

**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. 2022-00220  
CONVENIENCE AND NECESSITY TO CONSTRUCT )  
A WIRELESS COMMUNICATIONS FACILITY )  
IN THE COMMONWEALTH OF KENTUCKY )  
IN THE COUNTY OF MONROE )

SITE NAME: TOMPKINSVILLE

\* \* \* \* \*

**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 2902 Ring Road, Elizabethtown, KY 42701.

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 on Popular Log Church Road, Tompkinsville, KY42167 (36° 42' 24.13" North latitude, 85° 43' 17.68" 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 Kelby

Graves, Kaylin Graves and Kegan Graves pursuant to a Deed recorded at Deed Book 133, Page 210 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 Airways & Airspace Analysis which indicates that a filing with the Federal Aviation Administration (“FAA”) to demonstrate a Determination of No Hazard to Air Navigation is not required due to the height and location of the tower 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 21171C0155A, Dated July 12, 2012.

19. **Exhibit C** includes a map drawn to an appropriate scale that shows the location of the proposed tower and identifies every owner of real estate within 500 feet of the proposed tower (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 363 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.

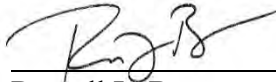
26. All Exhibits to this Application are hereby incorporated by reference as if fully set out as part of the Application.

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](mailto: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,



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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](mailto: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 Federal Airways & Airspace Analysis
- 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



1  
Secretary of State  
Received and Filed  
08/21/2006 12:06:00 PM  
Fee Receipt: \$20.00

CERTIFICATE OF ASSUMED NAME

This certifies that the assumed name of  
Verizon Wireless

(Please Underline in the Blank Space for Assumed Name)

has been adopted by See Addendum

(Please Underline in the Blank Space for 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

The certificate of assumed name is executed by

NYNEX PCS Inc.

*Jane A. Schepker*  
\_\_\_\_\_  
Jane A. Schepker-Assistant Secretary

Print or type name and title  
June 15, 2006

\_\_\_\_\_  
Signature  
\_\_\_\_\_  
Name or type person making this  
\_\_\_\_\_  
Date

0641227.07      dcornish  
 AMD  
 Allison Lundergan Grimes  
 Kentucky Secretary of State  
 Received and Filed  
 1/22/2013 1:43 PM  
 Fee Receipt: \$20.00



COMMONWEALTH OF KENTUCKY  
 ELAINE N. WALKER, SECRETARY OF STATE

Division of Business Filings Business Filings PO Box 718 Frankfort, KY 40602 (502) 584-3490 www.sos.ky.gov	Amended Certificate of Assumed Name (Domestic or Foreign Business Entity)	AAN
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Pursuant to the provisions of KRS 365, the undersigned applies to amend the certificate of assumed name and, for that purpose, submits the following statement:

- The assumed name is Verizon Wireless  
(The name must be identical to the name on record with the Secretary of State.)
- The certificate of assumed name was filed with the Secretary of State on: 6/21/2008
- The current principal office address (if any) is:  
One Verizon Way                      Basking Ridge                      NJ                      07920  
Street Address or Post Office Box Numbers                      City                      State                      Zip
- The principal office address is hereby changed to:  
Street Address or Post Office Box Numbers                      City                      State                      Zip
- This application will be effective upon filing, unless a delayed effective date and/or time is provided. The effective date or the delayed effective date cannot be prior to the date the application is filed. The date and/or time is                       
(Delayed effective date and/or time)
- The changes in the identity of the partners are as follows: See Addendum for current partners

I declare under penalty of perjury under the laws of Kentucky that the foregoing is true and correct.  
 GTE Wireless Incorporated

Jane A. Schapker                      Jane A. Schapker                      Assistant Secretary                      1/21/2012  
Signature of Applicant                      Printed Name                      Title                      Date

### **Addendum**

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

<b><i>General Partners of Cellco Partnership</i></b>	<b><i>Address</i></b>
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 <sup>th</sup> Street, Suite 1750 Denver, CO 80202
JV PartnerCo, LLC	Denver Place South Tower 999-18 <sup>th</sup> Street, Suite 1750 Denver, CO 80202

REFERENCE COPY

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



**Federal Communications Commission**  
**Wireless Telecommunications Bureau**

**RADIO STATION AUTHORIZATION**

LICENSEE: CELLCO PARTNERSHIP

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

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

FCC Registration Number (FRN): 0003290673

<b>Market Name</b> Kentucky 5 - Barren
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<b>Grant Date</b> 09-01-2020	<b>Effective Date</b> 01-13-2021	<b>Expiration Date</b> 10-01-2030	<b>Five Yr Build-Out Date</b>	<b>Print Date</b>
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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**

<b>Maximum Transmitting ERP in Watts:</b>	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
<b>Antenna Height AAT (meters)</b>	177.600	194.100	184.800	162.400	189.800	184.600	178.000	165.400
<b>Transmitting ERP (watts)</b>	116.290	30.310	1.400	0.270	0.270	0.270	0.700	31.720

**Antenna: 2**

<b>Maximum Transmitting ERP in Watts:</b>	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
<b>Antenna Height AAT (meters)</b>	177.600	194.100	184.800	162.400	189.800	184.600	178.000	165.400
<b>Transmitting ERP (watts)</b>	0.710	17.400	93.440	120.380	32.400	3.090	0.300	0.340

**Antenna: 3**

<b>Maximum Transmitting ERP in Watts:</b>	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
<b>Antenna Height AAT (meters)</b>	177.600	194.100	184.800	162.400	189.800	184.600	178.000	165.400
<b>Transmitting ERP (watts)</b>	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.
19	37-01-53.2 N	086-02-59.7 W	230.1	53.3	

Address: Barren West, 1.1 km SE of intersection of Route 255 and Cumberland Parkway

