COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS AND TOWERCO 2013, LLC FOR ISSUANCE OF A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY TO CONSTRUCT A WIRELESS COMMUNICATIONS FACILITY IN THE COMMONWEALTH OF KENTUCKY IN THE COUNTY OF CUMBERLAND	)))))))))	CASE NO. 2024-00363

SITE NAME: HENDRICKS CREEK RELO

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

Cellco Partnership, d/b/a Verizon Wireless and TowerCo 2013, LLC ("Co-Applicants"), by counsel, pursuant to (i) KRS §§278.020, 278.040, 278.650, 278.665, and other statutory authority, and the rules and regulations applicable thereto, and (ii) the Telecommunications Act of 1996, respectfully submit this Application requesting issuance of a Certificate of Public Convenience and Necessity ("CPCN") from the Kentucky Public Service Commission ("PSC") to construct, maintain, and operate a Wireless Communications Facility ("WCF") to serve the customers of the Co-Applicant with wireless communications services.

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

1. The complete name and address of the Co-Applicants:

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

b. TowerCo 2013, LLC, having a local address of 5000 Valleystone Drive, Cary, NC 27519

2. Co-Applicants:

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

b. TowerCo 2013, 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**.

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

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

5. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve the Co-Applicant's services to an area

currently not served or not adequately served by the Co-Applicants by increasing coverage or capacity and thereby enhancing the public's access to innovative and competitive wireless communications services. A statement from Co-Applicant's RF Design Engineer outlining said need is attached as **Exhibit Q** along with Propagation Maps attached as **Exhibit R**. The WCF is an integral link in the Applicant's network design that must be in place to provide adequate coverage to the service area.

6. To address the above-described service needs, Co-Applicants propose to construct a WCF located at 1407 Cherry Tree Road, Burkesville, KY 42717 (North Latitude: (36° 38' 15.80", West Longitude 88° 21' 46.33"), 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 Frank A. Brendel, Jr. and Patricia H. Brendel pursuant to a Deed recorded in Deed Book 169, Page 581 in the office of the County Clerk. The proposed WCF will consist of a 197-foot tall monopole tower, with an approximately 2-foot tall lightning arrestor attached at the top, for a total height of 199-feet.

It should be noted that this proposed tower will replace the existing temporary tower located adjacent, on the same property. Once the proposed tower is constructed and operating, the temporary tower will be decommissioned and removed from the site.

The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of the Co-Applicant's radio electronics equipment and appurtenant equipment. The Co-Applicant's equipment cabinet or shelter will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The WCF compound will be fenced and all access gate(s) will be secured. A description of the manner in which the proposed WCF will be constructed is attached as **Exhibit C** and **Exhibit D**.

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

8. The site development plan and a vertical profile sketch of the WCF signed and sealed by a professional engineer registered in Kentucky depicting the tower height, as well as a proposed configuration for the antennas of the Co-Applicant has also been included as part of **Exhibit C**.

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

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

11. A copy of the Application for Federal Aviation Administration's ("FAA") review is attached as **Exhibit F.** The proposed total height of the tower at 199 feet. A copy of the approval will be provided as soon as received.

12. A copy of the documentation from Kentucky Airport Zoning Commission ("KAZC") indicating that a permit is not required is attached as **Exhibit G**.

13. A geotechnical engineering report was performed at the WCF site by Terragon Consultants, Inc. 13050 Eastgate Park Way, Louisville, KY 4022, dated March 24, 2017 and is attached as **Exhibit H**. While the report references a tower height of 240', the shorter proposed tower of 199' will not negate the accuracy of the soils report. 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 Caleb McVey 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 21057C0240D, Dated September 19, 2012.

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 Cumberland County PVA on November 12, 2024. **Exhibit C** also identifies every structure and every easement within 500 feet of the proposed tower or within 200 feet of the access road including intersection with the public street system.

20. Co-Applicants have sent certified notices to 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 copy of the form of the notice sent by certified mail to each landowner on November 13, 2024, is attached as **Exhibit L-1**. Seven (7) notices were sent to surrounding property owners; as January 8, 2025 six (6) notice green cards had been returned. USPS tracking indicated the remaining notice was “moving though the system”. New notice was sent to the owner, whose November 13, 2024 notice was been identified “as working through the system” on January 8, 2025. USPS now indicates that the notice was

delivered January 15, 2024 and a copy of the form of notice is attached as **Exhibit L-2**. Copies of the mailed envelopes, returned green cards and USPS tracking are included in **Exhibit L-1 and Exhibit L-2**. All notices have been delivered.

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 Cumberland County, Kentucky. The site is located at 1407 Cherry Tree Road, Burkesville, KY 42717. The area is buffered by a treed area on all sides of the site. The area is wooded with a few single family homes in the general area. The terrain is hilly. There is no zoning or Plan Commission in this area of Cumberland County. The proposed facility is removed a significant distance from any residential structures. The nearest residential structure is 536 feet from the proposed tower site.

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

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

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

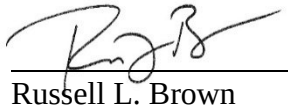
28. All Exhibits to this Application are hereby incorporated by reference as if fully set out as part of the Application.

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

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

WHEREFORE, Co-Applicants respectfully request that the PSC accept the foregoing Application for filing and, having met the requirements of KRS §§278.020(1), 278.650, and 278 .665 and all applicable rules and regulations of the PSC, grant a Certificate of Public Convenience and Necessity to construct and operate the WCF at the location set forth herein.

Respectfully submitted,



Russell L. Brown
Clark, Quinn, Moses, Scott & Grahn, LLP
320 North Meridian Street, Suite 1100
Indianapolis, IN 46204
Phone: (317) 637-1321 / FAX: (317) 687-2344
Email: rbrown@clarkquinnlaw.com
Attorney for Cellco Partnership d/b/a Verizon Wireless

LIST OF EXHIBITS

A	Applicant Entities
B	FCC Registration and License Documentation
C	Site Development Plan: 500' Vicinity Map Flood Plain Certification Site Plan Vertical Tower Profile
C-1	Lease Boundary and Legal Description
D	Tower and Foundation Design
E	Competing Utilities List and Map
F	FAA Application and Determination of No Hazard
G	KAZC Application Documentation
H	Geotechnical Report
I	Directions to WCF Site
J	Real Estate Agreement
K	Notification Listing with PVA Verification
L-1	April 25 Property Owner Notification
L-2	May 30 Property Owner Notification
M	County Judge/Executive notice
N	Posted Notices
O	Newspaper Legal Notice Advertisement
P	Radio Frequency Design Search Area
Q	RF Design Engineer Statement of Need
R	Propagation Maps
S	List of Qualified Professionals
T	Affidavit of Certification

Delaware

The First State

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

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

3341134 8300

Authentication: 203227418

SR# 20231665976

Date: 04-27-23

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

COMMONWEALTH OF KENTUCKY

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.

COMMONWEALTH OF KENTUCKY
OFFICE OF SECRETARY OF STATE

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]

- [ ] a Domestic General Partnership
- [ ] a Domestic Registered Limited Liability Partnership
- [ ] a Domestic Limited Partnership
- [ ] a Domestic Business Trust
- [ ] a Domestic Corporation
- [ ] a Domestic Limited Liability Company
- [ ] a Joint Venture
- [x] a Foreign General Partnership
- [ ] a Foreign Registered Limited Liability Partnership
- [ ] a Foreign Limited Partnership
- [ ] a Foreign Business Trust
- [ ] a Foreign Corporation
- [ ] a Foreign Limited Liability Company

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

One Verizon Way	Basking Ridge	NJ	07920
Street address, if any	City	State	Zip Code

The certificate of assumed name is executed by

NYNEX PCS Inc.

Jane A. Schapker

Signature

Jane A. Schapker-Assistant Secretary

Print or type name and title

June 15, 2006

Date

Signature

Print or type name and title

Date

SSC-228 (7/98) (See attached sheet for instructions)

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, 7th Floor Walnut Creek, CA 94597
JV PartnerCo, LLC	2999 Oak Road, 7th Floor Walnut Creek, CA 94597

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: 297432
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,

TOWERCO 2013 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 June 12, 2013.

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 15th day of September, 2023, in the 232nd year of the Commonwealth.

Michael G. Adams
Secretary of State
Commonwealth of Kentucky
297432/0859822

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "TOWERCO 2013 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 TWENTY-SEVENTH DAY OF SEPTEMBER, A.D. 2023.

AND I DO HEREBY FURTHER CERTIFY THAT THE SAID "TOWERCO 2013 LLC" WAS FORMED ON THE THIRD DAY OF OCTOBER, A.D. 2012.

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

5222115 8300

Authentication: 204256340

SR# 20233593958

Date: 09-27-23

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

Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
KNKN814	0009262182
Radio Service CL - Cellular	
Market Numer CMA447	**Channel Block** B
Sub-Market Designator 0	

FCC Registration Number (FRN): 0003290673

Market Name
Kentucky 5 - Barren

Grant Date	Effective Date	Expiration Date	Five Yr Build-Out Date	Print Date
09-01-2020	01-13-2021	10-01-2030		

Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
1	37-06-37.0 N	085-58-40.0 W	320.0	82.3	1205611

Address: Prewitt's Knob, 4.8 km WSW of
City: CAVE CITY **County:** BARREN **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	177.600	194.100	184.800	162.400	189.800	184.600	178.000	165.400
Transmitting ERP (watts)	116.290	30.310	1.400	0.270	0.270	0.270	0.700	31.720

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	177.600	194.100	184.800	162.400	189.800	184.600	178.000	165.400
Transmitting ERP (watts)	0.710	17.400	93.440	120.380	32.400	3.090	0.300	0.340

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	177.600	194.100	184.800	162.400	189.800	184.600	178.000	165.400
Transmitting ERP (watts)	1.200	0.310	0.310	4.010	35.100	128.660	96.240	16.600

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

FCC 601-C
March 2018

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
2	37-03-16.0 N	085-05-15.0 W	335.3	66.4	1060800

Address: 1.6 km WNW of intersec. of Cumberland Pkwy & US Hwy 127
City: RUSSELL SPRINGS **County:** RUSSELL **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	111.300	101.700	102.100	123.200	116.700	113.000	135.800	103.700
Transmitting ERP (watts)	157.100	105.670	17.850	1.800	0.480	4.050	25.570	109.870

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	111.300	101.700	102.100	123.200	116.700	113.000	135.800	103.700
Transmitting ERP (watts)	7.280	10.650	18.520	10.350	23.010	5.410	0.740	1.090

Antenna: 4
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	113.000	101.700	102.100	123.200	116.700	113.000	135.800	103.700
Transmitting ERP (watts)	4.030	0.340	2.430	11.890	72.190	167.790	144.670	35.900

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
3	37-19-27.0 N	085-55-08.0 W	288.0	82.3	1043058

Address: DIVIDING RIDGE; 5.6 km NNW of
City: MUNFORDVILLE **County:** HART **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	124.200	120.700	125.700	160.200	151.900	137.900	133.400	146.300
Transmitting ERP (watts)	91.350	124.410	70.660	14.380	1.420	0.610	6.040	27.050

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	124.200	120.700	125.700	160.200	151.900	137.900	133.400	146.300
Transmitting ERP (watts)	1.140	6.890	50.200	154.120	159.580	51.140	6.200	0.410

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	124.200	120.700	125.700	160.200	151.900	137.900	133.400	146.300
Transmitting ERP (watts)	27.250	2.690	0.340	1.880	14.510	77.820	164.920	130.790

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
4	36-58-37.0 N	085-53-48.0 W	267.0	128.9	1202695

Address: Temple Hill Road, 6.7 mi southeast of Glasgow Municipal Airport
City: GLASGOW **County:** BARREN **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	113.000	94.500	72.300	103.400	109.800	145.800	136.400	121.300
Transmitting ERP (watts)	74.230	41.180	7.090	0.410	0.310	0.390	7.600	43.080

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	165.400	147.000	124.700	155.800	162.300	198.300	188.800	173.800
Transmitting ERP (watts)	1.760	14.820	66.340	80.440	26.520	3.020	0.330	0.270

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	113.000	94.500	72.300	103.400	109.800	145.800	136.400	121.300
Transmitting ERP (watts)	1.270	0.300	0.410	2.910	34.430	104.650	82.670	15.310

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
5	36-53-50.0 N	084-57-27.0 W	294.1	128.0	1200492

Address: Lake Cumberland,11.3 km NW of
City: MONTICELLO **County:** WAYNE **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	120.400	125.800	96.900	52.400	95.800	123.100	148.300	129.500
Transmitting ERP (watts)	90.910	34.180	4.210	0.270	0.310	1.110	14.630	66.270

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	120.400	125.800	96.900	52.400	95.800	123.100	148.300	129.500
Transmitting ERP (watts)	0.830	14.810	83.280	102.460	28.880	2.520	0.320	0.260

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	120.400	125.800	96.900	52.400	95.800	123.100	148.300	129.500
Transmitting ERP (watts)	3.460	0.270	1.950	8.860	44.980	98.820	85.200	24.700

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
6	36-59-41.0 N	085-33-38.0 W	310.0	128.0	1043059

Address: Hickory Ridge

City: Edmonton **County:** METCALFE **State:** KY C**onstruction Deadline:**

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	**0**	**45**	**90**	**135**	**180**	**225**	**270**	**315**
Antenna Height AAT (meters)	158.100	156.900	114.200	137.500	150.900	131.600	139.600	152.400
Transmitting ERP (watts)	81.690	152.110	56.510	6.340	0.340	0.360	0.450	11.810

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	**0**	**45**	**90**	**135**	**180**	**225**	**270**	**315**
Antenna Height AAT (meters)	158.100	156.900	114.200	137.500	150.900	131.600	139.600	152.400
Transmitting ERP (watts)	0.370	0.580	15.570	95.970	145.260	45.940	4.810	0.340

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	**0**	**45**	**90**	**135**	**180**	**225**	**270**	**315**
Antenna Height AAT (meters)	158.100	156.900	114.200	137.500	150.900	131.600	139.600	152.400
Transmitting ERP (watts)	13.870	0.940	0.340	0.390	4.390	49.220	145.260	93.790

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
7	36-43-21.4 N	085-07-37.2 W	410.8	77.7	1239784

Address: On Mountain Lane

City: Albany **County:** CLINTON **State:** KY C**onstruction Deadline:**

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	**0**	**45**	**90**	**135**	**180**	**225**	**270**	**315**
Antenna Height AAT (meters)	224.400	172.000	96.100	151.900	211.500	206.300	193.800	200.600
Transmitting ERP (watts)	214.860	95.980	11.540	0.590	0.480	0.570	12.360	100.500

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	**0**	**45**	**90**	**135**	**180**	**225**	**270**	**315**
Antenna Height AAT (meters)	224.400	172.000	96.100	151.900	211.500	206.300	193.800	200.600
Transmitting ERP (watts)	1.150	28.320	152.110	195.960	52.740	5.040	0.480	0.550

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	**0**	**45**	**90**	**135**	**180**	**225**	**270**	**315**
Antenna Height AAT (meters)	224.400	172.000	96.100	151.900	211.500	206.300	193.800	200.600
Transmitting ERP (watts)	1.910	0.480	0.570	4.190	56.510	195.960	152.110	25.240

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
8	36-41-54.0 N	085-41-07.0 W	286.5	90.2	1065560

Address: 403 Martin Subdivision
City: Tompkinsville **County:** MONROE **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.200	93.700	157.900	97.200	83.000	115.700	100.900	88.500
Transmitting ERP (watts)	128.990	56.630	6.540	0.320	0.260	0.340	7.510	59.300

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.200	93.700	157.900	97.200	83.000	115.700	100.900	88.500
Transmitting ERP (watts)	0.690	16.910	90.270	116.960	30.240	2.840	0.260	0.330

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.200	93.700	157.900	97.200	83.000	115.700	100.900	88.500
Transmitting ERP (watts)	1.070	0.260	0.340	2.530	33.930	116.960	90.270	14.390

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
9	36-42-45.0 N	084-29-53.0 W	388.0	128.0	1043060

Address: 2.7 KM SOUTHWEST OF
City: Whitley City **County:** MCCREARY **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	115.300	140.200	111.300	77.100	88.000	150.900	147.400	183.900
Transmitting ERP (watts)	130.970	169.690	43.870	4.120	0.380	0.470	1.010	24.530

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	115.300	140.200	111.300	77.100	88.000	150.900	147.400	183.900
Transmitting ERP (watts)	0.500	3.670	49.220	169.690	130.970	20.880	1.560	0.380

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	115.300	140.200	111.300	77.100	88.000	150.900	147.400	183.900
Transmitting ERP (watts)	9.490	0.470	0.380	0.490	10.890	86.030	187.140	82.160

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
10	37-07-32.0 N	085-18-48.0 W	243.2	128.0	1043061

Address: 2.1 KM North of
City: COLUMBIA **County:** ADAIR **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.900	97.600	62.700	93.000	69.900	86.900	132.000	98.600
Transmitting ERP (watts)	239.640	126.580	20.700	2.100	0.480	2.050	17.500	119.190

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.900	97.600	62.700	93.000	69.900	86.900	132.000	98.600
Transmitting ERP (watts)	3.050	25.240	104.080	134.110	50.730	6.640	0.400	0.300

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.900	97.600	62.700	93.000	69.900	86.900	132.000	98.600
Transmitting ERP (watts)	3.170	0.300	0.350	6.140	45.530	132.880	110.500	28.320

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
11	36-47-11.0 N	085-23-02.0 W	261.5	96.0	1040490

Address: 0.8 KM WEST OF
City: BURKESVILLE **County:** CUMBERLAND **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	109.300	130.200	87.400	84.800	79.600	143.200	144.000	116.600
Transmitting ERP (watts)	44.180	161.980	121.160	20.900	1.520	0.390	0.390	5.050

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	109.300	130.200	87.400	84.800	79.600	143.200	144.000	116.600
Transmitting ERP (watts)	0.560	1.140	15.410	114.810	250.130	112.190	13.700	0.800

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	109.300	130.200	87.400	84.800	79.600	143.200	144.000	116.600
Transmitting ERP (watts)	42.590	4.040	0.390	0.390	2.230	22.340	121.440	153.980

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
12	36-59-14.9 N	085-04-03.0 W	300.2	77.4	1249806

Address: 263 N. Main St. (KY13172-A)

City: JAMESTOWN **County:** RUSSELL **State:** KY **Construction Deadline:**

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	57.700	75.100	111.400	128.200	123.100	114.300	81.000	84.000
Transmitting ERP (watts)	131.780	61.330	9.560	0.760	0.650	5.540	28.840	110.190

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	57.700	75.100	111.400	128.200	123.100	114.300	81.000	84.000
Transmitting ERP (watts)	6.950	33.550	98.830	109.490	46.690	7.510	0.630	0.950

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	57.700	75.100	111.400	128.200	123.100	114.300	81.000	84.000
Transmitting ERP (watts)	3.530	0.270	2.170	9.880	52.760	110.760	95.040	27.210

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
13	36-48-31.1 N	084-50-43.5 W	466.6	61.0	1004214

Address: 3.2 KM SSE OF

City: MONTICELLO **County:** WAYNE **State:** KY **Construction Deadline:**

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	228.300	178.600	196.200	196.600	182.100	180.800	223.600	233.200
Transmitting ERP (watts)	83.280	46.200	7.950	0.460	0.350	0.440	8.520	48.340

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	228.300	178.600	196.200	196.600	182.100	180.800	223.600	233.200
Transmitting ERP (watts)	1.990	19.910	108.240	137.240	37.950	3.600	0.350	0.340

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	228.300	178.600	196.200	196.600	182.100	180.800	223.600	233.200
Transmitting ERP (watts)	1.460	0.330	0.430	3.080	30.780	77.930	65.130	15.620

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
15	36-48-09.1 N	085-49-35.8 W	307.8	128.0	1215547

Address: Within the City Limits of
City: Mt. Hermon **County:** MONROE **State:** KY C**onstruction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	162.800	133.200	119.800	115.200	131.300	145.600	162.100	140.800
Transmitting ERP (watts)	232.350	122.730	20.070	2.030	0.470	1.980	16.970	115.570

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	162.800	133.200	119.800	115.200	131.300	145.600	162.100	140.800
Transmitting ERP (watts)	4.690	38.790	159.940	206.090	77.960	10.200	0.610	0.470

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	162.800	133.200	119.800	115.200	131.300	145.600	162.100	140.800
Transmitting ERP (watts)	3.360	0.320	0.370	6.500	48.220	140.750	117.050	30.000

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
16	37-11-42.5 N	085-57-13.0 W	267.6	99.1	1224165

Address: Highway 31 E
City: Horse Cave **County:** HART **State:** KY C**onstruction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	140.200	157.200	137.200	138.800	124.400	106.600	128.000	139.900
Transmitting ERP (watts)	70.890	131.990	49.040	5.500	0.300	0.310	0.390	10.250

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	140.200	157.200	137.200	138.800	124.400	106.600	128.000	139.900
Transmitting ERP (watts)	0.440	1.350	27.580	128.990	141.440	31.660	2.890	0.370

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	140.200	157.200	137.200	138.800	124.400	106.600	128.000	139.900
Transmitting ERP (watts)	12.040	0.810	0.300	0.340	3.810	42.710	126.050	81.390

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	36-53-08.5 N	086-01-21.5 W	219.5	77.7	1229912

Address: Barren River Lake, 1450 meters southeast of
City: Lucas **County:** BARREN **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.400	76.400	65.300	73.600	82.100	72.000	115.600	93.200
Transmitting ERP (watts)	64.900	199.280	206.330	66.120	8.020	0.530	1.470	8.910

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.400	76.400	65.300	73.600	82.100	72.000	115.600	93.200
Transmitting ERP (watts)	0.430	2.430	18.770	100.610	213.240	169.110	35.230	3.480

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.400	76.400	65.300	73.600	82.100	72.000	115.600	93.200
Transmitting ERP (watts)	115.020	18.140	1.460	0.580	6.420	36.290	153.840	208.960

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
18	37-04-08.3 N	084-59-07.6 W	301.8	58.0	

Address: Russell East, in the town of
City: Salem **County:** RUSSELL **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	81.400	40.400	50.100	92.000	90.100	70.500	49.200	57.100
Transmitting ERP (watts)	45.240	155.980	120.380	19.190	1.430	0.350	0.460	3.370

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	81.400	40.400	50.100	92.000	90.100	70.500	49.200	57.100
Transmitting ERP (watts)	0.350	0.450	10.100	79.080	172.010	75.520	8.720	0.430

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	81.400	40.400	50.100	92.000	90.100	70.500	49.200	57.100
Transmitting ERP (watts)	40.320	3.780	0.350	0.430	0.920	22.550	120.380	155.980

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
19	37-01-53.2 N	086-02-59.7 W	230.1	53.3	

Address: Barren West, 1.1 km SE of intersection of Route 255 and Cumberland Parkway
City: Bon Ayr **County:** BARREN **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	48.000	59.100	62.400	62.000	76.300	71.700	67.700	68.900
Transmitting ERP (watts)	10.930	71.760	174.250	150.580	36.510	3.930	0.360	2.010

Antenna: 4
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	48.000	59.100	62.400	62.000	76.300	71.700	67.700	68.900
Transmitting ERP (watts)	1.660	0.370	3.640	24.330	110.220	166.180	109.490	18.120

Antenna: 5
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	48.000	59.100	62.400	62.000	76.300	71.700	67.700	68.900
Transmitting ERP (watts)	241.800	133.090	20.990	1.690	0.670	7.430	41.990	187.010

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
20	36-59-57.9 N	085-42-14.4 W	304.8	38.1	

Address: Barren East, 1.5 km ESE of
City: Wisdom **County:** METCALFE **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	83.800	114.600	79.500	77.500	56.000	94.100	87.900	92.000
Transmitting ERP (watts)	182.210	79.990	9.240	0.460	0.370	0.480	10.610	83.760

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	83.800	114.600	79.500	77.500	56.000	94.100	87.900	92.000
Transmitting ERP (watts)	3.340	55.130	223.280	203.210	38.060	3.110	0.540	0.700

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	83.800	114.600	79.500	77.500	56.000	94.100	87.900	92.000
Transmitting ERP (watts)	2.970	0.370	0.470	1.480	30.120	143.340	153.910	33.100

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
21	36-52-38.0 N	085-39-59.1 W	347.5	42.4	

Address: 5 km east of
City: Summer Shade **County:** METCALFE **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	137.700	116.600	133.500	131.800	89.700	109.800	135.900	112.700
Transmitting ERP (watts)	182.210	79.990	9.240	0.460	0.370	0.480	10.610	83.760

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	137.700	116.600	133.500	131.800	89.700	109.800	135.900	112.700
Transmitting ERP (watts)	2.890	26.340	135.690	168.870	47.270	4.440	0.480	0.380

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	137.700	116.600	133.500	131.800	89.700	109.800	135.900	112.700
Transmitting ERP (watts)	1.520	0.370	0.480	3.570	47.930	165.220	127.520	20.330

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
22	37-04-40.6 N	085-10-27.6 W	299.0	86.9	1048811

Address: ADAIR EAST, 7955 RUSSELL SPRINGS ROAD
City: RUSSELL SPRINGS **County:** ADAIR **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	102.600	66.400	51.500	64.800	80.000	101.700	115.200	90.300
Transmitting ERP (watts)	112.350	104.850	19.980	1.660	0.300	0.350	1.660	27.580

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	102.600	66.400	51.500	64.800	80.000	101.700	115.200	90.300
Transmitting ERP (watts)	0.350	5.720	51.470	125.910	71.710	11.750	0.560	0.300

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	102.600	66.400	51.500	64.800	80.000	101.700	115.200	90.300
Transmitting ERP (watts)	4.170	0.300	0.320	0.500	13.510	83.280	126.050	39.860

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
23	37-00-11.8 N	085-55-24.4 W	245.4	79.2	1223174

Address: Glasgow Downtown, 105 Lincoln Road
City: Glasgow **County:** BARREN **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	84.400	76.300	52.500	64.900	82.900	99.000	87.700	89.600
Transmitting ERP (watts)	1.130	36.370	134.760	36.800	2.250	0.320	0.320	0.320

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	84.400	76.300	52.500	64.900	82.900	99.000	87.700	89.600
Transmitting ERP (watts)	0.320	0.320	1.130	30.890	105.820	31.270	2.250	0.320

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	84.400	76.300	52.500	64.900	82.900	99.000	87.700	89.600
Transmitting ERP (watts)	4.260	0.320	0.320	0.320	0.470	22.310	148.580	69.130

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
24	37-02-38.7 N	085-27-43.8 W	296.5	77.7	1242039

Address: Metcalfe East, 8050 Edmonton Road (KY Hwy 80)
City: Edmonton **County:** ADAIR **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	161.200	138.700	115.200	99.600	89.500	117.700	121.700	113.100
Transmitting ERP (watts)	19.600	120.820	182.880	57.830	6.060	0.430	0.470	0.730

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	161.200	138.700	115.200	99.600	89.500	117.700	121.700	113.100
Transmitting ERP (watts)	0.800	0.430	0.480	7.980	74.500	191.490	102.840	13.560

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	161.200	138.700	115.200	99.600	89.500	117.700	121.700	113.100
Transmitting ERP (watts)	152.110	28.980	2.410	0.430	0.500	2.410	40.010	162.990

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
25	37-16-37.2 N	085-53-34.8 W	190.0	38.0	

Address: Munfordville Downtown, water tank in the town of
City: Munfordville **County:** HART **State:** KY C**onstruction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	29.900	29.900	29.900	29.900	29.900	29.900	29.900
Transmitting ERP (watts)	63.100	70.030	39.580	9.860	0.660	0.940	8.500	37.380

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	29.900	29.900	29.900	29.900	29.900	29.900	29.900
Transmitting ERP (watts)	2.430	11.890	72.190	167.790	144.670	35.900	4.030	0.340

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	29.900	29.900	29.900	29.900	29.900	29.900	29.900
Transmitting ERP (watts)	17.850	1.800	0.480	4.050	25.570	109.870	157.100	105.670

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
26	36-43-19.8 N	085-57-41.8 W	249.9	35.0	

Address: Fountain Run WT, within the Town of
City: Fountain Run **County:** MONROE **State:** KY C**onstruction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	52.200	29.900	29.900	48.100	45.100	49.200	59.500	79.500
Transmitting ERP (watts)	182.210	79.990	9.240	0.460	0.370	0.480	10.610	83.760

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	52.200	29.900	29.900	48.100	45.100	49.200	59.500	79.500
Transmitting ERP (watts)	2.930	27.060	138.120	171.340	47.630	4.290	0.480	0.380

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	52.200	29.900	29.900	48.100	45.100	49.200	59.500	79.500
Transmitting ERP (watts)	0.990	0.260	0.290	1.960	27.370	95.990	74.790	12.850

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
27	36-38-51.6 N	085-17-33.1 W	320.0	59.4	

Address: Dale Hollow, 2 km SSE of
City: Frogue **County:** CUMBERLAND **State:** KY C**onstruction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	113.600	98.300	103.500	120.600	143.900	175.000	143.400	133.400
Transmitting ERP (watts)	142.380	46.500	4.580	0.370	0.300	1.790	16.850	97.650

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	113.600	98.300	103.500	120.600	143.900	175.000	143.400	133.400
Transmitting ERP (watts)	0.260	13.660	49.610	13.050	0.700	0.190	0.190	0.190

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	113.600	98.300	103.500	120.600	143.900	175.000	143.400	133.400
Transmitting ERP (watts)	0.310	0.190	0.190	0.190	0.680	23.200	45.240	7.010

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
28	37-23-18.7 N	085-45-39.7 W	238.7	77.7	1263443

Address: Jonesville, 3182 Pikeview Road
City: Magnolia **County:** HART **State:** KY C**onstruction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	68.600	45.100	99.400	107.600	113.700	79.200	87.100	75.400
Transmitting ERP (watts)	112.340	72.530	10.730	0.730	0.260	0.300	3.390	38.070

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	68.600	45.100	99.400	107.600	113.700	79.200	87.100	75.400
Transmitting ERP (watts)	0.350	9.130	63.170	117.640	43.710	4.900	0.260	0.280

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	68.600	45.100	99.400	107.600	113.700	79.200	87.100	75.400
Transmitting ERP (watts)	2.040	0.260	0.310	0.960	19.520	91.310	100.120	22.420

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
29	37-07-44.7 N	085-02-39.7 W	324.0	77.7	1257754

Address: Sycamore Flat, 309 Damon Creek Spur Road
City: Russell Springs **County:** RUSSELL **State:** KY C**onstruction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	123.600	130.100	81.100	103.900	102.600	103.500	107.800	130.600
Transmitting ERP (watts)	49.220	131.570	80.750	12.800	0.910	0.380	0.430	6.130

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	123.600	130.100	81.100	103.900	102.600	103.500	107.800	130.600
Transmitting ERP (watts)	0.260	0.280	4.180	40.380	104.990	56.880	7.760	0.470

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	123.600	130.100	81.100	103.900	102.600	103.500	107.800	130.600
Transmitting ERP (watts)	28.880	2.760	0.260	0.300	0.630	15.510	83.280	107.290

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
30	36-40-50.0 N	084-25-12.0 W	429.8	55.0	

Address: Pine Knot WT, 3.7 km NE of
City: Pine Knot **County:** MCCREARY **State:** KY C**onstruction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	129.900	144.800	120.800	61.600	48.300	104.400	142.100	119.500
Transmitting ERP (watts)	34.460	120.850	94.160	16.180	1.240	0.330	0.360	2.470

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	129.900	144.800	120.800	61.600	48.300	104.400	142.100	119.500
Transmitting ERP (watts)	0.330	0.370	7.250	61.030	131.990	61.030	7.420	0.400

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	129.900	144.800	120.800	61.600	48.300	104.400	142.100	119.500
Transmitting ERP (watts)	33.670	3.250	0.330	0.350	0.710	16.940	92.010	120.850

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
31	37-11-40.7 N	085-20-55.2 W	250.5	77.7	1268209

Address: Cane Valley, 1600 Farris Road
City: Columbia **County:** ADAIR **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	87.700	83.900	79.000	67.800	85.300	97.600	112.100	124.200
Transmitting ERP (watts)	33.690	28.880	6.680	0.500	0.270	0.720	7.520	29.560

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	87.700	83.900	79.000	67.800	85.300	97.600	112.100	124.200
Transmitting ERP (watts)	1.670	19.770	92.360	113.930	32.500	3.360	0.270	0.400

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	87.700	83.900	79.000	67.800	85.300	97.600	112.100	124.200
Transmitting ERP (watts)	1.070	0.280	0.270	3.570	31.280	114.670	85.770	14.800

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
32	37-18-59.5 N	086-03-19.7 W	277.4	50.0	

Address: Cub Run WT, 1.25 km NNE of
City: Cub Run **County:** HART **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	120.300	94.100	62.500	94.500	93.900	94.900	119.500	122.500
Transmitting ERP (watts)	148.100	66.150	7.950	0.410	0.330	0.390	8.520	69.270

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	120.300	94.100	62.500	94.500	93.900	94.900	119.500	122.500
Transmitting ERP (watts)	0.800	19.520	104.850	135.070	36.350	3.470	0.330	0.380

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	120.300	94.100	62.500	94.500	93.900	94.900	119.500	122.500
Transmitting ERP (watts)	1.320	0.330	0.390	2.890	38.950	135.070	104.850	17.400

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
33	36-57-06.3 N	084-49-13.8 W	251.1	91.1	1203422

Address: Conley Bottom, 13.3 km North of
City: Monticello **County:** WAYNE **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	48.500	30.900	29.900	29.900	46.300	82.000	44.500
Transmitting ERP (watts)	117.640	52.550	6.320	0.320	0.260	0.310	6.770	55.020

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	48.500	30.900	29.900	29.900	46.300	82.000	44.500
Transmitting ERP (watts)	2.050	18.640	96.060	119.550	33.460	3.140	0.340	0.270

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	48.500	30.900	29.900	29.900	46.300	82.000	44.500
Transmitting ERP (watts)	1.050	0.260	0.310	2.290	30.940	107.290	83.280	13.820

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
34	36-38-23.0 N	085-46-38.0 W	271.3	45.0	

Address: Gamaliel WT, 1.75 km East of
City: Gamaliel **County:** MONROE **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	45.300	35.300	29.900	36.900	61.400	52.700	77.300	68.100
Transmitting ERP (watts)	263.850	136.600	17.700	1.020	0.540	0.670	11.130	103.240

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	45.300	35.300	29.900	36.900	61.400	52.700	77.300	68.100
Transmitting ERP (watts)	5.290	57.720	173.330	110.860	15.750	1.050	0.370	0.470

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	45.300	35.300	29.900	36.900	61.400	52.700	77.300	68.100
Transmitting ERP (watts)	9.240	0.460	0.370	0.480	10.610	83.760	182.210	79.990

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
35	36-50-27.1 N	084-28-44.2 W	425.5	79.6	1233359

Address: 165 HWY 90 (KY13162-A)

City: Parkers Lake **County:** MCCREARY **State:** KY **Construction Deadline:**

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	163.500	149.600	145.400	136.000	86.200	163.400	148.700	171.200
Transmitting ERP (watts)	2.890	33.620	100.380	66.750	9.990	0.680	0.260	0.280

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	163.500	149.600	145.400	136.000	86.200	163.400	148.700	171.200
Transmitting ERP (watts)	0.260	0.260	0.330	7.940	56.880	104.990	40.380	4.580

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	163.500	149.600	145.400	136.000	86.200	163.400	148.700	171.200
Transmitting ERP (watts)	20.870	16.620	3.640	0.420	0.450	1.630	14.750	20.590

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
36	36-59-34.1 N	084-56-03.7 W	291.7	77.7	1259175

Address: Alligator, 15.3 km southeast of

City: Russell Springs **County:** RUSSELL **State:** KY **Construction Deadline:**

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	54.100	59.700	88.000	102.000	98.600	134.200	90.900	67.000
Transmitting ERP (watts)	152.110	67.940	8.170	0.420	0.340	0.400	8.750	71.150

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	54.100	59.700	88.000	102.000	98.600	134.200	90.900	67.000
Transmitting ERP (watts)	0.690	14.430	63.180	78.560	25.130	2.880	0.260	0.340

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	54.100	59.700	88.000	102.000	98.600	134.200	90.900	67.000
Transmitting ERP (watts)	1.140	0.260	0.340	2.400	26.930	78.560	63.180	12.860

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
37	37-19-35.7 N	085-45-55.6 W	227.1	77.7	1257254

Address: 5553 North Jackson Highway
City: Munfordville **County:** HART **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	51.400	77.900	102.200	109.800	95.200	105.800	54.500	60.400
Transmitting ERP (watts)	122.700	78.480	11.150	0.740	0.260	0.340	3.750	40.860

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	51.400	77.900	102.200	109.800	95.200	105.800	54.500	60.400
Transmitting ERP (watts)	0.280	0.380	9.920	69.800	128.750	47.020	5.070	0.260

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	51.400	77.900	102.200	109.800	95.200	105.800	54.500	60.400
Transmitting ERP (watts)	6.540	0.320	0.260	0.340	7.510	59.300	128.990	56.630

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
38	36-47-19.7 N	084-28-52.0 W	407.2	77.7	1258597

Address: Flat Rock, 72 Bryant Mill Road
City: Whitley CIty **County:** MCCREARY **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	126.900	132.400	146.800	120.400	90.700	160.300	195.600	179.100
Transmitting ERP (watts)	100.380	66.750	9.990	0.680	0.260	0.280	2.890	33.620

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	126.900	132.400	146.800	120.400	90.700	160.300	195.600	179.100
Transmitting ERP (watts)	0.260	0.410	10.460	65.230	100.380	32.860	3.400	0.260

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	126.900	132.400	146.800	120.400	90.700	160.300	195.600	179.100
Transmitting ERP (watts)	5.900	0.320	0.260	0.290	5.760	48.480	104.840	48.480

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
39	36-53-52.1 N	084-47-02.5 W	353.6	94.2	1238700

Address: Wayne NE, RR 2, Box 9516 (KY13178-A)
City: Monticello **County:** WAYNE **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	152.800	156.600	111.800	106.100	61.800	118.700	147.100	144.800
Transmitting ERP (watts)	73.090	95.990	26.740	2.580	0.260	0.270	0.570	13.450

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	152.800	156.600	111.800	106.100	61.800	118.700	147.100	144.800
Transmitting ERP (watts)	1.050	0.260	0.310	2.290	30.940	107.290	83.280	13.820

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
40	36-48-41.0 N	085-07-47.0 W	297.2	91.1	1063507

Address: Grider Hill, in the City of
City: ALBANY **County:** CLINTON **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	139.900	128.800	89.600	29.900	76.500	89.400	129.500	148.400
Transmitting ERP (watts)	187.140	82.160	9.490	0.470	0.380	0.490	10.890	86.030

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	139.900	128.800	89.600	29.900	76.500	89.400	129.500	148.400
Transmitting ERP (watts)	1.010	24.530	130.970	169.690	43.870	4.120	0.380	0.470

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	139.900	128.800	89.600	29.900	76.500	89.400	129.500	148.400
Transmitting ERP (watts)	1.560	0.380	0.500	3.670	49.220	169.690	130.970	20.880

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
41	36-50-24.2 N	085-56-34.3 W	236.8	77.7	1267267

Address: Cooktown, 47 Pitcock School Road
City: Austin **County:** BARREN **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	102.100	83.800	69.100	67.600	75.700	91.300	106.100	110.000
Transmitting ERP (watts)	44.890	155.660	120.830	20.050	1.520	0.380	0.450	3.330

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
41	36-50-24.2 N	085-56-34.3 W	236.8	77.7	1267267

Address: Cooktown, 47 Pitcock School Road
City: Austin **County:** BARREN **State:** KY **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	102.100	83.800	69.100	67.600	75.700	91.300	106.100	110.000
Transmitting ERP (watts)	0.260	0.310	6.770	55.020	117.640	52.550	6.320	0.320

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	102.100	83.800	69.100	67.600	75.700	91.300	106.100	110.000
Transmitting ERP (watts)	28.880	2.760	0.260	0.300	0.630	15.510	83.280	107.290

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
42	37-05-29.1 N	085-36-52.2 W	242.9	77.7	1266731

Address: Sulphur Well, 9037 Greensburg Road
City: Edmonton **County:** METCALFE **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	88.600	85.300	71.200	80.200	58.000	51.600	79.800	80.200
Transmitting ERP (watts)	59.300	128.990	56.630	6.540	0.320	0.260	0.340	7.510

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	88.600	85.300	71.200	80.200	58.000	51.600	79.800	80.200
Transmitting ERP (watts)	0.280	0.380	9.920	69.800	128.750	47.020	5.070	0.260

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	88.600	85.300	71.200	80.200	58.000	51.600	79.800	80.200
Transmitting ERP (watts)	18.570	1.520	0.260	0.340	1.630	26.900	108.950	99.160

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
43	37-13-36.2 N	085-48-48.7 W	214.6	77.7	1257256

Address: Bunnell Crossing, 2485 South Jackson Highway
City: Horse Cave **County:** HART **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	68.900	94.700	77.500	69.300	79.200	71.800	80.500	77.900
Transmitting ERP (watts)	69.800	128.750	47.020	5.070	0.260	0.280	0.380	9.920

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
43	37-13-36.2 N	085-48-48.7 W	214.6	77.7	1257256

Address: Bunnell Crossing, 2485 South Jackson Highway
City: Horse Cave **County:** HART **State:** KY C**onstruction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	68.900	94.700	77.500	69.300	79.200	71.800	80.500	77.900
Transmitting ERP (watts)	0.260	0.340	3.750	40.860	122.700	78.480	11.150	0.740

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	68.900	94.700	77.500	69.300	79.200	71.800	80.500	77.900
Transmitting ERP (watts)	23.430	2.100	0.260	0.330	1.050	21.320	101.470	108.950

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
44	36-45-08.2 N	085-46-41.1 W	307.2	77.7	1263385

Address: Cedar Flats, 5612 Old Glasgow Road
City: Tompkinsville **County:** MONROE **State:** KY C**onstruction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	127.400	99.600	106.800	108.800	139.200	126.700	120.300	112.600
Transmitting ERP (watts)	106.060	51.260	7.470	0.440	0.270	0.880	9.090	54.930

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	127.400	99.600	106.800	108.800	139.200	126.700	120.300	112.600
Transmitting ERP (watts)	2.230	17.650	79.600	97.130	30.270	3.270	0.390	0.270

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	127.400	99.600	106.800	108.800	139.200	126.700	120.300	112.600
Transmitting ERP (watts)	1.220	0.420	0.270	4.470	33.110	100.320	76.550	15.620

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
45	37-14-29.3 N	085-11-59.5 W	262.4	77.7	1274206

Address: Knifely, Tucker Warren Road
City: Knifley **County:** ADAIR **State:** KY C**onstruction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	68.500	61.000	48.800	63.400	69.100	84.500	114.900	92.200
Transmitting ERP (watts)	114.480	130.660	49.070	6.770	0.450	0.620	5.460	32.920

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
45	37-14-29.3 N	085-11-59.5 W	262.4	77.7	1274206

Address: Knifely, Tucker Warren Road
City: Knifely **County:** ADAIR **State:** KY **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	68.500	61.000	48.800	63.400	69.100	84.500	114.900	92.200
Transmitting ERP (watts)	5.460	32.920	114.480	130.660	49.070	6.770	0.450	0.620

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	68.500	61.000	48.800	63.400	69.100	84.500	114.900	92.200
Transmitting ERP (watts)	0.890	0.350	3.940	22.290	94.500	128.360	70.660	11.140

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
46	37-05-19.7 N	084-54-47.3 W	331.6	106.3	1232264

Address: Font Hill, 1101 Pine Top Road
City: RUSSELL SPRINGS **County:** RUSSELL **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	94.800	38.800	79.400	108.300	120.800	98.900	92.100	104.300
Transmitting ERP (watts)	130.640	34.360	1.400	0.270	0.270	0.270	0.700	35.980

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	94.800	38.800	79.400	108.300	120.800	98.900	92.100	104.300
Transmitting ERP (watts)	10.130	0.720	0.520	5.460	30.020	118.460	146.650	67.150

Antenna: 4
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	94.800	38.800	79.400	108.300	120.800	98.900	92.100	104.300
Transmitting ERP (watts)	0.270	0.270	0.700	35.980	130.640	34.360	1.400	0.270

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
47	36-58-11.8 N	085-26-00.6 W	343.8	77.7	1261657

Address: Sparksville, 330 Fire Dept Lane
City: Breeding **County:** ADAIR **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	174.500	151.700	149.500	180.100	175.600	143.900	152.100	163.400
Transmitting ERP (watts)	63.170	117.640	43.710	4.900	0.260	0.280	0.350	9.130

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
47	36-58-11.8 N	085-26-00.6 W	343.8	77.7	1261657

Address: Sparksville, 330 Fire Dept Lane
City: Breeding **County:** ADAIR **State:** KY **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	174.500	151.700	149.500	180.100	175.600	143.900	152.100	163.400
Transmitting ERP (watts)	0.310	0.960	19.520	91.310	100.120	22.420	2.040	0.260

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	174.500	151.700	149.500	180.100	175.600	143.900	152.100	163.400
Transmitting ERP (watts)	6.320	0.320	0.260	0.310	6.770	55.020	117.640	52.550

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
48	37-07-03.1 N	085-52-50.8 W	232.0	77.7	1250179

Address: Barren North, 645 Jack Turner Road
City: Cave City **County:** BARREN **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	88.600	97.500	78.800	56.400	66.700	81.000	89.000	73.900
Transmitting ERP (watts)	55.020	117.640	52.550	6.320	0.320	0.260	0.310	6.770

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	88.600	97.500	78.800	56.400	66.700	81.000	89.000	73.900
Transmitting ERP (watts)	0.260	0.300	3.390	38.070	112.340	72.530	10.730	0.730

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	88.600	97.500	78.800	56.400	66.700	81.000	89.000	73.900
Transmitting ERP (watts)	44.460	8.510	0.650	0.280	0.460	6.050	35.340	67.700

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
49	37-12-16.2 N	085-44-03.5 W	214.9	77.7	1263048

Address: Pascal, 2510 Hundred Acre Pond Road
City: Hardyville **County:** HART **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	97.900	96.700	73.200	62.000	53.400	78.500	81.200	83.500
Transmitting ERP (watts)	101.470	108.950	23.430	2.100	0.260	0.330	1.050	21.320

