

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

In the Matter of:

THE APPLICATION OF)	
CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS)	
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC)	CASE NO. 2022-00193
CONVENIENCE AND NECESSITY TO CONSTRUCT)	
A WIRELESS COMMUNICATIONS FACILITY)	
IN THE COMMONWEALTH OF KENTUCKY)	
IN THE COUNTY OF ADAIR)	

SITE NAME: COLUMBIA CAPACITY

* * * * *

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

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

In support of this Application, Applicant respectfully provides and states the following information:

1. The complete name and address of the Applicant: Cellco Partnership, d/b/a Verizon Wireless, having a local address of 2421 Holloway Road, Louisville, KY 40299.

2. Applicant is a Delaware general partnership and a copy of the Amended Certificate of Assumed Name is on file with the Secretary of State of Commonwealth of Kentucky is included as part of **Exhibit A**.

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

4. The Applicant operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. A copy of the Applicant's FCC licenses 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 Applicant's services to an area currently not served or not adequately served by the Applicant by increasing coverage or capacity and thereby enhancing the public's access to innovative and competitive wireless communications services. A statement from Applicant's RF Design Engineer outlining said need is attached as **Exhibit Q** along with Propagation Maps attached as **Exhibit Qa**. 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, Applicant proposes to construct a WCF at 420 Ridge Crest Lane, Columbia, 42728 (37° 06' 11.58"North latitude, 85° 16' 30.67" West longitude), 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 David Bowman

pursuant to a Deed recorded at Deed Book 340, Page 240 in the office of the County Clerk. The proposed WCF will consist of a 190-foot tall tower, with an approximately 5-foot tall lightning arrestor attached at the top, for a total height of 195-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of the Applicant's radio electronics equipment and appurtenant equipment. The Applicant's equipment cabinet or shelter will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The WCF compound will be fenced and all access gate(s) will be secured. A description of the manner in which the proposed WCF will be constructed is attached as **Exhibit C** and **Exhibit D**.

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

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

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

10. Applicant has considered the likely effects of the installation of the proposed WCF on nearby land uses and values and has concluded that there is no more suitable location reasonably available from which adequate services can be provided, and that there are no reasonably available opportunities to co-locate Applicant's antennas on an existing structure. When suitable towers or structures exist, Applicant attempts to co-locate on existing structures such as communications

towers or other structures capable of supporting Applicant's facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site.

11. A copy of the Federal Aviation Administration (“FAA”) tool to demonstrate a Determination of No Hazard to Air Navigation is not required file due to the height and location of the tower as well as the proposed case #2021-ASO-48175-OE is attached as **Exhibit F**.

12. A copy of the Kentucky Airport Zoning Commission (“KAZC”) Application to construct the tower is attached as **Exhibit G**.

13. A geotechnical engineering report was performed at the Collier Engineering Co., Inc., 2949 Nolensville Pike, Nashville, TN 37411, dated March 30, 2022, and is attached as **Exhibit H**. The name and address of the geotechnical engineering firm and the professional engineer registered in Kentucky who prepared the report are included as part of **Exhibit R**.

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 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.

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

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 21001C0235A, Dated December 17, 2010.

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 (according to the records maintained by the County Property Valuation Administrator). 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 is illustrated in **Exhibit C**.

20. Applicant has notified 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 will be informed of his or her right to request intervention. A list of the notified property owners and a copy of the form of the notice to be sent by certified mail to each landowner are attached as **Exhibit K** and **Exhibit L**, respectively.

21. Applicant has 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 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**. 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**.

23. The general area where the proposed facility is to be located is undeveloped and removed a significant distance from any residential structures. The nearest residential structure is 1,318 feet from the proposed tower site.

24. The process that was used by the 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. 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 Applicant when searching for sites for its antennas that would provide the coverage deemed necessary by the 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**.

25. 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 Engineers' Statement of Need and Propagation Maps attached as **Exhibit Q and Qa.**

. The proposed tower will expand and improve voice and data service for Verizon Wireless customers.

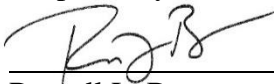
26. All Exhibits to this Application are hereby incorporated by reference as if fully set out as part of the Application.

27. 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
Attorney for Cellco Partnership d/b/a Verizon Wireless

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

Respectfully submitted,



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

LIST OF EXHIBITS

- A Applicant Entity
- B FCC License Documentation
- C Site Development Plan:
500' Vicinity Map Legal Descriptions
Flood Plain Certification Site Plan
Vertical Tower Profile
- D Tower and Foundation Design
- E Competing Utilities, Corporations, or Persons List
And Map of Like Facilities in Vicinity
- F FAA Information (Tool and Proposed Case)
- G KAZC Application
- H Geotechnical Report
- I Directions to WCF Site
- J Copy of Real Estate Agreement
- K Notification Listing
- L Copy of Property Owner Notification
- M Copy of County Judge/Executive notice
- N Copy of Posted Notices
- O Copy of Newspaper Legal Notice Advertisement
- P Copy of Radio Frequency Design Search Area
- Q Copy of RF Design Engineer State of Need
- Qa Propagation Maps
- R List of Qualified Professionals

A

COMMONWEALTH OF KENTUCKY
TREY GRAYSON
SECRETARY OF STATE



Secretary of State
Received and Filed
08/21/2008 12:06:00 PM
Fee Receipt: \$20.00

CERTIFICATE OF ASSUMED NAME

This certifies that the assumed name of
Verizon Wireless

(Please Underline the Assumed Name)

has been adopted by See Addendum

(Please Underline the Assumed Name)

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

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

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

One Verizon Way Basking Ridge NJ 07920

Street Address, P.O. Box

City

State

Zip Code

The certificate of assumed name is executed by

MYNEX PCS Inc.

Jane A. Schepker

Jane A. Schepker-Assistant Secretary

Print or type name and title
June 15, 2008

Date

Signature

Name of Officer or Agent

Date

Addendum

The full name of the Partnership is Cellco Partnership, a Delaware general partnership composed of the following partners:

<i>General Partners of Cellco Partnership</i>	<i>Address</i>
Bell Atlantic Mobile Systems LLC	One Verizon Way Basking Ridge, NJ 07920
GTE Wireless Incorporated	One Verizon Way Basking Ridge, NJ 07920
PCS Nucleus, L.P.	Denver Place South Tower 999-18 th Street, Suite 1750 Denver, CO 80202
JV PartnerCo, LLC	Denver Place South Tower 999-18 th Street, Suite 1750 Denver, CO 80202

REFERENCE COPY

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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign WQCS429	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date 04-23-2015	Effective Date 11-01-2016	Expiration Date 05-13-2025	Print Date
Market Number BTA263	Channel Block C	Sub-Market Designator 6	
Market Name Louisville, KY			
1st Build-out Date 05-13-2010	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQCS429

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

REFERENCE COPY

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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign KNKN814	File Number 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 09-01-2020	Effective Date 01-13-2021	Expiration Date 10-01-2030	Five Yr Build-Out Date	Print Date
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Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
1	37-06-37.0 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.

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 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)	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 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)	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 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)	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 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)	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.
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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.
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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 Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	29.900	29.900	29.900	29.900	29.900	29.900	29.900
Transmitting ERP (watts)	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 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)	52.200	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

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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 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)	113.600	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 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)	68.600	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

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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 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)	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 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)	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

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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

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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

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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

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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

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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 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)	68.900	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 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)	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 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)	68.500	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: Knifley 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 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)	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 Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	89.000	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 Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	101.800	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 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)	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 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)	84.700	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 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)	126.100	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 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)	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 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)	48.500	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 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)	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

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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign WPZV473	File Number 0009262040
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date 06-23-2015	Effective Date 01-13-2021	Expiration Date 06-23-2025	Print Date 03-10-2021
Market Number MTA026	Channel Block A	Sub-Market Designator 23	
Market Name Louisville-Lexington-Evansville			
1st Build-out Date 06-23-2000	2nd Build-out Date 06-23-2005	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WPZV473

File Number: 0009262040

Print Date: 03-10-2021

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

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

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

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

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGA718

File Number: 0009793647

Print Date: 02-23-2022

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WQGA940), File Number (0009774996), and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz))

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

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

Conditions:

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

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGA940

File Number: 0009774996

Print Date: 12-21-2021

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

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

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

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

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

Conditions:

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

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQJQ692

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign WQXW416	File Number
Radio Service AT - AWS-3 (1695-1710 MHz, 1755-1780 MHz, and 2155-2180 MHz)	

FCC Registration Number (FRN): 0003290673

Grant Date 07-05-2016	Effective Date 04-09-2021	Expiration Date 07-05-2028	Print Date
Market Number BEA047	Channel Block 1	Sub-Market Designator 0	
Market Name Lexington, KY-TN-VA-WV			
1st Build-out Date 07-05-2022	2nd Build-out Date 07-05-2028	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQXW416

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

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

FCC Registration Number (FRN): 0003290673

Grant Date 01-09-2018	Effective Date 01-13-2021	Expiration Date 01-09-2030	Print Date 03-11-2021
Market Number PEA096	Channel Block A	Sub-Market Designator 1	
Market Name Richmond, KY			
1st Build-out Date 01-09-2024	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRAM732

File Number: 0009262182

Print Date: 03-11-2021

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WRAY807), File Number, and Radio Service (UU - Upper Microwave Flexible Use Service).

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

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.

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRAY807

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WRAY808), File Number, and Radio Service (UU - Upper Microwave Flexible Use Service).

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

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.

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRAY808

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

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

FCC Registration Number (FRN): 0003290673

Grant Date 12-11-2019	Effective Date 01-13-2021	Expiration Date 12-11-2029	Print Date 03-11-2021
Market Number PEA096	Channel Block A	Sub-Market Designator 3	
Market Name Richmond, KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WREV443

File Number: 0009262182

Print Date: 03-11-2021

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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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 WREV444	File Number 0009262182
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

Grant Date 12-11-2019	Effective Date 01-13-2021	Expiration Date 12-11-2029	Print Date 03-11-2021
Market Number PEA096	Channel Block B	Sub-Market Designator 1	
Market Name Richmond, KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WREV444

File Number: 0009262182

Print Date: 03-11-2021

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: STRAIGHT PATH SPECTRUM, LLC

ATTN: REGULATORY
STRAIGHT PATH SPECTRUM, LLC
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign WRHE833	File Number
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0012576435

Grant Date 06-04-2020	Effective Date 06-04-2020	Expiration Date 06-04-2030	Print Date
Market Number PEA096	Channel Block M1	Sub-Market Designator 0	
Market Name Richmond, KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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Licensee Name: STRAIGHT PATH SPECTRUM, LLC

Call Sign: WRHE833

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

LICENSEE: STRAIGHT PATH SPECTRUM, LLC

ATTN: REGULATORY
STRAIGHT PATH SPECTRUM, LLC
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign WRHE834	File Number
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0012576435

Grant Date 06-04-2020	Effective Date 06-04-2020	Expiration Date 06-04-2030	Print Date
Market Number PEA096	Channel Block M10	Sub-Market Designator 0	
Market Name Richmond, KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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Licensee Name: STRAIGHT PATH SPECTRUM, LLC

Call Sign: WRHE834

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

LICENSEE: STRAIGHT PATH SPECTRUM, LLC

ATTN: REGULATORY
STRAIGHT PATH SPECTRUM, LLC
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WRHE835), File Number, and Radio Service (UU - Upper Microwave Flexible Use Service).

FCC Registration Number (FRN): 0012576435

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

Waivers/Conditions:

NONE

Conditions:

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

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Licensee Name: STRAIGHT PATH SPECTRUM, LLC

Call Sign: WRHE835

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: STRAIGHT PATH SPECTRUM, LLC

ATTN: REGULATORY
STRAIGHT PATH SPECTRUM, LLC
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign WRHE836	File Number
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0012576435

Grant Date 06-04-2020	Effective Date 06-04-2020	Expiration Date 06-04-2030	Print Date
Market Number PEA096	Channel Block M3	Sub-Market Designator 0	
Market Name Richmond, KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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Licensee Name: STRAIGHT PATH SPECTRUM, LLC

Call Sign: WRHE836

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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RADIO STATION AUTHORIZATION

LICENSEE: STRAIGHT PATH SPECTRUM, LLC

ATTN: REGULATORY
STRAIGHT PATH SPECTRUM, LLC
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign WRHE837	File Number
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0012576435

Grant Date 06-04-2020	Effective Date 06-04-2020	Expiration Date 06-04-2030	Print Date
Market Number PEA096	Channel Block M4	Sub-Market Designator 0	
Market Name Richmond, KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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: STRAIGHT PATH SPECTRUM, LLC

Call Sign: WRHE837

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: STRAIGHT PATH SPECTRUM, LLC

ATTN: REGULATORY
STRAIGHT PATH SPECTRUM, LLC
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign WRHE838	File Number
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0012576435

Grant Date 06-04-2020	Effective Date 06-04-2020	Expiration Date 06-04-2030	Print Date
Market Number PEA096	Channel Block M5	Sub-Market Designator 0	
Market Name Richmond, KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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Licensee Name: STRAIGHT PATH SPECTRUM, LLC

Call Sign: WRHE838

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: STRAIGHT PATH SPECTRUM, LLC

ATTN: REGULATORY
STRAIGHT PATH SPECTRUM, LLC
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign WRHE839	File Number
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0012576435

Grant Date 06-04-2020	Effective Date 06-04-2020	Expiration Date 06-04-2030	Print Date
Market Number PEA096	Channel Block M6	Sub-Market Designator 0	
Market Name Richmond, KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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Licensee Name: STRAIGHT PATH SPECTRUM, LLC

Call Sign: WRHE839

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: STRAIGHT PATH SPECTRUM, LLC

ATTN: REGULATORY
STRAIGHT PATH SPECTRUM, LLC
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign WRHE840	File Number
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0012576435

Grant Date 06-04-2020	Effective Date 06-04-2020	Expiration Date 06-04-2030	Print Date
Market Number PEA096	Channel Block M7	Sub-Market Designator 0	
Market Name Richmond, KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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Licensee Name: STRAIGHT PATH SPECTRUM, LLC

Call Sign: WRHE840

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: STRAIGHT PATH SPECTRUM, LLC

ATTN: REGULATORY
STRAIGHT PATH SPECTRUM, LLC
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign WRHE841	File Number
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0012576435

Grant Date 06-04-2020	Effective Date 06-04-2020	Expiration Date 06-04-2030	Print Date
Market Number PEA096	Channel Block M8	Sub-Market Designator 0	
Market Name Richmond, KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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Licensee Name: STRAIGHT PATH SPECTRUM, LLC

Call Sign: WRHE841

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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RADIO STATION AUTHORIZATION

LICENSEE: STRAIGHT PATH SPECTRUM, LLC

ATTN: REGULATORY
STRAIGHT PATH SPECTRUM, LLC
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign WRHE842	File Number
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0012576435

Grant Date 06-04-2020	Effective Date 06-04-2020	Expiration Date 06-04-2030	Print Date
Market Number PEA096	Channel Block M9	Sub-Market Designator 0	
Market Name Richmond, KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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Licensee Name: STRAIGHT PATH SPECTRUM, LLC

Call Sign: WRHE842

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WRNF549), File Number, and Radio Service (PM - 3.7 GHz Service).

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

Operation for this combination license grants both interim and final rights for this PEA and is not impacted by the relocation process pursuant to 47 CFR ? 27.1412(g).

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

Conditions:

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

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNF549

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign WRNF550	File Number
Radio Service PM - 3.7 GHz Service	

FCC Registration Number (FRN): 0003290673

Grant Date 07-23-2021	Effective Date 07-23-2021	Expiration Date 07-23-2036	Print Date
Market Number PEA096	Channel Block A2	Sub-Market Designator 0	
Market Name Richmond, KY			
1st Build-out Date 07-23-2029	2nd Build-out Date 07-23-2033	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

Operation for this combination license grants both interim and final rights for this PEA and is not impacted by the relocation process pursuant to 47 CFR ? 27.1412(g).

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

Conditions:

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

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNF550

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WRNF551), File Number, and Radio Service (PM - 3.7 GHz Service).

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

Operation for this combination license grants both interim and final rights for this PEA and is not impacted by the relocation process pursuant to 47 CFR ? 27.1412(g).

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

Conditions:

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

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNF551

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with 2 columns: Call Sign (WRNF552), File Number, and Radio Service (PM - 3.7 GHz Service)

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

Operation for this combination license grants both interim and final rights for this PEA and is not impacted by the relocation process pursuant to 47 CFR ? 27.1412(g).

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

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNF552

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WRNF553), File Number, and Radio Service (PM - 3.7 GHz Service).

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

Operation for this combination license grants both interim and final rights for this PEA and is not impacted by the relocation process pursuant to 47 CFR ? 27.1412(g).

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

Conditions:

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

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNF553

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WRNF554), File Number, and Radio Service (PM - 3.7 GHz Service).

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

This interim license, in conjunction with one or more final licenses, collectively 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). Assignment application(s) and transfers of control filed for this interim license must be done in conjunction with any linked final license.

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.

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNF554

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WRNF555), File Number, and Radio Service (PM - 3.7 GHz Service)

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

This interim license, in conjunction with one or more final licenses, collectively 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). Assignment application(s) and transfers of control filed for this interim license must be done in conjunction with any linked final license.

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.

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNF555

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
---------------	--------------------	--------------------------	------------------------------	---------------

Reference Copy

REFERENCE COPY

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



**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign WRNF556	File Number
Radio Service PM - 3.7 GHz Service	

FCC Registration Number (FRN): 0003290673

Grant Date 07-23-2021	Effective Date 07-23-2021	Expiration Date 07-23-2036	Print Date
Market Number PEA096	Channel Block B3	Sub-Market Designator 0	
Market Name Richmond, KY			
1st Build-out Date 07-23-2029	2nd Build-out Date 07-23-2033	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This interim license, in conjunction with one or more final licenses, collectively 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). Assignment application(s) and transfers of control filed for this interim license must be done in conjunction with any linked final license.

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.

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNF556

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
---------------	--------------------	--------------------------	------------------------------	---------------

Reference Copy

REFERENCE COPY

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



Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with 2 columns: Call Sign (WRNF557), File Number, and Radio Service (PM - 3.7 GHz Service).

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

This interim license, in conjunction with one or more final licenses, collectively 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). Assignment application(s) and transfers of control filed for this interim license must be done in conjunction with any linked final license.

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

Conditions:

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

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNF557

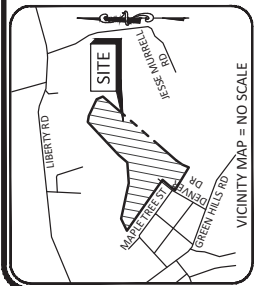
File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
---------------	--------------------	--------------------------	------------------------------	---------------

Reference Copy

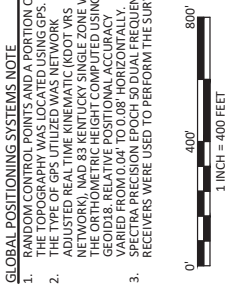


FAA COORDINATE POINT
 MAD 83
 LATITUDE: 37°06'11.582606"
 LONGITUDE: -85°16'30.673540"
 ELEVATION: 716.74 AMSL
 UTM ZONE: 18Q UTM EASTING: 5,059,771.879

TRUE NORTH
 0° 17' 29"
 BASED ON KENTUCKY STATE PLANE SINGLE ZONE AND DETERMINED BY GPS OBSERVATIONS COMPLETED ON SEPTEMBER 1, 2021.

GENERAL NOTES:
 1. ALL PUBLIC RECORDS HAS BEEN COMPLETED BY POD GROUP TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE SUBJECT PROPERTY.
 2. THIS DRAWING IS FOR THE PROPOSED LEASE AREA AND ONLY A PARTIAL BOUNDARY SURVEY OF THE PARENT PARCEL HAS BEEN PERFORMED.
 3. A PORTION OF THIS SURVEY WAS CONDUCTED BY METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. PRECISION IS 1:52,166 AND HAS NOT BEEN ADJUSTED.
 4. THIS PROPERTY IS SUBJECT TO ANY RECORDED EASEMENTS AND/OR RIGHTS OF WAY SHOWN HERON ON NO. 1.
 5. THIS PLAT IS NOT INTENDED FOR LAND TRANSFER.
 6. THE PARENT PARCEL SHOWN HERON IS PARTIALLY UNDEVELOPED AND THE PROPOSED LEASE AREA AND THE PROPOSED ACCESS & UTILITY EASEMENT SHOWN HERON ARE NOT LOCATED IN A 100-YEAR FLOOD PLAIN (ZONE X) PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 21001C0235A, DATED DECEMBER 17, 2010.

GLOBAL POSITIONING SYSTEMS NOTE
 1. RANDOM CONTROL POINTS AND A PORTION OF THE LOCAL CONTROL POINTS WERE USED TO DETERMINE THE TYPE GPS UTILIZATION METHOD EMPLOYED.
 2. ADJUSTED REAL TIME KINEMATIC (KOT) WRS NETWORK, MAD 83 KENTUCKY SINGLE ZONE WITH THE ORTHOMETRIC HEIGHT COMPUTED USING GEODIS: RELATIVE POSITIONAL ACCURACY (RPA) IS 1:50,000. HORIZONTAL PRECISION IS 1:50,000. FREQUENCY RECEIVERS WERE USED TO PERFORM THE SURVEY.



- LEGEND**
- GUY ANCHOR
 - ⊙ UTILITY POLE
 - ⊙ P.O.B. POINT OF BEGINNING
 - ⊙ P.O.C. POINT OF COMMENCEMENT
 - ⊙ P.O.R. POINT OF REFERENCE
 - RIGHT OF WAY
 - EX. OVERHEAD ELECTRIC
 - EX. OVERHEAD ELECTRIC & TELEPHONE
 - FOUND MONUMENT AS NOTED
 - SET 1/2" REBAR 18" LONG
 - CAPPED "PATTERSON KY PLS 3136"
 - PROPERTY LINE
 - ADJACENT PROPERTY LINE
 - EX. FENCE LINE

POD
 POWER OF DESIGN
 11490 HILLCRESTS PARKWAY
 COLUMBIA, KY 40203
 502-437-5252

PREPARED FOR:
CELCO
 PARTNERSHIP
 D/B/A

Verizon

SITE SURVEY

REV	DATE	DESCRIPTION
A	9.16.21	PRELIM ISSUE
0	10.27.21	ISSUED AS FINAL

SITE INFORMATION:
CK COLUMBIA CAPACITY
 420 RIDGE CREST LANE
 COLUMBIA, KY 42728
 ADAIR COUNTY
 TAX PARCEL NUMBER:
 063-00-00-055.00

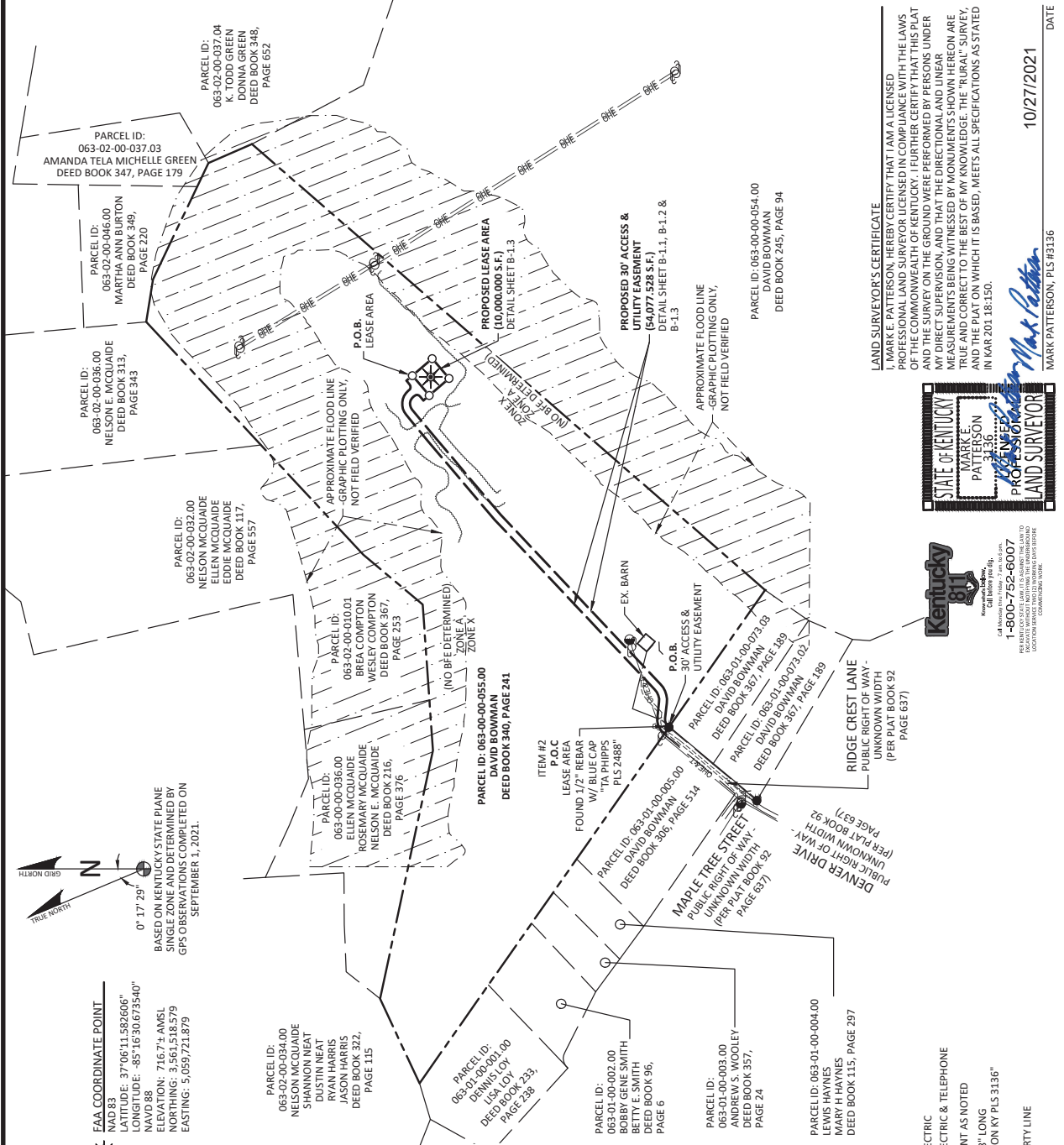
PROPERTY OWNER:
 DAVID BOWMAN
 420 RIDGE CREST LANE
 COLUMBIA, KY 42728

SOURCE OF TITLE:
 DEED BOOK 340, PAGE 241

POD NUMBER: 21-102853
 DRAWN BY: AYW
 CHECKED BY: MJD
 SURVEY DATE: 9.1.21
 PLAT DATE: 9.16.21

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

SHEET NUMBER: (5 pages)
B-1

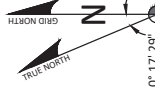


Kentucky
 1-800-752-6007
 1000 Commonwealth Blvd., Frankfort, KY 40601
 EXAMINER: I HAVE REVIEWED THIS PLAT AND DETERMINE THAT IT COMES WITHIN THE REQUIREMENTS OF THE KENTUCKY LAND SURVEYING ACT.

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 SUPERVISION AND THAT THE MEASUREMENTS 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, PLS #3136
 10/27/2021

DATE



BASED ON KENTUCKY STATE PLANE
 ANGLE OBSERVATIONS COMPLETED ON
 SEPTEMBER 1, 2021.

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	23.56'	15.00'	S64°38'33"E	21.21'
C2	23.56'	15.00'	N05°21'27"E	21.21'

LINE BEARING	DISTANCE
N71°37'43"E	4.18
S39°38'33"E	4.18
N50°21'27"E	19.51
S40°34'15"E	30.00
N40°34'15"W	30.00
S39°38'33"E	20.88
N39°38'33"W	33.80

GENERAL NOTES:

1. ALL PUBLIC RECORDS HAS BEEN COMPLETED BY POD GROUP TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE SUBJECT PROPERTY.

2. THIS DRAWING IS FOR THE PROPOSED LEASE AREA AND THE PROPOSED UTILITY EASEMENT, AND ONLY A PARTIAL BOUNDARY SURVEY OF THE PARENT PARCEL HAS BEEN PERFORMED.

3. A PORTION OF THIS SURVEY WAS CONDUCTED BY METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. THE PRECISION OF THIS SURVEY IS A PRECISION OF 1:52,166 AND HAS NOT BEEN ADJUSTED.

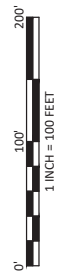
4. THIS PROPERTY IS SUBJECT TO ANY RECORDED EASEMENTS AND/OR RIGHTS OF WAY SHOWN HERON ON NO.1.

5. THIS PLAT IS NOT INTENDED FOR LAND TRANSFER.

6. THE PARENT PARCEL SHOWN HERON IS PARTIALLY UNRECORDED AND THE PROPOSED LEASE AREA AND THE PROPOSED ACCESS & UTILITY EASEMENT SHOWN HERON ARE NOT LOCATED IN A 100-YEAR FLOOD PLAIN (ZONE X) PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 21001C0235A, DATED DECEMBER 17, 2010.

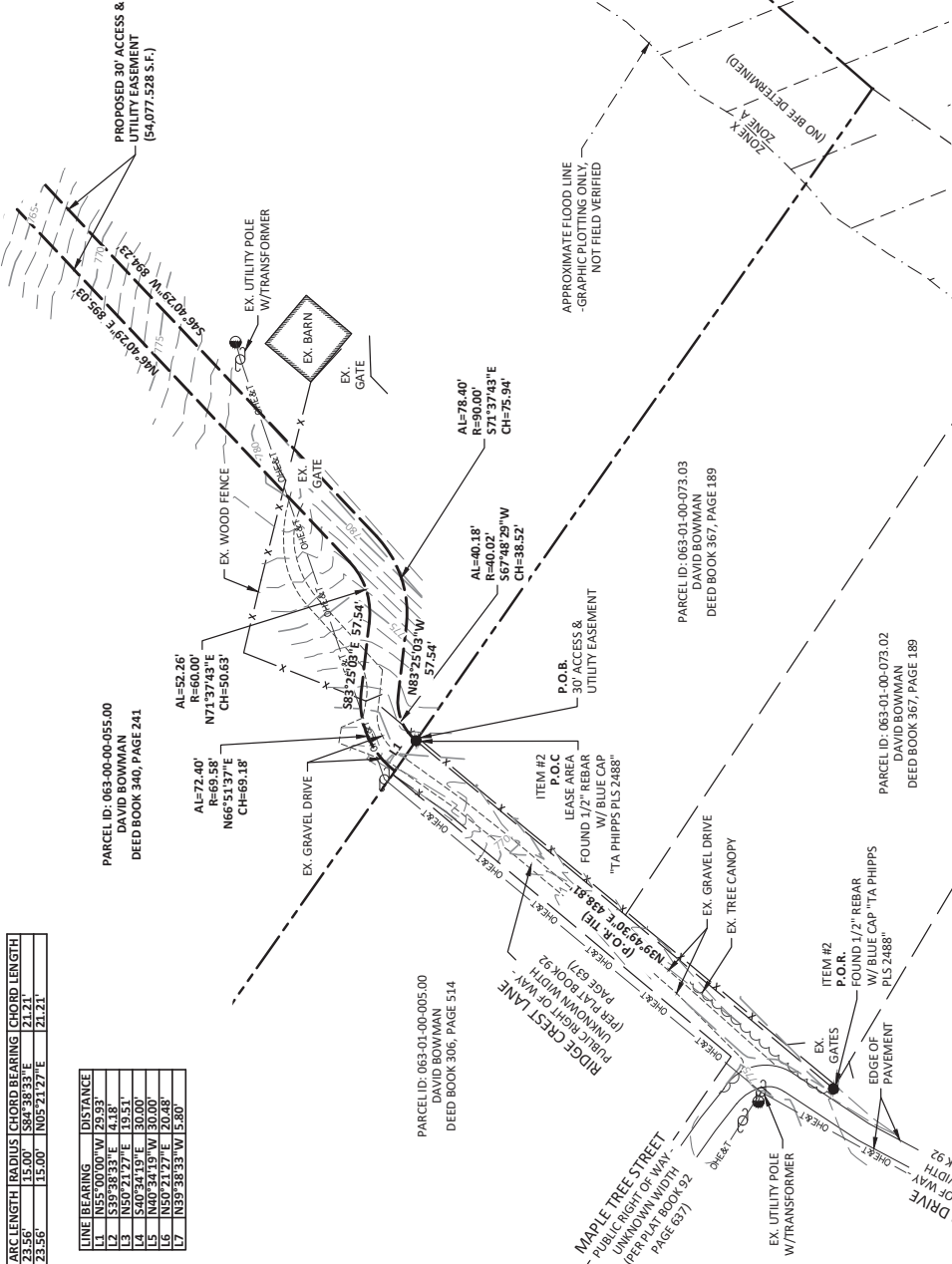
GLOBAL POSITIONING SYSTEMS NOTE

1. RANDOM CONTROL POINTS AND A PORTION OF THE LOCAL CONTROL POINTS WERE USED TO ADJUST THE GPS UTILIZING KENTUCKY (KOOT) WRS ADJUSTED REAL TIME KENTUCKY SINGLE ZONE WITH THE ORTHOMETRIC HEIGHT COMPUTED USING GEODIS: RELATIVE POSITIONAL ACCURACY SPECIFICATION FOR REAL TIME KENTUCKY SINGLE ZONE. RECEIVER PRECISION FOR 50-DWDM FREQUENCY RECEIVERS WERE USED TO PERFORM THE SURVEY.



LEGEND

- GUY ANCHOR
- UTILITY POLE
- P.O.B. POINT OF BEGINNING
- P.O.C. POINT OF COMMENCEMENT
- P.O.R. POINT OF REFERENCE
- RIGHT OF WAY
- EX OVERHEAD ELECTRIC
- EX OVERHEAD ELECTRIC & TELEPHONE
- FOUND MONUMENT AS NOTED
- SET 1/2" REBAR 18" LONG
- CAPPED "PATTERSON KY PLS 3136"
- PROPERTY LINE
- ADJACENT PROPERTY LINE
- EX FENCE LINE



PARCEL ID: 063-00-00-055.00
 DAVID BOWMAN
 DEED BOOK 340, PAGE 241

PARCEL ID: 063-01-00-005.00
 DAVID BOWMAN
 DEED BOOK 367, PAGE 514

PARCEL ID: 063-01-00-073.03
 DAVID BOWMAN
 DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.02
 DAVID BOWMAN
 DEED BOOK 307, PAGE 189



REV	DATE	DESCRIPTION
A	9.16.21	PRELIM ISSUE
0	10.27.21	ISSUED AS FINAL

SITE INFORMATION:
 CK COLUMBIA
 CAPACITY
 420 RIDGE CREST LANE
 COLUMBIA, KY 42728
 ADAIR COUNTY
 TAX PARCEL NUMBER:
 063-00-00-055.00
 PROPERTY OWNER:
 DAVID BOWMAN
 420 RIDGECREST LANE
 COLUMBIA, KY 42728
 SOURCE OF TITLE:
 DEED BOOK 340, PAGE 241

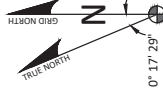
POD NUMBER: 21-102853
 DRAWN BY: A/W
 CHECKED BY: M/P
 SURVEY DATE: 9.1.21
 PLAT DATE: 9.16.21

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

SHEET NUMBER: (5 pages)
B-1.1

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 CLOSE PERSONAL SUPERVISION AND THAT ALL MEASUREMENTS AND CALCULATIONS BEING WITNESSED BY ME 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.

DATE: 10/27/2021
 MARK PATTERSON, PLS #3136



FAA COORDINATE POINT
 MAD 80: 37°06'11.589666"
 LONGITUDE: -85°16'30.673540"
 NAVD 88
 ELEVATION: 717.5 AMSL
 NORTHING: 3,561,518.579
 EASTING: 5,059,721.879

BASED ON KENTUCKY STATE PLANE
 PROJECTIONS COMPLETED BY
 GPS OBSERVATIONS COMPLETED ON
 SEPTEMBER 1, 2021.

GENERAL NOTES
 1. ALL 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 FOR THE PROPOSED LEASE AREA
 AND UTILITY EASEMENT, AND ONLY A PARTIAL BOUNDARY SURVEY OF THE
 PARENT PARCEL HAS BEEN PERFORMED.

A PORTION OF THIS SURVEY WAS CONDUCTED BY
 METHOD OF RANDOM TRAVEL WITH SIDE SHOTS.
 THE PRECISION OF THIS SURVEY IS CLASSIFIED AS A
 PRECISION OF 1:52,166 AND HAS NOT BEEN
 ADJUSTED.

THIS PROPERTY IS SUBJECT TO ANY RECORDED
 EASEMENTS AND/OR RIGHTS OF WAY SHOWN HERON
 ON NO.

THIS PLAT IS NOT INTENDED FOR LAND TRANSFER.

THE PARENT PARCEL SHOWN HERON IS PARTIALLY
 SURVEYED AND THE PROPOSED LEASE AREA AND THE PROPOSED
 ACCESS & UTILITY EASEMENT SHOWN HERON ARE
 NOT LOCATED IN A 100-YEAR FLOOD PLAIN (ZONE X)
 PER FLOOD HAZARD BOUNDARY MAP,
 COMMUNITY-PANEL NUMBER 21001C0235A, DATED
 DECEMBER 17, 2010.

GLOBAL POSITIONING SYSTEMS NOTE

1. RANDOM CONTROL POINTS AND A PORTION OF
 THE ORTHOMETRIC HEIGHT COMPUTED USING
 THE TYPE GPS UTILIZING NETWORKING GPS.
 2. THE TYPE GPS UTILIZING NETWORKING GPS.
 ADJUSTED REAL TIME KINEMATIC (KOOT VRS
 NETWORK), MAD 83 KENTUCKY SINGLE ZONE WITH
 THE ORTHOMETRIC HEIGHT COMPUTED USING
 GEODIS. RELATIVE POSITIONAL ACCURACY
 SPECIFIED AS 10 CM HORIZONTAL AND 15 CM
 VERTICAL. PRECISION FOR 50-DWAVE FREQUENCY
 RECEIVERS WERE USED TO PERFORM THE SURVEY.



LEGEND

- GUY ANCHOR
- UTILITY POLE
- P.O.B. POINT OF BEGINNING
- P.O.C. POINT OF COMMENCEMENT
- P.O.R. POINT OF REFERENCE
- ROW RIGHT OF WAY
- OHE#1 ONE OHE#2 TWO OHE#3 THREE OHE#4 FOUR OHE#5 FIVE OHE#6 SIX OHE#7 SEVEN OHE#8 EIGHT OHE#9 NINE OHE#10 TEN OHE#11 ELEVEN OHE#12 TWELVE OHE#13 THIRTEEN OHE#14 FOURTEEN OHE#15 FIFTEEN OHE#16 SIXTEEN OHE#17 SEVENTEEN OHE#18 EIGHTEEN OHE#19 NINETEEN OHE#20 TWENTY
- EX. OVERHEAD ELECTRIC
- EX. OVERHEAD ELECTRIC & TELEPHONE
- FOUND MONUMENT AS NOTED
- SET 1/2" REBAR 18" LONG
- CAPPED "PATTERSON KY PLS 3136"
- PROPERTY LINE
- ADJACENT PROPERTY LINE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	123.56	15.00	N05°21'27" E	21.21
C2	123.56	15.00	S05°21'27" E	21.21

LINE	BEARING	DISTANCE
L1	N5°00'00" W	729.93'
L2	S59°38'33" E	4.18'
L3	N89°59'59" E	1.00'
L4	N40°34'19" W	30.00'
L5	N40°34'19" W	30.00'
L6	N50°21'27" E	20.48'
L7	N59°38'33" W	15.80'



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 SUPERVISION AND THAT THE MEASUREMENTS 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.