City: Bon Ayr County: BARREN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	48.000	59.100	62.400	62.000	76.300	71.700	67.700	68.900
Transmitting ERP (watts)	10.930	71.760	174.250	150.580	36.510	3.930	0.360	2.010

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	48.000	59.100	62.400	62.000	76.300	71.700	67.700	68.900
Transmitting ERP (watts)	1.660	0.370	3.640	24.330	110.220	166.180	109.490	18.120

Antenna: 5

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	48.000	59.100	62.400	62.000	76.300	71.700	67.700	68.900
Transmitting ERP (watts)	241.800	133.090	20.990	1.690	0.670	7.430	41.990	187.010

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

Address: Barren East, 1.5 km ESE of

City: Wisdom County: METCALFE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	83.800	114.600	79.500	77.500	56.000	94.100	87.900	92.000
Transmitting ERP (watts)	182.210	79.990	9.240	0.460	0.370	0.480	10.610	83.760

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	83.800	114.600	79.500	77.500	56.000	94.100	87.900	92.000
Transmitting ERP (watts)	3.340	55.130	223.280	203.210	38.060	3.110	0.540	0.700

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	83.800	114.600	79.500	77.500	56.000	94.100	87.900	92.000
Transmitting ERP (watts)	2.970	0.370	0.470	1.480	30.120	143.340	153.910	33.100

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

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

Address: 5 km east of

City: Summer Shade County: METCALFE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	137.700	116.600	133.500	131.800	89.700	109.800	135.900	112.700
Transmitting ERP (watts)	182.210	79.990	9.240	0.460	0.370	0.480	10.610	83.760

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	137.700	116.600	133.500	131.800	89.700	109.800	135.900	112.700
Transmitting ERP (watts)	2.890	26.340	135.690	168.870	47.270	4.440	0.480	0.380

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	137.700	116.600	133.500	131.800	89.700	109.800	135.900	112.700
Transmitting ERP (watts)	1.520	0.370	0.480	3.570	47.930	165.220	127.520	20.330

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

Address: ADAIR EAST, 7955 RUSSELL SPRINGS ROAD

City: RUSSELL SPRINGS County: ADAIR State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	102.600	66.400	51.500	64.800	80.000	101.700	115.200	90.300
Transmitting ERP (watts)	112.350	104.850	19.980	1.660	0.300	0.350	1.660	27.580

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	102.600	66.400	51.500	64.800	80.000	101.700	115.200	90.300
Transmitting ERP (watts)	0.350	5.720	51.470	125.910	71.710	11.750	0.560	0.300

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	102.600	66.400	51.500	64.800	80.000	101.700	115.200	90.300
Transmitting ERP (watts)	4.170	0.300	0.320	0.500	13.510	83.280	126.050	39.860

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

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

Address: Glasgow Downtown, 105 Lincoln Road

City: Glasgow County: BARREN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	84.400	76.300	52.500	64.900	82.900	99.000	87.700	89.600
Transmitting ERP (watts)	1.130	36.370	134.760	36.800	2.250	0.320	0.320	0.320

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	84.400	76.300	52.500	64.900	82.900	99.000	87.700	89.600
Transmitting ERP (watts)	0.320	0.320	1.130	30.890	105.820	31.270	2.250	0.320

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	84.400	76.300	52.500	64.900	82.900	99.000	87.700	89.600
Transmitting ERP (watts)	4.260	0.320	0.320	0.320	0.470	22.310	148.580	69.130

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

Address: Metcalfe East, 8050 Edmonton Road (KY Hwy 80)

City: Edmonton County: ADAIR State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	161.200	138.700	115.200	99.600	89.500	117.700	121.700	113.100
Transmitting ERP (watts)	19.600	120.820	182.880	57.830	6.060	0.430	0.470	0.730

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	161.200	138.700	115.200	99.600	89.500	117.700	121.700	113.100
Transmitting ERP (watts)	0.800	0.430	0.480	7.980	74.500	191.490	102.840	13.560

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	161.200	138.700	115.200	99.600	89.500	117.700	121.700	113.100
Transmitting ERP (watts)	152.110	28.980	2.410	0.430	0.500	2.410	40.010	162.990

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

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

Address: Munfordville Downtown, water tank in the town of

City: Munfordville County: HART State: KY 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

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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

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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

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File Number: 0009262182

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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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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

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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

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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



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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

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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

Table with Call Sign (WPZV473), File Number (0009262040), and Radio Service (CW - PCS Broadband).

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 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.

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:** WPZV473

**File Number:** 0009262040

**Print Date:** 03-10-2021

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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 (WQGA959), File Number (0009775569), 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:** WQGA959

**File Number:** 0009775569

**Print Date:** 01-05-2022

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

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

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).

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

Conditions:

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

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

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WQIZ368

**File Number:** 0009262040

**Print Date:** 03-10-2021

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

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

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

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

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

Conditions:

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

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

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WQJQ692

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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 (WQVN764), File Number, and Radio Service (AT - AWS-3) details.

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

NONE

Conditions:

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

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:** WQVN764

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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 (WQVN765), File Number, and Radio Service (AT - AWS-3) details.

FCC Registration Number (FRN): 0003290673

Table containing license details: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, and Build-out Dates.

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.

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:** WQVN765

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

<b>Call Sign</b> WRAM746	<b>File Number</b> 0009262184
<b>Radio Service</b> WT - 600 MHz Band	

FCC Registration Number (FRN): 0003290673

<b>Grant Date</b> 01-09-2018	<b>Effective Date</b> 01-13-2021	<b>Expiration Date</b> 01-09-2030	<b>Print Date</b> 03-11-2021
<b>Market Number</b> PEA112	<b>Channel Block</b> A	<b>Sub-Market Designator</b> 0	
<b>Market Name</b> Bowling Green, KY			
<b>1st Build-out Date</b> 01-09-2024	<b>2nd Build-out Date</b>	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>

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:** WRAM746

**File Number:** 0009262184

**Print Date:** 03-11-2021

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WRBB974), File Number (0009262037), and Radio Service (UU - Upper Microwave Flexible Use Service).