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
49	37-12-16.2 N	085-44-03.5 W	214.9	77.7	1263048

Address: Pascal, 2510 Hundred Acre Pond Road
City: Hardyville **County:** HART **State:** KY **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	97.900	96.700	73.200	62.000	53.400	78.500	81.200	83.500
Transmitting ERP (watts)	0.340	7.510	59.300	128.990	56.630	6.540	0.320	0.260

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	97.900	96.700	73.200	62.000	53.400	78.500	81.200	83.500
Transmitting ERP (watts)	1.520	0.260	0.340	1.630	26.900	108.950	99.160	18.570

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
50	37-03-12.3 N	085-22-03.7 W	261.2	49.1	

Address: Flatwood, 1850 Bliss Road
City: Columbia **County:** ADAIR **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.200	61.100	61.900	52.600	38.500	29.900	48.000	88.900
Transmitting ERP (watts)	183.340	121.920	18.240	1.250	0.480	0.510	5.290	61.410

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.200	61.100	61.900	52.600	38.500	29.900	48.000	88.900
Transmitting ERP (watts)	3.440	31.560	132.880	120.360	23.780	1.930	0.370	0.340

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.200	61.100	61.900	52.600	38.500	29.900	48.000	88.900
Transmitting ERP (watts)	0.330	0.380	0.800	19.520	104.850	135.070	36.350	3.470

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
51	36-45-53.9 N	085-18-31.2 W	198.1	77.7	1257755

Address: Bear Creek, 4888 Albany Road
City: Burkesville **County:** CUMBERLAND **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	54.100	35.900	29.900	29.900	29.900	29.900	82.300	58.000
Transmitting ERP (watts)	9.130	63.170	117.640	43.710	4.900	0.260	0.280	0.350

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
51	36-45-53.9 N	085-18-31.2 W	198.1	77.7	1257755

Address: Bear Creek, 4888 Albany Road
City: Burkesville **County:** CUMBERLAND **State:** KY **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	54.100	35.900	29.900	29.900	29.900	29.900	82.300	58.000
Transmitting ERP (watts)	0.250	0.530	4.420	61.030	116.290	16.050	0.380	0.570

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	54.100	35.900	29.900	29.900	29.900	29.900	82.300	58.000
Transmitting ERP (watts)	2.040	0.260	0.310	0.960	19.520	91.310	100.120	22.420

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
52	36-42-44.7 N	085-21-54.1 W	278.3	77.7	1275245

Address: Burkesville II, Clover Creek Drive
City: Burkesville **County:** CUMBERLAND **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	159.000	107.500	71.900	97.500	110.200	122.500	135.900	132.300
Transmitting ERP (watts)	11.530	61.810	130.990	103.880	21.640	2.140	0.270	1.490

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	159.000	107.500	71.900	97.500	110.200	122.500	135.900	132.300
Transmitting ERP (watts)	0.640	0.460	4.860	26.750	105.570	130.690	59.850	9.030

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	159.000	107.500	71.900	97.500	110.200	122.500	135.900	132.300
Transmitting ERP (watts)	130.690	59.850	9.030	0.640	0.460	4.860	26.750	105.570

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
53	36-46-19.7 N	084-57-43.8 W	320.0	60.7	

Address: Zula, Route 4 Box 330A
City: Monticello **County:** WAYNE **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.300	79.400	64.000	29.900	47.800	39.400	81.000	143.200
Transmitting ERP (watts)	80.300	122.700	38.140	3.840	0.260	0.300	0.480	13.100

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
53	36-46-19.7 N	084-57-43.8 W	320.0	60.7	

Address: Zula, Route 4 Box 330A
City: Monticello **County:** WAYNE **State:** KY **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.300	79.400	64.000	29.900	47.800	39.400	81.000	143.200
Transmitting ERP (watts)	0.340	3.750	40.860	122.700	78.480	11.150	0.740	0.260

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.300	79.400	64.000	29.900	47.800	39.400	81.000	143.200
Transmitting ERP (watts)	2.840	0.260	0.330	0.690	16.910	90.270	116.960	30.240

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
54	36-44-16.2 N	085-39-31.8 W	316.4	45.1	1273499

Address: Tompkinsville II, 182 Tom Ford Road
City: Tompkinsville **County:** MONROE **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	52.700	96.000	157.600	122.400	67.800	99.700	86.100	98.800
Transmitting ERP (watts)	157.100	105.670	17.850	1.800	0.480	4.050	25.570	109.870

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	52.700	96.000	157.600	122.400	67.800	99.700	86.100	98.800
Transmitting ERP (watts)	7.940	44.270	150.440	165.870	63.900	9.040	0.700	1.050

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	52.700	96.000	157.600	122.400	67.800	99.700	86.100	98.800
Transmitting ERP (watts)	4.030	0.340	2.430	11.890	72.190	167.790	144.670	35.900

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
55	37-06-16.0 N	085-26-55.1 W	242.0	77.7	1272696

Address: Milltown, 294 Ben Smith Road
City: Columbia **County:** ADAIR **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	95.100	80.000	94.100	60.700	39.400	50.000	64.200	80.400
Transmitting ERP (watts)	124.610	82.100	13.580	1.250	0.280	2.730	18.240	82.650

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
55	37-06-16.0 N	085-26-55.1 W	242.0	77.7	1272696

Address: Milltown, 294 Ben Smith Road
City: Columbia **County:** ADAIR **State:** KY **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	95.100	80.000	94.100	60.700	39.400	50.000	64.200	80.400
Transmitting ERP (watts)	5.460	32.920	114.480	130.660	49.070	6.770	0.450	0.620

Antenna: 4
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	95.100	80.000	94.100	60.700	39.400	50.000	64.200	80.400
Transmitting ERP (watts)	2.950	0.270	1.500	8.200	53.810	130.660	112.910	27.380

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
56	36-49-54.0 N	085-30-26.8 W	259.7	77.4	1263396

Address: Marrowbone, 9970 Glasgow Road (KY 11775-A)
City: Burkesville **County:** CUMBERLAND **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	57.500	59.800	109.700	100.500	118.200	69.900	45.800	67.300
Transmitting ERP (watts)	107.290	83.280	13.820	1.050	0.260	0.310	2.290	30.940

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	57.500	59.800	109.700	100.500	118.200	69.900	45.800	67.300
Transmitting ERP (watts)	0.630	15.510	83.280	107.290	28.880	2.760	0.260	0.300

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	57.500	59.800	109.700	100.500	118.200	69.900	45.800	67.300
Transmitting ERP (watts)	6.320	0.320	0.260	0.310	6.770	55.020	117.640	52.550

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
57	36-49-02.3 N	084-54-11.6 W	308.8	67.1	1256099

Address: Monticello West, 3.2 km west of
City: Monticello **County:** WAYNE **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	100.700	71.600	33.000	29.900	29.900	44.700	87.700	110.900
Transmitting ERP (watts)	13.100	80.300	122.700	38.140	3.840	0.260	0.300	0.480

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
57	36-49-02.3 N	084-54-11.6 W	308.8	67.1	1256099

Address: Monticello West, 3.2 km west of
City: Monticello **County:** WAYNE **State:** KY **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	100.700	71.600	33.000	29.900	29.900	44.700	87.700	110.900
Transmitting ERP (watts)	0.260	0.280	0.380	9.920	69.800	128.750	47.020	5.070

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	100.700	71.600	33.000	29.900	29.900	44.700	87.700	110.900
Transmitting ERP (watts)	73.680	13.650	1.130	0.260	0.370	2.600	30.680	93.270

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
58	37-21-53.4 N	085-59-06.7 W	224.3	77.7	1279268

Address: Priceville, 6465 Raider Hollow Road
City: Munfordville **County:** HART **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	86.300	57.200	63.000	84.200	63.900	76.100	93.500	93.100
Transmitting ERP (watts)	122.420	126.750	40.620	4.930	0.330	0.900	5.470	39.870

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	86.300	57.200	63.000	84.200	63.900	76.100	93.500	93.100
Transmitting ERP (watts)	1.490	11.530	61.810	130.990	103.880	21.640	2.140	0.270

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	86.300	57.200	63.000	84.200	63.900	76.100	93.500	93.100
Transmitting ERP (watts)	11.140	0.890	0.350	3.940	22.290	94.500	128.360	70.660

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
59	36-55-11.8 N	085-46-09.4 W	281.6	60.7	

Address: 640 Spears Road
City: Eighty Eight **County:** BARREN **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	73.700	80.500	60.000	52.300	80.600	106.300	140.000	84.000
Transmitting ERP (watts)	83.280	107.290	28.880	2.760	0.260	0.300	0.630	15.510

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
59	36-55-11.8 N	085-46-09.4 W	281.6	60.7	

Address: 640 Spears Road
City: Eighty Eight **County:** BARREN **State:** KY **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	73.700	80.500	60.000	52.300	80.600	106.300	140.000	84.000
Transmitting ERP (watts)	0.300	4.900	45.770	117.640	63.170	8.330	0.490	0.260

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	73.700	80.500	60.000	52.300	80.600	106.300	140.000	84.000
Transmitting ERP (watts)	10.730	0.730	0.260	0.300	3.390	38.070	112.340	72.530

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
60	36-47-29.1 N	085-41-06.2 W	304.8	77.7	1258492

Address: Monroe North, 2543 John Eaton Road
City: Tompkinsville **County:** MONROE **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	74.500	125.700	119.500	131.700	96.800	116.700	93.400	125.200
Transmitting ERP (watts)	112.340	72.530	10.730	0.730	0.260	0.300	3.390	38.070

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	74.500	125.700	119.500	131.700	96.800	116.700	93.400	125.200
Transmitting ERP (watts)	0.290	0.450	12.040	74.220	112.340	35.530	3.720	0.260

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	74.500	125.700	119.500	131.700	96.800	116.700	93.400	125.200
Transmitting ERP (watts)	6.320	0.320	0.260	0.310	6.770	55.020	117.640	52.550

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
61	36-53-03.2 N	085-06-05.4 W	287.7	77.7	1254846

Address: Lake Cumberland Dam, 3.2 km south of
City: Freedom **County:** RUSSELL **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	74.300	122.800	93.300	119.500	87.000	111.600	154.900	86.500
Transmitting ERP (watts)	170.670	76.240	9.170	0.470	0.380	0.450	9.820	79.830

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
61	36-53-03.2 N	085-06-05.4 W	287.7	77.7	1254846

Address: Lake Cumberland Dam, 3.2 km south of
City: Freedom **County:** RUSSELL **State:** KY **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	74.300	122.800	93.300	119.500	87.000	111.600	154.900	86.500
Transmitting ERP (watts)	0.920	22.500	120.830	155.660	41.900	4.000	0.380	0.440

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	74.300	122.800	93.300	119.500	87.000	111.600	154.900	86.500
Transmitting ERP (watts)	1.520	0.380	0.450	3.330	44.890	155.660	120.830	20.050

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
62	36-45-30.5 N	085-12-09.6 W	306.6	77.7	1258453

Address: Ida, Route 5, Box 473AA
City: Albany **County:** CLINTON **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	153.900	117.200	66.500	76.800	116.300	109.600	166.800	149.300
Transmitting ERP (watts)	78.620	88.210	8.620	0.340	0.240	0.240	0.240	4.520

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	153.900	117.200	66.500	76.800	116.300	109.600	166.800	149.300
Transmitting ERP (watts)	0.630	15.510	83.280	107.290	28.880	2.760	0.260	0.300

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	153.900	117.200	66.500	76.800	116.300	109.600	166.800	149.300
Transmitting ERP (watts)	17.800	1.480	0.260	0.310	1.480	24.580	100.120	93.440

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
63	37-00-27.8 N	085-15-14.6 W	286.5	77.7	1278367

Address: 340 J. Brummett Road
City: Glens Fork **County:** ADAIR **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	108.300	86.800	79.000	82.200	122.700	100.800	68.500	113.500
Transmitting ERP (watts)	133.000	105.720	22.590	2.360	0.270	1.950	13.040	65.860

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
63	37-00-27.8 N	085-15-14.6 W	286.5	77.7	1278367

Address: 340 J. Brummett Road
City: Glens Fork **County:** ADAIR **State:** KY **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	108.300	86.800	79.000	82.200	122.700	100.800	68.500	113.500
Transmitting ERP (watts)	4.510	24.420	99.090	128.840	72.230	11.760	1.030	0.510

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	108.300	86.800	79.000	82.200	122.700	100.800	68.500	113.500
Transmitting ERP (watts)	5.350	0.420	1.180	6.560	42.490	126.600	128.390	42.400

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
64	37-05-35.9 N	086-03-49.8 W	215.2	77.7	1275870

Address: 23190 Louisville Road
City: Park City **County:** BARREN **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	71.400	55.000	74.000	71.800	65.900	95.700	105.600	98.500
Transmitting ERP (watts)	57.340	133.270	114.910	28.510	3.200	0.270	1.930	9.450

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	71.400	55.000	74.000	71.800	65.900	95.700	105.600	98.500
Transmitting ERP (watts)	0.310	1.620	6.890	49.700	131.390	122.590	35.260	4.140

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	71.400	55.000	74.000	71.800	65.900	95.700	105.600	98.500
Transmitting ERP (watts)	72.230	11.760	1.030	0.510	4.510	24.420	99.090	128.840

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
65	37-04-01.1 N	085-50-36.0 W	249.3	74.4	1250180

Address: Hiseville, 26 Jack Smith Road
City: Glasgow **County:** BARREN **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	112.300	98.100	70.600	54.300	71.800	96.100	89.000	109.300
Transmitting ERP (watts)	74.790	99.710	12.510	0.540	0.240	0.240	0.240	5.280

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
65	37-04-01.1 N	085-50-36.0 W	249.3	74.4	1250180

Address: Hiseville, 26 Jack Smith Road
City: Glasgow **County:** BARREN **State:** KY **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	112.300	98.100	70.600	54.300	71.800	96.100	89.000	109.300
Transmitting ERP (watts)	3.940	22.290	94.500	128.360	70.660	11.140	0.890	0.350

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	112.300	98.100	70.600	54.300	71.800	96.100	89.000	109.300
Transmitting ERP (watts)	0.890	0.350	3.940	22.290	94.500	128.360	70.660	11.140

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
66	37-19-28.6 N	085-51-23.6 W	261.5	77.7	1263442

Address: Hinesdale, 785 Kirt Logsdon Road
City: Munfordville **County:** HART **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.200	83.500	121.800	134.000	140.300	151.300	92.900	107.500
Transmitting ERP (watts)	83.280	107.290	28.880	2.760	0.260	0.300	0.630	15.510

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.200	83.500	121.800	134.000	140.300	151.300	92.900	107.500
Transmitting ERP (watts)	0.350	9.130	63.170	117.640	43.710	4.900	0.260	0.280

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.200	83.500	121.800	134.000	140.300	151.300	92.900	107.500
Transmitting ERP (watts)	3.720	0.260	0.290	0.450	12.040	74.220	112.340	35.530

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
67	37-10-38.0 N	085-55-14.4 W	280.1	77.7	1267522

Address: Horse Cave Downtown, 413 West Main Street
City: Horse Cave **County:** HART **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	144.700	148.100	149.200	139.100	134.300	143.800	130.200	158.900
Transmitting ERP (watts)	2.790	65.390	98.980	12.180	0.450	0.240	0.240	0.240

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
67	37-10-38.0 N	085-55-14.4 W	280.1	77.7	1267522

Address: Horse Cave Downtown, 413 West Main Street
City: Horse Cave **County:** HART **State:** KY C**onstruction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	144.700	148.100	149.200	139.100	134.300	143.800	130.200	158.900
Transmitting ERP (watts)	0.240	0.240	0.270	16.050	108.530	50.760	2.790	0.240

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	144.700	148.100	149.200	139.100	134.300	143.800	130.200	158.900
Transmitting ERP (watts)	39.400	1.890	0.240	0.240	0.240	0.360	22.670	113.640

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
68	37-04-25.0 N	085-42-47.2 W	246.2	77.7	1260710

Address: 243 Harold Poynter Road
City: Knob Lick **County:** METCALFE **State:** KY C**onstruction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	89.000	88.700	80.700	66.000	38.100	60.300	78.700	107.700
Transmitting ERP (watts)	116.290	30.590	1.250	0.240	0.240	0.240	0.620	32.030

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	89.000	88.700	80.700	66.000	38.100	60.300	78.700	107.700
Transmitting ERP (watts)	12.040	74.220	112.340	35.530	3.720	0.260	0.290	0.450

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	89.000	88.700	80.700	66.000	38.100	60.300	78.700	107.700
Transmitting ERP (watts)	8.330	0.490	0.260	0.300	4.900	45.770	117.640	63.170

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
69	37-01-03.9 N	085-54-42.3 W	254.8	68.5	1230168

Address: Glasgow II, 156 Robert Bishop Road
City: Glasgow **County:** BARREN **State:** KY C**onstruction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	101.800	97.200	66.700	75.200	101.000	116.100	103.100	98.800
Transmitting ERP (watts)	80.450	63.170	11.630	0.910	0.260	0.260	1.680	22.420

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
69	37-01-03.9 N	085-54-42.3 W	254.8	68.5	1230168

Address: Glasgow II, 156 Robert Bishop Road
City: Glasgow **County:** BARREN **State:** KY **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	101.800	97.200	66.700	75.200	101.000	116.100	103.100	98.800
Transmitting ERP (watts)	0.510	11.360	61.740	82.330	23.470	2.370	0.260	0.260

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	101.800	97.200	66.700	75.200	101.000	116.100	103.100	98.800
Transmitting ERP (watts)	1.060	0.240	0.240	0.240	2.850	44.210	63.910	11.630

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
70	36-59-35.6 N	085-46-20.7 W	256.3	106.4	1248189

Address: Slick Rock, 1636 Beaver Creek Road
City: Glasgow **County:** BARREN **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	93.300	80.400	81.500	50.600	92.700	113.300	106.000	103.200
Transmitting ERP (watts)	13.820	74.230	95.620	25.740	2.460	0.240	0.270	0.560

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	93.300	80.400	81.500	50.600	92.700	113.300	106.000	103.200
Transmitting ERP (watts)	0.240	0.280	6.030	49.040	104.850	46.830	5.630	0.290

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	93.300	80.400	81.500	50.600	92.700	113.300	106.000	103.200
Transmitting ERP (watts)	10.240	0.670	0.240	0.240	4.070	34.450	104.820	65.670

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
71	36-53-29.8 N	085-50-49.9 W	237.4	60.6	

Address: Temple Hill, 215 Peden-Matthews Road
City: Glasgow **County:** BARREN **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	47.300	45.800	38.900	59.200	48.200	58.600	85.800	82.100
Transmitting ERP (watts)	30.940	107.290	83.280	13.820	1.050	0.260	0.310	2.290

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
71	36-53-29.8 N	085-50-49.9 W	237.4	60.6	

Address: Temple Hill, 215 Peden-Matthews Road
City: Glasgow **County:** BARREN **State:** KY **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	47.300	45.800	38.900	59.200	48.200	58.600	85.800	82.100
Transmitting ERP (watts)	0.380	0.450	9.820	79.830	170.670	76.240	9.170	0.470

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	47.300	45.800	38.900	59.200	48.200	58.600	85.800	82.100
Transmitting ERP (watts)	41.900	4.000	0.380	0.440	0.920	22.500	120.830	155.660

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
72	36-50-21.2 N	085-36-18.3 W	268.2	77.7	1261655

Address: Willow Shade, 680 N.C. Hurt Road
City: Tompkinsville **County:** MONROE **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.200	72.500	122.700	127.900	90.600	44.500	58.900	42.500
Transmitting ERP (watts)	19.520	91.310	100.120	22.420	2.040	0.260	0.310	0.960

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.200	72.500	122.700	127.900	90.600	44.500	58.900	42.500
Transmitting ERP (watts)	0.260	0.300	3.390	38.070	112.340	72.530	10.730	0.730

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.200	72.500	122.700	127.900	90.600	44.500	58.900	42.500
Transmitting ERP (watts)	28.880	2.760	0.260	0.300	0.630	15.510	83.280	107.290

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
73	36-45-21.5 N	085-03-35.7 W	353.6	78.6	1258266

Address: Cartwright, Old Hwy 90 (KY10655-A)
City: Albany **County:** CLINTON **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	156.900	140.200	105.000	45.800	77.300	86.000	132.200	171.200
Transmitting ERP (watts)	131.390	122.590	35.260	4.140	0.310	1.620	6.890	49.700

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
73	36-45-21.5 N	085-03-35.7 W	353.6	78.6	1258266

Address: Cartwright, Old Hwy 90 (KY10655-A)
City: Albany **County:** CLINTON **State:** KY C**onstruction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	156.900	140.200	105.000	45.800	77.300	86.000	132.200	171.200
Transmitting ERP (watts)	2.180	16.200	75.640	129.140	95.070	17.850	1.750	0.270

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	156.900	140.200	105.000	45.800	77.300	86.000	132.200	171.200
Transmitting ERP (watts)	9.560	0.760	0.650	5.540	28.840	110.190	131.780	61.330

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
74	37-05-28.2 N	085-18-03.9 W	251.4	93.2	1228813

Address: Columbia II, 1117 Gaston Ave.
City: Columbia **County:** ADAIR **State:** KY C**onstruction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	84.700	76.800	55.100	72.700	59.500	47.200	97.600	100.900
Transmitting ERP (watts)	3.730	15.320	11.730	14.350	8.940	0.760	0.260	0.260

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	84.700	76.800	55.100	72.700	59.500	47.200	97.600	100.900
Transmitting ERP (watts)	0.490	0.260	0.300	4.900	45.770	117.640	63.170	8.330

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	84.700	76.800	55.100	72.700	59.500	47.200	97.600	100.900
Transmitting ERP (watts)	12.770	12.150	3.620	0.260	0.270	0.520	7.080	13.060

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
75	36-39-32.1 N	085-36-54.3 W	314.6	77.7	1278911

Address: Hestand, 150 H. Spears Road
City: Hestand **County:** MONROE **State:** KY C**onstruction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	126.100	199.100	169.300	169.200	113.100	113.800	129.800	107.000
Transmitting ERP (watts)	124.610	82.100	13.580	1.250	0.280	2.730	18.240	82.650

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
75	36-39-32.1 N	085-36-54.3 W	314.6	77.7	1278911

Address: Hestand, 150 H. Spears Road
City: Hestand **County:** MONROE **State:** KY **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	126.100	199.100	169.300	169.200	113.100	113.800	129.800	107.000
Transmitting ERP (watts)	0.230	4.050	48.030	38.780	3.370	0.230	0.230	0.230

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	126.100	199.100	169.300	169.200	113.100	113.800	129.800	107.000
Transmitting ERP (watts)	0.300	0.270	0.270	0.270	7.860	98.980	82.330	6.390

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
76	37-01-28.9 N	085-56-25.6 W	200.3	38.1	1271460

Address: Glasgow III, 3576 Vetrans Outer Loop
City: Glasgow **County:** BARREN **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	29.900	29.900	29.900	29.900	46.700	29.900	29.900
Transmitting ERP (watts)	2.050	33.870	137.170	124.840	23.380	1.910	0.330	0.430

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	29.900	29.900	29.900	29.900	46.700	29.900	29.900
Transmitting ERP (watts)	0.630	0.330	0.410	6.840	63.420	162.090	83.920	10.870

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	29.900	29.900	29.900	29.900	46.700	29.900	29.900
Transmitting ERP (watts)	154.470	48.010	4.830	0.330	0.380	0.600	16.490	101.100

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
77	36-56-37.0 N	086-00-52.0 W	218.9	91.1	1063506

Address: BARREN RIVER LAKE
City: HAYWOOD **County:** BARREN **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	87.800	87.700	78.400	83.300	98.200	130.100	114.100	96.200
Transmitting ERP (watts)	101.050	42.130	4.720	0.240	0.240	0.610	5.870	42.130

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
77	36-56-37.0 N	086-00-52.0 W	218.9	91.1	1063506

Address: BARREN RIVER LAKE
City: HAYWOOD **County:** BARREN **State:** KY C**onstruction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	87.800	87.700	78.400	83.300	98.200	130.100	114.100	96.200
Transmitting ERP (watts)	3.390	28.830	96.130	59.190	8.040	0.390	0.240	0.350

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	87.800	87.700	78.400	83.300	98.200	130.100	114.100	96.200
Transmitting ERP (watts)	0.620	0.240	0.340	2.410	23.740	91.110	68.010	10.650

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
78	36-58-44.0 N	085-36-47.0 W	249.9	45.7	

Address: Edmonton Downtown Water Tank, in the town of
City: Edmonton **County:** METCALFE **State:** KY C**onstruction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	48.500	29.900	29.900	29.900	29.900	29.900	29.900	42.000
Transmitting ERP (watts)	117.640	52.550	6.320	0.320	0.260	0.310	6.770	55.020

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	48.500	29.900	29.900	29.900	29.900	29.900	29.900	42.000
Transmitting ERP (watts)	0.630	15.510	83.280	107.290	28.880	2.760	0.260	0.300

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	48.500	29.900	29.900	29.900	29.900	29.900	29.900	42.000
Transmitting ERP (watts)	1.050	0.260	0.310	2.290	30.940	107.290	83.280	13.820

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
79	36-52-32.5 N	085-24-08.7 W	265.2	77.7	1275158

Address: Smith Bridge, 7031 Columbia Road
City: Burkesville **County:** CUMBERLAND **State:** KY C**onstruction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	50.900	83.800	118.700	123.800	120.900	128.700	92.600	76.800
Transmitting ERP (watts)	5.460	32.920	114.480	130.660	49.070	6.770	0.450	0.620

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814 **File Number:** 0009262182 **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
79	36-52-32.5 N	085-24-08.7 W	265.2	77.7	1275158

Address: Smith Bridge, 7031 Columbia Road

City: Burkesville **County:** CUMBERLAND **State:** KY **Construction Deadline:**

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	50.900	83.800	118.700	123.800	120.900	128.700	92.600	76.800
Transmitting ERP (watts)	1.250	0.280	2.730	18.240	82.650	124.610	82.100	13.580

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	50.900	83.800	118.700	123.800	120.900	128.700	92.600	76.800
Transmitting ERP (watts)	93.210	17.180	1.520	0.270	1.720	14.250	71.470	128.360

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
80	36-46-19.8 N	084-45-59.0 W	351.7	77.7	1271461

Address: Coopersville, 145 Abbott Road

City: Monticello **County:** WAYNE **State:** KY **Construction Deadline:**

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	67.900	149.400	100.200	78.600	97.200	29.900	101.300	118.700
Transmitting ERP (watts)	3.330	29.550	115.490	103.170	20.970	1.630	0.360	0.270

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	67.900	149.400	100.200	78.600	97.200	29.900	101.300	118.700
Transmitting ERP (watts)	0.280	0.270	3.570	31.280	114.670	85.770	14.800	1.070

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	67.900	149.400	100.200	78.600	97.200	29.900	101.300	118.700
Transmitting ERP (watts)	11.150	0.740	0.260	0.340	3.750	40.860	122.700	78.480

Control Points:

Control Pt. No. 1

Address: 316-W LINCOLN TRAIL

City: RADCLIFF **County:** **State:** KY **Telephone Number:**

Waivers/Conditions:

NONE

09/26/2024 at 09:21:38
A1298967

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: **A1298967**
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): **0024950685**		5) Assignor FCC Registration Number (FRN):	
6) First Name (if individual):	MI:	Last Name:	Suffix:
7) Legal Entity Name (if not an individual): **TowerCo V Holdings LLC**			
8) Attention To: **TowerCo ID: KY0117**		9) P.O. Box:	**And/Or**
10a) Street Address 1: **5000 Valleystone Drive, Suite 200**	10b) Street Address 2:		
11) City: **Cary**	12) State: **NC**	13) Zip Code: **27519**	
14) Telephone Number (xxx-xxx-xxxx): **(919) 653-5700**		15) Fax Number: (xxx-xxx-xxxx): **(919) 469-5530**	
16) E-mail Address: **hbyrne@towerco.com**			

Contact Representative Information

17) First Name (if individual):	MI:	Last Name:	Suffix:

18) Business Name: **TowerCo V Holdings LLC**		
19) Attention To: **Henry Byrne**	20) P.O. Box	**And/Or**
21a) Street Address 1: **5000 Valleystone Drive, Suite 200**	21b) Street Address 2:	
22) City: **Cary**	23) State: **NC**	24) Zip Code: **27519**
25) Telephone Number (xxx-xxx-xxxx): **(919) 653-5700**	26) Fax Number: (xxx-xxx-xxxx): **(919) 469-5530**	
27) E-mail Address: **hbyrne@towerco.com**		

Antenna Structure Information

28a) Latitude (DD-MM-SS.S): **36- 38- 15.8**	28b) North or South: **North**
29a) Longitude (DDD-MM-SS.S): **085- 21- 46.3**	29b) East or West: **West**
30) Street Address or Geographic Location: **1407 Cherry Tree Rd**	31) City: **Burkesville**

32) County: **CUMBERLAND**	33) State: **KENTUCKY**	34) Zip Code: **42717**

35) Elevation of site above mean sea level (meters):	**300.2** meters
36) Overall height above ground level (AGL) of the supporting structure without appurtenances:	**39.6** meters
37) Overall height above ground level (AGL) of the antenna structure including all appurtenances:	**41.1** meters
38) Overall height above mean sea level (add items 35 and 37 together):	**341.3** meters

39a) Enter the type of structure on which the antenna will be mounted: (**MTOWER**)

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
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.)

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: (1)
See Form 854 Item 42 Instructions for detailed tier and lighting information.

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

FAA Notification

43) FAA Study Number:	44) Date Issued:

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: **09/27/2024**
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: **Henry**	MI:	Last Name: **Byrne**	Suffix:
53) Title: **FCC Contact**			
54) Signature: **Henry Byrne**			55) Date: **Sep 26, 2024**

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:

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WPWU920	0009262037
Radio Service	
WZ - 700 MHz Lower Band (Blocks C, D)	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
07-12-2019	01-13-2021	06-13-2029	03-10-2021

Market Number	Channel Block	Sub-Market Designator
CMA447	C	0

Market Name
Kentucky 5 - Barren

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
06-13-2019			

Waivers/Conditions:

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

Operation of the facilities authorized herein, are subject to the condition that harmful interference may not be caused to, but must be accepted from UHF TV transmitters in Canada and Mexico as identified in existing and any future agreements with those countries.

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

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

FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WPWU920 **File Number:** 0009262037 **Print Date:** 03-10-2021

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WPZV473	0010160221
Radio Service	
CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
06-23-2015	09-23-2022	06-23-2025	02-15-2023

Market Number	Channel Block	Sub-Market Designator
MTA026	A	27

Market Name
Louisville-Lexington-Evansvill

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
06-23-2000	06-23-2005		

Waivers/Conditions:

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

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WPZV473 **File Number:** 0010160221 **Print Date:** 02-15-2023

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

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

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
02-22-2022	02-22-2022	11-29-2036	02-23-2022

Market Number	Channel Block	Sub-Market Designator
REA004	F	15

Market Name
Mississippi Valley

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGA718 **File Number:** 0009793647 **Print Date:** 02-23-2022

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WQGA959	0009775569
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
01-03-2022	01-03-2022	11-29-2036	01-05-2022

Market Number	Channel Block	Sub-Market Designator
BEA071	B	0

Market Name
Nashville, TN-KY

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGA959 **File Number:** 0009775569 **Print Date:** 01-05-2022

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WQIZ368	0009262040
Radio Service	
WY - 700 MHz Lower Band (Blocks A, B & E)	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
09-20-2019	01-13-2021	06-13-2029	03-10-2021

Market Number	Channel Block	Sub-Market Designator
CMA447	B	0

Market Name
Kentucky 5 - Barren

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
12-13-2016	06-13-2019		

Waivers/Conditions:

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

The interim construction benchmark has been extended to December 13, 2013 pursuant to Public Notice DA 13-680 released April 10, 2013. The extension is non-transferrable and any proposed assignee or transferee seeking Commission approval to acquire thislicense may independently seek relief justifying an extension of the interim construction benchmark set forth in 47 C.F.R. § 27.14(g).

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

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

FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQIZ368 **File Number:** 0009262040 **Print Date:** 03-10-2021

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WQJQ692	

Radio Service
WU - 700 MHz Upper Band (Block C)

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
01-10-2020	02-11-2021	06-13-2029	

Market Number	Channel Block	Sub-Market Designator
REA004	C	0

Market Name
Mississippi Valley

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
06-13-2013	06-13-2019		

Waivers/Conditions:

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

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

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

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

FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQJQ692 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WQVN764	

Radio Service
AT - AWS-3 (1695-1710 MHz, 1755-1780 MHz, and 2155-2180 MHz)

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
04-08-2015	02-24-2017	04-08-2027	

Market Number	Channel Block	Sub-Market Designator
BEA071	H	0

Market Name
Nashville, TN-KY

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
04-08-2021	04-08-2027		

Waivers/Conditions:

NONE

Conditions:

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

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

FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQVN764 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WQVN765	

Radio Service
AT - AWS-3 (1695-1710 MHz, 1755-1780 MHz, and 2155-2180 MHz)

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
04-08-2015	02-24-2017	04-08-2027	

Market Number	Channel Block	Sub-Market Designator
BEA071	I	0

Market Name
Nashville, TN-KY

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
04-08-2021	04-08-2027		

Waivers/Conditions:

NONE

Conditions:

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

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

FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQVN765 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WRBB970	
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
07-09-2019	01-13-2021	08-09-2029	

Market Number	Channel Block	Sub-Market Designator
BTA052	L1	0

Market Name
Bowling Green-Glasgow, KY

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
06-01-2024			

Waivers/Conditions:

NONE

Conditions:

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

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

FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRBB970 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WREV449	0009262184
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
12-11-2019	01-13-2021	12-11-2029	03-11-2021

Market Number	Channel Block	Sub-Market Designator
PEA112	A	0

Market Name
Bowling Green, KY

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WREV449 **File Number:** 0009262184 **Print Date:** 03-11-2021

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WREV451	0009262184
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
12-11-2019	01-13-2021	12-11-2029	03-11-2021

Market Number	Channel Block	Sub-Market Designator
PEA112	B	0

Market Name
Bowling Green, KY

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WREV451 **File Number:** 0009262184 **Print Date:** 03-11-2021

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WREV453	0009262184
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
12-11-2019	01-13-2021	12-11-2029	03-11-2021

Market Number	Channel Block	Sub-Market Designator
PEA112	C	0

Market Name
Bowling Green, KY

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WREV453 **File Number:** 0009262184 **Print Date:** 03-11-2021

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WRHF210	0010283156
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
06-04-2020	11-18-2022	06-04-2030	03-15-2023

Market Number	Channel Block	Sub-Market Designator
PEA112	M1	0

Market Name
Bowling Green, KY

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRHF210 **File Number:** 0010283156 **Print Date:** 03-15-2023

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WRNF682	
Radio Service PM - 3.7 GHz Service	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
07-23-2021	07-23-2021	07-23-2036	

Market Number	Channel Block	Sub-Market Designator
PEA112	A1	0

Market Name
Bowling Green, KY

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
07-23-2029	07-23-2033		

Waivers/Conditions:

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

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

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

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

FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNF682 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WRNF687	
Radio Service PM - 3.7 GHz Service	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
07-23-2021	07-23-2021	07-23-2036	

Market Number	Channel Block	Sub-Market Designator
PEA112	B1	0

Market Name
Bowling Green, KY

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
07-23-2029	07-23-2033		

Waivers/Conditions:

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

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

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

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FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNF687 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WRWD818	
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
09-23-2022	09-23-2022	12-18-2036	

Market Number	Channel Block	Sub-Market Designator
BEA071	C	10

Market Name
Nashville, TN-KY

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

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

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

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

FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRWD818 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

CK HENDRICKS CREEK

KY0117

1407 CHERRY TREE RD
BURKESVILLE, KY 42717
CUMBERLAND COUNTY

TENANT: CELLCO PARTNERSHIP d/b/a VERIZON
"CK HENDRICKS CREEK RELO"

NEW 197'-0" MONOPOLE TOWER w/2' LIGHTNING ROD
TOTAL TOWER HEIGHT 199'-0"

FROM CUMBERLAND COUNTY JUSTICE CENTER, 112 COURTHOUSE SQUARE, BURKESVILLE, KY 42717: HEAD SOUTHEAST ON HILL ST (187 FT). CONTINUE STRAIGHT ONTO KY-61 S/KY-90 E/N MAIN ST (0.6 MI). TURN RIGHT ONTO KY-61 S (9.5 MI). TURN LEFT ONTO STATE HWY 3108 (0.2 MI). TURN LEFT TO STAY ON STATE HWY 3108 (0.2 MI). TURN RIGHT TO STAY ON STATE HWY 3108 (1.2 MI). SITE IS ON THE RIGHT (SOUTH SIDE OF THE ROAD).

PREPARED BY: POWER OF DESIGN GROUP, LLC - (502) 437-5252

PROJECT SUMMARY

TOWERCO SITE
CK HENDRICKS CREEK
SITE ID: KY0117

VERIZON SITE
CK HENDRICKS CREEK RELO
FUZE ID: 17123679
MDG ID: 5000941735

E911 ADDRESS
1407 CHERRY TREE RD
BURKESVILLE, KY 42717
CUMBERLAND COUNTY

TOWER OWNER
TOWERCO
5000 VALLEYSTONE DR
CARY, NC 27519
CONTACT: EDWARD SCHAFER
PHONE: 336-325-1066
E-MAIL:
ESCHAFER@TOWERCO.COM

TENANT CONTACT
VERIZON
250 E 96TH ST, SUITE 300
INDIANAPOLIS, IN 46240
CONTACT: ALYSON WEHSOLLEK
PHONE: (317) 450-8094
E-MAIL: ALYSON.WEHSOLLEK@
VERIZONWIRELESS.COM

PROPERTY OWNER
FRANK A B BRENDEL JR AND PATRICIA H BRENDEL
945 HENDRICK'S CREEK ROAD
BURKESVILLE, KY 42717
CONTACT: PATTY BRENDEL
PHONE: (270) 433-7172 (O) / (270) 459-1139 (C)
E-MAIL: PATTY@HENDRICKSCREEK RESORT.COM

POLICE
CUMBERLAND COUNTY SHERIFF
600 COURTHOUSE SQ
BURKESVILLE, KY 42717
PHONE: (270) 864-4321

FIRE
ALBANY FIRE DEPARTMENT
700 TOWER ST
ALBANY, KY 42602
PHONE: (606) 387-9163

GENERAL INFORMATION
LATITUDE : 36.637721
LONGITUDE : -85.362868
1983 (NAD83)
ELEVATION : 985' AMSL
1988 (NAVD88)

TOWERCO LEASE AREA
(10,000 SF)

VERIZON LEASE AREA
(500SF)

PROJECT TOTAL DISTURBED AREA
COMPOUND: (7,500 SF) = (0.17 ACRE)
ACCESS DRIVE: N/A (EXISTING)
GROSS AREA: (7,500 SF) = (0.17 ACRE)

PROJECT DESCRIPTION

PROJECT DESCRIPTION:
ALL CONSTRUCTION ITEMS ARE TO BE COMPLETED BY THE TOWER OWNER GENERAL CONTRACTOR UNLESS NOTED AS (VZW GC) WHICH SHALL BE COMPLETED BY THE VERIZON WIRELESS GENERAL CONTRACTOR. GENERALLY DESCRIBED BELOW:

TOWERCO SCOPE (BTS GC):
- INSTALL A NEW 197' MONOPOLE W/ 2' LIGHTNING ROD (TOTAL 199'-0")
- INSTALL A NEW TOWER FOUNDATION SYSTEM
- INSTALL A NEW 80' X 55' FENCED GRAVEL COMPOUND
- NO WATER OR SEWAGE SERVICES RUN TO SITE
- INSTALL NEW TOWER & SITE GROUNDING SYSTEM
- INSTALL NEW VZW SUBSURFACE GROUNDING SYSTEM
- INSTALL NEW VZW CONCRETE EQUIPMENT & GENERATOR PADS
- INSTALL ALL ICE BRIDGE AND ICE BRIDGE FOUNDATIONS
- INSTALL VZW EQUIPMENT H-FRAME AND FOUNDATIONS
- INSTALL ELECTRICAL SERVICE CONDUIT WITH PULL TAPES FROM ILC ENCLOSURE STUB-UP TO UTILITY H-FRAME
- INSTALL NEW CONDUITS WITH PULL TAPES FROM VZW ILC STUB-UP LOCATION TO THE GENERATOR STUB-UP LOCATION AT VZW GENERATOR PAD
- INSTALL (2) 1-1/4" PVC FIBER CONDUITS w/PULL TAPES AND TRACER WIRE FROM H-FRAME HOFFMAN BOX TO VERIZON WIRELESS EQUIPMENT PAD LOCATION (PER PLANS).

VERIZON SCOPE (VZW GC):
- INSTALL VZW PREFABRICATED EQUIPMENT PAD CANOPY AND FOUNDATIONS
- INSTALL VZW ANTENNA MOUNTING SUPPORT STRUCTURE ON TOWER
- INSTALL VZW ANTENNAS, LINES, COAX, GPS ANTENNA AND RADIO EQUIPMENT
- INSTALL NEW GENERATOR ON EXISTING CONCRETE PAD
- INSTALL EXISTING SUBSURFACE GROUND LEADS TO VZW EQUIPMENT & FACILITIES
- INSTALL VZW ELECTRIC SERVICE CONDUCTORS FROM UTILITY H-FRAME TO VZW ILC ENCLOSURE
- INSTALL NEW CONDUITS WITH PULL TAPES FROM RF CABINET TO OVP H-FRAME LIT FIBER LOCATION
- INSTALL NEW CONDUITS AND CIRCUITS FROM VZW ILC ENCLOSURE TO EQUIPMENT ENCLOSURES AT VZW EQUIPMENT PAD
- INSTALL VZW GENERATOR CIRCUITS FROM VZW ILC & EQUIPMENT ENCLOSURES TO VZW GENERATOR
- INSTALL NEW OUTDOOR OVPs AND CABLING ON VERIZON EQUIPMENT H-FRAME

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	TIA/EIA-222 - REVISION G (INCLUDES ADDENDUM #2)
MECHANICAL CODE	2015 INTERNATIONAL MECHANICAL CODE (IMC 2015)
PLUMBING CODE	KENTUCKY STATE PLUMBING CODE (815 KAR CHAP. 20)
ELECTRICAL CODE	2017 NATIONAL ELECTRICAL CODE (NEC) - NFPA 70
FIRE/LIFE SAFETY CODE	2015 INTERNATIONAL FIRE CODE (2015 IFC)
ENERGY CODE	2012 INTERNATIONAL ENERGY CODE (COMMERCIAL)
GAS CODE	2012 NATIONAL FUEL GAS CODE (NFPA 54)

ACCESSIBILITY REQUIREMENTS:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2015 IBC BUILDING CODE.

APPLICABLE CODES

CONSULTANT TEAM

SURVEYOR
POWER OF DESIGN GROUP, LLC
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
PHONE: (502) 437-5252

ARCHITECTURAL
POWER OF DESIGN GROUP, LLC
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
PHONE: (502) 437-5252

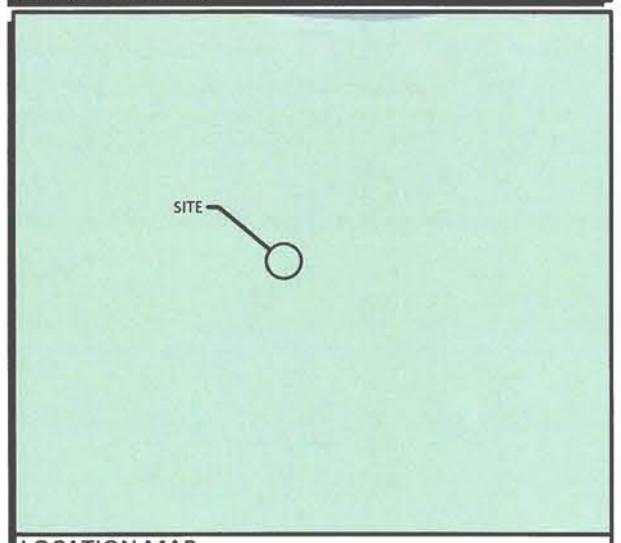
ELECTRICAL
TRI-COUNTY ELECTRIC
CONTACT: --
PHONE: (270) 864-3871
EMAIL: --

VERIZON POWER IS EXISTING

SHEET NUMBER	DESCRIPTION
T-1	PROJECT INFORMATION, SITE MAPS, & SHEET INDEX
R-1	REVISION LOG
B-1 TO B-1.2	SITE SURVEY
B-2	500' RADIUS AND ABUTTERS MAP
CIVIL	
C-1	OVERALL SITE PLAN w/DISTANCES (AERIAL OVERLAY)
C-1A	OVERALL SITE PLAN
C-3	DETAILED SITE PLAN
C-4	DIMENSIONED SITE PLAN
TOWER ELEVATION	
TE-1	TOWER ELEVATION

VICINITY MAP

LOCATION MAP



AERIAL

POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

TowerCo

STATE OF KENTUCKY
MARK E. PATTERSON
16,300
LICENSED PROFESSIONAL ENGINEER
01/09/2025
EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	12.9.24	ISSUED FOR REVIEW
0	12.17.24	ISSUED AS FINAL
1	1.9.25	ZONING ATTY REVIEW COMMENTS

SITE INFORMATION:
CK HENDRICKS CREEK
1407 CHERRY TREE RD
BURKESVILLE, KY 42717
CUMBERLAND COUNTY

TOWERCO SITE NUMBER:
KY0117

VERIZON SITE NAME:
CK HENDRICKS CREEK RELO

POD NUMBER: 24-170675
DRAWN BY: POD
CHECKED BY: MEP
DATE: 12-6-2024

SHEET TITLE:
PROJECT INFORMATION, SITE MAPS, SHEET INDEX

SHEET NUMBER:
T-1

REVISION LOG

REV	MM/DD/YYYY	SHEET NUMBER	DESCRIPTION OF REVISION
A	12.9.24	ALL SHEETS	ISSUED FOR REVIEW
0	12.17.24	ALL SHEETS	ISSUED AS FINAL
1	1.9.25	T-1	CHANGED DIRECTIONS FROM MTSO TO COUNTY SEAT PER ZONING ATTY REVIEW COMMENTS

POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

TowerCo

STATE OF KENTUCKY
MARK E. PATTERSON
16,300
LICENSED
PROFESSIONAL ENGINEER
01/09/2025
EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	12.9.24	ISSUED FOR REVIEW
0	12.17.24	ISSUED AS FINAL
1	1.9.25	ZONING ATTY REVIEW COMMENTS

SITE INFORMATION:
CK HENDRICKS CREEK

1407 CHERRY TREE RD
BURKESVILLE, KY 42717
CUMBERLAND COUNTY

TOWERCO SITE NUMBER:
KY0117

VERIZON SITE NAME:
CK HENDRICKS CREEK RELO

POD NUMBER:	24-170675
DRAWN BY:	POD
CHECKED BY:	MEP
DATE:	12-6-2024

SHEET TITLE:
REVISION LOG

SHEET NUMBER:
R-1

GENERAL NOTES

NO SEARCH OF PUBLIC RECORDS HAS BEEN COMPLETED BY POD GROUP TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE SUBJECT PROPERTY.

