Latest Update

Your item was delivered to an individual at the address at 11:15 am on November 20, 2025 in UPTON, KY 42784.

Get More Out of USPS Tracking:

USPS Tracking Plus[®]

Delivered

Delivered, Left with Individual

UPTON, KY 42784
November 20, 2025, 11:15 am

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>)

Feedback

Text & Email Updates



USPS Tracking Plus[®]



Product Information



See Less ^

Track Another Package

Enter tracking or barcode numbers

Need More Help?

Contact USPS Tracking support for further assistance.

FAQs

Tracking Number:

Remove X

9589071052701450342587

Copy Add to Informed Delivery (<https://informedelivery.usps.com/>)

Latest Update

Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

Get More Out of USPS Tracking:

USPS Tracking Plus[®]

Moving Through Network
In Transit to Next Facility

November 28, 2025

Insufficient Address

BONNIEVILLE, KY 42713
November 20, 2025, 7:08 am

See All Tracking History

Feedback

[What Do USPS Tracking Statuses Mean?](https://faq.usps.com/s/article/Where-is-my-package) (<https://faq.usps.com/s/article/Where-is-my-package>)

Text & Email Updates



USPS Tracking Plus[®]



Product Information



See Less ^

Track Another Package

Enter tracking or barcode numbers

Need More Help?

Contact USPS Tracking support for further assistance.

FAQs

Tracking Number:

Remove X

9589071052701450342563

Copy Add to Informed Delivery (<https://informedelivery.usps.com/>)

Latest Update

Your item was returned to the sender on December 8, 2025 at 5:17 am in LOUISVILLE, KY 40231 because the addressee moved and left no forwarding address.

Get More Out of USPS Tracking:

USPS Tracking Plus®

Alert

Moved, Left no Address
LOUISVILLE, KY 40231
December 8, 2025, 5:17 am

Arrived at Post Office
LOUISVILLE, KY 40231
December 8, 2025, 5:03 am

See All Tracking History

Feedback

[What Do USPS Tracking Statuses Mean? \(https://faq.usps.com/s/article/Where-is-my-package\)](https://faq.usps.com/s/article/Where-is-my-package)

Text & Email Updates



USPS Tracking Plus®



Product Information



See Less ^

Track Another Package

Enter tracking or barcode numbers

Need More Help?

Contact USPS Tracking support for further assistance.

FAQs



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

November 17, 2025

Via Certified Mail, Return Receipt Requested
9589 0710 5270 1450 3425 49

Hon. Joe Choate
Hart County Judge Executive
PO Box 490
Munfordville KY 42765

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2025-00369
Site Name: Bonnieville


Dear Judge Marcum:

APC Towers IV, LLC and Cellco Partnership, d/b/a Verizon Wireless propose to construct a wireless communications facility on a site located at 98 Wright Lane; Bonnieville KY 42713 (North Latitude: (37° 23' 02.97"), West Longitude (85° 55' 15.16"). The proposed facility will include a 245-foot-tall, guyed tower, plus a 5-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area..

You have a right to submit comments to the PSC or request intervention in the PSC's proceedings on the application. You may contact the PSC at: Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2025-00369 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 the wireless customers in the area. Please feel free to contact us with any comments or questions you may have.

Sincerely,


Russell L. Brown
Attorney for Applicant

LOCATION MAPS



ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

CERTIFIED MAIL®



9589 0710 5270 1450 3425 49

Hon. Joe Choate
Hart County Judge Executive
PO Box 490
Munfordville KY 42765

FIRST-CLASS



US POSTAGE INR PITNEY BOWES

ZIP 46204
02 7H
0006035028

\$ 010.44⁰

NOV 17 2025

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:

Hon. Joe Choate
Hart County Judge Executive
PO Box 490
Munfordville KY 42765



9590 9402 9112 4225 4777 03

2. Article Number (Transfer from service label)

9589 0710 5270 1450 3425 49

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

☒ *Sharon Goldsmith* ☐ Agent
☐ Addressee

B. Received by (Printed Name)

Sharon Goldsmith

C. Date of Delivery

11-20-25

- 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 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"/> Mail Restricted Delivery (00) | |

Domestic Return Receipt

SITE NAME: BONNIEVILLE 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.