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

NONE

Conditions:

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

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:** WRBB974

**File Number:** 0009262037

**Print Date:** 03-10-2021

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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

<b>Call Sign</b> WRBB975	<b>File Number</b> 0009262037
<b>Radio Service</b> UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

<b>Grant Date</b> 07-09-2019	<b>Effective Date</b> 01-13-2021	<b>Expiration Date</b> 08-09-2029	<b>Print Date</b> 03-10-2021
<b>Market Number</b> BTA052	<b>Channel Block</b> L2	<b>Sub-Market Designator</b> 0	
<b>Market Name</b> Bowling Green-Glasgow, KY			
<b>1st Build-out Date</b> 06-01-2024	<b>2nd Build-out Date</b>	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>

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:** WRBB975

**File Number:** 0009262037

**Print Date:** 03-10-2021

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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 (WREV449), File Number (0009262184), and Radio Service (UU - Upper Microwave Flexible Use Service).

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

NONE

Conditions:

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

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:** WREV449

**File Number:** 0009262184

**Print Date:** 03-11-2021

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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

<b>Call Sign</b> WREV451	<b>File Number</b> 0009262184
<b>Radio Service</b> UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

<b>Grant Date</b> 12-11-2019	<b>Effective Date</b> 01-13-2021	<b>Expiration Date</b> 12-11-2029	<b>Print Date</b> 03-11-2021
<b>Market Number</b> PEA112	<b>Channel Block</b> B	<b>Sub-Market Designator</b> 0	
<b>Market Name</b> Bowling Green, KY			
<b>1st Build-out Date</b>	<b>2nd Build-out Date</b>	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>

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:** WREV451

**File Number:** 0009262184

**Print Date:** 03-11-2021

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WREV453), File Number (0009262184), and Radio Service (UU - Upper Microwave Flexible Use Service).

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

NONE

Conditions:

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

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:** WREV453

**File Number:** 0009262184

**Print Date:** 03-11-2021

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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

<b>Call Sign</b> WRHF210	<b>File Number</b>
<b>Radio Service</b> UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0012576435

<b>Grant Date</b> 06-04-2020	<b>Effective Date</b> 06-04-2020	<b>Expiration Date</b> 06-04-2030	<b>Print Date</b>
<b>Market Number</b> PEA112	<b>Channel Block</b> M1	<b>Sub-Market Designator</b> 0	
<b>Market Name</b> Bowling Green, KY			
<b>1st Build-out Date</b>	<b>2nd Build-out Date</b>	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>

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:** WRHF210

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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

<b>Call Sign</b> WRHF211	<b>File Number</b>
<b>Radio Service</b> UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0012576435

<b>Grant Date</b> 06-04-2020	<b>Effective Date</b> 06-04-2020	<b>Expiration Date</b> 06-04-2030	<b>Print Date</b>
<b>Market Number</b> PEA112	<b>Channel Block</b> M10	<b>Sub-Market Designator</b> 0	
<b>Market Name</b> Bowling Green, KY			
<b>1st Build-out Date</b>	<b>2nd Build-out Date</b>	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>

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:** WRHF211

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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

Table with Call Sign (WRHF212), 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.

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:** STRAIGHT PATH SPECTRUM, LLC

**Call Sign:** WRHF212

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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

<b>Call Sign</b> WRHF213	<b>File Number</b>
<b>Radio Service</b> UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0012576435

<b>Grant Date</b> 06-04-2020	<b>Effective Date</b> 06-04-2020	<b>Expiration Date</b> 06-04-2030	<b>Print Date</b>
<b>Market Number</b> PEA112	<b>Channel Block</b> M3	<b>Sub-Market Designator</b> 0	
<b>Market Name</b> Bowling Green, KY			
<b>1st Build-out Date</b>	<b>2nd Build-out Date</b>	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>

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:** WRHF213

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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

Table with Call Sign (WRHF214), 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:** WRHF214

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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

<b>Call Sign</b> WRHF215	<b>File Number</b>
<b>Radio Service</b> UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0012576435

<b>Grant Date</b> 06-04-2020	<b>Effective Date</b> 06-04-2020	<b>Expiration Date</b> 06-04-2030	<b>Print Date</b>
<b>Market Number</b> PEA112	<b>Channel Block</b> M5	<b>Sub-Market Designator</b> 0	
<b>Market Name</b> Bowling Green, KY			
<b>1st Build-out Date</b>	<b>2nd Build-out Date</b>	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>

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:** WRHF215

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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

Table with Call Sign (WRHF216), 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:** WRHF216

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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

<b>Call Sign</b> WRHF217	<b>File Number</b>
<b>Radio Service</b> UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0012576435

<b>Grant Date</b> 06-04-2020	<b>Effective Date</b> 06-04-2020	<b>Expiration Date</b> 06-04-2030	<b>Print Date</b>
<b>Market Number</b> PEA112	<b>Channel Block</b> M7	<b>Sub-Market Designator</b> 0	
<b>Market Name</b> Bowling Green, KY			
<b>1st Build-out Date</b>	<b>2nd Build-out Date</b>	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>

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:** WRHF217

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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 2 columns: Call Sign (WRHF218), File Number, and Radio Service (UU - Upper Microwave Flexible Use Service).