THIS DRAWING IS OF THE EXISTING LEASE AREA, EXISTING ACCESS AND UTILITY EASEMENT AND THE EXISTING CELLULAR ON WHEELS, AND ONLY A PARTIAL BOUNDARY SURVEY OF THE PARENT PARCEL HAS BEEN PERFORMED.

A PORTION OF THIS SURVEY WAS CONDUCTED BY METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. UNADJUSTED CLOSURE EQUALS 0.05', FOR A PRECISION OF 1:25,060 AND HAS NOT BEEN ADJUSTED.

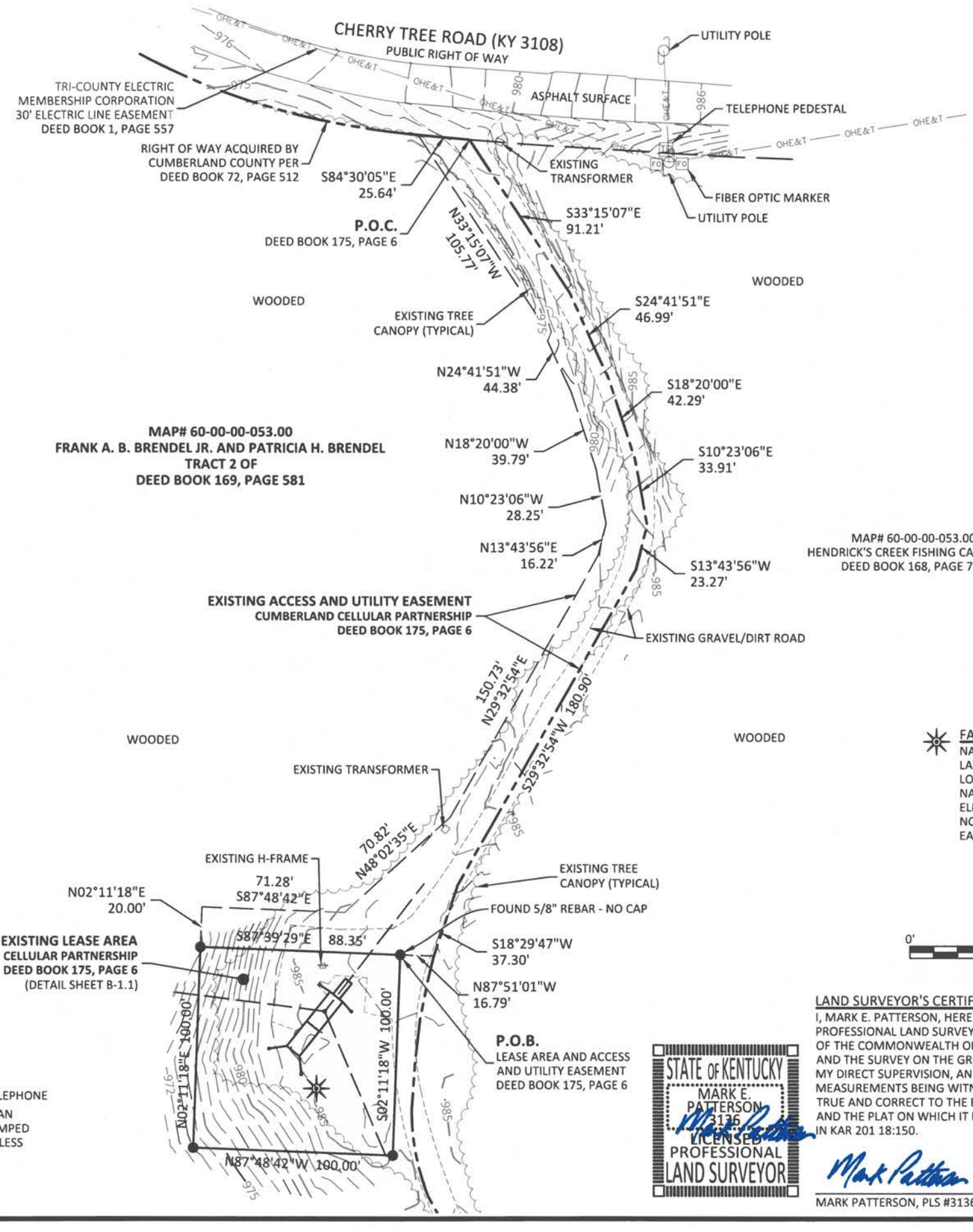
THIS PROPERTY IS SUBJECT TO ANY RECORDED EASEMENTS AND/OR RIGHTS OF WAY SHOWN HEREON OR NOT.

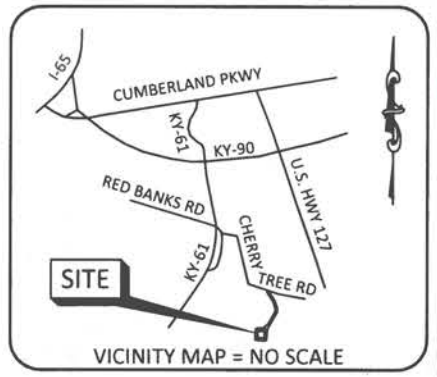
THIS PLAT IS NOT INTENDED FOR LAND TRANSFER.

THE PARENT PARCEL, THE EXISTING LEASE AREA AND THE EXISTING ACCESS & UTILITY EASEMENT SHOWN HEREON ARE NOT LOCATED IN A 100-YEAR FLOOD PLAIN (OTHER AREAS - ZONE X) PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 21057C0240D, DATED SEPTEMBER 19, 2012.

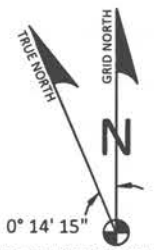
GLOBAL POSITIONING SYSTEMS NOTE

1. RANDOM CONTROL POINTS AND A PORTION OF THE TOPOGRAPHY WAS LOCATED USING GPS.
2. THE TYPE OF GPS UTILIZED WAS NETWORK ADJUSTED REAL TIME KINEMATIC (KYTC VRS NETWORK), NAD 83 KENTUCKY SINGLE ZONE WITH THE ORTHOMETRIC HEIGHT COMPUTED USING GEOID18. RELATIVE POSITIONAL ACCURACY VARIED FROM 0.04' TO 0.07' HORIZONTALLY.
3. SPECTRA PRECISION EPOCH 50 DUAL FREQUENCY RECEIVERS WERE USED TO PERFORM THE SURVEY.





VICINITY MAP = NO SCALE



BASED ON KENTUCKY STATE PLANE SINGLE ZONE AND DETERMINED BY GPS OBSERVATIONS COMPLETED ON AUGUST 14, 2024.

FAA COORDINATE POINT
NAD 83
LATITUDE: 36° 38' 15.796967"
LONGITUDE: -85° 21' 46.325680"
NAVD 88
ELEVATION: 985'± AMSL
NORTHING: 3,391,908.7060
EASTING: 5,034,854.3010

0' 60' 120'
1 INCH = 60 FEET

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

LEGEND

P.O.C. POINT OF COMMENCEMENT
P.O.B. POINT OF BEGINNING
OHE&T OHE&T OVERHEAD ELECTRIC & TELEPHONE
FOUND 5/8" REBAR WITH AN ORANGE PLASTIC CAP STAMPED "D.L. HELMS PLS 3386" UNLESS NOTED OTHERWISE
PROPERTY LINE
ADJACENT PROPERTY LINE

STATE OF KENTUCKY
MARK E. PATTERSON
3136
LICENSED PROFESSIONAL LAND SURVEYOR

LAND SURVEYOR'S CERTIFICATE

I, MARK E. PATTERSON, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR LICENSED IN COMPLIANCE WITH THE LAWS OF THE COMMONWEALTH OF KENTUCKY. I FURTHER CERTIFY THAT THIS PLAT AND THE SURVEY ON THE GROUND WERE PERFORMED BY PERSONS UNDER MY DIRECT SUPERVISION, AND THAT THE DIRECTIONAL AND LINEAR MEASUREMENTS BEING WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. THE "RURAL" SURVEY, AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECIFICATIONS AS STATED IN KAR 201 18:150.

Mark Patterson — 09/24/2024
MARK PATTERSON, PLS #3136 — DATE

PREPARED BY:
POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

PREPARED FOR:
CELLCO PARTNERSHIP D/B/A verizon

REVISIONS

REV.	DATE	DESCRIPTION
A	8.30.24	PRELIM ISSUE wTITLE
0	9.24.24	ISSUED FINAL

SITE INFORMATION:
CK HENDRICK'S CREEK RELO
1407 CHERRY TREE ROAD
BURKESVILLE, KY 42717
CUMBERLAND COUNTY

TAX MAP NUMBER:
060-00-00-053.00

PROPERTY OWNER:
FRANK A. B. BRENDEL, JR. AND PATRICIA H. BRENDEL
945 HENDRICK'S CREEK ROAD
BURKESVILLE, KY 42717

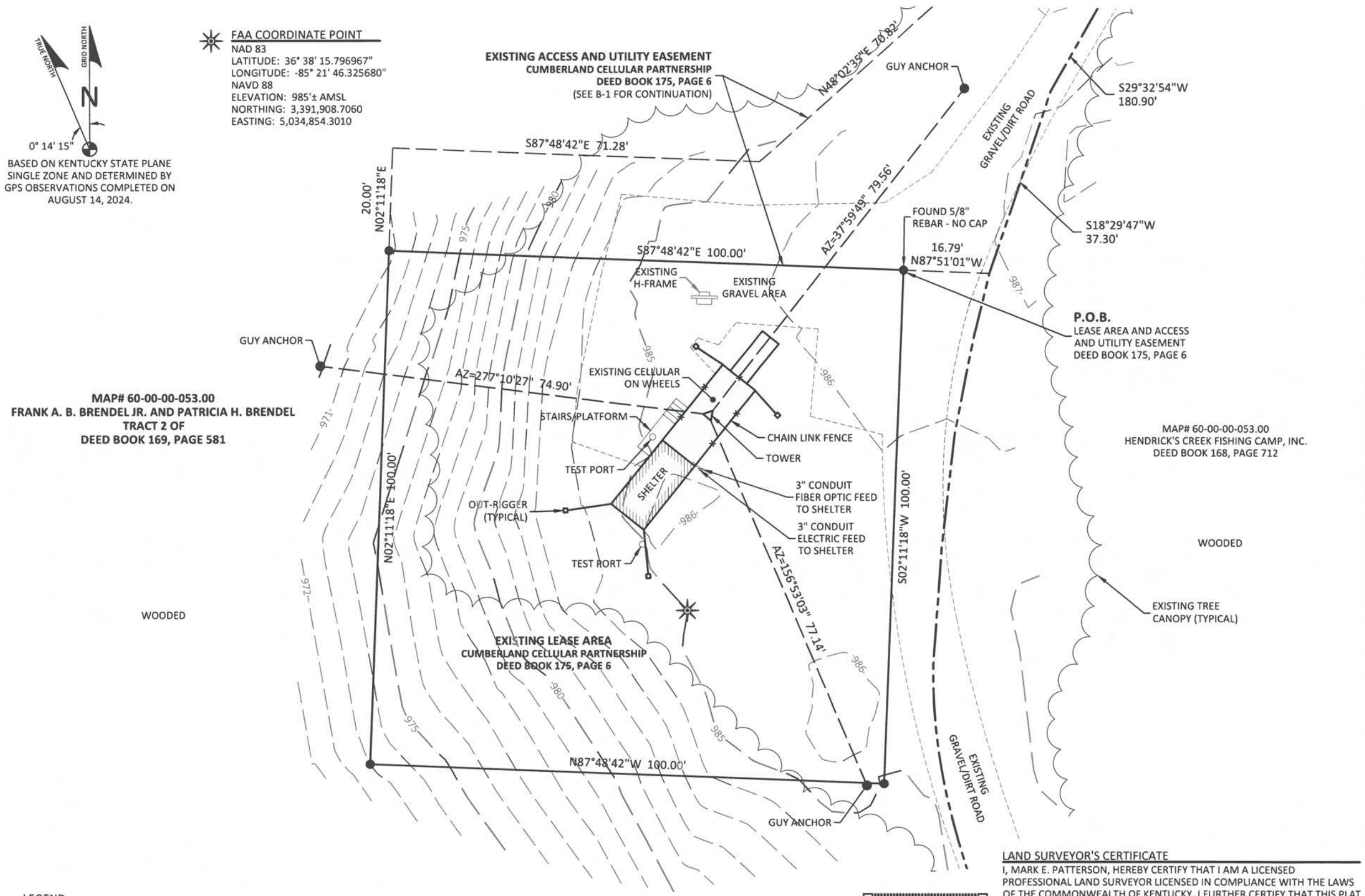
SOURCE OF TITLE:
DEED BOOK 169, PAGE 581

SITE NUMBER:
617414141

POD NUMBER:	24-170671
DRAWN BY:	TMD
CHECKED BY:	MEP
SURVEY DATE:	8.14.24
PLAT DATE:	8.30.24

SHEET TITLE:
SITE SURVEY
THIS DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL

SHEET NUMBER: (3 pages)
B-1



LEGEND

P.O.B. POINT OF BEGINNING

FOUND 5/8" REBAR WITH AN ORANGE PLASTIC CAP STAMPED "D.L. HELMS PLS 3386" UNLESS NOTED OTHERWISE

PROPERTY LINE

ADJACENT PROPERTY LINE

0' 20' 40'

1 INCH = 20 FEET

STATE OF KENTUCKY
MARK E. PATTERSON
3136
LICENSED
PROFESSIONAL
LAND SURVEYOR

LAND SURVEYOR'S CERTIFICATE

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Mark Patterson — 09/24/2024

MARK PATTERSON, PLS #3136 — DATE

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11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

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CUMBERLAND COUNTY

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060-00-00-053.00

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945 HENDRICK'S CREEK ROAD
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SOURCE OF TITLE:
DEED BOOK 169, PAGE 581

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617414141

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SURVEY DATE:	8.14.24
PLAT DATE:	8.30.24

SHEET TITLE:
SITE SURVEY
THIS DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL

SHEET NUMBER: (3 pages)
B-1.1

REPORT OF TITLE, MAP# 60-00-00-053.00, TRACT 2 OF DEED BOOK 169, PAGE 581

THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY POD GROUP, LLC. AND AS SUCH WE ARE NOT RESPONSIBLE FOR THE INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, UNRECORDED EASEMENTS, AUGMENTING EASEMENTS, IMPLIED OR PRESCRIPTIVE EASEMENTS, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE AND THIS SURVEY WAS COMPLETED WITH THE AID OF TITLE WORK PREPARED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY FOR THE BENEFIT OF COOTS, HENKE & WHEELER, P.C., ORDER NO. 5000004614, ISSUE DATE OF APRIL 4, 2024. THE FOLLOWING ITEMS ARE LISTED IN SAID REPORT.

SEARCH DISCLOSED THE FOLLOWING:

1. TYPE OF TAX: COUNTY
   CALENDAR YEAR: 2023
   AMOUNT: $7,004.99 ANNUALLY
   PARCEL ID #: 060-00-00-075.01
   PAID THROUGH: 2023
   ASSESSMENT: $1,005,000.00 (TOTAL = LAND AND IMPROVEMENTS, IF ANY)
   (NOT A LAND SURVEYING MATTER.)

2. TAXES
   TYPE OF TAX: COUNTY
   CALENDAR YEAR: 2023
   AMOUNT: $355.50 ANNUALLY
   PARCEL ID #: 060-00-00-053.00 (CELL TOWER)
   PAID THROUGH: 2023
   ASSESSMENT: $5,000,000.00 (TOTAL = LAND AND IMPROVEMENTS, IF ANY)
   (NOT A LAND SURVEYING MATTER.)

3. RIGHT OF WAY DEED IN FAVOR OF COUNTY OF CUMBERLAND, KENTUCKY SET FORTH IN INSTRUMENT RECORDED ON MAY 14, 1970 IN DEED BOOK 72, PAGE 512. **(AFFECTS THE SUBJECT PARCEL AND IS SHOWN HEREON.)**

4. GRANT OF ELECTRIC LINE EASEMENT IN FAVOR OF TRI-COUNTY ELECTRIC MEMBERSHIP CORPORATION, A COOPERATIVE CORPORATION SET FORTH IN INSTRUMENT RECORDED ON NOVEMBER 18, 1998 IN DEED BOOK 1, PAGE 557. **(EASEMENT DOES NOT AFFECT THE PARENT PARCEL, THE EXISTING LEASE AREA OR THE EXISTING ACCESS AND UTILITY EASEMENT. EASEMENT LAYS WITHIN THE RIGHT OF WAY OF CEDAR TREE ROAD AS ACQUIRED BY CUMBERLAND COUNTY PER DEED BOOK 72, PAGE 512.)**

5. NOTICE OF STATE TAX LIEN FILED BY TENNESSEE DEPARTMENT OF REVENUE, AGAINST STEPHEN E. JOHNSON, FRANK A. BRENDEL D/B/A STATE LINE MARKET, DATED JANUARY 8, 2015 AND RECORDED ON JANUARY 21, 2015, IN DEED BOOK 16, PAGE 650. **(NOT A LAND SURVEYING MATTER.)**

6. NOTICE OF STATE TAX LIEN FILED BY COMMONWEALTH OF KENTUCKY AGAINSTHENDRICKS CREEK RESORT INC., HENDRICKS CREEK FISHING CAMP, INC., RECORDED ON FEBRUARY 11, 2016, IN DEED BOOK 17, PAGE 277. **(NOT A LAND SURVEYING MATTER.)**

7. TERMS AND CONDITIONS OF MEMORANDUM OF LEASE DATED DECEMBER 14, 2016 BY AND BETWEEN FRANK A.B. BRENDEL, JR. & PATRICIA H. BRENDEL, AND CUMBERLAND CELLULAR PARTNERSHIP, (A KENTUCKY GENERAL PARTNERSHIP), RECORDED ON JUNE 17, 2019 IN DEED BOOK 175, PAGE 6. **(AFFECTS THE SUBJECT PARCEL AND IS SHOWN HEREON.)**

LAND SURVEYOR'S CERTIFICATE

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09/24/2024

MARK PATTERSON, PLS #3136 — DATE

STATE OF KENTUCKY
MARK E. PATTERSON
3136
LICENSED
PROFESSIONAL
LAND SURVEYOR

PREPARED BY:
POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

PREPARED FOR:
CELLCO PARTNERSHIP D/B/A verizon

REVISIONS

REV.	DATE	DESCRIPTION
A	8.30.24	PRELIM ISSUE wTITLE
0	9.24.24	ISSUED FINAL

SITE INFORMATION:
CK HENDRICK'S CREEK RELO
1407 CHERRY TREE ROAD
BURKESVILLE, KY 42717
CUMBERLAND COUNTY

TAX MAP NUMBER:
060-00-00-053.00

PROPERTY OWNER:
FRANK A. B. BRENDEL, JR. AND PATRICIA H. BRENDEL
945 HENDRICK'S CREEK ROAD
BURKESVILLE, KY 42717

SOURCE OF TITLE:
DEED BOOK 169, PAGE 581

SITE NUMBER:
617414141

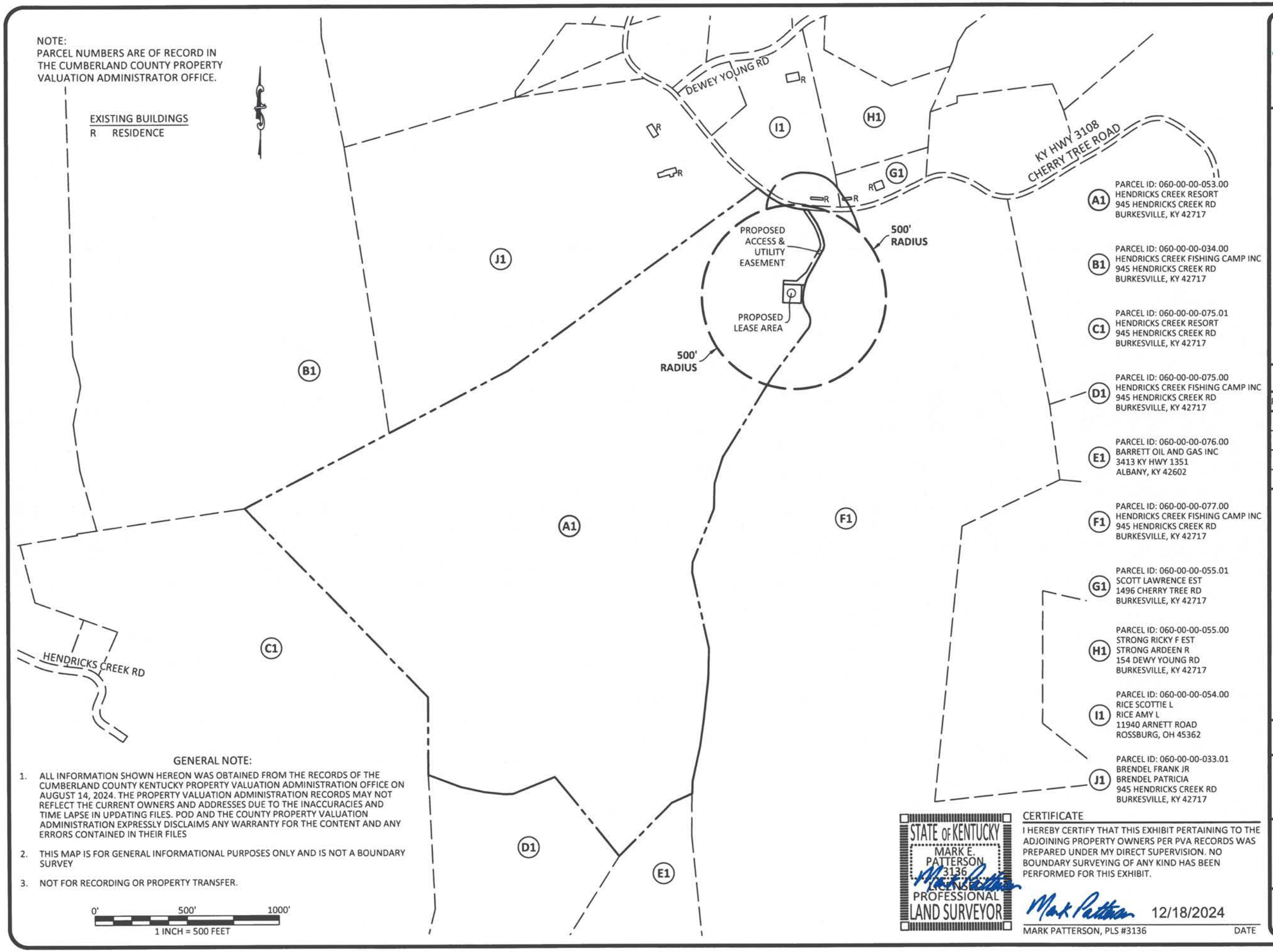
POD NUMBER:	24-170671
DRAWN BY:	TMD
CHECKED BY:	MEP
SURVEY DATE:	8.14.24
PLAT DATE:	8.30.24

SHEET TITLE:
SITE SURVEY
THIS DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL

SHEET NUMBER: (3 pages)
B-1.2

NOTE:
PARCEL NUMBERS ARE OF RECORD IN THE CUMBERLAND COUNTY PROPERTY VALUATION ADMINISTRATOR OFFICE.

EXISTING BUILDINGS
R RESIDENCE



A1 PARCEL ID: 060-00-00-053.00
HENDRICKS CREEK RESORT
945 HENDRICKS CREEK RD
BURKESVILLE, KY 42717

B1 PARCEL ID: 060-00-00-034.00
HENDRICKS CREEK FISHING CAMP INC
945 HENDRICKS CREEK RD
BURKESVILLE, KY 42717

C1 PARCEL ID: 060-00-00-075.01
HENDRICKS CREEK RESORT
945 HENDRICKS CREEK RD
BURKESVILLE, KY 42717

D1 PARCEL ID: 060-00-00-075.00
HENDRICKS CREEK FISHING CAMP INC
945 HENDRICKS CREEK RD
BURKESVILLE, KY 42717

E1 PARCEL ID: 060-00-00-076.00
BARRETT OIL AND GAS INC
3413 KY HWY 1351
ALBANY, KY 42602

F1 PARCEL ID: 060-00-00-077.00
HENDRICKS CREEK FISHING CAMP INC
945 HENDRICKS CREEK RD
BURKESVILLE, KY 42717

G1 PARCEL ID: 060-00-00-055.01
SCOTT LAWRENCE EST
1496 CHERRY TREE RD
BURKESVILLE, KY 42717

H1 PARCEL ID: 060-00-00-055.00
STRONG RICKY F EST
STRONG ARDEEN R
154 DEWY YOUNG RD
BURKESVILLE, KY 42717

I1 PARCEL ID: 060-00-00-054.00
RICE SCOTTIE L
RICE AMY L
11940 ARNETT ROAD
ROSSBURG, OH 45362

J1 PARCEL ID: 060-00-00-033.01
BRENDEL FRANK JR
BRENDEL PATRICIA
945 HENDRICKS CREEK RD
BURKESVILLE, KY 42717

GENERAL NOTE:

1. ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE CUMBERLAND COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON AUGUST 14, 2024. THE PROPERTY VALUATION ADMINISTRATION RECORDS MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO THE INACCURACIES AND TIME LAPSE IN UPDATING FILES. POD AND THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIMS ANY WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES
2. THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY
3. NOT FOR RECORDING OR PROPERTY TRANSFER.

0' 500' 1000'
1 INCH = 500 FEET

STATE OF KENTUCKY
MARK E. PATTERSON
3136
LICENSED
PROFESSIONAL
LAND SURVEYOR

CERTIFICATE

I HEREBY CERTIFY THAT THIS EXHIBIT PERTAINING TO THE ADJOINING PROPERTY OWNERS PER PVA RECORDS WAS PREPARED UNDER MY DIRECT SUPERVISION. NO BOUNDARY SURVEYING OF ANY KIND HAS BEEN PERFORMED FOR THIS EXHIBIT.

Mark Patterson 12/18/2024
MARK PATTERSON, PLS #3136 DATE

PREPARED BY:
POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

PREPARED FOR:
CELLCO PARTNERSHIP D/B/A verizon

REVISIONS

REV.	DATE	DESCRIPTION
A	11.13.24	ISSUED FOR REVIEW
0	12.18.24	ISSUED FINAL

SITE INFORMATION:
CK HENDRICK'S CREEK RELO
1407 CHERRY TREE ROAD
BURKESVILLE, KY 42717
CUMBERLAND COUNTY

TAX MAP NUMBER:
060-00-00-053.00

PROPERTY OWNER:
FRANK A. B. BRENDEL, JR. AND PATRICIA H. BRENDEL
945 HENDRICK'S CREEK ROAD
BURKESVILLE, KY 42717

SOURCE OF TITLE:
DEED BOOK 169, PAGE 581

SITE NUMBER:
617414141

POD NUMBER:	24-170674
DRAWN BY:	DAP
CHECKED BY:	MEP
SURVEY DATE:	8.14.24
PLAT DATE:	11.13.24

SHEET TITLE:
500' RADIUS AND ABUTTERS MAP

SHEET NUMBER: (1 page)
B-2

DISTANCES TO PROPERTY LINES		
PROPERTY LINE	EQUIPMENT CABINET	GENERATOR
NORTH	±475'	±459'
EAST	±32'	±28'
SOUTHWEST	±2955'	±2967'
NORTHWEST	±684'	±664'

Kentucky 811
Know what's below. Call before you dig.
Call Monday thru Friday – 7 am. to 6 pm.
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

OVERALL SITE PLAN w/DISTANCES

SCALE: 1" = 200'

N

0' 200' 400'
1"=200'

POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

TowerCo

STATE OF KENTUCKY
MARK E. PATTERSON
16,300
LICENSED PROFESSIONAL ENGINEER
01/09/2025
EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	12.9.24	ISSUED FOR REVIEW
0	12.17.24	ISSUED AS FINAL
1	1.9.25	ZONING ATTY REVIEW COMMENTS

SITE INFORMATION:
CK HENDRICKS CREEK

1407 CHERRY TREE RD
BURKESVILLE, KY 42717
CUMBERLAND COUNTY

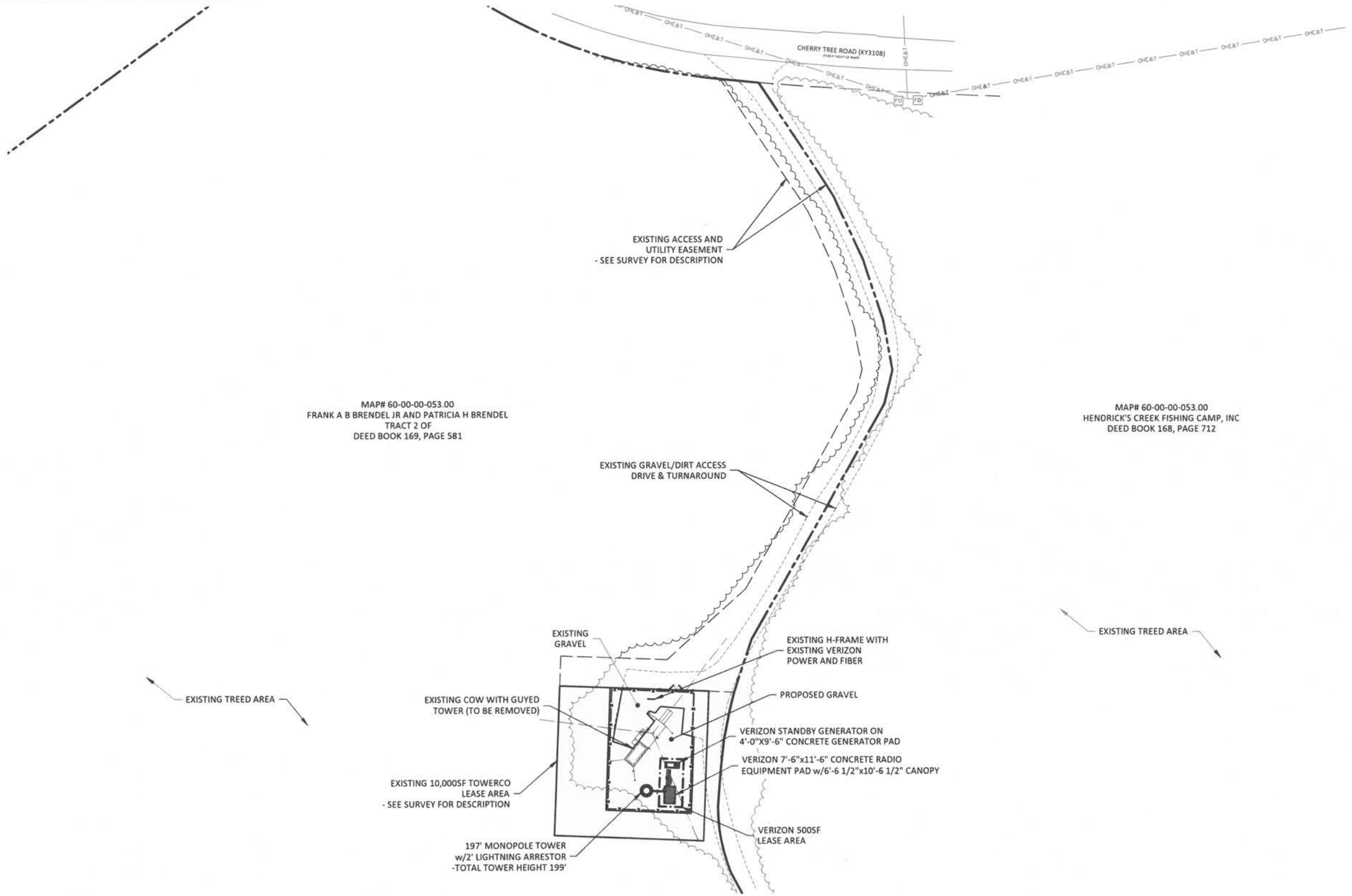
TOWERCO SITE NUMBER:
KY0117

VERIZON SITE NAME:
CK HENDRICKS CREEK RELO

POD NUMBER:	24-170675
DRAWN BY:	POD
CHECKED BY:	MEP
DATE:	12-6-2024

SHEET TITLE:
OVERALL SITE PLAN w/DISTANCES

SHEET NUMBER:
C-1



OVERALL SITE PLAN

SCALE: 1" = 70'

0' 70' 140'

1"=70'

LEGEND

- EXISTING LEASE LINE
- EXISTING EASEMENT
- EXISTING GRAVEL
- PROPOSED GRAVEL
- PROPOSED FENCE
- EXISTING OVERHEAD ELECTRIC
- EXISTING OVERHEAD ELECTRIC & TELCO
- EXISTING PAVEMENT
- PROPERTY LINE

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CUMBERLAND COUNTY

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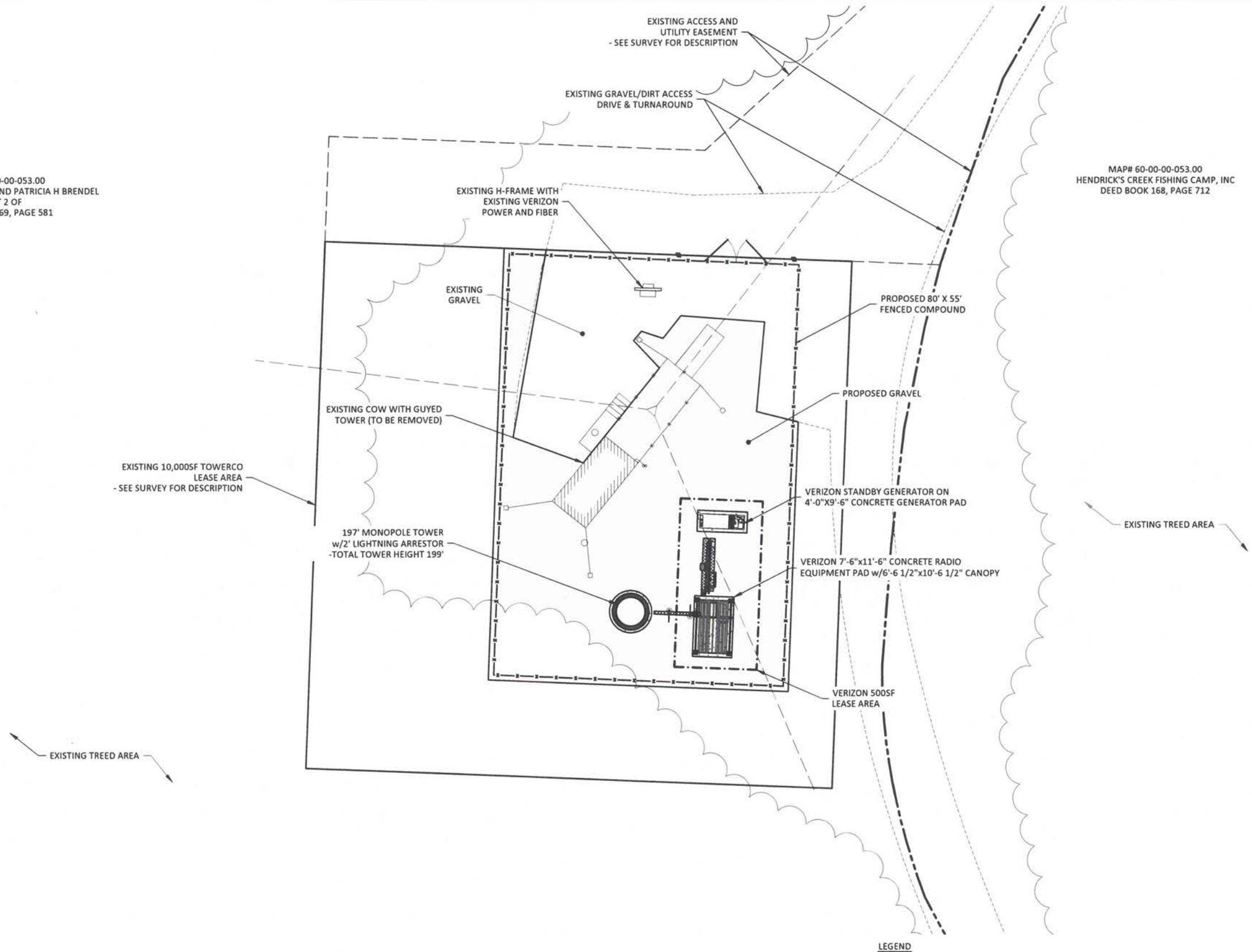
DRAWN BY:	POD
CHECKED BY:	MEP
DATE:	12-6-2024

SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
C-1A



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1-800-752-6007
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*NOTE:
GENERAL CONTRACTOR IS TO ENSURE THERE IS NO DISTURBANCE OF PROPERTY, SOIL, ETC. OUTSIDE OF THE STAKED LEASE AREA WITHOUT APPROVAL FROM VERIZON CONSTRUCTION MANAGER

DETAILED SITE PLAN

SCALE: 1" = 20'

0' 20' 40'
1"=20'

N

LEGEND
- EXISTING LEASE LINE
- EXISTING EASEMENT
- EXISTING GRAVEL
- PROPOSED GRAVEL
- PROPOSED FENCE
- PROPERTY LINE

POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

TowerCo

STATE OF KENTUCKY
MARK E. PATTERSON
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ZONING DRAWINGS

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1	1.9.25	ZONING ATTY REVIEW COMMENTS

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BURKESVILLE, KY 42717
CUMBERLAND COUNTY

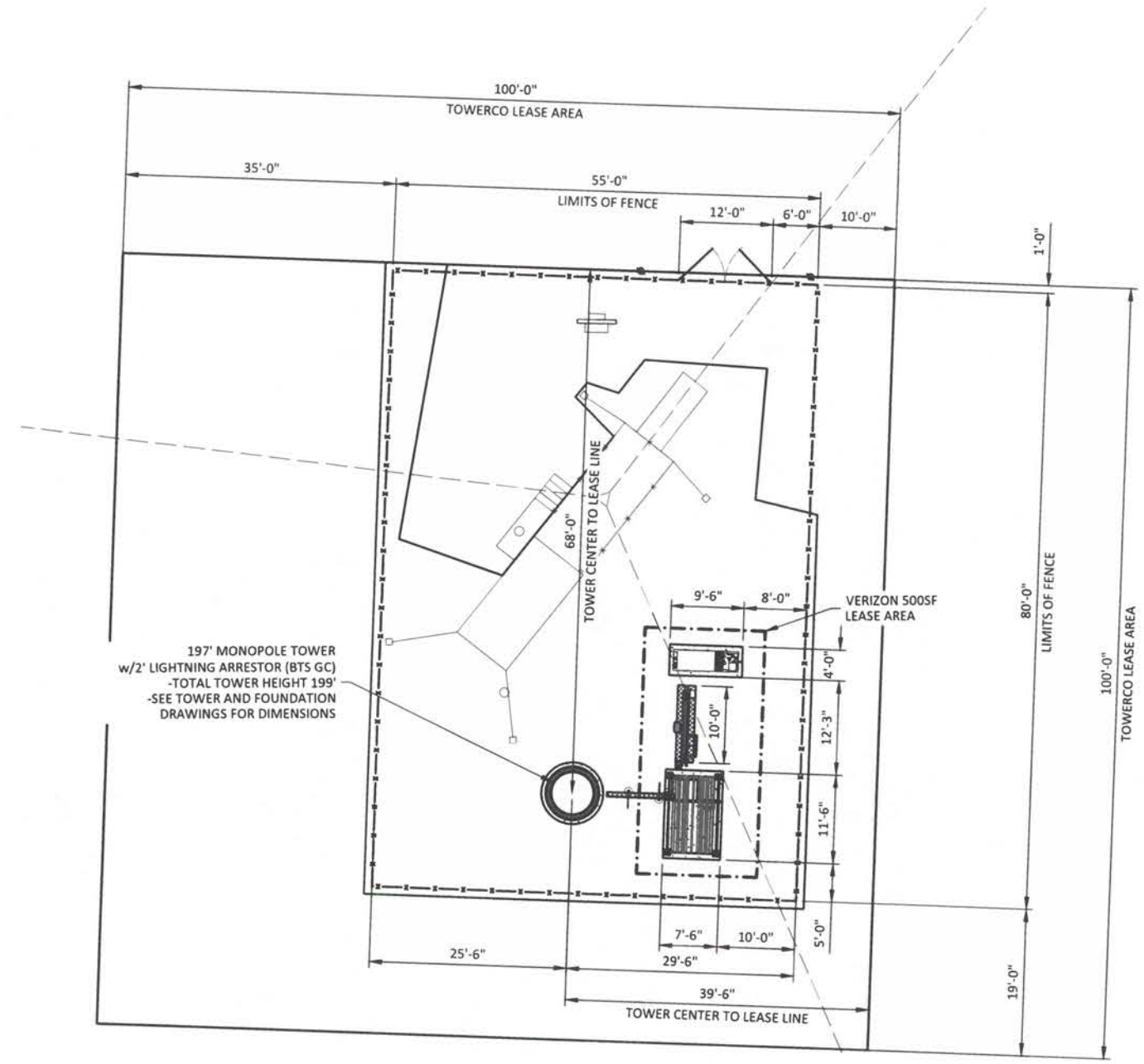
TOWERCO SITE NUMBER:
KY0117

VERIZON SITE NAME:
CK HENDRICKS CREEK RELO

POD NUMBER:	24-170675
DRAWN BY:	POD
CHECKED BY:	MEP
DATE:	12-6-2024

SHEET TITLE:
DETAILED SITE PLAN

SHEET NUMBER:
C-3



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CUMBERLAND COUNTY

TOWERCO SITE NUMBER:
KY0117

VERIZON SITE NAME:
CK HENDRICKS CREEK RELO

POD NUMBER:	24-170675
DRAWN BY:	POD
CHECKED BY:	MEP
DATE:	12-6-2024

SHEET TITLE:
DIMENSIONED SITE PLAN

SHEET NUMBER:
C-4

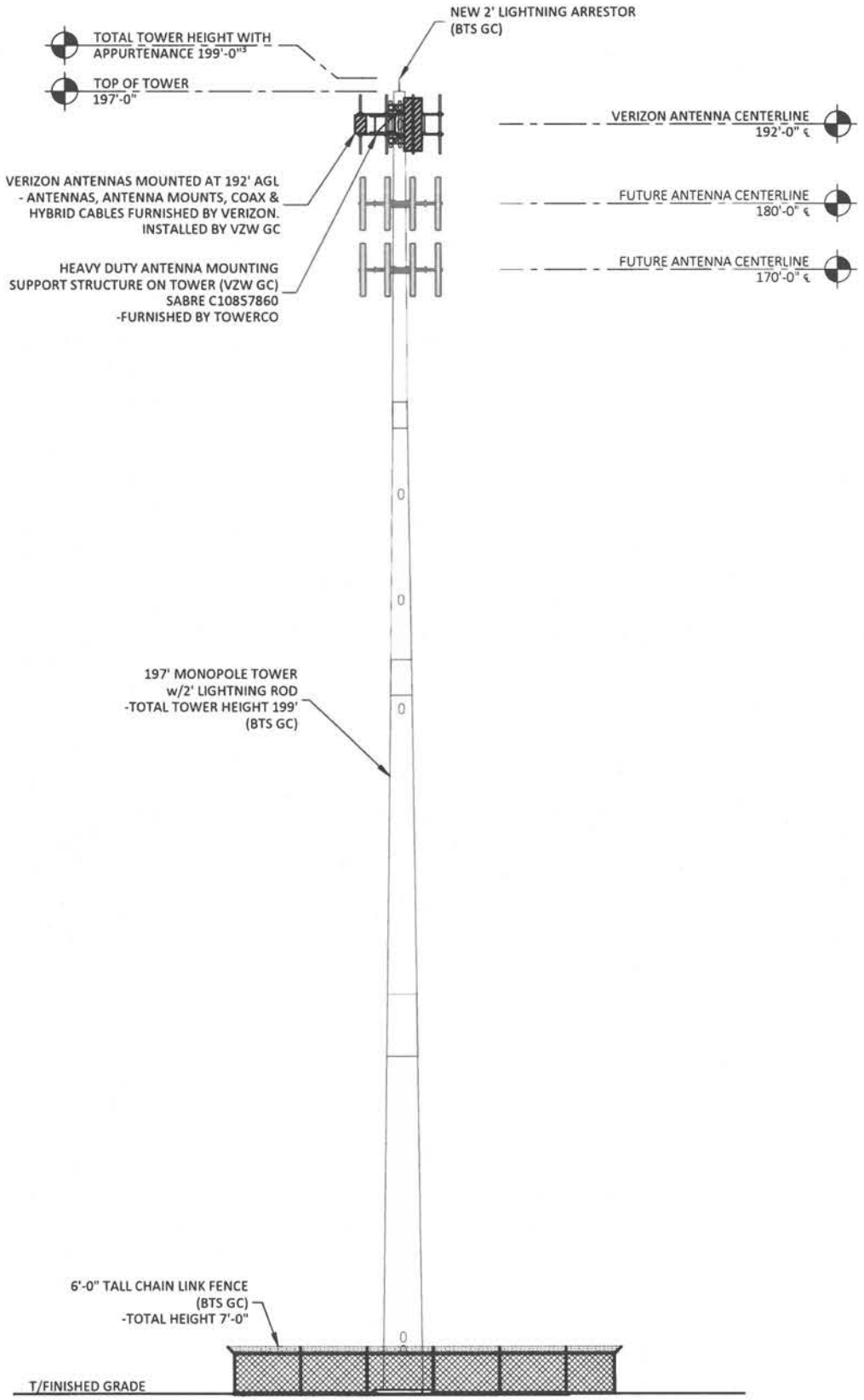
Kentucky 811
Know what's below.
Call before you dig.
Call Monday thru Friday – 7 am. to 5 pm.
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

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

DIMENSIONED SITE PLAN
SCALE: 1" = 20'

0' 20' 40'
1"=20'

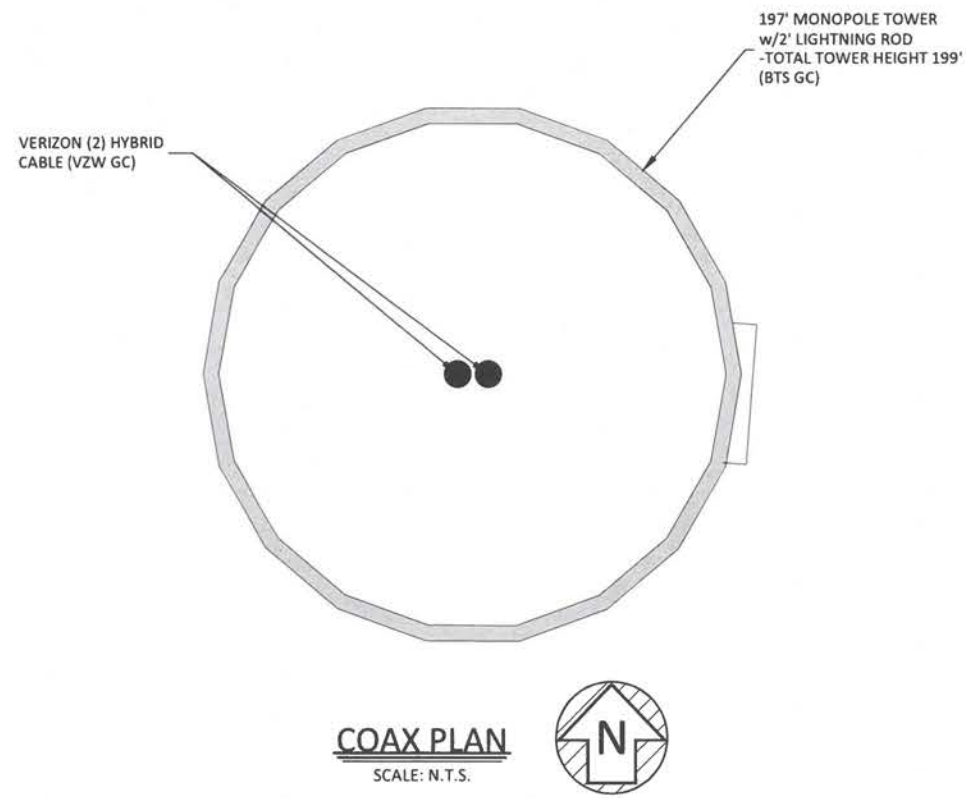
N



TOWER ELEVATION 1 / TE-1
SCALE: N.T.S.