APC Towers IV, LLC and Cellco Partnership, d/b/a Verizon Wireless proposes to construct a telecommunications **tower** on this site. If you have questions, please contact Clark, Quinn, Moses, Scott & Grahn, LLP, 320 N. Meridian Street, Indianapolis, IN 46204; 317-637-1321, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2025-00369 in your correspondence.

APC Towers IV, LLC and Cellco Partnership, d/b/a Verizon Wireless proposes to construct a telecommunications **tower** on this site. If you have questions, please contact Clark, Quinn, Moses, Scott & Grahn, LLP, 320 N. Meridian Street, Indianapolis, IN 46204; 317-637-1321, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2025-00369 in your correspondence.

Jobe Publishing Inc.

P.O. Box 546
Cave City, KY 42127
270-786-2676

We accept all major credit cards.

Invoice

Date	Invoice #
11/30/2025	35306

Bill To
Clark Quinn Moses, Scott & Grahn LLP 320 N Meridian St Indianapolis, IN 46204

APC TOWERS IV, LLC - CK BONNIEVILLE
KY 4130

PUBLIC NOTICE
PSC No. 2025-00369

P.O. No.	Terms	Project
	Net 30	

Quantity	Description	Rate	Amount
	Hart Co News Herald 11/27/25 7: ad (Cellco/Verizon Wireless/Bonnieville)	63.00	63.00
		Total	\$63.00

AFFIDAVIT

This is to certify that the 27 day of November,
2025 an ad for Celco Partnership
dba Verizon Wireless & APC IV, LLC
was published in the regular edition of the Hart County
News Herald, a newspaper published for general
circulation in the City of Bonnieville, Hart
County and adjoining counties.

Pam Wright

COMMONWEALTH OF KENTUCKY

County of Hart

The foregoing was subscribed and sworn to before me by _____
Pam Wright on this 27 day of November
_____ in 2025.

Lesia Logan

Notary Public, Kentucky, State-At-Large

My commission expires: 02-09-27



ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP

Robert B. Scott
Charles R. Grahn
Frank D. Otte*
John "Bart" Herriman
William W. Gooden**
Russell L. Brown**[†]
Travis W. Cochran
Michael P. Maxwell
Keith L. Beall
John M. Mead
Jennifer E. Perry
Clark P. Kirkman
Kristin A. McKinney
Olivia A. Hess

VIA EMAIL: news@russellcountynewspapers.com
jcrabtree@jpinews.com

Hart County News Herald
570 S Dixie Street
Horse Cave KY 42749

Land Use Consultants
Elizabeth Bentz Williams, AICP
Joseph M. Csikos, AICP

RE: Legal Notice Advertisement
Site Name: Bonnieville

To Whom It May Concern,

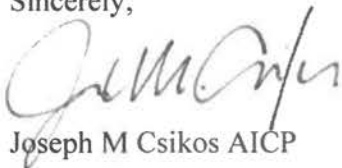
Please publish the following legal notice advertisement in the next available edition of The Hart County News Herald serving Hart County, KY:

NOTICE

Cellco Partnership, d/b/a Verizon Wireless and APC Towers IV, LLC are filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 98 Wright Ln; Bonnieville KY 42713. (North Latitude: (37° 232' 02.97", West Longitude 85° 55' 15.16"). The proposed facility will include a 245-foot tall antenna tower, plus a 5-foot lightning arrestor and related ground facilities. Site name is Bonnieville. 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 2025-00369 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 jcsikos@clarkquinnlaw.com. Please call me on with any questions at 317-637-1321 extension 319 if you have any questions. Thank you for your assistance.