DATE: 10/27/2021
 MARK PATTERSON, PLS #3136

POD
POWER OF DESIGN
11490 HILLEGASS PARKWAY
COLUMBIA, KY 40203
502-437-5252

Verizon
D/B/A
CELCO
PARTNERSHIP

SITE SURVEY

REV.	DATE	DESCRIPTION
A	9.16.21	PRELIM ISSUE
0	10.27.21	ISSUED AS FINAL

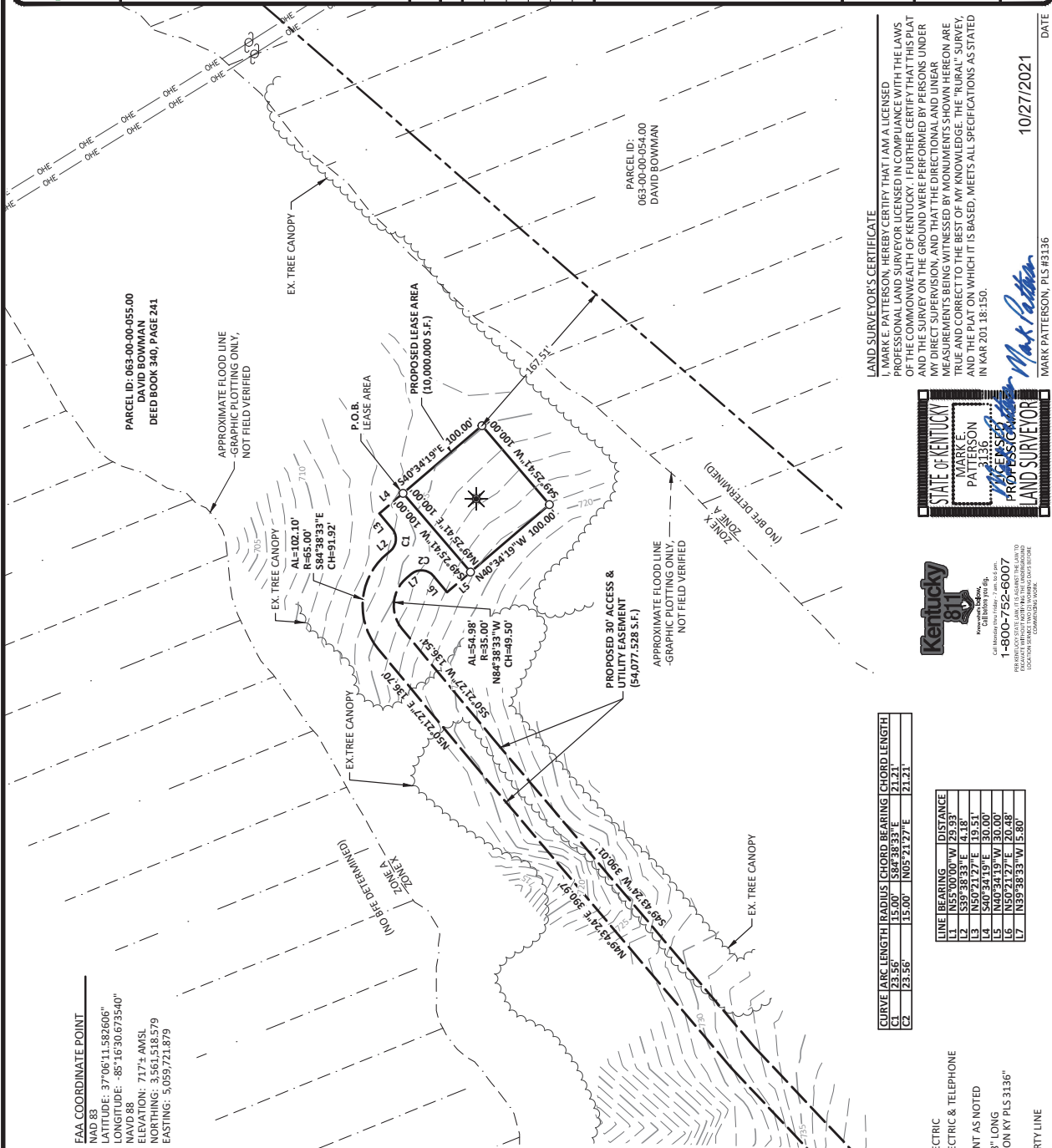
SITE INFORMATION:
CK COLUMBIA
CAPACITY
 420 RIDGE CREST LANE
 COLUMBIA, KY 42728
 ADAIR COUNTY
 TAX PARCEL NUMBER:
 063-00-00-055.00

PROPERTY OWNER:
 DAVID BOWMAN
 420 RIDGE CREST LANE
 COLUMBIA, KY 42728
 SOURCE OF TITLE:
 DEED BOOK 340, PAGE 241

POD NUMBER: 21-102853
 DRAWN BY: A/W
 CHECKED BY: M/P
 SURVEY DATE: 9.1.21
 PLAT DATE: 9.16.21

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

SHEET NUMBER: (5 pages)
B-1.3



LEGAL DESCRIPTIONS

PARENT PARCEL, LEGAL DESCRIPTION, DEED BOOK 340, PAGE 241. (NOT FIELD SURVEYED) PROPERTY LOCATED IN ADAIR COUNTY, KENTUCKY

PARCEL 1:
THE FOLLOWING DESCRIBED REAL ESTATE IN ADAIR COUNTY, KENTUCKY:
BEING LOTS NUMBER ONE (1) (3.16 ACRES) AND NUMBER TWO (2) (3.16 ACRES) OF THE TURNER HEIRS FARM DIVISION, IN ADAIR COUNTY, KENTUCKY, AS SHOWN ON A PLAT OF SAID DIVISION RECORDED IN PLAT CABINET 4, SUDE 131, IN THE OFFICE OF THE ADAIR COUNTY COURT CLERK, TO WHICH REFERENCE IS HEREBY MADE FOR A MORE PARTICULAR DESCRIPTION OF SAID LOTS.
AND BEING THE SAME PROPERTY CONVEYED TO DAVID E. BOWMAN FROM JOHN DAVID TURNER AND LISA TURNER, ADAM DALE TURNER AND ANNA MARIA WALTERS AND JAMES WALTERS BY DEED DATED JULY 30, 2016 AND RECORDED AUGUST 2, 2016 IN DEED BOOK 340, PAGE 241.

PARCEL 2:
A CERTAIN TRACT OR PARCEL OF LAND LOCATED IN ADAIR COUNTY, KENTUCKY, DESCRIBED AS FOLLOWS:
BEGINNING AT A STONE AT SULPHUR CREEK, I.D., TURNER'S CORNER, THENCE WITH THE MEANDERS OF THE SAID SULPHUR CREEK AS FOLLOWS, N 41° E 15.98 POLES N 23° W 1.1 POLES N 64° W 30 POLES S 81° W 1.0 POLES S 47° W 74 POLES S 40° W 1.8 POLES S 36° W 34 POLES N 78° W 59 POLES S 75° W TO THE CORNER OF GREEN HILLS SUBDIVISION PROPERTY THENCE WITH THE LINE OF GREEN HILLS SUBDIVISION PROPERTY S 55° E APPROXIMATELY 140 POLES TO THE STONE AT SULPHUR FORK CREEK THE POINT OF BEGINNING AND CONTAINING 70 ACRES MORE OR LESS AND BEING THE SAME PROPERTY CONVEYED TO THE FIRST PARTY BY DEED FROM BELUAH TURNER, ET AL OF DATE 4TH NOVEMBER, 1961 AND RECORDED IN DEED BOOK NO 39 PAGE 332.

AND BEING THE SAME PROPERTY CONVEYED TO DAVID BOWMAN FROM SANDRA KAYE BOWMAN BY DEED DATED MAY 21, 2007 AND RECORDED MAY 23, 2007 IN DEED BOOK 299, PAGE 188.
TAX PARCEL NO. 063-00-00-055-00

PROPOSED 30' ACCESS & UTILITY EASEMENT
THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED 30' ACCESS & UTILITY EASEMENT TO BE GRANTED ON PROPERTY CONVEYED TO DAVID BOWMAN AS RECORDED IN THE OFFICE OF THE CLERK OF ADAIR COUNTY, KENTUCKY IN DEED BOOK 340, PAGE 241, PARCEL ID: 063-00-00-055-00, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEARING DATUM USED HEREIN IS BASED UPON KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE, NAD 83, FROM A REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM OBSERVATION USING THE KENTUCKY TRANSPORTATION CABINET REAL TIME GPS NETWORK COMPLETED ON SEPTEMBER 1, 2021.

BEGINNING AT A FOUND 1/2" REBAR WITH A BLUE CAP STAMPED "TA PHIPPS PLS 2488" IN THE SOUTH LINE OF THE PARCEL CONVEYED TO DAVID BOWMAN AS RECORDED IN DEED BOOK 340, PAGE 241, SAID POINT ALSO BEING THE NORTHWEST CORNER OF THE PARCEL CONVEYED TO DAVID BOWMAN AS RECORDED IN DEED BOOK 367, PAGE 189, FOR REFERENCE, SAID COMMENCEMENT POINT IS N39°48'40"E 437.93' FROM A FOUND 1/2" REBAR WITH A BLUE CAP STAMPED "TA PHIPPS PLS 2488" AT THE SOUTHWEST CORNER OF DAVID BOWMAN AS RECORDED IN DEED BOOK 367, PAGE 189; THENCE ALONG THE SOUTH LINE OF BOWMAN, DEED BOOK 340, PAGE 241 N55°00'00"W 29.93'; THENCE LEAVING SAID SOUTH LINE, TRAVERSING ACROSS THE LAND OF BOWMAN, ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 69.58', ARC LENGTH OF 72.40', THE CHORD OF WHICH BEARS N66°51'37"E 69.38'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 60.00', ARC LENGTH OF 52.26', THE CHORD OF WHICH BEARS N71°37'43"E 50.63'; THENCE N46°40'29"E 895.03'; THENCE N49°43'24"E 390.97'; THENCE N50°21'27"E 136.70'; THENCE S84°38'33"E 4.18'; THENCE S39°38'33"E 4.18'; THENCE S59°38'33"E 4.18'; THENCE N50°21'27"E 102.10'; THE CHORD OF WHICH BEARS S84°38'33"E 4.18'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 65.00', ARC LENGTH OF 15.00', ARC LENGTH OF 23.56'; THE CHORD OF WHICH BEARS S84°38'33"E 21.21'; THENCE N50°21'27"E 19.51'; THENCE S40°34'19"E 30.00' TO A SET 1/2" REBAR WITH A YELLOW PLASTIC CAP STAMPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A SET IPC, AT THE NORTHERN MOST CORNER OF THE PROPOSED LEASE AREA; THENCE ALONG SAID LEASE AREA, S49°25'41"W 100.00' TO A SET IPC; THENCE LEAVING SAID LEASE AREA, N40°34'19"W 30.00'; THENCE N50°21'27"E 20.48'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 15.00', ARC LENGTH OF 23.56'; THE CHORD OF WHICH BEARS N05°21'27"E 21.21'; THENCE N39°38'33"W 5.80'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 35.00', ARC LENGTH OF 54.98', THE CHORD OF WHICH BEARS N84°38'33"W 49.50'; THENCE S50°21'27"W 136.54'; THENCE S49°43'24"W 390.01'; THENCE S46°40'29"W 894.23'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 90.00', ARC LENGTH OF 78.40', THE CHORD OF WHICH BEARS S71°37'43"W 75.94'; THENCE N82°25'03"W 57.54'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 40.01', ARC LENGTH OF 78.40', THE CHORD OF WHICH BEARS S67°38'33"W 78.40'; TO THE POINT OF BEGINNING CONTAINING 54,077.328 SQUARE FEET PER SURVEY BY MARK E. PATTERSON, PLS 3136 ON SEPTEMBER 1, 2021.

LEGAL DESCRIPTIONS

PROPOSED LEASE AREA
THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED LEASE AREA ON THE PROPERTY CONVEYED TO DAVID BOWMAN AS RECORDED IN THE OFFICE OF THE CLERK OF ADAIR COUNTY, KENTUCKY IN DEED BOOK 340, PAGE 241, PARCEL ID: 063-00-00-055-00, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEARING DATUM USED HEREIN IS BASED UPON KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE, NAD 83, FROM A REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM OBSERVATION USING THE KENTUCKY TRANSPORTATION CABINET REAL TIME GPS NETWORK COMPLETED ON SEPTEMBER 1, 2021.

COMMENCING AT A FOUND 1/2" REBAR WITH A BLUE CAP STAMPED "TA PHIPPS PLS 2488" IN THE SOUTH LINE OF THE PARCEL CONVEYED TO DAVID BOWMAN AS RECORDED IN DEED BOOK 340, PAGE 241, SAID POINT ALSO BEING THE NORTHWEST CORNER OF THE PARCEL CONVEYED TO DAVID BOWMAN AS RECORDED IN DEED BOOK 367, PAGE 189, FOR REFERENCE, SAID COMMENCEMENT POINT IS N39°48'40"E 437.93' FROM A FOUND 1/2" REBAR WITH A BLUE CAP STAMPED "TA PHIPPS PLS 2488" AT THE SOUTHWEST CORNER OF DAVID BOWMAN AS RECORDED IN DEED BOOK 367, PAGE 189; THENCE ALONG THE SOUTH LINE OF BOWMAN, DEED BOOK 340, PAGE 241 N55°00'00"W 29.93'; THENCE LEAVING SAID SOUTH LINE, TRAVERSING ACROSS THE LAND OF BOWMAN, ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 69.58', ARC LENGTH OF 72.40', THE CHORD OF WHICH BEARS N66°51'37"E 69.18'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 60.00', ARC LENGTH OF 52.26', THE CHORD OF WHICH BEARS N71°37'43"E 50.63'; THENCE N46°40'29"E 895.03'; THENCE N49°43'24"E 390.97'; THENCE N50°21'27"E 136.70'; THENCE S84°38'33"E 4.18'; THENCE S39°38'33"E 4.18'; THENCE S59°38'33"E 4.18'; THENCE N50°21'27"E 102.10'; THE CHORD OF WHICH BEARS S84°38'33"E 4.18'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 65.00', ARC LENGTH OF 15.00', ARC LENGTH OF 23.56'; THE CHORD OF WHICH BEARS S84°38'33"E 21.21'; THENCE N50°21'27"E 19.51'; THENCE S40°34'19"E 30.00' TO A SET 1/2" REBAR WITH A YELLOW PLASTIC CAP STAMPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A SET IPC, AT THE NORTHERN MOST CORNER OF THE PROPOSED LEASE AREA AND BEING THE TRUE POINT OF BEGINNING; THENCE S40°34'19"E 100.00' TO A SET IPC; THENCE S49°25'41"W 100.00' TO A SET IPC; THENCE N40°34'19"W 100.00' TO A SET IPC; THENCE N49°25'41"E 100.00' TO THE POINT OF BEGINNING CONTAINING 10,000.000 SQUARE FEET PER SURVEY BY MARK E. PATTERSON, PLS 3136 ON SEPTEMBER 1, 2021.

REPORT OF SEARCH
THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY POD GROUP, LLC AND AS SUCH WE ARE NOT RESPONSIBLE FOR THE INVESTIGATION OR DISCOVERY OF UNRECORDED INTERESTS, UNRECORDED EASEMENTS, UNRECORDED PREScriptive EASEMENTS, OR ANY OTHER FACTS THAT ACCURATELY REFLECT THE CURRENT STATUS OF THE PROPERTY. INFORMATION REGARDING THESE MATTERS WERE GAINED FROM FIDELITY NATIONAL TITLE ORDER NO. 35140931. PREPARED FOR VERIZON WIRELESS, PERIOD OF SEARCH: MARCH 10, 1920 TO JULY 9, 2021 AT 8:00 AM. DATED: JULY 28, 2021. THE FOLLOWING COMMENTS ARE IN REGARD TO SAID SEARCH AND THE NUMBERS IN THE COMMENTS CORRESPOND TO THE NUMBERING SYSTEM IN SAID REPORT:

SEARCH DISCLOSED THE FOLLOWING:
1. TAXES
TYPE OF TAX: COUNTY
CALENDAR YEAR: 2020
PROPERTY IDENTIFICATION NUMBER: 063-00-00-055-00
PAID THROUGH: 2020
ASSESSMENT: \$34,100.00 (TOTAL = LAND AND IMPROVEMENTS, IF ANY) (NOT A LAND SURVEYING MATTER, THEREFORE, POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)

2. MATTERS AS SHOWN AND NOTED ON PLAT RECORDED IN PLAT BOOK 4, PAGE 131. (MATTERS AS SHOWN AND NOTED ON PLAT RECORDED IN PLAT BOOK 4, PAGE 131 ARE SHOWN HEREON.)
3. REAL ESTATE MORTGAGE FROM DAVID E. BOWMAN, GRANTOR(S), IN FAVOR OF THE FIRST FARMERS NATIONAL BANK, INC., COLUMBIA, MISSOURI, DATED NOVEMBER 20, 2019 IN DEED BOOK 374, PAGE 111. (NOT A LAND SURVEYING MATTER, THEREFORE, POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)

4. COMMERCIAL MORTGAGE FROM DAVID E. BOWMAN, GRANTOR(S), IN FAVOR OF THE FIRST FARMERS NATIONAL BANK, INC., COLUMBIA, MISSOURI, DATED NOVEMBER 20, 2019 IN DEED BOOK 374, PAGE 111. (NOT A LAND SURVEYING MATTER, THEREFORE, POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
5. COMMERCIAL MORTGAGE FROM DAVID BOWMAN FAMILY, LLC, A KENTUCKY LIMITED LIABILITY COMPANY, GRANTOR(S), IN FAVOR OF THE FIRST FARMERS NATIONAL BANK, INC., DATED NOVEMBER 15, 2019, AND RECORDED NOVEMBER 19, 2019 IN DEED BOOK 374, PAGE 726. IN THE ORIGINAL AMOUNT OF \$302,093,300. (NOTE: ENCUMBERS ADDITIONAL PROPERTY) (NOT A LAND SURVEYING MATTER, THEREFORE, POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)

6. COMMERCIAL MORTGAGE FROM DAVID BOWMAN FAMILY, LLC, A KENTUCKY LIMITED LIABILITY COMPANY, GRANTOR(S), IN FAVOR OF THE FIRST FARMERS NATIONAL BANK, INC., DATED NOVEMBER 15, 2019, AND RECORDED NOVEMBER 19, 2019 IN DEED BOOK 374, PAGE 726. IN THE ORIGINAL AMOUNT OF \$1,695,000.00. (NOTE: ENCUMBERS ADDITIONAL PROPERTY) AFFIDAVIT OF AMENDMENT OF MORTGAGE, DATED FEBRUARY 5, 2019 AND RECORDED FEBRUARY 8, 2019 IN DEED BOOK 366, PAGE 771. AFFIDAVIT OF AMENDMENT OF MORTGAGE, DATED NOVEMBER 14, 2019 AND RECORDED NOVEMBER 20, 2019 IN DEED BOOK 374, PAGE 111. (NOT A LAND SURVEYING MATTER, THEREFORE, POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)

7. COMMERCIAL MORTGAGE FROM DAVID BOWMAN FAMILY, LLC, A KENTUCKY LIMITED LIABILITY COMPANY, GRANTOR(S), IN FAVOR OF THE FIRST FARMERS NATIONAL BANK, INC., DATED NOVEMBER 15, 2019, AND RECORDED NOVEMBER 19, 2019 IN DEED BOOK 374, PAGE 726. IN THE ORIGINAL AMOUNT OF \$302,093,300. (NOTE: ENCUMBERS ADDITIONAL PROPERTY) (NOT A LAND SURVEYING MATTER, THEREFORE, POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)

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 CLOSE PERSONAL SUPERVISION AND THAT ALL 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
MARK PATTERSON, PLS #3136
10/27/2021
DATE

POD POWER OF DESIGN
11400 HILLCREST PARKWAY
COLUMBIA, KY 40306
502-437-5252

CELLCO PARTNERSHIP
D/B/A
Verizon

SITE SURVEY

REV.	DATE	DESCRIPTION
A	9.16.21	PRELIM ISSUE
0	10.27.21	ISSUED AS FINAL

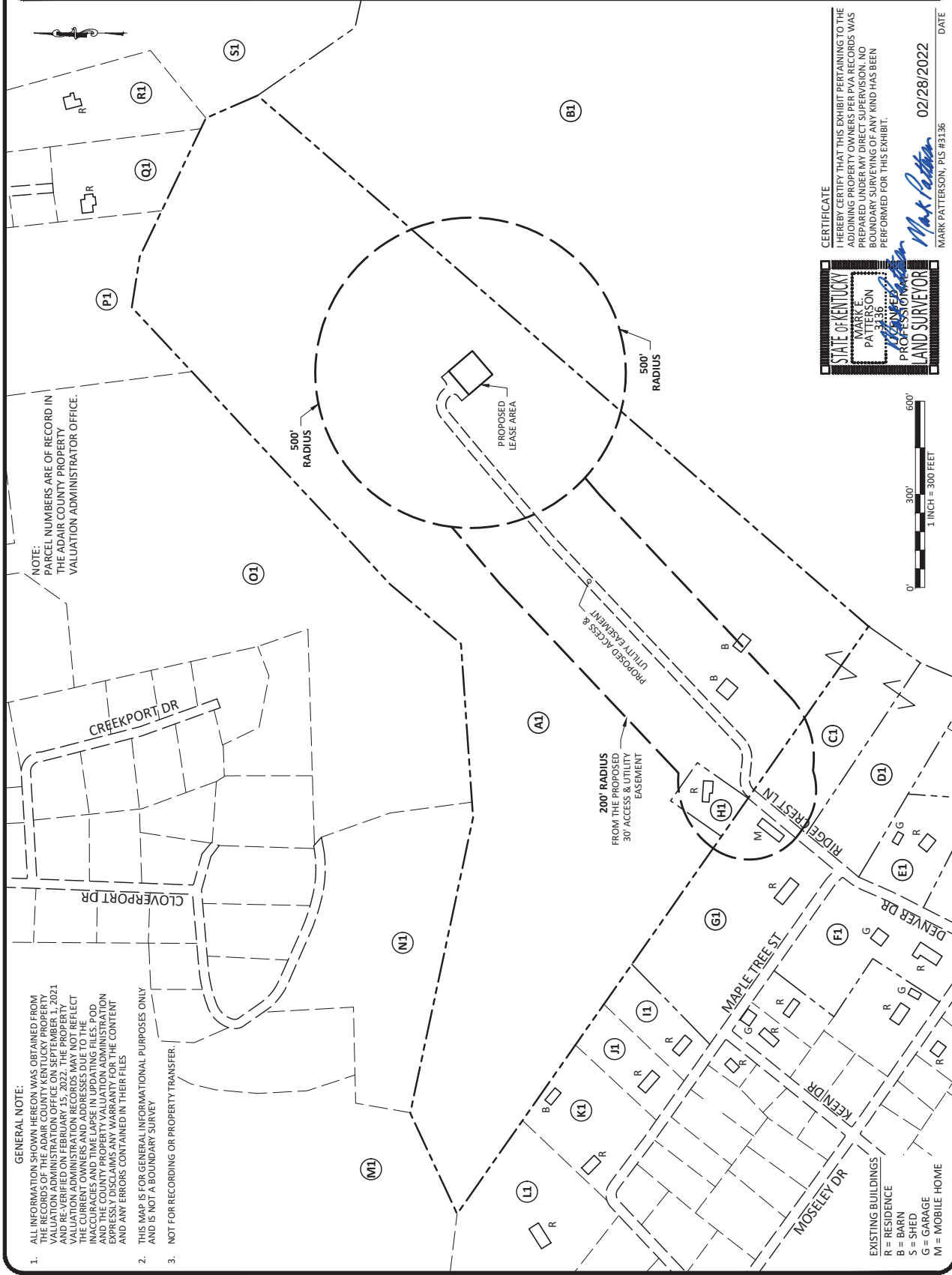
SITE INFORMATION:
CK COLUMBIA
CAPACITY
420 RIDGE CREST LANE
COLUMBIA, KY 42728
ADAIR COUNTY
TAX PARCEL NUMBER:
063-00-00-055-00
PROPERTY OWNER:
DAVID BOWMAN
420 RIDGE CREST LANE
COLUMBIA, KY 42728
SOURCE OF TITLE:
DEED BOOK 340, PAGE 241

POD NUMBER: 21-102853
DRAWN BY: A/W
CHECKED BY: M/P
SURVEY DATE: 9.16.21
PLAT DATE: 9.16.21

SITE SURVEY
THIS DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL.
SHEET NUMBER: (5 pages)
B-1.4

- GENERAL NOTE:
ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE ADAIR COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON SEPTEMBER 1, 2021 AND RE-VERIFIED ON FEBRUARY 15, 2022. THE PROPERTY INFORMATION SHOWN ON THIS MAP IS INTENDED TO 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.
- THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
- NOT FOR RECORDING OR PROPERTY TRANSFER.

NOTE:
PARCEL NUMBERS ARE OF RECORD IN THE ADAIR COUNTY PROPERTY VALUATION ADMINISTRATION OFFICE.



CELLCO
PARTNERSHIP
D/B/A

REV#	DATE	DESCRIPTION
A	2.15.22	ISSUED FOR REVIEW
0	2.25.22	FINAL

SITE INFORMATION:
CK COLUMBIA
CAPACITY
420 RIDGE CREST LANE
COLUMBIA, KY 42728
ADAIR COUNTY
TAX PARCEL NUMBER:
063-00-00-055.00
PROPERTY OWNER:
DAVID BOWMAN
420 RIDGECREST LANE
COLUMBIA, KY 42728
SOURCE OF TITLE:
DEED BOOK 340, PAGE 241

POD NUMBER: 21-102855
DRAWN BY: DAP
CHECKED BY: MAP
SURVEY DATE: 9/1/21
PLAT DATE: 2.15.22

SHEET TITLE:
**500' RADIUS AND
ABUTTERS MAP**

SHEET NUMBER: (3 pages)
B-2

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.



DATE: 02/28/2022
Mark Patterson
MARK PATTERSON, PLS #3136



PREPARED FOR:



CELLCO PARTNERSHIP D/B/A

REVISIONS

REV.	DATE	DESCRIPTION
A	2.15.22	ISSUED FOR REVIEW
0	2.15.22	FINAL

SITE INFORMATION:
CK COLUMBIA CAPACITY
 420 RIDGE CREST LANE
 COLUMBIA, KY 42728
 ADAIR COUNTY
 TAX PARCEL NUMBER:
 063-00-00-055.00

PROPERTY OWNER:
 DAVID BOWMAN
 420 RIDGE CREST LANE
 COLUMBIA, KY 42728
 SOURCE OF TITLE:
 DEED BOOK 340, PAGE 241

POD NUMBER: 21-102855
 DRAWN BY: DAP
 CHECKED BY: MAP
 SURVEY DATE: 9.15.21
 PLAT DATE: 2.15.22

SHEET TITLE:
500' RADIUS AND ABUTTERS MAP

SHEET NUMBER: (3 of 8es)
B-2.2

ADJACENT PROPERTY OWNERS

- (A1) PARCEL ID: 063-00-00-055.00
BOWMAN DAVID E
420 RIDGE CREST LN
COLUMBIA, KY 42728
- (B1) PARCEL ID: 063-00-00-054.00
BOWMAN DAVID E
420 RIDGE CREST LN
COLUMBIA, KY 42728
- (C1) PARCEL ID: 063-01-00-073.01
BOWMAN DAVID E
420 RIDGE CREST LN
COLUMBIA, KY 42728
- (D1) PARCEL ID: 063-01-00-073.02
BOWMAN DAVID E
420 RIDGE CREST LN
COLUMBIA, KY 42728
- (E1) PARCEL ID: 063-01-00-073.03
BOWMAN DAVID E
420 RIDGE CREST LN
COLUMBIA, KY 42728
- (F1) PARCEL ID: 063-01-00-030.00
BOWMAN DAVID E
420 RIDGE CREST LN
COLUMBIA, KY 42728
- (G1) PARCEL ID: 063-01-00-005.00
BOWMAN DAVID E
420 RIDGE CREST LN
COLUMBIA, KY 42728
- (H1) PARCEL ID: 063-01-00-005.01
BOWMAN DAVID E
420 RIDGE CREST LN
COLUMBIA, KY 42728
- (I1) PARCEL ID: 063-01-00-004.00
HAYNES MARY ESTATE
96 MAPLE TREE ST
COLUMBIA, KY 42728
- (J1) PARCEL ID: 063-01-00-003.00
WOOLEY ANDREW S
70 MAPLE TREE ST
COLUMBIA, KY 42728
- (K1) PARCEL ID: 063-01-00-002.00
SMITH BETTY
10 MAPLE TREE ST
COLUMBIA, KY 42728
- (L1) PARCEL ID: 063-01-00-001.00
LOY DENNIS & LISA
PO BOX 535
COLUMBIA, KY 42728
- (M1) PARCEL ID: 063-00-00-034.00
MCQUAIDE NELSON & SHANNON NEAT &
RYAN HARRIS
2160 LIBERTY ROAD
COLUMBIA, KY 42728
- (N1) PARCEL ID: 063-00-00-036.00
MCQUAIDE NELSON/ROSEMARY/NELSON
& EDIE MCQUAIDE
1271 LIBERTY ROAD
COLUMBIA, KY 42728
- (O1) PARCEL ID: 063-02-00-032.00
MCQUAIDE NELSON & EDDIE
1271 LIBERTY RD
COLUMBIA KY., 42728
- (P1) PARCEL ID: 063-02-00-036.00
MCQUAIDE NELSON E
1271 LIBERTY RD
COLUMBIA, KY 42728-2100
- (Q1) PARCEL ID: 063-02-00-046.00
BURTON MARTHA ANN
63 CLIFTY VIEW RD
COLUMBIA, KY 42728
- (R1) PARCEL ID: 063-02-00-037.03
GREEN AMANDA TELA MICHELLE
C/O BANK OF COLUMBIA
COLUMBIA, KY 42728
- (S1) PARCEL ID: 063-00-00-037.04
GREEN AMANDA TELA MICHELLE
3530 LIBERTY RD
COLUMBIA, KY 42728
- (T1) PARCEL ID: 063-00-00-054.01
JACKSON BRITTAIN & CAITLIN
311 JESSIE MURRELL RD
COLUMBIA, KY 42728
- (U1) PARCEL ID: 063-00-00-021.00
WILLIS WILLIAM C & BESSIE
RYAN HARRIS
2160 LIBERTY ROAD
COLUMBIA KY., 42728
- (V1) PARCEL ID: 063-00-00-100.06
WILLIS WILLIAM C & BESSIE
RYAN HARRIS
2160 LIBERTY ROAD
COLUMBIA, KY 42728
- (W1) PARCEL ID: 063-00-00-100.00
HADLEY TERRY & BITA
625 EAST 80 DRIVE
COLUMBIA, KY 42728
- (X1) PARCEL ID: 063-00-00-101.05
MANN GARY & BRENDA
1328 GREENHILLS RD
COLUMBIA, KY 42728
- (Y1) PARCEL ID: 063-00-00-101.06
MANN GARY & BRENDA
1328 GREENHILLS RD
COLUMBIA, KY 42728
- (Z1) PARCEL ID: 063-00-00-101.02
MANN GARY & BRENDA
1328 GREENHILLS RD
COLUMBIA, KY 42728
- (A2) PARCEL ID: 063-00-00-101.01
HIMES BOBBY & MARGIE ERLINE JOINT
REVOCABLE LIVING TRUST AGREEMENT
100 EAST VINE ST STE 501
LEANINGTON, KY 40507
- (B2) PARCEL ID: 063-01-00-073.09
LOY DENNIS & LISA
PO BOX 537
COLUMBIA, KY 42728
- (C2) PARCEL ID: 063-01-00-073.08
LOY DENNIS & LISA
PO BOX 537
COLUMBIA, KY 42728
- (D2) PARCEL ID: 063-01-00-073.04
MARTIN DAVID & ASHER & AVERY
75 DENVER DR
COLUMBIA, KY 42728
- (E2) PARCEL ID: 063-01-00-073.05
MARTIN DAVID & ASHER & AVERY
75 DENVER DR
COLUMBIA, KY 42728
- (F2) PARCEL ID: 063-01-00-073.06
MARTIN DAVID G & CATHY
206 TONG ST
COLUMBIA, KY 42728
- (G2) PARCEL ID: 063-01-00-045.00
MAKER DOLAN L & BARBARA
75 DENVER DR
COLUMBIA KY., 42728
- (H2) PARCEL ID: 063-01-00-045.01
CRANFORD PHILLIP & TALITHA
%FIRST AMERICAN REAL ESTATE TAX S
WESTLAKE, TX 76262
- (I2) PARCEL ID: 063-01-00-029.00
PARTIN TIMOTHY &
WILLIAM TYLER PARTIN
212 MOSELEY DR
COLUMBIA, KY 42728
- (J2) PARCEL ID: 063-01-00-026.00
HARRIS HOWARD & LINDA
109 MAPLE TREE ST
COLUMBIA, KY 42728
- (K2) PARCEL ID: 063-01-00-025.00
LOY DENNIS & LISA
PO BOX 535
COLUMBIA, KY 42728
- (L2) PARCEL ID: 063-01-00-018.00
LOY DENNIS & LISA
%UNITED CITIZENS BANK
700 JAMESTOWN STREET
COLUMBIA, KY 42728

ADJACENT PROPERTY OWNERS

- (L1) PARCEL ID: 063-01-00-001.00
LOY DENNIS & LISA
PO BOX 535
COLUMBIA, KY 42728
- (M1) PARCEL ID: 063-00-00-034.00
MCQUAIDE NELSON & SHANNON NEAT &
RYAN HARRIS
2160 LIBERTY ROAD
COLUMBIA, KY 42728
- (N1) PARCEL ID: 063-00-00-036.00
MCQUAIDE NELSON/ROSEMARY/NELSON
& EDIE MCQUAIDE
1271 LIBERTY ROAD
COLUMBIA, KY 42728
- (O1) PARCEL ID: 063-00-00-036.00
MCQUAIDE ELLEN/ROSEMARY/NELSON
& EDDIE MCQUAIDE
1271 LIBERTY ROAD
COLUMBIA, KY 42728
- (P1) PARCEL ID: 063-02-00-036.00
MCQUAIDE NELSON E
1271 LIBERTY RD
COLUMBIA, KY 42728-2100
- (Q1) PARCEL ID: 063-02-00-046.00
BURTON MARTHA ANN
63 CLIFTY VIEW RD
COLUMBIA, KY 42728
- (R1) PARCEL ID: 063-02-00-037.03
GREEN AMANDA TELA MICHELLE
C/O BANK OF COLUMBIA
COLUMBIA, KY 42728
- (S1) PARCEL ID: 063-00-00-037.04
GREEN AMANDA TELA MICHELLE
3530 LIBERTY RD
COLUMBIA, KY 42728
- (A1) PARCEL ID: 063-00-00-055.00
BOWMAN DAVID E
420 RIDGE CREST LN
COLUMBIA, KY 42728
- (B1) PARCEL ID: 063-00-00-054.00
BOWMAN DAVID E
420 RIDGE CREST LN
COLUMBIA, KY 42728
- (C1) PARCEL ID: 063-01-00-073.01
BOWMAN DAVID E
420 RIDGE CREST LN
COLUMBIA, KY 42728
- (D1) PARCEL ID: 063-01-00-073.02
BOWMAN DAVID E
420 RIDGE CREST LN
COLUMBIA, KY 42728
- (E1) PARCEL ID: 063-01-00-073.03
BOWMAN DAVID E
420 RIDGE CREST LN
COLUMBIA, KY 42728
- (F1) PARCEL ID: 063-01-00-030.00
BOWMAN DAVID E
420 RIDGE CREST LN
COLUMBIA, KY 42728
- (G1) PARCEL ID: 063-01-00-005.00
BOWMAN DAVID E
420 RIDGE CREST LN
COLUMBIA, KY 42728
- (H1) PARCEL ID: 063-01-00-005.01
BOWMAN DAVID E
420 RIDGE CREST LN
COLUMBIA, KY 42728
- (I1) PARCEL ID: 063-01-00-004.00
HAYNES MARY ESTATE
96 MAPLE TREE ST
COLUMBIA, KY 42728
- (J1) PARCEL ID: 063-01-00-003.00
WOOLEY ANDREW S
70 MAPLE TREE ST
COLUMBIA, KY 42728
- (K1) PARCEL ID: 063-01-00-002.00
SMITH BETTY
10 MAPLE TREE ST
COLUMBIA, KY 42728

GENERAL NOTE:

- ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE ADAIR COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON SEPTEMBER 1, 2021 AND RECORDED ON FEBRUARY 15, 2022. THE PROPERTY AND LOT OWNERS LISTED ARE BELIEVED TO CORRECTLY 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
- THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY
- NOT FOR RECORDING OR PROPERTY TRANSFER.

NOTE:
 PARCEL NUMBERS ARE OF RECORD IN
 THE ADAIR COUNTY PROPERTY
 VALUATION ADMINISTRATION OFFICE.



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 E. Patterson
 Mark Patterson, PLS #3136
 DATE: 02/28/2022

DATE

REVISION LOG

REV *	MM/DD/YY	SHEET NUMBER	DESCRIPTION OF REVISION
A	2/10/2021	ALL SHEETS	ISSUED FOR REVIEW
0	2/28/2022	C-1B	ADDED MEASUREMENT TO SOUTHWEST RESIDENTIAL STRUCTURE
0	2/28/2022	ALL SHEETS	ISSUED AS FINAL

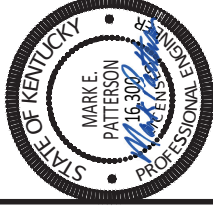


CELLCO PARTNERSHIP

D/B/A



03/01/2022



EN PERMIT: 3594

ZONING DRAWINGS

REV	DATE	DESCRIPTION
A	2.10.22	ISSUED FOR REVIEW
0	2.28.22	ISSUED AS FINAL

SITE INFORMATION:

CK COLUMBIA CAPACITY

420 RICE CREST LANE
COLUMBIA KY 40302
ADAIR COUNTY

POD NUMBER: 21-102860

DRAWN BY: POD
CHECKED BY: MEP
DATE: 02.10.22

SHEET TITLE:

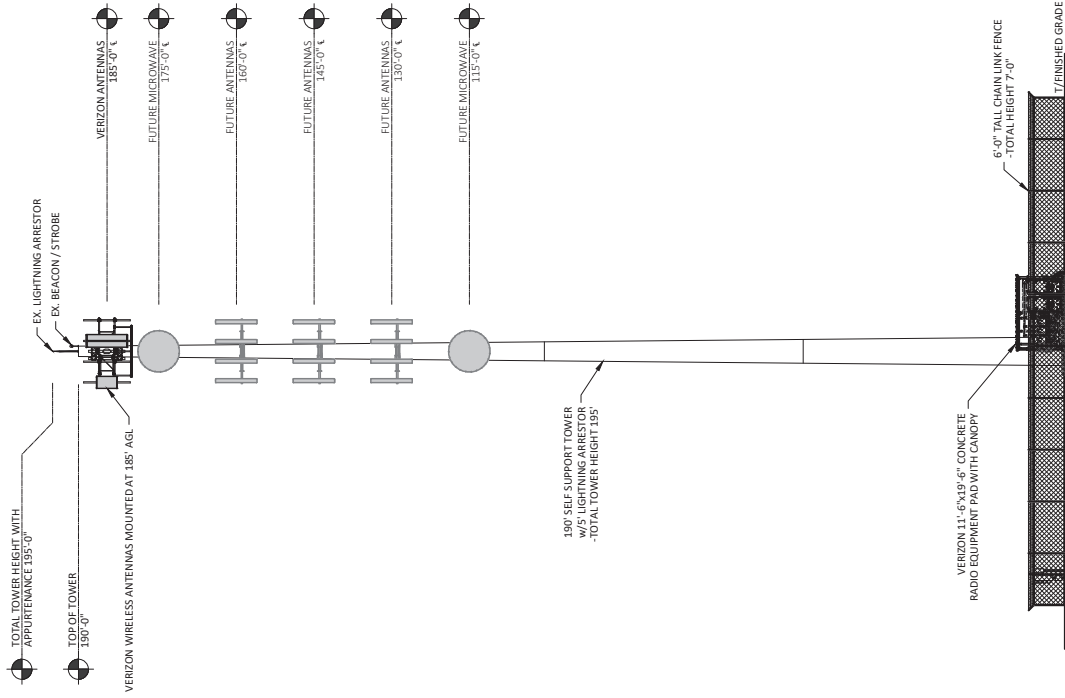
REVISION LOG

SHEET NUMBER:

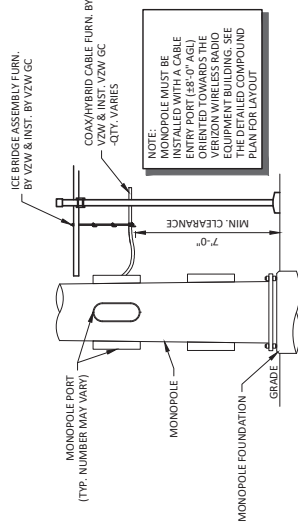
R-1

NOTE:

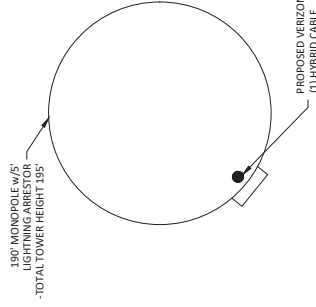
- IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL ANTENNA INFORMATION AGAINST FINAL RADIO ENGINEERING PLAN PROVIDED BY CELCO PARTNERSHIP 4/16/16, VERIZON (VZW GC)



TOWER ELEVATION 1
SCALE: N.T.S.