FCC Registration Number (FRN): 0012576435

Table with 4 columns: Grant Date (06-04-2020), Effective Date (06-04-2020), Expiration Date (06-04-2030), Print Date, Market Number (PEA112), Channel Block (M8), Sub-Market Designator (0), Market Name (Bowling Green, KY), 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

NONE

Conditions:

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

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**Licensee Name:** STRAIGHT PATH SPECTRUM, LLC

**Call Sign:** WRHF218

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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

Table with Call Sign (WRHF219), 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:** WRHF219

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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 (WRNF682), 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:** WRNF682

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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 (WRNF683), 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:** WRNF683

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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

<b>Call Sign</b> WRNF684	<b>File Number</b>
<b>Radio Service</b> PM - 3.7 GHz Service	

FCC Registration Number (FRN): 0003290673

<b>Grant Date</b> 07-23-2021	<b>Effective Date</b> 07-23-2021	<b>Expiration Date</b> 07-23-2036	<b>Print Date</b>
<b>Market Number</b> PEA112	<b>Channel Block</b> A3	<b>Sub-Market Designator</b> 0	
<b>Market Name</b> Bowling Green, KY			
<b>1st Build-out Date</b> 07-23-2029	<b>2nd Build-out Date</b> 07-23-2033	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>

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.

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:** WRNF684

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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 (WRNF685), 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:** WRNF685

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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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 (WRNF686), File Number, and Radio Service (PM - 3.7 GHz Service).

FCC Registration Number (FRN): 0003290673

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**Call Sign:** WRNF686

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

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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.

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**Call Sign:** WRNF688

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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ALPHARETTA, GA 30022

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<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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Reference Copy

CELLCO PARTNERSHIP  
D/B/A



# CK TOMPKINSVILLE III

POPLAR LOG CHURCH ROAD  
TOMPKINSVILLE, KY 42167  
MONROE COUNTY

NEW 190'-0" MONOPOLE W/5'-0" LIGHTNING ARRESTOR.  
-TOTAL TOWER HEIGHT 195'-0"

FROM MONROE COUNTY JUDGE: 200 N MAIN ST STE C, TOMPKINSVILLE, KY 42167. HEAD NORTHEAST ON N MAIN ST TOWARD E 4TH ST (230 FT). TURN LEFT ONTO STATE HWY 63/W 4TH ST & CONTINUE TO FOLLOW STATE HWY 63 (1.1 MI). TURN LEFT ONTO POPLAR LOG CHURCH RD (1.0 MI). TURN LEFT ONTO BILL BUTLER RD (499 FT). SITE WILL BE LOCATED ON RIGHT (SOUTH WEST) SIDE OF ROAD.

FROM LOUISVILLE MISO: 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). TAKE THE RAMP ONTO I-265 W/KY-841 W (0.5 MI). MERGE ONTO I-265 W/KY-841 W (8.2 MI). USE THE MIDDLE LANE TO CONTINUE ON KY-841 W (0.5 MI). TAKE EXIT 10B TO MERGE ONTO I-65 S TOWARD NASHVILLE (72.8 MI). TURN LEFT ONTO W MAIN ST (0.9 MI). W MAIN ST TURNS RIGHT AND BECOMES COURT HOUSE SQUARE/S RACE ST (354 FT). TURN LEFT ONTO S PUBLIC SQUARE/W WASHINGTON ST (331 FT). TURN LEFT AT THE 1ST CROSS STREET ONTO S GREEN ST/E PUBLIC SQUARE (341 FT). TURN RIGHT AT THE 1ST CROSS STREET ONTO E MAIN ST (1.2 MI). CONTINUE ONTO KY-90 E/BURKESVILLE RD (7.0 MI). TURN RIGHT ONTO STATE HWY 839 (17.0 MI). TURN LEFT ONTO STATE HWY 63 (0.2 MI). TURN RIGHT ONTO POPLAR LOG CHURCH RD (1.0 MI). TURN LEFT ONTO BILL BUTLER RD (499 FT). SITE WILL BE LOCATED ON RIGHT (SOUTH WEST) SIDE OF ROAD.

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

**VERIZON SITE**  
CK TOMPKINSVILLE III  
PLZE ID: 16522188  
LOCATION CODE: 689717

**SITE ADDRESS**  
POPLAR LOG CHURCH ROAD  
TOMPKINSVILLE, KY 42167  
MONROE COUNTY  
E911 ADDRESS: TBD

**TOWER OWNER**  
VERIZON

2902 RING ROAD  
ELIZABETHTOWN, KY 42701  
CONTACT: JACKIE STRAIGHT  
PHONE: (290) 750-0023  
E-MAIL: JACKIE.STRAIGHT@  
VERIZONWIRELESS.COM

**PROPERTY OWNER**  
KELBY GRAVES, KAYLIN GRAVES, AND  
KEGAN GRAVES  
3133 EBENZER ROAD  
TOMPKINSVILLE, KY 42167  
CONTACT: KAYLIN GRAVES  
PHONE: (270) 427-0754  
E-MAIL: GRAVESFARMS@  
HOTMAIL.COM

**PROJECT SUMMARY**



**POULCE**  
TOMPKINSVILLE POLICE DEPT.  
201 E 2ND ST  
TOMPKINSVILLE, KY 42167  
PHONE: (270) 487-6191

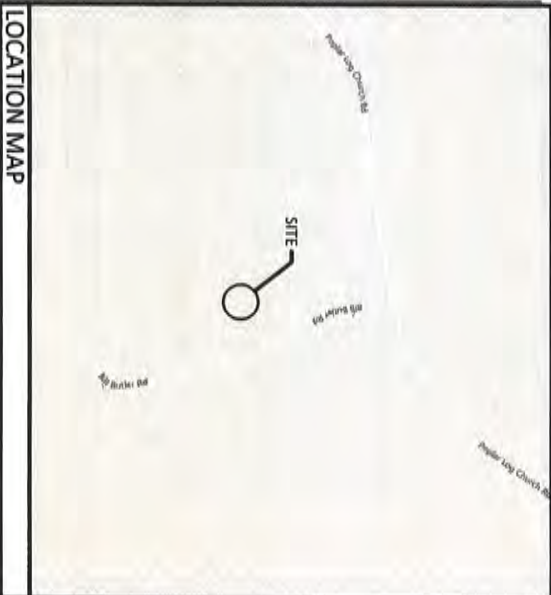
**FIRE**  
TOMPKINSVILLE FIRE DEPT.  
206 N MAGNOLIA ST  
TOMPKINSVILLE, KY 42167  
PHONE: (270) 487-6211