NOTE:

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



COAX PLAN
SCALE: N.T.S.

POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

TowerCo

STATE OF KENTUCKY
MARK E. PATTERSON
16,300
LICENSED PROFESSIONAL ENGINEER
01/09/2025
EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	12.9.24	ISSUED FOR REVIEW
0	12.17.24	ISSUED AS FINAL
1	1.9.25	ZONING ATTY REVIEW COMMENTS

SITE INFORMATION:
CK HENDRICKS CREEK
1407 CHERRY TREE RD
BURKESVILLE, KY 42717
CUMBERLAND COUNTY

TOWERCO SITE NUMBER:
KY0117

VERIZON SITE NAME:
CK HENDRICKS CREEK RELO

POD NUMBER:	24-170675
DRAWN BY:	POD
CHECKED BY:	MEP
DATE:	12-6-2024

SHEET TITLE:
TOWER ELEVATION

SHEET NUMBER:
TE-1

SITE: HENDRICKS CREEK

Lease Boundary and Topographic Survey

Cumberland County, Kentucky

Basis of Bearings

The bearing system of this survey is based upon the Kentucky State Plane Coordinate System, South Zone, NAD 83 (2011), as determined by G.P.S. observations made on February 17, 2017 using the Kentucky Transportation Cabinet's KYCORS NAD83 2011 Network. This bearing system is grid north.

Tower Location Information

Designation: Hendricks Creek
Site ID#: None
Horizontal Datum: NAD 83 (2011)
Latitude: 36°38'15.98" North
Longitude: 85°21'46.45" West
Vertical Datum: NAVD 88
Ground Elevation: 984.1 feet (299.95 m)

State Plane Coordinates
Northing: 1,751,491.48 feet (533,855.671 m)
Easting: 1,753,997.80 feet (534,619.599 m)

Landowner Information

Landowner: Frank A.B. Brendel, Jr., et al.

Address: 945 Hendricks Creek Road
Burkesville, KY 42717

Contact Person: Pat Brendel
Phone: 270-433-7172 or 270-459-1139

PVA Map No. 060-00-00-053.00

Project Bench Mark

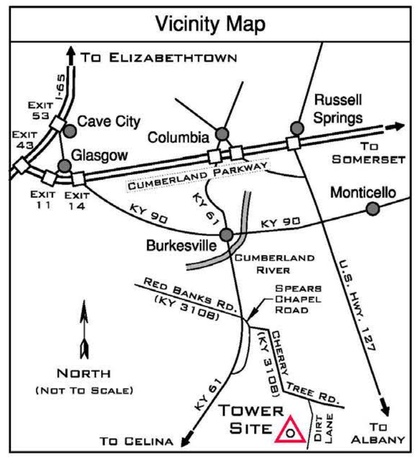
Northing: 1,751,535 feet (533,869 m)
Easting: 1,754,083 feet (534,646 m)
Elevation: 987.98 feet (301.137 m)

Description: A 1/2" square iron spike, set 12" above grade, in the southeast side of an 8" tree. The benchmark lies 95' northeast of the center of the tower.

Flood Plain Statement

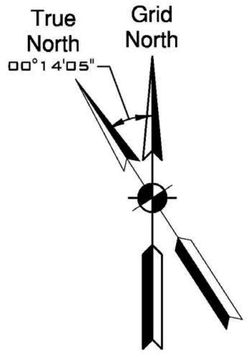
According to the Flood Insurance Rate Map for Cumberland County, Kentucky, Map No. 21057C0240D, dated September 19, 2012, the subject site lies within "Other Areas - Zone X", which is defined as "Areas determined to be outside the 0.2% annual chance flood".

Vicinity Map



Directions

From Elizabethtown, Kentucky: travel south on I-65 to Exit 43 and the Cumberland Parkway; travel east on the Cumberland Parkway to Exit 14 and Kentucky Highway 90 at Glasgow; travel east on Kentucky Highway 90 to the Cumberland County Courthouse in Burkesville; continue through Burkesville on Kentucky Highways 90 and 61 for 0.6 miles to the south intersection of Kentucky Highways 90 and 61; turn right onto Kentucky Highway 61 and travel south for 9.2 miles to Spears Chapel Road (Kentucky Highway 3108); turn left onto Spears Chapel Road and travel southerly for 0.1 miles to Cherry Tree Road (Kentucky Highway 3108); turn left onto Cherry Tree Road and travel southeast for 1.3 miles to a dirt lane on the right or south side of the road; turn right onto the lane and travel south for 500 feet to the tower site in a wooded area on a ridge.



GRAPHIC SCALE

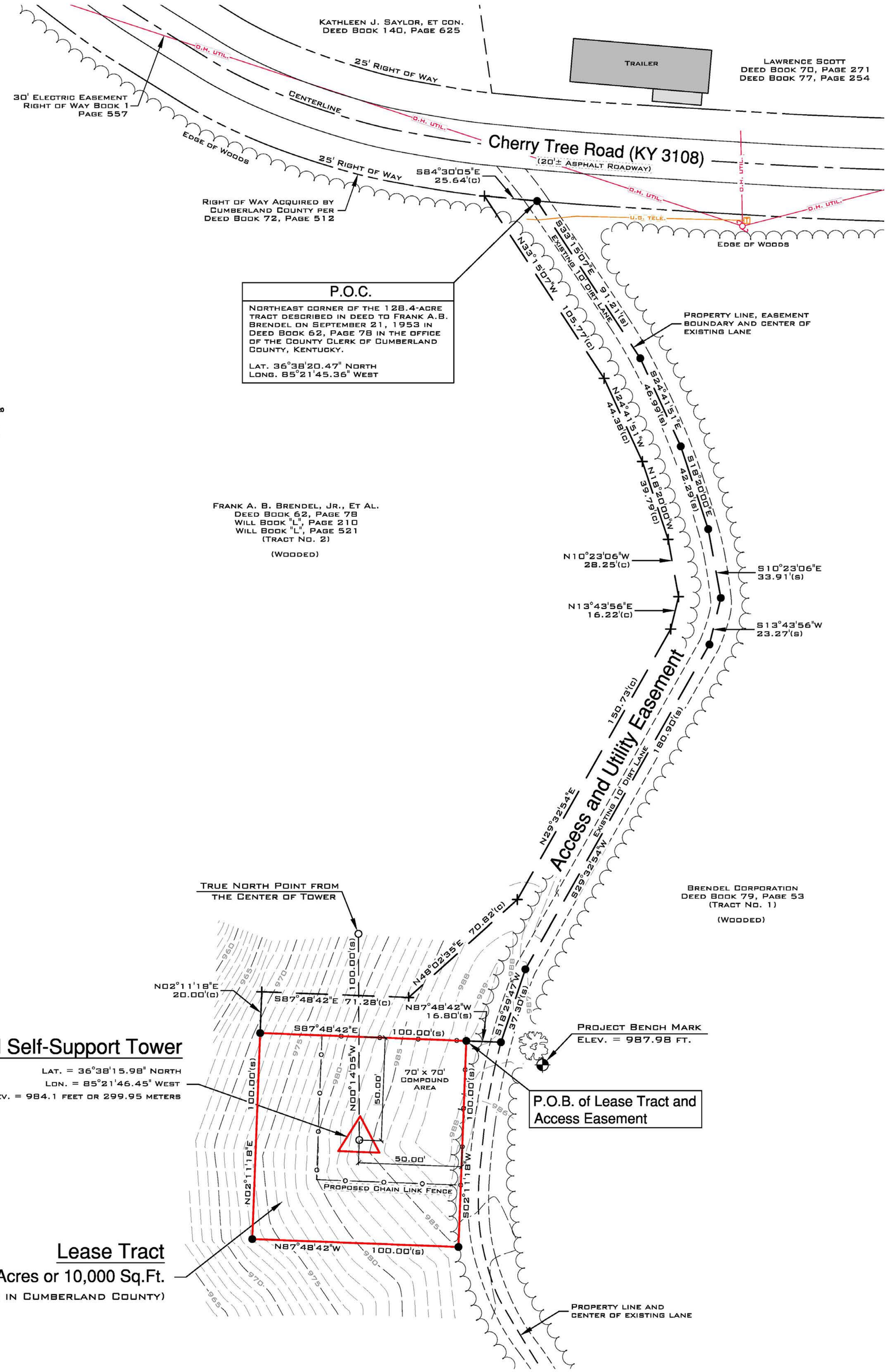
30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Contour Interval = 1-foot

Legend

- 5/8" Rebar Set Flush, 24" In Length, With A Survey Cap Inscribed "D.L. Helms PLS 3386"
- 5/8" Rebar Set Flush - No Cap
- Calculated Position - No Monument Found Or Set
- Lease Boundaries
- Proposed Easement Boundaries
- Existing Easement Boundaries
- Property Lines
- Right Of Way
- Utility Pole
- Utility As Noted
- Telephone Pedestal



Lease Boundary and Easement Descriptions

A tract of land that is located 1,300 feet southeast of the intersection of Cherry Tree Road (Kentucky Highway 3108) and Dewey Young Road in the Peytonsburg Community of Cumberland County, Kentucky; said tract being described as follows:

Commencing at a 5/8-inch rebar set flush with a survey cap inscribed "D.L. Helms PLS 3386" (referred to as a rebar set in the remainder of this description) on the south right of way of Cherry Tree Road (Kentucky Highway 3108), being 25 feet from the centerline of said road, at the northeast corner of the 128.4-acre tract described in deed to Frank A. B. Brendel on September 21, 1953 in Deed Book 62, Page 78 in the office of the County Clerk of Cumberland County, Kentucky; said corner has a Latitude of 36°38'20.47" North and a Longitude of 85°21'45.36" West; thence along the east boundary of said 128.4-acre tract, which is the center of an existing dirt lane, the following seven (7) courses: (1) South 33 degrees 15 minutes 07 seconds East 91.21 feet to a rebar set flush; (2) South 24 degrees 41 minutes 51 seconds East 46.99 feet to a rebar set flush; (3) South 18 degrees 20 minutes 00 seconds East 42.29 feet to a rebar set flush; (4) South 10 degrees 23 minutes 06 seconds East 33.91 feet to a rebar set flush; (5) South 13 degrees 43 minutes 56 seconds West 23.27 feet to a rebar set flush; (6) South 29 degrees 32 minutes 54 seconds West 180.90 feet to a rebar set flush and (7) South 18 degrees 29 minutes 47 seconds West 37.30 feet to a rebar set flush; thence, leaving said east boundary, North 87 degrees 48 minutes 42 seconds West 16.80 feet to a rebar set flush at the POINT OF BEGINNING of this description; thence South 02 degrees 11 minutes 18 seconds West 100.00 feet to a rebar set flush; thence North 87 degrees 48 minutes 42 second West 100.00 feet to a rebar set flush; thence North 02 degrees 11 minutes 18 seconds East 100.00 feet to a rebar set flush; thence South 87 degrees 48 minutes 42 second East 100.00 feet to the point of beginning and containing 0.230 acres (10,000 square feet), more or less.

Together with an access and utility easement from the above-described 0.230-acre lease tract to Cherry Tree Road (Kentucky Highway 3108); said easement being described as follows: Beginning at a 5/8-inch rebar set flush with a survey cap inscribed "D.L. Helms PLS 3386" (referred to as a rebar set in the remainder of this description) at the northeast corner of the above-described 0.230-acre lease tract; thence North 87 degrees 48 minutes 42 seconds West 100.00 feet to a rebar set flush at the northwest corner of the above-described 0.230-acre lease tract; thence North 02 degrees 11 minutes 18 seconds East 20.00 feet; thence South 87 degrees 48 minutes 42 seconds East 71.28 feet; thence North 48 degrees 02 minutes 35 seconds East 70.82 feet; thence North 29 degrees 32 minutes 54 seconds East 150.73 feet; thence North 13 degrees 43 minutes 56 seconds East 16.22 feet; thence North 10 degrees 23 minutes 06 seconds West 28.25 feet; thence North 18 degrees 20 minutes 00 seconds West 39.79 feet; thence North 24 degrees 41 minutes 51 seconds West 44.38 feet; thence North 33 degrees 15 minutes 07 seconds West 105.77 feet to the south right of way of Cherry Tree Road, being 25 feet from the centerline; thence, along said south right of way, South 84 degrees 30 minutes 05 seconds East 25.64 feet to a rebar set flush at the northeast corner of said 128.4-acre tract; thence along the east boundary of said 128.4-acre tract, which is the center of an existing dirt lane, the following seven (7) courses: (1) South 33 degrees 15 minutes 07 seconds East 91.21 feet to a rebar set flush; (2) South 24 degrees 41 minutes 51 seconds East 46.99 feet to a rebar set flush; (3) South 18 degrees 20 minutes 00 seconds East 42.29 feet to a rebar set flush; (4) South 10 degrees 23 minutes 06 seconds East 33.91 feet to a rebar set flush; (5) South 13 degrees 43 minutes 56 seconds West 23.27 feet to a rebar set flush; (6) South 29 degrees 32 minutes 54 seconds West 180.90 feet to a rebar set flush and (7) South 18 degrees 29 minutes 47 seconds West 37.30 feet to a rebar set flush; thence, leaving said east boundary, North 87 degrees 48 minutes 42 seconds West 16.80 feet to the point of beginning.

The bearing system of these descriptions is based upon the Kentucky State Plane Coordinate System, South Zone, NAD 83 (2011), as determined by G.P.S. observations made on February 17, 2017 using the Kentucky Transportation Cabinet's KYCORS NAD83 2011 Network. This bearing system is grid north.

These descriptions are based upon a survey completed by Landmark Surveying Co., Inc. and certified by Darren L. Helms, P.L.S. 3386, on March 6, 2017.

Surveyor's Notes

1. The encumbrances and owner of the subject tract, shown hereon, are based upon a title search completed by Abstracts & Titles, Inc. of Louisville, Kentucky, dated February 22, 2017, Exam No. 224791.

2. No search of public records has been performed by Landmark Surveying Co., Inc. to determine any defects and/or ambiguities in the title of the parent tract.

3. The utilities shown on this plat may or may not represent all of the utilities located on the subject site. The presence of utilities was determined by a visual inspection of the property surface. No utility locate was called in prior to this survey. It shall be the responsibility of the contractor to locate utilities prior to construction.

4. The topographic information contained on this plat was as requested by the client and may or may not represent all of the topographic features located on the subject property.

5. According to Mr. John A. Phelps Jr., County Judge Executive of Cumberland County, no local planning unit exists which has geographical jurisdiction of the subject tower site. The County Judge Executive's Office may be contacted at (270) 864-3444 for confirmation.

6. The proposed location of the Hendricks Creek tower site will be located outside of an incorporated city.

Surveyor's Certification

I hereby certify that this plat has been compiled from a survey actually made upon the ground under my direct supervision on February 17, 2017 by the method of Real Time Kinematic GPS Survey and a random traverse with sideshots. The relative positional accuracy of any point on this survey is better than ± 0.10 feet + 200 PPM. This plat represents a Rural Boundary Survey and complies with the requirements of 201 KAR 18:150.

Darren L. Helms
Darren L. Helms, P.L.S. 3386

March 6, 2017
Date

STATE of KENTUCKY
Darren L. Helms
3386
LICENSED PROFESSIONAL LAND SURVEYOR

Landmark Surveying Co., Inc.
15 N.E. 3rd Street
Washington, Indiana 47501
(812) 257-0950
Website: landmarksurveyingco.com

Project No. 17-01-0103

Lease Boundary Survey
1407 Cherry Tree Road
Burkesville, Kentucky 42717

Bluegrass Cellular
2902 Ring Road
Elizabethtown, Kentucky 42701

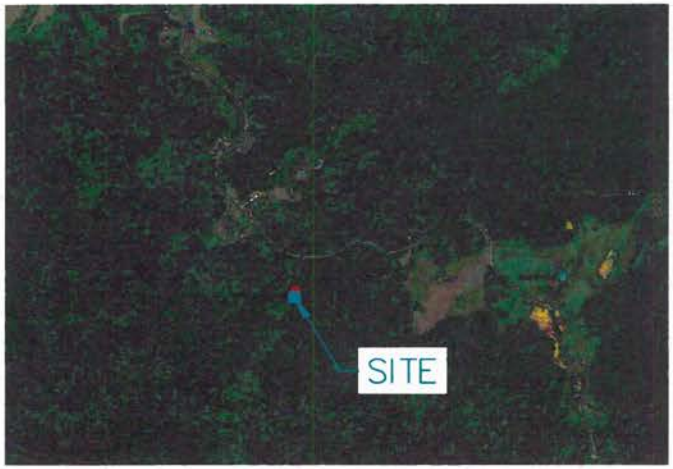
REVISIONS	DATE

DATE: March 6, 2017
DRAWN BY: A. Winkler
CHECKED BY: D.L. Helms

SHEET No. 1 of 1 SHEETS

FILE NAME
hendricks.dwg

PROXIMITY MAP



LOCATION MAP

START FROM SPRING CREEK AIRPORT, ALBANY, KY AND TAKE OLYMPUS DR AND SPECK RD TO STATE HWY 738 (1.8 MILES), TAKE HWY 738 FOR 2.1 MILES UNTIL S HWY 127 – TURN LEFT ONTO S HWY 127 AND DRIVE 2.0 MILES UNTIL TURNING LEFT ONTO BURKESVILLE RD. FOLLOW FOR 4.1 MILES THEN MAKE A LEFT TURN ONTO ROAD 1351. DRIVE ON ROAD 1351 FOR 6.8 MILES UNTIL MODOC RD – TURN LEFT ONTO MODOC RD AND FOLLOW IT FOR 6.1 MILES. TURN LEFT ONTO CELINA RD, STAY ON CELINA RD FOR 4.3 MILES UNTIL MAKING A LEFT ONTO SPEARS CHAPEL RD, AFTER 0.2 MILES TURN LEFT AGAIN ONTO CHERRY TREE RD AND THE DESTINATION IS ON THE RIGHT AFTER 1.4 MILES.

DRIVING DIRECTIONS

PROJECT INFORMATION

SITE NAME:
HENDRICKS CREEK
SITE NUMBER:
KY0117

PROJECT LOCATION:

1407 CHERRY TREE ROAD, BURKESVILLE, KY 42717

LATITUDE	N 36° 38' 16"
LONGITUDE	W 85° 21' 46"
GROUND ELEVATION	1053.15'±

SITE CONSTRUCTION MANAGER:	
NAME	TOWERCO
ADDRESS	5000 VALLEYSTONE DRIVE
CITY, STATE, ZIP	CARY, NC 27519
CONTACT	ADAM MEJECKI
PHONE	(919) 653-5708
SITE APPLICANT:	
NAME	N/A
ADDRESS	N/A
CITY, STATE, ZIP	N/A
CONTACT	N/A
PHONE	N/A
SURVEYOR:	
NAME	N/A
ADDRESS	N/A
CITY, STATE, ZIP	N/A
CONTACT	N/A
PHONE	N/A
CIVIL ENGINEER:	
NAME	TELETEK STRUCTURES
ADDRESS	1600 KING ST. N.
CITY, STATE, ZIP	ST. JACOBS, ON, N0B 2N0
CONTACT	LAURA MARCINIWE
PHONE	(519) 206-2060
GEOTECHNICAL ENGINEER:	
NAME	TERRACON
ADDRESS	10841 S. RIDGEVIEW ROAD
CITY, STATE, ZIP	OLATHE, KS 66061
CONTACT	N/A
PHONE	(800) 593-6886
ELECTRICAL ENGINEER:	
NAME	N/A
ADDRESS	N/A
CITY, STATE, ZIP	N/A
CONTACT	N/A
PHONE	N/A
PROPERTY INFORMATION:	
NAME	N/A
ADDRESS	N/A
CITY, STATE, ZIP	N/A
CONTACT	N/A
PHONE	N/A
UTILITIES:	
POWER COMPANY	N/A
CONTACT	N/A
PHONE	N/A
PHONE# NEAR SITE	N/A

CONTACT INFORMATION

PROJECT DESCRIPTION:
FOUNDATION DESIGN CALCULATIONS
TOWER TYPE:
197.0' MONOPOLE

PROJECT INFORMATION

SHEET	DESCRIPTION	REV
KY0117-T1	TITLE SHEET	1
KY0117-C1	DESIGN CALCULATIONS	1

INDEX OF SHEETS

STATE OF KENTUCKY
RAPHAEL MOHAMED
24429
LICENSED PROFESSIONAL ENGINEER

TELETEK STRUCTURES	3215	1	TOWER DESIGN CHANGE	2024-11-22	PL	LEM
TELETEK STRUCTURES	3215	0	ISSUED FOR REVIEW	2024-11-08	PL	LEM
PREPARED BY:	FILE No.	REV.	DESCRIPTION	DATE	DWN BY	CHK BY

TowerCo
5000 VALLEYSTONE DRIVE
CARY, NC 27519
(919) 653-5708

SITE : HENDRICKS CREEK
CODE : KY0117 [ENGTEL-839]
DRAWING TITLE :
TITLE SHEET
DESIGN CALCULATIONS

SCALE :	NONE
DATE :	2024-11-08
DRAWN BY :	PL
APPROVED BY :	LEM
FILE No :	3215
DRAWING No :	KY0117-T1

Drilled Pier Foundation

BU # :	KY0117
Site Name:	Hendricks Creek
Order Number:	3215
TIA-222 Revison:	G
Tower Type:	Monopole

Applied Loads	Comp.	Uplift
Moment (kip-ft)	8178	
Axial Force (kips)	52	
Shear Force (kips)	79	

Material Properties		
Concrete Strength, f'c:	4.5	ksi
Rebar Strength, Fy:	60	ksi
Tie Yield Strength, Fyt:	40	ksi

Pier Design Data		
Depth	40	ft
Ext. Above Grade	0.5	ft
Pier Section 1		
From 0.5' above grade to 40' below grade		
Pier Diameter	9	ft
Rebar Quantity	38	
Rebar Size	10	
Clear Cover to Ties	3	in
Tie Size	4	
Tie Spacing	12	in

Rebar & Pier Options

Embedded Pole Inputs

Belled Pier Inputs

Analysis Results		
Soil Lateral Check	*Compression*	*Uplift*
$D_{v=0}$ (ft from TOC)	20.21	-
Soil Safety Factor	190.39	-
Max Moment (kip-ft)	9731.09	-
Rating	*0.7%*	-
Soil Vertical Check	*Compression*	*Uplift*
Skin Friction (kips)	9729.20	-
End Bearing (kips)	14313.88	-
Weight of Concrete (kips)	287.43	-
Total Capacity (kips)	24043.08	-
Axial (kips)	339.43	-
Rating	*1.4%*	-
Reinforced Concrete Flexure	*Compression*	*Uplift*
Critical Depth (ft from TOC)	20.23	-
Critical Moment (kip-ft)	9731.07	-
Critical Moment Capacity	10673.85	-
Rating	*91.2%*	-
Reinforced Concrete Shear	*Compression*	*Uplift*
Critical Depth (ft from TOC)	30.35	-
Critical Shear (kip)	933.71	-
Critical Shear Capacity	976.92	-
Rating	*95.6%*	-

Structural Foundation Rating	**95.6%**
Soil Interaction Rating	**1.4%**

Check Limitation	
N/A	☑
Load Z Normalization:	☐
Additional Longitudinal Rebar	
Input Effective Depths (else Actual):	☐
Shear Design Options	
Check Shear along Depth of Pier:	☑
Utilize Shear-Friction Methodology:	☐
Override Critical Depth:	☐

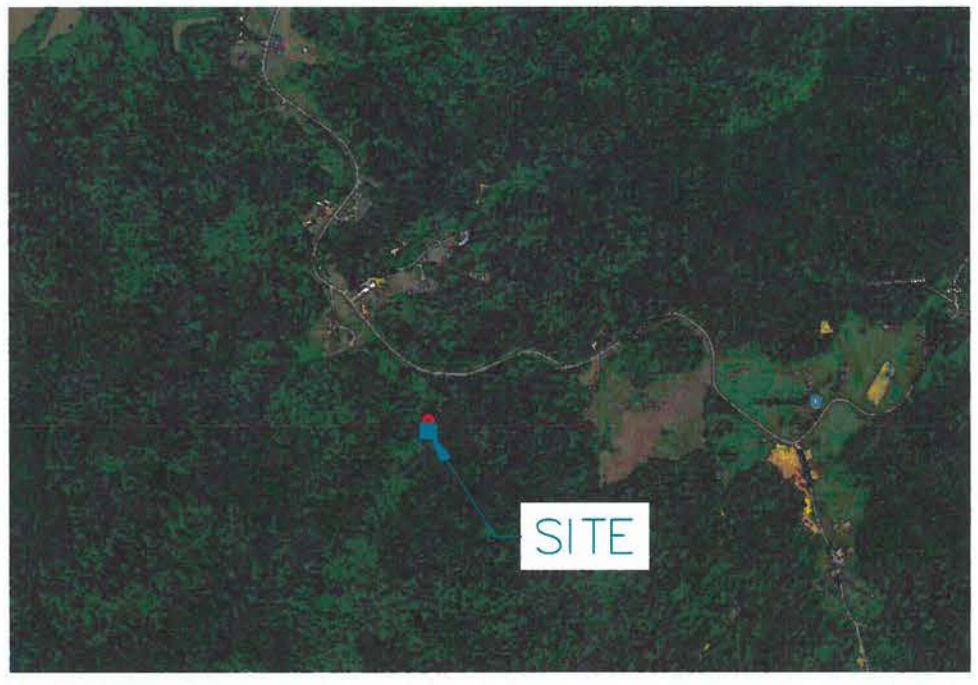
Go to Soil Calculations

Soil Profile

Groundwater Depth	3	# of Layers	4

Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ_{soil} (pcf)	$\gamma_{concrete}$ (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	3	3	30	150	0		0.000	0.000	0.00	0.00			Cohesionless
2	3	14	11	57.6	87.6	0.675		0.371	0.371	0.80	0.80			Cohesive
3	14	19	5	57.6	87.6	5		2.321	2.321	6.00	6.00			Cohesive
4	19	40	21	87.6	87.6	250	0	112.500	112.500	20.00	20.00	300	50	Cohesive

PROXIMITY MAP



LOCATION MAP

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DRIVING DIRECTIONS

PROJECT INFORMATION

SITE NAME:
HENDRICKS CREEK
SITE NUMBER:
KY0117

PROJECT LOCATION:

1407 CHERRY TREE ROAD, BURKESVILLE, KY 42717

LATITUDE	N 36° 38' 16"
LONGITUDE	W 85° 21' 46"
GROUND ELEVATION	1053.15'±

SITE CONSTRUCTION MANAGER:	
NAME	TOWERCO
ADDRESS	5000 VALLEYSTONE DRIVE
CITY, STATE, ZIP	CARY, NC 27519
CONTACT	ADAM MEJECKI
PHONE	(919) 653-5708
SITE APPLICANT:	
NAME	N/A
ADDRESS	N/A
CITY, STATE, ZIP	N/A
CONTACT	N/A
PHONE	N/A
SURVEYOR:	
NAME	N/A
ADDRESS	N/A
CITY, STATE, ZIP	N/A
CONTACT	N/A
PHONE	N/A
CIVIL ENGINEER:	
NAME	TELETEK STRUCTURES
ADDRESS	1600 KING ST. N.
CITY, STATE, ZIP	ST. JACOBS, ON, N0B 2N0
CONTACT	LAURA MARCINIWE
PHONE	(519) 206-2060
GEOTECHNICAL ENGINEER:	
NAME	TERRACON
ADDRESS	10841 S. RIDGEVIEW ROAD
CITY, STATE, ZIP	OLATHE, KS 66061
CONTACT	N/A
PHONE	(800) 593-6886
ELECTRICAL ENGINEER:	
NAME	N/A
ADDRESS	N/A
CITY, STATE, ZIP	N/A
CONTACT	N/A
PHONE	N/A
PROPERTY INFORMATION:	
NAME	N/A
ADDRESS	N/A
CITY, STATE, ZIP	N/A
CONTACT	N/A
PHONE	N/A
UTILITIES:	
POWER COMPANY	N/A
CONTACT	N/A
PHONE	N/A
PHONE# NEAR SITE	N/A

CONTACT INFORMATION

PROJECT DESCRIPTION:
FOUNDATION DESIGN DRAWINGS

TOWER TYPE:
197.0' MONOPOLE

PROJECT INFORMATION

SHEET	DESCRIPTION	REV
KY0117–T1	TITLE SHEET	1
KY0117–N1	PROJECT NOTES	1
KY0117–B1	BILL OF MATERIALS	1
KY0117–F1	FOUNDATION INSTALLATION DETAILS – DRILLED PIER	1

INDEX OF SHEETS

Kentucky811
Know what's below. 811 before you dig.

CALL 48 HOURS BEFORE YOU DIG

STATE OF KENTUCKY
RAPHAEL MOHAMED
24429
LICENSED
PROFESSIONAL ENGINEER

TELETEK STRUCTURES	3215	1	REVISED FOUNDATION DESIGN PER TOWER DESIGN CHANGE	2024-11-22	PL	LEM
TELETEK STRUCTURES	3215	0	ISSUED FOR CONSTRUCTION	2024-11-08	PL	LEM
PREPARED BY.	FILE No.	REV.	DESCRIPTION	DATE	DWN BY	CHK BY

TowerCo
5000 VALLEYSTONE DRIVE
CARY, NC 27519
(919) 653-5708

TELETEK STRUCTURES

SITE : **HENDRICKS CREEK**
CODE : **KY0117 [ENGTEL-839]**
DRAWING TITLE : TITLE SHEET

SCALE :	NONE
DATE :	2024-11-08
DRAWN BY :	PL
APPROVED BY :	LEM
FILE No :	3215
DRAWING No :	**KY0117-T1**

LAST UPDATE : 2024-11-22

S:\TELETEK JOB FILES\JOBS 3201 - 3250\3215 - TOWERCO - KY0117 HENDRICKS CREEK\DETAILING\CONSTRUCTION\3215_KY0117_FOUNDATION_NOV2024_REV1.DWG

GENERAL NOTES:

1. WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.

2. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE.

3. ALL PRODUCT MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERCEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.

4. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE MODIFICATION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND IT'S COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE-DOWNS THAT MAY BE NECESSARY, SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.

5. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATION. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES AND PROCEDURES.

6. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE AND LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.

8. CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.

9. PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI 318 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI IN 28 DAYS.

10. MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 1/3 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2/3 CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING WILL PREVENT HONEYCOMBS OR VOIDS.

11. REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED. SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED UNLESS OTHERWISE INDICATED.

12. WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.

13. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES (76mm) UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH (76mm) MINIMUM COVER ON REINFORCEMENT.

14. CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT EXCEED 3 INCHES (76Mmm) NOR BE LESS THAN 2 INCHES (51mm).

15. FOUNDATION DEPTH INDICATED IS BASED ON THE GRADE LINE DESCRIBED IN THE REFERENCED GEOTECHNICAL REPORT. FOUNDATION MODIFICATION MAY BE REQUIRED IN THE EVENT CUT OR FILL OPERATIONS HAVE TAKEN PLACE SUBSEQUENT TO THE GEOTECHNICAL INVESTIGATION.

16. FOUNDATION DESIGN ASSUMES THE RECOMMENDATIONS IN THE REFERENCED GEOTECHNICAL REPORT CONCERNING VERIFICATION OF SUBSURFACE CONDITIONS ARE IMPLEMENTED PRIOR TO PLACEMENT OF CONCRETE.

17. FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.

18. FOUNDATION DESIGN ASSUMES INSTALLATION PROCEDURES WILL INCORPORATE THE PROCEDURES RECOMMENDED IN THE REFERENCED GEOTECHNICAL REPORT.

19. FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON CONDITIONS EXISTING AT THE SITE.

20. LOOSE MATERIAL SHALL BE REMOVED FROM THE BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.

21. CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS, INFILTRATION OF WATER OR SOIL AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.

22. CONCRETE PREFERABLY SHALL BE PLACED AGAINST UNDISTURBED SOIL. WHEN FORMS ARE NECESSARY, THEY SHALL BE REMOVED PRIOR TO PLACING STRUCTURAL BACKFILL

23. CONSTRUCTION JOINTS, IF REQUIRED AT THE BASE OF THE PIERS, MUST BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4 INCH (6mm). FOUNDATION DESIGN ASSUMES NO OTHER CONSTRUCTION JOINTS.

24. TOP OF FOUNDATION OUTSIDE LIMITS OF ANCHOR BOLTS SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH. AREA INSIDE LIMITS OF ANCHOR BOLTS SHALL BE LEVEL WITH A SCRATCHED FINISH.

25. EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" x 1".

26. SPACERS SHALL BE ATTACHED INTERMITTENTLY THROUGHOUT THE ENTIRE LENGTH OF VERTICAL REINFORCING CAGES TO INSURE CONCENTRIC PLACEMENT OF CAGES IN EXCAVATIONS.

27. FOUNDATION DEPTH INDICATED IS BASED ON THE GRADE LINE DESCRIBED IN THE REFERENCED GEOTECHNICAL REPORT. FOUNDATION MODIFICATION MAY BE REQUIRED IN THE EVENT CUT OR FILL OPERATIONS HAVE TAKEN PLACE SUBSEQUENT TO THE GEOTECHNICAL INVESTIGATION.

28. FOR FOUNDATION INSTALLATION TOLERANCES SEE STRUCTURE ASSEMBLY DRAWING.

29. FREE FALL CONCRETE MAY BE USED PROVIDED FALL IS VERTICAL DOWN WITHOUT HITTING SIDES OF EXCAVATION, FORMWORK, REINFORCING BARS, FORM TIES, CAGE BRACING OR OTHER OBSTRUCTIONS. UNDER NO CIRCUMSTANCES SHALL CONCRETE FALL THROUGH WATER.

30. FOUNDATION DESIGN ASSUMES CASING, IF USED, WILL NOT BE LEFT IN PLACE. EQUIPMENT, PROCEDURES, AND PROPORTIONS OF MATERIALS SHALL INSURE CONCRETE WILL NOT BE ADVERSELY DISTURBED UPON CASING REMOVAL.

31. DRILLING FLUID, IF USED, SHALL BE FULLY DISPLACED BY CONCRETE AND SHALL NOT BE DETRIMENTAL TO CONCRETE OR SURROUNDING SOIL. CONTAMINATED CONCRETE SHALL BE REMOVED FROM TOP OF FOUNDATION AND REPLACED WITH FRESH CONCRETE.

CONSTRUCTION INSPECTION NOTES:

1. FOUNDATION AND GEOTECHNICAL INSPECTIONS: A THIRD PARTY INSPECTION SHALL BE PERFORMED TO VERIFY:
A. PARAMETERS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT FOR THE SITE
B. FOUNDATION DIMENSIONS
C. REINFORCING STEEL GRADE, SIZE, CONDITION, SUPPORT, PLACEMENT AND COVER
D. CONCRETE MIX DESIGN DOCUMENTATION MATCHES STRENGTH AND DURABILITY REQUIREMENTS
E. CONCRETE TESTS REQUIRED TO BE PERFORMED PRIOR TO PLACEMENT OF CONCRETE, INCLUDING SLUMP, TEMPERATURE, AIR CONTENT, AND TEST CYLINDERS
F. ANCHOR ROD AND/OR POST-INSTALLED REBAR DIMENSIONS AND PLACEMENT, SIZE, EMBEDMENT DEPTH, PROJECTION ABOVE CONCRETE, ORIENTATION, PATTERN, AND ALIGNMENT
G. CONDITION OF SUBGRADE IMMEDIATELY PRIOR TO CONCRETE PLACEMENT
H. PROPER CONCRETE PLACEMENT, AVOIDING SEGREGATION OF AGGREGATES, AND CURING
I. STRUCTURAL BACKFILL MATERIAL AND PLACEMENT, INCLUDING MAXIMUM LIFT THICKNESS, MOISTURE CONTENT AND DENSITY.

STATE OF KENTUCKY
RAPHAEL MOHAMED
24429
LICENSED PROFESSIONAL ENGINEER

TELETEK STRUCTURES	3215	1	REVISED FOUNDATION DESIGN PER TOWER DESIGN CHANGE	2024-11-22	PL	LEM
TELETEK STRUCTURES	3215	0	ISSUED FOR CONSTRUCTION	2024-11-08	PL	LEM
PREPARED BY.	FILE No.	REV.	DESCRIPTION	DATE	DWN BY	CHK BY

TowerCo
5000 VALLEYSTONE DRIVE
CARY, NC 27519
(919) 653-6708

TELETEK STRUCTURES

SITE : **HENDRICKS CREEK**
CODE : **KY0117 [ENGTEL-839]**
DRAWING TITLE : PROJECT NOTES

SCALE : NONE
DATE : 2024-11-08
DRAWN BY : PL
APPROVED BY : LEM
FILE No : 3215
DRAWING No : **KY0117-N1**

LAST UPDATE : 2024-11-22

BILL OF MATERIAL - DRILLED PIER

MARK NO.	DESCRIPTION	SIZE	QTY
–	4500 PSI MIX	95.4 CY	1
VERT–01	VERTICAL BAR	#10 ASTM A615–60 x 40'–0"	38
TIE–01	TIE	#4 ASTM A615–60 x 28'–8"	49
HORIZ–01	HORIZONTAL REBAR	#3 ASTM A615–60 x 9'–10"	22
PIPE	TEMPORARY LINER (SEE SITE PREPARATION NOTE 4. ON F1 DRAWING)	PL 3/8"	1

APPLICABLE CODES AND STANDARDS:

1. ANSI/TIA–222–G STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.
2. 2015 INTERNATIONAL BUILDING CODE
3. 2018 KENTUCKY BUILDING CODE
4. ACI 318: AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, 318–14.
5. CRSI: CONCRETE REINFORCING STEEL INSTITUTE, MANUAL OF STANDARD PRACTICE, LATEST EDITION.
6. AISC: AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, 13TH EDITION.
7. AWS: AMERICAN WELDING SOCIETY D1.1, STRUCTURAL WELDING CODE, LATEST EDITION.

STATE OF KENTUCKY
RAPHAEL MOHAMED
24429
LICENSED PROFESSIONAL ENGINEER

TELETEK STRUCTURES	3215	1	REVISED FOUNDATION DESIGN PER TOWER DESIGN CHANGE	2024-11-22	PL	LEM
TELETEK STRUCTURES	3215	0	ISSUED FOR CONSTRUCTION	2024-11-08	PL	LEM
PREPARED BY.	FILE No.	REV.	DESCRIPTION	DATE	DWN BY	CHK BY

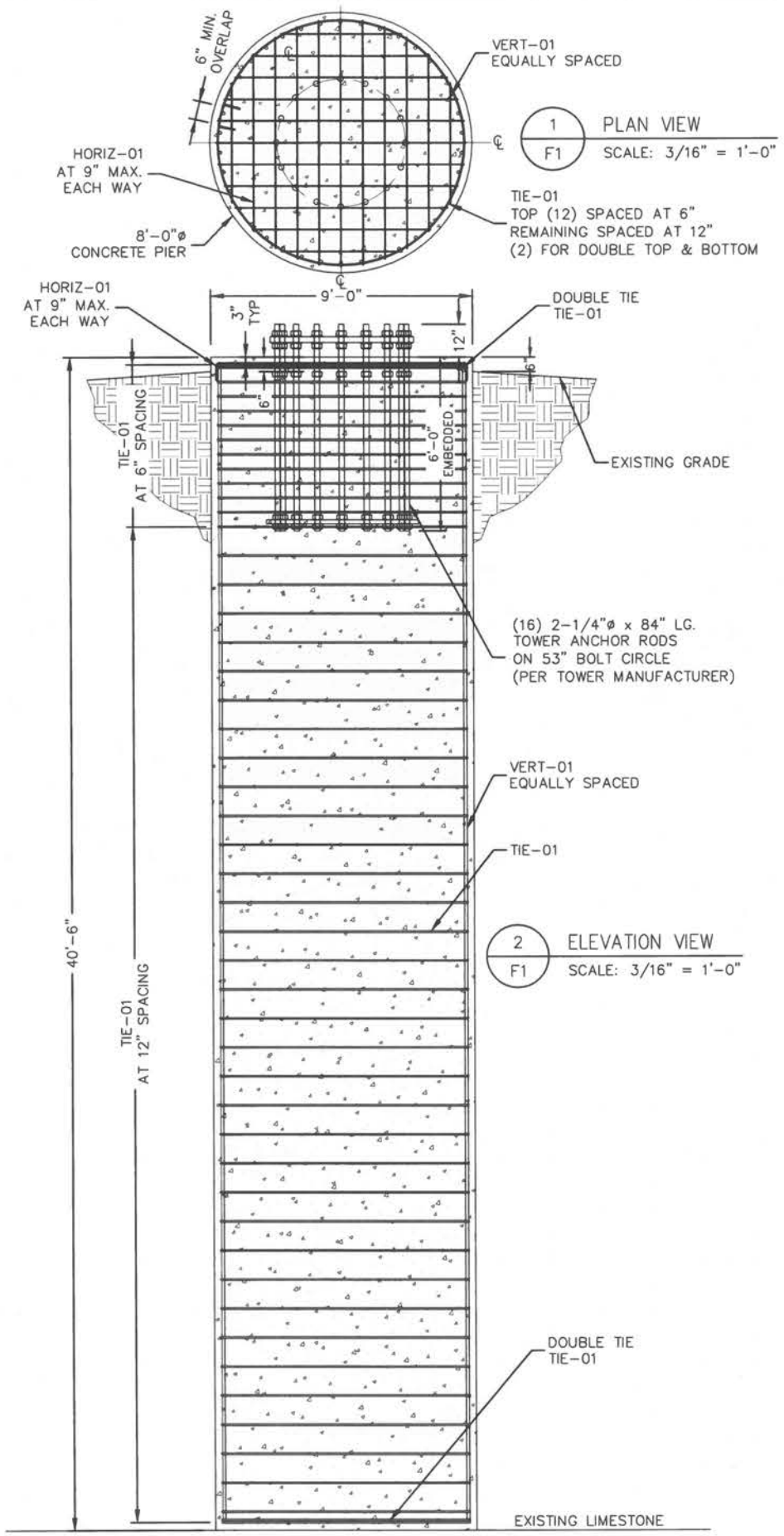
TowerCo
5000 VALLEYSTONE DRIVE
CARY, NC 27519
(919) 653-5708

TELETEK STRUCTURES

SITE : **HENDRICKS CREEK**
CODE : **KY0117 [ENGTEL-839]**
DRAWING TITLE : BILL OF MATERIALS

SCALE :	NONE
DATE :	2024-11-08
DRAWN BY :	AB
APPROVED BY :	LEM
FILE No :	3215
DRAWING No :	KY0117-B01

S:\TELETEK JOB FILES\JOBS 3201 – 3250\3215 – TOWERCO – KY0117 HENDRICKS CREEK\DETAILING\CONSTRUCTION\3215_KY0117_FOUNDATION _NOV2024_REV1.DWG



DESIGN NOTES:

TOWER DESIGN DRAWINGS BY TAPP DATED OCTOBER 17, 2024, JOB # 23524-671 WITH DESIGN CRITERIA:

A. TOWER DESIGN CONFIRMS TO ANSI/TIA-222-G
B. BASIC WIND SPEED (NO ICE): 89 MPH PER ASCE 7-05 CONVERTED TO ASCE 7-10
C. BASIC WIND SPEED (w/ICE): 30 MPH PER ASCE 7-05 CONVERTED TO ASCE 7-10
D. DESIGN ICE THICKNESS: 0.75 INCHES PER ASCE 7-05 CONVERTED TO ASCE 7-10
E. RISK CATEGORY II
F. EXPOSURE CATEGORY C
G. TOPOGRAPHIC CATEGORY 1
H. SEISMIC DESIGN PARAMETERS, Ss: 0.204, S1: 0.109, SITE CLASS: C

MOMENT, 8178 ft-kips

AXIAL, 52 kips

SHEAR, 79 kips

FOUNDATION NOTES:

FOUNDATION DESIGN HAS BEEN BASED ON GEOTECHNICAL REPORT NO. 57175011 DATED 24/MARCH/2017 BY TERRACON

1. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,500 PSI.
2. REBAR SHALL CONFORM TO ASTM SPECIFICATION A615.
3. ALL REBAR SHALL HAVE 3 INCHES MINIMUM COVER.
4. AGGREGATE: ASTM C33, 3/4 INCH MAX
5. CEMENT: ASTM C150 TYPE I
6. WATER: CLEAR, POTABLE
7. AIR ENTRAINMENT: ASTM C260, 6%
8. ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 1 INCH.
9. SEE GEOTECHNICAL REPORT FOR INSTALLATION REQUIREMENTS.