MONOPOLE PORT HYBRID CABLE INSTALLATION DETAIL 2
SCALE: N.T.S.



COAX PLAN
SCALE: N.T.S.



CELCO PARTNERSHIP

D/B/A



03/01/2022



EN PERMIT: 3594

ZONING DRAWINGS	
REV#	DESCRIPTION
A	2.10.22 ISSUED FOR REVIEW
0	2.28.22 ISSUED AS FINAL

SITE INFORMATION:
CK COLUMBIA CAPACITY
420 RIDGE CREST LANE
COLUMBIA, KY 40302
ADAIR COUNTY

POD NUMBER: 21-102860
DRAWN BY: POD
CHECKED BY: MEP
DATE: 02.10.22

SHEET TITLE:
TOWER ELEVATION

SHEET NUMBER:
TE-1





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

CELCO PARTNERSHIP

D/B/A



03/01/2022



EN PERMIT: 3594

ZONING DRAWINGS

REV#	DATE	DESCRIPTION
A	2.10.22	ISSUED FOR REVIEW
0	2.28.22	ISSUED AS FINAL

SITE INFORMATION:

CK COLUMBIA CAPACITY

420 RIDGE CREST LANE
COLUMBIA, KY 40302
ADAMS COUNTY

POD NUMBER: 21-102860

DRAWN BY: POD
CHECKED BY: MEP
DATE: 02.10.22

SHEET TITLE:

OVERALL SITE PLAN W/AERIAL OVERLAY

SHEET NUMBER:

C-1



LEGEND

- UTILITY POLE
- UTILITY ANCHOR
- PROPOSED LEASE LINE
- PROPOSED EASEMENT
- PROPOSED GRAVEL
- PROPOSED FENCE
- EXISTING GRAVEL
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC & TELEPHONE
- EXISTING PAVEMENT
- PROPERTY LINE
- ADJACENT PROPERTY LINE



OVERALL SITE PLAN W/AERIAL OVERLAY

SCALE: 1" = 175'



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

FOR BIDDING STATEWORK, IT IS ADVISED THAT THE LOCATION OF ALL UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR.



11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-413-5225

CELLCO PARTNERSHIP
DBA



03/01/2022



EN PERMIT: 3594

ZONING DRAWINGS

REV	DATE	DESCRIPTION
A	2.10.22	ISSUED FOR REVIEW
0	2.28.22	ISSUED AS FINAL

SITE INFORMATION:

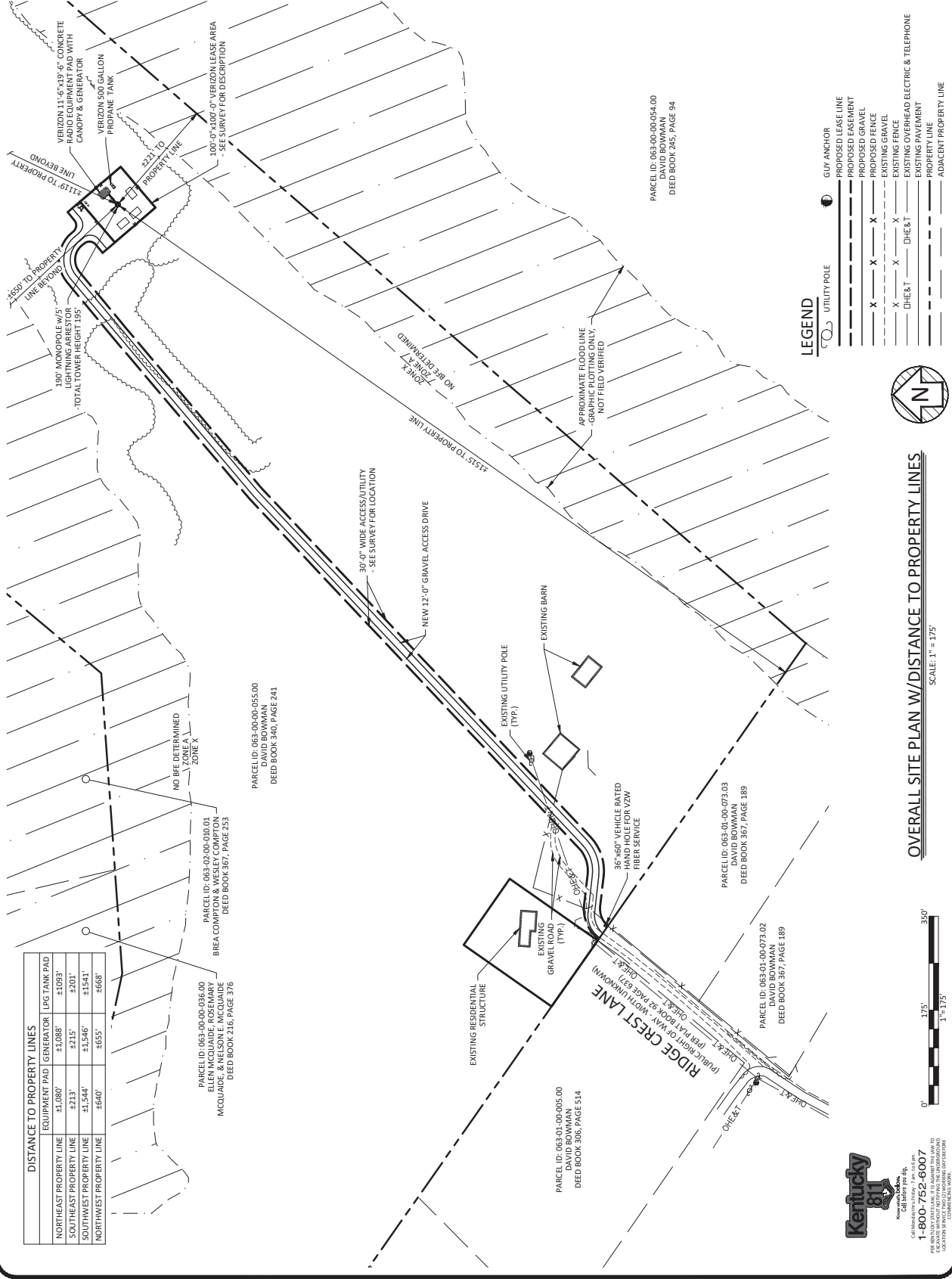
CK COLUMBIA CAPACITY

420 RIDGE CREST LANE
LOUISVILLE, KY 40228
ADAIR COUNTY

POD NUMBER: 21-102860
DRAWN BY: POD
CHECKED BY: MEP
DATE: 02.10.22

OVERALL SITE PLAN W/DISTANCE TO PROPERTY LINES

SHEET NUMBER: C-1A



DISTANCE TO PROPERTY LINES	
EQUIPMENT PAD	GENERATOR LPS TANK PAD
NORTHEAST PROPERTY LINE	\$1,088' ±1,093'
SOUTHEAST PROPERTY LINE	\$213' ±201'
SOUTHWEST PROPERTY LINE	\$1,544' ±1,541'
NORTHWEST PROPERTY LINE	\$660' ±668'

PARCEL ID: 063-00-00-036.00
DAVID BOWMAN
DEED BOOK 340, PAGE 241

PARCEL ID: 063-02-00-010.01
BREAR COMPTON & WESLEY COMPTON
DEED BOOK 367, PAGE 253

PARCEL ID: 063-00-00-055.00
DAVID BOWMAN
DEED BOOK 340, PAGE 241

PARCEL ID: 063-01-00-005.00
DAVID BOWMAN
DEED BOOK 306, PAGE 514

PARCEL ID: 063-01-00-073.03
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.02
DAVID BOWMAN
DEED BOOK 367, PAGE 189

LEGEND

	GUY ANCHOR
	PROPOSED LEASE LINE
	PROPOSED EASEMENT
	PROPOSED GRAVEL
	PROPOSED FENCE
	EXISTING GRAVEL
	EXISTING FENCE
	EXISTING OVERHEAD ELECTRIC & TELEPHONE
	EXISTING PAVEMENT
	PROPERTY LINE
	ADJACENT PROPERTY LINE



OVERALL SITE PLAN W/DISTANCE TO PROPERTY LINES

SCALE: 1" = 175'



Call before you dig.
1-800-752-6007
FOR BIDDING STATEWORK, AS APPLICABLE, CONTACT THE
KENTUCKY DEPARTMENT OF REVENUE, DIVISION OF
CONTRACTS AND BIDDING.



11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-413-5235

CELCO PARTNERSHIP
DBA



03/01/2022



EN PERMIT: 3594

ZONING DRAWINGS

REV	DATE	DESCRIPTION
A	2.10.22	ISSUED FOR REVIEW
0	2.28.22	ISSUED AS FINAL

SITE INFORMATION:

CK COLUMBIA CAPACITY

420 RIDGE CREST LANE
LOUISVILLE, KY 40228
ADAIR COUNTY

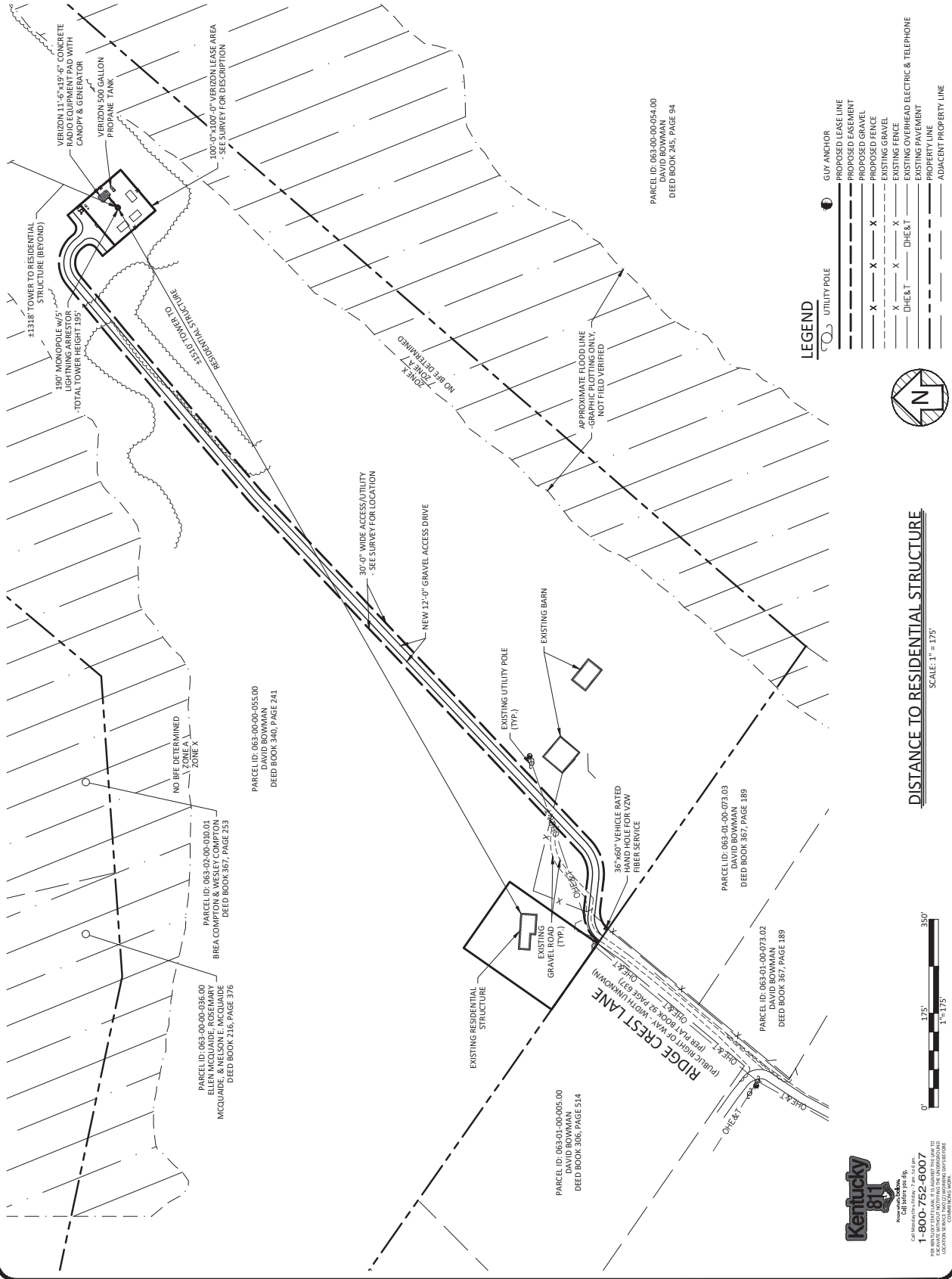
POD NUMBER: 21-102860

DRAWN BY: POD
CHECKED BY: MEP
DATE: 02.10.22

SHEET TITLE:

DISTANCE TO RESIDENTIAL STRUCTURE

SHEET NUMBER:
C-1B



LEGEND

	UTILITY POLE		GUY ANCHOR
	PROPOSED LEASE LINE		PROPOSED EASEMENT
	PROPOSED GRAVEL		PROPOSED FENCE
	EXISTING GRAVEL		EXISTING FENCE
	DHE&T		EXISTING OVERHEAD ELECTRIC & TELEPHONE
	EXISTING PAVEMENT		PROPERTY LINE
	ADJACENT PROPERTY LINE		



DISTANCE TO RESIDENTIAL STRUCTURE
SCALE: 1" = 175'



Call before you dig.
1-800-752-6007
FOR BIDDING STATEWORK, AS APPLICABLE, CONTACT THE
KENTUCKY DEPARTMENT OF REVENUE, DIVISION OF
CONTRACTS AND BIDDING, 100 EAST MAIN STREET, COLUMBIA, KY 40302



CELCO PARTNERSHIP

D/B/A



03/01/2022



EN PERMIT: 3594

ZONING
DRAWINGS

REV	DATE	DESCRIPTION
A	2.10.22	ISSUED FOR REVIEW
0	2.28.22	ISSUED AS FINAL

SITE INFORMATION:

CK COLUMBIA
CAPACITY

428 RIDGE CREST LANE
COLUMBIA, KY 40304
ADAIR COUNTY

POD NUMBER: 21-102860

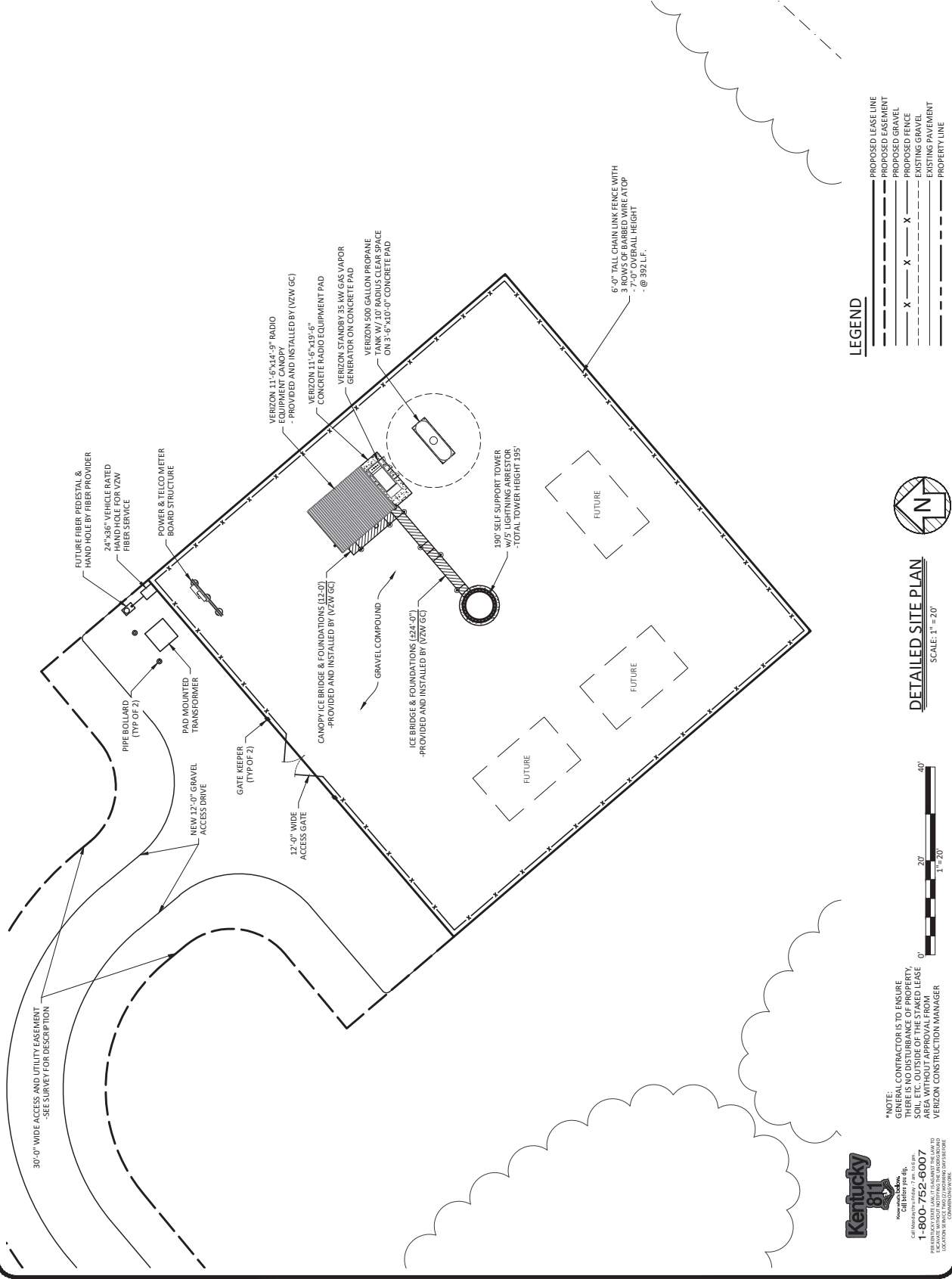
DRAWN BY: POD
CHECKED BY: MEP
DATE: 02.10.22

SHEET TITLE:

DETAILED SITE PLAN

SHEET NUMBER:

C-3



LEGEND

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



DETAILED SITE PLAN
SCALE: 1" = 20'



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





Structural Design Report

190' Monopole

Site: CK Columbia, KY

Site Number: KY-1055

Prepared for: APC TOWERS III, LLC

by: Sabre Industries™

Job Number: 503734

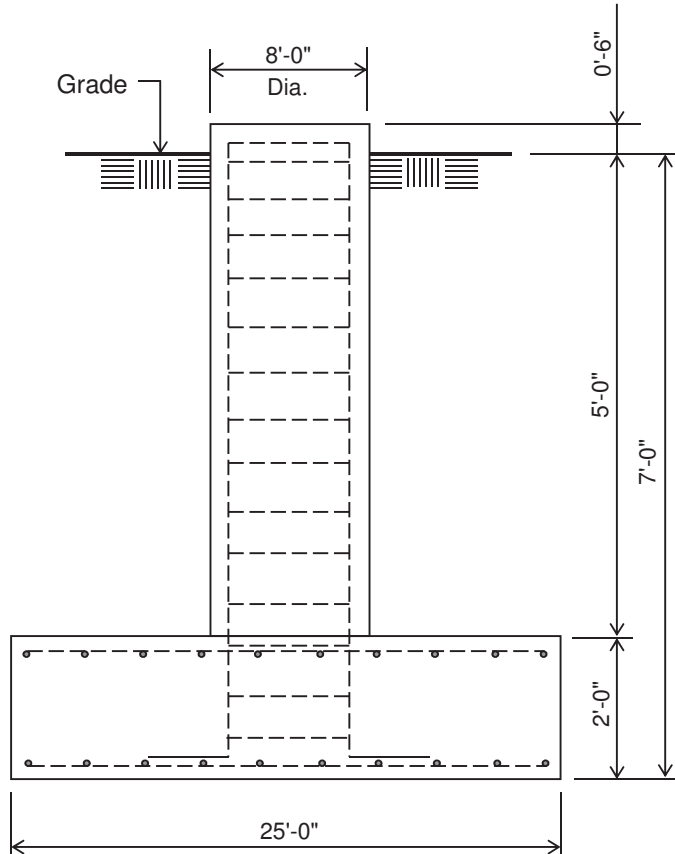
May 4, 2022

Monopole Profile.....	1
Foundation Design Summary (Option 1).....	2
Foundation Design Summary (Option 2).....	3
Pole Calculations.....	4-16
Foundation Calculations.....	17-25



Digitally Signed By David Hill
DN: c=US, st=Texas,
l=Alvarado, o=SABRE
INDUSTRIES, INC., cn=David
Hill,
email=dhill@sabreindustries.c
om Date: 2022.05.04 11:40:02

Customer: APC TOWERS III, LLC
Site: CK Columbia, KY KY-1055
190' Monopole



ELEVATION VIEW

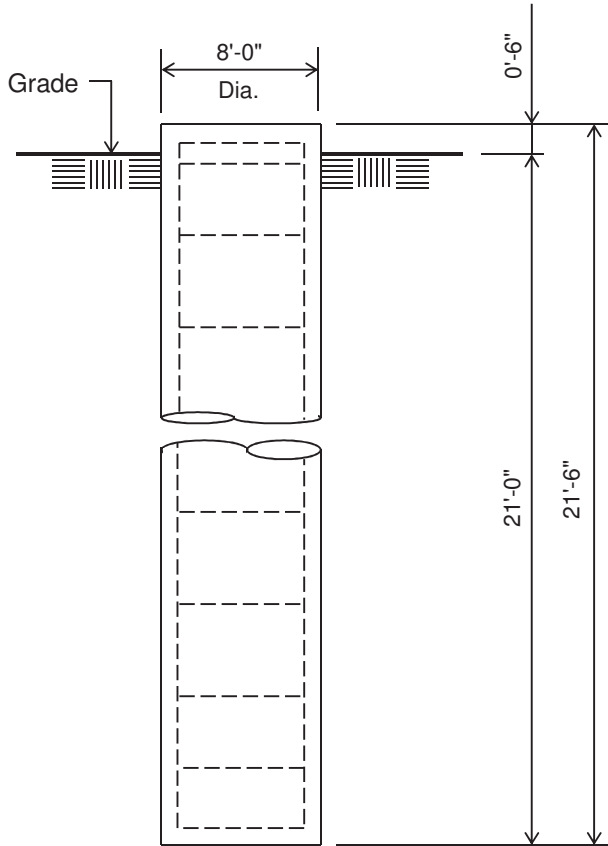
(56.54 Cu. Yds.)
(1 REQUIRED; NOT TO SCALE)

Notes:

- 1) Concrete shall have a minimum 28-day compressive strength of 4,500 psi, in accordance with ACI 318-14.
- 2) Rebar to conform to ASTM specification A615 Grade 60.
- 3) All rebar to have a minimum of 3" concrete cover.
- 4) All exposed concrete corners to be chamfered 3/4".
- 5) The foundation design is based on the geotechnical report by Collier Engineering Company, Inc.; project# 3363-22-02; dated March 30, 2022.
- 6) See the geotechnical report for compaction requirements, if specified.
- 7) 5 ft of soil cover is required over the entire area of the foundation slab.
- 8) The bottom anchor bolt template shall be positioned as closely as possible to the bottom of the anchor bolts.

Rebar Schedule for Pad and Pier	
Pier	(54) #9 vertical rebar w/ hooks at bottom w/ #5 ties, (2) within top 5" of pier, then 4" C/C
Pad	(29) #10 horizontal rebar evenly spaced each way top and bottom (116 total)

Customer: APC TOWERS III, LLC
Site: CK Columbia, KY KY-1055
190' Monopole



ELEVATION VIEW

(40.03 Cu. Yds.)
(1 REQUIRED; NOT TO SCALE)

Notes:

- 1) Concrete shall have a minimum 28-day compressive strength of 4,500 psi, in accordance with ACI 318-14.
- 2) Rebar to conform to ASTM specification A615 Grade 60.
- 3) All rebar to have a minimum of 3" concrete cover.
- 4) All exposed concrete corners to be chamfered 3/4".
- 5) The foundation design is based on the geotechnical report by Collier Engineering Company, Inc.; project# 3363-22-02; dated March 30, 2022.
- 6) See the geotechnical report for drilled pier installation requirements, if specified.
- 7) The bottom anchor bolt template shall be positioned as closely as possible to the bottom of the anchor bolts.

Rebar Schedule for Pier	
Pier	(44) #10 vertical rebar w/ #5 ties, (2) within top 5" of pier, then 7" C/C

Processed under license at:

Sabre Towers and Poles on: 4 may 2022 at: 10:52:56
 =====

190' Monopole / CK Columbia, KY

* All pole diameters shown on the following pages are across corners.
 See profile drawing for widths across flats.

=====

ELEV	SECTION	No.	OUTSIDE	THICK	RESISTANCES	SPLICE	...OVERLAP...	w/t
ft	NAME	SIDE	DIAM	-NESS	◆*Pn ◆*Mn	TYPE	LENGTH RATIO	
			in	in	kip ft-kip		ft	
189.0	A	18	17.30	0.250	989.8 339.5			10.8
			28.75	0.250	1590.5 917.1			
142.5	A/B	18	28.75	0.250	1590.5 917.1	SLIP	4.25 1.77	
			29.30	0.375	2518.6 1468.0			
138.2	B	18	29.30	0.375	2518.6 1468.0			12.6
			38.76	0.375	3295.9 2557.5			
99.7	B/C	18	38.76	0.375	3295.9 2557.5	SLIP	5.50 1.70	
			39.38	0.375	3335.0 2629.8			
94.2	C	18	39.38	0.375	3335.0 2629.8			17.3
			49.46	0.375	3912.4 3889.7			
53.2	C/D	18	49.46	0.375	3912.4 3889.7	SLIP	7.00 1.69	
			50.44	0.375	3962.6 4019.4			
46.2	D	18	50.44	0.375	3962.6 4019.4			22.4
			61.82	0.375	4461.7 5561.9			
0.0								

=====

SECTION	BASE	BOLTS	AT	BASE	OF SECTION	CALC
NAME	ELEV	NUMBER	TYPE	DIAM	STRENGTH	BASE
	ft			in	ksi	ELEV
						ft
A	138.250	0	A325	0.00	92.0	138.250
B	94.250	0	A325	0.00	92.0	94.250
C	46.250	0	A325	0.00	92.0	46.250
D	0.000	0	A325	0.00	92.0	0.000

=====

SECTION	No. of	LENGTH	OUTSIDE	DIAMETER	BEND	MAT-	FLANGE	FLANGE	FLANGE
NAME	SIDES		BOT	TOP	RAD	ERIAL	BOT	TOP	WELD
		ft	* in	* in	in	ID			GROUP
									ID
A	18	50.75	29.80	17.30	0.625	1	0	0	0
B	18	48.25	40.13	28.25	0.625	2	0	0	0
C	18	53.50	51.19	38.01	0.625	3	0	0	0
D	18	53.25	61.82	48.71	0.625	4	0	0	0

* - Diameter of circumscribed circle

=====

TYPE OF	TYPE	NO OF	ORIENT	HEIGHT	WIDTH	.THICKNESS.	IRREGULARITY
SHAPE	NO	ELEM.	& deg	in	in	WEB FLANGE	.PROJECTION.
						in in	% OF ORIENT
							AREA
							deg
PL	1	1	0.0	29.80	0.25	0.250 0.250	0.00 0.0
PL	2	1	0.0	40.13	0.38	0.375 0.375	0.00 0.0

PL	3	1	0.0	51.19	0.38	0.375	0.375	0.00	0.0
PL	4	1	0.0	61.82	0.38	0.375	0.375	0.00	0.0

& - with respect to vertical

MATERIAL PROPERTIES

=====

MATERIAL TYPE NO.	ELASTIC MODULUS ksi	UNIT WEIGHT pcf	.. STRENGTH .. Fu ksi Fy ksi		THERMAL COEFFICIENT /deg
1	29000.0	490.0	80.0	65.0	0.00001170
2	29000.0	490.0	80.0	65.0	0.00001170
3	29000.0	490.0	80.0	65.0	0.00001170
4	29000.0	490.0	80.0	65.0	0.00001170

* Only 5 condition(s) shown in full

* RRUs/TMAs were assumed to be behind antennas

* Some concentrated wind loads may have been derived from full-scale wind tunnel testing

=====

LOADING CONDITION A

105 mph wind with no ice. Wind Azimuth: 0° (1.2 D + 1.0 W)

LOADS ON POLE

=====

LOAD TYPE	ELEV ft	APPLY RADIUS ft	LOAD AT AZI	LOAD AZIFORCES.....	MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	185.000	0.00	0.0	0.0	0.0302	0.0168	0.0000	0.0000
C	184.000	0.00	0.0	0.0	0.0000	1.3778	0.0000	0.0000
C	184.000	0.00	0.0	0.0	7.8557	4.5876	0.0000	0.0000
C	175.000	0.00	0.0	0.0	0.0299	0.0168	0.0000	0.0000
C	169.000	0.00	0.0	0.0	0.0000	1.2655	0.0000	0.0000
C	169.000	0.00	0.0	0.0	7.6492	5.4504	0.0000	0.0000
C	165.000	0.00	0.0	0.0	0.0295	0.0168	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.0000	1.1906	0.0000	0.0000
C	159.000	0.00	0.0	0.0	7.5522	5.4504	0.0000	0.0000
C	155.000	0.00	0.0	0.0	0.0291	0.0168	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0287	0.0168	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0283	0.0168	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0278	0.0168	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0273	0.0168	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0268	0.0168	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0263	0.0168	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0257	0.0168	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0250	0.0168	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0242	0.0168	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0234	0.0168	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0224	0.0168	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0213	0.0168	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0198	0.0168	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0178	0.0168	0.0000	0.0000
D	189.000	0.00	180.0	0.0	0.0416	0.0606	0.0000	0.0000
D	173.500	0.00	180.0	0.0	0.0416	0.0606	0.0000	0.0000
D	173.500	0.00	180.0	0.0	0.0490	0.0727	0.0000	0.0000
D	158.000	0.00	180.0	0.0	0.0490	0.0727	0.0000	0.0000
D	158.000	0.00	180.0	0.0	0.0559	0.0848	0.0000	0.0000
D	142.500	0.00	180.0	0.0	0.0559	0.0848	0.0000	0.0000
D	142.500	0.00	180.0	0.0	0.0601	0.2286	0.0000	0.0000
D	138.250	0.00	180.0	0.0	0.0601	0.2286	0.0000	0.0000
D	138.250	0.00	180.0	0.0	0.0626	0.1462	0.0000	0.0000
D	125.417	0.00	180.0	0.0	0.0626	0.1462	0.0000	0.0000
D	125.417	0.00	180.0	0.0	0.0675	0.1611	0.0000	0.0000
D	112.583	0.00	180.0	0.0	0.0675	0.1611	0.0000	0.0000
D	112.583	0.00	180.0	0.0	0.0721	0.1761	0.0000	0.0000
D	99.750	0.00	180.0	0.0	0.0721	0.1761	0.0000	0.0000
D	99.750	0.00	180.0	0.0	0.0750	0.3704	0.0000	0.0000
D	94.250	0.00	180.0	0.0	0.0750	0.3704	0.0000	0.0000
D	94.250	0.00	180.0	0.0	0.0764	0.1948	0.0000	0.0000
D	80.583	0.00	180.0	0.0	0.0764	0.1948	0.0000	0.0000
D	80.583	0.00	180.0	0.0	0.0798	0.2108	0.0000	0.0000
D	66.917	0.00	180.0	0.0	0.0798	0.2108	0.0000	0.0000
D	66.917	0.00	180.0	0.0	0.0822	0.2268	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0822	0.2268	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0833	0.4745	0.0000	0.0000
D	46.250	0.00	180.0	0.0	0.0833	0.4745	0.0000	0.0000
D	46.250	0.00	180.0	0.0	0.0822	0.2465	0.0000	0.0000
D	34.688	0.00	180.0	0.0	0.0822	0.2465	0.0000	0.0000
D	34.688	0.00	180.0	0.0	0.0810	0.2600	0.0000	0.0000
D	23.125	0.00	180.0	0.0	0.0810	0.2600	0.0000	0.0000
D	23.125	0.00	180.0	0.0	0.0769	0.2736	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0774	0.2871	0.0000	0.0000

LOADING CONDITION M

105 mph wind with no ice. wind Azimuth: 0° (0.9 D + 1.0 Wo)

LOADS ON POLE

LOAD TYPE	ELEV ft	APPLY. RADIUS ft	LOAD. AZI	AT AZI	LOAD AZIFORCES.....	MOMENTS.....	
						HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	185.000	0.00	0.0	0.0	0.0	0.0302	0.0126	0.0000	0.0000
C	184.000	0.00	0.0	0.0	0.0	0.0000	1.0333	0.0000	0.0000
C	184.000	0.00	0.0	0.0	0.0	7.8557	3.4407	0.0000	0.0000
C	175.000	0.00	0.0	0.0	0.0	0.0299	0.0126	0.0000	0.0000
C	169.000	0.00	0.0	0.0	0.0	0.0000	0.9491	0.0000	0.0000
C	169.000	0.00	0.0	0.0	0.0	7.6492	4.0878	0.0000	0.0000
C	165.000	0.00	0.0	0.0	0.0	0.0295	0.0126	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.0	0.0000	0.8929	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.0	7.5522	4.0878	0.0000	0.0000
C	155.000	0.00	0.0	0.0	0.0	0.0291	0.0126	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0	0.0287	0.0126	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0	0.0283	0.0126	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0	0.0278	0.0126	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0	0.0273	0.0126	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0	0.0268	0.0126	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0	0.0263	0.0126	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0	0.0257	0.0126	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0	0.0250	0.0126	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0	0.0242	0.0126	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0	0.0234	0.0126	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0	0.0224	0.0126	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0	0.0213	0.0126	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0	0.0198	0.0126	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0	0.0178	0.0126	0.0000	0.0000
D	189.000	0.00	180.0	0.0	0.0	0.0417	0.0455	0.0000	0.0000
D	142.500	0.00	180.0	0.0	0.0	0.0560	0.0636	0.0000	0.0000
D	142.500	0.00	180.0	0.0	0.0	0.0601	0.1715	0.0000	0.0000
D	138.250	0.00	180.0	0.0	0.0	0.0601	0.1715	0.0000	0.0000
D	138.250	0.00	180.0	0.0	0.0	0.0626	0.1096	0.0000	0.0000
D	125.417	0.00	180.0	0.0	0.0	0.0626	0.1096	0.0000	0.0000
D	125.417	0.00	180.0	0.0	0.0	0.0675	0.1208	0.0000	0.0000
D	112.583	0.00	180.0	0.0	0.0	0.0675	0.1208	0.0000	0.0000
D	112.583	0.00	180.0	0.0	0.0	0.0721	0.1321	0.0000	0.0000
D	99.750	0.00	180.0	0.0	0.0	0.0721	0.1321	0.0000	0.0000
D	99.750	0.00	180.0	0.0	0.0	0.0750	0.2778	0.0000	0.0000
D	94.250	0.00	180.0	0.0	0.0	0.0750	0.2778	0.0000	0.0000
D	94.250	0.00	180.0	0.0	0.0	0.0764	0.1461	0.0000	0.0000
D	80.583	0.00	180.0	0.0	0.0	0.0764	0.1461	0.0000	0.0000
D	80.583	0.00	180.0	0.0	0.0	0.0798	0.1581	0.0000	0.0000
D	66.917	0.00	180.0	0.0	0.0	0.0798	0.1581	0.0000	0.0000
D	66.917	0.00	180.0	0.0	0.0	0.0822	0.1701	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0	0.0822	0.1701	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0	0.0833	0.3559	0.0000	0.0000
D	46.250	0.00	180.0	0.0	0.0	0.0833	0.3559	0.0000	0.0000
D	46.250	0.00	180.0	0.0	0.0	0.0822	0.1849	0.0000	0.0000
D	34.688	0.00	180.0	0.0	0.0	0.0822	0.1849	0.0000	0.0000
D	34.688	0.00	180.0	0.0	0.0	0.0810	0.1950	0.0000	0.0000
D	23.125	0.00	180.0	0.0	0.0	0.0810	0.1950	0.0000	0.0000
D	23.125	0.00	180.0	0.0	0.0	0.0769	0.2052	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0	0.0774	0.2153	0.0000	0.0000

LOADING CONDITION Y

30 mph wind with 1.5 ice. wind Azimuth: 0° (1.2 D + 1.0 Di + 1.0 Wi)

LOADS ON POLE

LOAD TYPE	ELEV ft	APPLY. RADIUS ft	LOAD. AZI	AT AZI	LOAD AZIFORCES.....	MOMENTS.....	
						HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	185.000	0.00	0.0	0.0	0.0	0.0198	0.0288	0.0000	0.0000
C	184.000	0.00	0.0	0.0	0.0	0.0000	1.3778	0.0000	0.0000
C	184.000	0.00	0.0	0.0	0.0	1.0161	9.6027	0.0000	0.0000
C	175.000	0.00	0.0	0.0	0.0	0.0195	0.0288	0.0000	0.0000
C	169.000	0.00	0.0	0.0	0.0	0.0000	1.2655	0.0000	0.0000
C	169.000	0.00	0.0	0.0	0.0	0.9266	11.7473	0.0000	0.0000
C	165.000	0.00	0.0	0.0	0.0	0.0191	0.0288	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.0	0.0000	1.1906	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.0	0.9131	11.7092	0.0000	0.0000
C	155.000	0.00	0.0	0.0	0.0	0.0188	0.0288	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0	0.0184	0.0288	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0	0.0180	0.0288	0.0000	0.0000

C	125.000	0.00	0.0	0.0	0.0176	0.0288	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0172	0.0288	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0167	0.0288	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0162	0.0288	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0157	0.0288	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0151	0.0288	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0145	0.0288	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0138	0.0288	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0130	0.0288	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0121	0.0288	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0109	0.0288	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0094	0.0288	0.0000	0.0000
D	189.000	0.00	180.0	0.0	0.0070	0.1063	0.0000	0.0000
D	173.500	0.00	180.0	0.0	0.0070	0.1063	0.0000	0.0000
D	173.500	0.00	180.0	0.0	0.0080	0.1261	0.0000	0.0000
D	158.000	0.00	180.0	0.0	0.0080	0.1261	0.0000	0.0000
D	158.000	0.00	180.0	0.0	0.0090	0.1458	0.0000	0.0000
D	142.500	0.00	180.0	0.0	0.0090	0.1458	0.0000	0.0000
D	142.500	0.00	180.0	0.0	0.0096	0.2944	0.0000	0.0000
D	138.250	0.00	180.0	0.0	0.0096	0.2944	0.0000	0.0000
D	138.250	0.00	180.0	0.0	0.0099	0.2148	0.0000	0.0000
D	125.417	0.00	180.0	0.0	0.0099	0.2148	0.0000	0.0000
D	125.417	0.00	180.0	0.0	0.0106	0.2356	0.0000	0.0000
D	112.583	0.00	180.0	0.0	0.0106	0.2356	0.0000	0.0000
D	112.583	0.00	180.0	0.0	0.0112	0.2562	0.0000	0.0000
D	99.750	0.00	180.0	0.0	0.0112	0.2562	0.0000	0.0000
D	99.750	0.00	180.0	0.0	0.0116	0.4544	0.0000	0.0000
D	94.250	0.00	180.0	0.0	0.0116	0.4544	0.0000	0.0000
D	94.250	0.00	180.0	0.0	0.0118	0.2812	0.0000	0.0000
D	80.583	0.00	180.0	0.0	0.0118	0.2812	0.0000	0.0000
D	80.583	0.00	180.0	0.0	0.0122	0.3024	0.0000	0.0000
D	66.917	0.00	180.0	0.0	0.0122	0.3024	0.0000	0.0000
D	66.917	0.00	180.0	0.0	0.0125	0.3230	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0125	0.3230	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0126	0.5738	0.0000	0.0000
D	46.250	0.00	180.0	0.0	0.0126	0.5738	0.0000	0.0000
D	46.250	0.00	180.0	0.0	0.0125	0.3469	0.0000	0.0000
D	11.563	0.00	180.0	0.0	0.0116	0.3758	0.0000	0.0000
D	11.563	0.00	180.0	0.0	0.0115	0.3836	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0115	0.3836	0.0000	0.0000

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LOADING CONDITION AK

Seismic - Azimuth: 0° (1.2 D + 1.0 Ev + 1.0 Eh)