**GENERAL INFORMATION**  
LATITUDE : 36.42724 127974° N  
LONGITUDE : 85.43171 694238° W  
1983 (NAVD83)  
ELEVATION : 1,020 ± AMSL  
1988 (NAVD88)

**VERIZON LEASE AREA**  
100'-0" x 100'-0"  
(10,000 SF)

**PROJECT TOTAL DISTURBED AREA**  
COMPOUND: (10,000 SF) = (10.23 ACRES)  
ACCESS DRIVE: (9,385 SF) = (10.22 ACRES)  
GROSS AREA: (19,385 SF) = (10.45 ACRES)

**PROJECT DESCRIPTION**



NOTE: ALL ITEMS WITHIN THESE CONSTRUCTION DOCUMENTS ARE BY TOWER OWNERS GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS UNLESS NOTED AS (VZW GC) WHICH SHALL INCLUDE VERIZON GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS. GENERALLY DESCRIBED BELOW:

**VERIZON SCOPE (NEW GSE):**

- INSTALL A NEW 190'-0" MONOPOLE W/5'-0" LIGHTNING ROD (TOTAL 195'-0")
- INSTALL A NEW TOWER FOUNDATION SYSTEM
- INSTALL A NEW 36" x 36" x 98'-0" FENCED GRAVEL COMPOUND
- INSTALL A NEW ELECTRICAL SERVICE RUM TO SITE
- INSTALL A NEW GRAVEL ACCESS DRIVE
- NO WATER OR SEWAGE SERVICES RUN TO SITE
- INSTALL NEW VZW SUBSURFACE GROUNDING SYSTEM
- INSTALL NEW 2" x 2" x 3" CONCRETE EQUIPMENT PAD
- INSTALL NEW 2" x 2" x 3" CONCRETE EQUIPMENT PAD
- INSTALL NEW CONDUITS WITH PULL TAPES FROM VZW ITC ENCLOSURE STUB-UPS TO EQUIPMENT ENCLOSURE STUDS WITH VZW EQUIPMENT PAD
- INSTALL NEW CONDUITS WITH PULL TAPES FROM RF CABINET TO GUY H-FRAME UT FIBER LOCATION
- INSTALL (1) NEW "VERIZON ONLY" FIBER OPTIC CONDUIT WITH PULL TAPE AND TRACER WIRE FROM VZW EQUIPMENT TO NEW "VERIZON ONLY" 24" x 36" HAND HOLE OUTSIDE COMPOUND
- INSTALL (1) NEW "VERIZON ONLY" FIBER OPTIC CONDUIT WITH PULL TAPE AND TRACER WIRE FROM 60" HAND HOLE FROM 36" x 36" HAND HOLE OUTSIDE COMPOUND TO NEW "VERIZON ONLY" 24" x 36" x 36" HAND HOLE OUTSIDE COMPOUND AND STUB UP AT FUTURE FIBER FIBERSTAL LOCATION
- INSTALL (2) 1/2" & (1) 1" INNERDUCTS WITH PULL TAPES AND TRACER WIRE WITHIN "VERIZON ONLY" FIBER OPTIC CONDUITS
- PERFORM ELEC. POWER MUST BE AVAILABLE FOR VERIZON AT THE METER BASE PRIOR TO INSTALL A NEW 11.5-12.46-7 PREFABRICATED CANOPY ON EXISTING CONCRETE PAD FOUNDATION
- INSTALL NEW 30 KW DIESEL GENERATION ON EXISTING CONCRETE PAD FOUNDATION
- INSTALL VZW ICE BRIDGE AND FOUNDATIONS
- INSTALL VZW ANTENNAS, LINES, COAX, GPS ANTENNA AND RADIO EQUIPMENT
- INSTALL VZW SURFACE GROUND LEADS TO VZW EQUIPMENT & FACILITIES
- INSTALL VZW ELECTRICAL SERVICE CONDUITS FROM UTILITY H-FRAME TO VZW ITC ENCLOSURE
- INSTALL NEW OUTDOOR DWP AND CABLING H-FRAME SUPPORT

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

BUILDING CODE	2018 KENTUCKY BUILDING CODE
STRUCTURAL CODE	TA/EA-222 - REVISION G (INCLUDES ADDENDUM #42)
MECHANICAL CODE	2012 INTERNATIONAL MECHANICAL CODE (IMC 2012)
PLUMBING CODE	KENTUCKY STATE PLUMBING CODE (KSPC 2012)
ELECTRICAL CODE	2017 NATIONAL ELECTRICAL CODE (NEC) - NFPA 70
FIRE/SAFETY CODE	2012 INTERNATIONAL FIRE CODE (IFC)
GAS CODE	2012 INTERNATIONAL GAS CODE (COMMERCIAL)
ACCESSIBILITY REQUIREMENTS:	2009 NATIONAL FUEL GAS CODE (NFPA 54)

**APPLICABLE CODES**

<b>SUBVERTOR</b>	POWER OF DESIGN GROUP, LLC 11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40299 PHONE: (502) 437-5252	<b>ARCHITECTURAL</b>	POWER OF DESIGN GROUP, LLC 11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40299 PHONE: (502) 437-5252
<b>ELECTRICAL</b>	TRI-COUNTY REMC ADDRESS: 919 NORTH MAIN STREET TOMPKINSVILLE, KY 42167 CONTACT: TBD PHONE: (270) 487-6761 EMAIL: TBD	<b>ELECTRICAL UTILITY COORDINATION IS NOT FINALIZED. DO NOT PROCEED WITH CONSTRUCTION.</b>	