SITE PREPARATION NOTES:

1. REFER TO GEOTECHNICAL REPORT BY TERRACON, JOB #57175011 DATED MARCH 24, 2017.
2. EXCAVATION TO BE INSPECTED BY QUALIFIED GEOTECHNICAL ENGINEER DUE TO KARST TOPOGRAPHY.
3. EXCAVATION WILL BE NEAR 40 FEET IN DEPTH. ANTICIPATE LIMESTONE FROM 14 FEET TO THE BASE OF THE EXCAVATION.
4. 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.
5. TEMPORARY STEEL CASING RECOMMENDED TO BE ON SITE TO CONTROL SEEPAGE AND/OR CAVING DURING INSTALLATION (BEND 3/8" PL INTO 9'-0"Ø] IF REQUIRED. THE PROTECTIVE STEEL CASING SHOULD BE EXTRACTED AS CONCRETE IS PLACED. A HEAD OF CONCRETE SHOULD BE MAINTAINED ABOVE THE BOTTOM OF THE CASING TO PREVENT SOIL AND WATER INTRUSION INTO THE CONCRETE BELOW THE CASING.
6. THE BASE OF THE EXCAVATION SHOULD BE FREE OF ALL ORGANICS AND WOOD DEBRIS.
7. MATERIAL TO BE COMPACTED TO 90% MAXIMUM DRY DENSITY OBTAINED FROM ASTM D1557.

NOTE:
TEST HOLE SHOULD BE DRILLED TO CHECK FOR DISCONTINUITIES IN THE BEDROCK.

STATE OF KENTUCKY
RAPHAEL MOHAMED
24429
LICENSED PROFESSIONAL ENGINEER

TELETEK STRUCTURES	3215	1	REVISED FOUNDATION DESIGN PER TOWER DESIGN CHANGE	2024-11-22	PL	LEM
TELETEK STRUCTURES	3215	0	ISSUED FOR CONSTRUCTION	2024-11-08	PL	LEM
PREPARED BY.	FILE No.	REV.	DESCRIPTION	DATE	DWN BY	CHK BY

TowerCo
5000 VALLEYSTONE DRIVE
CARY, NC 27519
(919) 653-5708

SITE : **HENDRICKS CREEK**
CODE : **KY0117 [ENGTEL-839]**
DRAWING TITLE : FOUNDATION INSTALLATION DETAILS DRILLED PIER

SCALE :	AS SHOWN
DATE :	2024-11-08
DRAWN BY :	AB
APPROVED BY :	LEM
FILE No :	3215
DRAWING No :	**KY0117-F1**

TAPP
QUALITY STEEL POLES. DELIVERED.
2427 Kelly Lane
Houston, Texas 77066
281-444-8277

Page 1 of 1		Job Number:	23524-671
Eng: MFP		Customer Ref:	TP-23927
		Date:	11/14/2024
Structure:	197-FT MONOPOLE		
Site:	KY0117 CK HENDRICKS CREEK		
Location:	CUMBERLAND CO., KY / 36°38'16", -85°21'46"		
Owner:	TOWERCO		
Revision No.:	Revision Date:		

DESIGN

Building Code:	2018 KENTUCKY BUILDING CODE		
Design Standard:	ANSI/TIA-222-G		
Wind Speed Load Cases:	ASCE-7-05 CONVERTED TO ASCE-7-10		
Load Case #1:	89 MPH Design Wind Speed - V_{ASD} (V_{ULT} = 115 MPH)		
Load Case #2:	30 MPH Wind with 0.75" Ice Accumulation		
Load Case #3	60 MPH Service Wind Speed		

Structure Class Risk Category	Exposure Cat.	Topography Cat.	Crest Height
II	C	1	

STRUCTURE MEETS THE MINIMUM REQUIREMENTS OF TIA-222-H

EQUIPMENT LIST

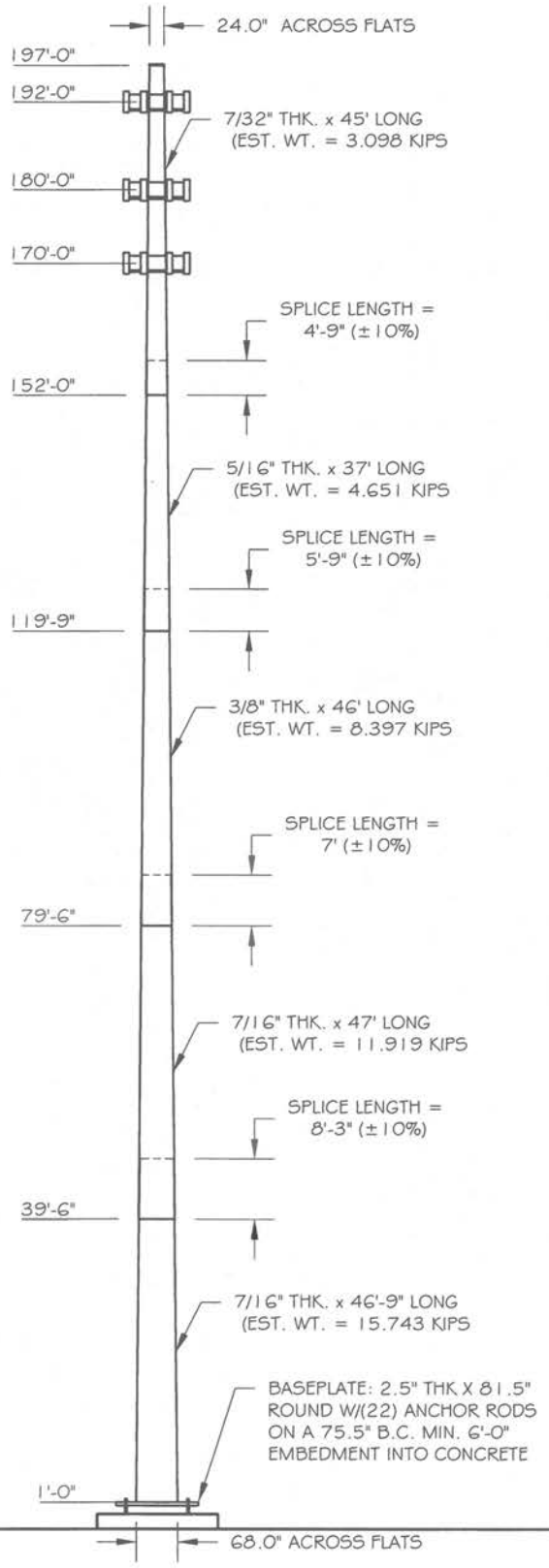
Elev.	Description
192	ANTENNAS + EQUIPMENT (EPA 42,000 IN2)
192	HEAVY DUTY SECTOR MOUNTS WITH STIFF ARMS
180	ANTENNAS + EQUIPMENT (EPA 20,000 IN2)
180	HEAVY DUTY SECTOR MOUNTS WITH STIFF ARMS
170	ANTENNAS + EQUIPMENT (EPA 20,000 IN2)
170	HEAVY DUTY SECTOR MOUNTS WITH STIFF ARMS

ANTENNA FEED LINES ROUTED ON THE INSIDE OF THE POLE

STRUCTURE PROPERTIES

Cross-Section: 18-Sided		Taper:	0.23820 in/ft
Shaft Steel: ASTM A572 GR 65		Baseplate Steel:	ASTM A572 GR 50
Anchor Rods: 2.25 in. A615 GR. 75 X 7'-0"			

Sect.	Length (ft)	Thickness (in)	Splice (ft)	Top Dia. (in)	Bot Dia. (in)
1	45.00	0.2188	4.75	24.00	34.72
2	37.00	0.3125	5.75	33.15	41.96
3	46.00	0.3750	7.00	39.97	50.93
4	47.00	0.4375	8.25	48.51	59.70
5	46.75	0.4375	0.00	56.86	68.00



STATE OF KENTUCKY
MICHAEL F. PLAHOVINSAK
25466
LICENSED PROFESSIONAL ENGINEER
11.14.2024

MICHAEL F. PLAHOVINSAK, P.E. #25466
Sole Proprietor - Independent Engineer
18301 S.R. 161, Plain City, OH 43064
614-398-6250 / mike@mfpeng.com

Michael Plahovinsak 2024.11.14 15:33:41 -05'00'

BASE REACTIONS FOR FOUNDATION DESIGN

Moment:	8178 ft-kip
Shear:	52 kip
Axial:	79 kip

Tower Input Data

The tower is a monopole.
This tower is designed using the TIA-222-G standard.
The following design criteria apply:

Basic wind speed of 89 mph.
Structure Class II.
Exposure Category C.
Topographic Category 1.
Crest Height 0.00 ft.
Nominal ice thickness of 0.7500 in.
Ice thickness is considered to increase with height.
Ice density of 56 pcf.
A wind speed of 40 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 60 mph.
Non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in pole design is 1.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	197.00-152.00	45.00	4.75	18	24.0000	34.7191	0.2188	0.8750	A572-65 (65 ksi)
L2	152.00-119.75	37.00	5.75	18	33.1501	41.9636	0.3125	1.2500	A572-65 (65 ksi)
L3	119.75-79.50	46.00	7.00	18	39.9689	50.9262	0.3750	1.5000	A572-65 (65 ksi)
L4	79.50-39.50	47.00	8.25	18	48.5088	59.7042	0.4375	1.7500	A572-65 (65 ksi)
L5	39.50-1.00	46.75		18	56.8641	68.0000	0.4375	1.7500	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	24.3365	16.5116	1179.7676	8.4423	12.1920	96.7657	2361.0876	8.2574	3.8390	17.55
	35.2209	23.9540	3602.1498	12.2476	17.6373	204.2349	7209.0393	11.9793	5.7256	26.174
L2	34.7622	32.5708	4437.2009	11.6574	16.8403	263.4877	8880.2404	16.2885	5.2844	16.91
	42.5627	41.3127	9054.6740	14.7861	21.3175	424.7532	18121.2624	20.6603	6.8356	21.874
L3	41.9184	47.1267	9333.8492	14.0558	20.3042	459.7003	18679.9802	23.5678	6.3745	16.999
	51.6539	60.1685	19425.3804	17.9457	25.8705	750.8699	38876.3213	30.0900	8.3030	22.141
L4	50.8827	66.7530	19488.5349	17.0653	24.6425	790.8520	39002.7133	33.3828	7.7675	17.754
	60.5578	82.2993	36522.0856	21.0397	30.3298	1204.1669	73092.2279	41.1575	9.7379	22.258
L5	59.6693	78.3554	31519.0827	20.0314	28.8870	1091.1183	63079.6390	39.1851	9.2381	21.116
	68.9815	93.8190	54105.2694	23.9847	34.5440	1566.2711	108281.731	46.9184	11.1980	25.595

Tower Elevation ft	Gusset Area (per face) ft²	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 197.00-152.00				1	1	1			
L2 152.00-119.75				1	1	1			
L3 119.75-79.50				1	1	1			
L4 79.50-39.50				1	1	1			
L5 39.50-1.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft²/ft	Weight plf
Safety Climb & Step Bolts Exposed	C	No	Yes	CaAa (Out Of Face)	197.00 - 1.00	1	No Ice	0.06	0.09
							1/2" Ice	0.14	0.63
							1" Ice	0.24	1.77
**									
1 5/8"	C	No	Yes	Inside Pole	192.00 - 1.00	18	No Ice	0.00	0.92
							1/2" Ice	0.00	0.92
							1" Ice	0.00	0.92
1 5/8"	C	No	Yes	Inside Pole	180.00 - 1.00	12	No Ice	0.00	0.92
							1/2" Ice	0.00	0.92
							1" Ice	0.00	0.92
1 5/8"	C	No	Yes	Inside Pole	170.00 - 1.00	12	No Ice	0.00	0.92
							1/2" Ice	0.00	0.92
							1" Ice	0.00	0.92

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft²	A_F ft²	C_AA_A In Face ft²	C_AA_A Out Face ft²	Weight K
L1	197.00-152.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	2.475	1.17
L2	152.00-119.75	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	1.774	1.25
L3	119.75-79.50	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	2.214	1.55
L4	79.50-39.50	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	2.200	1.54
L5	39.50-1.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	2.118	1.49

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	197.00-152.00	A	1.771	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	17.623	1.39
L2	152.00-119.75	A	1.727	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	12.630	1.40
L3	119.75-79.50	A	1.674	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	15.415	1.74
L4	79.50-39.50	A	1.590	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	14.895	1.72
L5	39.50-1.00	A	1.430	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	13.690	1.64

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
EPA 42,000 in2	C	None		0.0000	192.00	No Ice	292.00	292.00	4.00
						1/2" Ice	300.00	300.00	6.00
						1" Ice	308.00	308.00	8.00
Heavy Duty Sector Mounts with Stiff Arms **	C	None		0.0000	192.00	No Ice	30.00	30.00	1.80
						1/2" Ice	35.00	35.00	2.60
						1" Ice	40.00	40.00	3.40
EPA 20,000 in2	C	None		0.0000	180.00	No Ice	138.89	138.89	4.00
						1/2" Ice	160.00	160.00	5.00
						1" Ice	181.11	181.11	6.00
Heavy Duty Sector Mounts with Stiff Arms **	C	None		0.0000	180.00	No Ice	30.00	30.00	1.80
						1/2" Ice	35.00	35.00	2.60
						1" Ice	40.00	40.00	3.40
EPA 20,000 in2	C	None		0.0000	170.00	No Ice	138.89	138.89	4.00
						1/2" Ice	160.00	160.00	5.00
						1" Ice	181.11	181.11	6.00
Heavy Duty Sector Mounts with Stiff Arms	C	None		0.0000	170.00	No Ice	30.00	30.00	1.80
						1/2" Ice	35.00	35.00	2.60
						1" Ice	40.00	40.00	3.40

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.6 Wind 0 deg - No Ice
3	0.9 Dead+1.6 Wind 0 deg - No Ice
4	1.2 Dead+1.6 Wind 90 deg - No Ice

Comb. No.	Description
5	0.9 Dead+1.6 Wind 90 deg - No Ice
6	1.2 Dead+1.6 Wind 180 deg - No Ice
7	0.9 Dead+1.6 Wind 180 deg - No Ice
8	1.2 Dead+1.0 Ice+1.0 Temp
9	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
10	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
11	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
12	Dead+Wind 0 deg - Service
13	Dead+Wind 90 deg - Service
14	Dead+Wind 180 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	197 - 152	Pole	Max Tension	3	0.00	0.00	-0.00
			Max. Compression	8	-51.11	0.00	0.00
			Max. Mx	4	-19.83	-1000.88	0.00
			Max. My	2	-19.83	0.00	1000.88
			Max. Vy	4	38.73	-1000.88	0.00
			Max. Vx	2	-38.73	0.00	1000.88
L2	152 - 119.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	8	-60.70	0.00	0.00
			Max. Mx	4	-27.39	-2257.56	0.00
			Max. My	2	-27.39	0.00	2257.56
			Max. Vy	4	41.64	-2257.56	0.00
			Max. Vx	2	-41.64	0.00	2257.56
L3	119.75 - 79.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	8	-76.37	0.00	0.00
			Max. Mx	4	-39.96	-3958.18	0.00
			Max. My	2	-39.96	0.00	3958.18
			Max. Vy	4	45.44	-3958.18	0.00
			Max. Vx	2	-45.44	0.00	3958.18
L4	79.5 - 39.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	8	-96.60	0.00	0.00
			Max. Mx	4	-56.35	-5794.78	0.00
			Max. My	2	-56.35	0.00	5794.78
			Max. Vy	4	49.15	-5794.78	0.00
			Max. Vx	2	-49.15	0.00	5794.78
L5	39.5 - 1	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	8	-124.39	0.00	0.00
			Max. Mx	4	-79.35	-8177.96	0.00
			Max. My	2	-79.35	0.00	8177.96
			Max. Vy	4	52.38	-8177.96	0.00
			Max. Vx	2	-52.38	0.00	8177.96

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	197 - 152	52.423	13	2.5704	0.0000
L2	156.75 - 119.75	31.840	13	2.1479	0.0000
L3	125.5 - 79.5	19.432	13	1.5981	0.0000
L4	86.5 - 39.5	8.758	13	0.9839	0.0000
L5	47.75 - 1	2.607	13	0.5054	0.0000

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
192.00	EPA 42,000 in2	13	49.734	2.5286	0.0000	24164
180.00	EPA 20,000 in2	13	43.354	2.4224	0.0000	7106
170.00	EPA 20,000 in2	13	38.216	2.3193	0.0000	4473

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	197 - 152	207.219	4	10.1796	0.0000
L2	156.75 - 119.75	126.045	4	8.5130	0.0000
L3	125.5 - 79.5	76.989	2	6.3372	0.0000
L4	86.5 - 39.5	34.716	2	3.9021	0.0000
L5	47.75 - 1	10.335	2	2.0039	0.0000

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
192.00	EPA 42,000 in2	4	196.619	10.0152	0.0000	6463
180.00	EPA 20,000 in2	4	171.468	9.5968	0.0000	1897
170.00	EPA 20,000 in2	4	151.208	9.1904	0.0000	1190

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L1	197 - 152 (1)	TP34.7191x24x0.2188	45.00	0.00	0.0	23.1684	-19.83	1494.77	0.013
L2	152 - 119.75 (2)	TP41.9636x33.1501x0.3125 (1.00 CR) - 2	37.00	0.00	0.0	39.9541	-27.39	2753.73	0.010
L3	119.75 - 79.5 (3)	TP50.9262x39.9689x0.375	46.00	0.00	0.0	58.1839	-39.96	3994.39	0.010
L4	79.5 - 39.5 (4)	TP59.7042x48.5088x0.4375	47.00	0.00	0.0	79.5704	-56.35	5453.42	0.010
L5	39.5 - 1 (5)	TP68x56.8641x0.4375	46.75	0.00	0.0	93.8190	-79.35	6020.03	0.013

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uv}}{\phi M_{ny}}$
L1	197 - 152 (1)	TP34.7191x24x0.2188	1000.88	1027.00	0.975	0.00	1027.00	0.000
L2	152 - 119.75 (2)	TP41.9636x33.1501x0.3125	2257.56	2281.19	0.990	0.00	2281.19	0.000
L3	119.75 - 79.5 (3)	TP50.9262x39.9689x0.375	3958.18	4015.95	0.986	0.00	4015.95	0.000
L4	79.5 - 39.5 (4)	TP59.7042x48.5088x0.4375	5794.77	6427.25	0.902	0.00	6427.25	0.000
L5	39.5 - 1 (5)	TP68x56.8641x0.4375	8177.96	8375.17	0.976	0.00	8375.17	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	197 - 152 (1)	TP34.7191x24x0.2188	38.73	747.39	0.052	0.00	2058.55	0.000
L2	152 - 119.75 (2)	TP41.9636x33.1501x0.3125	41.64	1376.87	0.030	0.00	4573.32	0.000
L3	119.75 - 79.5 (3)	TP50.9262x39.9689x0.375	45.44	1997.19	0.023	0.00	8051.03	0.000
L4	79.5 - 39.5 (4)	TP59.7042x48.5088x0.4375	49.15	2726.71	0.018	0.00	12885.08	0.000
L5	39.5 - 1 (5)	TP68x56.8641x0.4375	52.38	3010.01	0.017	0.00	16787.25	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	197 - 152 (1)	0.013	0.975	0.000	0.052	0.000	0.991 ✔	1.000	✔
L2	152 - 119.75 (2)	0.010	0.990	0.000	0.030	0.000	1.000 ✔	1.000	✔
L3	119.75 - 79.5 (3)	0.010	0.986	0.000	0.023	0.000	0.996 ✔	1.000	✔
L4	79.5 - 39.5 (4)	0.010	0.902	0.000	0.018	0.000	0.912 ✔	1.000	✔
L5	39.5 - 1 (5)	0.013	0.976	0.000	0.017	0.000	0.990 ✔	1.000	✔

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	197 - 152	Pole	TP34.7191x24x0.2188	1	-19.83	1494.77	99.1	Pass
L2	152 - 119.75	Pole	TP41.9636x33.1501x0.3125	2	-27.39	2753.73	100.0	Pass
L3	119.75 - 79.5	Pole	TP50.9262x39.9689x0.375	3	-39.96	3994.39	99.6	Pass
L4	79.5 - 39.5	Pole	TP59.7042x48.5088x0.4375	4	-56.35	5453.42	91.2	Pass
L5	39.5 - 1	Pole	TP68x56.8641x0.4375	5	-79.35	6020.03	99.0	Pass
							Summary	
						Pole (L2)	100.0	Pass
						RATING =	**100.0**	**Pass**

Michael F. Plahovinsak, P.E.
18301 State Route 161 W
Plain City, OH 43064
Phone: 614-398-6250
email: mike@mfpeng.com

Job	Page
197-ft monopole - MFP #23524-671	BP & AB Calc
Project	**Date**
KY0117 CK Hendricks Creek	11/14/2024
Client	**Designed by**
TAPP TP-23927	Mike

Anchor Rod and Base Plate Calculation

ANSI/TIA-222-G

Factored Base Reactions:		*Pole Shape:*	*Anchor Rods:*	*Base Plate:*
Moment:	8178 ft-kips	18-Sided	(22) 2.25 in. A615 GR. 75	2.5 in. x 81.5 in. Round
Shear:	52 kips	*Pole Dia. (D_f):*	Anchor Rods Evenly Spaced	fy = 50 ksi
Axial:	79 kips	68.00 in	On a 75.5 in Bolt Circle	

Anchor Rod Calculation According to TIA-222-G section 4.9.9

ϕ_t , ϕ_v = 0.80 TIA 4.9.9
I_{bolts} = 15675.69 in^2 Momet of Inertia
P_u = 233 kips Tension Force
V_u = 2.4 kips Shear Force
Rnt = 325.00 kips Nominal Tensile Strength
n 0.50 for detail type (d)
Stress Rating = **91.3%** Satisfies TIA-G 4.9.9

Base Plate Calculation According to TIA-222-G

ϕ = 0.90 TIA 4.7
M_{PL} = 569.1 in-kip Plate Moment
L = 9.7 in Section Length
Z = 15.2 Plastic Section Modulus
M_P = 758.6 in-kip Plastic Moment
ϕM_n = 682.8 in-kip Factored Resistance

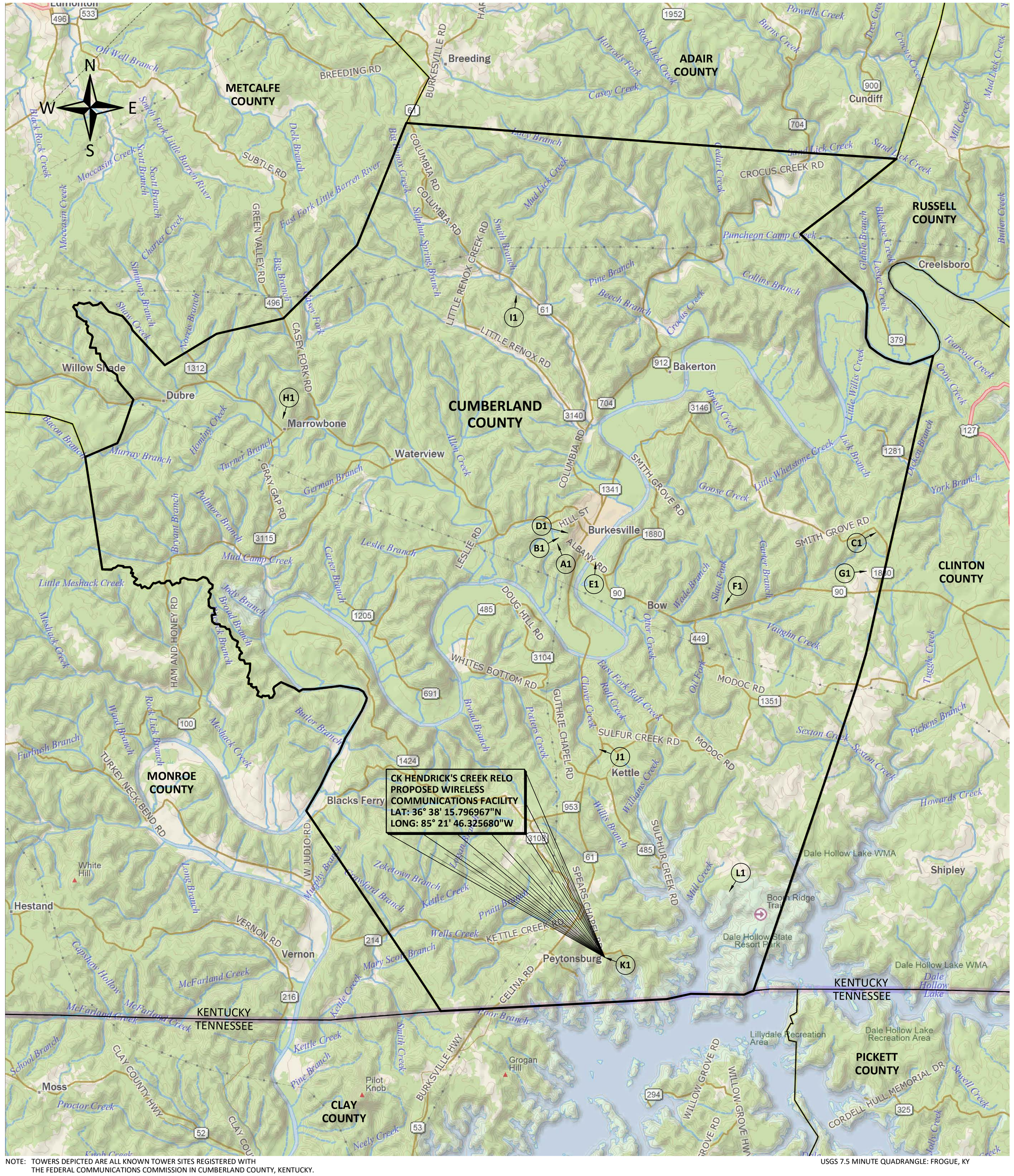
Calculated Moment vs Factored Resistance
569.15 in-kip $\leq$ 683 in-kip

Stress Rating = **83.4%**

Anchor Rods Are Adequate	**91.3%** ☑
Base Plate is Adequate	**83.4%** ☑

CUMBERLAND COUNTY, KENTUCKY

CELLCO PARTNERSHIP SITE NAME:
CK HENNDRICK'S CREEK RELO



NOTE: TOWERS DEPICTED ARE ALL KNOWN TOWER SITES REGISTERED WITH THE FEDERAL COMMUNICATIONS COMMISSION IN CUMBERLAND COUNTY, KENTUCKY.

USGS 7.5 MINUTE QUADRANGLE: FROGUE, KY

EXISTING TOWER LEGEND

A1
FCC REGISTRATION #: 1040490
CELLCO PARTNERSHIP
LAT: 36° 47' 11.0"N
LONG: 85° 23' 02.0"W

B1
FCC REGISTRATION #: 1042229
GLOBAL TOWER, LLC
through AMERICAN TOWERS, LLC
LAT: 36° 47' 19.0"N
LONG: 85° 23' 00.0"W

C1
FCC REGISTRATION #: 1044802
COMMONWEALTH OF KENTUCKY dba =
KY EMERGENCY WARNING SYSTEM KEWS
LAT: 36° 47' 26.0"N
LONG: 85° 14' 28.0"W

D1
FCC REGISTRATION #: 1046918
WKYR INC
LAT: 36° 47' 26.0"N
LONG: 85° 22' 47.0"W

E1
FCC REGISTRATION #: 1046919
WKYR INC
LAT: 36° 46' 47.0"N
LONG: 85° 22' 00.0"W

F1
FCC REGISTRATION #: 1257755
CELLCO PARTNERSHIP
LAT: 36° 45' 53.9"N
LONG: 85° 18' 31.2"W

G1
FCC REGISTRATION #: 1258928
SBA TOWERS VII, LLC
LAT: 36° 46' 35.6"N
LONG: 85° 14' 42.7"W

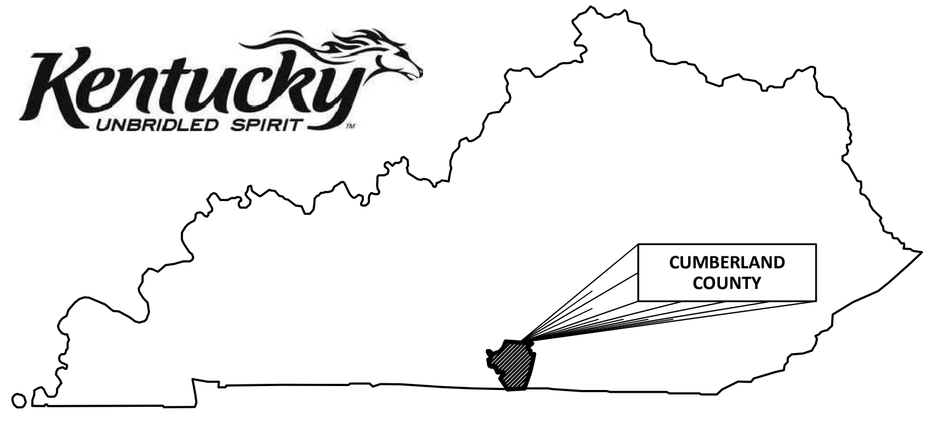
H1
FCC REGISTRATION #: 1263396
SBA TOWERS II, LLC
LAT: 36° 49' 54.0"N
LONG: 85° 30' 26.8"W

I1
FCC REGISTRATION #: 1275158
CELLCO PARTNERSHIP
LAT: 36° 52' 32.5"N
LONG: 85° 24' 08.7"W

J1
FCC REGISTRATION #: 1275245
CELLCO PARTNERSHIP
LAT: 36° 42' 44.7"N
LONG: 85° 21' 54.1"W

K1
(GRANTED)
FCC REGISTRATION #: 1303895
CELLCO PARTNERSHIP
LAT: 36° 38' 16.0"N
LONG: 85° 21' 46.5"W

L1
(GRANTED)
FCC REGISTRATION #: 1328601
KENTUCKY STATE POLICE
LAT: 36° 39' 40.9"N
LONG: 85° 18' 24.6"W



PREPARED BY:
POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

PREPARED FOR:
CELLCO PARTNERSHIP D/B/A verizon

REVISIONS

REV.	DATE	DESCRIPTION
A	11.13.24	ISSUED FOR REVIEW

SITE INFORMATION:

CK HENDRICK'S CREEK RELO
1407 CHERRY TREE ROAD
BURKESVILLE, KY 42717
CUMBERLAND COUNTY

TAX MAP NUMBER:
060-00-00-053.00

PROPERTY OWNER:
FRANK A. B. BRENDEL, JR. AND PATRICIA H. BRENDEL
945 HENDRICK'S CREEK ROAD
BURKESVILLE, KY 42717

SOURCE OF TITLE:
DEED BOOK 169, PAGE 581

SITE NUMBER:
617414141

POD NUMBER:	24-170673
DRAWN BY:	DAP
CHECKED BY:	MEP
SURVEY DATE:	8.14.24
PLAT DATE:	11.13.24

SHEET TITLE:
TOWER GRID MAP

SHEET NUMBER: (1 page)
C-1

Federal Aviation Administration

« OE / AAA

Notice of Proposed Construction or Alteration - Off Airport

Add a New Case (Off Airport) - Desk Reference Guide V_2018.2.1

Add a New Case (Off Airport) for Wind Turbines - Met Towers (with WT Farm) - WT-Barge Crane - Desk Reference Guide V_2018.2.1

Project Name: TOWER-000882436-24 Sponsor: TowerCo 2013 LLC

Details for Case : KY0117 CK Hendricks Creek

Show Project Summary

Case Status

ASN:	2024-ASO-17572-OE	Date Accepted:	09/11/2024
Status:	Accepted	Date Determined:	
		Letters:	None
		Documents:	09/11/2024 CK_Hendricks_Cree...
Public Comments:	None		
		Project Documents:	None

Construction / Alteration Information

Notice Of:	Construction
Duration:	Permanent
if Temporary :	Months: Days:
Work Schedule - Start:	10/25/2024
Work Schedule - End:	08/09/2025

*For temporary cranes-Does the permanent structure require separate notice to the FAA? To find out, use the Notice Criteria Tool. If separate notice is required, please ensure it is filed. If it is not filed, please state the reason in the Description of Proposal.

State Filing: Not filed with State

Structure Summary

Structure Type:	POLE | Monopole
Structure Name:	KY0117 CK Hendricks Creek
FDC NOTAM:	
NOTAM Number:	
FCC Number:	
Prior ASN:	

Structure Details

Latitude:	36° 38' 15.80" N
Longitude:	85° 21' 46.33" W
Horizontal Datum:	NAD83
Site Elevation (SE):	985 (nearest foot) PASSED
Structure Height (AGL):	135 (nearest foot)
Current Height (AGL): * For notice of alteration or existing provide the current AGL height of the existing structure. Include details in the Description of Proposal	(nearest foot)
Minimum Operating Height (AGL): * For aeronautical study of a crane or construction equipment the maximum height should be listed above as the Structure Height (AGL). Additionally, provide the minimum operating height to avoid delays if impacts are identified that require negotiation to a reduced height. If the Structure Height and minimum operating height are the same enter the same value in both fields.	(nearest foot)
Requested Marking/Lighting:	None
Other :	
Recommended Marking/Lighting:	
Current Marking/Lighting:	N/A Proposed Structure
Other :	
Nearest City:	Burkesville
Nearest State:	Kentucky
Description of Location: On the Project Summary page upload any certified survey.	near 1407 Cherry Tree Rd
Description of Proposal:	Proposed site is a 135 ft AGL Monopole tower, including all antennas and lightning rod.

Proposed Frequency Bands

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

Low Freq	High Freq	Freq Unit	ERP	ERP Unit
3700	3980	MHz	3280	W
3700	3980	MHz	1640	W

Previous Back to Search Result Next

From: ron.lageson@wacorp.net
To: Edward Schafer
Subject: FW: KAZC Permit not Required - 199 ft Tower
Date: Wednesday, October 30, 2024 8:24:07 AM

---

fyi

From: Airport Zoning Commission <AirportZoning@ky.gov>
Sent: Monday, October 28, 2024 3:11 PM
To: ron.lageson@wacorp.net; Airport Zoning Commission <AirportZoning@ky.gov>
Cc: 'Henry Byrne' <hbyrne@towerco.com>
Subject: KAZC Permit not Required - 199 ft Tower

Ron,

Thank you for checking on this location and height for the 199 ft Tower.
The location and height are not in KAZC's jurisdiction, and no KAZC Permit/Approval is required.

The 215 ft Crane will require a KAZC Temporary Permit.
Since the use of the crane is 120 days or less, it is not required to be presented to the KAZC Commissioners, and I have the authority to issue the KAZC Temporary Permit.

Please email be the information for the Temporary Crane permit approximately 30 days prior to the scheduled work date, and I will issue the permit.

Aeronautical Study Result
The structure is not in KAZC's jurisdiction and does not require a permit.
Structure's Coordinates: 36°38'15.8"N, 85°21'46.33"W
Structure's Height : 199 ft.
User-submitted ground elevation is 985 ft.
DEM's ground elevation is 985.03 ft (KYAPED 2-FT DEM Phase 2).

Contact us if you have any questions.

Regards,

TEAM KENTUCKY
TRANSPORTATION CABINET

Anthony Adams
KY Airport Zoning commission, Administrator
Department of Aviation
90 Airport Road, Bldg 400
Frankfort, Kentucky 40601
(502) 564-0151 office
(502) 330-4022 mobile
Airport Zoning Commission | KYTC

From: ron.lageson@wacorp.net <ron.lageson@wacorp.net>

Sent: Monday, October 28, 2024 4:51 PM
To: Airport Zoning Commission <AirportZoning@ky.gov>
Cc: 'Henry Byrne' <hbyrne@towerco.com>
Subject: RE: KAZC Permit not Required

This site AGL was increased to 199 ft AGL and assigned ASN 2024-ASO-20784-OE with the FAA for the tower.

1. TowerCo – 5000 Valleystone Dr., Cary, NC 27519
2. Requester Contact: Henry Byrne : (919) 272-7766
3. Work Schedule: 8/1/25-10/31/25
4. Lat/Long: 36.637721, -85.362868
5. Site Elevation: 985'
6. Tower Height: 199' – Crane Height: 215'
7. On Site Contact: Bob Evans : (919) 653-5700

Thank you,

Rwl

From: Airport Zoning Commission <AirportZoning@ky.gov>
Sent: Wednesday, October 23, 2024 2:26 PM
To: ron.lageson@wacorp.net; Airport Zoning Commission <AirportZoning@ky.gov>
Cc: 'Henry Byrne' <hbyrne@towerco.com>
Subject: KAZC Permit not Required

Ron,

Thank you for checking on this location and height.
The location and height are not in KAZC's jurisdiction, and no KAZC Permit/Approval is required.

Aeronautical Study Result
The structure is not in KAZC's jurisdiction and does not require a permit.
Structure's Coordinates: 36°38'15.8"N, 85°21'46.33"W
Structure's Height : 150 ft.
User-submitted ground elevation is 985 ft.
DEM's ground elevation is 985.03 ft (KYAPED 2-FT DEM Phase 2).

Contact us if you have any questions.

Regards,

Anthony Adams
KY Airport Zoning
commission, Administrator
Department of Aviation
90 Airport Road, Bldg 400
Frankfort, Kentucky 40601
(502) 564-0151 office
(502) 330-4022 mobile
Airport Zoning Commission | KYTC

From: ron.lageson@wacorp.net <ron.lageson@wacorp.net>
Sent: Wednesday, September 25, 2024 12:54 PM
To: Airport Zoning Commission <AirportZoning@ky.gov>
Cc: 'Henry Byrne' <hbyrne@towerco.com>
Subject: Proposed Monopole tower in KY

---

1. TowerCo – 5000 Valleystone Dr., Cary, NC 27519
2. Requester Contact: Henry Byrne : (919) 272-7766
3. Work Schedule: 8/1/25-10/31/25
4. Lat/Long: 36.637721, -85.362868
5. Site Elevation: 985'
6. Tower Height: 135' – Crane Height: 150'
7. On Site Contact: Bob Evans : (919) 653-5700

Proposed 135 ft AGL MP tower near Burkesville, KY, FAA was filed and assigned ASN 2024-ASO-17572-OE.

Thank you,

rwl
Regulatory Compliance Manager
Wireless Application Corporation
425-643-5000

Terracon

GeoReport

Hendricks Creek Tower

Terracon Project No. 57175011

Prepared for:

Bluegrass Cellular Partnership

Elizabethtown, KY

March 24, 2017

March 24, 2017

Bluegrass Cellular, Inc.
2902 Ring Road
Elizabethtown, KY 42702

Attn: Mr. Tim Ash
P: [270] 765 6361

Regarding: Geotechnical Engineering Report
Proposed 240-foot Self Support Telecommunications Tower
Site Name: Hendricks Creek Tower
Burksville, Kentucky
Terracon Project No.: 57175011

Dear Mr. Ash:

Terracon Consultants, Inc. (Terracon) has completed the geotechnical subsurface exploration, field testing, laboratory testing, and engineering evaluation for the Hendricks Creek tower project. It is our understanding that a 240-foot, self-support tower is planned for this site. The purpose of this report is to provide geotechnical parameters for the subsurface materials for foundation design and earthwork considerations. This study was performed in general accordance with Terracon's Master Service Agreement dated March 7, 2001 and Cumberland Cellular Partnership Purchase Order PO-3652 dated January 5, 2017.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report, or if we may be of further service, please contact the writer.

Sincerely,
Terracon Consultants, Inc.

Ryan C. Ortiz, E.I.T.
Staff Engineer

STATE OF KENTUCKY
RONALD J. EBELHAR
15186
LICENSED PROFESSIONAL ENGINEER

Ronald J. Ebelhar, P.E., DG.E
Senior Principal

TABLE OF CONTENTS

Terracon GeoReport

PROJECT DESCRIPTION

Our initial understanding of the project was provided in our Stage 1 submittal in **Project Understanding**. During the period of collaboration that has transpired since the project was initiated, our understanding of the project conditions have been modified to reflect the following.

ITEM	DESCRIPTION
Proposed construction	A 240-foot-tall self-support tower and an equipment structure are planned within the 70- by 70-foot compound. The equipment shelter location and dimensions are not available at the time of this report.
240-foot Self-Support Tower: Maximum loads (to be confirmed)	Vertical: 600 kips (to be confirmed) Shear: 100 kips (to be confirmed) Uplift: 500 kips (to be confirmed) These anticipated loads are based on experience with similar projects. Loads should be confirmed by the project structural engineer. If loading conditions vary from those stated above, Terracon should review the recommendations in this report and confirm they are applicable.
240-foot Self-Support tower: Maximum allowable settlement (to be confirmed)	1-inch (to be confirmed)
Equipment building: Maximum loads (to be confirmed)	Column: 34 kips (to be confirmed) Wall: 1.5 kips/ft (to be confirmed) These anticipated loads that are shown are based on experience with similar projects. Loads should be confirmed by the project structural engineer. If loading conditions vary from those stated above, Terracon should review the recommendations in this report and confirm they are applicable.
Equipment building: Maximum allowable settlement (to be confirmed)	Total: 1-inch (to be confirmed) Differential: ¾ inch over 40 feet (to be confirmed)
Grading (to be confirmed)	Based on review of the Lease Boundary Survey dated March 6, 2017, the site generally slopes upward from southwest to northeast from an approximate elevation of 980 to 989 feet within the compound area. Based on review of the lease boundary survey, the tower center elevation is 984.1 feet. We anticipate minimal cuts and fills (i.e. <5 ft) will be required. Terracon should be retained to review the topographic plan and grading plan upon availability relative to the recommendations contained in this report.

SITE CONDITIONS

The following description of site conditions has been prepared based on our site reconnaissance during field exploration and review of publically available maps.

ITEM	DESCRIPTION
Location	The proposed new cell tower and compound, referred to as Hendricks Creek Telecommunications Tower, is to be located at the address of 1407 Cherry Tree Road in Burkesville, Kentucky. The lease area is located on a logging haul road about 500 feet south of Cherry Creek Road. Approximate Latitude/Longitude: 36.637772°, -85.362903° Please see the **Site Location Plan (Exhibit A-1)**
Existing improvements	The proposed lease area is an undeveloped area.
Current ground cover	A haul road for a logging operation leads to the lease area. The lease area contains a wooded area with some fallen or cut trees. The lease area contains grass-, shrub-, and soil-covered areas.
Existing topography	Based on review of the Lease Boundary Survey dated March 6, 2017, the site generally slopes upward from southwest to northeast from an approximate elevation of 980 to 989 feet within the 70- by 70-foot compound area. Based on review of the lease boundary survey, the tower center elevation is 984.1 feet.

EXPLORATION AND TESTING PROCEDURES

Field Exploration

A geotechnical engineering study has been completed for the proposed Hendricks Telecommunications Tower to be constructed near the intersection of 1407 Cherry Tree Road of Burkesville, Kentucky. A boring was advanced at one location to a depth to about 29 feet below existing grade. Individual boring logs and **Exploration Plan (Exhibit A-2)** are included in the appendix.

The locations of the borings were established by the project surveyor. Elevations, included in our boring logs, were provided by the project surveyor.

The boring was advanced by an all-terrain style drilling rig using hollow stem augers to advance the borings. Soil samples were obtained by the split-barrel sampling procedures. In the split-barrel sampling procedure, a standard, 2-inch O.D., split-barrel sampling spoon is driven into the boring with a 140-pound automatic SPT (Standard Penetration Test hammer falling 30 inches, in general accordance with ASTM D 1586). We record the number of blows required to advance the sampling spoon the last 12 inches of an 18-inch sampling interval as the standard penetration resistance value, N. This value is used to estimate the in-situ relative density of cohesionless soils and consistency of cohesive soils.

At auger refusal, we obtained a rock core using a double-walled, diamond-faced, NX core barrel. The cores obtained were placed in a core box, sealed and returned to our laboratory for observation, classification and compression testing.

A field log of each boring was prepared by the field engineer during the field exploration. These logs included visual classifications of the materials encountered during drilling as well as the field interpretation of the subsurface conditions between samples. The final boring logs include modifications based on observations and tests of the samples in the laboratory. Information provided on the test boring logs include soil descriptions, consistency evaluations, boring depths, sampling intervals, and groundwater conditions. The borings were backfilled with cuttings prior to the drill crew leaving the site.

Descriptive classifications of the soils indicated on the boring logs are in accordance with the enclosed General Notes and Unified Soil Classification System. A brief description of each is attached hereto.

Laboratory Testing

The project engineer has reviewed the field data and assigned various laboratory tests to better understand the index, strength, and engineering properties of the various soil strata as necessary for this project. The laboratory testing program included examination of soil samples for texture and plasticity, to help describe and classify the soil samples in accordance with the Unified Soil Classification System.