LOADS ON POLE

LOAD TYPE	ELEV ft	APPLY. RADIUS ft	LOAD. AZI	AT AZIFORCES.....	MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	185.000	0.00	0.0	0.0	0.0010	0.0173	0.0000	0.0000
C	184.000	0.00	0.0	0.0	0.2591	4.7329	0.0000	0.0000
C	184.000	0.00	0.0	0.0	0.0778	1.4214	0.0000	0.0000
C	175.000	0.00	0.0	0.0	0.0009	0.0173	0.0000	0.0000
C	169.000	0.00	0.0	0.0	0.2597	5.6230	0.0000	0.0000
C	169.000	0.00	0.0	0.0	0.0603	1.3056	0.0000	0.0000
C	165.000	0.00	0.0	0.0	0.0008	0.0173	0.0000	0.0000
C	163.620	0.00	0.0	0.0	0.1681	3.8837	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.2299	5.6230	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.0502	1.2283	0.0000	0.0000
C	155.000	0.00	0.0	0.0	0.0007	0.0173	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0006	0.0173	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0005	0.0173	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0004	0.0173	0.0000	0.0000
C	118.380	0.00	0.0	0.0	0.1821	8.0375	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0004	0.0173	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0003	0.0173	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0003	0.0173	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0002	0.0173	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0002	0.0173	0.0000	0.0000
C	73.000	0.00	0.0	0.0	0.1004	11.6522	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0001	0.0173	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0001	0.0173	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0001	0.0173	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0000	0.0173	0.0000	0.0000
C	26.620	0.00	0.0	0.0	0.0165	14.3937	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0000	0.0173	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0000	0.0173	0.0000	0.0000
D	189.000	0.00	180.0	180.0	0.0000	0.0000	0.0000	0.0000
D	0.000	0.00	180.0	180.0	0.0000	0.0000	0.0000	0.0000

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LOADING CONDITION AL

Seismic - Azimuth: 0° (0.9 D - 1.0 Ev + 1.0 Eh)

LOADS ON POLE

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LOAD TYPE	ELEV ft	APPLY. RADIUS ft	LOAD AT AZI	LOAD AZI	FORCES		MOMENTS	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	185.000	0.00	0.0	0.0	0.0010	0.0121	0.0000	0.0000
C	184.000	0.00	0.0	0.0	0.2591	3.2954	0.0000	0.0000
C	184.000	0.00	0.0	0.0	0.0778	0.9898	0.0000	0.0000
C	175.000	0.00	0.0	0.0	0.0009	0.0121	0.0000	0.0000
C	169.000	0.00	0.0	0.0	0.2597	3.9152	0.0000	0.0000
C	169.000	0.00	0.0	0.0	0.0603	0.9090	0.0000	0.0000
C	165.000	0.00	0.0	0.0	0.0008	0.0121	0.0000	0.0000
C	163.620	0.00	0.0	0.0	0.1681	2.7042	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.2299	3.9152	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.0502	0.8553	0.0000	0.0000
C	155.000	0.00	0.0	0.0	0.0007	0.0121	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0006	0.0121	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0005	0.0121	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0004	0.0121	0.0000	0.0000
C	118.380	0.00	0.0	0.0	0.1821	5.5964	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0004	0.0121	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0003	0.0121	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0003	0.0121	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0002	0.0121	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0002	0.0121	0.0000	0.0000
C	73.000	0.00	0.0	0.0	0.1004	8.1132	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0001	0.0121	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0001	0.0121	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0001	0.0121	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0000	0.0121	0.0000	0.0000
C	26.620	0.00	0.0	0.0	0.0165	10.0221	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0000	0.0121	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0000	0.0121	0.0000	0.0000
D	189.000	0.00	180.0	180.0	0.0000	0.0000	0.0000	0.0000
D	0.000	0.00	180.0	180.0	0.0000	0.0000	0.0000	0.0000

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190' Monopole / CK Columbia, KY

MAXIMUM POLE DEFORMATIONS CALCULATED(w.r.t. wind direction)

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MAST ELEV ft	DEFLECTIONS (ft)			ROTATIONS (deg)		
	HORIZONTAL ALONG	ACROSS	DOWN	TILT ALONG	ACROSS	TWIST
189.0	18.88D	-0.07E	2.68F	11.52D	-0.03E	0.00N
173.5	15.90D	-0.06E	2.08F	11.34D	-0.03E	0.00N
158.0	13.03D	-0.05E	1.53F	10.57D	-0.03E	0.00N
142.5	10.42D	-0.04E	1.08F	9.21D	-0.03E	0.00N
138.2	9.76D	-0.04E	0.97F	8.92D	-0.03E	0.00N
125.4	7.91D	-0.04E	0.70F	7.95D	-0.03E	0.00N
112.6	6.27D	-0.03E	0.49F	6.98D	-0.03E	0.00N
99.7	4.83D	-0.02E	0.33I	6.03D	-0.03E	0.00B
94.2	4.27D	-0.02E	0.27I	5.64D	-0.02E	0.00B
80.6	3.06D	-0.01E	0.16I	4.65D	-0.02E	0.00B
66.9	2.06D	-0.01E	0.09I	3.73D	-0.02E	0.00C
53.2	1.28D	-0.01E	0.04I	2.88D	-0.01E	0.00C
46.2	0.95D	0.00E	0.03I	2.47D	-0.01E	0.00C
34.7	0.52D	0.00E	0.01I	1.79D	-0.01E	0.00C
23.1	0.23D	0.00E	0.00I	1.16D	-0.01E	0.00C

11.6	0.06D	0.00E	0.00I	0.56D	0.00E	0.00C
0.0	0.00A	0.00A	0.00A	0.00A	0.00A	0.00A

MAXIMUM POLE FORCES CALCULATED(w.r.t. to wind direction)

MAST ELEV ft	TOTAL AXIAL kip	SHEAR.w.r.t. ALONG kip	WIND.DIR ACROSS kip	MOMENT.w.r.t. ALONG ft-kip	WIND.DIR ACROSS ft-kip	TORSION ft-kip
189.0	0.01 o	0.00 o	0.00 L	-0.01 W	0.01 L	0.00 L
173.5	12.69 Y	8.59 U	0.00 L	-97.87 C	0.02 E	0.03 L
158.0	40.58 AC	24.56 Q	0.00 L	-356.24 C	0.15 L	0.10 L
142.5	42.90 AI	25.44 N	-0.01 O	-789.55 D	0.29 L	0.23 L
138.2	44.15 AJ	25.86 M	0.10 K	-910.74 C	-0.50 K	0.30 L
125.4	46.94 AI	26.69 D	-0.15 E	-1285.90 F	2.19 E	-0.35 N
112.6	50.02 AJ	27.58 L	-0.13 E	-1671.66 F	3.91 E	-0.46 N
99.7	53.33 AJ	28.54 F	-0.14 E	-2068.38 F	5.77 E	-0.58 N
94.2	55.86 AJ	28.95 F	-0.22 E	-2241.76 F	6.93 E	-0.61 N
80.6	59.73 AJ	30.06 Q	-0.24 C	-2681.37 D	9.95 E	-0.61 N
66.9	63.89 AJ	31.16 T	-0.26 C	-3132.87 D	13.07 E	-0.68 B
53.2	68.36 AJ	32.34 T	-0.26 C	-3595.56 D	16.20 E	-0.76 C
46.2	72.38 AJ	32.97 M	-0.24 E	-3836.45 D	17.90 E	-0.82 C
34.7	76.50 AJ	33.98 M	-0.23 C	-4240.65 D	20.41 E	-0.90 C
23.1	80.71 AJ	34.94 M	-0.24 C	-4651.22 D	23.08 E	-0.95 C
11.6	85.03 AJ	35.84 M	-0.23 C	-5067.17 D	25.67 E	-0.98 C
base reaction	89.46 AJ	36.74 M	-0.24 C	-5487.94 D	28.29 E	-0.99 C

COMPLIANCE WITH 4.8.2 & 4.5.4

ELEV ft	AXIAL	BENDING	SHEAR + TORSIONAL	TOTAL SATISFIED	D/t(w/t)	MAX ALLOWED
189.00	0.000	0.00U	0.000	0.00L	YES	10.78A
	0.01Y	0.19C	0.01U	0.20C	YES	13.44A

173.50	0.01AC	0.19F	0.01Q	0.20F	YES	13.44A	45.2
	0.03AC	0.50C	0.03Q	0.51C	YES	16.09A	45.2
158.00	0.03AI	0.50C	0.03W	0.51C	YES	16.09A	45.2
	0.03AI	0.86D	0.03W	0.88D	YES	18.74A	45.2
142.50	0.02AJ	0.56A	0.02M	0.57H	YES	12.38A	45.2
	0.02AJ	0.60C	0.02M	0.61C	YES	12.86A	45.2
138.25	0.02AI	0.62C	0.02D	0.63C	YES	12.62A	45.2
	0.02AI	0.71F	0.02D	0.72F	YES	14.09A	45.2
125.42	0.02AJ	0.71F	0.02L	0.72F	YES	14.09A	45.2
	0.02AJ	0.77F	0.02L	0.77F	YES	15.55A	45.2
112.58	0.02AJ	0.77F	0.02F	0.77F	YES	15.55A	45.2
	0.02AJ	0.81F	0.02F	0.82F	YES	17.02A	45.2
99.75	0.02AJ	0.81F	0.02F	0.82F	YES	17.02A	45.2
	0.02AJ	0.82F	0.02F	0.83F	YES	17.64A	45.2
94.25	0.02AJ	0.85F	0.02Q	0.86F	YES	17.29A	45.2
	0.02AJ	0.88D	0.02Q	0.89D	YES	18.85A	45.2
80.58	0.02AJ	0.88D	0.02T	0.89D	YES	18.85A	45.2
	0.02AJ	0.91D	0.02T	0.92D	YES	20.41A	45.2
66.92	0.02AJ	0.91D	0.02T	0.92D	YES	20.41A	45.2
	0.02AJ	0.92D	0.02T	0.93D	YES	21.97A	45.2
53.25	0.02AJ	0.92D	0.02M	0.93D	YES	21.97A	45.2
	0.02AJ	0.93D	0.02M	0.94D	YES	22.77A	45.2
46.25	0.02AJ	0.95D	0.02M	0.97D	YES	22.41A	45.2
	0.02AJ	0.96D	0.02M	0.98D	YES	23.73A	45.2
34.69	0.02AJ	0.96D	0.02M	0.98D	YES	23.73A	45.2
	0.02AJ	0.97D	0.02M	0.98D	YES	25.05A	45.2
23.12	0.02AJ	0.97D	0.02M	0.98D	YES	25.05A	45.2
	0.02AJ	0.98D	0.02M	0.99D	YES	26.37A	45.2
11.56	0.02AJ	0.98D	0.02M	0.99D	YES	26.37A	45.2
	0.02AJ	0.99D	0.02M	1.00D	YES	27.69A	45.2
0.00							

MAXIMUM LOADS ONTO FOUNDATION(w.r.t. wind direction)

DOWN	SHEAR.w.r.t.WIND.DIR		MOMENT.w.r.t.WIND.DIR		TORSION
kip	ALONG	ACROSS	ALONG	ACROSS	ft-kip
	kip	kip	ft-kip	ft-kip	
89.46	36.74	-0.24	-5487.94	28.29	-0.99
AJ	M	C	D	E	C

(USA 222-H) - Monopole Spatial Analysis (c)2017 Guymast Inc.

Te1:(416)736-7453 Fax:(416)736-4372 web:www.guymast.com

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Sabre Towers and Poles on: 4 may 2022 at: 10:53:06

190' Monopole / CK Columbia, KY

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

* Only 1 condition(s) shown in full
 * RRUs/TMAs were assumed to be behind antennas
 * Some concentrated wind loads may have been derived from full-scale wind tunnel testing

LOADING CONDITION A =====

60 mph wind with no ice. wind Azimuth: 0° (1.0 D + 1.0 Wo)

LOADS ON POLE
 =====

LOAD TYPE	ELEV ft	APPLY. RADIUS ft	LOAD. AZI	AT AZIFORCES.....	MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	185.000	0.00	0.0	0.0	0.0088	0.0140	0.0000	0.0000
C	184.000	0.00	0.0	0.0	0.0000	1.1482	0.0000	0.0000
C	184.000	0.00	0.0	0.0	2.2951	3.8230	0.0000	0.0000
C	175.000	0.00	0.0	0.0	0.0087	0.0140	0.0000	0.0000
C	169.000	0.00	0.0	0.0	0.0000	1.0546	0.0000	0.0000
C	169.000	0.00	0.0	0.0	2.2348	4.5420	0.0000	0.0000
C	165.000	0.00	0.0	0.0	0.0086	0.0140	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.0000	0.9922	0.0000	0.0000
C	159.000	0.00	0.0	0.0	2.2064	4.5420	0.0000	0.0000
C	155.000	0.00	0.0	0.0	0.0085	0.0140	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0084	0.0140	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0083	0.0140	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0081	0.0140	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0080	0.0140	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0078	0.0140	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0077	0.0140	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0075	0.0140	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0073	0.0140	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0071	0.0140	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0068	0.0140	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0066	0.0140	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0062	0.0140	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0058	0.0140	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0052	0.0140	0.0000	0.0000
D	189.000	0.00	180.0	0.0	0.0122	0.0505	0.0000	0.0000
D	173.500	0.00	180.0	0.0	0.0122	0.0505	0.0000	0.0000
D	173.500	0.00	180.0	0.0	0.0143	0.0606	0.0000	0.0000
D	158.000	0.00	180.0	0.0	0.0143	0.0606	0.0000	0.0000
D	158.000	0.00	180.0	0.0	0.0163	0.0706	0.0000	0.0000
D	142.500	0.00	180.0	0.0	0.0163	0.0706	0.0000	0.0000
D	142.500	0.00	180.0	0.0	0.0176	0.1905	0.0000	0.0000
D	138.250	0.00	180.0	0.0	0.0176	0.1905	0.0000	0.0000
D	138.250	0.00	180.0	0.0	0.0183	0.1218	0.0000	0.0000
D	125.417	0.00	180.0	0.0	0.0183	0.1218	0.0000	0.0000
D	125.417	0.00	180.0	0.0	0.0197	0.1343	0.0000	0.0000
D	112.583	0.00	180.0	0.0	0.0197	0.1343	0.0000	0.0000
D	112.583	0.00	180.0	0.0	0.0211	0.1467	0.0000	0.0000
D	99.750	0.00	180.0	0.0	0.0211	0.1467	0.0000	0.0000
D	99.750	0.00	180.0	0.0	0.0219	0.3087	0.0000	0.0000
D	94.250	0.00	180.0	0.0	0.0219	0.3087	0.0000	0.0000
D	94.250	0.00	180.0	0.0	0.0223	0.1624	0.0000	0.0000
D	80.583	0.00	180.0	0.0	0.0223	0.1624	0.0000	0.0000
D	80.583	0.00	180.0	0.0	0.0233	0.1757	0.0000	0.0000
D	66.917	0.00	180.0	0.0	0.0233	0.1757	0.0000	0.0000
D	66.917	0.00	180.0	0.0	0.0240	0.1890	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0240	0.1890	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0243	0.3954	0.0000	0.0000
D	46.250	0.00	180.0	0.0	0.0243	0.3954	0.0000	0.0000
D	46.250	0.00	180.0	0.0	0.0240	0.2054	0.0000	0.0000
D	34.688	0.00	180.0	0.0	0.0240	0.2054	0.0000	0.0000
D	34.688	0.00	180.0	0.0	0.0237	0.2167	0.0000	0.0000
D	23.125	0.00	180.0	0.0	0.0237	0.2167	0.0000	0.0000
D	23.125	0.00	180.0	0.0	0.0225	0.2280	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0226	0.2393	0.0000	0.0000

=====

MAXIMUM POLE DEFORMATIONS CALCULATED(w.r.t. wind direction)

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MAST ELEV ftDEFLECTIONS (ft).....		ROTATIONS (deg).....		
	HORIZONTAL ALONG	ACROSS	DOWN	TILT ALONG	ACROSS	TWIST
189.0	5.66F	-0.01C	0.24F	3.40F	-0.01C	0.00C
173.5	4.75F	-0.01C	0.19F	3.35F	-0.01C	0.00C
158.0	3.87F	-0.01C	0.14F	3.11F	-0.01C	0.00C
142.5	3.08F	-0.01C	0.10F	2.71F	-0.01C	0.00C
138.2	2.89F	-0.01C	0.09F	2.62F	-0.01C	0.00C

125.4	2.33F	-0.01C	0.06F	2.33F	-0.01C	0.00C
112.6	1.84F	-0.01C	0.04F	2.04F	-0.01C	0.00C
99.7	1.42F	0.00C	0.03F	1.77F	0.00C	0.00C
94.2	1.25F	0.00C	0.03F	1.65F	0.00C	0.00C
80.6	0.90F	0.00C	0.02F	1.36F	0.00C	0.00C
66.9	0.60F	0.00C	0.01F	1.09F	0.00C	0.00C
53.2	0.37F	0.00C	0.00F	0.84F	0.00C	0.00C
46.2	0.28F	0.00C	0.00F	0.72F	0.00C	0.00C
34.7	0.15F	0.00C	0.00F	0.52F	0.00C	0.00C
23.1	0.07F	0.00C	0.00F	0.34F	0.00C	0.00C
11.6	0.02F	0.00C	0.00F	0.16F	0.00C	0.00C
0.0	0.00A	0.00A	0.00A	0.00A	0.00A	0.00A

MAXIMUM POLE FORCES CALCULATED(w.r.t. to wind direction)

MAST ELEV ft	TOTAL AXIAL kip	SHEAR.w.r.t.WIND.DIR ALONG kip	WIND.DIR ACROSS kip	MOMENT.w.r.t.WIND.DIR ALONG ft-kip	WIND.DIR ACROSS ft-kip	TORSION ft-kip
189.0	0.00 I	0.00 I	0.00 B	0.00 I	0.00 I	0.00 I
173.5	5.78 I	2.50 D	0.00 B	-29.04 K	0.01 H	0.00 H
158.0	17.86 E	7.17 E	0.00 E	-105.42 K	0.03 H	-0.01 C
142.5	18.99 E	7.44 B	0.00 I	-232.92 K	0.06 H	-0.02 C
138.2	19.80 F	7.56 D	0.02 L	-268.50 I	0.07 H	-0.03 C
125.4	21.38 D	7.79 E	-0.02 C	-378.02 F	0.29 H	-0.05 C
112.6	23.13 B	8.07 E	-0.04 C	-490.56 E	0.72 C	-0.08 C
99.7	25.02 D	8.35 E	-0.04 C	-605.98 F	1.25 C	-0.10 C
94.2	26.74 D	8.48 C	-0.03 C	-656.41 F	1.43 C	-0.11 C
80.6	28.97 D	8.80 F	-0.04 C	-784.41 F	1.91 C	-0.14 C
66.9	31.38 D	9.13 F	-0.03 C	-915.68 F	2.33 C	-0.16 C
53.2	33.99 B	9.47 F	-0.03 C	-1050.25 F	2.77 C	-0.17 C
46.2	36.76 B	9.64 F	-0.04 C	-1120.46 F	3.02 C	-0.18 C
34.7	39.16 B	9.93 F	-0.04 C	-1238.31 F	3.48 C	-0.19 C
23.1	41.68 B	10.21 F	-0.04 C	-1358.16 F	3.97 C	-0.19 C
11.6	44.36 B	10.47 F	-0.04 C	-1479.83 F	4.48 C	-0.20 C

47.10 B 10.73 F -0.05 C -1603.13 F 5.00 C -0.20 C

base
reaction 47.10 B -10.73 F 0.05 C 1603.13 F -5.00 C 0.20 C

COMPLIANCE WITH 4.8.2 & 4.5.4

ELEV ft	AXIAL	BENDING	SHEAR + TORSIONAL	TOTAL	SATISFIED	D/t(w/t)	MAX ALLOWED
189.00	0.00I	0.00I	0.00I	0.00I	YES	10.78A	45.2
173.50	0.00I	0.06K	0.00D	0.06K	YES	13.44A	45.2
158.00	0.01E	0.15K	0.01B	0.16K	YES	16.09A	45.2
142.50	0.01E	0.25K	0.01B	0.27K	YES	18.74A	45.2
138.25	0.01F	0.16E	0.01D	0.17E	YES	12.38A	45.2
125.42	0.01D	0.18I	0.01D	0.18I	YES	12.86A	45.2
112.58	0.01D	0.18F	0.01E	0.19F	YES	12.62A	45.2
99.75	0.01D	0.21F	0.01E	0.22F	YES	14.09A	45.2
94.25	0.01B	0.21F	0.01E	0.22F	YES	14.09A	45.2
80.58	0.01B	0.22E	0.01E	0.23F	YES	15.55A	45.2
66.92	0.01D	0.22F	0.01F	0.23F	YES	15.55A	45.2
53.25	0.01D	0.24F	0.01F	0.24F	YES	17.02A	45.2
46.25	0.01D	0.24E	0.01C	0.24E	YES	17.02A	45.2
34.69	0.01D	0.24F	0.01C	0.25F	YES	17.64A	45.2
23.12	0.01D	0.25F	0.01F	0.26F	YES	17.29A	45.2
11.56	0.01D	0.26F	0.00F	0.27F	YES	18.85A	45.2
0.00	0.01D	0.26F	0.00F	0.27F	YES	18.85A	45.2
	0.01D	0.26F	0.00F	0.27F	YES	20.41A	45.2
	0.01B	0.26F	0.00F	0.27F	YES	20.41A	45.2
	0.01B	0.27F	0.00F	0.28F	YES	21.97A	45.2
	0.01B	0.27F	0.00F	0.28F	YES	21.97A	45.2
	0.01B	0.27F	0.00F	0.28F	YES	22.77A	45.2
	0.01B	0.28F	0.00F	0.29F	YES	22.41A	45.2
	0.01B	0.28F	0.00F	0.29F	YES	23.73A	45.2
	0.01B	0.28F	0.00F	0.29F	YES	23.73A	45.2
	0.01B	0.28F	0.00F	0.29F	YES	25.05A	45.2
	0.01B	0.28F	0.00F	0.29F	YES	25.05A	45.2
	0.01B	0.29F	0.00F	0.30F	YES	26.37A	45.2
	0.01B	0.29F	0.00F	0.30F	YES	26.37A	45.2
	0.01B	0.29F	0.00F	0.30F	YES	27.69A	45.2

MAXIMUM LOADS ONTO FOUNDATION(w.r.t. wind direction)

DOWN kip	SHEAR.w.r.t.WIND.DIR ALONG kip	ACROSS kip	MOMENT.w.r.t.WIND.DIR ALONG ft-kip	ACROSS ft-kip	TORSION ft-kip
47.10 B	10.73 F	-0.05 C	-1603.13 F	5.00 C	-0.20 C

Seismic Load Effects
Equivalent Lateral Force Procedure
ANSI/TIA-222-H

Parameters	Description	h _i (ft.)	w _i (kips)	Vertical Distribution of Seismic Forces					1.2 D + 1.0 E _v	0.9 D - 1.0 E _v
				W _{ii} (kips)	w/h ^{ke}	F _{vi} or E _{vi}	E _v (kips)	(kips)		
	Step Bolts/Safety Climb Load	185.00	0.0140	0.0000	479.1500	0.0010	0.0005	0.0173	0.0121	
	Line Deadload	184.00	1.1482	0.0000	38,873.4592	0.0778	0.0436	1.4214	0.9898	
	Mount/Antenna Load	184.00	3.8230	3.8230	129,431.4880	0.2591	0.1453	4.7329	3.2954	
	Step Bolts/Safety Climb Load	175.00	0.0140	0.0000	428.7500	0.0009	0.0005	0.0173	0.0121	
	Line Deadload	169.00	1.0546	0.0000	30,120.4306	0.0603	0.0401	1.3056	0.9090	
	Mount/Antenna Load	169.00	4.5420	4.5420	129,724.0620	0.2597	0.1726	5.6230	3.9152	
	Step Bolts/Safety Climb Load	165.00	0.0140	0.0000	381.1500	0.0008	0.0005	0.0173	0.0121	
	Structure - Section 1	163.62	3.1371	0.0000	83,984.8865	0.1681	0.1192	3.8837	2.7042	
	Line Deadload	159.00	0.9922	0.0000	25,083.8082	0.0502	0.0377	1.2283	0.8553	
	Mount/Antenna Load	159.00	4.5420	4.5420	114,826.3020	0.2299	0.1726	5.6230	3.9152	
	Step Bolts/Safety Climb Load	155.00	0.0140	0.0000	336.3500	0.0007	0.0005	0.0173	0.0121	
	Step Bolts/Safety Climb Load	145.00	0.0140	0.0000	294.3500	0.0006	0.0005	0.0173	0.0121	
	Step Bolts/Safety Climb Load	135.00	0.0140	0.0000	255.1500	0.0005	0.0005	0.0173	0.0121	
	Step Bolts/Safety Climb Load	125.00	0.0140	0.0000	218.7500	0.0004	0.0005	0.0173	0.0121	
	Structure - Section 2	118.38	6.4923	0.0000	90,981.9522	0.1821	0.2467	8.0375	5.5964	
	Step Bolts/Safety Climb Load	115.00	0.0140	0.0000	185.1500	0.0004	0.0005	0.0173	0.0121	
	Step Bolts/Safety Climb Load	105.00	0.0140	0.0000	154.3500	0.0003	0.0005	0.0173	0.0121	
	Step Bolts/Safety Climb Load	95.00	0.0140	0.0000	126.3500	0.0003	0.0005	0.0173	0.0121	
	Step Bolts/Safety Climb Load	85.00	0.0140	0.0000	101.1500	0.0002	0.0005	0.0173	0.0121	
	Step Bolts/Safety Climb Load	75.00	0.0140	0.0000	78.7500	0.0002	0.0005	0.0173	0.0121	
	Structure - Section 3	73.00	9.4121	0.0000	50,157.0809	0.1004	0.3577	11.6522	8.1132	
	Step Bolts/Safety Climb Load	65.00	0.0140	0.0000	59.1500	0.0001	0.0005	0.0173	0.0121	
	Step Bolts/Safety Climb Load	55.00	0.0140	0.0000	42.3500	0.0001	0.0005	0.0173	0.0121	
	Step Bolts/Safety Climb Load	45.00	0.0140	0.0000	28.3500	0.0001	0.0005	0.0173	0.0121	
	Step Bolts/Safety Climb Load	35.00	0.0140	0.0000	17.1500	0.0000	0.0005	0.0173	0.0121	
	Structure - Section 4	26.62	11.6266	0.0000	8,238.8924	0.0165	0.4418	14.3937	10.0221	
	Step Bolts/Safety Climb Load	25.00	0.0140	0.0000	8.7500	0.0000	0.0005	0.0173	0.0121	
	Step Bolts/Safety Climb Load	15.00	0.0140	0.0000	3.1500	0.0000	0.0005	0.0173	0.0121	
	Σ		47.02	12.9070	704,620.66	1.41	1.79	58.21	40.53	

Seismic Design Category C

Round Base Plate and Anchor Rods, per ANSI/TIA 222-H

Pole Data

Diameter:	60.880	in (flat to flat)
Thickness:	0.375	in
Yield (Fy):	65	ksi
# of Sides:	18	"0" IF Round
Strength (Fu):	80	ksi

Reactions

Moment, Mu:	5487.94	ft-kips
Axial, Pu:	56.57	kips
Shear, Vu:	36.63	kips

Anchor Rod Data

Quantity:	18	
Diameter:	2.25	in
Rod Material:	A615	
Strength (Fu):	100	ksi
Yield (Fy):	75	ksi
BC Diam. (in):	67.75	BC Override:

Plate Data

Diameter (in):	73.5	Dia. Override:
Thickness:	2	in
Yield (Fy):	50	ksi
Eff Width/Rod:	10.73	in
Drain Hole:	2.625	in. diameter
Drain Location:	28.25	in. center of pole to center of drain hole
Center Hole:	48.5	in. diameter

Anchor Rod Results

(per 4.9.9)

Maximum Put:	213.65 Kips
$\Phi_t^*R_{nt}$:	243.75 Kips
Vu:	2.04 Kips
$\Phi_v^*R_{nv}$:	149.10 Kips
Tension Interaction Ratio:	0.77
Maximum Puc:	219.15 Kips
$\Phi_c^*R_{nc}$:	268.39 Kips
Vu:	2.04 Kips
$\Phi_c^*R_{ncv}$:	120.77 Kips
Compression Interaction Ratio:	0.82
Maximum Interaction Ratio:	81.7% Pass

Base Plate Results

Base Plate (Mu/Z):	44.6 ksi
Allowable Φ^*F_y :	45.0 ksi (per AISC)
Base Plate Interaction Ratio:	99.2% Pass

MAT FOUNDATION DESIGN BY SABRE INDUSTRIES

190' Monopole APC TOWERS III, LLC CK Columbia, KY (503734) 05/04/22 DJH

Overall Loads:

Factored Moment (ft-kips)	5487.94
Factored Axial (kips)	56.57
Factored Shear (kips)	36.63
Bearing Design Strength (ksf)	7.5
Water Table Below Grade (ft)	999
Width of Mat (ft)	25
Thickness of Mat (ft)	2
Depth to Bottom of Slab (ft)	7
Quantity of Bolts in Bolt Circle	18
Bolt Circle Diameter (in)	67.75
Effective Anchor	
Bolt Embedment (in)	66.5
Diameter of Pier (ft)	8
Ht. of Pier Above Ground (ft)	0.5
Ht. of Pier Below Ground (ft)	5
Quantity of Bars in Mat	29
Bar Diameter in Mat (in)	1.27
Area of Bars in Mat (in ²)	36.74
Spacing of Bars in Mat (in)	10.45
Quantity of Bars Pier	54
Bar Diameter in Pier (in)	1.128
Tie Bar Diameter in Pier (in)	0.625
Spacing of Ties (in)	4
Area of Bars in Pier (in ²)	53.96
Spacing of Bars in Pier (in)	5.10
f'c (ksi)	4.5
fy (ksi)	60
Unit Wt. of Soil (kcf)	0.115
Unit Wt. of Concrete (kcf)	0.15

Max. Net Bearing Press. (ksf)	6.09
Allowable Bearing Pressure (ksf)	5.00
Safety Factor	2.00
Ultimate Bearing Pressure (ksf)	10.00
Bearing Φs	0.75

Minimum Pier Diameter (ft)	8.00
Equivalent Square b (ft)	7.09
Square Pier? (Y/N)	N

Recommended Spacing (in)	5 to 12
--------------------------	---------

Minimum Pier A _s (in ²)	36.19
Recommended Spacing (in)	5 to 12

Volume of Concrete (yd ³)	56.54
---------------------------------------	-------

Two-Way Shear Action:

Average d (in)	19.73
φv _c (ksi)	0.195
φv _c = φ(2 + 4/β _c)f' _c ^{1/2}	0.302
φv _c = φ(α _s d/b _o +2)f' _c ^{1/2}	0.195
φv _c = φ4f' _c ^{1/2}	0.201
Shear perimeter, b _o (in)	419.23
β _c	1

v _u (ksi)	0.101
----------------------	-------

J (in ³)	1.528E+07
c + d (in)	104.81
0.40M _{sc} (ft-kips)	2275.8

One-Way Shear:

φV _c (kips)	595.6
------------------------	-------

V _u (kips)	407.8
-----------------------	-------

Stability:

Overturning Design Strength (ft-k)	6824.1
------------------------------------	--------

Total Applied M (ft-k)	5762.7
------------------------	--------

Pier-Slab Transfer by Flexure:

b_{slab} (ft)	14.00		
ϕM_n (ft-kips)	3475.2	$0.60M_{sc}$ (ft-kips)	3413.6

Pier Design:

ϕV_n (kips)	1274.9	V_u (kips)	36.6
$\phi V_c = \phi 2(1 + N_u / (2000 A_g)) f'_c {}^{1/2} b_w d$	744.8		
V_s (kips)	706.9	$*** V_s \max = 4 f'_c {}^{1/2} b_w d$ (kips)	1978.3
Maximum Spacing (in)	7.62	(Only if Shear Ties are Required)	
Actual Hook Development (in)	18.46	Req'd Hook Development l_{dh} (in) - Tension	14.12
		Req'd Hook Development l_{dc} (in) - Compression	15.23

Flexure in Slab:

ϕM_n (ft-kips)	3102.9	M_u (ft-kips)	2746.1
a (in)	1.92		
Steel Ratio	0.00621		
β_1	0.825		
Maximum Steel Ratio (ρ_t)	0.0197		
Minimum Steel Ratio	0.0018		
Rebar Development in Pad (in)	99.00	Required Development in Pad (in)	34.08

Condition	1 is OK, 0 Fails
Maximum Soil Bearing Pressure	1
Pier Area of Steel	1
Pier Shear	1
Interaction Diagram	1
Two-Way Shear Action	1
One-Way Shear Action	1
Overturning	1
Flexure	1
Steel Ratio	1
Length of Development in Pad	1
Hook Development	1
Anchor Bolt Pullout	1
Anchor Bolt Punching Shear	1

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LPILE for windows, version 2019-11.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\Program Files (x86)\Ensoft\Lpile2019\files\

Name of input data file:
503734.lp11d

Name of output report file:
503734.lp11o

Name of plot output file:
503734.lp11p

Name of runtime message file:
503734.lp11r

Date and Time of Analysis

Date: May 4, 2022

Time: 11:23:33

Problem Title

Site : CK Columbia, KY

Tower : 190' Monopole

Prepared for : APC TOWERS III, LLC

Job Number : 503734

Engineer : DJH

Program Options and Settings

Computational Options:
- Conventional Analysis
Engineering Units Used for Data Input and Computations:
- US Customary System Units (pounds, feet, inches)

Analysis Control Options:
- Maximum number of iterations allowed = 999
- Deflection tolerance for convergence = 1.0000E-05 in
- Maximum allowable deflection = 100.0000 in
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected

- Analysis uses layering correction (Method of Georgiadis)
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected
- Input of moment resistance at the pile tip not selected
- Input of side resistance moment along pile not selected
- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:

- Output files use decimal points to denote decimal symbols.
- Report only summary tables of pile-head deflection, maximum bending moment, and maximum shear force in output report file.
- No p-y curves to be computed and reported for user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 21.500 ft
Depth of ground surface below top of pile = 0.5000 ft

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point No.	Depth Below Pile Head feet	Pile Diameter inches
1	0.000	96.0000
2	21.500	96.0000

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is a round drilled shaft, bored pile, or CIDH pile
Length of section = 21.500000 ft
Shaft Diameter = 96.000000 in
Shear capacity of section = 0.0000 lbs

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians
Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 4 layers

Layer 1 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 0.500000 ft
Distance from top of pile to bottom of layer = 3.500000 ft
Effective unit weight at top of layer = 110.000000 pcf
Effective unit weight at bottom of layer = 110.000000 pcf
Undrained cohesion at top of layer = 14.400000 psf
Undrained cohesion at bottom of layer = 14.400000 psf
Epsilon-50 at top of layer = 0.100000
Epsilon-50 at bottom of layer = 0.100000

Layer 2 is stiff clay without free water

Distance from top of pile to top of layer = 3.500000 ft
Distance from top of pile to bottom of layer = 7.000000 ft
Effective unit weight at top of layer = 120.000000 pcf
Effective unit weight at bottom of layer = 120.000000 pcf
Undrained cohesion at top of layer = 1250. psf
Undrained cohesion at bottom of layer = 1250. psf
Epsilon-50 at top of layer = 0.008000
Epsilon-50 at bottom of layer = 0.008000

Layer 3 is stiff clay without free water

Distance from top of pile to top of layer = 7.000000 ft
 Distance from top of pile to bottom of layer = 10.500000 ft
 Effective unit weight at top of layer = 120.000000 pcf
 Effective unit weight at bottom of layer = 120.000000 pcf
 Undrained cohesion at top of layer = 8000. psf
 Undrained cohesion at bottom of layer = 8000. psf
 Epsilon-50 at top of layer = 0.0001000
 Epsilon-50 at bottom of layer = 0.0001000

Layer 4 is stiff clay without free water

Distance from top of pile to top of layer = 10.500000 ft
 Distance from top of pile to bottom of layer = 24.000000 ft
 Effective unit weight at top of layer = 150.000000 pcf
 Effective unit weight at bottom of layer = 150.000000 pcf
 Undrained cohesion at top of layer = 8000. psf
 Undrained cohesion at bottom of layer = 8000. psf
 Epsilon-50 at top of layer = 0.0001000
 Epsilon-50 at bottom of layer = 0.0001000

(Depth of the lowest soil layer extends 2.500 ft below the pile tip)

**** Warning - Possible Input Data Error ****

Values entered for effective unit weights of soil were outside the limits of 20 pcf to 140 pcf.

The maximum input value, in layer 4, for effective unit weight = 150.00 pcf

This data may be erroneous. Please check your data.

 Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth ft	Effective Unit Wt. pcf	Cohesion psf	E50 or krm
1	Soft Clay	0.5000	110.0000	14.4000	0.10000
2	Stiff Clay w/o Free Water	3.5000	110.0000	14.4000	0.10000
3	Stiff Clay w/o Free Water	7.0000	120.0000	1250.	0.00800
4	Stiff Clay w/o Free Water	10.5000	120.0000	1250.	0.00800
4	Stiff Clay w/o Free Water	10.5000	150.0000	8000.	1.00E-04
4	Stiff Clay w/o Free Water	24.0000	150.0000	8000.	1.00E-04

 Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

 Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 2

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, lbs	Compute Top y vs. Pile Length	Run Analysis
1	1	V = 48840. lbs	M = 87807040. in-lbs	75427.	No	Yes
2	1	V = 10730. lbs	M = 19237560. in-lbs	47100.	No	Yes

V = shear force applied normal to pile axis
 M = bending moment applied to pile head
 y = lateral deflection normal to pile axis
 S = pile slope relative to original pile batter angle
 R = rotational stiffness applied to pile head
 Values of top y vs. pile lengths can be computed only for load types with specified shear loading (Load Types 1, 2, and 3).
 Thrust force is assumed to be acting axially for all pile batter angles.

 Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Dimensions and Properties of Drilled Shaft (Bored Pile):

Length of Section	=	21.500000	ft
Shaft Diameter	=	96.000000	in
Concrete Cover Thickness (to edge of long. rebar)	=	3.625000	in
Number of Reinforcing Bars	=	44	bars
Yield Stress of Reinforcing Bars	=	60000.	psi
Modulus of Elasticity of Reinforcing Bars	=	29000000.	psi
Gross Area of Shaft	=	7238.	sq. in.
Total Area of Reinforcing Steel	=	55.737823	sq. in.
Area Ratio of Steel Reinforcement	=	0.77	percent
Edge-to-Edge Bar Spacing	=	4.970752	in
Maximum Concrete Aggregate Size	=	0.750000	in
Ratio of Bar Spacing to Aggregate Size	=	6.63	
Offset of Center of Rebar Cage from Center of Pile	=	0.0000	in

Axial Structural Capacities:

Nom. Axial Structural Capacity = $0.85 F_c A_c + F_y A_s$	=	30817.300	kips
Tensile Load for cracking of concrete	=	-3348.733	kips
Nominal Axial Tensile Capacity	=	-3344.269	kips

Reinforcing Bar Dimensions and Positions Used in Computations:

Bar Number	Bar Diam. inches	Bar Area sq. in.	X inches	Y inches
1	1.270000	1.266769	43.740000	0.00000
2	1.270000	1.266769	43.294790	6.224851
3	1.270000	1.266769	41.968223	12.322982
4	1.270000	1.266769	39.787303	18.170253
5	1.270000	1.266769	36.796430	23.647629
6	1.270000	1.266769	33.056486	28.643609
7	1.270000	1.266769	28.643609	33.056486
8	1.270000	1.266769	23.647629	36.796430
9	1.270000	1.266769	18.170253	39.787303
10	1.270000	1.266769	12.322982	41.968223
11	1.270000	1.266769	6.224851	43.294790
12	1.270000	1.266769	0.000000	43.740000
13	1.270000	1.266769	-6.224851	43.294790
14	1.270000	1.266769	-12.322982	41.968223
15	1.270000	1.266769	-18.170253	39.787303
16	1.270000	1.266769	-23.647629	36.796430
17	1.270000	1.266769	-28.643609	33.056486
18	1.270000	1.266769	-33.056486	28.643609
19	1.270000	1.266769	-36.796430	23.647629
20	1.270000	1.266769	-39.787303	18.170253
21	1.270000	1.266769	-41.968223	12.322982
22	1.270000	1.266769	-43.294790	6.224851
23	1.270000	1.266769	-43.740000	0.00000
24	1.270000	1.266769	-43.294790	-6.224851
25	1.270000	1.266769	-41.968223	-12.322982
26	1.270000	1.266769	-39.787303	-18.170253
27	1.270000	1.266769	-36.796430	-23.647629
28	1.270000	1.266769	-33.056486	-28.643609
29	1.270000	1.266769	-28.643609	-33.056486
30	1.270000	1.266769	-23.647629	-36.796430
31	1.270000	1.266769	-18.170253	-39.787303
32	1.270000	1.266769	-12.322982	-41.968223
33	1.270000	1.266769	-6.224851	-43.294790
34	1.270000	1.266769	0.000000	-43.740000
35	1.270000	1.266769	6.224851	-43.294790
36	1.270000	1.266769	12.322982	-41.968223
37	1.270000	1.266769	18.170253	-39.787303
38	1.270000	1.266769	23.647629	-36.796430
39	1.270000	1.266769	28.643609	-33.056486
40	1.270000	1.266769	33.056486	-28.643609
41	1.270000	1.266769	36.796430	-23.647629
42	1.270000	1.266769	39.787303	-18.170253
43	1.270000	1.266769	41.968223	-12.322982
44	1.270000	1.266769	43.294790	-6.224851

NOTE: The positions of the above rebars were computed by LPILE

Minimum spacing between any two bars not equal to zero = 4.971 inches between bars 15 and 16.