Sincerely,

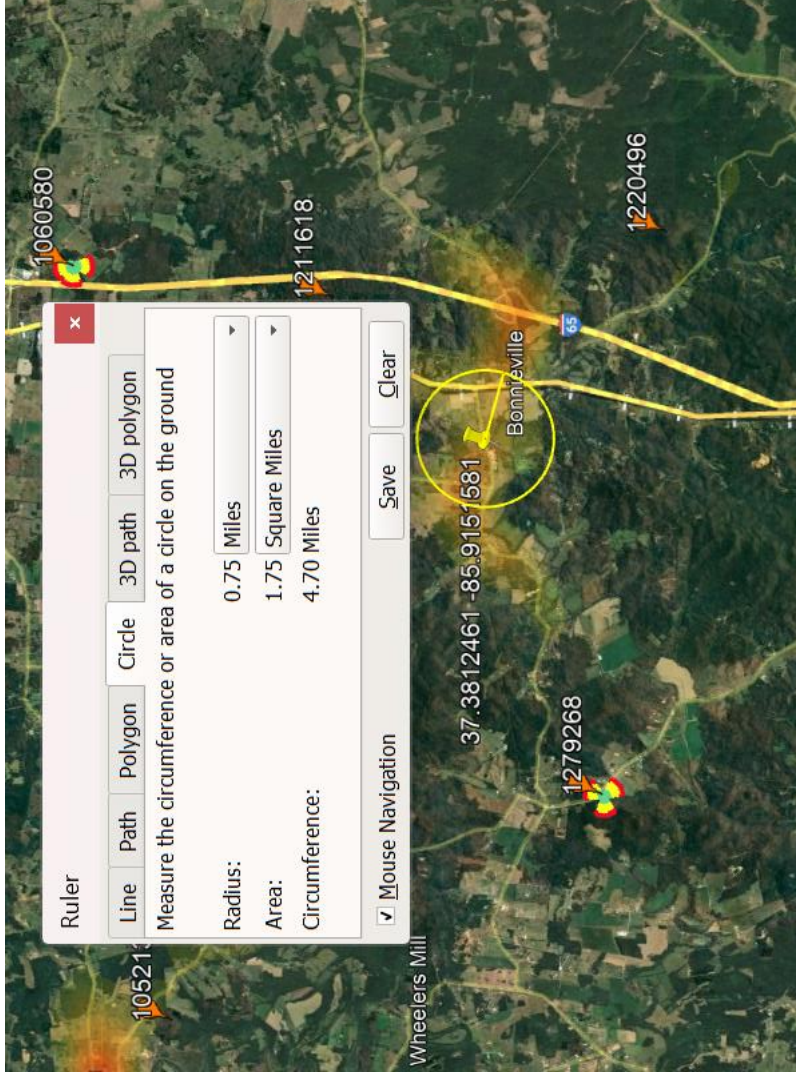


Joseph M Csikos AICP

CK Bonnieville

- Project # 17494106
- Macro NB capacity offload for CK Munfordville Alpha Sub 1
- There are no ASR towers nearby

ATOLL Market :	SARF
SR Name :	LOUISVILLE
Granite Locale :	CK Bonnieville
Address :	INDIANA
City :	635 PRICEVILLE
State :	BONNIEVILLE
County :	KENTUCKY
Zipcode :	Hart
Latitude :	42713
Longitude :	37.3812461
Radius :	-85.9151581
Centerline(ft.) :	0.75
Sectors :	240.0
	3





October 16th 2025

Re: Radiofrequency Justification for Proposed Wireless Communications Facility for Cellco Partnership d/b/a Verizon Wireless ("Verizon")

Tower Developer and Owner: APC Towers LLC
Facility Site Name: CK Bonnieville
Type of Tower: Guyed Tower
Tower Height: 245 ft.
Location: 126 Wright Lane, Bonnieville, KY 42713

To Whom It May Concern:

As a radio frequency engineer for Verizon, I am providing this letter to state the need for a proposed Verizon wireless communications site called "CK Bonnieville".

The CK Bonnieville site is proposed to meet the following objectives:

1. To offload excess traffic from existing Verizon sites in this area that are operating at or near capacity.
2. To improve service in the city of Bonnieville.