The laboratory testing program included the following analyses:

- ASTM D2216-10 Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
- ASTM D4318-10e1 Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils
- ASTM D2166/D2166M-13 Standard Test Method for Unconfined Compressive Strength of Cohesive Soil
- ASTM D7012 Standard Test Methods for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures

SUBSURFACE CONDITIONS

Site Geology

Formation [1]	Description
St. Louis Limestone [2]	**Primary Lithology:** Limestone and siltstone Limestone, very dark to medium-gray, very fine- to medium-grained, commonly cherty, argillaceous and silty; interbedded and gradational with calcareous siltstone. Siltstone predominates in lower part of unit, limestone in upper part. Unit contains abundant fossils, including bryozoans, brachiopods, echinoids, and corals. Note: The St. Louis Limestone Formation is designated as having very high karst potential.[3]
Salem and Warsaw Limestone [2]	**Primary Lithology:** Limestone and sandstone Limestone, light-olive to medium- and dark-gray, medium- to coarse-grained, argillaceous, arenaceous, and silty, thick-bedded, to thinly cross-laminated. Interbedded and gradational with light-olive-gray to medium-gray silty limestone, sandy limestone, and calcareous siltstone. Chert is locally abundant as beds and pods, and small quartz geodes are common. Note: The Salem and Warsaw Limestone Formation is designated as having low karst potential, however Terracon project experience indicates that in localized areas, the Warsaw formation may exhibit karst features as well. [3]

1. Geologic descriptions based on published information from the Kentucky Geological Survey, University of Kentucky, www.uky.edu/KGS, retrieved March 21, 2017.
2. Based on the Geologic Map of the Frogue Quadrangle, Cumberland County, Kentucky, published by the Kentucky Geological Survey (GQ-675).
3. Please see the Karst Potential Plan (Exhibit A-1B).

The St. Louis Limestone formation is highly susceptible to dissolution along joints and bedding planes in the rock mass. This results in voids and solution channels developing within the rock strata creating a highly irregular bedrock surface. The weathering of the bedrock and subsequent collapse or erosion of the overburden into these openings results in what is referred to as karst topography. Any construction in karst topography is accompanied by some degree of risk for future internal soil erosion and ground subsidence that could affect the stability of structures situated above the karst features. Our review of the Karst Potential Map (http://kgs.uky.edu) a large sinkhole within an approximate 1-mile radius of the property, which can be observed in the Karst Potential Plan (Exhibit A-1B). The risks associated with karst geology are common for the project vicinity and are not unique to this site. The boring advanced at the tower location included 15 feet of rock core starting at 14 feet below existing grade. A clay layer and clay-stained joints were encountered in the recovered rock sample at about 18.5 feet.

Typical Subsurface Profile

Based on the results of the subsurface exploration, subsurface conditions on the project site can be generalized as follows:

Stratum	Approximate Depth to Bottom of Stratum (feet)	Material Encountered	Consistency/Hardness
Surface [1]	0.7	Topsoil	N/A
1	3	Lean Clay [2]	Stiff [3]
2	12	Fat Clay [4]	Very stiff [5]
3	13.5	Silt [6]	N/A
4	Undetermined	Limestone with karst features [7]	Recovery range: 90 to 100% RQD range: 78 to 95%

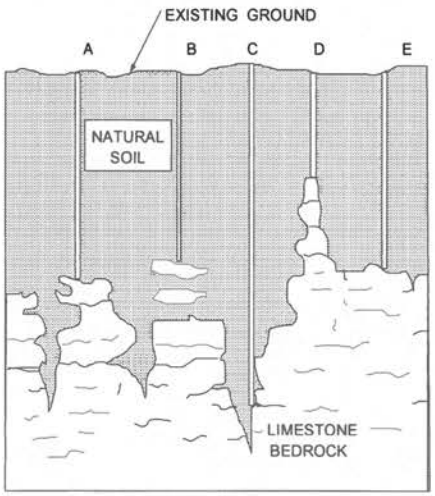
1. Topsoil was encountered at Boring B-1.
2. Lean clay was encountered at Boring B-1. Atterberg limit tests on the undisturbed sample at Boring B-1A obtained from 1 to 3 feet resulted in liquid limit (LL) of 42 percent and plastic limit (PL) of 18 percent. Moisture contents on representative samples ranged from 24 to 28 percent.
3. Native lean clay exhibited a stiff consistency based on a SPT N-value of 11, hand penetrometer value of 5000 psf, and an unconfined compressive strength of about 2700 psf.
4. Fat clay was encountered at Boring B-1. Atterberg limit tests on a fat clay sample observed in the rock core sample resulted in liquid limit (LL) results ranging from 62 to 57 percent and plastic limit (PL) results ranging from 24 to 26 percent. Moisture content tests on representative samples ranged from 23 to 29 percent.
5. Fat clay exhibited a very stiff consistency based on a SPT N-values ranging from 15 to 18 and hand penetrometer values ranging from 6000 to 8000+ psf.
6. Silt was encountered at Boring B-1 just above bedrock. Atterberg limit tests on the split spoon sample at Boring B-1 obtained at about 13.5 feet resulted in liquid limit (LL) of 30 percent and plastic limit (PL) of 25 percent. Moisture contents on a representative sample was 17 percent.
7. Limestone was encountered at the test boring location at a depth of about 13.5 feet below existing grade. Boring B-1 was advanced into this stratum, starting at the auger refusal depth at about 14 feet below ground surface, by rock sampling techniques extending to about 29 feet below existing ground surface. The test boring was terminated in this stratum. A clay layer and clay stained joints were observed in the recovered rock sample. Unconfined compressive strength testing on representative samples resulted in strengths ranging from approximately 11,800 to 18,770 psi at Boring B-1.

Auger refusal was encountered at a depth of approximately 14 feet below existing grade and the boring was extended using rock coring techniques to a depth of about 29 feet below existing grade. Auger refusal is defined as the depth below the ground surface at which a test boring can no longer be advanced with the soil drilling technique being used. In an area of limestone bedrock, auger

refusal can result on slabs of unweathered limestone suspended in the residual soil matrix ("floaters"), on rock "pinnacles" rising above the surrounding bedrock surface, in widened joints that may extend well below the surrounding bedrock surface, or on the upper surface of continuous bedrock. Several of these possible auger refusal conditions are illustrated in the adjacent figure.

The St. Louis Limestone bedrock formation is known for producing several obstructions that can cause the augers to refuse above sound bedrock. These obstructions can range from floaters to rock pinnacles as illustrated in examples A, B, C, and D in the figure. Depth to competent bedrock in areas of karst geology can vary greatly over short distances. The possibility of varying depths to bedrock should be considered when developing the design and construction plans for this project. Rock core operations were performed to better explore the refusal materials.

AUGER REFUSAL ILLUSTRATION



THIS FIGURE IS FOR ILLUSTRATIVE PURPOSES ONLY AND DOES NOT NECESSARILY DEPICT THE SPECIFIC BEDROCK CONDITIONS AT THIS SITE

The boring was advanced into bedrock, where a clay layer and clay stained joints were encountered. Sample recovery ranged from 90 to 100 percent. The quality of the core obtained is considered to be good to excellent with the RQD values ranging from 78 to 95 percent.

Specific conditions encountered at the boring location are indicated on the attached boring log. Stratification boundaries on the boring log represent the approximate location of changes in soil types; in-situ, the transition between materials may be gradual. Further details of the boring can be found on the boring log in the Appendix of this report. Photographs of the rock core samples can be observed in the Rock Core Photography Log (Exhibit A-5).

Specific conditions encountered at the boring location are indicated on the attached boring log. Stratification boundaries on the boring logs represent the approximate location of changes in soil types; in-situ, the transition between materials may be gradual. Further details of the boring can be found on the appended logs.

Groundwater

The boreholes were observed while drilling for the presence and level of groundwater. No groundwater was observed in the remaining borings for the short duration that the borehole was open. Due to the low permeability of the soils encountered in the borings, a relatively long period of time may be necessary for a groundwater level to develop and stabilize in a borehole in these materials. Long-term observations in piezometers or observation wells sealed from the influence of surface water are often required to define groundwater levels in materials of this type.

Groundwater level fluctuations occur due to seasonal variations in the amount of rainfall, runoff and other factors not evident at the time the borings were performed. Therefore, groundwater levels during construction or at other times in the life of the structure may be higher or lower than the levels indicated on the boring logs. The possibility of groundwater level fluctuations should be considered when developing the design and construction plans for the project.

SITE CLASSIFICATION FOR SEISMIC DESIGN

Design of buildings and other structures subject to earthquake ground motions requires classification of the upper 100 feet of the site profile in accordance with Chapter 20 of ASCE 7. The Site Class types are listed below and are basically defined by an average value of either shear wave velocity, standard penetration resistance, or undrained shear strength.

- A. Hard Rock
- B. Rock
- C. Very dense soil and soft rock
- D. Stiff soil
- E. Soft clay soil
- F. Soils vulnerable to potential failure or collapse under seismic loading

Based on the results of our site characterization program, we conclude that Site Class C is appropriate for the subject site. Note that the scope of services did not include site profile determination to a depth of 100 feet. Explorations for this project extended to a maximum depth of 29 feet, where the borings were terminated. The Site Class C designation is based on an assumption that limestone bedrock continue to a depth of 100+ feet.

GEOTECHNICAL OVERVIEW

The following sections describe pertinent geotechnical considerations identified by the exploration and laboratory testing. Site preparation recommendations, including subgrade improvement, fill placement, and excavations are provided in the **Site Preparation** section.

Karst Features

Karst features, including a clay layer and clay-stained joints in bedrock, were encountered at the boring located at the tower center. The approximate 6-inch-thick clay layer was encountered at a depth of about 18.5 feet below existing grade. Should shallow foundations be selected for structural support, the client should be prepared to accept the risk for of construction in karst topography with known buried karst features. Should a drilled pier be selected for structural support, we recommend that the drilled pier be tipped at a minimum depth of about 22 feet below existing grade in competent limestone bedrock. To mobilize the strength parameters recommended in the **Foundations** section of our report, the pier should be embedded a minimum of 3 feet into competent limestone bedrock. Competent limestone bedrock was encountered at a depth of 19 feet.

High Plasticity Clay

High plasticity fat clays (CH) were encountered at Boring B-1 at a depth of about 3 feet below existing grade. Atterberg tests on a representative samples resulted in a liquid limits (LL) of 62 to 67 percent and plastic limits (PL) of about 24 to 26 percent. High plasticity clays may be encountered at bearing elevations for any shallow foundations or floor slabs on this project.

High-plasticity soils are potentially expansive and could adversely affect lightly-loaded structures, such as foundations and floor slabs. The presence of fat clay should be anticipated at nearly all foundation and floor slab bearing elevations. Where high plasticity soils are encountered within the foundation excavations, the excavations should be over-excavated to provide a minimum 1.5 foot thick layer of low volume change material. Low volume change material used for backfilling overexcavations should meet the requirements of the **Material Types** section of this report. The low volume change layer will reduce risk but not eliminate the risk of the high plasticity clays adversely affecting lightly loaded structures. To eliminate this risk, deep foundations (i.e. drilled piers) would be considered for foundation support. Additional recommendations concerning foundation over-excavation are provided in the **Foundations** section.

Foundation Support

Site grading, structural loading and foundation plans are unknown at this time. Anticipated loads are based on experience with similar projects. Loads should be confirmed by the project structural engineer. If loading conditions vary from those stated above, Terracon should be retained to review the recommendations in this report.

Should shallow foundations be selected for tower foundation support, the tower mat foundation can be dimensioned for a net allowable soil bearing pressure of 2,500 psf, bearing at or below frost depth of 24 inches below surrounding grade. Design parameters for deep foundations have also been provided. The equipment shelter foundation can be dimensioned for a net allowable soil bearing pressure of 2,500 psf for isolated spread footings and 2,000 for continuous wall footings.

If shallow foundations are selected, the tower or equipment structure can be supported by shallow bearing on undisturbed, at least **stiff** natural cohesive soils or new lean clay engineered fill or lean concrete placed directly on at least stiff native soils. However, inspection of the bearing conditions should be performed by a geotechnical engineer or representative to identify any potential karst conditions. Any undercut and replacement of unsuitable soils should be replaced with new engineered fill meeting the requirements of the Material Types in the **Site Preparation** section of this report. Additional recommendations for design and construction of foundations are presented in the following sections.

SITE PREPARATION

The following presents recommendations for site preparation, excavation, and fill placement. Special considerations will be needed where site grading may expose unstable soils. Our recommendations presented for design and construction of earth supported elements (i.e. foundations, slabs, etc.) are contingent upon following the recommendations outlined in this section. Due to the high-plasticity clays encountered in our borings, earthwork activities on the project should be observed and evaluated by Terracon.

Vegetation, existing pavements, and otherwise unsuitable materials should be stripped from the site prior to grading operations. Topsoil or other loose, soft or otherwise unsuitable material should be removed from the entire construction area and any sources of on-site borrow material should be stockpiled outside of the construction area.

Following rough grading, and prior to placement of foundations, the subgrade should be evaluated by proofrolling where possible to aid in locating unstable subgrade soils. Any soft, loose, or otherwise unsuitable areas identified during the proofroll will require undercutting or improvement. Where proofrolling is not possible, the subgrade should be evaluated by observation and probing to aid in locating unsuitable or unstable areas. The appropriate method and amount of stabilization, if required, should be determined at the time of construction based on observations by the geotechnical engineer.

It should be noted that the on-site clayey soils may be susceptible to disturbance from construction activity, particularly if the soil has high natural moisture and is wetted by surface water or seepage. Therefore, care should be taken during the site grading operation to provide adequate site drainage and minimize disturbance of the bearing soils.

Material Types

All imported material or on-site material proposed for reuse should be tested to verify conformance with the material property and placement recommendations in this section.

Engineered fill should meet the following material property requirements:

Fill Type [1]	USCS Classification	Acceptable Location for Placement
Lean clay [2]	CL (LL<50% & PI>15)	All locations and elevations
Fat clay [2]	CH (LL>50%)	Not recommended for use as structural fill

Fill Type [1]	USCS Classification	Acceptable Location for Placement
Well graded granular and silty gravel	GM-GW GM	All locations and elevations
Low Volume Change Material	CL or GM-GW, GM [3] and (LL<40% & 5<PI<15)	All locations and elevations

1. Controlled, compacted fill should consist of approved materials that are free of organic matter and debris. Frozen material should not be used, and fill should not be placed on a frozen subgrade. A sample of each material type should be submitted to the geotechnical engineer for evaluation.
2. Delineation of fat clays and lean clays should be performed in the field by a qualified geotechnical engineer or their representative, and could require additional laboratory testing. Fat clays was observed in our boring.
3. Similar to KYTC DGA or crushed stone base limestone, limestone screenings, or granular material such as sand, gravel or crushed stone containing not more than 14% non-plastic fines.

Compaction Requirements

Engineered fill should meet the following compaction requirements:

ITEM	DESCRIPTION
Fill Lift Thickness	8-inches or less loose thickness for heavy, self-propelled compaction equipment. 4- to 6-inches loose thickness for hand-guided equipment (i.e. jumping jack or plate compactor)
Compaction Requirements [1] (Structural Areas)	At least 98% of the materials Standard Proctor maximum dry density (ASTM D 698)
Compaction Requirements (Landscape Areas)	At least 95% of Standard Proctor maximum dry density (provided long-term plans do not include a structure in these areas)
Moisture Content - Cohesive Soils	Within the range of 1% below to 2% above the optimum moisture content (OMC) as determined by the Standard Proctor test at the time of placement and compaction
Moisture Content - Granular Material [2]	Within workable moisture levels / ±2% of OMC

1. Engineered fill should be tested for moisture content and compaction during placement. Should the results of the in-place density tests indicate the specified moisture or compaction limits have not been met, the area represented by the test should be reworked and retested as required until the specified moisture and compaction requirements are achieved.
2. Specifically, moisture levels should be maintained low enough to allow for satisfactory compaction to be achieved without the cohesionless fill material pumping when proofrolled.

Utility Trench Backfill

All trench excavations should be made with sufficient working space to permit construction including backfill placement and compaction. If utility trenches are backfilled with relatively clean granular material, they should be capped with at least 18 inches of cohesive soil to reduce the infiltration and conveyance of surface water through the trench backfill. Backfill placed in utility trenches below pavements should consist of well graded granular materials.

Utility trenches are a common source of water infiltration and migration. All utility trenches that penetrate beneath the foundation should be effectively sealed to restrict water intrusion and flow through the trenches that could migrate below the foundation with a clay plug. The plug material should consist of clay compacted at a water content at or above the soils optimum water content. The clay fill should be placed to completely surround the utility line and be compacted in accordance with recommendations in this report.

Grading and Drainage

Effective site drainage is important both during construction and during the life of the foundations. Adequate drainage will be necessary to control and divert stormwater runoff away from the site. Final surrounding grades should be sloped away from the foundations to prevent ponding of water.

Excess materials generated during site grading, including soils unsuitable for use as engineered fill (i.e. high-plasticity material, topsoil, etc.), and may be placed as fill in non-structural landscape areas and in the construction of landscape berms. To the extent possible, these materials should be placed in accordance with the **Compaction Requirements**.

Earthwork Construction Considerations

Although the exposed subgrade may be relatively stable upon initial exposure, unstable subgrade conditions could develop during general construction operations, particularly if the soils are wetted and/or subjected to repetitive construction traffic. It is recommended that construction activities be performed during drier weather, if possible. Some subgrade instability should be anticipated if construction is planned during wet weather that may require undercutting and/or stabilization. The use of light construction equipment would aid in reducing subgrade disturbance. Should unstable subgrade conditions develop, stabilization measures will need to be implemented.

Upon completion of filling and grading, care should be taken to maintain the subgrade moisture content prior to construction. Construction traffic over the completed subgrade should be avoided to the extent practical. The site should also be graded to prevent ponding of surface water on the prepared subgrades or in excavations. If the subgrade should become frozen, desiccated, saturated,

or disturbed, the affected material should be removed or these materials should be scarified, moisture conditioned, and recompacted prior to foundation construction.

At a minimum, all temporary excavations should be sloped or braced as required by OSHA guidelines to provide stability and safe working conditions, and to protect the integrity of adjacent structures. Temporary excavations will probably be required during grading operations and utility trenches. The grading contractor, by his contract, is usually responsible for designing and constructing stable, temporary excavations and should shore, slope or bench the sides of the excavations as required, to maintain stability of both the excavation sides and bottom. All excavations should comply with applicable local, state and federal safety regulations, including the current Occupational Safety and Health Administration (OSHA) Excavation and Trench Safety Standards.

Construction site safety is the sole responsibility of the contractor who controls the means, methods and sequencing of construction operations. Under no circumstances shall the information provided herein be interpreted to mean that Terracon is assuming any responsibility for construction site safety or the contractor's activities.

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

FOUNDATIONS

Mat Foundation Design Parameters

Parameter	Mat
Maximum net allowable bearing pressure on existing soils [1]	2,500 psf
Minimum foundation plan dimensions	24 inches
Required bearing stratum [2]	Engineered fill or lean concrete extending to at least stiff clay
Ultimate coefficient of sliding friction	0.30
Ultimate passive pressure [3]	350 psf (below 3 feet)
Minimum embedment below finished grade for frost protection [4]	24 inches (42 inches if bearing on fat clay)
Est. total settlement from structural loads [5]	< 1.5 inch

1. The maximum net allowable bearing pressure is the pressure in excess of the minimum surrounding overburden pressure at the footing base elevation. An appropriate factor of safety has been applied. These recommendations are applicable from 2 to 6 feet, approximately.
2. Unsuitable or soft soils should be undercut, and the footings should be deepened to bear on the competent bearing stratum or could bear on lean concrete extending from the foundation base to competent bearing stratum.
3. The sides of the excavation for the spread footing foundation must be nearly vertical and the concrete should be placed neat against these vertical faces for the passive earth pressure value to be valid. If the loaded side is sloped or benched, and then backfilled, the allowable passive pressure will be significantly reduced. Passive resistance in the upper 3 feet of the subsurface profile should be neglected.
4. For perimeter footing and footings beneath unheated areas. Also to reduce the effects of seasonal moisture variations in the subgrade soils. Any footings bearing on fat clay at minimum depths should be deepened to extend at least 42 inches below finished exterior grade (18 inches below the foundation bearing elevation) for additional protection against seasonal shrink/swell.
5. The foundation settlement will depend upon embedment depth of the footings, the quality of the earthwork operations, and conformance with soil improvement methods recommended in this report. The estimated settlements are based on recommended allowable bearing pressures, long-term settlement will depend on the quality and uniformity of the engineered fill placement.

Design/Analysis Parameters for Deep Foundations

Based on the results of the test boring data and laboratory testing, we have developed the following drilled pier design parameters:

Approximate Depth (feet) [1]	Allowable Skin Friction (psf)	Allowable End Bearing Capacity (psf)	Undrained Shear Strength, c (psf)	Unit Weight (pcf)	Strain ε_{50}	Lateral Subgrade Modulus, k (pci)	Model
0 – 3[2]	Ignore	Ignore	Ignore	Ignore	Ignore	Ignore	Ignore
Lean clay, fat clay, and silt 3 - 14	400	--	1,350	120	0.008	110	Stiff Clay w/o water
Limestone with a clay seam 14 - 19	3000	--	10,000	120	0.008	110	Stiff Clay w/o water
Competent Limestone Bedrock 19 - 29	10,000	100,000	500,000	150	k_{rm}=0.00005	3000	Strong Rock (RQD=78)

The above indicated cohesion, friction angle, lateral subgrade modulus and strain values have no factors of safety, and the allowable skin friction bearing capacity and the passive resistances have a factor of safety of at least 2. The cohesion, internal friction angle, lateral subgrade modulus and strain values given in the above table are based on our boring, published values and our past experience with similar soil and rock types. These values should, therefore, be considered approximate. To mobilize the higher rock strength parameters, the pier should be socketed at least 3 feet into the bearing stratum. The allowable end bearing pressure provided in the table has an approximate factor of safety of at least 3. If the drilled pier is designed using the above parameters and bear within the siltstone bedrock, settlement is anticipated to be about ½ inch or less.

Deep Foundation Construction Considerations

Difficult drilling conditions may be encountered due to chert layers typically found in the St. Louis Limestone formation. The contractor should be prepared to penetrate bedrock with chert and competent limestone. Due to the karst features encountered at our boring location, the bottom of

the excavation should be inspected carefully by a qualified geotechnical engineer or representative for voids, clay layers, or any otherwise unsuitable bearing conditions due to karst topography.

Drilled piers should be designed with a minimum shaft diameter of 30 inches to facilitate clean out and inspection of the bedrock surface from the ground. The pier should be mobilized 3 feet below the top of competent bedrock depth of 19 feet. If groundwater seepage is encountered, water should be removed from each pier hole prior to concrete placement. Care should be taken so that the sides and bottom of the excavations are not disturbed during construction. The contractor should have temporary casing available onsite during construction of the drilled pier to control seepage and/or caving soil, if encountered.

Based on compressive strength and rock quality data, we expect that advancement of piers to minimum embedment in rock could be achieved by a rock auger equipped with self-rotating cutter bits or by rock coring. However, advancement method may vary between contractors depending on experience and their evaluation of penetration rates for the site conditions.

The bottom of the shaft should be free of loose soil or debris prior to reinforcing steel and concrete placement. It is recommended that the specifications state that reinforcing steel and pier concrete be placed the same day as the shaft is drilled. No completed shaft excavation should be allowed to remain open overnight. It is suitable, however, for the contractor to excavate a portion of the drilled shaft and then complete the shaft excavation the next day.

If pier concrete cannot be placed in dry conditions, a tremie should be used for concrete placement. Free-fall concrete placement in piers will only be acceptable if provisions are taken to avoid striking the concrete on the sides of the hole or reinforcing steel. The use of a bottom-dump hopper or tremie discharging near the bottom of the hole where concrete segregation will be minimized, is recommended. Due to potential sloughing and raveling, foundation concrete quantities may exceed calculated geometric volumes.

Adequate performance of the drilled shaft foundations will be highly dependent on the contractors installation techniques used to construct the foundation elements. At a minimum, the following inspection criteria should be incorporated as a requirement for construction of the drilled piers.

Bearing conditions of the drilled pier foundations should be evaluated by a qualified geotechnical engineer at the time of construction to confirm suitable end bearing on competent bedrock and to provide recommendations if unsuitable bearing materials are encountered. Entry of personnel into the drilled pier foundations is not required and is strongly discouraged for this project. The evaluation of the piers should include the following:

- Contractor should advance a test hole with an air track drill through the bedrock bearing surface to a depth of at least two times the pier diameter to check for discontinuities in the bedrock that may require additional rock removal.

- The number of test holes at each pier location would be determined by the geotechnical engineer's representative based on the field test results.
- Significant discontinuous rock layers may require additional rock removal as directed by the engineer's representative.
- Prior to installation of the reinforcing steel cage, the base of each pier should be sounded to check for voids or clay seams in the underlying bedrock. This could be done by dropping the drill rig Kelly bar onto the exposed bedrock surface at selected locations.
- Visual evaluation of the exposed bearing surface should be performed by the engineer's representative to confirm that the base is free from loose material, soil, water or other unsuitable materials. Visual inspection to determine the suitability of the shaft bottom using either a flashlight or reflected light with a mirror may be conducted from the ground surface.

Equipment Building Foundation Design Parameters

Parameter	Column	Wall
Maximum net allowable bearing pressure on existing soils [1]	2,500 psf	2,000 psf
Minimum foundation plan dimensions	24 inches	18 inches
Required bearing stratum [2]	Engineered fill or lean concrete extending to at least stiff clay	
Ultimate coefficient of sliding friction	0.30	
Ultimate passive pressure [3]	350 psf (below 3 feet)	
Minimum embedment below finished grade for frost protection [4]	24 inches (42 inches if bearing on fat clay)	
Est. total settlement from structural loads [5]	< 1 inch	
Estimated differential settlement [5]	< 3/4 inch	

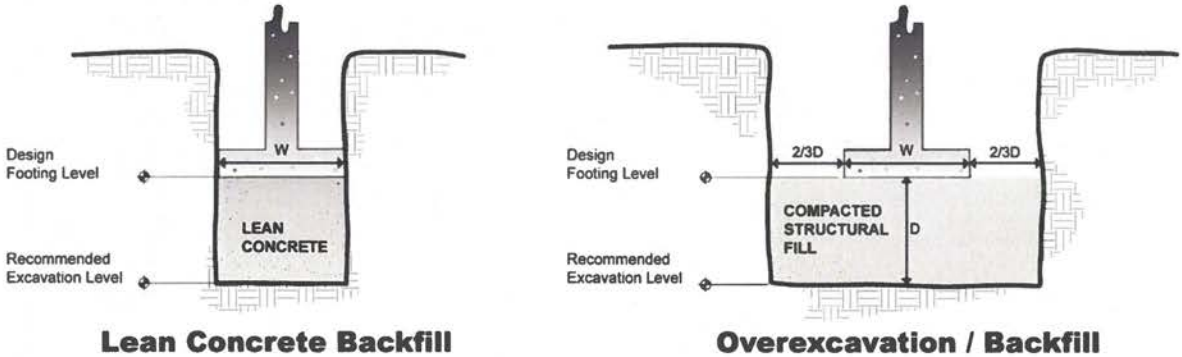
1. The maximum net allowable bearing pressure is the pressure in excess of the minimum surrounding overburden pressure at the footing base elevation. An appropriate factor of safety has been applied.
2. Unsuitable or soft soils should be undercut, and the footings should be deepened to bear on the competent bearing stratum or could bear on lean concrete extending from the foundation base to competent bearing stratum.
3. The sides of the excavation for the spread footing foundation must be nearly vertical and the concrete should be placed neat against these vertical faces for the passive earth pressure value to be valid. If the loaded side is sloped or benched, and then backfilled, the allowable passive pressure will be significantly reduced. Passive resistance in the upper 3 feet of the subsurface profile should be neglected.

4. For perimeter footing and footings beneath unheated areas. Also to reduce the effects of seasonal moisture variations in the subgrade soils. Any footings bearing on fat clay at minimum depths should be deepened to extend at least 42 inches below finished exterior grade (18 inches below the foundation bearing elevation) for additional protection against seasonal shrink/swell.
5. The foundation settlement will depend upon embedment depth of the footings, the quality of the earthwork operations, and conformance with soil improvement methods recommended in this report. The estimated settlements are based on recommended allowable bearing pressures, long-term settlement will depend on the quality and uniformity of the engineered fill placement.

Construction Considerations for Shallow Foundations

The base of all foundation excavations should be free of water and loose soil prior to placing concrete. Concrete should be placed soon after excavating to reduce bearing soil disturbance. Should the soils at bearing level become excessively dry, disturbed or saturated, or frozen, the affected soil should be removed prior to placing concrete. Place a lean concrete mud-mat over the bearing soils if the excavations must remain open over night or for an extended period of time. It is recommended that the geotechnical engineer be retained to observe and test the soil foundation bearing materials.

If unsuitable bearing soils are encountered in footing excavations, the excavations should be extended deeper to suitable soils and the footings could bear directly on these soils at the lower level or on lean concrete backfill (minimum of 500 psi) placed in the excavations. The footings could also bear on properly compacted lean clay backfill extending down to the suitable soils. Overexcavation for compacted lean clay backfill placement below footings should extend laterally beyond all edges of the footings at least 8 inches per foot of overexcavation depth below footing base elevation. The overexcavation should then be backfilled up to the footing base elevation with engineered fill as described in the **Compaction Requirements** section placed in lifts of 8 inches or less in loose thickness and compacted to at least 98 percent of the material's maximum dry density as defined by the Standard Proctor (ASTM D 698). The overexcavation and backfill procedure is illustrated in the following figures for lean concrete or lean clay structural fill.



Lean Concrete Backfill **Overexcavation / Backfill**

NOTE: Excavations in sketches shown vertical for convenience. Excavations should be sloped as necessary for safety.

FLOOR SLABS

Design Parameters

Item	Description
Floor slab support	Lean natural clay soils or engineered fill extending stiff native soils [1]
Modulus of subgrade reaction	100 pounds per square inch per in (psi/in) for point loading conditions
Aggregate base course/capillary break [2]	Minimum 4 inches of free draining granular material
Vapor Barrier	Project Specific [3]
Structural considerations	Floor slabs should be structurally independent of building [4]

1. In-situ high plasticity clays encountered in our borings are not suitable for floor slab support. These should be undercut and replace with 1.5 feet of low volume change material.
2. The floor slab design should include a capillary break, comprised of free-draining, compacted, granular material, at least 4 inches thick. Free-draining granular material should have less than 5 percent fines (material passing the #200 sieve).
3. The use of a vapor retarder should be considered beneath concrete slabs on grade that will be covered with wood, tile, carpet or other moisture sensitive or impervious coverings, or when the slab will support equipment sensitive to moisture. When conditions warrant the use of a vapor retarder, the slab designer should refer to ACI 302 and/or ACI 360 for procedures and cautions regarding the use and placement of a vapor retarder.
4. Floor slabs should be structurally independent of any building footings or walls to reduce the possibility of floor slab cracking caused by differential movements between the slab and foundation. Where floor slabs are tied to perimeter walls or turn-down slabs to meet structural or other construction objectives, our experience indicates that any differential movement between the walls and slabs will likely be observed in adjacent slab expansion joints or floor slab cracks that occur beyond the length of the structural dowels. The structural engineer should account for this potential differential settlement through use of sufficient control joints, appropriate reinforcing or other means.

Floor Slab Construction Considerations

Prior to construction of grade supported slabs, varying levels of remediation may be required to reestablish stable subgrades within slab areas due to construction traffic, rainfall, disturbance, desiccation, etc. As a minimum, the following measures are recommended.

- Confirm that interior trench backfill placed beneath slabs is compacted in accordance with recommendations outlined in the **Site Preparation** section of this report.

- All floor slab subgrade areas should be moisture conditioned and properly compacted to the recommendations in this report immediately prior to placement of the stone base and concrete.

Floor Slab Subgrade Preparation

To reduce the swell potential to a relatively small amount, less than about 1 inch, at least the upper 1.5 feet of subgrade soils below the floor slab (excluding any granular leveling course) should be Low Volume Change (LVC) material. High plasticity soils encountered in our borings at the floor slab bearing elevation should be undercut and replaced with 1.5 feet of Low Volume Change Material (LVC). Terracon should evaluate the material within 1.5 feet of the floor slab subgrade just prior to placement of any additional fill.

On most project sites, the site grading is generally accomplished early in the construction phase. However as construction proceeds, the subgrade may be disturbed due to utility excavations, construction traffic, desiccation, rainfall, etc. As a result, the floor slab subgrade may not be suitable for placement of aggregate base and concrete and corrective action will be required. Additional protection, stabilization measures may be necessary and requires specific field evaluation. We recommend floor subgrades be maintained in a relatively moist condition until floor slabs are constructed. If the subgrade should become desiccated prior to construction of floor slabs, the affected material should be removed or the materials scarified, moistened, and recompacted. Upon completion of grading operations in the building areas, care should be taken to maintain the recommended subgrade moisture content and density prior to construction of the equipment building floor slabs.

We recommend the area underlying the floor slab be rough graded and then thoroughly proofrolled with a loaded tandem-axle dump truck prior to final grading and placement of aggregate base. Particular attention should be paid to high traffic areas that were rutted and disturbed earlier and to areas where backfilled trenches are located. Areas where unsuitable conditions are located should be repaired by removing and replacing the affected material with properly compacted fill. All floor slab subgrade areas should be moisture conditioned and properly compacted to the recommendations in this report immediately prior to placement of the aggregate base and concrete.

GENERAL COMMENTS

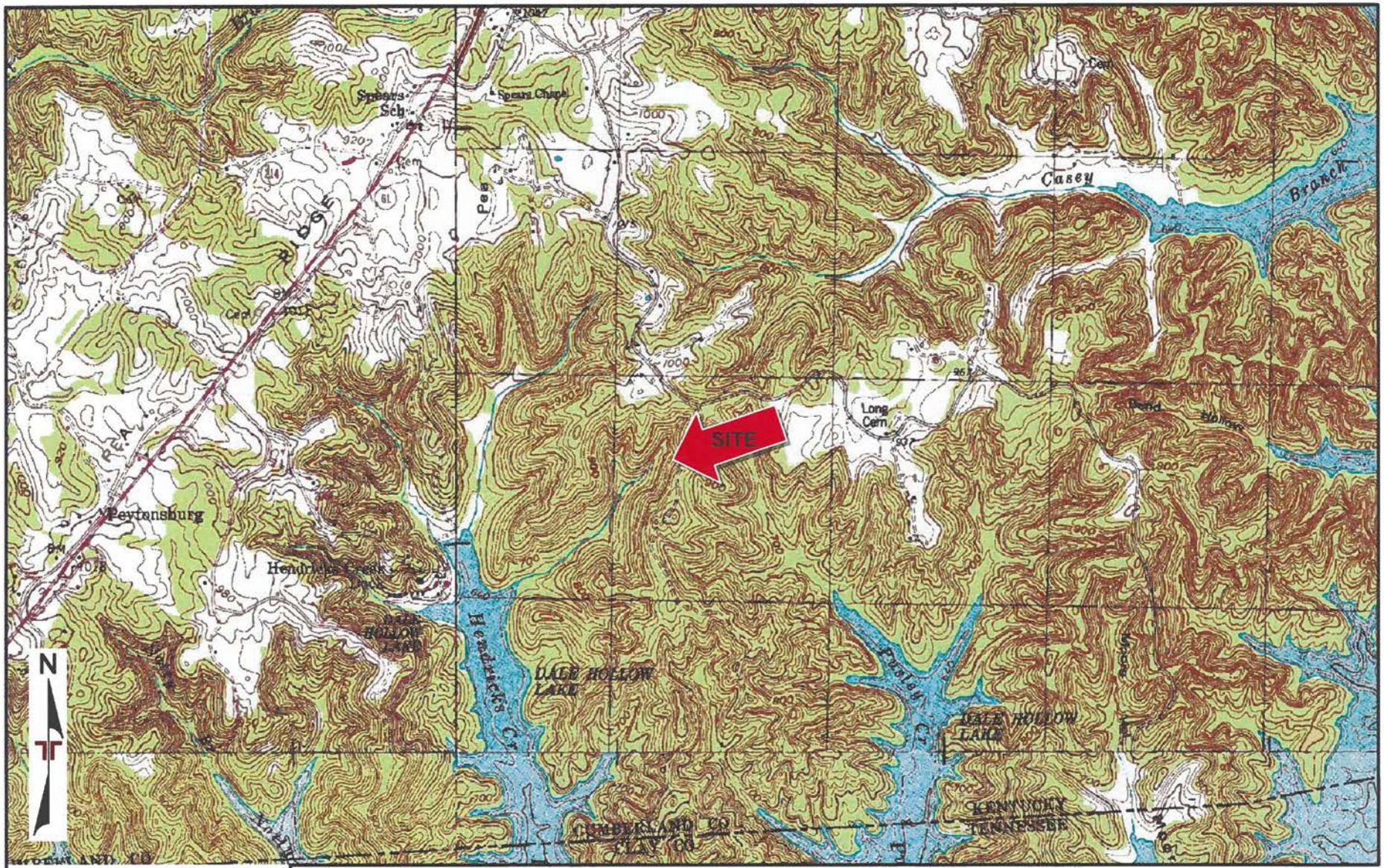
Our work is conducted with the understanding of the project as described, and will incorporate collaboration with the design team prior to completing our services. Terracon has requested verification of all stated assumptions. Revision of our understanding to reflect actual conditions important to our work will be based on these verifications and will be reflected in the final report. The design team should collaborate with Terracon to confirm these assumptions. The design team should also collaborate with Terracon to prepare the final design plans and specifications. This facilitates the incorporation of our opinions related to implementation of our geotechnical recommendations.

Our analysis and opinions are based upon our understanding of the geotechnical conditions in the area, the data obtained from the site exploration performed and from our understanding of the project. Variations will occur between exploration point locations, across the site, or due to the modifying effects of construction or weather. The nature and extent of such variations may not become evident until during or after construction. So, Terracon should be retained to provide observation and testing services during grading, excavation, foundation construction and other earth-related construction phases of the project. If variations appear, we can provide further evaluation and supplemental recommendations. If variations are noted in the absence of our observation and testing services on-site, we should be immediately notified so that we can provide evaluation and supplemental recommendations.

Our scope of services does not include either specifically or by implication any environmental or biological (e.g., mold, fungi, bacteria) assessment of the site or identification or prevention of pollutants, hazardous materials or conditions. If the owner is concerned about the potential for such contamination or pollution, other studies should be undertaken.

Our services and any correspondence are intended for the exclusive use of our client for specific application to the project discussed and are accomplished in accordance with generally accepted geotechnical engineering practices. No warranties, either express or implied, are intended or made.

Site characteristics as provided are for design purposes and not to estimate excavation cost. Any use of our report in that regard is done at the sole risk of the excavating cost estimator as there may be variations on the site that are not apparent in the data that could significantly impact excavation cost. Any parties charged with estimating excavation costs should seek their own site characterization for that specific purposes to obtain the specific level of detail necessary for costing. Site safety, and cost estimating including, excavation support, and dewatering requirements/design are the responsibility of others. In the event that changes in the nature, design, or location of the project are planned, our conclusions and recommendations shall not be considered valid unless we review the changes and either verify or modify our conclusions in writing.



TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGICAL SURVEY QUADRANGLES INCLUDE: BLACKS FERRY, KY (1/1/1982), FROGUE, KY (1/1/1981), DALE HOLLOW DAM, TN (1/1/1979) and DALE HOLLOW RESERVOIR SE, TN (1/1/1968). DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Manager:	RCO
Drawn by:	RCO
Checked by:	RJE
Approved by:	RJE

Project No.	57175011
Scale:	1"=2,000'
File Name:	Plans
Date:	3/21/2017

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY 40223-3915

SITE LOCATION PLAN

Hendricks Creek Tower
1407 Cherry Tree Ridge
Burkesville, Kentucky

Exhibit
A-1A

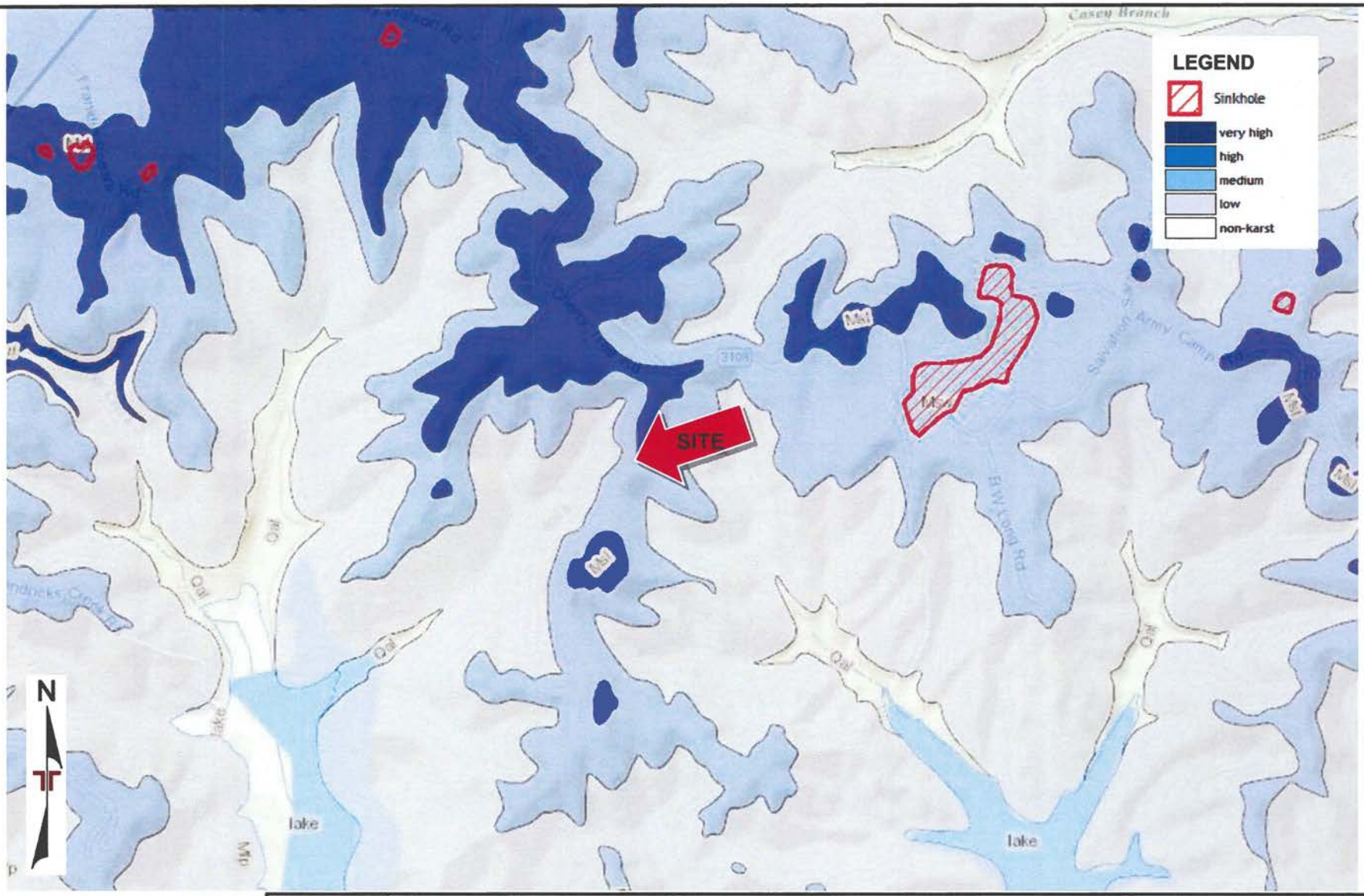


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Manager:	RCO
Drawn by:	RCO
Checked by:	RJE
Approved by:	RJE

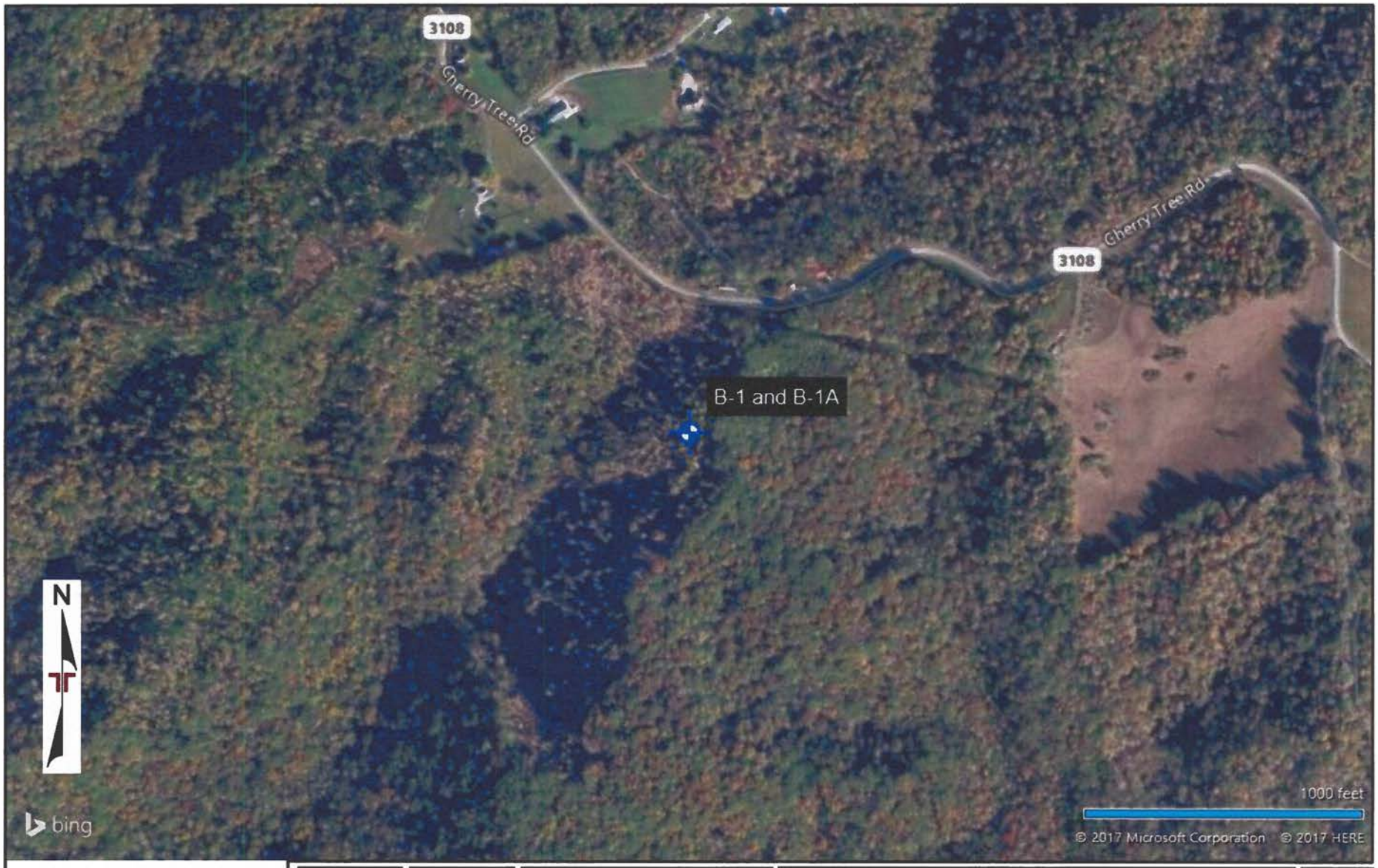
Project No.	57175011
Scale:	NTS
File Name:	Plans
Date:	3/21/2017

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY 40223-3915

KARST POTENTIAL PLAN

Hendricks Creek Tower
1407 Cherry Tree Ridge
Burkesville, Kentucky

Exhibit
A-1B



AERIAL PHOTOGRAPHY PROVIDED BY MICROSOFT BING MAPS

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Manager:	RCO
Drawn by:	RCO
Checked by:	RJE
Approved by:	RJE

Project No.	57175011
Scale:	AS SHOWN
File Name:	Plans
Date:	3/21/2017

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY 40223-3915

EXPLORATION PLAN

Hendricks Creek Tower
1407 Cherry Tree Ridge
Burkesville, Kentucky

Exhibit

A-2

BORING LOG NO. B-1

PROJECT: Hendricks Creek Tower

CLIENT: Bluegrass Cellular, Inc.
Elizabethtown, Kentucky

SITE: 1407 Cherry Tree Rd
Burkesville, Kentucky

LOCATION See Exhibit A-2

Latitude: 36.637772° Longitude: -85.362903°

Surface Elev.: 984.1 (Ft.)