Ratio of bar spacing to maximum aggregate size = 6.63

Concrete Properties:

Compressive Strength of Concrete	=	4500.	psi
Modulus of Elasticity of Concrete	=	3823676.	psi
Modulus of Rupture of Concrete	=	-503.115295	psi
Compression Strain at Peak Stress	=	0.002001	
Tensile Strain at Fracture of Concrete	=	-0.0001152	

Maximum Coarse Aggregate Size

= 0.750000 in

Number of Axial Thrust Force Values Determined from Pile-head Loadings = 2

Number	Axial Thrust Force kips
1	47.100
2	75.427

Summary of Results for Nominal Moment Capacity for Section 1

Moment values interpolated at maximum compressive strain = 0.003 or maximum developed moment if pile fails at smaller strains.

Load No.	Axial Thrust kips	Nominal Mom. Cap. in-kip	Max. Comp. Strain
1	47.100	137483.946	0.00300000
2	75.427	138491.136	0.00300000

Note that the values of moment capacity in the table above are not factored by a strength reduction factor (phi-factor).

In ACI 318, the value of the strength reduction factor depends on whether the transverse reinforcing steel bars are tied hoops (0.65) or spirals (0.75).

The above values should be multiplied by the appropriate strength reduction factor to compute ultimate moment capacity according to ACI 318, or the value required by the design standard being followed.

The following table presents factored moment capacities and corresponding bending stiffnesses computed for common resistance factor values used for reinforced concrete sections.

Axial Load No.	Resist. Factor	Nominal Ax. Thrust kips	Nominal Moment Cap in-kips	Ult. (Fac) Ax. Thrust kips	Ult. (Fac) Moment Cap in-kips	Bend. Stiff. at Ult Mom kip-in ²
1	0.65	47.100000	137484.	30.615000	89365.	3.2524E+09
2	0.65	75.426667	138491.	49.027333	90019.	3.2792E+09
1	0.75	47.100000	137484.	35.325000	103113.	3.1350E+09
2	0.75	75.426667	138491.	56.570000	103868.	3.1621E+09
1	0.90	47.100000	137484.	42.390000	123736.	2.0438E+09
2	0.90	75.426667	138491.	67.884000	124642.	2.0642E+09

Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head ft	Equivalent Top Depth Below Grnd Surf ft	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer lbs	F1 Integral for Layer lbs
1	0.5000	0.00	N.A.	No	0.00	3018.
2	3.5000	0.1004	No	No	3018.	115805.
3	7.0000	0.6140	Yes	No	118824.	711851.
4	10.5000	4.1094	Yes	No	830675.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, lbs, and Load 2 = Moment, M, in-lbs
 Load Type 2: Load 1 = Shear, V, lbs, and Load 2 = Slope, S, radians
 Load Type 3: Load 1 = Shear, V, lbs, and Load 2 = Rot. Stiffness, R, in-lbs/rad.
 Load Type 4: Load 1 = Top Deflection, y, inches, and Load 2 = Moment, M, in-lbs
 Load Type 5: Load 1 = Top Deflection, y, inches, and Load 2 = Slope, S, radians

Load Case No.	Load Type 1	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading lbs	Pile-head Deflection inches	Pile-head Rotation radians	Max Shear in Pile lbs	Max Moment in Pile in-lbs
1	V, lb	48840.	M, in-lb	8.78E+07	75427.	0.5145	-0.00529	-934933.	9.12E+07

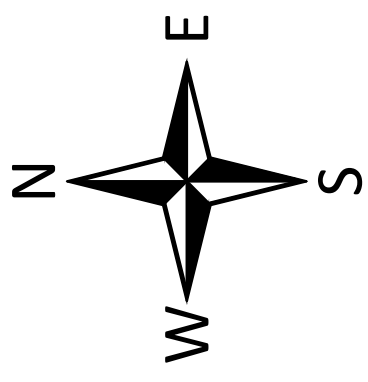
2 v, lb 10730. M, in-lb 1.92E+07 47100. 0.01335 -1.62E-04 -180523. 1.99E+07

Maximum pile-head deflection = 0.5145001130 inches
Maximum pile-head rotation = -0.0052858156 radians = -0.302855 deg.

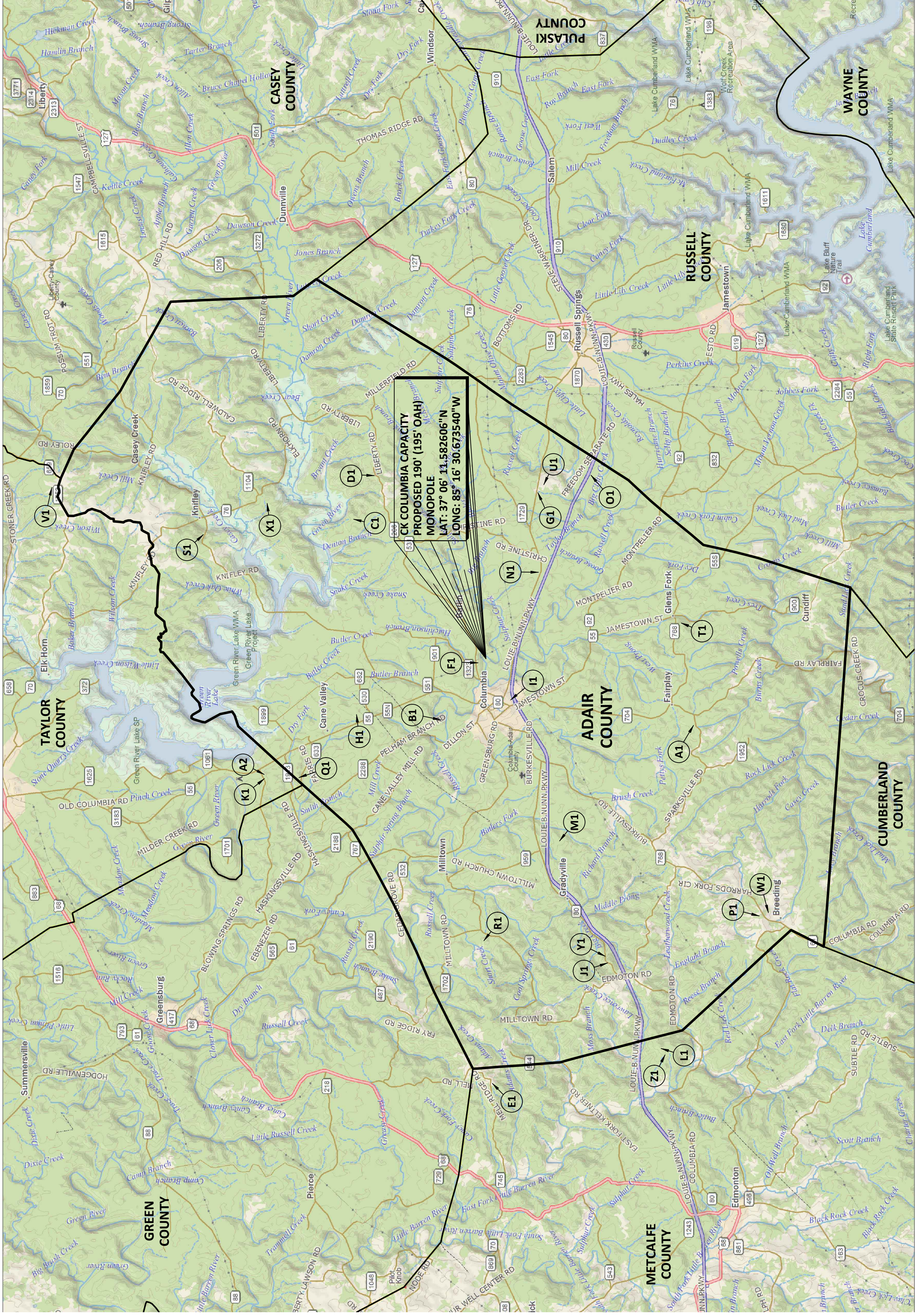
The analysis ended normally.

IBC 1807.3.2.1

Moment (ft·k)	5,487.94	
Shear (k)	36.63	
Caisson diameter (ft)	8	
Caisson height above ground (ft)	0.5	
Caisson height below ground (ft)	21	
Lateral soil pressure (lb/ft ²)	878.57	
Ground to application of force, h (ft)	150.32	
Applied lateral force, P (lb)	36,630	
Lateral soil bearing pressure, S ₁ (lb/ft)	6,150.00	
Diameter, b (ft)	8	
A	1.74	$= (2.34P)/(S_1 b)$
Minimum depth of embedment, d (ft)	17.79	$= 0.5A[1 + (1 + (4.36h / A))^{1/2}]$

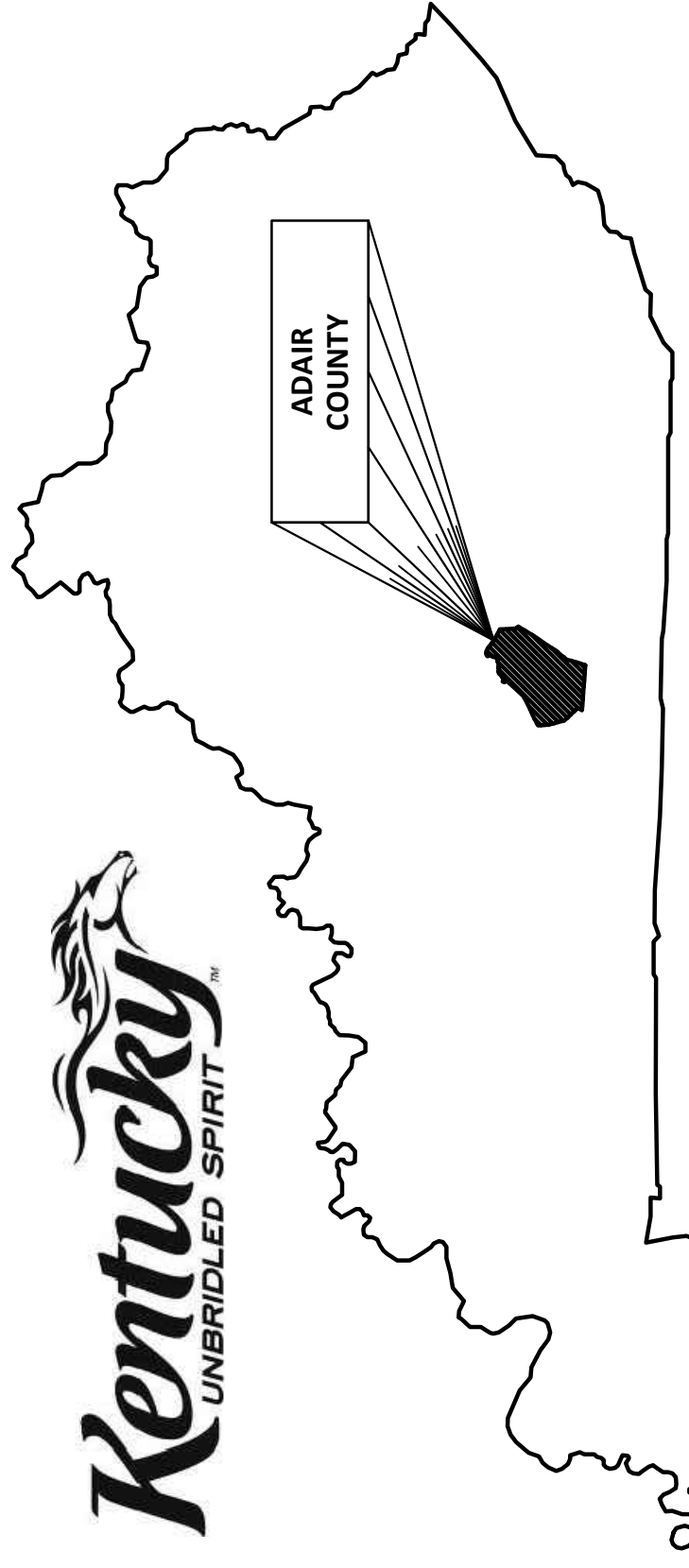


ADAIR COUNTY, KENTUCKY VERIZON WIRELESS SITE NAME: CK COLUMBIA CAPACITY



NOTE: TOWERS DEPICTED ARE ALL KNOWN TOWER SITES REGISTERED WITH THE FEDERAL COMMUNICATIONS COMMISSION IN ADAIR COUNTY, KENTUCKY.

USGS 7.5 MINUTE QUADRANGLE: COLUMBIA, KY



PREPARED FOR:

O1	FCC REGISTRATION #: 1257489 SBA TOWERS VII, LLC LAT: 37° 07' 07.2" N LONG: 85° 09' 49.2" W
P1	FCC REGISTRATION #: 1261657 CELCO PARTNERSHIP LAT: 36° 58' 11.8" N LONG: 85° 26' 00.6" W
Q1	FCC REGISTRATION #: 1268209 CELCO PARTNERSHIP LAT: 37° 11' 40.7" N LONG: 85° 20' 55.2" W
R1	FCC REGISTRATION #: 1272696 CELCO PARTNERSHIP LAT: 37° 06' 16.0" N LONG: 85° 26' 55.1" W
S1	FCC REGISTRATION #: 1274206 CELCO PARTNERSHIP LAT: 37° 14' 29.3" N LONG: 85° 11' 59.5" W
T1	FCC REGISTRATION #: 1278367 CELCO PARTNERSHIP LAT: 37° 00' 27.8" N LONG: 85° 15' 14.5" W
U1	FCC REGISTRATION #: 1298190 CELCO PARTNERSHIP LAT: 37° 04' 30.2" N LONG: 85° 10' 08.6" W
V1	FCC REGISTRATION #: 1306590 CELCO PARTNERSHIP LAT: 37° 18' 55.6" N LONG: 85° 10' 17.0" W
W1	FCC REGISTRATION #: 1311877 VERTICAL BRIDGE DEVELOPMENT, LLC LAT: 36° 57' 56.1" N LONG: 85° 25' 52.5" W
X1	FCC REGISTRATION #: 1311883 TILLMAN INFRASTRUCTURE, LLC LAT: 37° 12' 35.5" N LONG: 85° 10' 49.5" W
Y1	(GRANTED) FCC REGISTRATION #: 1317083 B&T GROUP, LLC LAT: 37° 02' 41.7" N LONG: 85° 27' 27.5" W
Z1	(GRANTED) FCC REGISTRATION #: 1319787 HARMONI TOWERS LLC LAT: 37° 00' 56.4" N LONG: 85° 31' 05.3" W
A2	(GRANTED) FCC REGISTRATION #: 1321708 HARMONI TOWERS LLC LAT: 37° 12' 40.8" N LONG: 85° 20' 46.2" W

EXISTING TOWER LEGEND

A1	FCC REGISTRATION #: 1041289 TEXAS EASTERN COMMUNICATIONS, LLC LAT: 37° 09' 01.0" N LONG: 85° 19' 01.0" W
B1	FCC REGISTRATION #: 1043061 CELCO PARTNERSHIP LAT: 37° 07' 32.0" N LONG: 85° 18' 48.0" W
C1	FCC REGISTRATION #: 1043197 SHORELINE COMMUNICATION, INC. LAT: 37° 10' 04.2" N LONG: 85° 11' 25.8" W
D1	FCC REGISTRATION #: 1044249 WESTERN KENTUCKY UNIVERSITY LAT: 37° 09' 29.0" N LONG: 85° 09' 50.0" W
E1	FCC REGISTRATION #: 1044821 COMMONWEALTH OF KENTUCKY dba = KY EMERGENCY WARNING SYSTEM NEWS LAT: 37° 06' 00.0" N LONG: 85° 32' 10.1" W
F1	FCC REGISTRATION #: 1044964 TRI COUNTY BROADCASTING CORPORATION dba = WAIN RADIO LAT: 37° 06' 26.2" N LONG: 85° 16' 41.9" W
G1	FCC REGISTRATION #: 1048811 SHORELINE COMMUNICATION INC. LAT: 37° 04' 40.6" N LONG: 85° 10' 27.6" W
H1	FCC REGISTRATION #: 1062332 AMERICAN TOWERS, LLC LAT: 37° 19' 59.9" N LONG: 85° 18' 37.2" W
I1	FCC REGISTRATION #: 1228813 SBA PROPERTIES, LLC LAT: 37° 05' 28.2" N LONG: 85° 18' 03.9" W
J1	FCC REGISTRATION #: 1242039 CELCO PARTNERSHIP LAT: 37° 02' 38.7" N LONG: 85° 27' 43.8" W
K1	FCC REGISTRATION #: 1243210 SBA INFRASTRUCTURES, LLC LAT: 37° 12' 42.6" N LONG: 85° 20' 58.8" W
L1	FCC REGISTRATION #: 1252869 SBA INFRASTRUCTURES, LLC LAT: 37° 01' 04.2" N LONG: 85° 30' 53.2" W
M1	FCC REGISTRATION #: 1254374 SBA TOWERS VII, LLC LAT: 37° 04' 02.8" N LONG: 85° 23' 14.7" W
N1	FCC REGISTRATION #: 1257173 SBA TOWERS VII, LLC LAT: 37° 04' 40.7" N LONG: 85° 13' 22.6" W

REVISIONS

REV.	DATE	DESCRIPTION
A	2.14.22	ISSUED FOR REVIEW

SITE INFORMATION:
CK COLUMBIA CAPACITY
 420 RIDGE CREST LANE
 COLUMBIA, KY 42728
 ADAIR COUNTY
 TAX PARCEL NUMBER:
 063-00-00-055.00
 PROPERTY OWNER:
 DAVID BOWMAN
 420 RIDGECREST LANE
 COLUMBIA, KY 42728
 SOURCE OF TITLE:
 DEED BOOK 340, PAGE 241

POD NUMBER: 22-121713
 DRAWN BY: DAP
 CHECKED BY: MEP
 SURVEY DATE: 9.1.21
 PLAT DATE: 2.14.22
 SHEET TITLE:
TOWER GRID MAP

SHEET NUMBER: (1 page)
C-1



Notice Criteria Tool

[Notice Criteria Tool - Desk Reference Guide V_2018.2.0](#)

The requirements for filing with the Federal Aviation Administration for proposed structures vary based on a number of factors: height, proximity to an airport, location, and frequencies emitted from the structure, etc. For more details, please reference [CFR Title 14 Part 77.9](#).

You must file with the FAA at least 45 days prior to construction if:

- your structure will exceed 200ft above ground level
- your structure will be in proximity to an airport and will exceed the slope ratio
- your structure involves construction of a traverseway (i.e. highway, railroad, waterway etc...) and once adjusted upward with the appropriate vertical distance would exceed a standard of 77.9(a) or (b)
- your structure will emit frequencies, and does not meet the conditions of the [FAA Co-location Policy](#)
- your structure will be in an instrument approach area and might exceed part 77 Subpart C
- your proposed structure will be in proximity to a navigation facility and may impact the assurance of navigation signal reception
- your structure will be on an airport or heliport
- filing has been requested by the FAA

If you require additional information regarding the filing requirements for your structure, please identify and contact the appropriate FAA representative using the [Air Traffic Areas of Responsibility map](#) for Off Airport construction, or contact the [FAA Airports Region / District Office](#) for On Airport construction.

The tool below will assist in applying Part 77 Notice Criteria.

Latitude:

Longitude:

Horizontal Datum:

Site Elevation (SE): (nearest foot)

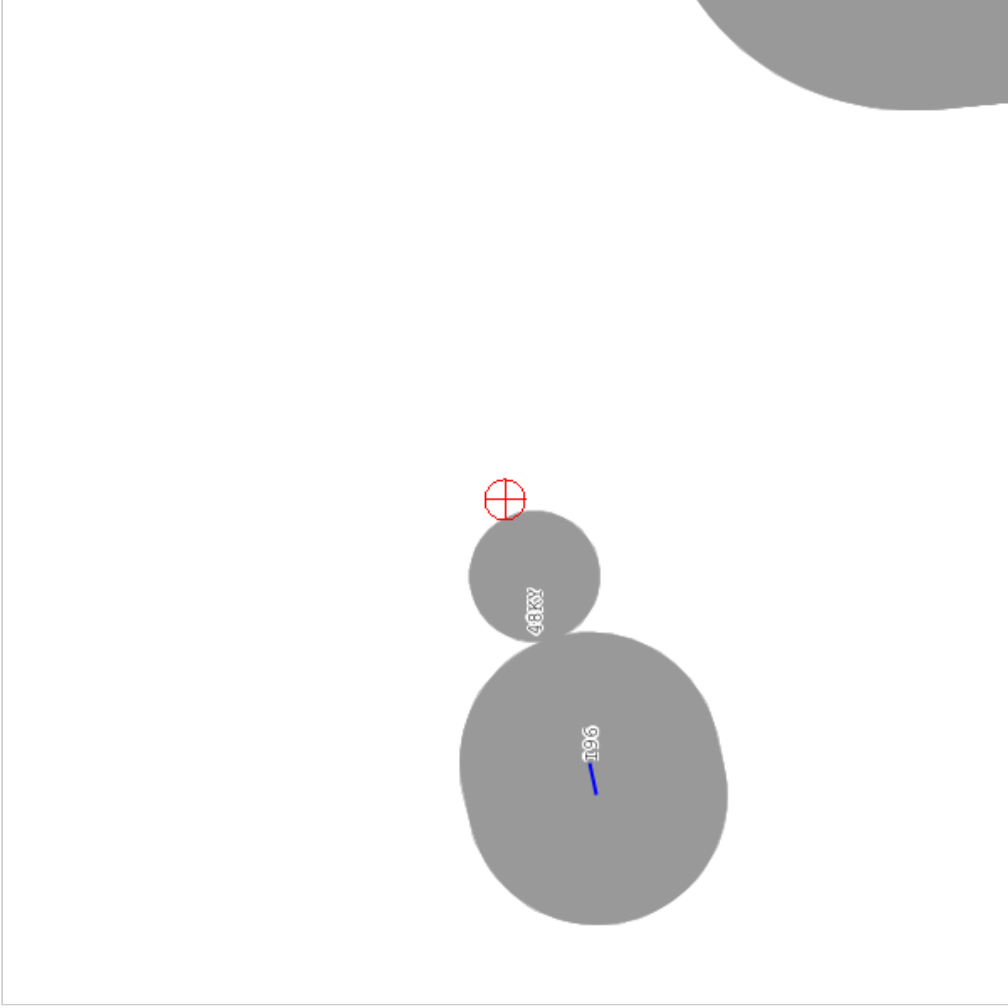
Structure Height: (nearest foot)

Traverseway:

Is structure on airport: No Yes
(Additional height is added to certain structures under 77.9(C) User can increase the default height adjustment for Traverseway, Private Roadway and Waterway)

Results

You do not exceed Notice Criteria.





Proposed Case for KY: 2021-ASO-48175-OE

For information only.

This proposal has not yet been studied. Study outcomes will be posted at a later date. Public comments are not requested, and will not be considered at this time.

Overview			
Study (ASN): 2021-ASO-48175-OE	Received Date: 12/03/2021		
Prior Study:	Entered Date: 12/03/2021		
Status: Work In Progress	Map: View Map		
Construction Info			
Notice Of: CONSTR	Structure Type: Monopole		
Duration: PERM (Months: 0 Days: 0)	Structure Name: CK Columbia Capacity - 16522185		
Work Schedule:	FCC Number:		
Structure Details			
Latitude (NAD 83): 37° 06' 11.58" N	Height and Elevation		
Longitude (NAD 83): 85° 16' 30.67" W	Site Elevation: 717		
Datum: NAD 83	Structure Height: 195		
City: Columbia	Total Height (AMSL): 912		
State: KY			
Nearest County: Adair			
Frequencies			
Low Freq	High Freq	Unit	ERP
6	7	GHz	55
6	7	GHz	42
10	11.7	GHz	55
10	11.7	GHz	42
17.7	19.7	GHz	55
17.7	19.7	GHz	42
21.2	23.6	GHz	55
21.2	23.6	GHz	42
614	698	MHz	2000
614	698	MHz	1000
698	806	MHz	1000
806	824	MHz	500
806	901	MHz	500
824	849	MHz	500
851	866	MHz	500
869	894	MHz	500
896	901	MHz	500
901	902	MHz	7

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	2310	MHZ	2000	W
2305	2360	MHZ	2000	W
2345	2360	MHZ	2000	W
2496	2690	MHZ	500	W
3550	3700	MHZ	47	dBm
3700	3980	MHZ	1640	W
3700	3980	MHZ	3280	W
27500	28350	MHZ	75	dBm
29100	29250	MHZ	75	dBm
31000	31300	MHZ	75	dBm
38600	40000	MHZ	75	dBm

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APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

JURISDICTION

602 KAR 50:030

- Section 1. The commission has zoning jurisdiction over that airspace over and around the public use and military airports within the Commonwealth which lies above the imaginary surface that extends outward and upward at one (1) of the following slopes:
- (1) 100 to one (1) for a horizontal distance of 20,000 feet from the nearest point of the nearest runway of each public use airport and military airport with at least one (1) runway 3,200 feet or more in length; or
 - (2) fifty (50) to one (1) for a horizontal distance of 10,000 feet from the nearest point of the nearest runway of each public use and military airport with its longest runway less than 3,200 feet in length.
- Section 2. The commission has zoning jurisdiction over the use of land and structures within public use airports within the state.
- Section 3. The commission has jurisdiction from the ground upward within the limits of the primary and approach surfaces of each public use airport and military airport as depicted on airport zoning maps approved by the Kentucky Airport Zoning Commission.
- Section 4. The Commission has jurisdiction over the airspace of the Commonwealth that exceeds 200 feet in height above the ground.
- Section 5. The owner or person who has control over a structure which penetrates or will penetrate the airspace over which the Commission has Jurisdiction shall apply for a permit from the Commission in accordance with 602 KAR 50:090.

INSTRUCTIONS

1. "Alteration" means to increase or decrease the height of a structure or change the obstruction marking and lighting.
2. "Applicant" means the person who will own or have control over the completed structure.
3. "Certification by Applicant" shall be made by the individual who will own or control the completed structure; or a partner in a partnership; or the president or authorized officer of a corporation company, or association; or the authorized official of a body politic; or the legally designated representative of a trustee, receiver, or assignee.
4. Prepare the application and forward to the Kentucky Dept. of Aviation, ATTN: Airport Zoning Commission, 90 Airport Drive, Frankfort KY 40601. For questions, telephone 502-782-4043.
5. The statutes applicable to the Kentucky Airport Commission are KRS 183.861 to 183.990 and the administrative regulations are 602 KAR Chapter 50.
6. When applicable, attach the following appendices to the application:
 - Appendix A. A 7.5 minute quadrangle topographical map prepared by the U.S. Geological Survey and the Kentucky Geological Survey with the exact location of the structure which is the subject of the application indicated thereon. (*The 7.5 minute quadrangle map may be obtained from the Kentucky Geological Survey, Department of Mines and Minerals, Lexington, KY 40506.*)
 - Appendix B. For structures on or very near to property of a public use airport, a copy of the airport layout drawing (ALP) with the exact location of the structure which is the subject of this application indicated thereon. (*The ALP may be obtained from the Chairperson of the local airport board or the Kentucky Airport Zoning Commission.*)
 - Appendix C. Copies of Federal Aviation Administration Applications (*FFA Form 7460-1*) or any orders issued by the manager, Air Traffic Division, FAA regional office.
 - Appendix D. If the applicant has indicated in item number 7 of the application that the structure will not be marked or lighted in accordance with the regulations of the Commission, the applicant shall attach a written request for a determination by the commission that the marking and lighting are not necessary. The applicant shall specifically state the reasons that the absence of marking and lighting will not impair the safety of air navigation.
 - Appendix E. The overall height in feet of the overhead transmission line or static wire above ground level or mean water level with span length 1,000 feet and over shall be depicted on a blueprint profile map.

PENALTIES

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



KENTUCKY TRANSPORTATION CABINET
KENTUCKY AIRPORT ZONING COMMISSION

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

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

APPLICANT (name) Verizon Wireless		PHONE 770-797-1233	FAX	KY AERONAUTICAL STUDY #	
ADDRESS (street) 5055 North Point Parkway		CITY Alpharetta		STATE GA	ZIP 30022
APPLICANT'S REPRESENTATIVE (name) Crystal Swanson		PHONE 770-797-1233	FAX		
ADDRESS (street) 5055 North Point Parkway		CITY Alpharetta		STATE GA	ZIP 30022
APPLICATION FOR <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration <input type="checkbox"/> Existing				WORK SCHEDULE	
DURATION <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary (months days)				Start End	
TYPE <input type="checkbox"/> Crane <input type="checkbox"/> Building <input type="checkbox"/> Antenna Tower <input type="checkbox"/> Power Line <input type="checkbox"/> Water Tank <input type="checkbox"/> Landfill <input checked="" type="checkbox"/> Other Monopole		MARKING/PAINTING/LIGHTING PREFERRED <input type="checkbox"/> Red Lights & Paint <input type="checkbox"/> White- medium intensity <input type="checkbox"/> White- high intensity <input type="checkbox"/> Dual- red & medium intensity white <input type="checkbox"/> Dual- red & high intensity white <input type="checkbox"/> Other			
LATITUDE 37°06'11.58"		LONGITUDE 085°16'3067. "		DATUM <input type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> Other	
NEAREST KENTUCKY City Columbia County Adair		NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT Columbia Adair County			
SITE ELEVATION (AMSL, feet) 717		TOTAL STRUCTURE HEIGHT (AGL, feet) 195		CURRENT (FAA aeronautical study #)	
OVERALL HEIGHT (site elevation plus total structure height, feet) 912				PREVIOUS (FAA aeronautical study #)	
DISTANCE (from nearest Kentucky public use or Military airport to structure) 2 nautical miles				PREVIOUS (KY aeronautical study #)	
DIRECTION (from nearest Kentucky public use or Military airport to structure) SW					
DESCRIPTION OF LOCATION (Attach USGS 7.5 minute quadrangle map or an airport layout drawing with the precise site marked and any certified survey.) 1a Survey attached on email.					
DESCRIPTION OF PROPOSAL Proposed 195' monopole. CK Columbia Capacity - 16522185					
FAA Form 7460-1 (Has the "Notice of Construction or Alteration" been filed with the Federal Aviation Administration?) <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes, when? 12/3/2021 curenly work in progress.					
CERTIFICATION (I hereby certify that all the above entries, made by me, are true, complete, and correct to the best of my knowledge and belief.)					
PENALTIES (Persons failing to comply with KRS 183.861 to 183.990 and 602 KAR 050 are liable for fines and/or imprisonment as set forth in KRS 183.990(3). Noncompliance with FAA regulations may result in further penalties.)					
NAME Crystal Swanson	TITLE Regulatory	SIGNATURE Crystal Swanson		DATE 12/3/21	
COMMISSION ACTION					
<input type="checkbox"/> Chairperson, KAZC <input type="checkbox"/> Administrator, KAZC					
<input type="checkbox"/> Approved	SIGNATURE		DATE		
<input type="checkbox"/> Disapproved					

March 30, 2022

Mr. Rodney Strong, P.E.
BTM Engineering, Inc. (BTM)
3001 Taylor Springs Drive
Louisville, KY 40220

**Re: Geotechnical Report
Proposed 190-foot Telecommunications Tower
CK Columbia Capacity Site, Location Code 689708
Columbia, KY**

Dear Mr. Strong:

Collier Engineering Company, Inc. (Collier) has completed the geotechnical report for the above referenced project. Our services were performed in general accordance with our proposal dated February 16, 2022. This report presents the findings of the limited subsurface exploration and provides geotechnical recommendations for sitework and the design and construction of foundations for the proposed tower and ancillary structures.

The design parameters provided herein are suitable for the type of tower proposed and a constructed structural height that is within a tolerance of about a quarter of the planned tower height. If the tower design or type is different than the kind assumed / stated in this correspondence, Collier should be allowed to evaluate our geotechnical recommendations with respect to the modifications in design.

PROJECT INFORMATION

The following description is based on our review of the project construction drawings provided by BTM dated October 2021. The aspects of tower design, assumed parameters, and the project location are as follows:

- Site location: 420 Ridge Crest Lane, Columbia, KY (see Exhibit 1)
- Cell tower: 190-foot monopole design with ancillary equipment structures
- Assumed tower loads: axial – 55 kips; shear – 40 kips; overturning – 5,000 ft. / kips;
- Assumed pad loads / equipment weight (gravity load): 70 kips
- Assumed grading: less than about 4 feet of cut or fill

Site and Subsurface Conditions

The project site includes open, very gently rolling terrain in a pasture. Based upon our perusal of USGS information (see footnote) and the site plan included in the drawing set provided to us, the ground surface appears to slope downward to the north / northeast across the area of proposed construction.

Geology

The *Geologic Map of the Tompkinsville Quadrangle, Kentucky*¹ indicates the site is blanketed by Mississippian Age, Fort Payne shale and limestone units. Limestone in the formation is generally described as medium to coarse grained, massive to cross-bedded, and cherty.

Typical Profile

Near-surface conditions at the site were assessed with a boring that was drilled at the approximate locations and to the depth shown by the attached boring location plan and log (Exhibit 1 and 2, respectively). Our interpretations and descriptions of the recovered samples along with laboratory test results are indicated on the appropriate horizons on the log. Brief descriptions of the materials encountered within the drilling depths are summarized below.

Layer	Approximate Depth to Bottom of Stratum (feet)	Description	Consistency/Density
Stratum 1	~1	Topsoil/root mat	NA
Stratum 2	6½	Lean clay	Very stiff ¹
Stratum 3	10	Weathered limestone	Rec 91%, RQD 61% ²
Stratum 4	23½	Limestone	Rec 100%, RQD 80 to 100% ²

1. Based on standard penetration test (SPT) N-values ranging from 18 to 22 blows per foot (bpf), and a correlated hand penetrometer (HP) index of about 5,000 psf.
2. Rec = percentage of rock recovered in the coring run or interval; RQD = Rock Quality Designation; refer to the boring log in Exhibit 2 for details.

Auger refusal was encountered at a depth of about 6½ feet. Below this depth, the boring was advanced into the refusal materials using a diamond bit attached to the outer barrel of a double core barrel. The inner barrel collected the cored material as the outer barrel was rotated at high speeds to cut the rock. The barrel was retrieved to the surface upon completion of each drill run. Once the core samples were retrieved, they were placed in a box and logged. The rock was later classified by an engineer and the “percent recovery” and rock quality designation (RQD) were determined.

¹ As published on the *Kentucky Geological Survey* website, USGS Map GQ-249 (1963).

The “percent recovery” is the ratio of the sample length retrieved to the drilled length expressed as a percent. An indication of the actual in-situ rock quality is provided by calculating the sample’s Rock Quality Designation (RQD) which is the ratio of the cumulative length of 4-inch or longer cores (discounting mechanical breaks) to the drilled length. The percent recovery and RQD are related to rock soundness and quality as illustrated below:

Relation of RQD and In-situ Rock Quality	
RQD (%)	Rock Quality
90 - 100	Excellent
75 - 90	Good
50 - 75	Fair
25 - 50	Poor
0 -25	Very Poor

Groundwater

The boring was checked while drilling and after completion for groundwater. At these times and before coring operations commenced, the borehole was dry. Long term observations in piezometers or observation wells sealed from surface water are often required to define groundwater levels in this geologic setting. Groundwater level fluctuations occur due to seasonal rainfall, runoff, and other factors not evident at the time the borings were performed. The possibility of groundwater level fluctuations should be considered when developing the design and construction plans for the project.

RECOMMENDATIONS FOR DESIGN AND CONSTRUCTION

Geotechnical Considerations

Based on the drilling results, a drilled pier or a mat (buried) footing is suitable for support of the proposed tower. The lightly loaded equipment pads or ancillary structures can be built or supported on grade supported slabs with perimeter turn downs, shallow spread footings, or short piers. Foundation recommendations are presented in the following sections.

Foundation Recommendations

Drilled Pier

The proposed tower can be founded on a straight shaft drilled pier whose design may be predicated upon the following parameters.

Approximate depth (feet) ^{1,2}	Allowable values for:			Cohesion (psf)	Internal friction angle (degrees)	Strain ϵ_{50}	Lateral subgrade modulus (pci)
	skin friction (psf)	end bearing pressure (psf)	passive pressure (psf)				
0 – 3	Ignore	Ignore	Ignore	Ignore	Ignore	Ignore	Ignore
Lean clay 3 – 6½	400	Ignore	1,250	1,250	-	0.008	100
Weathered limestone 6½ - 10	2,500	Ignore	5,000	50,000	-	0.0001	3,000
Limestone 10 – 23½	5,000	25,000	10,000	100,000	-	0.0001	3,000

1. The pier length should be adjusted if soil and bedrock conditions are encountered that vary significantly from those encountered at the boring location.
2. A total unit weight of 120 pcf can be assumed for the clay / weathered limestone layers. The unit weight of limestone bedrock may be taken as 150 pcf.

The above indicated cohesion, friction angle, lateral subgrade moduli, and strain values have no factors of safety, and the allowable skin friction and the passive resistances have a factor of safety of about 2. Listed parameters for cohesion, internal friction angle, lateral subgrade moduli, and strain values are approximate and are based on the boring results, published values, and our experience with similar soil and rock types. The allowable end bearing pressures are predicated on an approximate factor of safety of at least 3. If the drilled pier is designed using the above parameters, foundation settlement is not anticipated to exceed 1 inch.

The upper 3 feet of overburden should be ignored due to the potential negative effects of frost action and construction disturbance. To avoid decreases in lateral and uplift resistance caused by variable subsurface conditions, we recommend that drawings instruct the contractor to notify the engineer if subsurface conditions significantly different than encountered in our boring are disclosed during drilled pier installation. Under these circumstances, it may be necessary to adjust the overall length of the piers. To facilitate these adjustments and confirm that the piers are embedded in suitable materials, we recommended that a qualified geotechnical engineer observe the drilled pier excavations.

The drilled pier should be designed and constructed with a minimum shaft diameter of 30 inches to facilitate clean out and possible dewatering of the pier excavation. Temporary casing will be required during the pier excavation to control groundwater seepage and support the sides of the excavations in weak soil zones, through horizons of perched water, and below the water table, if

encountered at the time of construction. The sides and bottom of the excavation should not be disturbed during construction and the base of the shaft should be free of water, loose soil, and debris prior to placement of reinforcing steel and concrete.

We recommend a minimum concrete slump of at least 6 inches to facilitate removal of temporary casing. Casing may be extracted from a pier excavation during concrete placement provided that the concrete inside the casing is maintained at a sufficient level to resist any earth and hydrostatic pressures outside the casing during the entire casing removal procedure.

Shallow Mat (Buried) Foundation

If desired, a mat / shallow buried foundation bearing within or below the weathered bedrock interval can be used to support the proposed tower. Any unsuitable conditions or materials encountered at the foundation contact elevation shall be removed and replaced with approved granular fill prior to foundation construction. The shallow footing can be designed using the following parameters.

- Subgrade bedrock
- Net allowable bearing pressure ¹.....5,000 psf
- Allowable passive pressure ² 1,500 psf (below 3 feet)
- Ultimate coefficient of sliding friction 0.55
- Minimum embedment below finished grade for frost protection..... 24 inches

1. The recommended net allowable bearing pressure is the pressure in excess of the minimum surrounding overburden pressure at the footing base.
2. The sides of the foundation excavation must be near-vertical and the concrete should be placed neat against these sidewalls for the passive earth pressure value to be valid. This parameter will be significantly reduced if the loaded side is sloped or benched and then backfilled. Lateral resistance due to friction at the footing base should be ignored where uplift occurs.

If the mat / buried foundation is designed using the above criteria and is constructed on an approved subgrade, total foundation settlement is expected to be 1 inch or less. The foundation settlement will depend upon the variations within the near surface rock profile, the structural loading conditions, the embedment depth of the footing, the thickness of compacted fill, and the quality of the earthwork operations.