Currently Verizon customers are experiencing poor service in the city of Bonnieville and the immediately surrounding area ("Gap Area") because there is a high demand for wireless service and high-speed data there and Verizon's network cannot keep up with that demand. Simply put, Verizon's existing communications sites in and around the Gap Area are over capacity and therefore they cannot sufficiently handle the traffic. The new proposed tower is needed to offload this excess traffic so that Verizon can provide critical service improvements to its customers in the area, including first responders, residents, and businesses.

When Verizon identifies the need for a new site in an area, its design engineers establish search area criteria in order to effectively meet specific coverage objectives as well as offload existing Verizon cell sites that can no longer meet service demands. These criteria are used to identify a "Search Area" in which the new tower would need to be located to meet the coverage and capacity objectives. The proposed tower is also designed to provide a single solution that decreases the chances that a second tower will be needed in the immediate area in the near future. Each wireless communications 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 service throughout the coverage area.

Verizon cares about the communities it serves and prefers to collocate on existing structures when feasible. Collocation typically involves lower construction costs, faster deployment, and environment protection. For these reasons, Verizon 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 or raise a system capacity overload concern.

Here, Verizon is currently collocated on several existing towers in the areas surrounding the Search Area. However, there are no existing structures within the Search Area on which Verizon could collocate to meet its coverage and capacity objectives in the Gap Area. For this reason, Verizon worked with APC Towers LLC to identify a site in the Search Area on which a new tower could be built that would meet the stated objectives. The proposed new tower, located at 126 Wright Lane, Bonnieville, KY 42713, will be built near the center of the Search Area. Both the proposed location and height of the tower are designed to meet the stated objectives with a single tower. Specifically, the tower will have an overall tower height of 245' with Verizon's equipment installed at a centerline of 240'. This centerline is the minimum height necessary to allow Verizon to be able to adequately cover the Gap Area and to offload traffic from the nearby existing Verizon sites that are currently overloaded. If Verizon is limited to installing its equipment at a centerline that is lower than the proposed height, another tower would be needed in the vicinity in the near future in order to provide the additional coverage and capacity offload that is needed in the Gap Area.

If APC Towers LLC is unable to build the proposed site and therefore Verizon is unable to collocate its equipment on it at a centerline of 240', Verizon will be prohibited from serving its customers in the Gap Area.

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,

A handwritten signature in black ink, appearing to read 'S. Belcher', with a long horizontal flourish extending to the right.

Steven Belcher
Sr. RF Engineer
Verizon Wireless



October 16th, 2025

RE: Zoning Plots

Site Name: CK Bonnieville

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 "Steve Belcher", with a stylized flourish at the end.