DEPTH	ELEVATION (Ft.)	Description	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	ROCK CORE UNIAXIAL STRENGTH (psi)	ROCK CORE UNIT WEIGHT (pcf)	LABORATORY TORVANE/HP (psf)	UNCONFINED COMPRESSIVE STRENGTH (psf)	WATER CONTENT (%)	ATTERBERG LIMITS LL-PL-PI
0.7	983.5	**TOPSOIL**										
		LEAN CLAY (CL), with silt, reddish-brown with yellowish-brown, stiff, trace roots			X	3-5-6 N=11			5000 (HP)		28	
3.0	981	**FAT CLAY (CH)**, light reddish-brown with yellowish-brown, very stiff to hard - very stiff			X	6-7-8 N=15			8000+ (HP)		26	62-24-38
		- trace weathered limestone, trace root fragments extending to 8 ft	5		X	6-8-10 N=18			8000+ (HP)		29	67-26-41
		- with black oxidation nodules, hard	10		X	6-15-13 N=28			6000 (HP)		23	
12.0	972											
		SILT (ML), dark brown										
13.5	970.5											
14.0	970	**WEATHERED LIMESTONE**			X	50/2"					17	30-25-5
		SHALEY LIMESTONE, dark gray, fine-grained, unweathered - shale joints at 15 and 15.2 ft	15			RQD = 78%	11800	159.2				
17.5	966.5											
		LIMESTONE, light gray, medium-grained, unweathered - clay stained from about 18 to 19 ft - clay layer from about 18.3 to 18.8 ft	20			RQD = 95%	18770	162.7				
		- clay stained joint at 27.2 and 27.5 ft	25			RQD = 95%	12330	159.3				
29.0	955											
		Boring Terminated at 29 Feet										

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
3 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

WATER LEVEL OBSERVATIONS

No free water observed

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 2/23/2017 | Boring Completed: 2/23/2017

Drill Rig: CME 550 | Driller: S. Anderson

Project No.: 57175011 | Exhibit: A-3

BORING LOG NO. B-1A

PROJECT: Hendricks Creek Tower

CLIENT: Bluegrass Cellular, Inc.
Elizabethtown, Kentucky

SITE: 1407 Cherry Tree Rd
Burkesville, Kentucky

LOCATION See Exhibit A-2

Latitude: 36.637772° Longitude: -85.362903°

Surface Elev.: 984.1 (Ft.)

GRAPHIC LOG	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	ROCK CORE UNIAXIAL STRENGTH (psi)	ROCK CORE UNIT WEIGHT (pcf)	LABORATORY TORVANE/HP (psf)	UNCONFINED COMPRESSIVE STRENGTH (psf)	WATER CONTENT (%)	ATTERBERG LIMITS LL-PL-PI
	0.7	983.5										
	TOPSOIL											
	LEAN CLAY (CL), with silt, reddish-brown with yellowish-brown, stiff, trace roots				■					2847	24	42-18-24
	3.0	981										
	Boring Terminated at 3 Feet											

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
3 1/4" Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

WATER LEVEL OBSERVATIONS

No free water observed

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 2/23/2017 | Boring Completed: 2/23/2017

Drill Rig: CME 550 | Driller: S. Anderson

Project No.: 57175011 | Exhibit: A-4

Rock Core Photograph Log
Hendricks Creek Tower ■ Burkesville, Kentucky
March 21, 2017 ■ Terracon Project 57175011

Terracon

PHOTO #1 – Rock Core sample at B-1 from 14 to 24 feet below existing grade

PHOTO #2 – Rock Core sample at B-1 from 24 to 29 feet below existing grade

Summary of Laboratory Results

BORING ID	Depth	USCS Classification and Soil Description	Compressive Strength (psf)	Liquid Limit	Plastic Limit	Plasticity Index	% <#200 Sieve	% Gravel	% Sand	% Silt	% Clay	Water Content (%)	Dry Density (pcf)
B-1	1 - 2.5											28.3	
B-1	3.5 - 5			62	24	38						26.2	
B-1	6 - 7.5			67	26	41						29.3	
B-1	8.5 - 10											23.0	
B-1	13.5 - 13.7			30	25	5						17.1	
B-1	14 - 19												
B-1	19 - 24												
B-1	24 - 29												
B-1A	1 - 3		2847	42	18	24						23.9	100.7

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. OLD-LAB SUMMARY: USCS 57175011 HENDRICKS CREEK BORING LOGS.GPJ TERRACON2015.GDT 3/24/17

PROJECT: Hendricks Creek Tower

SITE: 1407 Cherry Tree Rd
Burkesville, Kentucky

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

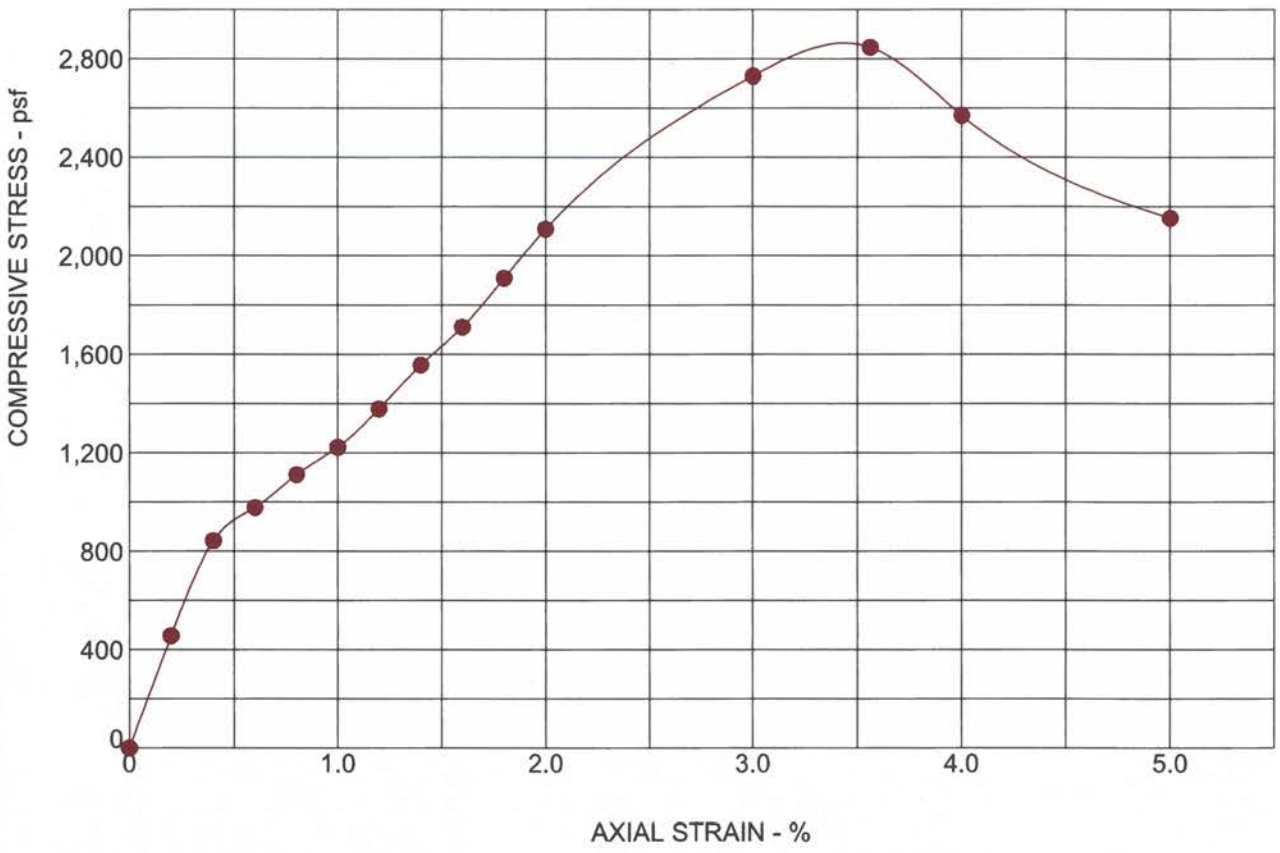
PROJECT NUMBER: 57175011

CLIENT: Bluegrass Cellular, Inc.
Elizabethtown, Kentucky

EXHIBIT: B-1

UNCONFINED COMPRESSION TEST

ASTM D2166



SPECIMEN FAILURE PHOTOGRAPH

SPECIMEN TEST DATA

Moisture Content:	%	24
Dry Density:	pcf	101
Diameter:	in.	2.83
Height:	in.	5.62
Height / Diameter Ratio:		1.98
Calculated Saturation:	%	
Calculated Void Ratio:		
Assumed Specific Gravity:		
Failure Strain:	%	3.56
Unconfined Compressive Strength	(psf)	2847
Undrained Shear Strength:	(psf)	1423
Strain Rate:	in/min	0.1124
Remarks:		

SAMPLE TYPE: Shelby Tube

SAMPLE LOCATION: B-1A @ 1 - 3 feet

SAMPLE DESCRIPTION:

LL	PL	PI	Percent < #200 Sieve

PROJECT: Hendricks Creek Tower

SITE: 1407 Cherry Tree Rd
Burkesville, Kentucky

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

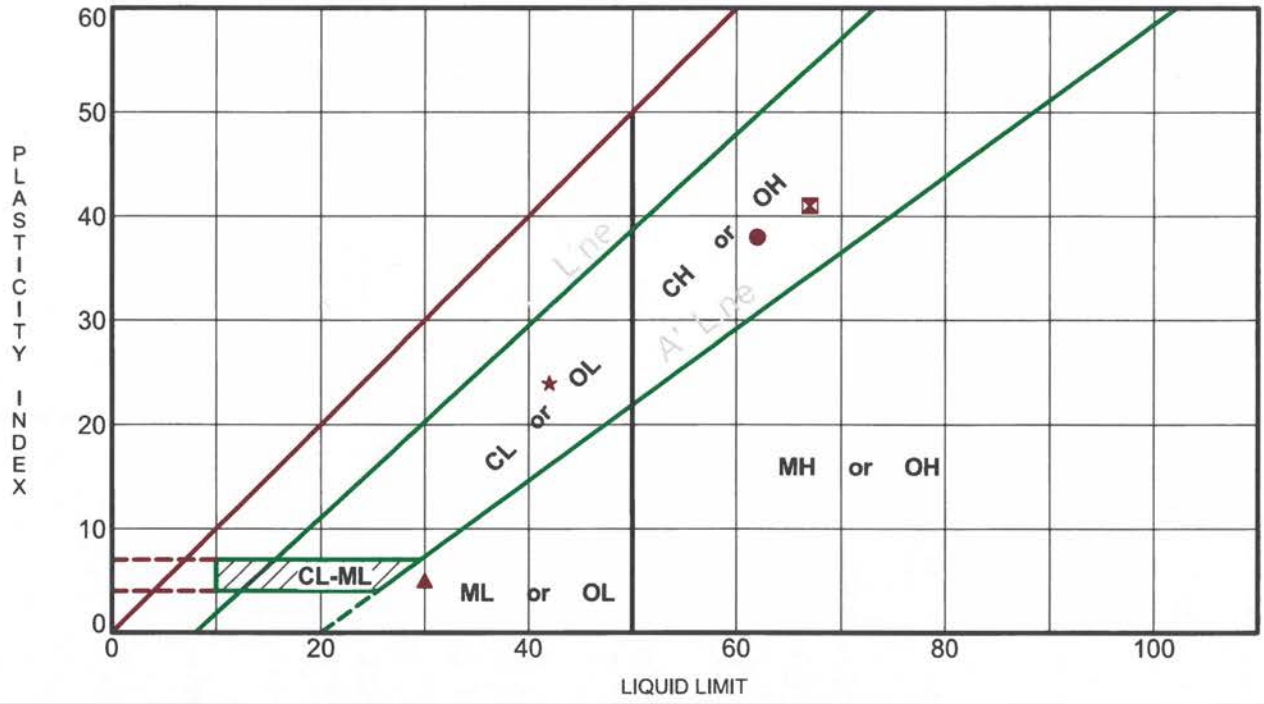
PROJECT NUMBER: 57175011

CLIENT: Bluegrass Cellular, Inc.
Elizabethtown, Kentucky

EXHIBIT: B-2

ATTERBERG LIMITS RESULTS

ASTM D4318



Boring ID	Depth	LL	PL	PI	Fines	USCS	Description
● B-1	3.5 - 5	62	24	38			
⊠ B-1	6 - 7.5	67	26	41			
▲ B-1	13.5 - 13.7	30	25	5			
★ B-1A	1 - 3	42	18	24			

PROJECT: Hendricks Creek Tower

SITE: 1407 Cherry Tree Rd
Burkesville, Kentucky

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

PROJECT NUMBER: 57175011

CLIENT: Bluegrass Cellular, Inc.
Elizabethtown, Kentucky

EXHIBIT: B-3

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ATTERBERG LIMITS 57175011 HENDRICKS CREEK BORING LOGS.GPJ TERRACON2015.GDT 3/24/17

GENERAL NOTES

DRILLING & SAMPLING SYMBOLS:

SS:	Split Spoon - 1-3/8" I.D., 2" O.D., unless otherwise noted	HS:	Hollow Stem Auger
ST:	Thin-Walled Tube – 2" O.D., 3" O.D., unless otherwise noted	PA:	Power Auger (Solid Stem)
RS:	Ring Sampler - 2.42" I.D., 3" O.D., unless otherwise noted	HA:	Hand Auger
DB:	Diamond Bit Coring - 4", N, B	RB:	Rock Bit
BS:	Bulk Sample or Auger Sample	WB	Wash Boring or Mud Rotary

The number of blows required to advance a standard 2-inch O.D. split-spoon sampler (SS) the last 12 inches of the total 18-inch penetration with a 140-pound hammer falling 30 inches is considered the "Standard Penetration" or "N-value".

WATER LEVEL MEASUREMENT SYMBOLS:

WL:	Water Level	WS:	While Sampling	BCR:	Before Casing Removal
WCI:	Wet Cave in	WD:	While Drilling	ACR:	After Casing Removal
DCI:	Dry Cave in	AB:	After Boring	N/E:	Not Encountered

Water levels indicated on the boring logs are the levels measured in the borings at the times indicated. Groundwater levels at other times and other locations across the site could vary. In pervious soils, the indicated levels may reflect the location of groundwater. In low permeability soils, the accurate determination of groundwater levels may not be possible with only short-term observations.

DESCRIPTIVE SOIL CLASSIFICATION: Soil classification is based on the Unified Soil Classification System. Coarse Grained Soils have more than 50% of their dry weight retained on a #200 sieve; their principal descriptors are: boulders, cobbles, gravel or sand. Fine Grained Soils have less than 50% of their dry weight retained on a #200 sieve; they are principally described as clays if they are plastic, and silts if they are slightly plastic or non-plastic. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size. In addition to gradation, coarse-grained soils are defined on the basis of their in-place relative density and fine-grained soils on the basis of their consistency.

CONSISTENCY OF FINE-GRAINED SOILS

Unconfined Compressive Strength, Qu, psf	Standard Penetration or N-value (SS) Blows/Ft.	Consistency
< 500	>2	Very Soft
500 – 1,000	2 - 3	Soft
1,000 – 2,000	4 - 6	Medium Stiff
2,000 – 4,000	7 - 12	Stiff
4,000 – 8,000	13 - 26	Very Stiff
8,000+	> 26	Hard

RELATIVE DENSITY OF COARSE-GRAINED SOILS

Standard Penetration or N-value (SS) Blows/Ft.	Relative Density
0 – 3	Very Loose
4 – 9	Loose
10 – 29	Medium Dense
30 – 50	Dense
> 50	Very Dense

RELATIVE PROPORTIONS OF SAND AND GRAVEL

Descriptive Term(s) of other constituents	Percent of Dry Weight
Trace	< 15
With	15 – 29
Modifier	≥ 30

GRAIN SIZE TERMINOLOGY

Major Component of Sample	Particle Size
Boulders	Over 12 in. (300mm)
Cobbles	12 in. to 3 in. (300mm to 75mm)
Gravel	3 in. to #4 sieve (75mm to 4.75mm)
Sand	#4 to #200 sieve (4.75 to 0.075mm)
Silt or Clay	Passing #200 Sieve (0.075mm)

RELATIVE PROPORTIONS OF FINES

Descriptive Term(s) of other constituents	Percent of Dry Weight
Trace	< 5
With	5 – 12
Modifier	> 12

PLASTICITY DESCRIPTION

Term	Plasticity Index
Non-plastic	0
Low	1-10
Medium	11-30
High	> 30

UNIFIED SOIL CLASSIFICATION SYSTEM

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests [A]					Soil Classification	
					Group Symbol	Group Name [B]
Coarse Grained Soils: More than 50% retained on No. 200 sieve	**Gravels:** More than 50% of coarse fraction retained on No. 4 sieve	**Clean Gravels:** Less than 5% fines [C]	$Cu \geq 4$ and $1 \leq Cc \leq 3$ [E]		GW	Well-graded gravel [F]
			$Cu < 4$ and/or $1 > Cc > 3$ [E]		GP	Poorly graded gravel [F]
		Gravels with Fines: More than 12% fines [C]	Fines classify as ML or MH		GM	Silty gravel [F,G,H]
			Fines classify as CL or CH		GC	Clayey gravel [F,G,H]
	Sands: 50% or more of coarse fraction passes No. 4 sieve	**Clean Sands:** Less than 5% fines [D]	$Cu \geq 6$ and $1 \leq Cc \leq 3$ [E]		SW	Well-graded sand [I]
			$Cu < 6$ and/or $1 > Cc > 3$ [E]		SP	Poorly graded sand [I]
		Sands with Fines: More than 12% fines [D]	Fines classify as ML or MH		SM	Silty sand [G,H,I]
			Fines Classify as CL or CH		SC	Clayey sand [G,H,I]
Fine-Grained Soils: 50% or more passes the No. 200 sieve	**Silts and Clays:** Liquid limit less than 50	**Inorganic:**	PI > 7 and plots on or above "A" line [J]		CL	Lean clay [K,L,M]
			PI < 4 or plots below "A" line [J]		ML	Silt [K,L,M]
		Organic:	Liquid limit - oven dried	< 0.75	OL	Organic clay [K,L,M,N]
			Liquid limit - not dried			Organic silt [K,L,M,O]
	Silts and Clays: Liquid limit 50 or more	**Inorganic:**	PI plots on or above "A" line		CH	Fat clay [K,L,M]
			PI plots below "A" line		MH	Elastic Silt [K,L,M]
		Organic:	Liquid limit - oven dried	< 0.75	OH	Organic clay [K,L,M,P]
			Liquid limit - not dried			Organic silt [K,L,M,Q]
Highly organic soils:	Primarily organic matter, dark in color, and organic odor				PT	Peat

[A] Based on the material passing the 3-in. (75-mm) sieve

[B] If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.

[C] Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.

[D] Sands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay

[E] $Cu = D_{60}/D_{10}$ $\quad Cc = \dfrac{(D_{30})^2}{D_{10} \times D_{60}}$

[F] If soil contains ≥ 15% sand, add "with sand" to group name.

[G] If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.

[H] If fines are organic, add "with organic fines" to group name.

[I] If soil contains ≥ 15% gravel, add "with gravel" to group name.

[J] If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.

[K] If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.

[L] If soil contains ≥ 30% plus No. 200 predominantly sand, add "sandy" to group name.

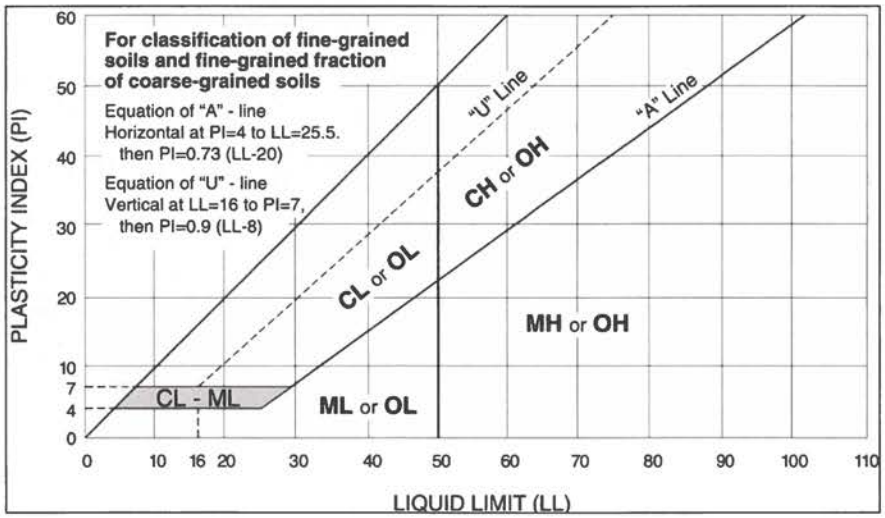
[M] If soil contains ≥ 30% plus No. 200, predominantly gravel, add "gravelly" to group name.

[N] PI ≥ 4 and plots on or above "A" line.

[O] PI < 4 or plots below "A" line.

[P] PI plots on or above "A" line.

[Q] PI plots below "A" line.



Terracon

Exhibit C-2

GENERAL NOTES

Description of Rock Properties

WEATHERING

Fresh	Rock fresh, crystals bright, few joints may show slight staining. Rock rings under hammer if crystalline.
Very slight	Rock generally fresh, joints stained, some joints may show thin clay coatings, crystals in broken face show bright. Rock rings under hammer if crystalline.
Slight	Rock generally fresh, joints stained, and discoloration extends into rock up to 1 in. Joints may contain clay. In granitoid rocks some occasional feldspar crystals are dull and discolored. Crystalline rocks ring under hammer.
Moderate	Significant portions of rock show discoloration and weathering effects. In granitoid rocks, most feldspars are dull and discolored; some show clayey. Rock has dull sound under hammer and shows significant loss of strength as compared with fresh rock.
Moderately severe	All rock except quartz discolored or stained. In granitoid rocks, all feldspars dull and discolored and majority show kaolinization. Rock shows severe loss of strength and can be excavated with geologist's pick.
Severe	All rock except quartz discolored or stained. Rock "fabric" clear and evident, but reduced in strength to strong soil. In granitoid rocks, all feldspars kaolinized to some extent. Some fragments of strong rock usually left.
Very severe	All rock except quartz discolored or stained. Rock "fabric" discernible, but mass effectively reduced to "soil" with only fragments of strong rock remaining.
Complete	Rock reduced to "soil". Rock "fabric" not discernible or discernible only in small, scattered locations. Quartz may be present as dikes or stringers.

HARDNESS (for engineering description of rock – not to be confused with Moh's scale for minerals)

Very hard	Cannot be scratched with knife or sharp pick. Breaking of hand specimens requires several hard blows of geologist's pick.
Hard	Can be scratched with knife or pick only with difficulty. Hard blow of hammer required to detach hand specimen.
Moderately hard	Can be scratched with knife or pick. Gouges or grooves to ¼ in. deep can be excavated by hard blow of point of a geologist's pick. Hand specimens can be detached by moderate blow.
Medium	Can be grooved or gouged 1/16 in. deep by firm pressure on knife or pick point. Can be excavated in small chips to pieces about 1-in. maximum size by hard blows of the point of a geologist's pick.
Soft	Can be gouged or grooved readily with knife or pick point. Can be excavated in chips to pieces several inches in size by moderate blows of a pick point. Small thin pieces can be broken by finger pressure.
Very soft	Can be carved with knife. Can be excavated readily with point of pick. Pieces 1-in. or more in thickness can be broken with finger pressure. Can be scratched readily by fingernail.

Joint, Bedding and Foliation Spacing in Rock[a]

Spacing	Joints	Bedding/Foliation
Less than 2 in.	Very close	Very thin
2 in. – 1 ft.	Close	Thin
1 ft. – 3 ft.	Moderately close	Medium
3 ft. – 10 ft.	Wide	Thick
More than 10 ft.	Very wide	Very thick

Rock Quality Designator (RQD)[b]		**Joint Openness Descriptors**	
RQD, as a percentage	Diagnostic description	Openness	Descriptor
Exceeding 90	Excellent	No Visible Separation	Tight
90 – 75	Good	Less than 1/32 in.	Slightly Open
75 – 50	Fair	1/32 to 1/8 in.	Moderately Open
50 – 25	Poor	1/8 to 3/8 in.	Open
Less than 25	Very poor	3/8 in. to 0.1 ft.	Moderately Wide
		Greater than 0.1 ft.	Wide

a. Spacing refers to the distance normal to the planes, of the described feature, which are parallel to each other or nearly so.

b. RQD (given as a percentage) = length of core in pieces 4 in. and longer/length of run.

References: American Society of Civil Engineers. Manuals and Reports on Engineering Practice - No. 56. Subsurface Investigation for Design and Construction of Foundations of Buildings. New York: American Society of Civil Engineers, 1976.

U.S. Department of the Interior, Bureau of Reclamation, Engineering Geology Field Manual.

Directions to Site

FROM CUMBERLAND COUNTY JUSTICE CENTER, 112 COURTHOUSE SQUARE, BURKESVILLE, KY 42717: HEAD SOUTHEAST ON HILL ST (187 FT). CONTINUE STRAIGHT ONTO KY-61 S/KY-90 E/N MAIN ST (0.6 MI). TURN RIGHT ONTO KY-61 S (9.5 MI). TURN LEFT ONTO STATE HWY 3108 (0.2 MI). TURN LEFT TO STAY ON STATE HWY 3108 (0.2 MI). TURN RIGHT TO STAY ON STATE HWY 3108 (1.2 MI). SITE IS ON THE RIGHT (SOUTH SIDE OF THE ROAD).

PREPARED BY: POWER OF DESIGN GROUP, LLC - (502) 437-5252

6-17-19
1:45pm

Please Return to:
Bluegrass Cellular, Inc.
P.O. Box 5012
Elizabethtown, Kentucky 42702 *Site Name: Hendricks Creek*

MEMORANDUM OF LEASE

THIS MEMORANDUM OF LEASE AGREEMENT (this "Memorandum") is made as of the 14 day of December, 2016 by and between Frank A.B. Brendel, Jr. & Patricia H. Brendel, (the "Landlord(s)") whose address is 945 Hendricks Creek Rd., Burkesville, KY 42717, by and through their attorney in fact Patricia "Patty" Brendel, and Cumberland Cellular Partnership (a Kentucky general Partnership), (the "Tenant"), having its principal office and place of business at 2902 Ring Road, Elizabethtown, Kentucky 42701.

WHEREAS, Landlord owns certain real property, located in Cumberland County, Kentucky (the "Property"), and

WHEREAS, under a certain Option to Lease or Purchase Real Property and Lease Agreement, dated 14 December 2016 (the "Agreement"), Landlord leased to Tenant and Tenant leased from Landlord a certain parcel of the Property and Landlord also granted Tenant a right of way over a portion of the Property for the purpose of ingress and egress (the leased parcel and right of way being described on **Exhibit A** attached hereto and being referred to herein as the "Leased Premises"), and

WHEREAS, Landlord leases to Tenant the Leased Premises TO HAVE AND TO HOLD upon Tenant's paying the rent and other charges provided for under the Agreement and observing the covenants and conditions set forth in the Agreement, for a term of **five (5)** years, and which has **six (6) additional five (5) year terms** with respect to each such renewal option.

WHEREAS, before Landlord's interest in the Lease, is sold, assigned or transferred in any manner whatsoever (with or without consideration), the Tenant shall have a right of first refusal to acquire whatever interest in the Lease that the Landlord proposes to transfer (the "Proposed Transfer"), on the terms and conditions set forth below (the "Right of First Refusal").

(a) Landlord shall deliver to the Tenant a written notice (the "Notice") stating the name of the proposed purchaser or transferee and the material terms and conditions of the Proposed Transfer.

(b) At any time within thirty (30) days after receipt of the Notice, the Tenant may, by giving written notice to the Landlord ("Tenant's Notice"), elect to exercise its Right of First Refusal and acquire the interest in the Lease proposed to be transferred pursuant to the Proposed Transfer at the purchase price and on the same terms and conditions as are contained in the offer(s) made to the Landlord to acquire any interest in the Lease ("Offer"). If the Offer includes consideration other than cash, the cash equivalent value of the non-cash consideration shall be

determined by the Tenant in good faith. In the event, Tenant exercises its right to acquire the interest in the Lease, the Landlord shall convey, assign and/or transfer said interest to Tenant free and clear of all liens and encumbrances whatsoever (other than this Lease, which Lease shall remain in effect). All taxes, rents and other assessments applicable to the transferred interest, if any, shall be prorated to the date of closing. The Closing shall occur within thirty (30) days from the date of Tenant's Notice.

(c) If the Tenant declines to exercise its Right of First Refusal to acquire the interest in the Lease proposed to be transferred, the Landlord may sell or transfer same in accordance with the terms of the Offer subject, however, to this Lease and the Tenant's rights thereunder.

NOW, THEREFORE, this Memorandum is executed by the undersigned parties with the intention that the same shall be filed for the record in the Office of the Clerk of Cumberland County, Kentucky, to give notice of the existence of Tenant's leasehold estate in and to the Leased Premises under the Agreement, the terms of which Agreement are incorporated herein by express reference.

IN WITNESS WHEREOF, the undersigned parties have each caused this Memorandum to be executed as of the 14 day of December 2016

Landlord:	**Tenant:**
Name: Frank A.B. Brendel Jr. Sign: Frank A.B. Brendel Jr. Date: 12 December '16 By: Patricia "Patty" Brendel Attorney in Fact Name: Patricia H. Brendel Sign: Patricia H. Brendel Date: 12 December '16 By: Patricia "Patty" Brendel Attorney in Fact Property Owner(s)	Cumberland Cellular Partnership (a Kentucky general partnership) Sign: _____ Date: 12/14/16 Scott W. McCloud / Authorized Signature

COMMONWEALTH OF KENTUCKY
) SS:
COUNTY OF Cumberland

The foregoing instrument was acknowledged before me this 12 day of December, 2016 by, Patricia "Patty" Brendel, as attorney in fact for Frank A.B. Brendel Jr. and Patricia H. Brendel, to be her free act and deed.

My Commission Expires: 1/7/2020

Kimberly Johnson
Notary Public

COMMONWEALTH OF KENTUCKY
) SS:
COUNTY OF HARDIN

This foregoing instrument was acknowledged before me this 14 day of December, 2016 by Scott W. McCloud, as Authorized Representative on behalf of Cumberland Cellular Partnership, (a Kentucky general partnership).

My Commission Expires: 1-21-17

Notary Public

This instrument prepared by:

John R. Rhorer, Jr.
Dinsmore & Shohl, LLP
250 West Main Street, Suite 1400
Lexington, KY 40507
(859) 425-1000

Landmark Surveying Co., Inc.

Darren L. Helms, P.L.S., PRESIDENT
Dennis N. Helms, P.L.S., VICE PRESIDENT

15 N.E. 3rd Street
Washington, Indiana 47501
Phone: 812-257-0950
Fax: 812-257-0953
Email: landmark97@sbcglobal.net

Lease Boundary and Easement Descriptions

Landowner: *Frank A. B. Brendel, Jr., et al.*
Date: *March 6, 2017*
Client: *Bluegrass Cellular, Inc.*
Project No.: *17-01-0103*
Client's Address: *2902 Ring Road, Elizabethtown, Kentucky 42701*
Site Name: *Hendricks Creek*

This is to certify that I have this day written a lease boundary description and easement description at the request of Mr. Tim Ash of Bluegrass Cellular. The descriptions should read as follows:

A tract of land that is located 1,300 feet southeast of the intersection of Cherry Tree Road (Kentucky Highway 3108) and Dewey Young Road in the Peytonsburg Community of Cumberland County, Kentucky; said tract being described as follows:

COMMENCING AT a 5/8-inch rebar set flush with a survey cap inscribed "D.L. Helms PLS 3386" (referred to as a rebar set in the remainder of this description) on the south right of way of Cherry Tree Road (Kentucky Highway 3108), being 25 feet from the centerline of said road, at the northeast corner of the 128.4-acre tract described in deed to Frank A. B. Brendel on September 21, 1953 in Deed Book 62, page 78 in the office of the County Clerk of Cumberland County, Kentucky; said corner has a Latitude of 36°38'20.47" North and a Longitude of 85°21'45.36" West; thence along the east boundary of said 128.4-acre tract, which is the center of an existing dirt lane, the following seven (7) courses: (1) South 33 degrees 15 minutes 07 seconds East 91.21 feet to a rebar set flush; (2) South 24 degrees 41 minutes 51 seconds East 46.99 feet to a rebar set flush; (3) South 18 degrees 20 minutes 00 seconds East 42.29 feet to a rebar set flush; (4) South 10 degrees 23 minutes 06 seconds East 33.91 feet to a rebar set flush; (5) South 13 degrees 43 minutes 56 seconds West 23.27 feet to a rebar set flush; (6) South 29 degrees 32 minutes 54 seconds West 180.90 feet to a rebar set flush and (7) South 18 degrees 29 minutes 47 seconds West 37.30 feet to a rebar set flush; thence, leaving said east boundary, North 87 degrees 48 minutes 42 seconds West 16.80 feet to a rebar set flush at the **POINT OF BEGINNING** of this description: thence South 02 degrees 11 minutes 18 seconds West 100.00 feet to a rebar set flush; thence North 87 degrees 48 minutes 42 second West 100.00 feet to a rebar set flush; thence North 02 degrees 11 minutes 18 seconds East 100.00 feet to a rebar set flush; thence South 87 degrees 48 minutes 42 second East 100.00 feet to the point of beginning and containing 0.230 acres (10,000 square feet), more or less.

TOGETHER WITH an access and utility easement from the above-described 0.230-acre lease tract to Cherry Tree Road (Kentucky Highway 3108); said easement being described as follows: **BEGINNING AT** a 5/8-inch rebar set flush with a survey cap inscribed "D.L. Helms PLS 3386" (referred to as a rebar set in the remainder of this description) at the northeast corner of the above-described 0.230-acre lease tract; thence North 87 degrees 48 minutes 42 seconds West 100.00 feet to a rebar set flush at the northwest corner of the above-described 0.230-acre lease tract; thence North 02 degrees 11 minutes 18 seconds East 20.00 feet; thence South 87 degrees 48 minutes 42 seconds East 71.28 feet; thence North 48 degrees 02 minutes 35 seconds East 70.82 feet; thence North 29 degrees 32 minutes 54 seconds East 150.73 feet; thence North 13 degrees 43 minutes 56 seconds East 16.22 feet; thence North 10 degrees 23 minutes 06 seconds West 28.25 feet; thence North 18 degrees 20 minutes 00 seconds West 39.79 feet; thence North 24 degrees 41 minutes 51 seconds West 44.38 feet; thence North 33 degrees 15 minutes 07 seconds West 105.77 feet to the south right of way of Cherry Tree Road, being 25 feet from the centerline; thence, along said south right of way, South 84 degrees 30 minutes 05 seconds East 25.64 feet to a rebar set flush at the northeast corner of said 128.4-acre tract; thence along the east boundary of said 128.4-acre tract, which is the center of an existing dirt lane, the following seven (7) courses: (1) South 33 degrees 15 minutes 07 seconds East 91.21 feet to a rebar set flush; (2) South 24 degrees 41 minutes 51 seconds East 46.99 feet to a rebar set flush; (3) South 18 degrees 20 minutes 00 seconds East 42.29 feet to a rebar set flush; (4) South 10 degrees 23 minutes 06 seconds East 33.91 feet to a rebar set flush; (5) South 13 degrees 43 minutes 56 seconds West 23.27 feet to a rebar set flush; (6) South 29 degrees 32 minutes 54 seconds West 180.90 feet to a rebar set flush and (7) South 18 degrees 29 minutes 47 seconds West 37.30 feet to a rebar set flush; thence, leaving said east boundary, North 87 degrees 48 minutes 42 seconds West 16.80 feet to the point of beginning.

The bearing system of these descriptions is based upon the Kentucky State Plane Coordinate System, South Zone, NAD 83 (2011), as determined by G.P.S. observations made on February 17, 2017 using the Kentucky Transportation Cabinet's KYCORS NAD83 2011 Network. This bearing system is grid north.

These descriptions are based upon a survey completed by Landmark Surveying Co., Inc. and certified by Darren L. Helms, P.L.S. 3386, on March 6, 2017.

Darren L. Helms

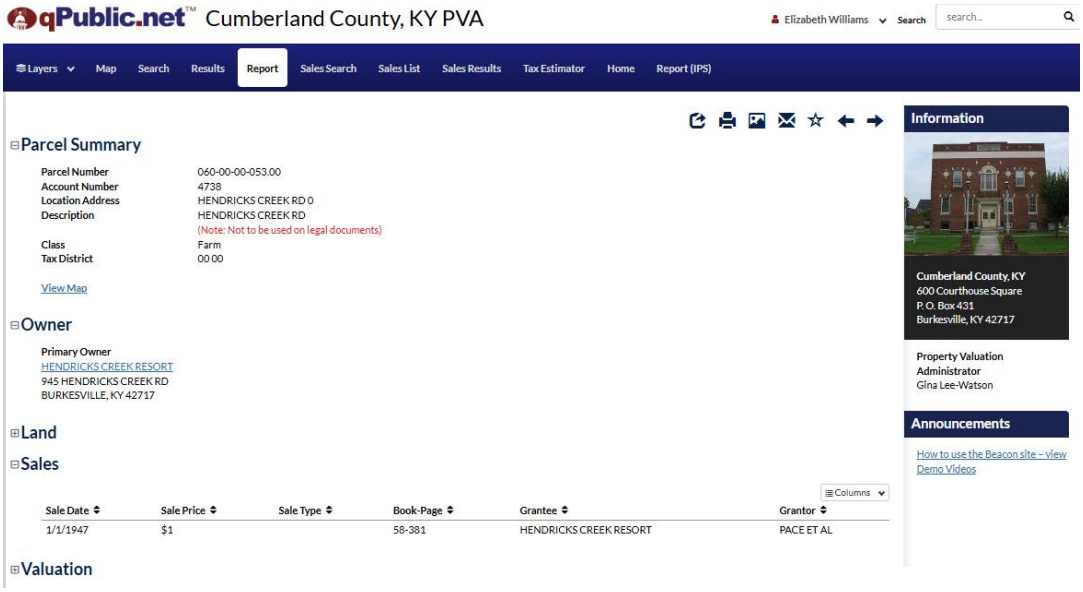
Darren L. Helms, P.L.S. 3386

STATE OF KENTUCKY
DARREN L. HELMS
3386
LICENSED
PROFESSIONAL
LAND SURVEYOR

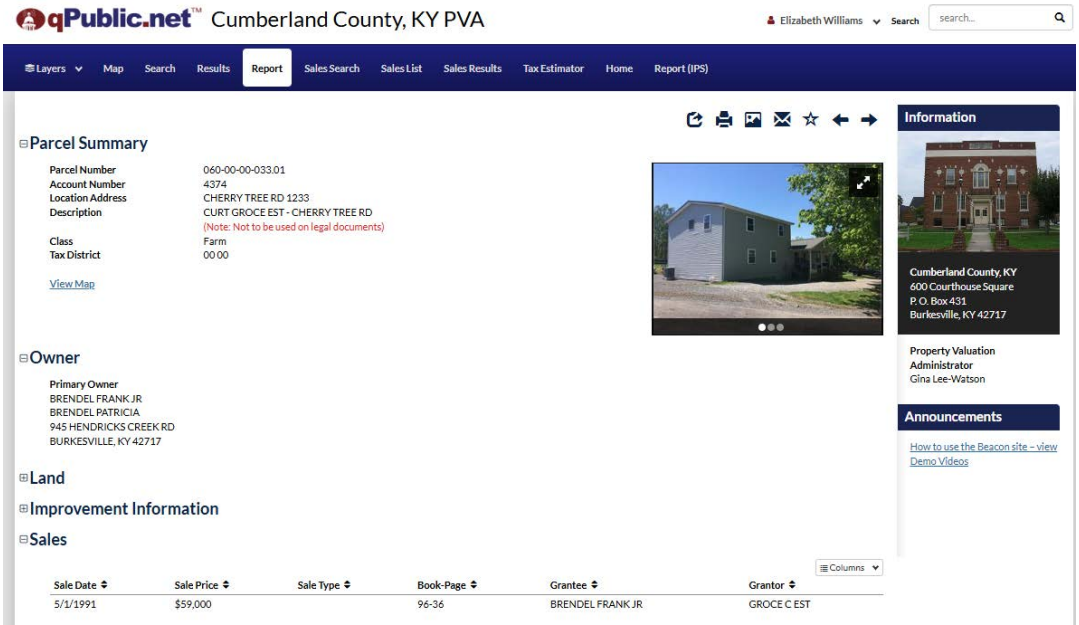
STATE OF KENTUCKY
COUNTY OF CUMBERLAND, SCT.,
This instrument was filed for record on the 17 day of June 2019 at 1:45 o'clock P M., and duly Recorded in Deed Book No. 175 Page No. 6 of the records in this office.
Given under my hand this the 17 day of June 2019
KIM KING, CLERK
Elizabeth Anderson D.C.