A qualified geotechnical engineer should verify the character and integrity of the bedrock surface exposed at the planned footing subgrade prior to concrete placement. Any unsuitable conditions such as delaminated or detached bedrock intervals, clay layers, seams or slots, voids, etc., if encountered, should be undercut, and replaced, with approved engineered granular fill. The base of all foundation excavations should be free of water, debris, and loose rock fragments prior to placing concrete which should proceed as soon as practical after the

excavation is opened. Should the subgrade at bearing level become disturbed, saturated, or frozen, the affected material should be removed and replaced with compacted engineered fill prior to placing concrete.

Uplift forces can be resisted by the dead weight of the footing and the effective weight of any soil above the footing. A unit weight of soil not exceeding 115 pcf is appropriate for the on-site soils backfilled above the foundation assuming that it is compacted to at least 95 percent of standard Proctor maximum dry density (ASTM D-698). A unit weight of 150 pcf could be used for mat foundation concrete. The ground surface should be sloped away from the foundation to avoid ponding of water and saturation of the backfill materials.

Foundations for Ancillary Structures

- Subgrade stiff natural soil or approved engineered fill
- Net allowable bearing pressure ¹ 2,000 psf
- Coefficient of sliding friction 0.35
- Minimum embedment below finished grade for frost protection 24 inches
- Minimum footing size: 2 feet by 2 feet

1. The recommended net allowable bearing pressure is the pressure in excess of the minimum surrounding overburden pressure at the footing base.

If grade supported pads, shallow spread footings, short canopy-support piers, or turn down slabs are designed using the above criteria and are constructed on an approved subgrade, total foundation settlement is expected to be 1 inch or less. Foundation settlement will depend upon the variations within the subsurface soil profile, actual loads, embedment depth, the type and thickness of underlying compacted fill, and the quality of the earthwork operations.

A geotechnical engineer should verify footing subgrade prior to concrete placement. Any soft or unsuitable soils, if encountered, should be undercut, and replaced, with approved engineered granular fill.

Earthwork

Site preparation should begin with removal of topsoil, vegetation, organics, and any soft or otherwise unsuitable materials from the entire construction area. We recommend the actual stripping depth along with any soft soils that will require undercutting be evaluated by the geotechnical engineer at the time of construction.

Granular fill (sand, crushed stone, or well graded gravel) is recommended exclusively for engineered fill beneath buried or shallow foundations for the project. General engineered fill (exclusive of beneath / near foundations) may consist of approved native soil (clayey material) that is free of rocks greater than 3 inches, organic matter, and debris. Granular and clay soil fill should be spread in 9-inch-thick loose lifts and each layer should be compacted to at least 98%

of the soil's standard Proctor maximum dry density. Moisture levels for granular fill should be maintained at a level not only to achieve adequate density but that will afford the compacted material to demonstrate stability when subsequently proofrolled. The moisture content of soil fill should be controlled to within $\pm 2\%$ of the materials optimum moisture as determined by the Proctor test.

Engineered fill should be tested for moisture content and compaction during the placement operations. Areas represented by failing tests should be reworked and retested as required until the specified moisture and compaction requirements are achieved. A qualified geotechnical engineer should be retained during construction to perform necessary tests during site preparation and foundation construction.

Construction Considerations

The soil subgrades are anticipated to 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. Should unstable subgrade conditions develop, stabilization measures will need to be employed. Depending upon the site conditions as disclosed and as encountered at the time of grading / construction, stabilization might be accomplished at isolated locations or across widespread areas via scarification / recompaction, chemical additives (lime, kiln dust, cement, etc.), or crushed stone underlain by geotextiles (woven ground stabilization fabric or high modulus grid).

Construction traffic over completed and working soil subgrades should be avoided to the extent practical. The site should also be graded to prevent ponding and pooling of surface water on subgrades or in excavations. If subgrades should become frozen, desiccated, saturated, or disturbed, the affected material should be removed or these materials should be scarified, moisture conditioned, and recompacted to the criteria stated for engineered fill.

All excavations should comply with applicable local, state, and federal safety regulations, including the current *OSHA Excavation and Trench Safety Standards*.

Resistivity Analysis

Near-surface soil resistivity was field-measured using a resistivity meter and employing the Wenner Vertical Profiling Method. With this technique, potential electrodes are centered on a traverse line between the current electrodes and an equal "A" spacing between electrodes is maintained. Resistivity measurements were taken along the approximate traverse alignment shown on Exhibit 1. Individual resistivity values at the requested probe spacing are summarized on Page 8.

ELECTRICAL RESISTIVITY READINGS		
Traverse alignment	"A" Spacing (ft.)	Resistivity (ohm-cm)
NW – SE	2 ½	10,915
NW – SE	5	17,522
NW – SE	10	24,895
NW – SE	12 ½	27,049
NW – SE	20	37,078

CLOSING

This report has been prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted geotechnical engineering practices. This report does not reflect any variations which may occur across the site. The nature and extent of such variations may not become evident until construction. If variations appear evident, it will be necessary to reevaluate the recommendations of this report.

Excluded from our geotechnical services are any evaluation of the cultural and natural resource aspects of the subject site and surrounding areas. In addition, the scope of geotechnical services for this project does not include any environmental or biological assessment of the site, or adjacent property, nor 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.

The information presented in this report is based upon the data obtained from the exploration limits at the single boring and from other information discussed in this report. If changes are proposed in the design or location of the project as assumed / noted in this report, the conclusions and recommendations contained in this report shall not be considered valid unless Collier reviews the changes / differences and either verifies or augments the recommendations of this report in writing. A qualified geotechnical engineer should be retained to provide observation and testing services during grading, excavation, foundation construction, and other earth-related construction phases of the project.

Geotechnical Report for CK Columbia Capacity Cell Tower
Columbia, KY
March 30, 2022

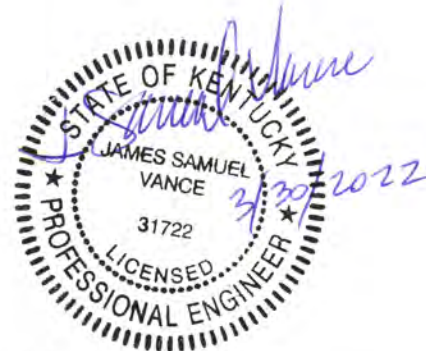


We appreciate the opportunity to be of service to you. If you have any questions concerning this correspondence, or if we may be of further service to you in any way, please do not hesitate to contact us.

Sincerely,
Collier Engineering Company, Inc.

A handwritten signature in blue ink that reads 'Nathan Couch'.

Nathan A. Couch, P.E.
Project Engineer





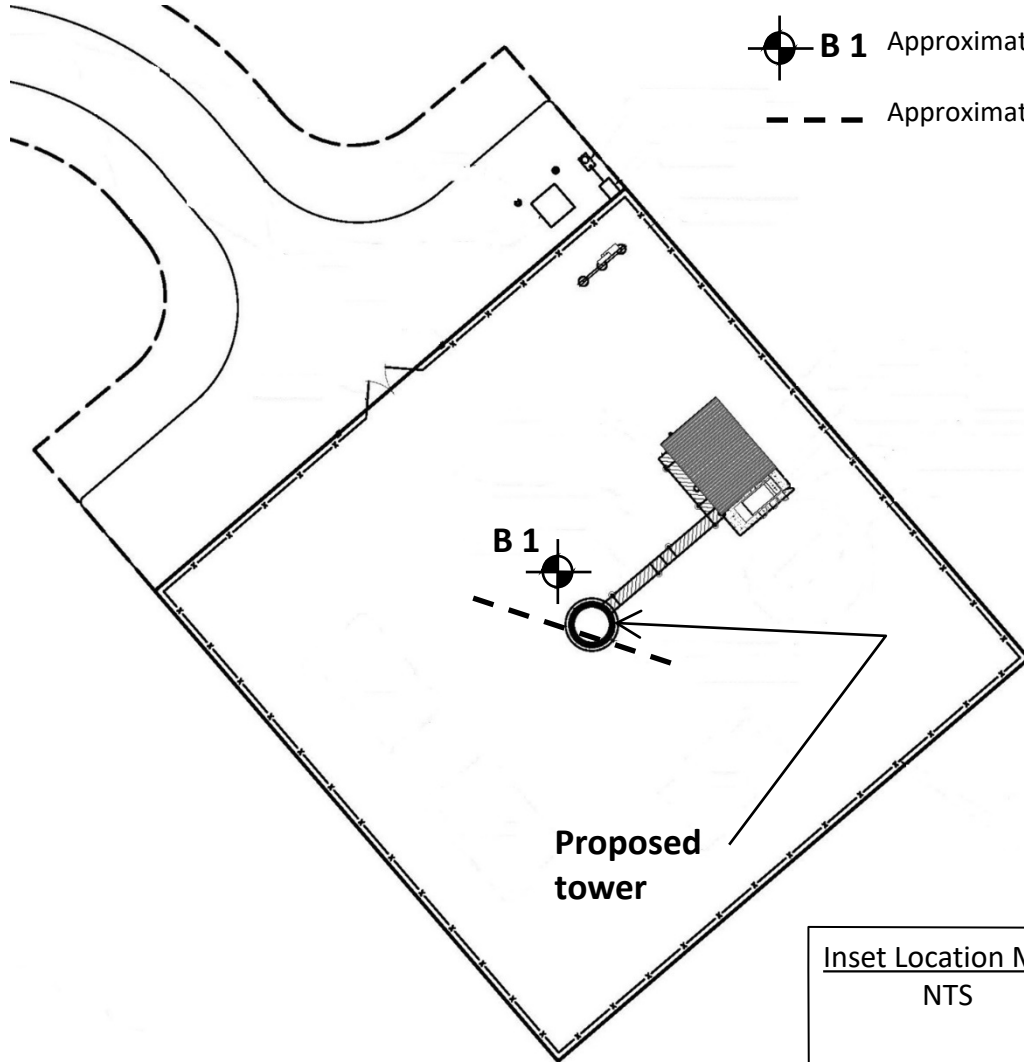
J. Samuel Vance, P.E.
Geotechnical Manager
Kentucky PE #37122

Attachments: Exhibit 1 Boring Location Plan
Exhibit 2 Boring Log
Exhibit 3 Supporting Notes



Legend

-  **B 1** Approximate boring location and label
-  Approximate resistivity array alignment



Proposed tower

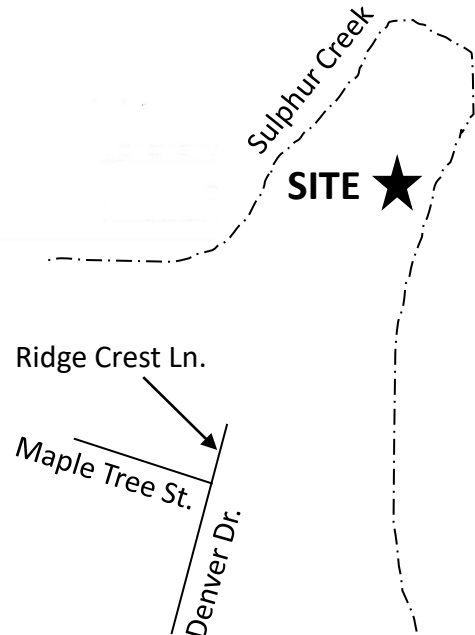
B 1



DETAILED SITE PLAN



Inset Location Map
NTS



Notes

1. Sketch adapted from drawings provided by BTM.
2. Boring drilled on March 17, 2022.
3. Boring and electrical resistivity array locations shown are approximate and were established with reference to tower stake set by others.
4. Boring elevation obtained from drawing provided by BTM.

Project Mgr.	
Drawn by:	SV
Reviewed by:	
Approved by:	

Project No.	3363-22-02
Scale:	NTS
File Name:	Exh. 1
Date:	30Mar2022



2949 Nolensville Pike Nashville, Tennessee 37211
PH. (615) 333-6444 FAX. (615) 331-1050

BORING LOCATION SKETCH
Proposed CK Columbia Cell Tower
420 Ridge Crest Lane
Columbia, KY

Exh.	1
------	----------



2949 Nolensville Pike
Nashville, TN 37211

LOG OF BORING B-1

Project Name/Site No.: CK Columbia Capacity Tower, Site #689708
 Site Location: 420 Ridge Crest Lane, Columbia, KY
 Collier Project Number: 3363-22-02
 Client: BTM Engineering, Inc. Louisville, KY

Sheet 1 of 1

Depth (ft.)	Elevation (ft.)	Location: *Surface Elevation: *Latitude/Longitude: *See remarks below	See Exhibit 1 716.7 37° 06' 11.58" N / -85° 16' 30.67" W	AMSLS	Groundwater	Sample type	SPT N-values (blows/foot)	Laboratory hand penetrometer (psf)	Water content (%)	Unconfined compressive strength (psf)	Atterberg Limits LL-PL-PI	
		Material Description		Depth								
		Topsoil/root mat		~1								
5	711.7	Lean clay (CL), mottled tan/grey/red brown/brown, silty, sandy, with gravel and chert pieces, very stiff		6½		⊗	3-6-12 (18)	5,000	20		41-21-20	
		Auger refusal at 6 ½ feet, begin rock coring operations				⊗	5-9-13 (22)		29			
10	706.7	Limestone, hard, moderately to slightly weathered, medium to dark grey, thin to medium bedded, occasional clay seam in top 3 feet, occasional calcareous shale seam or parting, trace calcite vug, diagonal fracuture at 22½ feet			Run 1: Recovery = 91%, RQD = 61%							
15	701.7				Run 2: Recovery = 100%, RQD = 80%; Unconfined compressive strength test on specimen from 14½ feet = 22,855 psi							
20	696.7				Run 3: Recovery = 100%, RQD = 88%							
					Run 4: Recovery = 100%, RQD = 100%							
25	691.7											
30	686.7											
35	681.7											
40	676.7											
45	671.7											
50	666.7	Exhibit 2										

Date started/completed: **March 17, 2022**
 Drilled by: **American Engineers, Inc.**
 Drill rig: **CME 55 (track chassis mounted)**
 Hammer type: **Autohammer**
 Driller: **Don Cash**
 Water while drilling: **Dry**
 Water upon completion: **Dry (before coring)**
 Borehole advanced by: **Hollow stem auger**
 Borehole abandoned by: **Soil cuttings**

Remarks: The boring was positioned near the proposed tower center as reportedly staked by the project surveyor. The approximate boring location is indicated on Exhibit 1. The stated ground surface elevation and latitude/longitude information (relative to the proposed tower location) was obtained from the drawing information provided by BTM Engineering.
 Soil descriptions are based on visual examination of the recovered samples and stratification lines represent the inferred boundary between soil types. Insitu, the transition may be gradual.

Supporting Notes and Information

Standard Penetration Test (SPT)

Standard penetration resistance - the number of blows required to advance a standard 2-inch O.D. split-spoon sampler the last 12 inches of the total 18-inch penetration with a 140-pound safety hammer falling 30 inches (using a cathead and rope) is considered the "Standard Penetration" or "N-value". An automatic hammer was used, and the greater efficiency realized with this tool has been considered in the interpretation and analysis of the subsurface information for this report. The SPT field test procedure was performed in general accordance with ASTM D1586.

Lab Testing

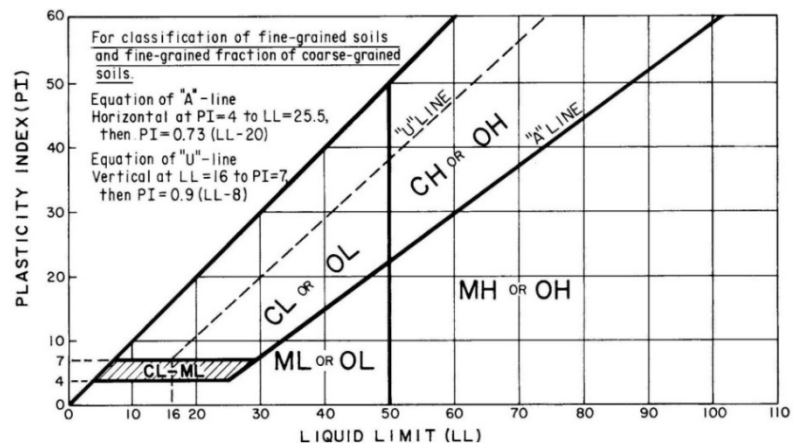
Selected SPT samples were subjected to laboratory testing to assess natural moisture content, Atterberg Limits, and relative shear strength index (using a hand penetrometer). The hand penetrometer has been correlated with unconfined compression tests and provides a better estimate of soil consistency than visual examination alone. Samples not consumed by the testing will be stored and discarded after 60 days. A rock core specimen was tested for unconfined compressive strength.

Soil Strength Terms

RELATIVE DENSITY OF COARSE-GRAINED SOILS Density determined by Standard Penetration Resistance		CONSISTENCY OF FINE-GRAINED SOILS Consistency determined by laboratory shear strength testing, field visual-manual procedures, or standard penetration resistance		
Descriptive Term (Density)	Standard Penetration or N-Value (blows/ft.)	Descriptive Term (Consistency)	Correlated Unconfined Compressive Strength (psf)	Standard Penetration or N-Value (blows/ft.)
Very loose	0-3	Very soft	Less than 500	<2
Loose	4-9	Soft	500 to 1,000	2-4
Medium dense	10-29	Firm/medium stiff	1,000 to 2,000	4-8
Dense	30-50	Stiff	2,000 to 4,000	8-15
Very dense	>50	Very stiff	4,000 to 8,000	15-30
		Hard	>8,000	>30

USCS Discussion and Plasticity Chart

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.



Grain Size Terminology	
Major component of sample	Range in particle size
Boulder	>12 inches (300 mm)
Cobble	3 to 12 inches (75 to 300 mm)
Gravel	#4 sieve to 3 inches (4.75 mm to 75 mm)
Sand	#200 sieve to #4 sieve (0.075 mm to 4.75 mm)
Silt or clay	Passing #200 sieve (<0.075 mm)

References: NAVFAC Soil Mechanics Design Manual 7.1 – May 1982;
Excerpt from ASTM D 2487 *Standard Practice for Classification of Soils for Engineering Purposes (USCS)*



DIRECTIONS TO THE SITE

FROM ADAIR COUNTY JUDGE/EXECUTIVE: HEAD NORTHWEST TOWARD CAMPBELLSVILLE ST (476 FT). EXIT THE TRAFFIC CIRCLE ONTO CAMPBELLSVILLE ST (0.3 MI). TURN RIGHT ONTO KY-206/FAIRGROUNDS ST & CONTINUE TO FOLLOW KY-206 (1.4 MI). TURN RIGHT ONTO CLOVERPORT DR (249 FT). TURN LEFT ONTO CREEKPORT DR (0.2 MI). SITE WILL BE LOCATED ON RIGHT (EAST) SIDE OF ROAD FROM LOUISVILLE MTSO: 2421 HOLLOWAY ROAD LOUISVILLE, KY 40299: HEAD SOUTH ON HOLLOWAY RD TOWARD PLANTSIDE DR (0.1 MI). TURN RIGHT AT THE 1ST CROSS STREET ONTO PLANTSIDE DR (0.3 MI). TURN LEFT ONTO WATTERSON TRAIL (0.7 MI). TURN RIGHT TO STAY ON WATTERSON TRAIL (0.7 MI). TURN LEFT ONTO BILLTOWN RD (3.7 MI). TAKE THE RAMP ONTO I-265 W/KY-841 W (0.5 MI). MERGE ONTO I-265 W/KY-841 W (8.2 MI). CONTINUE ONTO KY-841 W (0.5 MI). TAKE EXIT 10B TO MERGE ONTO I-65 S TOWARD NASHVILLE (33.9 MI). TAKE EXIT 91C-A FOR KY-61/US-31W (0.8 MI). MERGE ONTO WESTERN KENTUCKY PKWY (0.4 MI). CONTINUE ONTO KY-61 S/LINCOLN PKWY (SIGNS FOR HODGENVILLE) & CONTINUE TO FOLLOW LINCOLN PKWY (12.0 MI). TURN RIGHT ONTO KY-210 E (26.9 MI). CONTINUE ONTO KY-55 S (16.6 MI). CONTINUE ONTO CAMPBELLSVILLE RD (1.2 MI). TURN LEFT ONTO FAIRGROUNDS ST (0.8 MI). TURN RIGHT ONTO MCKINLEY DR (430 FT). CONTINUE ONTO GREENHILLS RD (0.6 MI). TURN LEFT ONTO DENVER DR (0.2 MI). CONTINUE STRAIGHT ONTO RIDGE CREST LN (381 FT). SITE WILL BE LOCATED ON RIGHT (EAST) SIDE OF ROAD.

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

LAND LEASE AGREEMENT

This Land Lease Agreement (the "Agreement") made this 8 day of Feb, 2022, between **David E. Bowman**, a Kentucky resident with a mailing address of 420 Ridge Crest Lane, Columbia, Kentucky 42728, hereinafter collectively designated LESSOR and **Cellco Partnership d/b/a Verizon Wireless** with its principal offices at One Verizon Way, Mail Stop 4AW100, Basking Ridge, New Jersey 07920 (telephone number 866-862-4404), hereinafter designated LESSEE. LESSOR and LESSEE are at times collectively referred to hereinafter as the "Parties" or individually as the "Party."

WITNESSETH

In consideration of the mutual covenants contained herein and intending to be legally bound hereby, the Parties hereto agree as follows:

1. **GRANT.** In accordance with this Agreement, LESSOR hereby grants to LESSEE the right to install, maintain and operate a telecommunications tower, facility, and equipment ("Use") upon the Premises (as hereinafter defined), which are a part of that real property owned, leased or controlled by LESSOR at approximately 420 Ridge Crest Lane, Columbia, Kentucky 42728 (the "Property"). The Property is legally described on Exhibit "A" attached hereto and made a part hereof. The Premises are a portion of the Property including a portion of the parcel of land space (the "Land Space") consisting of approximately 100' x 100', or 10,000 square feet of land, as shown in detail on Exhibit "B" attached hereto and made a part hereof. LESSOR hereby grants permission to LESSEE to install, maintain and operate the telecommunications tower, facility, equipment, antennas and appurtenances described in Exhibit "B" attached hereto. LESSEE reserves the right to replace the aforementioned equipment with similar and comparable equipment. In addition, LESSOR hereby grants to LESSEE a non-exclusive right (the "Easements") over the Property for access, ingress and egress, seven (7) days a week twenty-four (24) hours a day, on foot or motor vehicle, including trucks over or along a thirty foot (30') wide right-of-way extending from the nearest public right-of-way, Ridge Crest Lane, to the Land Space, and for the installation and maintenance of utility wires, poles, cables, conduits, fiber, and pipes over, under, or along one or more rights of way from the Land Space, said Land Space and Rights of Way (hereinafter collectively referred to as the "Premises") being substantially as described herein in Exhibit "B" attached hereto and made a part hereof. The Property is also shown on the Tax Map of the City of Columbia, Adair County, as Tax Map ID Number 063-00-00-055.00.

In the event any public utility is unable to use the Easements, the LESSOR hereby agrees to grant an additional right-of-way either to the LESSEE or to the public utility at no cost to the LESSEE.

LESSEE may survey the Premises and said survey shall then become Exhibit "C" which shall be attached hereto and made a part hereof, and shall control in the event of boundary and access discrepancies between it and Exhibit "B". Cost for such work shall be borne by the LESSEE.

2. **INITIAL TERM.** This Agreement shall be effective as of the date of execution by both Parties ("Effective Date"). The initial term of the Agreement shall be for five (5) years beginning on the first (1st) day of the month following the Commencement Date (as hereinafter defined). The "Commencement Date" shall be the first (1st) day of the month after LESSEE begins construction of the

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telecommunications facility. LESSOR and LESSEE agree that they shall acknowledge, in writing, the Commencement Date once construction of the telecommunications facility has commenced.

3. EXTENSIONS. This Agreement shall automatically be extended for 4 additional five (5) year terms unless LESSEE terminates it at the end of the then current term by giving LESSOR written notice of the intent to terminate at least three (3) months prior to the end of the then current term. The initial term and all extensions shall be collectively referred to herein as the "Term".

4. RENTAL.

(a). Rental payments shall begin on the Commencement Date and be due at a total annual rental of [REDACTED] on the first (1st) day of the month, in advance, to LESSOR at 420 Ridge Crest Lane, Columbia, Kentucky 42728 or to such other person, firm, or place as LESSOR may, from time to time, designate in writing at least thirty (30) days in advance of any rental payment date by notice given in accordance with Paragraph 20 below. LESSOR and LESSEE acknowledge and agree that the initial rental payment shall not be delivered by LESSEE until sixty (60) days after the Commencement Date. Upon agreement of the Parties, LESSEE may pay rent by electronic funds transfer and in such event, LESSOR agrees to provide to LESSEE bank routing information for such purpose upon request of LESSEE.

(b). For any party to whom rental payments are to be made, LESSOR or any successor in interest of LESSOR hereby agrees to provide to LESSEE (i) a completed, current version of Internal Revenue Service Form W-9, or equivalent; (ii) complete and fully executed state and local withholding forms if required; and (iii) other documentation to verify LESSOR's or such other party's right to receive rental as is reasonably requested by LESSEE. Rental shall accrue in accordance with this Agreement, but LESSEE shall have no obligation to deliver rental payments until the requested documentation has been received by LESSEE. Upon receipt of the requested documentation, LESSEE shall deliver the accrued rental payments as directed by LESSOR.

(c). The rental amount shall increase by Ten percent (10%) at the beginning of each five (5) year renewal term from the Commencement Date, as defined herein.

(d). ADDITIONAL EXTENSIONS. If at the end of the fourth (4th) five (5) year extension term this Agreement has not been terminated by either Party by giving to the other written notice of an intention to terminate it at least three (3) months prior to the end of such term, this Agreement shall continue in force upon the same covenants, terms and conditions for a further term of five (5) years and for five (5) year terms thereafter until terminated by either Party by giving to the other written notice of its intention to so terminate at least three (3) months prior to the end of such term. Annual rental for each such additional five (5) year term shall be equal to the annual rental payable with respect to the immediately preceding five (5) year term. The initial term and all extensions shall be collectively referred to herein as the "Term".

5. ACCESS. LESSEE shall have the non-exclusive right of ingress and egress from a public right-of-way, 7 days a week, 24 hours a day, over the Property to and from the Premises for the purpose of installation, operation and maintenance of LESSEE's communications equipment over or along a thirty foot (30') right-of-way ("Easement"), which shall be depicted on Exhibit "B". LESSEE may use the Easement for the installation, operation and maintenance of wires, cables,

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conduits and pipes for all necessary electrical, telephone, fiber and other similar support services. In the event it is necessary, LESSOR agrees to grant LESSEE or the provider the right to install such services on, through, over and/or under the Property, provided the location of such services shall be reasonably approved by LESSOR. Notwithstanding anything to the contrary, the Premises shall include such additional space sufficient for LESSEE's radio frequency signage and/or barricades as are necessary to ensure LESSEE's compliance with Laws (as defined in Paragraph 27).

6. CONDITION OF PROPERTY. LESSOR shall deliver the Premises to LESSEE in a condition ready for LESSEE's Use and clean and free of debris. Notwithstanding the foregoing, LESSEE shall be responsible for any tree clearing/site preparation associated with the Land Space and/or Easement areas. LESSOR represents and warrants to LESSEE that as of the Effective Date, the Premises is (a) in compliance with all Laws; and (b) in compliance with all EH&S Laws (as defined in Paragraph 24).

7. IMPROVEMENTS. The communications equipment including, without limitation, the tower, equipment shelters/platforms, antenna mounts, antennas, conduits, and other improvements shall be at LESSEE's expense and installation shall be at the discretion and option of LESSEE. LESSEE shall have the right to replace, repair, add or otherwise modify its communications equipment, antennas, conduits, fencing and other screening, or other improvements or any portion thereof and the frequencies over which the communications equipment operates, whether or not any of the communications equipment, antennas, conduits or other improvements are listed on any exhibit.

8. GOVERNMENT APPROVALS. LESSEE's Use is contingent upon LESSEE obtaining all of the certificates, permits and other approvals (collectively the "Government Approvals") that may be required by any Federal, State or Local authorities (collectively, the "Government Entities") as well as a satisfactory soil boring test, environmental studies, or any other due diligence LESSEE chooses that will permit LESSEE's Use. By signing this Agreement, LESSOR consents to LESSEE making all necessary applications with the appropriate zoning authority and shall cooperate with LESSEE in its effort to obtain such approvals. LESSOR shall take no action which would adversely affect the status of the Property with respect to LESSEE's Use.

9. TERMINATION. LESSEE may, unless otherwise stated, immediately terminate this Agreement upon written notice to LESSOR in the event that (i) any applications for such Government Approvals should be finally rejected; (ii) any Government Approval issued to LESSEE is canceled, expires, lapses or is otherwise withdrawn or terminated by any Government Entity; (iii) LESSEE determines that such Government Approvals may not be obtained in a timely manner; (iv) LESSEE determines any structural analysis is unsatisfactory; (v) LESSEE, in its sole discretion, determines the Use of the Premises is obsolete or unnecessary; (vi) with 3 months prior notice to LESSOR, upon the annual anniversary of the Commencement Date; or (vii) at any time before the Commencement Date for any reason or no reason in LESSEE's sole discretion.

10. INDEMNIFICATION. Subject to Paragraphs 11 and 12, each Party shall indemnify and hold the other harmless against any claim of liability or loss from personal injury or property damage resulting from or arising out of the negligence or willful misconduct of the indemnifying Party, its employees, contractors or agents, except to the extent such claims or damages may be due to or caused by the negligence or willful misconduct of the other Party, or its employees, contractors or agents. The indemnified Party will provide the indemnifying Party with prompt, written notice

of any claim covered by this indemnification; provided that any failure of the indemnified Party to provide any such notice, or to provide it promptly, shall not relieve the indemnifying Party from its indemnification obligation in respect of such claim, except to the extent the indemnifying Party can establish actual prejudice and direct damages as a result thereof. The indemnified Party will cooperate appropriately with the indemnifying Party in connection with the indemnifying Party's defense of such claim. The indemnifying Party shall defend any indemnified Party, at the indemnified Party's request, against any claim with counsel reasonably satisfactory to the indemnified Party. The indemnifying Party shall not settle or compromise any such claim or consent to the entry of any judgment without the prior written consent of each indemnified Party and without an unconditional release of all claims by each claimant or plaintiff in favor of each indemnified Party.

11. INSURANCE. The LESSOR agrees that at its own cost and expense, LESSOR will maintain commercial liability insurance with limits not less than \$1,000,000 for injury to or death of one or more persons in any one occurrence and \$1,000,000 for damage or destruction in any one occurrence. The LESSEE agrees that at its own cost and expense, it will maintain commercial general liability insurance with limits not less than \$2,000,000 for injury to or death of one or more persons in any one occurrence and \$2,000,000 for damage or destruction in any one occurrence. The Parties agree to include the other Party as an additional insured. The Parties hereby waive and release any and all rights of action for negligence against the other which may hereafter arise on account of damage to the Premises or the Property, resulting from any fire, or other casualty which is insurable under "Causes of Loss – Special Form" property damage insurance or for the kind covered by standard fire insurance policies with extended coverage, regardless of whether or not, or in what amounts, such insurance is now or hereafter carried by the Parties, even if any such fire or other casualty shall have been caused by the fault or negligence of the other Party. These waivers and releases shall apply between the Parties and they shall also apply to any claims under or through either Party as a result of any asserted right of subrogation. All such policies of insurance obtained by either Party concerning the Premises or the Property shall waive the insurer's right of subrogation against the other Party.

12. LIMITATION OF LIABILITY. Except for indemnification pursuant to Paragraphs 10 and 24, a violation of Paragraph 30, or a violation of law, neither Party shall be liable to the other, or any of their respective agents, representatives, or employees for any lost revenue, lost profits, loss of technology, rights or services, incidental, punitive, indirect, special or consequential damages, loss of data, or interruption or loss of use of service, even if advised of the possibility of such damages, whether under theory of contract, tort (including negligence), strict liability or otherwise.

13. INTERFERENCE.

(a). LESSOR agrees that LESSOR and other occupants of the Property will not cause interference to LESSEE's equipment (that is measurable in accordance with industry standards to the then existing equipment of LESSEE).

(b). Without limiting any other rights or remedies, if interference occurs and continues for a period in excess of 48 hours following notice to the interfering party via telephone to LESSEE'S Network Operations Center (at (800) 224-6620/(800) 621-2622) or to LESSOR at (270) 250-9244, the interfering party shall or shall require any other user to reduce power or cease operations of the interfering equipment until the interference is cured.

(c). The Parties acknowledge that there will not be an adequate remedy at law for noncompliance with the provisions of this Paragraph and therefore the Parties shall have the right to equitable remedies such as, without limitation, injunctive relief and specific performance.

14. REMOVAL AT END OF TERM. Upon expiration or within ninety (90) days of earlier termination, LESSEE shall remove LESSEE's Communications Equipment (except footings) and restore the Premises to its original condition, reasonable wear and tear and casualty damage excepted. LESSOR agrees and acknowledges that the communications equipment shall remain the personal property of LESSEE and LESSEE shall have the right to remove the same at any time during the Term, whether or not said items are considered fixtures and attachments to real property under applicable laws. If such time for removal causes LESSEE to remain on the Premises after termination of the Agreement, LESSEE shall pay rent at the then existing monthly rate or on the existing monthly pro-rata basis if based upon a longer payment term, until the removal of the communications equipment is completed.

15. HOLDOVER. If upon expiration of the Term the Parties are negotiating a new lease or a lease extension, then this Agreement shall continue during such negotiations on a month to month basis at the rental in effect as of the date of the expiration of the Term. In the event that the Parties are not in the process of negotiating a new lease or lease extension and LESSEE holds over after the expiration or earlier termination of the Term, then LESSEE shall pay rent at the then existing monthly rate or on the existing monthly pro-rata basis if based upon a longer payment term, until the removal of the communications equipment is completed.

16. RIGHT OF FIRST REFUSAL. If at any time after the Effective Date, LESSOR receives an offer or letter of intent from any person or entity that is in the business of owning, managing or operating communications facilities or is in the business of acquiring landlord interests in agreements relating to communications facilities, to purchase fee title, an easement, a lease, a license, or any other interest in the Premises or any portion thereof or to acquire any interest in this Agreement, or an option for any of the foregoing, LESSOR shall provide written notice to LESSEE of said offer ("LESSOR's Notice"). LESSOR's Notice shall include the prospective buyer's name, the purchase price being offered, any other consideration being offered, the other terms and conditions of the offer, a description of the portion of and interest in the Premises and/or this Agreement which will be conveyed in the proposed transaction, and a copy of any letters of intent or form agreements presented to LESSOR by the third party offeror. LESSEE shall have the right of first refusal to meet any bona fide offer of sale or transfer on the terms and conditions of such offer or by effectuating a transaction with substantially equivalent financial terms. If LESSEE fails to provide written notice to LESSOR that LESSEE intends to meet such bona fide offer within thirty (30) days after receipt of LESSOR's Notice, LESSOR may proceed with the proposed transaction in accordance with the terms and conditions of such third party offer, in which event this Agreement shall continue in full force and effect and the right of first refusal described in this Paragraph shall survive any such conveyance to a third party. If LESSEE provides LESSOR with notice of LESSEE's intention to meet the third party offer within thirty (30) days after receipt of LESSOR's Notice, then if LESSOR's Notice describes a transaction involving greater space than the Premises, LESSEE may elect to proceed with a transaction covering only the Premises and the purchase price shall be pro-rated on a square footage basis. Further, LESSOR acknowledges and agrees that if LESSEE exercises this right of first refusal, LESSEE may require a reasonable period of time to conduct due diligence and effectuate the closing of a transaction on substantially equivalent financial terms of

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the third party offer. For purposes of this Paragraph, any transfer, bequest or devise of LESSOR's interest in the Property as a result of the death of LESSOR, whether by will or intestate succession, or any conveyance to LESSOR's family members by direct conveyance or by conveyance to a trust for the benefit of family members shall not be considered a sale for which LESSEE has any right of first refusal.

17. RIGHTS UPON SALE. Should LESSOR, at any time during the Term, decide (i) to sell or otherwise transfer all or any part of the Property, or (ii) to grant to a third party by easement or other legal instrument an interest in and to any portion of the Premises, such sale, transfer, or grant of an easement or interest therein shall be under and subject to this Agreement and any such purchaser or transferee shall recognize LESSEE's rights hereunder. In the event that LESSOR completes any such sale, transfer, or grant described in this Paragraph without executing an assignment of the Agreement whereby the third party agrees in writing to assume all obligations of LESSOR under this Agreement, then LESSOR shall not be released from its obligations to LESSEE under this Agreement, and LESSEE shall have the right to look to LESSOR and the third party for the full performance of the Agreement.

18. LESSOR'S TITLE. LESSOR covenants that LESSEE, on paying the rent and performing the covenants herein, shall peaceably and quietly have, hold and enjoy the Premises. LESSOR represents and warrants to LESSEE as of the Effective Date and covenants during the Term that LESSOR has full authority to enter into and execute this Agreement and that there are no liens, judgments, covenants, easements, restrictions or other impediments of title that will adversely affect LESSEE's Use.

19. ASSIGNMENT. Without any approval or consent of the other Party, this Agreement may be sold, assigned or transferred by either Party to (i) any entity in which the Party directly or indirectly holds an equity or similar interest; (ii) any entity which directly or indirectly holds an equity or similar interest in the Party; or (iii) any entity directly or indirectly under common control with the Party. LESSEE may unilaterally assign this Agreement without the approval or consent of LESSOR to any third party tower company that agrees to construct and develop the Premises. LESSEE may also assign this Agreement to any entity which acquires all or substantially all of LESSEE's assets in the market defined by the FCC in which the Property is located by reason of a merger, acquisition or other business reorganization without approval or consent of LESSOR. As to other parties, this Agreement may not be sold, assigned or transferred without the written consent of the other Party, which such consent will not be unreasonably withheld, delayed or conditioned. No change of stock ownership, partnership interest or control of LESSEE or transfer upon partnership or corporate dissolution of either Party shall constitute an assignment hereunder. LESSEE may sublet the Premises in LESSEE's sole discretion.

20. NOTICES. Except for notices permitted via telephone in accordance with Paragraph 13, all notices hereunder must be in writing and shall be deemed validly given if sent by certified mail, return receipt requested or by commercial courier, provided the courier's regular business is delivery service and provided further that it guarantees delivery to the addressee by the end of the next business day following the courier's receipt from the sender, addressed as follows (or any other address that the Party to be notified may have designated to the sender by like notice):

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LESSOR: David E. Bowman
420 Ridge Crest Lane
Columbia, Kentucky 42728

LESSEE: Cellco Partnership
d/b/a Verizon Wireless
180 Washington Valley Road
Bedminster, New Jersey 07921
Attention: Network Real Estate

Notice shall be effective upon actual receipt or refusal as shown on the receipt obtained pursuant to the foregoing.

21. SUBORDINATION AND NON-DISTURBANCE. If applicable and within fifteen (15) days of the Effective Date, LESSOR shall obtain a Non-Disturbance Agreement, as defined below, from its existing mortgagee(s), ground lessors and master lessors, if any, of the Property. At LESSOR's option, this Agreement shall be subordinate to any future master lease, ground lease, mortgage, deed of trust or other security interest (a "Mortgage") by LESSOR which from time to time may encumber all or part of the Property; provided, however, as a condition precedent to LESSEE being required to subordinate its interest in this Agreement to any future Mortgage covering the Property, LESSOR shall obtain for LESSEE's benefit a non-disturbance and attornment agreement for LESSEE's benefit in the form reasonably satisfactory to LESSEE, and containing the terms described below (the "Non-Disturbance Agreement"), and shall recognize LESSEE's rights under this Agreement. The Non-Disturbance Agreement shall include the encumbering party's ("Lender's") agreement that, if Lender or its successor-in-interest or any purchaser of Lender's or its successor's interest (a "Purchaser") acquires an ownership interest in the Property, Lender or such successor-in-interest or Purchaser will honor all of the terms of the Agreement. Such Non-Disturbance Agreement must be binding on all of Lender's participants in the subject loan (if any) and on all successors and assigns of Lender and/or its participants and on all Purchasers. In return for such Non-Disturbance Agreement, LESSEE will execute an agreement for Lender's benefit in which LESSEE (1) confirms that the Agreement is subordinate to the Mortgage or other real property interest in favor of Lender, (2) agrees to attorn to Lender if Lender becomes the owner of the Property and (3) agrees to accept a cure by Lender of any of LESSOR's defaults, provided such cure is completed within the deadline applicable to LESSOR. In the event LESSOR defaults in the payment and/or other performance of any mortgage or other real property interest encumbering the Property, LESSEE, may, at its sole option and without obligation, cure or correct LESSOR's default and upon doing so, LESSEE shall be subrogated to any and all rights, titles, liens and equities of the holders of such mortgage or other real property interest and LESSEE shall be entitled to deduct and setoff against all rents that may otherwise become due under this Agreement the sums paid by LESSEE to cure or correct such defaults.