**CONSULTANT TEAM**



<b>SHEET NUMBER</b>	T-1	<b>DESCRIPTION</b>	PROJECT INFORMATION, SITE MAPS, SHEET INDEX
	B-1 TO B-1.2		SITE SURVEY
	B-2 TO B-2.1		500' RADIUS & ABUTTERS MAP
	R-1		REVISION LOG
<b>TOWER ELEVATION</b>	TE-1		TOWER ELEVATION
<b>CIVIL</b>	C-1		OVERALL SITE PLAN W/AERIAL OVERLAY
	C-1A		OVERALL SITE PLAN W/DISTANCES TO PROPERTY LINES
	C-1B		TOWER DISTANCE TO RESIDENTIAL STRUCTURES
	C-3		DETAILED SITE PLAN
	C-4		DIMENSIONED SITE PLAN



EN PERMIT: 3594

**ZONING DRAWINGS**

REV.	DATE	DESCRIPTION
A	2.14.22	ISSUED FOR REVIEW
0	2.28.22	ISSUED AS FINAL

**CK TOMPKINSVILLE III**

POPLAR LOG CHURCH ROAD  
TOMPKINSVILLE, KY 42167  
MONROE COUNTY

POD NUMBER:	21-102837
DRAWN BY:	POD
CHECKED BY:	MEP
DATE:	02.14.22
SHEET TITLE:	
PROJECT INFORMATION, SITE MAPS, SHEET INDEX	
SHEET NUMBER:	
T-1	



LEGAL DESCRIPTIONS

PARENT PARCEL, LEGAL DESCRIPTION, DEED BOOK 133, PAGE 210 (NOT FIELD SURVEYED)  
 PROPERTY LOCATED IN MONROE COUNTY, KENTUCKY

PROPERTY 1:  
 BEGINNING ON A STONE ON THE NORTH SIDE OF A GRAVEL ROAD NEAR THE TURN OF SAID ROAD A CORNER TO CLYDE LANE AND AN 8 ACRE TRACT THAT IS NOW OWNED BY THOMPSON; THENCE WITH CLYDE LANE AND A WIRE FENCE N 3-1/2 DEG. W 232 FEET TO A STONE A CORNER TO SAID LANE AND THE HUSTON BUTLER HEIRS; THENCE WITH THE SAID BUTLER HEIRS AND AN OLD RAIL FENCE S 88 DEG. W 860 FEET TO AN IRON STAKE IN SAID BUTLER TRACT; THENCE A NEW LINE S 1-1/2 DEG. W 454 FEET TO AN IRON STAKE AT A FENCE A NEW CORNER; THENCE N 66 DEG. E 165 FEET TO A SUGAR TREE; THENCE N 81-1/2 DEG. E 544 FEET TO AN IRON STAKE; THENCE WITH A FENCE N 87 DEG. E 187 FEET TO A IRON STAKE ON SAID ROAD; THENCE N 4 DEG. E 62-1/2 FEET TO THE BEGINNING, CONTAINING 7 ACRES MORE OR LESS, SURVEYED OCTOBER 15, 1979, BY ROBERT H. HARLAN, L.S. 1194.

PROPERTY 2:  
 BEGINNING AT SET IRON PIN ON R/W OF FOX HILL SCHOOL ROAD (406' R/W); A CORNER TO JAMES RITTER; THENCE WITH SAID R/W: N 83 DEG. 47 MIN. 15 SEC. E 211.92 FT.; THENCE N 82 DEG. 27 MIN. 29 SEC. E 241.30 FT.; THENCE N 82 DEG. 03 MIN. 14 SEC. E 166.35 FT. TO SET IRON PIN ON R/W OF FOX HILL SCHOOL ROAD AND ON R/W OF BILL BUTLER ROAD (307' R/W); THENCE WITH R/W OF BILL BUTLER ROAD: S 05 DEG. 19 MIN. 35 SEC. E 325.69 FT. TO SET IRON PIN ON SAID R/W; A CORNER TO TIM LEE LANE (0 B 79, PG. 502, RECORDED IN THE MONROE COUNTY COURT CLERK'S OFFICE); THENCE WITH LINE OF LANE: S 5 DEG. 10 MIN. 54 SEC. E 305.32 FT. TO 2411 HICKORY, A CORNER TO TIM LEE LANE AND JAMES RITTER (D.B. 60, PG. 17, RECORDED IN THE MONROE COUNTY COURT CLERK'S OFFICE); THENCE WITH LINES OF RITTER, N 62 DEG. 37 MIN. 48 SEC. W 649.49 FT. TO SET IRON PIN; THENCE N 20 DEG. 47 MIN. 31 SEC. W 269.40 FT. TO THE BEGINNING, CONTAINING 5.790 ACRES, MORE OR LESS, THIS PROPERTY IS SUBJECT TO ANY EXISTING RIGHTS OF WAYS OR EASEMENTS, SURVEYED THIS 29TH DAY OF AUGUST, 1996, PRIDE ENGINEERING COMPANY, INC., MOATY C. ESTES, K.L.S. #1639.