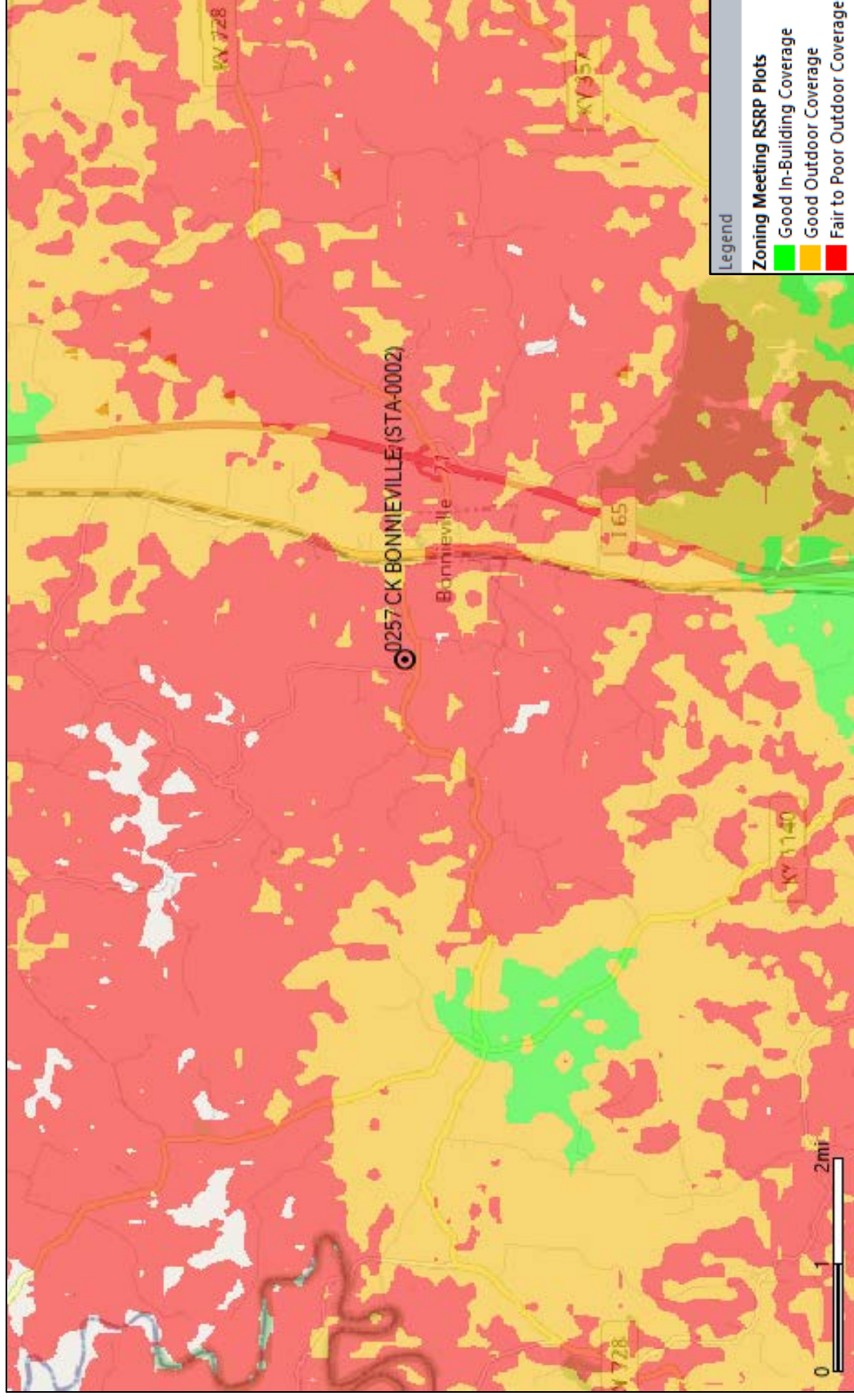
Steven Belcher

Sr RF Engineer

Verizon Wireless



Current Coverage – Without Proposed Site CK Bonnieville





Proposed Coverage – With Proposed Site CK Bonnieville

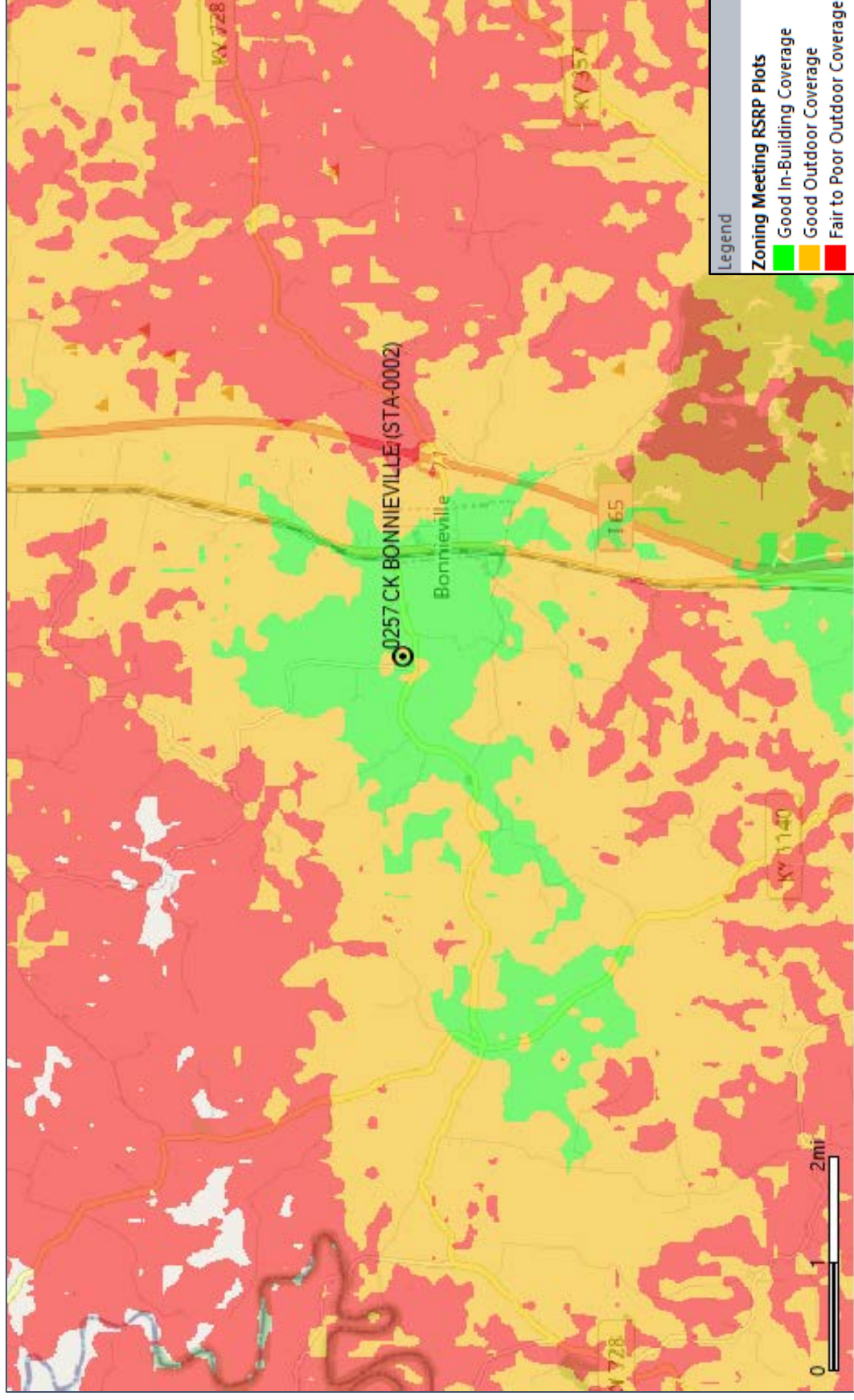


Exhibit 3
List and Identity and Qualifications of Professionals

Stephen E. Hunt
Professional Engineer
Kentucky License 25003
TeleCad Communications
1961 Northpoint Blvd. Suite 130
Hixson, TX, 37343

Travis L. Shields
Professional Land Surveyor
Kentucky License 4246
The Land Consultants, LLC
5449 Highway 41
Jasper, TN 37347

Andrew T. Hawkins
Professional Land Surveyor
Kentucky License 3894
Anderson Engineering and Land Surveying,
PLLC
12753 Cub Run Hwy
Cub Run KY 42729

Thomas T. Wilson
Professional Engineer
Kentucky License 40975
Sabre Industries
7101 Southbridge Drive
P.O. Box 658
Sioux City, IA 51102-0658

Brad R Milanowski
Professional Engineer
Kentucky License 25311
B+T Grp
1717 S Boulder Ave #300
Tulsa OK 74119

Jorge Varela
Professional Engineer
Kentucky License 24429
Engineered Tower Solutions, PLLC
3227 Wellington Ct.
Raleigh, NC 27615

Jay Parker
VP of Construction
APC Towers
8601 Six Forks Rd, Suite 250
Raleigh NC 27615

Steven Belcher
Sr. 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 and APC Towers IV, LLC 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
and APC Towers IV, LLC

STATE OF INDIANA)
) SS:
COUNTY OF MARION)

Subscribed and sworn to before me this 10th day of December, 2025.



Notary Public

Printed Name of Notary: Joseph M. Csikos

My Commission Expires: August 5, 2033

My County of Residence: Johnson

Commission No. NP0765036