22. DEFAULT. It is a "Default" if (i) either Party fails to comply with this Agreement and does not remedy the failure within thirty (30) days after written notice by the other Party or, if the failure cannot reasonably be remedied in such time, if the failing Party does not commence a remedy within the allotted thirty (30) days and diligently pursue the cure to completion within ninety (90) days after the initial written notice, or (ii) LESSOR fails to comply with this Agreement

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Location Code: 689708

Atty: Coots Henke & Wheeler, P.C.: Daniel E. Coots

and the failure substantially interferes with LESSEE's Use, in LESSEE's reasonable discretion, and LESSOR does not remedy the failure within five (5) days after written notice from LESSEE or, if the failure cannot reasonably be remedied in such time, if LESSOR does not commence a remedy within the allotted five (5) days and diligently pursue the cure to completion within fifteen (15) days after the initial written notice. The cure periods set forth in this Paragraph 22 do not extend the period of time in which either Party has to cure interference pursuant to Paragraph 13 of this Agreement.

23. **REMEDIES.** In the event of a Default, without limiting the non-defaulting Party in the exercise of any right or remedy which the non-defaulting Party may have by reason of such default, the non-defaulting Party may terminate this Agreement and/or pursue any remedy now or hereafter available to the non-defaulting Party under the Laws or judicial decisions of the state in which the Property is located. Further, upon a Default, the non-defaulting Party may at its option (but without obligation to do so), perform the defaulting Party's duty or obligation. The costs and expenses of any such performance by the non-defaulting Party shall be due and payable by the defaulting Party upon invoice therefor. If LESSEE undertakes any such performance on LESSOR's behalf and LESSOR does not pay LESSEE the full undisputed amount within thirty (30) days of its receipt of an invoice setting forth the amount due, LESSEE may offset the full undisputed amount due against all fees due and owing to LESSOR under this Agreement until the full undisputed amount is fully reimbursed to LESSEE.

24. **ENVIRONMENTAL.** LESSEE shall conduct its business in compliance with all applicable laws governing the protection of the environment or employee health and safety ("EH&S Laws"). LESSEE shall indemnify and hold harmless the LESSOR from claims to the extent resulting from LESSEE's violation of any applicable EH&S Laws or to the extent that LESSEE causes a release of any regulated substance to the environment. LESSOR shall indemnify and hold harmless LESSEE from all claims resulting from the violation of any applicable EH&S Laws by LESSOR or its employees, contractors or agents, or a release of any regulated substance to the environment caused by LESSOR, its employees, contractors or agents, except to the extent resulting from the activities of LESSEE. The Parties recognize that LESSEE is only leasing a small portion of LESSOR's property and that LESSEE shall not be responsible for any environmental condition or issue except to the extent resulting from LESSEE's specific activities and responsibilities. In the event that LESSEE encounters any hazardous substances that do not result from its activities, LESSEE may relocate its facilities to avoid such hazardous substances to a mutually agreeable location or, if LESSEE desires to remove at its own cost all or some the hazardous substances or materials (such as soil) containing those hazardous substances, LESSOR agrees to sign any necessary waste manifest associated with the removal, transportation and/or disposal of such substances.

25. **CASUALTY.** If a fire or other casualty damages the Property or the Premises and substantially impairs LESSEE's Use, in LESSEE's reasonable discretion, rent shall abate until LESSEE'S Use is restored. If LESSEE's Use is not restored within forty-five (45) days, LESSEE may terminate this Agreement.

26. **CONDEMNATION.** If a condemnation of any portion of the Property or Premises substantially impairs LESSEE's Use, in LESSEE's reasonable discretion, LESSEE may terminate this Agreement. LESSEE may on its own behalf make a claim in any condemnation proceeding involving the Premises for losses related to LESSEE's communications equipment, relocation costs

VzW Site Name: CK Columbia Capacity

Location Code: 689708

Atty: Coots Henke & Wheeler, P.C.: Daniel E. Coots

and, specifically excluding loss of LESSEE's leasehold interest, any other damages LESSEE may incur as a result of any such condemnation.

27. APPLICABLE LAWS. During the Term, LESSOR shall maintain the Property in compliance with all applicable laws, EH&S Laws, rules, regulations, ordinances, directives, covenants, easements, consent decrees, zoning and land use regulations, and restrictions of record, permits, building codes, and the requirements of any applicable fire insurance underwriter or rating bureau, now in effect or which may hereafter come into effect (including, without limitation, the Americans with Disabilities Act and laws regulating hazardous substances) (collectively "Laws"). LESSEE shall, in respect to the condition of the Premises and at LESSEE's sole cost and expense, comply with (i) all Laws relating solely to LESSEE's specific and unique nature of use of the Premises; and (ii) all building codes requiring modifications to the Premises due to the improvements being made by LESSEE in the Premises. It shall be LESSOR's obligation to comply with all Laws relating to the Property, without regard to specific use (including, without limitation, modifications required to enable LESSEE to obtain all necessary building permits).

28. TAXES.

(a). LESSOR shall invoice and LESSEE shall pay any applicable transaction tax (including sales, use, gross receipts, or excise tax) imposed on the LESSEE and required to be collected by the LESSOR based on any service, rental space, or equipment provided by the LESSOR to the LESSEE. LESSEE shall pay all personal property taxes, fees, assessments, or other taxes and charges imposed by any Government Entity that are imposed on the LESSEE and required to be paid by the LESSEE that are directly attributable to the LESSEE's equipment or LESSEE's use and occupancy of the Premises. Payment shall be made by LESSEE within sixty (60) days after presentation of a receipted bill and/or assessment notice which is the basis for such taxes or charges. LESSOR shall pay all ad valorem, personal property, real estate, sales and use taxes, fees, assessments or other taxes or charges that are attributable to LESSOR's Property or any portion thereof imposed by any Government Entity.

(b). LESSEE shall have the right, at its sole option and at its sole cost and expense, to appeal, challenge or seek modification of any tax assessment or billing for which LESSEE is wholly or partly responsible for payment. LESSOR shall reasonably cooperate with LESSEE at LESSEE's expense in filing, prosecuting and perfecting any appeal or challenge to taxes as set forth in the preceding sentence, including but not limited to, executing any consent, appeal or other similar document. In the event that as a result of any appeal or challenge by LESSEE, there is a reduction, credit or repayment received by the LESSOR for any taxes previously paid by LESSEE, LESSOR agrees to promptly reimburse to LESSEE the amount of said reduction, credit or repayment. In the event that LESSEE does not have the standing rights to pursue a good faith and reasonable dispute of any taxes under this paragraph, LESSOR will pursue such dispute at LESSEE's sole cost and expense upon written request of LESSEE.

29. ACCESS TO TOWER. LESSOR agrees the LESSEE shall have free access to the Tower at all times for the purpose of installing and maintaining the said equipment. LESSOR shall furnish LESSEE with necessary means of access for the purpose of ingress and egress to this site and Tower location. It is agreed, however, that only authorized engineers, employees or properly authorized contractors of LESSEE or persons under their direct supervision will be permitted to enter said premises.

VzW Site Name: CK Columbia Capacity

Location Code: 689708

Atty: Coots Henke & Wheeler, P.C.: Daniel E. Coots

30. NON-DISCLOSURE. The Parties agree this Agreement and any information exchanged between the Parties regarding the Agreement are confidential. The Parties agree not to provide copies of this Agreement or any other confidential information to any third party without the prior written consent of the other or as required by law. If a disclosure is required by law, prior to disclosure, the Party shall notify the other Party and cooperate to take lawful steps to resist, narrow, or eliminate the need for that disclosure.

31. MOST FAVORED LESSEE. LESSOR represents and warrants that the rent, benefits and terms and conditions granted to LESSEE by LESSOR hereunder are now and shall be, during the Term, no less favorable than the rent, benefits and terms and conditions for substantially the same or similar tenancies or licenses granted by LESSOR to other parties. If at any time during the Term LESSOR shall offer more favorable rent, benefits or terms and conditions for substantially the same or similar tenancies or licenses as those granted hereunder, then LESSOR shall, within thirty (30) days after the effective date of such offering, notify LESSEE of such fact and offer LESSEE the more favorable offering. If LESSEE chooses, the parties shall then enter into an amendment that shall be effective retroactively to the effective date of the more favorable offering, and shall provide the same rent, benefits or terms and conditions to LESSEE. LESSEE shall have the right to decline to accept the offering. LESSOR's compliance with this requirement shall be subject, at LESSEE's option, to independent verification.

32. MISCELLANEOUS. This Agreement contains all agreements, promises and understandings between the LESSOR and the LESSEE regarding this transaction, and no oral agreement, promises or understandings shall be binding upon either the LESSOR or the LESSEE in any dispute, controversy or proceeding. This Agreement may not be amended or varied except in a writing signed by all Parties. This Agreement shall extend to and bind the heirs, personal representatives, successors and assigns hereto. The failure of either party to insist upon strict performance of any of the terms or conditions of this Agreement or to exercise any of its rights hereunder shall not waive such rights and such party shall have the right to enforce such rights at any time. The performance of this Agreement shall be governed, interpreted, construed and regulated by the laws of the state in which the Premises is located without reference to its choice of law rules. Except as expressly set forth in this Agreement, nothing in this Agreement shall grant, suggest or imply any authority for one Party to use the name, trademarks, service marks or trade names of the other for any purpose whatsoever. LESSOR agrees to execute a Memorandum of this Agreement, which LESSEE may record with the appropriate recording officer. The provisions of the Agreement relating to indemnification from one Party to the other Party shall survive any termination or expiration of this Agreement.

[Signature page follows. The remainder of this page is intentionally blank.]

VzW Site Name: CK Columbia Capacity
Location Code: 689708
Atty: Coots Henke & Wheeler, P.C.: Daniel E. Coots

IN WITNESS WHEREOF, the Parties hereto have set their hands and affixed their respective seals the day and year first above written.

LESSOR:



WITNESS

By: David E. Bowman

David E. Bowman

Date: 11-9-2021

LESSEE:

CELLCO PARTNERSHIP

d/b/a Verizon Wireless



WITNESS

Abigail Ball

By: Ed Maher

Printed: Ed Maher
Director - Network Field Engineering

Its: _____

Date: 2/8/22

VzW Site Name: CK Columbia Capacity
Location Code: 689708
Atty: Coots Henke & Wheeler, P.C.: Daniel E Coots

EXHIBIT "A"

DESCRIPTION OF PROPERTY

Property located in Adair County, Kentucky

PARCEL 1:

The following described real estate in Adair County, Kentucky.

BEING LOTS NUMBER ONE (1) (3.16 acres) and NUMBER TWO (2) (3.16 acres) of the TURNER HEIRS FARM DIVISION, in Adair County, Kentucky, as shown on a plat of said division recorded in Plat Cabinet 4, Slide 131, in the Office of the Adair County Court Clerk, to which reference is hereby made for a more particular description of said lots.

AND BEING the same property conveyed to David E. Bowman from John David Turner and Lisa Turner, Adam Dale Turner and Anna Maria Walters and James Walters by Deed dated July 30, 2016 and recorded August 2, 2016 in Deed Book 340, Page 241.

PARCEL 2:

A certain tract or parcel of land located in Adair County, Kentucky, described as follows:

BEGINNING at a stone at Sulphra Creek, J.D. Turner's corner thence with the meanders of the said Sulphra Creek as follows, N 41 E 158 poles; N 23 ½ W 11 poles; N 64 ½ W 30 poles N 81 W 10 poles; S 47 W 74 poles; S 40 W 18 poles; S 86 W 34 poles; N 78 W 59 poles; S 75 W to the corner of Green Hills Subdivision property thence with the line of Green Hills Subdivision property S 55 E approximately 140 poles to the stone at Sulphra Fork creek the point of beginning and containing 70 acres more or less and being the same property conveyed to the first party by deed from Beulah Turner, et al of date 4th November, 1961 and recorded in Deed Book No 93 Page 322.

AND BEING the same property conveyed to David Bowman from Sandra Kaye Bowman by Deed dated May 21, 2007 and recorded May 22, 2007 in Deed Book 299, Page 188.

Tax Parcel No. 063-00-00-055.00

VzW Site Name: CK Columbia Capacity
Location Code: 689708
Atty: Coots Henke & Wheeler, P.C.: Daniel E. Coots

EXHIBIT "B"

SITE PLAN OF THE PREMISES AND DESCRIPTION OF TOWER EQUIPMENT



CELCO PARTNERSHIP
PMA



PRELIMINARY
NOT FOR
CONSTRUCTION

LEASE EXHIBIT

REV.	DATE	DESCRIPTION
A	10.15.21	ISSUED FOR REVIEW

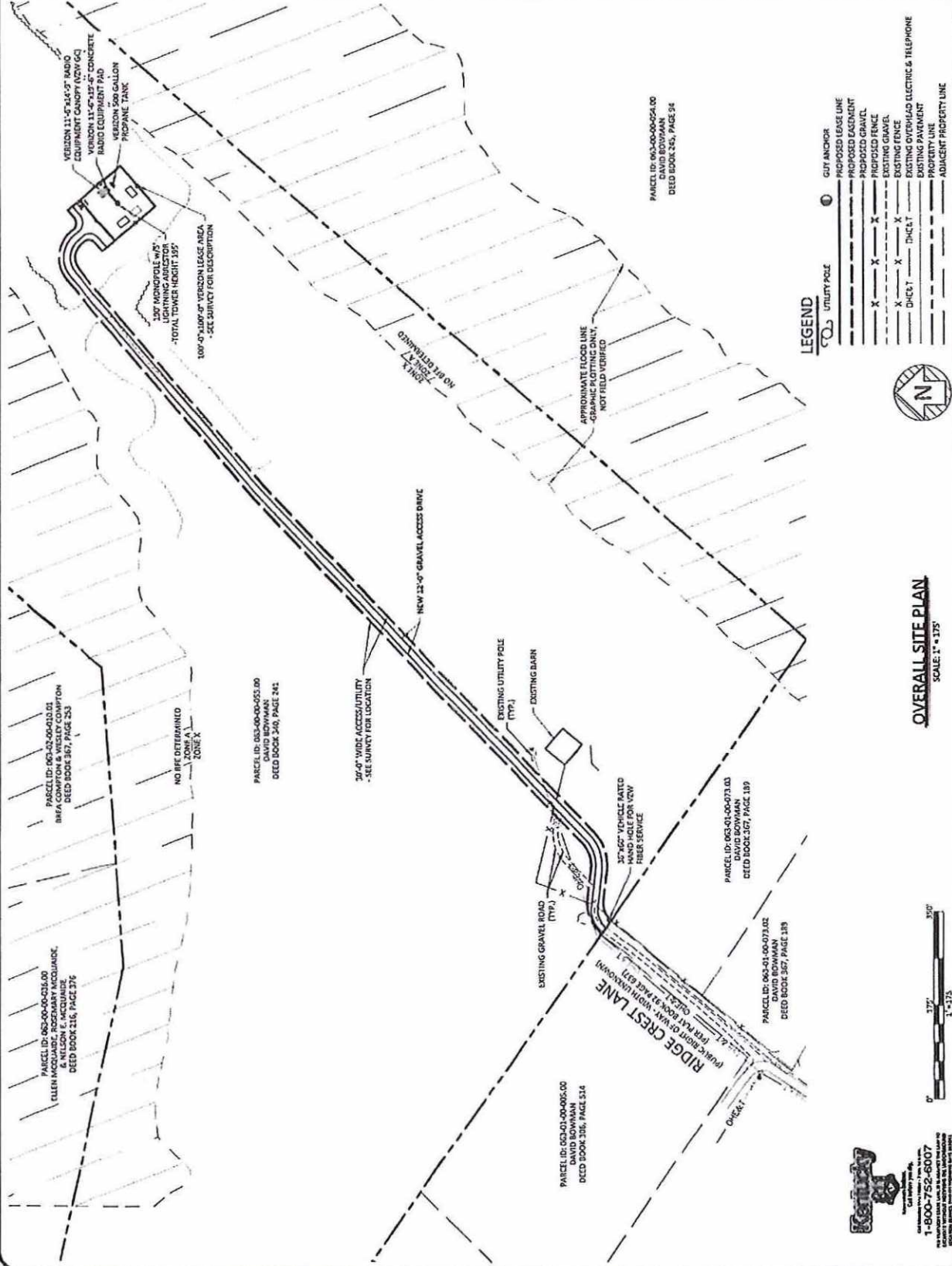
SITE INFORMATION:

CK COLUMBIA
CAPACITY
425 RIDGE CREST LANE
COLUMBIA, KY 42728
ADAIR COUNTY

POD NUMBER: 21-102860
DRAWN BY: POD
CHECKED BY: MFP
DATE: 10.13.21

OVERALL SITE PLAN

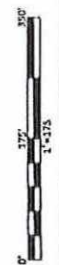
SHEET NUMBER:
C-1A



- LEGEND**
- UTILITY POLE
 - GLT ANCHOR
 - PROPOSED LEASE LINE
 - PROPOSED EASEMENT
 - PROPOSED GRAVEL
 - PROPOSED FENCE
 - EXISTING GRAVEL
 - EXISTING FENCE
 - EXISTING ROAD ELECTRIC & TELEPHONE
 - EXISTING EASEMENT
 - PROPERTY LINE
 - ADJACENT PROPERTY LINE



OVERALL SITE PLAN
SCALE: 1" = 175'



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CELCO PARTNERSHIP
DBA



PRELIMINARY
NOT FOR
CONSTRUCTION

LEASE EXHIBIT

REV.	DATE	DESCRIPTION
A	10.31.21	ISSUED FOR REVIEW

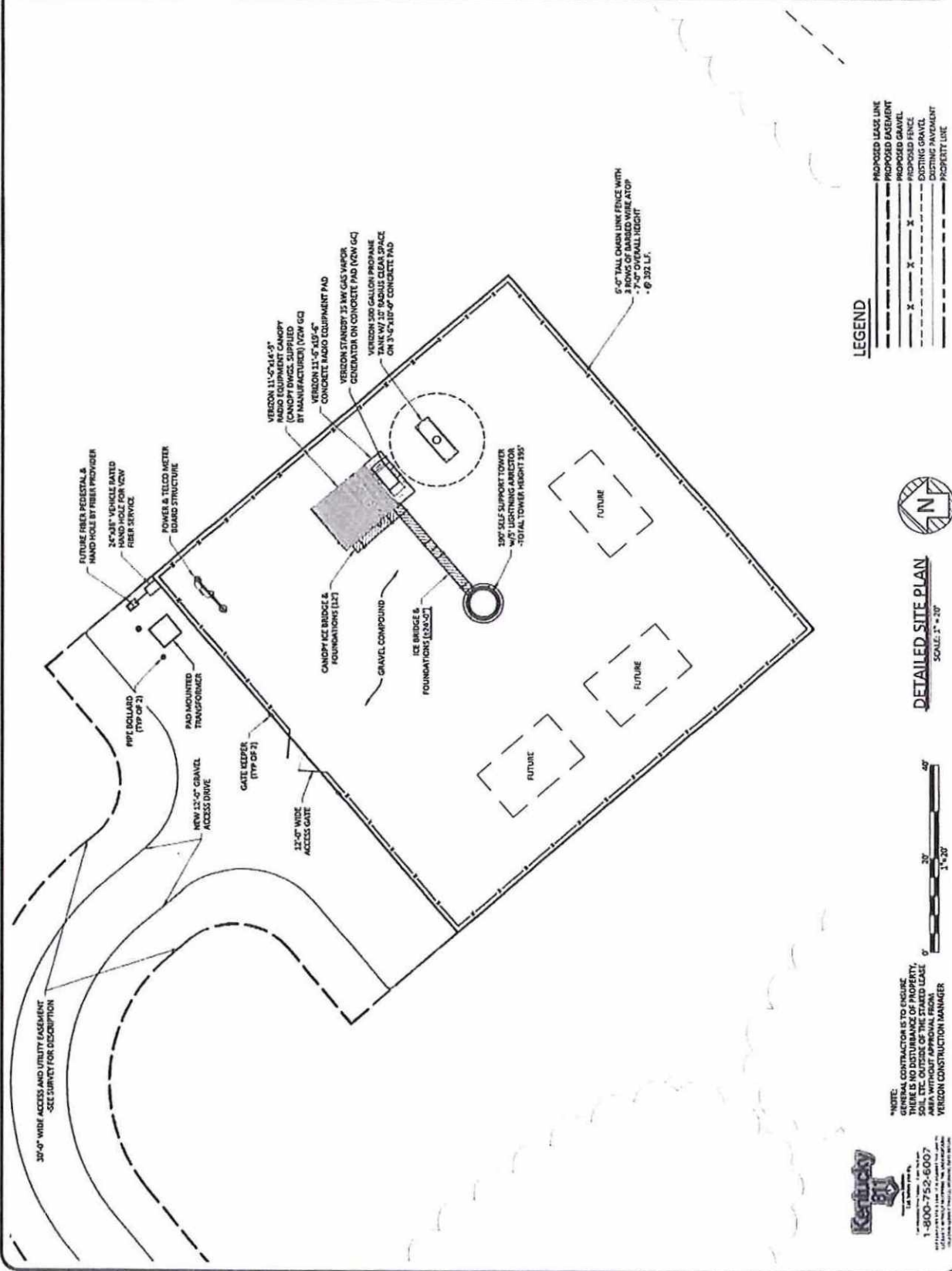
SITE INFORMATION:

**CK COLUMBIA
CAPACITY**
400 BRIDGE CREST LANE
COLUMBIA, KY 42228
ADAIR COUNTY

POD NUMBER:	21-102880
DRAWN BY:	POD
CHECKED BY:	POD
DATE:	10.31.21

SHEET TITLE:
DETAILED SITE PLAN

SHEET NUMBER:
C-3



LEGEND

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



DETAILED SITE PLAN
SCALE: 1" = 20'



*NOTE:
GENERAL CONTRACTOR IS TO ENSURE
THERE IS NO DISTURBANCE OF PROPERTY,
ADJACENT AREAS OR TO LEASE
AREA WITHOUT APPROVAL FROM
VERIZON CONSTRUCTION MANAGER





PRELIMINARY
NOT FOR
CONSTRUCTION

LEASE EXHIBIT

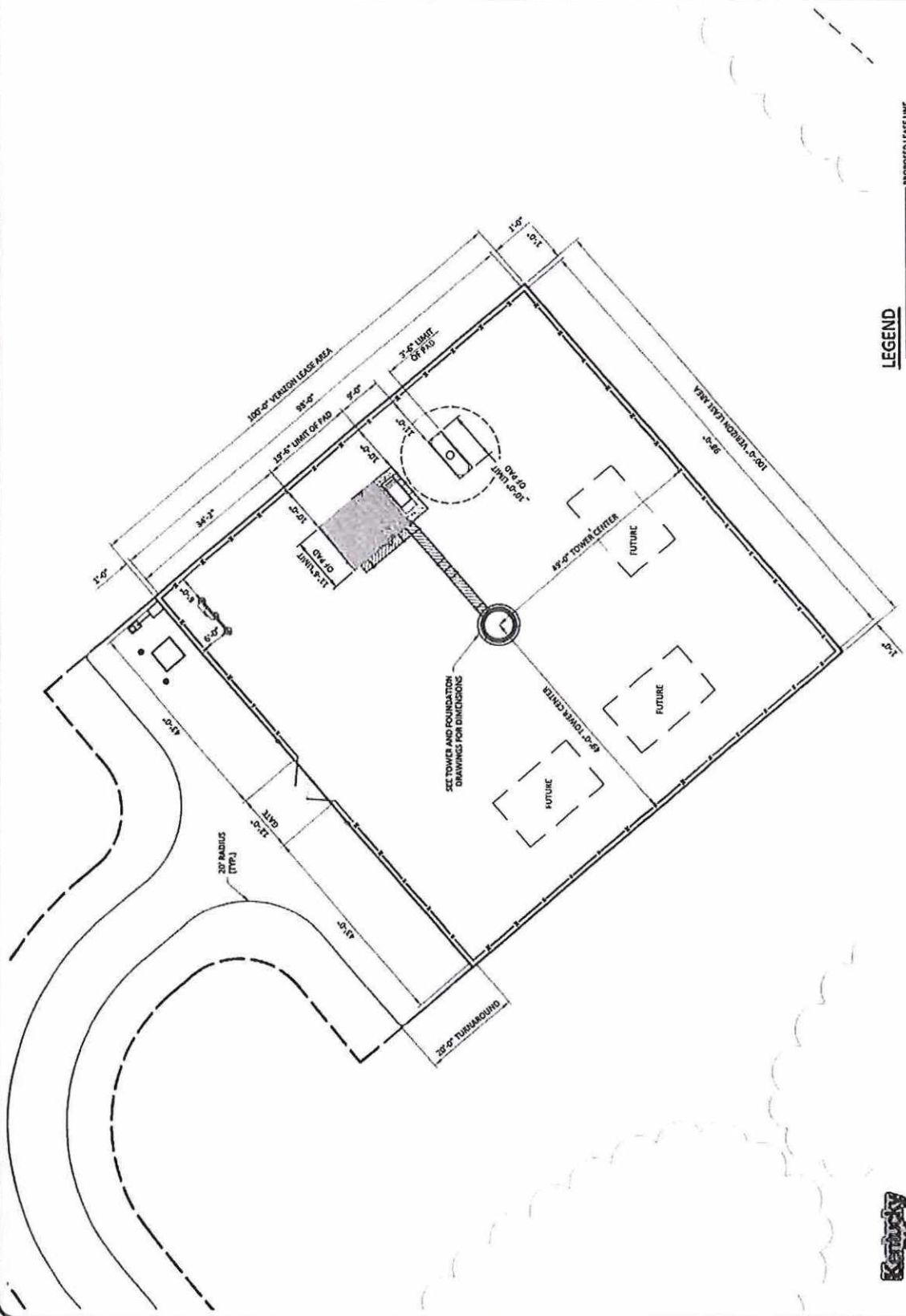
REV	DATE	DESCRIPTION
A	10.15.21	ISSUED FOR REVIEW

SITE INFORMATION:

CK COLUMBIA
CAPACITY
420 RIDGE CREST LANE
COLUMBIA, KY 42728
ADAM COUNTY

POD NUMBER: 21-102860
DRAWN BY: POD
CHECKED BY: MDP
DATE: 10.15.21
SHEET TITLE:
DIMENSIONED SITE PLAN

SHEET NUMBER:
C-4



LEGEND

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



DIMENSIONED SITE PLAN
SCALE: 1" = 20'



NOTE:
GENERAL CONTRACTOR IS TO ENSURE
THERE IS NO DISTURBANCE OF PROPERTY,
SOIL ETC. OUTSIDE OF THE STRADDLE LEASE
AREA. CONTACT VERIZON CONSTRUCTION MANAGER
FOR MORE INFORMATION.





POD POWER OF DESIGN
 31490 BLUEGRASS PARKWAY
 LOUISVILLE, KY 40299
 502-937-5822

CELCO PARTNERSHIP
 ONIA



PRELIMINARY
 NOT FOR
 CONSTRUCTION

LEASE EXHIBIT

REV.	DATE	DESCRIPTION
A	10.15.21	ISSUED FOR REVIEW

SITE INFORMATION:

CK COLUMBIA
 CAPACITY
 420 RIDGE CREST LAKE
 COLUMBIA, KY 42228
 JARVIS COUNTY

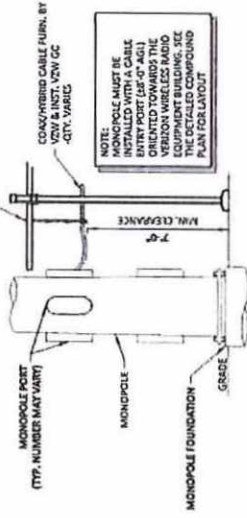
POD NUMBER:	21-1022860
DRAWN BY:	DDP
CHECKED BY:	MDP
DATE:	10.15.21

SHEET TITLE:

TOWER ELEVATION

SHEET NUMBER:
TE-1

NOTE:
 1. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL ANTENNA INFORMATION AGAINST FINAL RADIO ENGINEERING PLAN PROVIDED BY CELCO PARTNERSHIP (FSA-VERIZON (VZW GC))

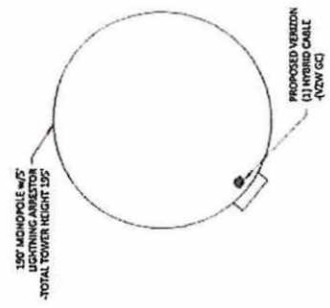


NOTE:
 MONOPOLE MUST BE INSTALLED WITH A CABLE ENTRY PORT (18"-Ø AGU) ORIENTED TOWARDS THE EQUIPMENT BUILDING. SEE THE DETAILED COMPOUND PLAN FOR LAYOUT

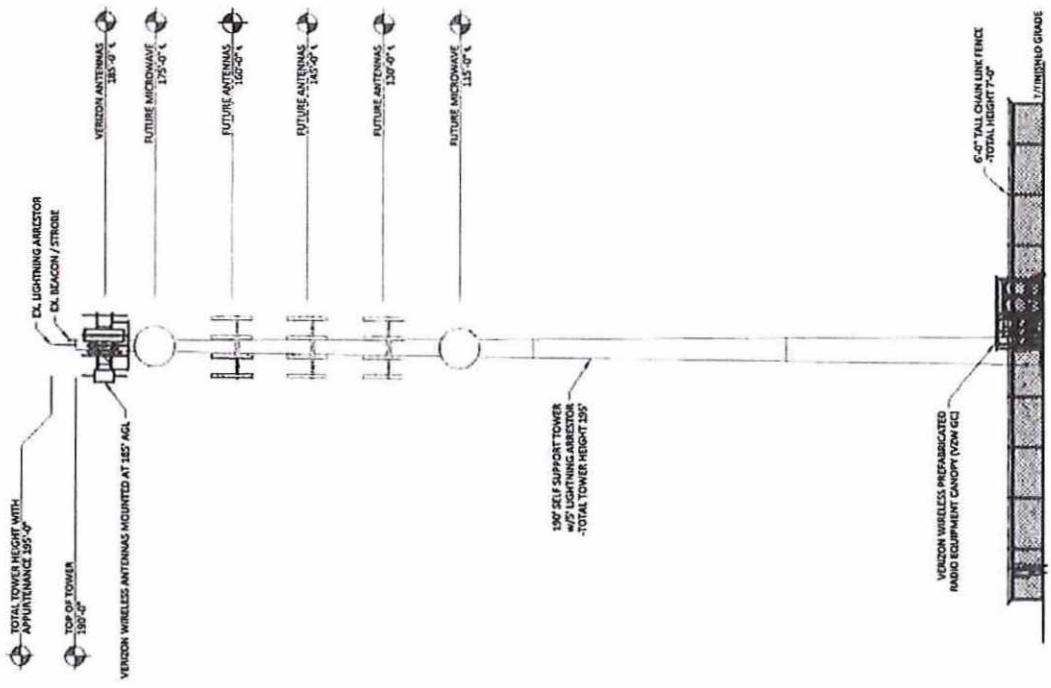
NOTE:
 VERIZON WIRELESS CABLING MUST BE INSTALLED ON THE INTERIOR OF MONOPOLE. SEE THE DETAILED CABLE ENTRY PORT (18"-Ø AGU) UNLESS NOTED OTHERWISE

2
TE-1

MONOPOLE PORT HYBRID CABLE INSTALLATION DETAIL
 SCALE: N.T.S.



COAX PLAN
 SCALE: N.T.S.



1
TE-1

TOWER ELEVATION
 SCALE: N.T.S.



PRELIMINARY
NOT FOR
CONSTRUCTION

LEASE EXHIBIT

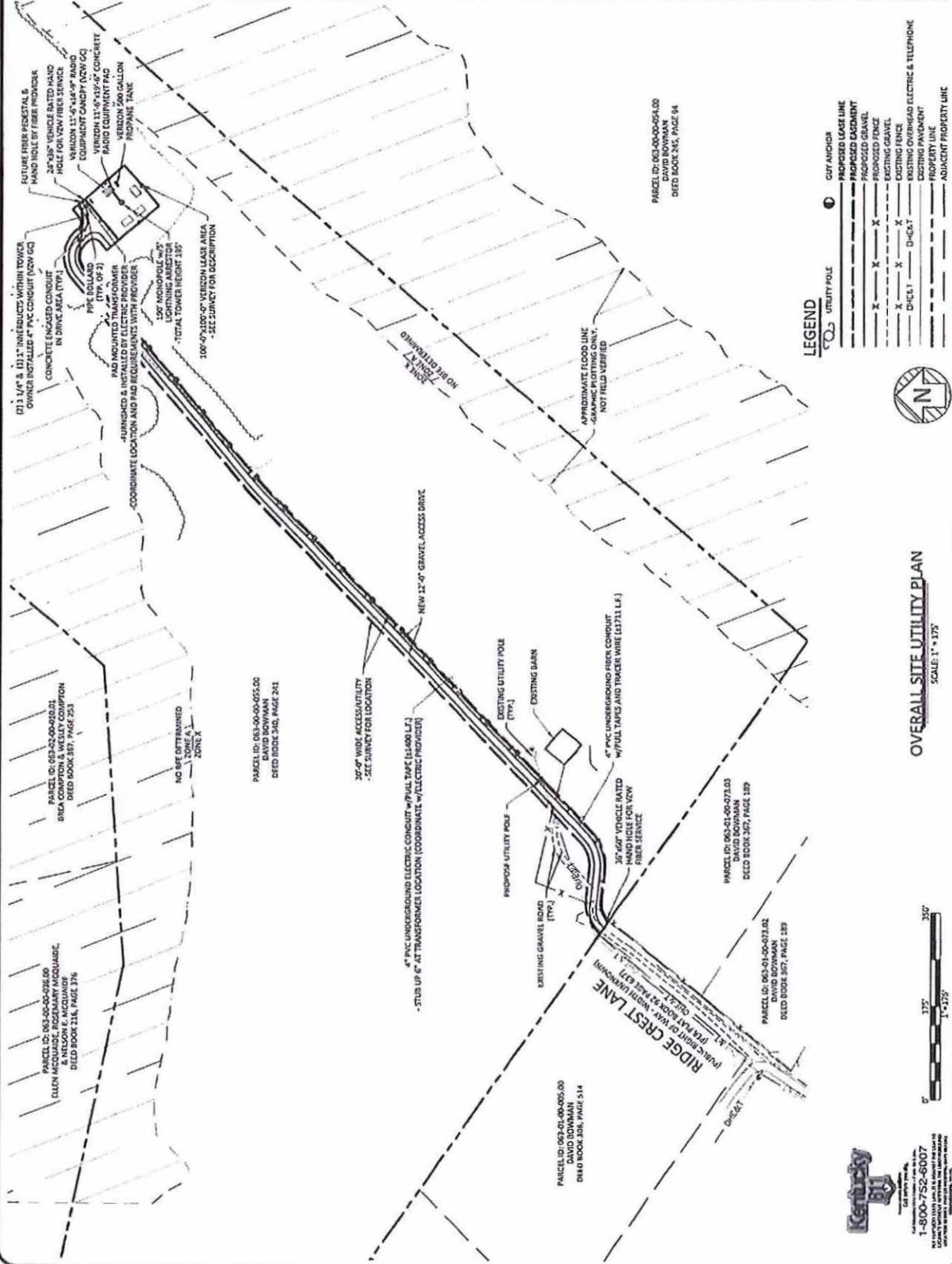
REV.	DATE	DESCRIPTION
A	10.15.21	ISSUED FOR REVIEW

SITE INFORMATION:
**CK COLUMBIA
CAPACITY**
429 RIDGE CREST LAKE
COLUMBIA, KY 40228
JARRI COUNTY

POD NUMBER: 21-102560
DRAWN BY: POD
CHECKED BY: MTP
DATE: 10.15.21

SHEET TITLE:
**OVERALL SITE
UTILITY PLAN**

SHEET NUMBER:
E-0



FUTURE FIBER PEGETALS & HAND HOLE BY FIBER PROVIDER
23" 60" VEHICLE BATED HAND HOLE FOR NEW FIBER SERVICE
VERIZON 11" 6" 1/4" 6" RADIO EQUIPMENT CATCH (NEW GC)
VERIZON 11" 6" 1/4" 6" CONCRETE RADIO EQUIPMENT PAD
VERIZON 500 GALLON FIBER TANK
PVC DOLLARD (TYP. OF 2)
PAD MOUNTED 10' TOWER
-JUNCTIONED & INSTALLED BY ELECTRIC PROVIDER
-COORDINATE LOCATION AND PAD REQUIREMENTS WITH PROVIDER
150' MONOPOLE W/ LIGHTNING ARRESTOR
-TOTAL TOWER HEIGHT 135'
100'-0" 0" 0" BY VERIZON LAKE AREA
-SEE SHEET FOR OCCUPATION

(2) 1 1/4" & (1) 1 1/2" IN REDUCES WITHIN TOWER
CONCRETE ENCASED CONDUIT IN DRIVE AREA (TYP.)
100'-0" 0" 0" BY VERIZON LAKE AREA
-SEE SHEET FOR OCCUPATION

APPROXIMATE FLOOD LINE -GAINING PORTING ONLY, NOT FIELD VERIFIED

NO REF. OFF BEHIND ZONE X

30" 4" VEHICLE BATED W/ FIBER SERVICE
4" PVC UNDERGROUND FIRE CONDUIT W/ FUL TAPS AND TRACER WIRE (31711 LF.)
EXISTING UTILITY POLE (TYP.)
EXISTING MAN
NEW 12" 6" GRAVEL ACCESS DRIVE

4" PVC UNDERGROUND ELECTRIC CONDUIT -PULL TANK (11460 LF.)
-STUB UP 6" AT TRANSFORMER LOCATION (COORDINATE W/ ELECTRIC PROVIDER)

30" 4" VEHICLE BATED W/ FIBER SERVICE
4" PVC UNDERGROUND FIRE CONDUIT W/ FUL TAPS AND TRACER WIRE (31711 LF.)
EXISTING UTILITY POLE (TYP.)
EXISTING MAN

NO REF. OFF BEHIND ZONE X
PARCEL ID: 063-00-00-075.00
DAVID BOWMAN
DEED BOOK 360, PAGE 261

PARCEL ID: 063-01-00-073.02
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.03
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.04
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.05
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.06
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.07
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.08
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.09
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.10
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.11
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.12
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.13
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.14
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.15
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.16
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.17
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.18
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.19
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.20
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.21
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.22
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.23
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.24
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DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.25
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PARCEL ID: 063-01-00-073.26
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DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.27
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DEED BOOK 367, PAGE 189

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PARCEL ID: 063-01-00-073.45
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DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.46
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DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.47
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DEED BOOK 367, PAGE 189

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DEED BOOK 367, PAGE 189

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PARCEL ID: 063-01-00-073.51
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DEED BOOK 367, PAGE 189

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DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.57
DAVID BOWMAN
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DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.59
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.60
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.61
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.62
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.63
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.64
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.65
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.66
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.67
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.68
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.69
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.70
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.71
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.72
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.73
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.74
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.75
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.76
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.77
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.78
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.79
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.80
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.81
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.82
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.83
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.84
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.85
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.86
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.87
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.88
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.89
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.90
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.91
DAVID BOWMAN
DEED BOOK 367, PAGE 189

PARCEL ID: 063-01-00-073.92
DAVID BOWMAN
DEED BOOK 367, PAGE 189

VzW Site Name: CK Columbia Capacity
Location Code: 689708
Atty: Coots Henke & Wheeler, P.C.: Daniel E. Coots

EXHIBIT "C"

SURVEY

SITE SURVEY		
REV.	DATE	DESCRIPTION
A	5.16.21	PRELIMINARY

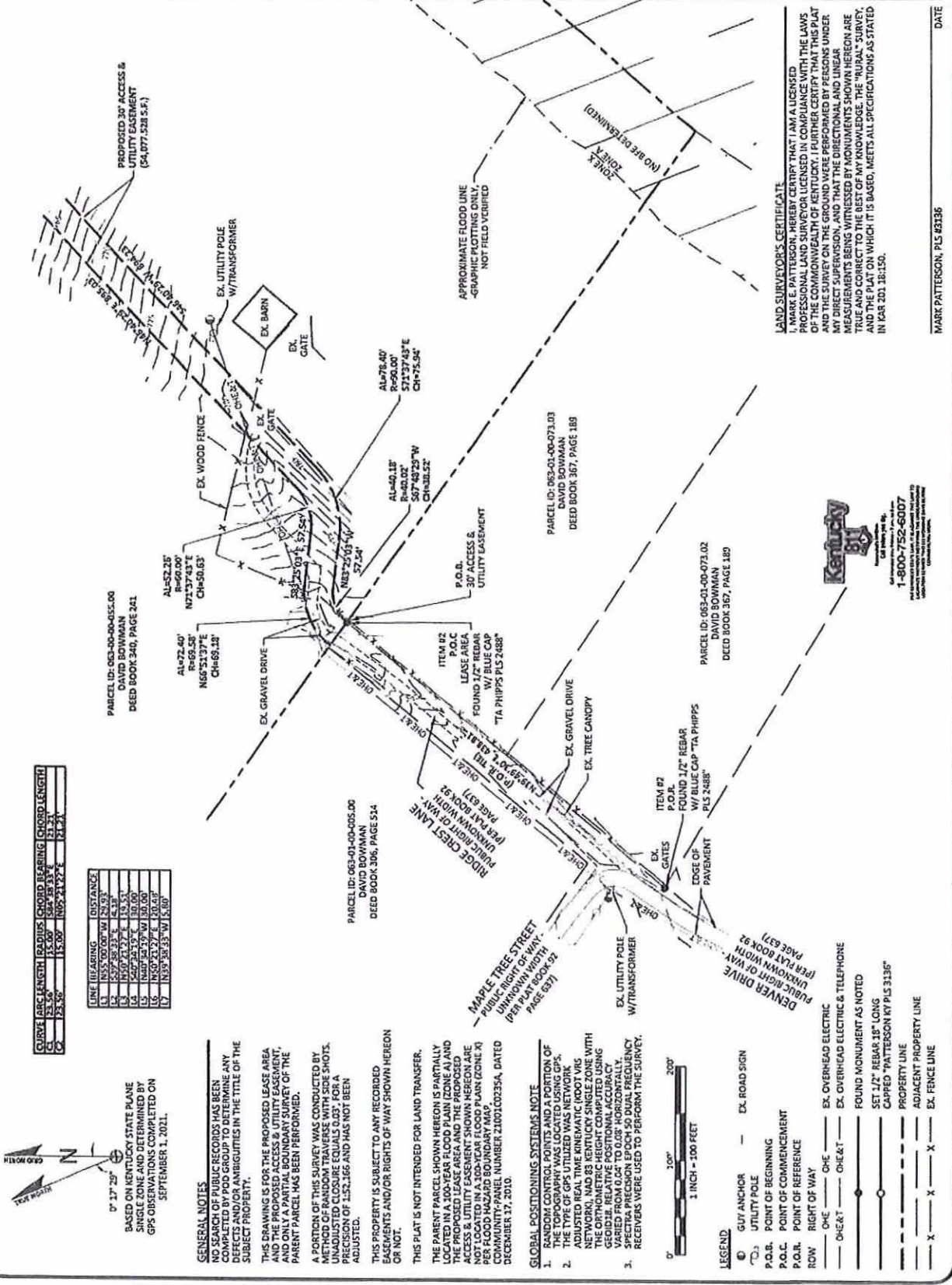
SITE INFORMATION:
CK COLUMBIA CAPACITY
420 RIDGE CREST LANE
COLUMBIA, KY 42728
ADAIR COUNTY
TAX PARCEL NUMBER:
069-00-00-055.00

PROPERTY OWNER:
DAVID BOWMAN
420 RIDGE CREST LANE
COLUMBIA, KY 42728
SOURCE OF TITLE:
DEED BOOK 340, PAGE 241

POD NUMBER: 21-102853
DRAWN BY: AWW
CHECKED BY: MEB
SURVEY DATE: 5.16.21
PLAY DATE: 5.16.21

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

SHEET NUMBER: (5 pages)
B-1.1



CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
1	23.56	15.00	S84°58'33"W	21.21
2	23.56	15.00	N02°21'22"E	21.21

LINE BEARING	DISTANCE
N75°29'00"W	24.93
S84°58'33"W	15.00
N02°21'22"E	15.51
S84°58'33"W	15.00
N02°21'22"E	15.51
S84°58'33"W	15.00
N02°21'22"E	15.51
S84°58'33"W	15.00
N02°21'22"E	15.51
S84°58'33"W	15.00

0° 17' 30"
TRUE NORTH
GRID NORTH

BASED ON KENTUCKY STATE PLANE
SURVEYING SYSTEM
COMPLETED BY
GPS OBSERVATIONS, COMPLETED ON
SEPTEMBER 1, 2021.