PROPERTY 3:  
 DESCRIPTION OF BOUNDARY LINE SURVEY OF A 157.85 ACRE TRACT OF THE LAND OF THE EST. OF WILLIAM H. BUTLER LOCATED ON THE POPULAR LOG SCHOOL CO. RD, IN MONROE COUNTY ABOUT 1.7 MILES N/W OF TOMPKINSVILLE, KY.; FROM AN ACTUAL SURVEY AND I HEREBY CERTIFY THAT THE CORRECT METES AND BOUNDS DESCRIPTION OF SAID TRACT AS FOLLOWS:

BEGINNING AT A CORNER ON THE SOUTHERN SIDE OF THE POPULAR LOG SCHOOL, COUNTY ROAD NO. 1200, A CORNER TO THE LAND OF TEDDY BUTLER, IN MONROE COUNTY APPROXIMATELY 1.7 MILES NORTHWESTERLY OF TOMPKINSVILLE, KENTUCKY, SAID POINT OF BEGINNING BEING LOCATED 21 FEET FROM THE CENTERLINE OF SAID COUNTY ROAD AND ABOUT ONE MILE WESTERLY ALONG SAID ROAD FROM ITS INTERSECTION WITH STATE HIGHWAY NO. 63; THENCE N 23 DEG. 42 MIN. W 12 FEET TO A SPIKE ON THE SOUTHERN EDGE OF PAVEMENT OF SAID COUNTY ROAD; RUNNING THENCE ALONG THE SOUTHERN EDGE OF SAID PAVEMENT, S 82 DEG. 42 MIN. W 217.9 FEET; THENCE S 71 DEG. 37 MIN. W 74.6 FEET; THENCE S 61 DEG. 06 MIN. W 74.7 FEET; THENCE S 50 DEG. 05 MIN. W 259.6 FEET; THENCE S 59 DEG. 04 MIN. W 74.7 FEET; THENCE 68 DEG. 42 MIN. W 216.6 FEET; THENCE S 75 DEG. 12 MIN. W 198.7 FEET; THENCE S 69 DEG. 21 MIN. W 99.5 FEET; THENCE S 64 DEG. 02 MIN. W 263.9 FEET; THENCE N 75 DEG. 01 MIN. W 69.3 FEET; THENCE N 70 DEG. 51 MIN. W 227.6 FEET; THENCE N 66 DEG. 46 MIN. W 98.9 FEET; THENCE N 61 DEG. 18 MIN. W 98.9 FEET; THENCE N 57 DEG. 26 MIN. W 296.4 FEET; THENCE N 77 DEG. 10 MIN. W 49.5 FEET; THENCE S 86 DEG. 41 MIN. W 49.6 FEET; THENCE S 73 DEG. 03 MIN. W 99.7 FEET; THENCE S 64 DEG. 20 MIN. W 254 FEET; THENCE S 67 DEG. 02 MIN. W 74.6 FEET; THENCE S 78 DEG. 24 MIN. W 74.5 FEET; THENCE S 88 DEG. 04 MIN. W 74.3 FEET; THENCE N 88 DEG. 47 MIN. W 84.3 FEET; THENCE N 84 DEG. 49 MIN. W 60.3 FEET; THENCE N 77 DEG. 25 MIN. W 90.9 FEET TO A SPIKE ON THE SOUTHERN EDGE OF SAID COUNTY ROAD PAVEMENT AT THE MOUTH OF THE ADAMS BRANCH COUNTY ROAD NO. 1203; THENCE N 75 DEG. 36 MIN. W 61 FEET TO A SAWED CORNER POST ON THE SOUTHERN SIDE OF SAID POPULAR LOG SCHOOL COUNTY ROAD; A CORNER TO THE LANDS OF CARL SHEFFIELD, TO A HICKORY AND BLACK CENTERLINE OF SAID COUNTY ROAD; RUNNING THENCE ALONG THE SAID SHEFFIELD LINES, AND THAT OF CLAUDE SHEFFIELD, WITH THE FENCES, S 19 DEG. 37 MIN. W 119.1 FEET, CROSSING THE ADAMS BRANCH COUNTY ROAD, TO A HICKORY AND BLACK WALNUT IN THE FENCE; THENCE S 06 DEG. 43 MIN. W 1828.6 FEET TO A STONE AT THE NORTH BANK OF ADAMS BRANCH IN LINE WITH THE LINE FENCE; RUNNING THENCE DOWN SAID BRANCH, S 33 DEG. 17 MIN. W 103.8 FEET; THENCE S 78 DEG. 21 MIN. W 77.1 FEET; THENCE N 70 DEG. 46 MIN. W 176.3 FEET; THENCE S 79 DEG. 36 MIN. W 224.6 FEET; THENCE N 29 DEG. 53 MIN. W 183.2 FEET TO A 6-INCH MAPLE AT A FENCE CORNER ON THE SOUTH SIDE OF SAID BRANCH, A CORNER TO THE LANDS OF RICHARD MCFARLANE; RUNNING THENCE ALONG THE SAID MCFARLANE LINE, WITH THE FENCE, S 05 DEG. 40 MIN. E 825.4 FEET TO A BLACK GUM AT A FENCE CORNER, A CORNER TO THE LANDS OF EVERT BOWMAN ON THE MCFARLANE LINE; RUNNING THENCE ALONG THE SAID BOWMAN LINE, WITH THE FENCE, N 76 DEG. 47 MIN. E 351.1 FEET TO AN 8-INCH HICKORY IN THE FENCE; THENCE N 80 DEG. 25 MIN. E 449.7 FEET TO A 6-INCH MAPLE IN THE FENCE; THENCE N 78 DEG. 33 MIN. E 1130 FEET TO A HICKORY AT A FENCE CORNER, A CORNER TO THE LAND OF CASS GRAVES; RUNNING THENCE ALONG THE SAID GRAVES LINES, WITH THE FENCES, N 71 DEG. 23 MIN. E 199.5 FEET TO A STONE; THENCE N 16 DEG. 04 MIN. E 207.6 FEET TO A FENCE CORNER; THENCE N 10 DEG. 27 MIN. E 366.5 FEET TO A 24-INCH BUCKEYE ON THE SOUTHWEST SIDE OF ADAMS BRANCH; THENCE N 59 DEG. 29 MIN. W 570.8 FEET TO A POINT IN THE CENTER OF SAID BRANCH IN THE FENCE; THENCE N 04 DEG. 22 MIN. E 596.5 FEET, WITH THE FENCE, TO A HICKORY AT A FENCE CORNER TO THE LANDS OF JOSH BUTLER, RUNNING THENCE ALONG THE SAID BUTLER LINES, WITH THE FENCES, N 05 DEG. 33 MIN. E 801.2 FEET TO A MAPLE AT A FENCE CORNER ON A DRAIN; THENCE N 50 DEG. 09 MIN. E 134 FEET TO A MAPLE IN THE FENCE; THENCE N 82 DEG. 11 MIN. E 856.5 FEET, WITH THE FENCE TO A 42-INCH WHITE OAK IN FRONT OF JOSH BUTLER'S RESIDENCE; THENCE N 89 DEG. 53 MIN. E 817.7 FEET WITH THE FENCE, TO A STONE AT A FENCE CORNER, A CORNER TO THE LAND OF ALBERT THOMPSON, RUNNING THENCE ALONG THE SAID THOMPSON LINES, WITH THE FENCES, N 56 DEG. 20 MIN. E 527.4 FEET TO A STONE AT AN ANGLE IN THE FENCE; THENCE N 89 DEG. 17 MIN. E 1025.9 FEET TO A STONE AT A FENCE CORNER, A CORNER TO THE SAID THOMPSON TRACT ON THE CLYDE LANE LINE, RUNNING THENCE ALONG THE SAID LANE BOUNDARY, WITH THE FENCE, N 02 DEG. 11 MIN. W 403.8 FEET TO A 24-INCH HICKORY AT A FENCE CORNER, A CORNER TO THE LANDS OF TEDDY BUTLER, RUNNING THENCE ALONG THE SAID BUTLER LINES, WITH THE FENCES, N 64 DEG. 27 MIN. W 648.6 FEET TO A STONE ON THE WEST SIDE OF THE FENCE; THENCE N 22 DEG. 52 MIN. W 269.4 FEET, WITH THE FENCE, TO THE POINT OF BEGINNING, CONTAINING 158.52 ACRES, EXCEPTING 0.97 ACRES FOR EXISTING PUBLIC RIGHT-OF-WAY CONTAINED IN THE RIGHT-OF-WAY OF THE POPULAR LOG SCHOOL COUNTY ROAD AND THE ADAMS BRANCH COUNTY ROAD, LEAVING A BALANCE OF 157.85 ACRES MORE OR LESS, ACCORDING TO THIS SURVEY MADE IN JUNE 1983 BY PAUL LUSTER RLS #966 SUBJECT TO EXISTING RIGHTS-OF-WAY AND EASEMENTS.