Notification Listing with PVA Screenshots

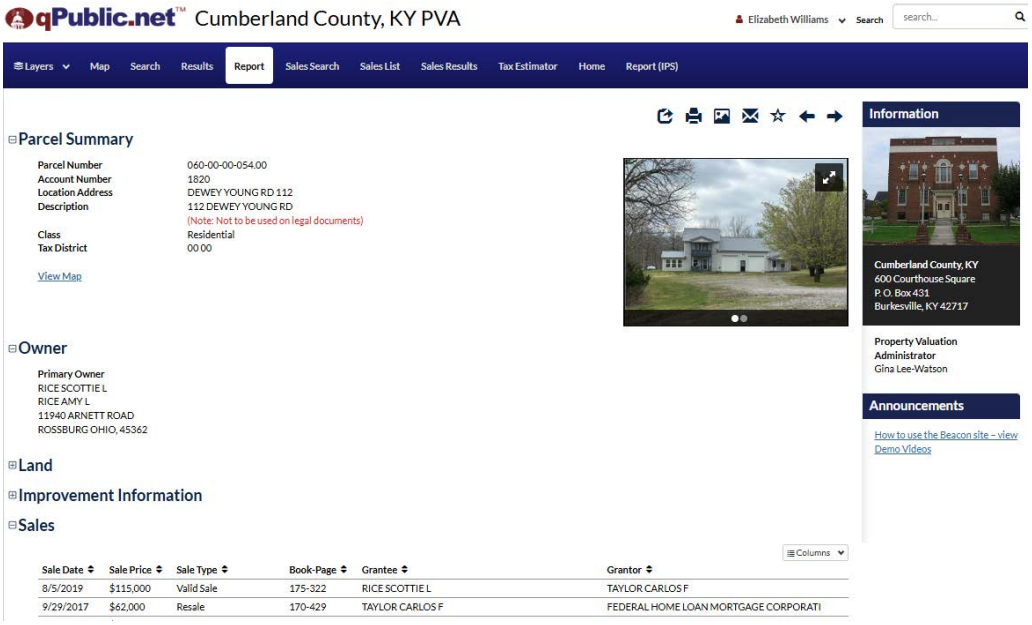
Parcel Number 060-00-00-053.00
HENDRICKS CREEK RESORT
945 HENDRICKS CREEK RD
BURKESVILLE, KY 42717



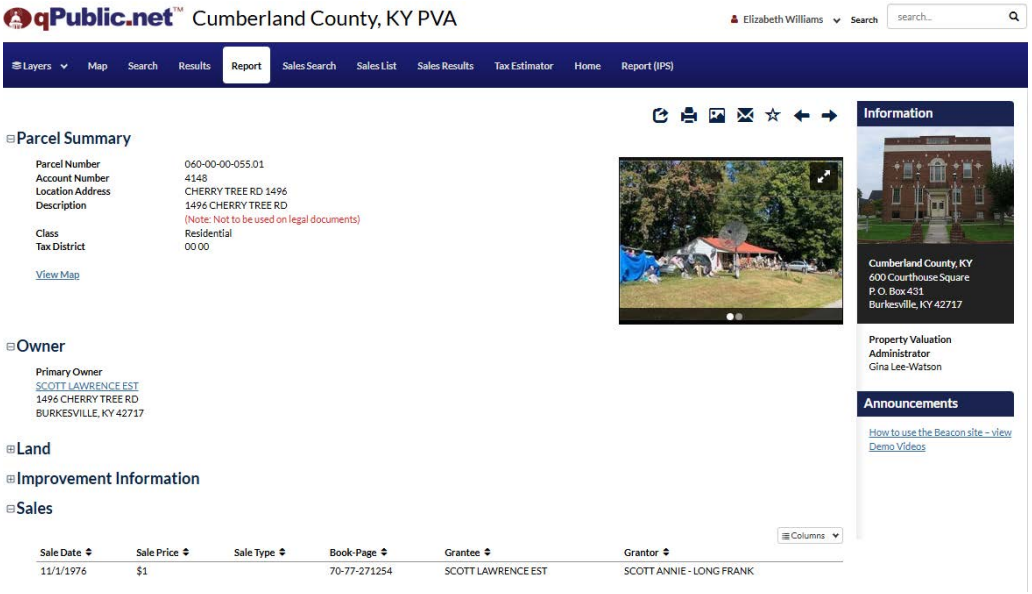
Parcel Number 060-00-00-033.01
BRENDEL FRANK JR
BRENDEL PATRICIA
945 HENDRICKS CREEK RD
BURKESVILLE, KY 42717



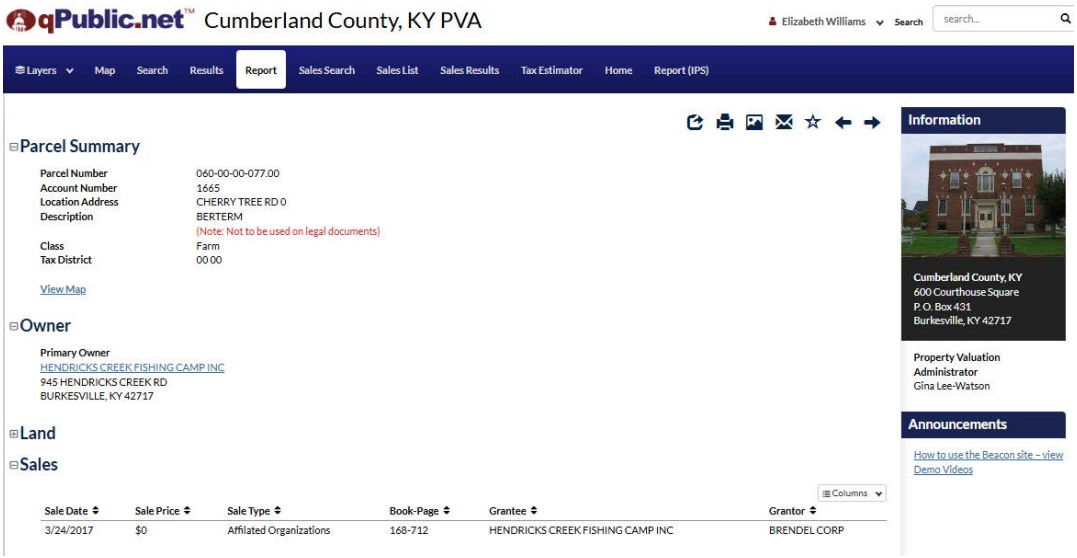
Parcel Number 060-00-00-054.00
RICE SCOTTIE L
RICE AMY L
11940 ARNETT ROAD
ROSSBURG OHIO, 45362



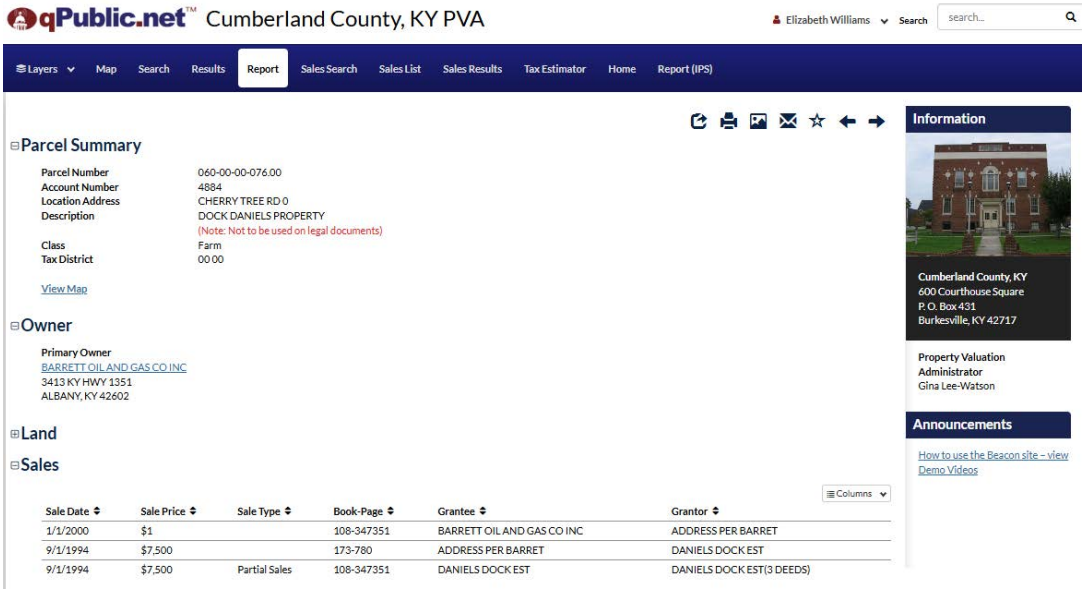
Parcel Number 060-00-00-055.01
SCOTT LAWRENCE EST
1496 CHERRY TREE RD
BURKESVILLE, KY 42717



Parcel Number 060-00-00-077.00
HENDRICKS CREEK FISHING CAMP INC
945 HENDRICKS CREEK RD
BURKESVILLE, KY 42717



Parcel Number 060-00-00-076.00
BARRETT OIL AND GAS CO INC
3413 KY HWY 1351
ALBANY, KY 42602



Parcel Number 060-00-00-075.00
HENDRICKS CREEK FISHING CAMP INC
945 HENDRICKS CREEK RD
BURKESVILLE, KY 42717

qPublic.net™ Cumberland County, KY PVA

Elizabeth Williams | Search | search...

Layers | Map | Search | Results | Report | Sales Search | Sales List | Sales Results | Tax Estimator | Home | Report (IPS)

Parcel Summary

Parcel Number	060-00-00-075.00
Account Number	1665
Location Address	CHERRY TREE RD 0
Description	KINBAUGH TR (Note: Not to be used on legal documents)
Class	Farm
Tax District	00 00

View Map

Owner

Primary Owner
HENDRICKS CREEK FISHING CAMP INC
945 HENDRICKS CREEK RD
BURKESVILLE, KY 42717

Land

Sales

Columns

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
3/24/2017	$0	Affilated Organizations	168-706	HENDRICKS CREEK RESORT	BRENDEL CORP
3/24/2017	$0	Affilated Organizations	168-706	HENDRICKS CREEK FISHING CAMP INC	HENDRICKS CREEK RESORT

Information

Cumberland County, KY
600 Courthouse Square
P.O. Box 431
Burkesville, KY 42717

Property Valuation Administrator
Gina Lee-Watson

Announcements

How to use the Beacon site – view Demo Videos

Parcel Number 060-00-00-075.01
HENDRICKS CREEK RESORT
945 HENDRICKS CREEK RD
BURKESVILLE, KY 42717

qPublic.net™ Cumberland County, KY PVA

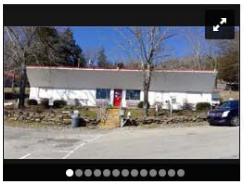
Elizabeth Williams | Search | search...

Layers | Map | Search | Results | Report | Sales Search | Sales List | Sales Results | Tax Estimator | Home | Report (IPS)

Parcel Summary

Parcel Number	060-00-00-075.01
Account Number	4738
Location Address	HENDRICKS CREEK RD 945
Description	945 HENDRICKS CREEK RD (Note: Not to be used on legal documents)
Class	Commercial
Tax District	00 00

View Map



Owner

Primary Owner
HENDRICKS CREEK RESORT
945 HENDRICKS CREEK RD
BURKESVILLE, KY 42717

Land

Improvement Information

Sales

Columns

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
1/1/2000	$1		-	HENDRICKS CREEK RESORT	LEASE FROM CORPH OF ENG

Information

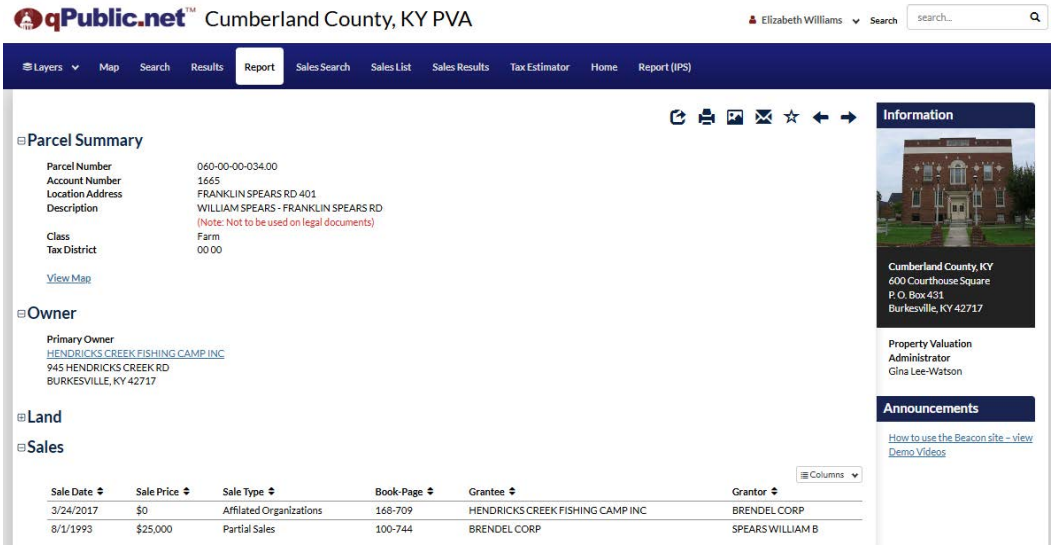
Cumberland County, KY
600 Courthouse Square
P.O. Box 431
Burkesville, KY 42717

Property Valuation Administrator
Gina Lee-Watson

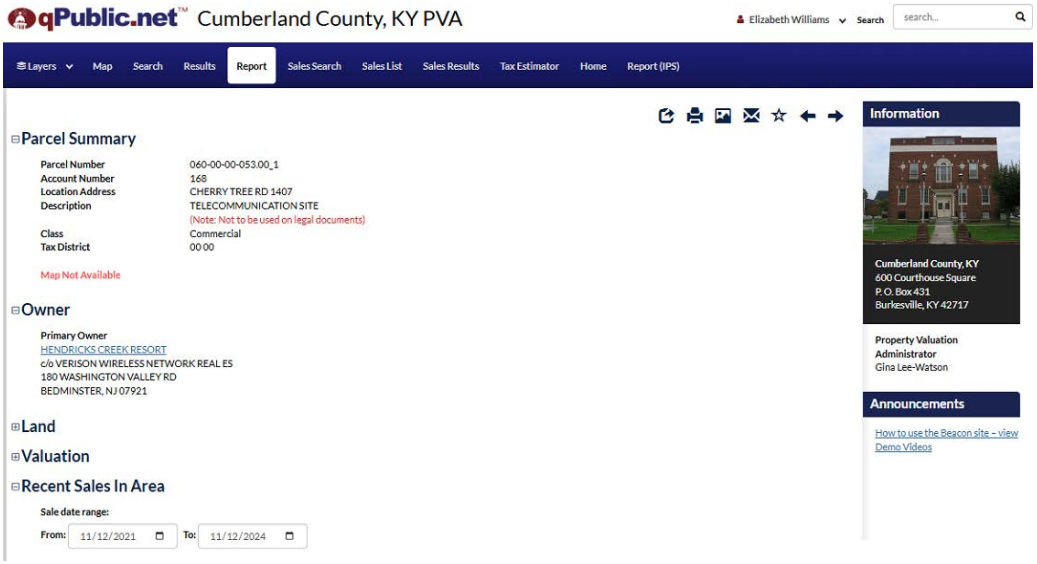
Announcements

How to use the Beacon site – view Demo Videos

Parcel Number 060-00-00-034.00
HENDRICKS CREEK FISHING CAMP INC
945 HENDRICKS CREEK RD
BURKESVILLE, KY 42717



Parcel Number 060-00-00-053.00_1
HENDRICKS CREEK RESORT
c/o VERIZON WIRELESS NETWORK REAL ES
180 WASHINGTON VALLEY RD
BEDMINSTER, NJ 07921



ClarkQuinn

www.clarkquinnlaw.com

Russell L. Brown
Attorney at Law
rbrown@clarkquinnlaw.com

320 N. Meridian St., Ste. 1100
Indianapolis, IN 46204
(317) 637-1321 main
(317) 687-2344 fax

November 13, 2024

Notice of Proposed Construction of
Wireless Communications Facility
Site Name: Hendricks Creek Relo

Cellco Partnership, d/b/a Verizon Wireless and TowerCo 2013, LLC propose to construct a wireless communications facility on a site located at 1407 Cherry Tree Road, Burkesville, KY 42717 (North Latitude: (36° 38' 15.796967", West Longitude -85° 21' 46.325680"). The proposed facility will include a 197-foot tall self-support tower, plus a 2-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area. It should be noted that this tower will replace the existing temporary tower located adjacent, on the same property.

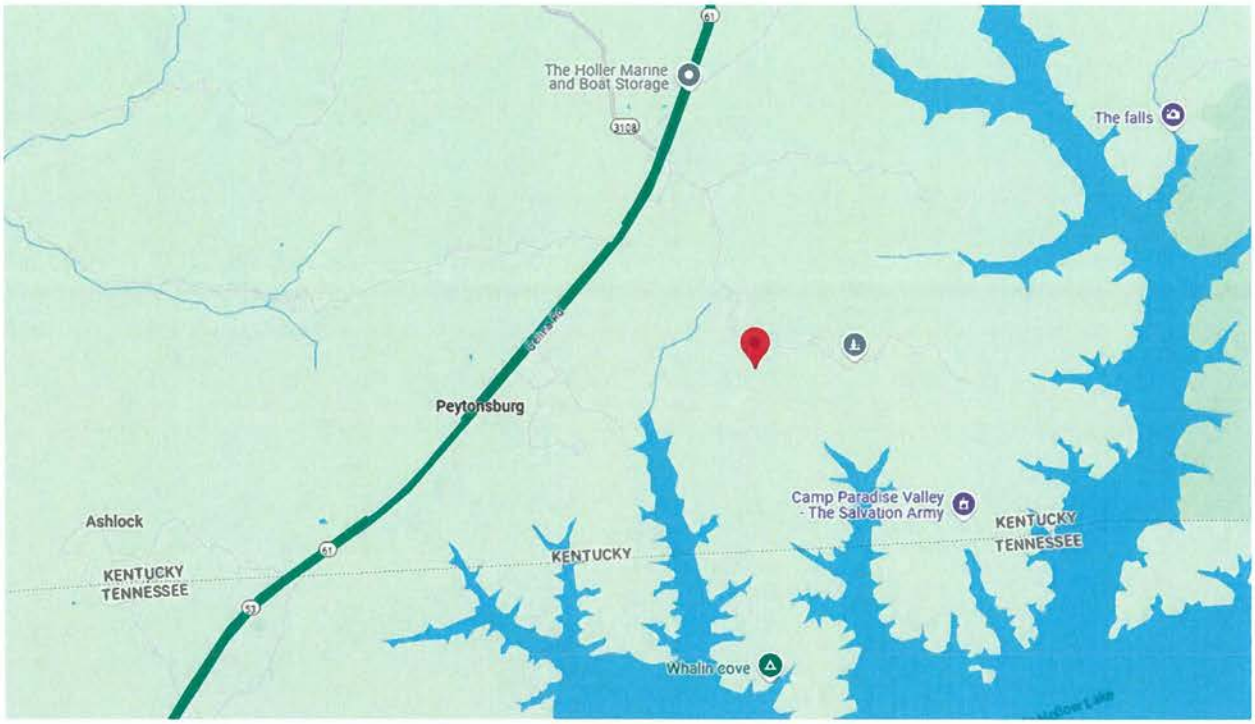
This notice is being sent to you because the County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous to the property on which the tower is to be constructed. You have a right to submit testimony to the Kentucky Public Service Commission ("PSC"), either in writing or to request intervention in the PSC's proceedings on the application. You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2024-00363 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. Applicant's radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact us at 317-637-1321 if you have any comments or questions about this proposal.

Sincerely,
Russell L. Brown

Attorney for Applicant
RLB/mnw
enclosure

Vicinity Map



Location Map

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ark, Quinn, Moses, Scott & Grahn, LLP

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HENDRICKS CREEK RESORT
945 HENDRICKS CREEK RD
BURKESVILLE, KY 42717

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BRENDEL FRANK JR
BRENDEL PATRICIA
945 HENDRICKS CREEK RD
BURKESVILLE, KY 42717

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RICE SCOTTIE L
RICE AMY L
11940 ARNETT ROAD
ROSSBURG, OHIO 45362

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

9589 0710 5270 1210 3314 00

SCOTT LAWRENCE EST
1496 CHERRY TREE RD
BURKESVILLE, KY 42717

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HENDRICKS CREEK FISHING
CAMP INC
945 HENDRICKS CREEK RD
BURKESVILLE, KY 42717

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BARRETT OIL AND GAS CO INC
3413 KY HWY 1351
ALBANY, KY 42602

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HENDRICKS CREEK RESORT
c/o VERIZON WIRELESS
NETWORK REAL ES
180 WASHINGTON VALLEY RD
BEDMINSTER, NJ 07921

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BRENDEL PATRICIA
945 HENDRICKS CREEK RD
BURKESVILLE, KY 42717

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BURKESVILLE, KY 42717

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2. Article Number *(Transfer from service label)*

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945 HENDRICKS CREEK RD
BURKESVILLE, KY 42717

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SCOTT LAWRENCE EST
1496 CHERRY TREE RD
BURKESVILLE, KY 42717

9590 9402 9085 4122 6610 97

2. Article Number *(Transfer from service label)*

9589 0710 5270 1210 3314 00

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A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Sherman Scott | C. Date of Delivery 11/15/24

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1. Article Addressed to:

RICE SCOTTIE L
RICE AMY L
11940 ARNETT ROAD
ROSSBURG, OHIO 45362

9590 9402 9085 4122 6611 03

2. Article Number *(Transfer from service label)*

9589 0710 5270 1210 3313 94

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A. Signature
X [signature] ☐ Agent ☐ Addressee

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HENDRICKS CREEK RESORT
c/o VERIZON WIRELESS
NETWORK REAL ES
180 WASHINGTON VALLEY RD
BEDMINSTER, NJ 07921

9590 9402 9085 4122 6610 66

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

ClarkQuinn

www.clarkquinnlaw.com

Russell L. Brown
Attorney at Law
rbrown@clarkquinnlaw.com

320 N. Meridian St., Ste. 1100
Indianapolis, IN 46204
(317) 637-1321 main
(317) 687-2344 fax

January 8, 2025

Notice of Proposed Construction of
Wireless Communications Facility
Site Name: Hendricks Creek Relo

Cellco Partnership, d/b/a Verizon Wireless and TowerCo 2013, LLC propose to construct a wireless communications facility on a site located at 1407 Cherry Tree Road, Burkesville, KY 42717 (North Latitude: (36° 38' 15.796967", West Longitude -85° 21' 46.325680"). The proposed facility will include a 197-foot tall self-support tower, plus a 2-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area. It should be noted that this tower will replace the existing temporary tower located adjacent, on the same property.

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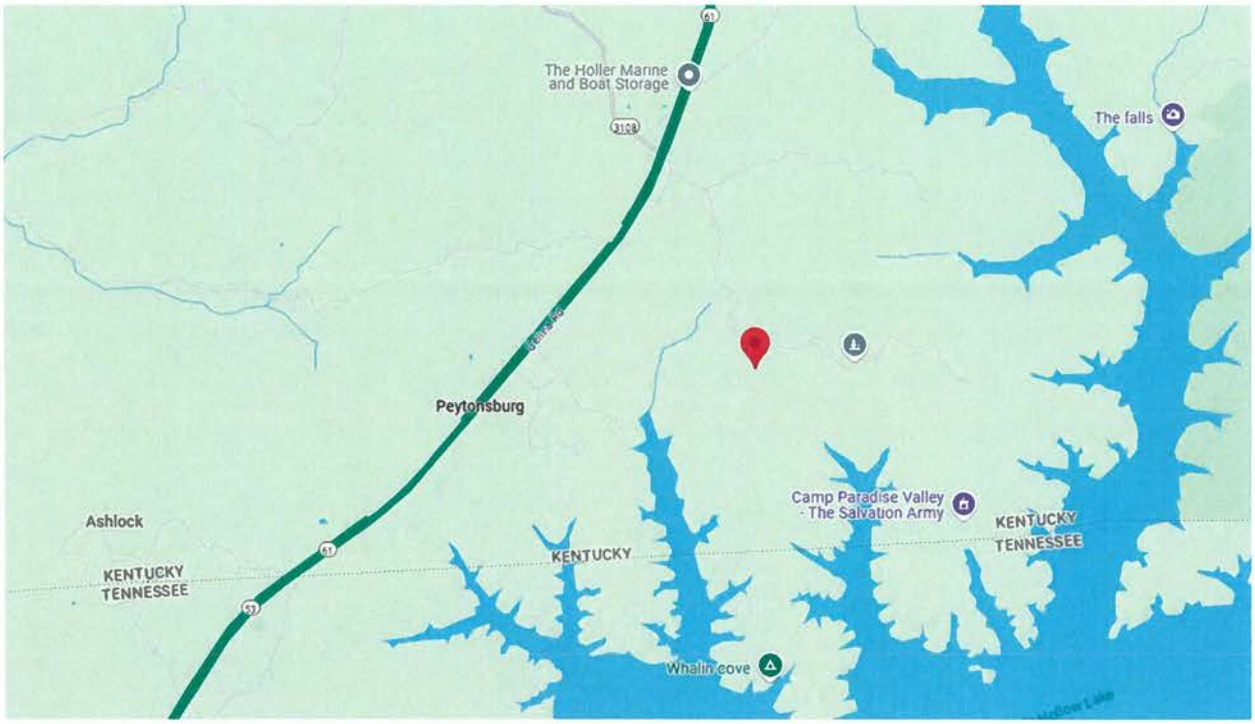
We have attached a map showing the site location for the proposed tower. Applicant's radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact us at 317-637-1321 if you have any comments or questions about this proposal.

Sincerely,
Russell L. Brown

Attorney for Applicant
RLB/mnw
enclosure

Vicinity Map



Location Map

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FAQs

ClarkQuinn

www.clarkquinnlaw.com

Russell L. Brown
Attorney at Law
rbrown@clarkquinnlaw.com

320 N. Meridian St., Ste. 1100
Indianapolis, IN 46204
(317) 637-1321 main
(317) 687-2344 fax

November 13, 2024

Via Certified Mail, Return Receipt Requested
9589 0710 5270 1210 3314 48

Hon. Luke King
Cumberland County Judge/Executive
PO Box 826
Burkesville, KY 42717

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2024-00363
Site Name: Hendricks Creek Relo

Dear Judge King:

Cellco Partnership, d/b/a Verizon Wireless and TowerCo 2013, LLC propose to construct a wireless communications facility on a site located at 1407 Cherry Tree Road, Burkesville, KY 42717 (North Latitude: (36° 38' 15.796967", West Longitude -85° 21' 46.325680"). The proposed facility will include a 197-foot tall self-support tower, plus a 2-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area. It should be noted that this tower will replace the existing temporary tower located adjacent, on the same property.

You have a right to submit comments to the PSC or to request intervention in the PSC's proceedings on the application. You may contact the PSC at: Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2024-00363 in any correspondence sent in connection with this matter.

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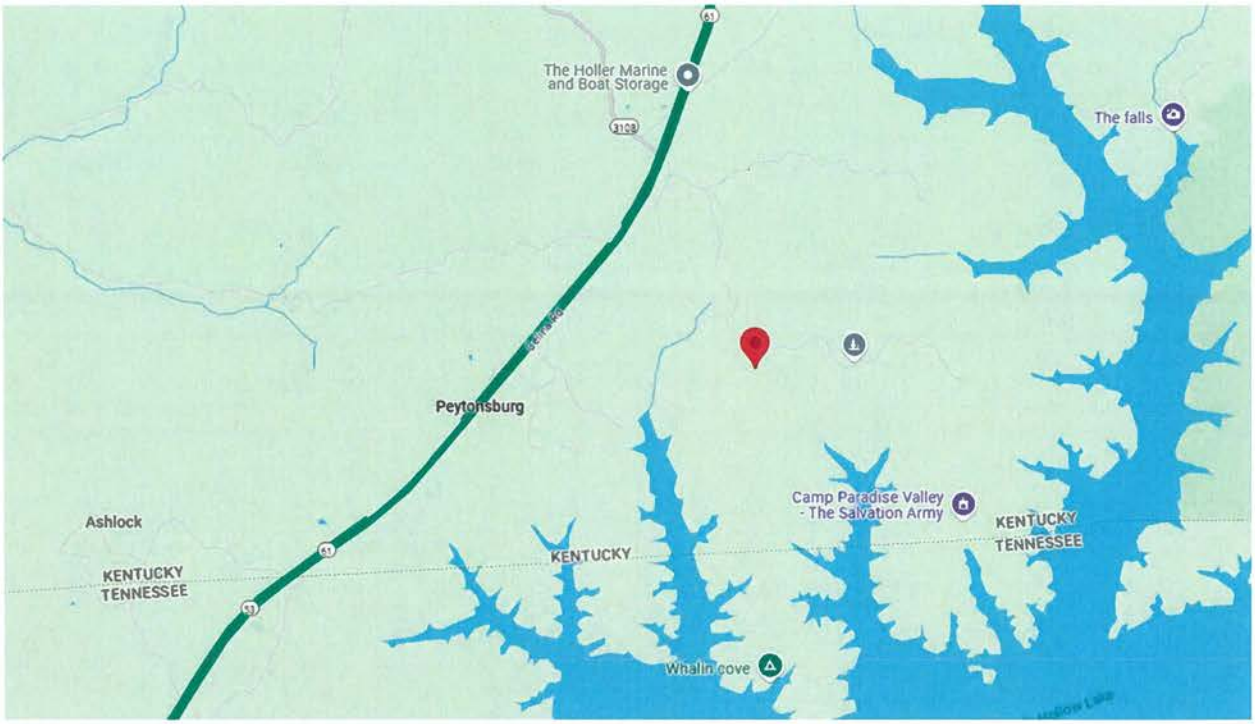
Sincerely,
Russell L. Brown

Attorney for Applicant

Vicinity Map



Location Map

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Hon. Luke King
Cumberland County Judge/Executive
PO Box 826
Burkesville, KY 42717

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1. Article Addressed to:

Hon. Luke King
Cumberland County Judge/Executive
PO Box 826
Burkesville, KY 42717

9590 9402 9085 4122 6610 59

2. Article Number *(Transfer from service label)*

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

Domestic Return Receipt

SITE NAME: Hendricks Creek Relo
NOTICE SIGNS

The signs are at least (2) feet by four (4) feet in size, of durable material, with the text printed in black letters at least one (1) inch in height against a white background, except for the word **"tower,"** which is at least four (4) inches in height.

Cellco Partnership, d/b/a Verizon Wireless and TowerCo 2013, LLC propose to construct a telecommunications **tower** on this site. If you have questions, please contact Clark, Quinn, Moses, Scott & Grahn, LLP, 320 N. Meridian Street, Indianapolis, IN 46204; 317-637-1321, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2024-00363 in your correspondence.

Cellco Partnership, d/b/a Verizon Wireless and TowerCo 2013, LLC propose to construct a telecommunications **tower** on this site. If you have questions, please contact Clark, Quinn, Moses, Scott & Grahn, LLP, 320 N. Meridian Street, Indianapolis, IN 46204; 317-637-1321, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2024-00363 in your correspondence.

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

Robert B. Scott
Charles R. Grahn
Frank D. Otte*
John "Bart" Herriman
William W. Gooden**
Michael P. Maxwell
Russell L. Brown**†
Jennifer F. Perry
Keith L. Beall
N. Davey Neal
Travis W. Cohron
Maggie L. Sadler
Kristin A. McIlwain
Olivia A. Hess

Land Use Consultant
Elizabeth Bentz Williams, AICP

*Also admitted in Montana
†Also admitted in Kentucky
**
Registered Civil Mediator

VIA EMAIL: ads@burkesville.com

Cumberland County News
PO Box 307
Burkesville, KY 42717

RE: Legal Notice Advertisement
Site Name: Hendricks Creek Relo

To Whom It May Concern,

Please publish the following legal notice advertisement in the next available edition of the Cumberland County News:

NOTICE

Cellco Partnership, d/b/a Verizon Wireless and TowerCo 2013, LLC propose to construct a wireless communications facility located at 1407 Cherry Tree Road, Burkesville, KY 42717 (North Latitude: (36° 38' 15.796967", West Longitude -85° 21' 46.325680"). The proposed facility will include a 197-foot tall self-support tower, plus a 2-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area. It should be noted that this tower will replace the existing temporary tower located adjacent, on the same property.

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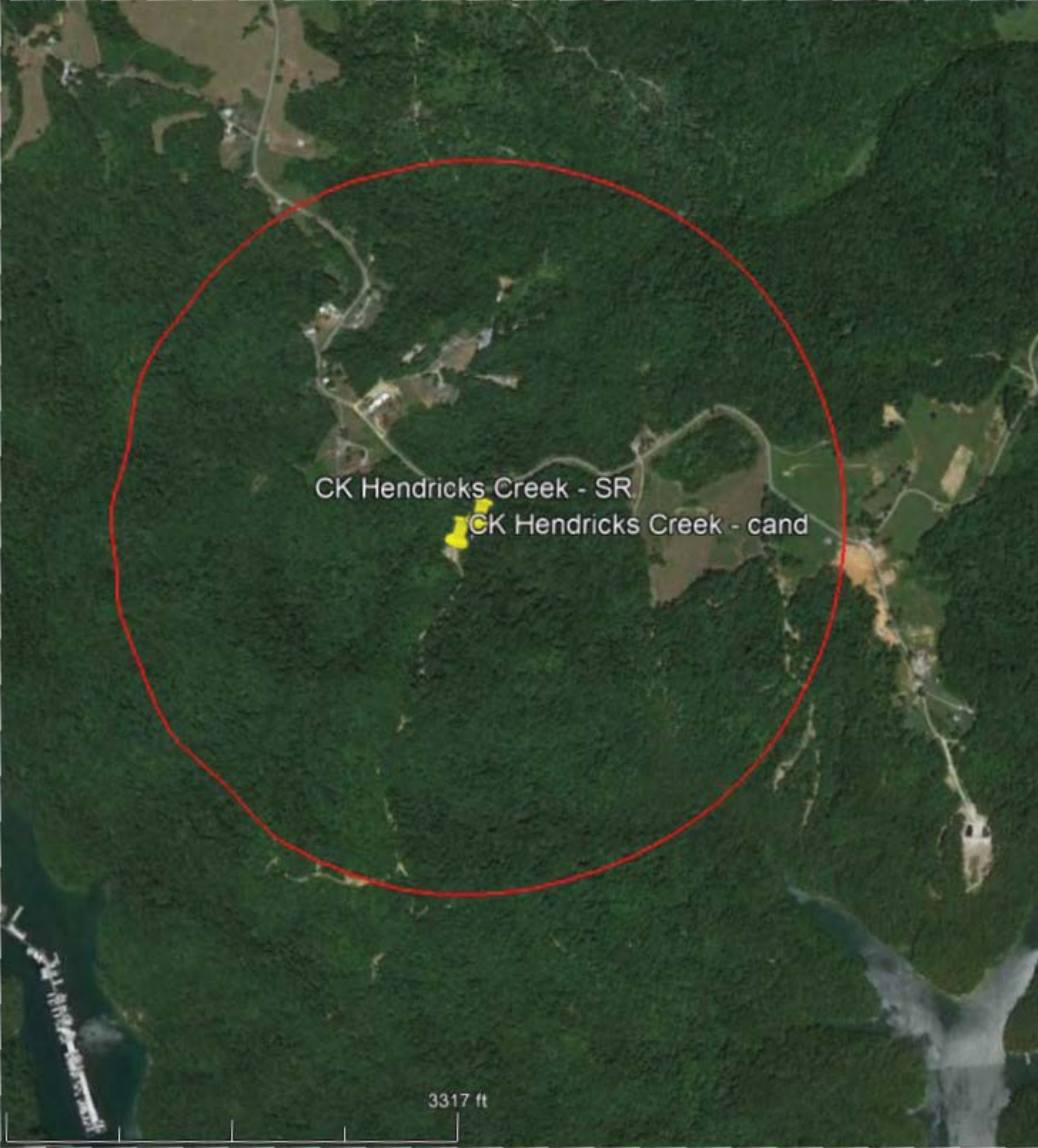
After this advertisement has been published, please forward a tearsheet copy, affidavit of publication, and invoice to Clark, Quinn, Moses, Scott & Grahn, LLC, 320 N. Meridian Street, Indianapolis, IN 46204 or by email to ebw@clarkquinnlaw.com. Please call me on my cell with any questions at 317-902-2187 if you have any questions. Thank you for your assistance.

Sincerely,

Elizabeth Bentz Williams, AICP


CK Hendricks Creek - SR
CK Hendricks Creek - cand
3317 ft

verizon

November 11, 2024

RE: Proposed Cellco Partnership d/b/a Verizon Wireless Communications
Facility Site Name: CK Hendricks Creek
Type of Tower: 197 Ft. Monopole
Location: 1407 Cherry Tree Road, Burkesville, KY 42717

As a radio frequency engineer for Verizon Wireless, I am providing this letter to state the need for a Verizon Wireless site called CK Hendricks Creek.

The CK Hendricks Creek site is proposed with the below objectives:

1. To improve service along KY Route 61.
2. To improve service to the residences and business in the aera, including the Hendricks Creek Resort.
3. To offload traffic from the nearby existing Verizon sites.

Currently the area is experiencing poor service along KY Route 61, and the aera near Hendricks Creek Resort. There is a high demand for wireless high-speed data and phone service in this area. This tower is needed to provide all Verizon customers in the area with the best experience on their wireless devices.

The proposed new tower would provide overall tower height of 197' with a Verizon Wireless Centerline of 192'. The new structure height was decided upon to best cover KY Route 61, the residence and businesses in the aera, and to offload traffic from the nearby existing Verizon sites. If we are limited to building a structure less than the proposed height, another tower would be needed in the vicinity in the near future. The new structure is proposed to be placed near the center of the problem area. The new tower design solves the stated objectives.

Verizon Wireless cares about the communities as well as the environment and prefers to collocate on existing structures when available. Verizon Wireless is currently collocated on some existing structures in the area. We prefer collocation due to reduced construction costs, faster deployment, and environment protection. However, Verizon Wireless was unable to find a suitable structure within the center of demand area to collocate the proposed site.

verizon

Verizon Wireless design engineers establish search area criteria in order to effectively meet coverage objectives as well as offload existing Verizon cell sites. When met, the criterion also reduces the need for a new site to cover the area in the immediate future. Each cellular site covers a limited area, depending on site configuration and the surrounding terrain. Cell sites are built in an interconnected network; which means each cell site must be located so that their respective coverage areas are contiguous. This provides uninterrupted communications throughout the coverage area.

Since collocation is generally the most cost-effective means for prompt deployment of new facilities, Verizon Wireless makes every effort to investigate the feasibility for using existing towers or other tall structures for collocation when designing a new site or system expansion. However, collocation on an existing tower or tall structure is not always feasible due to location of existing cell sites. Cell sites are placed in a way so they provide smooth hand off to each other and are placed at some distance from each other to eliminate too much overlap. Too much overlap may result in a waste of resources and raise a system capacity overload concern.

This cell site has been designed, and shall be constructed and operated in a manner that satisfies regulations and requirements of all applicable governmental agencies that have been charged with regulating tower specifications, operation, construction, and placement, including the FAA and FCC.

Sincerely,

Steven Belcher
Sr. RF Engineer
Verizon Wireless

JURAT WITH AFFIANT STATEMENT

State of Kentucky
County of Hardin } ss.

☐ See Attached Document (Notary to cross out lines 1–7 below)
☐ See Statement Below (Lines 1–7 to be completed only by document signer[s], *not* Notary)

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Signature of Document Signer No. 1

Signature of Document Signer No. 2 (if any)

Subscribed and sworn to (or affirmed) before me
this 14 day of November, 2024, by
Date *Month* *Year*

Steven Belcher
Name of Signer No. 1

Name of Signer No. 2 (if any)

LENA M. MOORE
Notary Public
Commonwealth of Kentucky
Commission Number KYNP34477
My Commission Expires Sep 16, 2025

Signature of Notary Public

KYNP34477 Exp. 9/16/25
Any Other Required Information
(Residence, Expiration Date, etc.)

Place Notary Seal/Stamp Above

OPTIONAL

This section is required for notarizations performed in Arizona but is optional in other states. Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

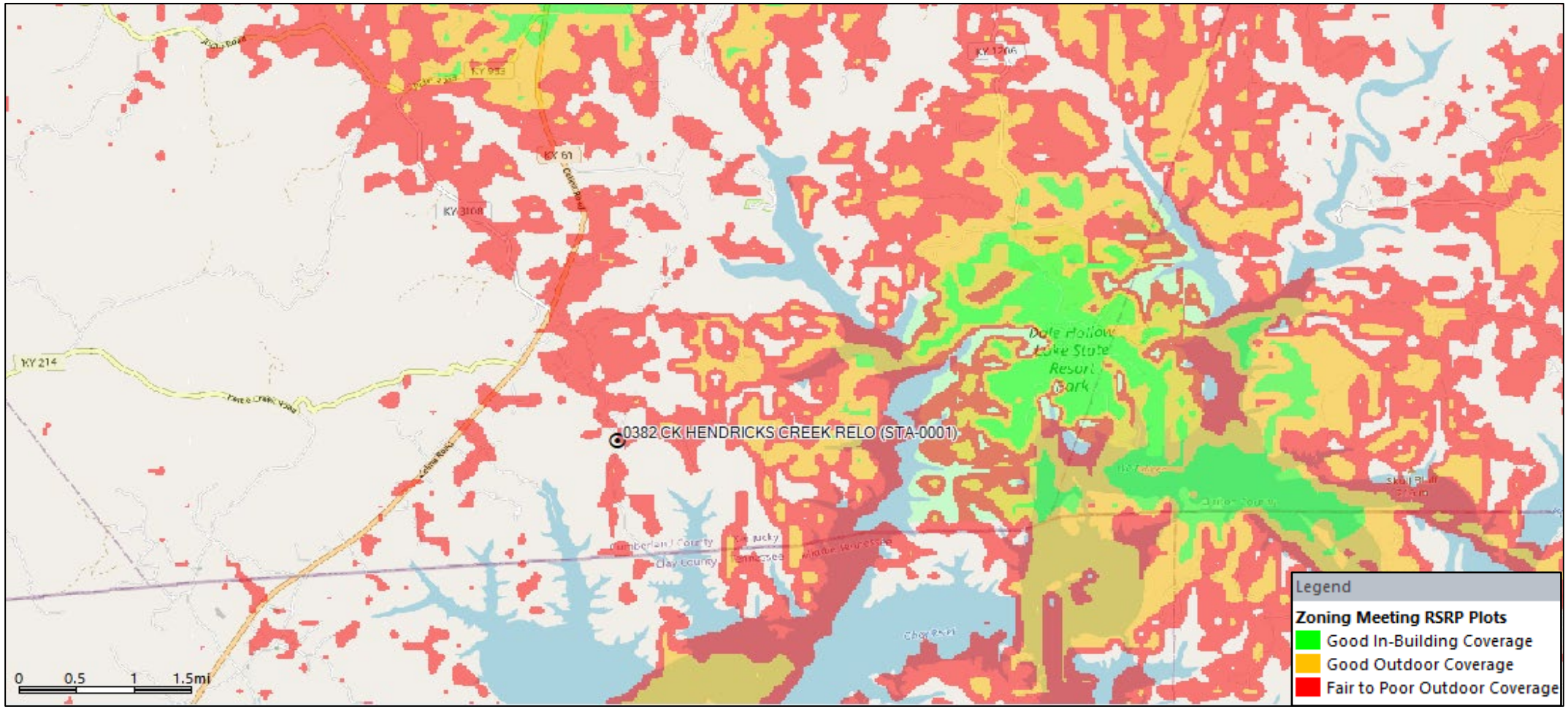
Title or Type of Document: Verizon Statement of Need

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

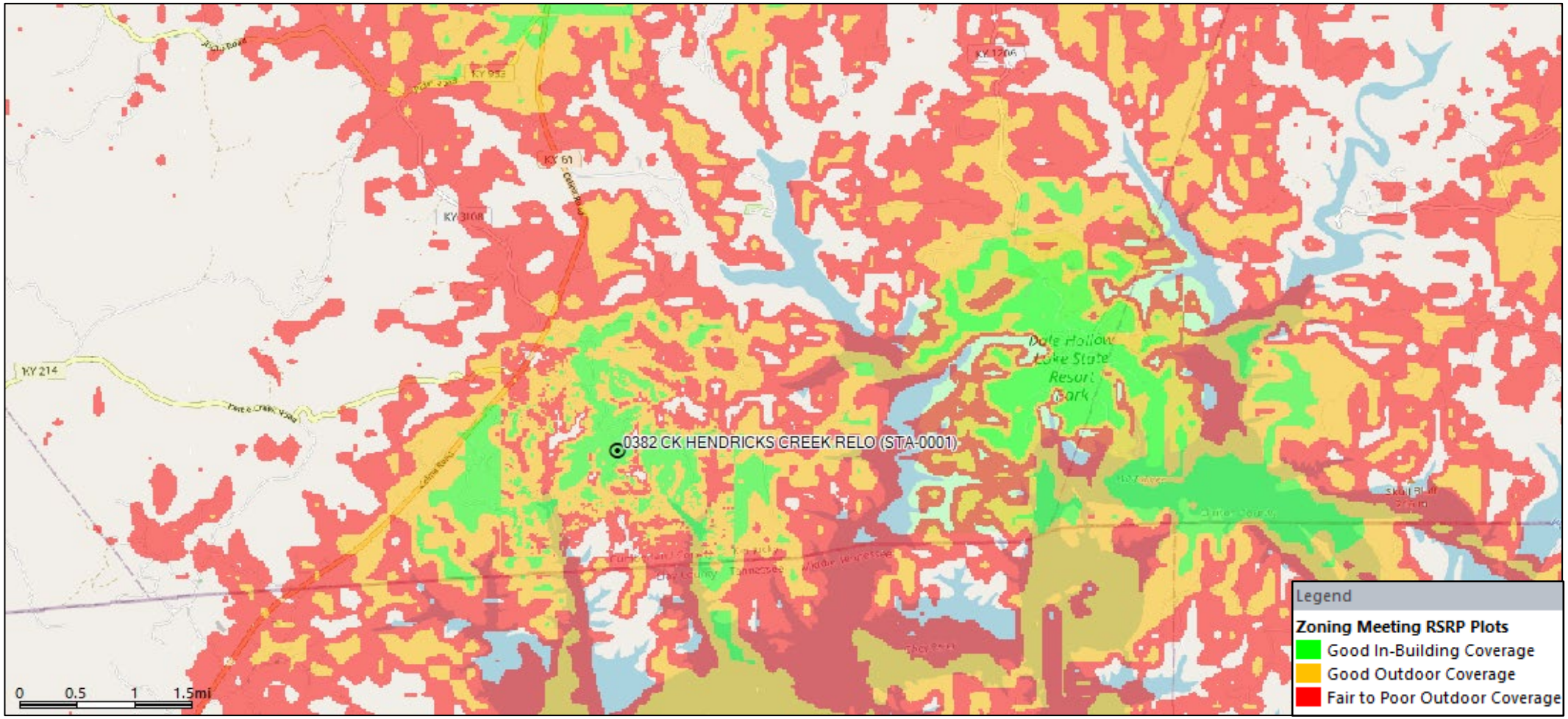
verizon

Current Coverage - Without proposed site CK Hendricks Creek



verizon

Coverage - With proposed site CK Hendricks Creek



November 14th, 2024

RE: Zoning Plots

Site Name: CK Hendricks Creek

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,

Steven Belcher
Sr RF Engineer
Verizon Wireless

Exhibit S
List and Identity and Qualifications of Professionals

Mark E. Patterson
Professional Engineer
Kentucky License 16300
Power of Design
11490 Bluegrass Parkway
Louisville, KY 40299

Professional Land Surveyor
Kentucky License 3136
Power of Design
11490 Bluegrass Parkway
Louisville, KY 40299

Darren L. Helms
Professional Land Surveyor
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Raphael Mohamed
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Kentucky License 24429
MasTec Network Solutions
507 Airport Blvd. Ste 111
Morrisville. NC 27560

Michael F. Plahovinsak,
Professional Engineer
Kentucky License 25466
Sole Proprietor - Independent Engineer
18301 S.R. 161, Plain City, OH 43064

Ronald J. Ebelhar
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Kentucky License 15186
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13050 Eastgate Park Way
Louisville, KY 40223

Caleb McVay
Construction Manager
TowerCo
5000 Valleystone Dr.
Cary, NC 27519

Steven Belcher
RF Engineer
Verizon Wireless
2421 Holloway Road
Louisville, KY 40299

STATE OF INDIANA)
) SS:
COUNTY OF MARION)

AFFIDAVIT OF CERTIFICATION
COMMONWEALTH OF KENTUCKY
PUBLIC SERVICE COMMISSION

I Russell L. Brown, attorney for Cellco Partnership, d/b/a Verizon Wireless and The Towers, 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 The Towers, LLC

STATE OF INDIANA,
COUNTY OF MARION, SS:
Subscribed and sworn to before me this 21st day of January, 2025.

Notary Public
Printed Name of Notary: Elizabeth Bentz Williams
My commission expires: November 18, 2028
My County of Residence: Marion
Commission #: 0639620