GENERAL NOTES
1. THIS SURVEY RECORD HAS BEEN COMPLETED BY POD GROUP TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE SUBJECT PROPERTY.
2. THIS DRAWING IS FOR THE PROPOSED LEASE AREA AND ONLY A PARTIAL BOUNDARY SURVEY OF THE PARENT PARCEL HAS BEEN PERFORMED.
3. A PORTION OF THIS SURVEY WAS CONDUCTED BY UNLICENSED PERSONS WHOSE QUALIFICATIONS, SKILLS, UNADJUSTED CLOSURE EQUALS 0.03" FOR A 1000' DISTANCE AND HAS NOT BEEN ADJUSTED.
4. 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 SHOWN HEREON IS PARTIALLY LOCATED IN A 100-YEAR FLOOD PLAIN (ZONE A) AND THE PROPOSED LEASE AREA AND THE PROPOSED ACCESS & UTILITY EASEMENT SHOWN HEREON ARE ALSO PARTIALLY LOCATED IN A 100-YEAR FLOOD PLAIN (ZONE A).
THIS SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING STANDARDS AND PRACTICES OF THE SURVEYING PROFESSION AS SET FORTH IN THE SURVEYING ACT OF 2010, AS AMENDED.
COMMUNITY PANEL NUMBER 210010225A, DATED DECEMBER 17, 2010.

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 (ROTKING) WITH THE OPERATING HEIGHT CORRECTED USING GEODID3. RELATIVE POSITIONAL ACCURACY VARIED FROM 0.04" TO 0.08" HORIZONTALLY. SPECTRA PRECISION EPOCH 50 DUAL FREQUENCY RECEIVERS WERE USED TO PERFORM THE SURVEY.



- LEGEND**
- ⊙ GUY ANCHOR
 - ⊙ UTILITY POLE
 - P.O.B. POINT OF BEGINNING
 - P.O.C. POINT OF COMMENCEMENT
 - P.O.R. POINT OF REFERENCE
 - ROW RIGHT OF WAY
 - OHE ONE OVERHEAD ELECTRIC
 - OHE&T ONE OVERHEAD ELECTRIC & TELEPHONE
 - FOUND MONUMENT AS NOTED
 - SET 1/2" REBAR 36" LONG CAPPED "PATTERSON KY PLS 3136"
 - PROPERTY LINE
 - ADJACENT PROPERTY LINE
 - X — EX. FENCE LINE

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 CLOSE PERSONAL SUPERVISION AND THAT THE MEASUREMENTS, CALCULATIONS, AND MEASUREMENTS BEING WITNESSED BY ME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. THE "MIRAL" SURVEY AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECIFICATIONS AS STATED IN KAR 201.10-150.

1-800-752-6007
MARK PATTERSON, PLS #5336

DATE

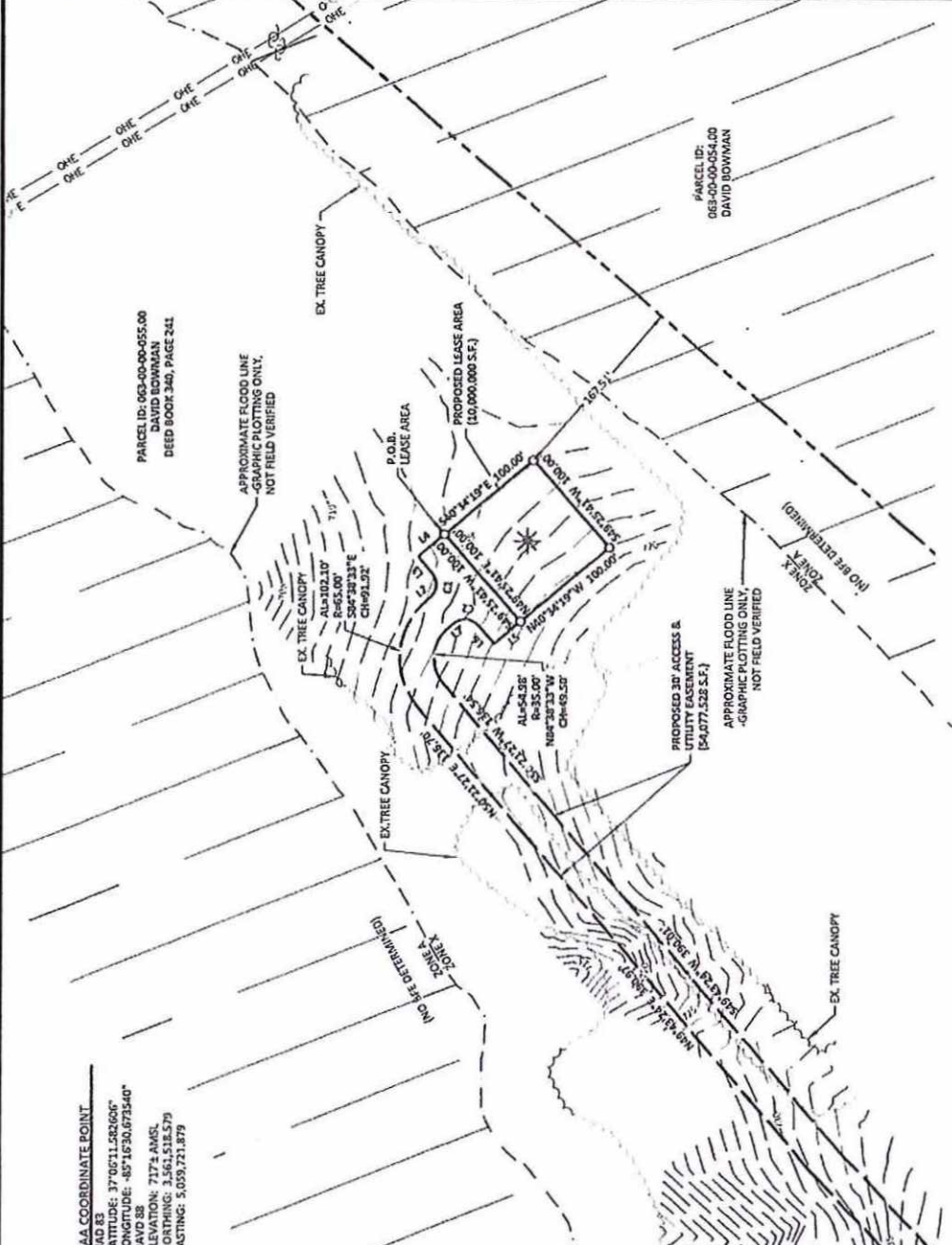


REV.	DATE	DESCRIPTION
A	09.16.21	PRELIM ISSUE

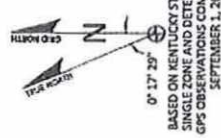
SITE INFORMATION:
CK COLUMBIA CAPACITY
 420 RIDGE CREST LANE
 COLUMBIA, KY 42728
 ADAIR COUNTY
 TAX PARCEL NUMBER:
 069-00-00-055.00
 PROPERTY OWNER:
 DAVID BOWMAN
 420 RIDGECREST LANE
 COLUMBIA, KY 42728
 SOURCE OF TITLE:
 DEED BOOK 340, PAGE 241

POD NUMBER: 21-10283-1
 DRAWN BY: A.W.
 CHECKED BY: M.E.P.
 SURVEY DATE: 9.1.21
 PLAT DATE: 9.16.21

SHEET TITLE:
SITE SURVEY
 THIS DOES NOT REPRESENT A BOUNDARY OF THE PARENT PARCEL.
 SHEET NUMBER: (5 pages)
B-1.3



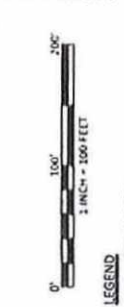
FAA COORDINATE POINT
 NAD 83
 LATITUDE: 37°06'11.582606"
 LONGITUDE: -85°16'30.073540"
 NAVD 88
 ELEVATION: 717.4 AMSL
 MONTRING: 3.561518579
 FASTING: 3.0391711879



GENERAL NOTES
 NO SEARCH OF PUBLIC RECORDS HAS BEEN MADE BY THE POD GROUP TO DETERMINE ANY DEFECTS OR ENCUMBRANCES IN THE TITLE OF THE SUBJECT PROPERTY.
 THIS DRAWING IS FOR THE PROPOSED LEASE AREA AND THE PROPOSED ACCESS & UTILITY EASEMENT, AND THE PROPERTY BOUNDARIES SHOWN ARE THE PROPERTY BOUNDARIES OF THE PARENT PARCEL HAS BEEN PERFORMED.
 A PORTION OF THIS SURVEY WAS CONDUCTED BY UNLICENSED MEASUREMENTS EQUIVALENT WITH SIDE SHOTS. UNLESS OTHERWISE NOTED, ALL MEASUREMENTS ARE TO A PRECISION OF 1:32,166 AND HAS NOT BEEN ADJUSTED.
 THIS PROPERTY IS SUBJECT TO ANY RECORDED ENCUMBRANCES AND/OR RIGHTS OF WAT SHOWN HEREON OR NOT.

THIS PLAT IS NOT INTENDED FOR LAND TRANSFER.
 THE PARENT PARCEL SHOWN HEREON IS PARTIALLY LOCATED IN A 100-YEAR FLOOD PLAIN ZONE AND THE PROPOSED LEASE AREA AND THE PROPOSED ACCESS & UTILITY EASEMENT SHOWN HEREON ARE NOT LOCATED IN A 100-YEAR FLOOD PLAIN ZONE (X) PER FLOOD HAZARD BOUNDARY MAP NUMBER 2106020035A, DATED DECEMBER 27, 2010.

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 (KOOT) VRS NETWORK, NAD 83 KENTUCKY SINGLE ZONE WITH REAL TIME CORRECTIONS BEING TRANSMITTED TO THE RECEIVER. RELATIVE POSITIONAL ACCURACY VARIED FROM 0.04" TO 0.08" HORIZONTALLY. SPECTRA PRECISION EPOCH 50 DUAL FREQUENCY RECEIVERS WERE USED TO PERFORM THE SURVEY.



CURVE	ARC LENGTH	INSIDE CHORD BEARING	CHORD LENGTH
C1	18.56'	S86°28'33"E	24.24'
C2	18.56'	N05°24'27"E	24.24'

LINE	BEARING	DISTANCE
L1	N55°00'00"W	128.93'
L2	S55°00'00"E	64.47'
L3	N00°00'00"E	128.93'
L4	S00°00'00"W	64.47'
L5	N00°00'00"E	128.93'
L6	N00°00'00"E	128.93'
L7	N95°28'33"W	15.60'

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 AND CALCULATIONS THEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. THE "HURRAH" SURVEY AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECIFICATIONS AS STATED IN KAR 201.18.150.



MARK PATTERSON, PLS #83238
 DATE

Notification Listing

BOWMAN DAVID E
420 RIDGECREST LN
COLUMBIA, KY 42728

HAYNES MARY ESTATE
96 MAPLE TREE ST
COLUMBIA, KY 42728

WOOLEY ANDREW S
70 MAPLE TREE ST
COLUMBIA, KY 42728

SMITH BETTY
10 MAPLE TREE ST
COLUMBIA, KY 42728

LOY DENNIS & LISA
PO BOX 585
COLUMBIA, KY 42728

MCQUAIDE NELSON & SHANNON NEAT &
RYAN HARRIS
1271 LIBERTY RD
COLUMBIA, KY 42728-

MCQUAIDE ELLEN/ROSEMARY/NELSON
% EDDIE MCQUAIDE
1271 LIBERTY ROAD
COLUMBIA, KY 42728

MCQUAIDE NELSON & EDDIE
1271 LIBERTY RD
COLUMBIA KY., 42728

MCQUAIDE NELSON E
1271 LIBERTY RD
COLUMBIA, KY 42728-2100

BURTON MARTHA ANN
63 CLIFTY VIEW RD
COLUMBIA, KY 42728

GREEN AMANDA TELA MICHELLE
C/O BANK OF COLUMBIA
PO BOX 849
COLUMBIA, KY 42728

GREEN K TODD & DONNA
1530 LIBERTY RD
COLUMBIA, KY 42728

JACKSON BRITTAIN & CAITLIN
311 JESSIE MURRELL RD
COLUMBIA, KY 42728

WILLIS WILLIAM C & BESSIE
2160 LIBERTY ROAD
COLUMBIA KY., 42728

COX GARY & WILLIAM SEXTON
433 E 80 DR
COLUMBIA, KY 42728

HADLEY TERRY & RITA
625 EAST 80 DRIVE
COLUMBIA, KY 42728

MANN GARY & BRENDA
1328 GREENHILLS RD
COLUMBIA, KY 42728

HIMES BOBBY & MARGIE ERLINE JOINT
REVOCABLE LIVING TRUST AGREEMENT
100 EAST VINE ST STE 501
LEXINGTON, KY 40507

LOY DENNIS & LISA
PO BOX 397
COLUMBIA, KY 42728-

MARTIN HALEY & ASHER & AVERY
75 DENVER DR
COLUMBIA, KY 42728

MARTIN DAVID G & CATHY
506 YOUNG ST
COLUMBIA, KY 42728

BAKER DULATH A & BARBARA
742 GREENHILLS RD
COLUMBIA KY., 42728

CRAVENS PHILLIP & TALITHA
%FIRST AMERICAN REAL EST TAX S
1 FIRST AMERICAN WAY*MC DFW 4-3/ESCR
WESTLAKE, TX 76262

PARTIN TIMOTHY &
WILLIAM TYLER PARTIN
212 MOSELEY DR
COLUMBIA, KY 42728

HARRIS HOWARD & LINDA
109 MAPLE TREE ST
COLUMBIA, KY 42728

LOY DENNIS & LISA
PO BOX 585
COLUMBIA, KY 42728

KEEN MARGUERITE
% UNITED CITIZENS BANK
700 JAMESTOWN STREET
COLUMBIA, KY 42728



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

June 24, 2022

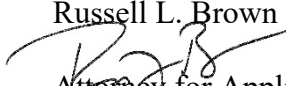
**Notice of Proposed Construction of
Wireless Communications Facility
Site Name: Columbia Capacity**

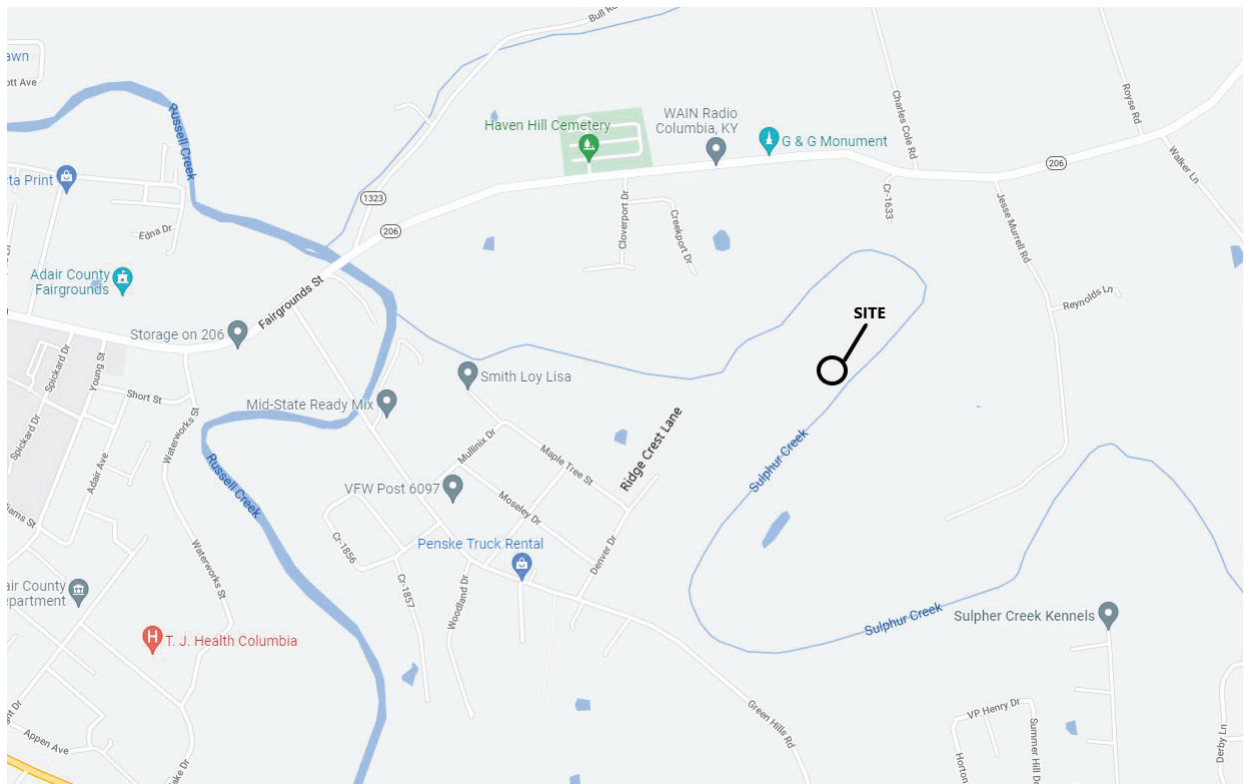
Cellco Partnership, d/b/a Verizon Wireless has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 420 Ridge Crest Lane, Columbia, KY, 42728 (North Latitude: (37° 06' 11.58", West Longitude 85° 16' 30.67"). The proposed facility will include a 190-foot tall antenna tower, plus a 5-foot lightning arrestor, for a total height of 195 feet with related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

This notice is being sent to you because the County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous to the property on which the tower is to be constructed. You have a right to submit testimony to the Kentucky Public Service Commission ("PSC"), either in writing or to request intervention in the PSC's proceedings on the application. You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2022-00193 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/jdj
enclosure





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

VIA CERTIFIED MAIL

June 24, 2022

Hon. Gale B. Cowan
424 Public Square, Suite 1
Columbia, KY 42728

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2022-000193
Site Name: Columbia Capacity

Dear Judge Cowan:

Cellco Partnership, d/b/a Verizon Wireless has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 420 Ridge Crest Lane, Columbia, KY, 42728 (North Latitude: (37° 06' 11.58", West Longitude 85° 16' 30.67"). The proposed facility will include a 190-foot tall antenna tower, plus a 5-foot lightning arrestor, for a total height of 195 feet with related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

You have a right to submit comments to the PSC or to request intervention in the PSC's proceedings on the application. You may contact the PSC at: Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2022-00193 in any correspondence sent in connection with this matter.

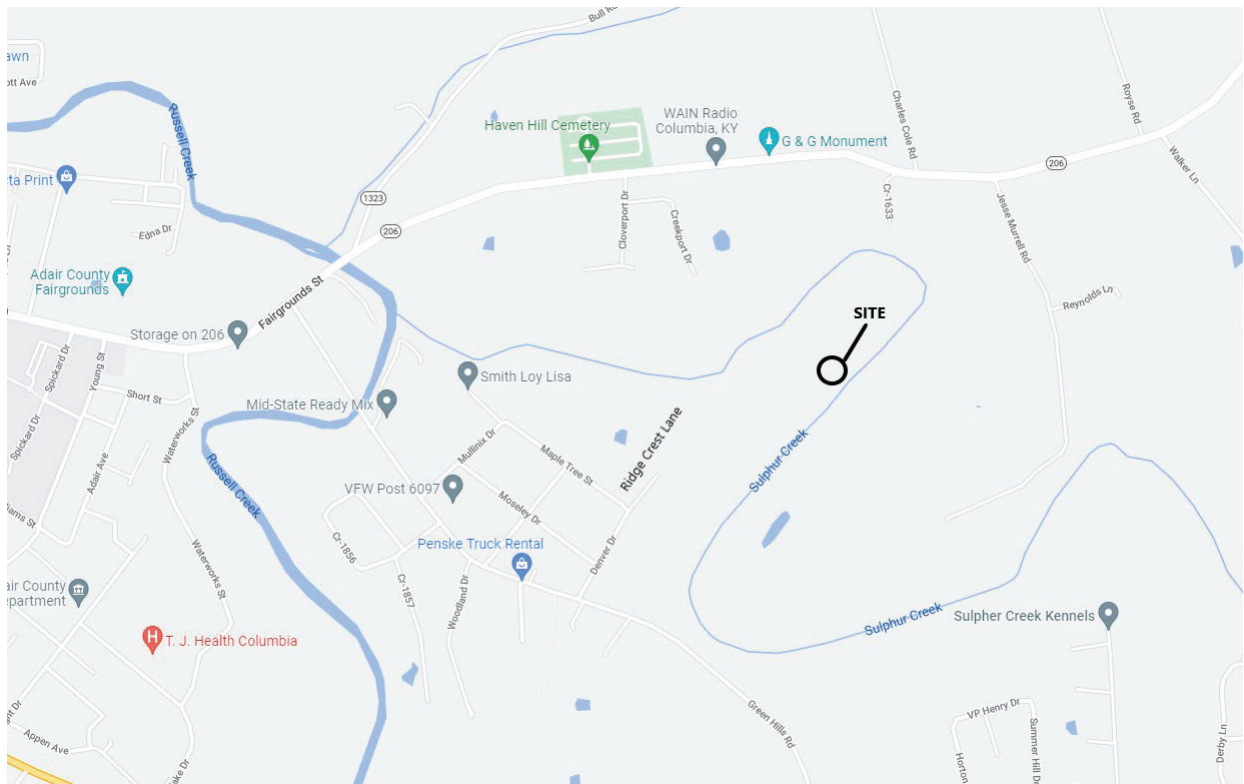
We have attached a map showing the site location for the proposed tower. Verizon Wireless' radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact us with any comments or questions you may have.

Sincerely,

A handwritten signature in black ink, appearing to read 'RLB', written over the typed name.

Russell L. Brown
Attorney for Applicants

RLB/jdj
enclosure



SITE NAME: Columbia Capacity 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 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 2022-00193 in your correspondence.

Cellco Partnership, d/b/a Verizon Wireless 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 2022-00193 in your correspondence.

VIA EMAIL: advertising@adairprogress.com

The Adair Progress, Inc.
98 Grant Lane
Columbia, KY 42728

June 23, 2022

RE: Legal Notice Advertisement
Site Name: Columbia Capacity

To Whom it May Concern:

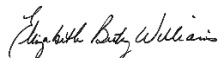
Please publish the following legal notice advertisement in the next available edition of the *Adair Progress*:

NOTICE

Cellco Partnership, d/b/a Verizon Wireless has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 420 Ridge Crest Lane, Columbia, KY, 42728 (North Latitude: (37° 06' 11.58", West Longitude 85° 16' 30.67"). 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 2022-00193 in any correspondence sent in connection with this matter.

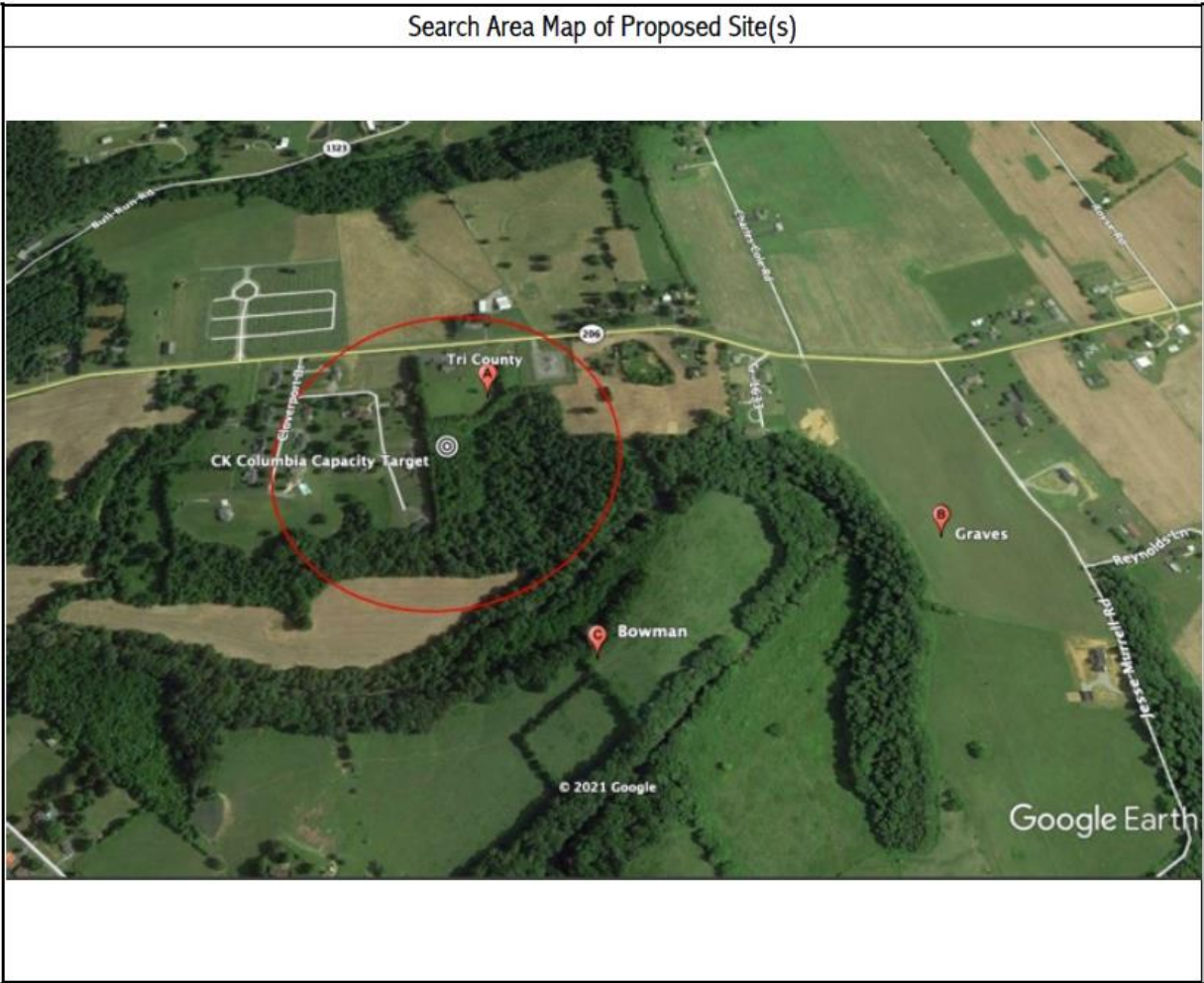
Please let me know how you would like to handle payment. We are happy to pay by credit card, once you have calculated the cost. After this advertisement has been published, please forward a tearsheet copy, affidavit of publication, and invoice to Clark, Quinn, Moses, Scott & Grahn, LLC, 320 N. Meridian Street, Indianapolis, IN 46204 or by email to ebw@clarkquinnlaw.com. Please call me at (317) 637-1321 if you have any questions. Thank you for your assistance.

Sincerely



Elizabeth Bentz Williams
Clark, Quinn, Moses, Scott & Grahn, LLC

Search Area Map





March 15, 2022

RE: Proposed Verizon Wireless Communications Facility
Site Name: CK Columbia Capacity

To Whom It May Concern:

As a radio frequency engineer for Verizon Wireless, I am providing this letter to state the need for the Verizon Wireless site called Columbia Capacity and its compliance to RF emission standards as set by FCC. The Columbia Capacity cell site is necessary to achieve capacity needs in the Columbia area along Liberty Rd, Russell Springs Rd and to the surrounding residential areas. This site is necessary to provide this capacity that cannot be established in any other manner. Columbia Capacity will provide needed capacity to offload the Columbia and Columbia Capacity II sites. The sites are currently operating at or near maximum capacity in this area of the Verizon Wireless Network, limiting the ability of customer access to the network. This new tower is required as there is no other means of providing this service in this area.

Whenever possible, Verizon Wireless seeks out colocation opportunities. Colocation allows Verizon Wireless to increase capacity, coverage and services in a targeted area in a more timely manner and at less cost than building a new raw land site.

The height for the Columbia Capacity site was determined through in-depth terrain modeling as well as signal propagation modeling. Due to the rising and falling terrain combine with the dense wooded area, it was determined that a centerline height of 185 feet was necessary to provide adequate coverage in the area. A lower height would greatly reduce coverage and result in the inability of the Columbia Capacity site to operate properly in the Verizon Network.

The site will provide the quality coverage our customers expect and rely on; Customers will experience access to mobile voice and wireless data services previously unavailable, and support Homeland Security through enhanced 911 services.

This cell site has been designed, and will 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.

RF emission readings at this site in the accessible areas would be well below the applicable limits for FCC Uncontrolled/General Population and FCC Controlled/Occupational environments as outlined in 47 CFR 1.1301 through 1.1319. The site would carry appropriate RF emission signage to the public entering the site area.

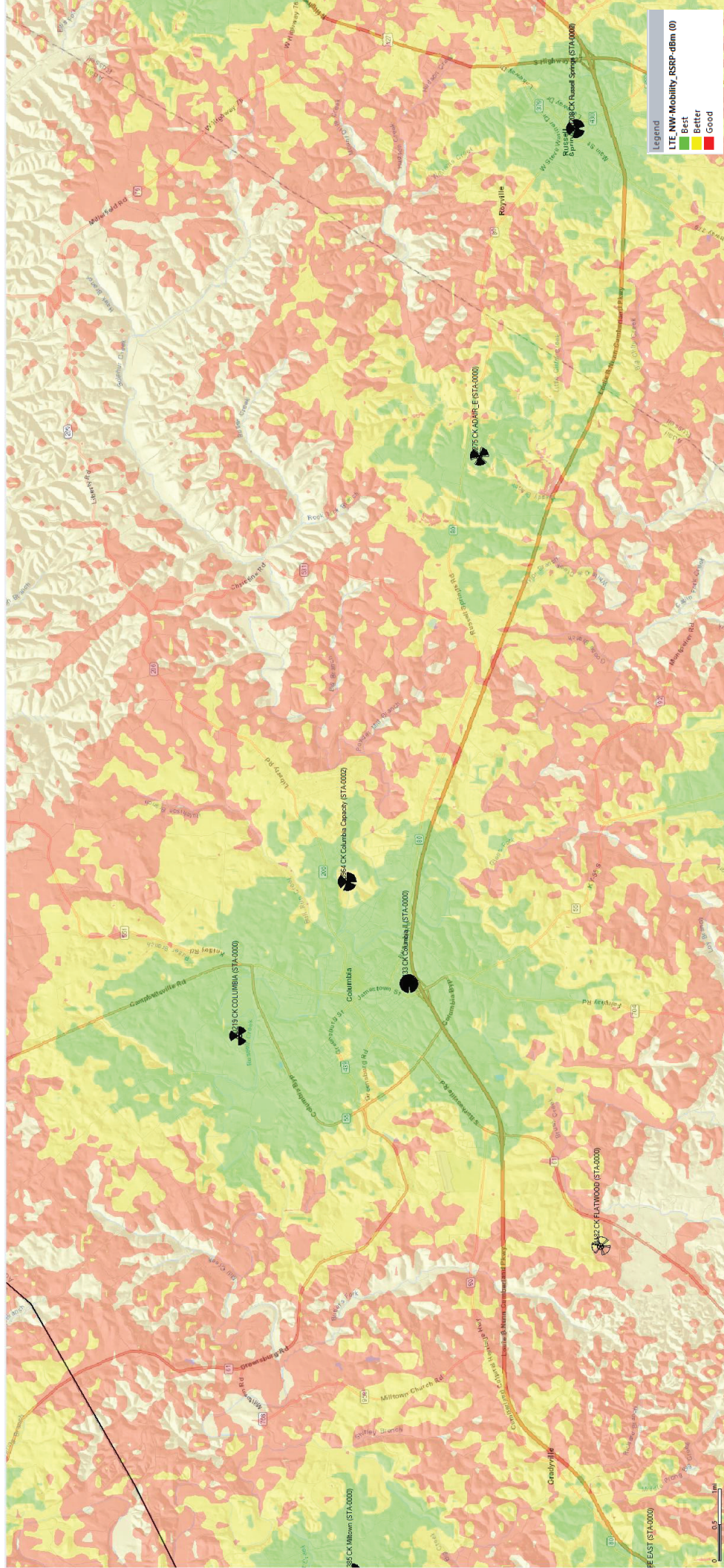
This site would transit frequencies within the licensed frequency bands and the power limitations set by FCC regulatory authority. The site would go through the complete rigorous regulatory process before it comes on-air to provide service to our customers.

Sincerely,

A handwritten signature in black ink, appearing to read "Gordon Snyder". The signature is written in a cursive style with a long horizontal flourish extending to the right.

Gordon Snyder
RF Engineer, Verizon Wireless

Coverage without CK Columbia Capacity



Coverage With CK Columbia Capacity

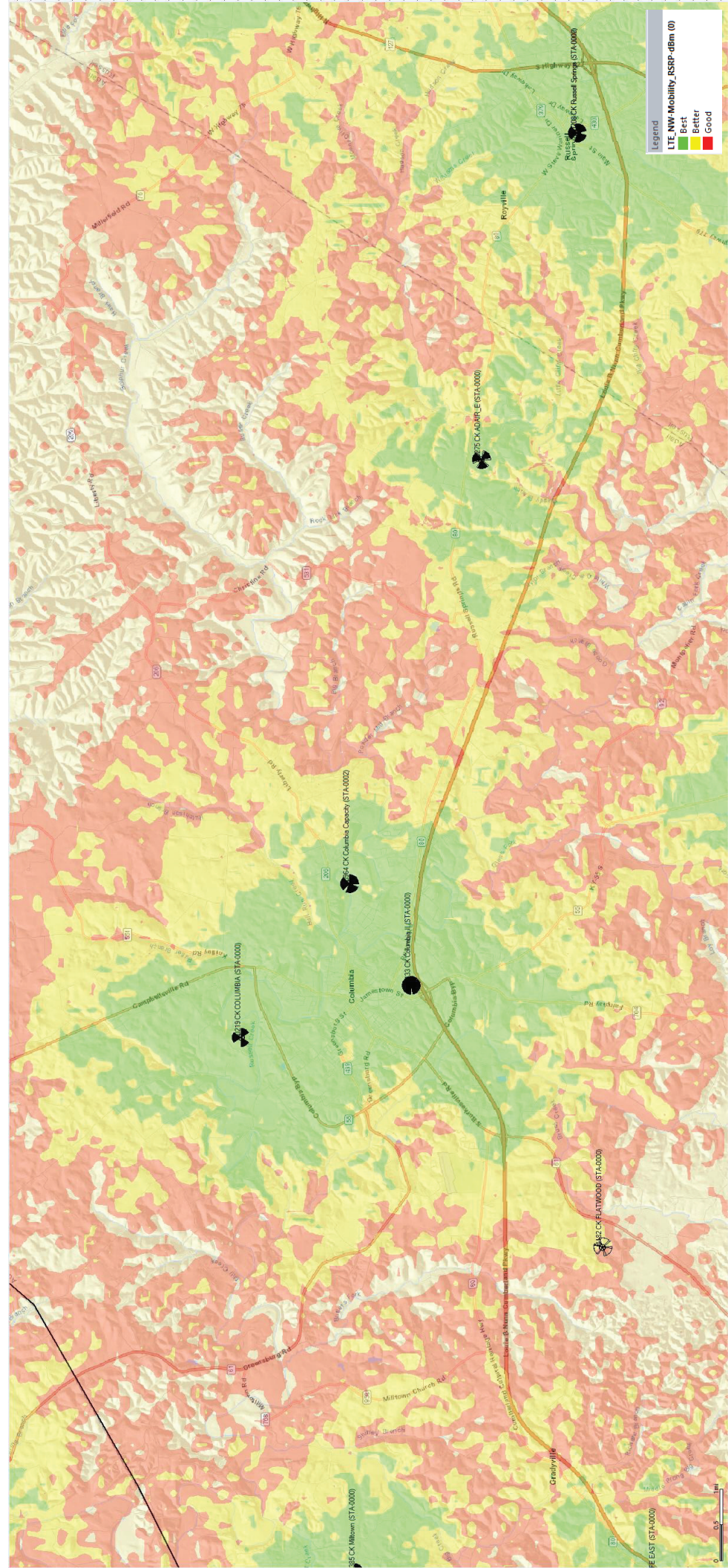


Exhibit R
List and Identity and Qualifications of Professionals

Mark E. Patterson
Professional Land Surveyor
Kentucky License 3136
Power of Design Group, LLC
11490 Bluegrass Parkway
Louisville, KY 40299

Mark E. Patterson
Professional Engineer
Kentucky License 16300
Power of Design Group, LLC
11490 Bluegrass Parkway
Louisville, KY 40299

J. Samuel Vance
Professional Engineer
Geotechnical Manager
Kentucky License 31722
Collier Engineering Co, Inc.
2949 Nolensville Pike
Nashville, TN 37211

David Hill
Professional Engineer
Kentucky License 36244
Saber Communications Corporation
7101 Southbridge Drive, PO Box 658
Sioux City, IA 51102 - 0658

Larry Rhoads
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