THERE IS EXCEPTED FROM THE ABOVE DESCRIPTION 157.85 ACRE SURVEY A 30-FOOT WIDE RIGHT-OF-WAY ALONG AN EXISTING LANE FROM THE POPULAR LOG SCHOOL COUNTY ROAD TO THE NORTHERN BOUNDARY OF THE JOSH BUTLER TRACT THE CENTERLINE OF SAID 30-FOOT WIDE RIGHT-OF-WAY IS DESCRIBED AS FOLLOWS: BEGINNING AT A SPIKE ON THE SOUTHERN EDGE OF PAVEMENT OF THE POPULAR LOG SCHOOL COUNTY ROAD AT THE MOUTH OF AN EXISTING LANE THAT EXTENDS SOUTHERLY TO THE JOSH BUTLER TRACT, SAID POINT OF BEGINNING BEING LOCATED 1,552.3 FEET WESTERLY, ALONG SAID COUNTY ROAD, FROM A CORNER POST ON A CORNER COMMON TO THE ABOVE DESCRIBED 157.85 ACRE SURVEY AND THE LANDS OF TEDDY BUTLER; RUNNING THENCE ALONG THE CENTERLINE OF THE EXISTING LANE, S 17 DEG. 38 MIN. W 169.7 FEET; THENCE S 22 DEG. 05 MIN. W 378 FEET; THENCE S 04 DEG. 02 MIN. W 148 FEET TO A POINT IN THE CENTERLINE OF SAID LANE ON THE NORTHERN BOUNDARY OF THE JOSH BUTLER LAND AND THERE TERMINATING. THE PRESENT LAND OWNERS AND FUTURE LAND OWNERS ADJOINING SAID 30-FOOT STRIP OF RIGHT-OF-WAY SHALL HAVE THE RIGHT OF INGRESS AND EGRESS TO THEIR PROPERTY ON SAME ROAD. THERE IS EXCEPTED, HOWEVER, AND NOT CONVEYED HEREIN, THAT PORTION OF THE ABOVE DESCRIBED REAL ESTATE PREVIOUSLY CONVEYED BY THE GRANTORS TO RICKY GRAVES, ET UX., BY DEED DATED MARCH 27, 1986, RECORDED IN DEED BOOK 50, PAGE 21, OFFICE OF THE MONROE COUNTY COURT CLERK, AND DESCRIBED AS FOLLOWS:  
 BEGINNING ON A STONE ON THE NORTH BANK OF ADAMS BRANCH AND IN LINE WITH THE LINE FENCE CORNER TO SHEFFIELD AND RITTER ET AL.; THENCE WITH THE MEANDERS OF THE BRANCH S 33 DEG. 17 MIN. W 103.8'; S 78 DEG. 21 MIN. W 17.1'; N 70 DEG. 46 MIN. W 176.3'; S 79 DEG. 36 MIN. W 224.6'; N 29 DEG. 53 MIN. W 183.2'; S 78 DEG. 39 MIN. W 60.9' TO A MAPLE ON THE SOUTH BANK OF ADAMS BRANCH AND CORNER TO MCFALL; THENCE WITH MCFALL S 5 DEG. 40 MIN. E 825.4' TO A BLACK GUM CORNER TO BOWMAN; THENCE WITH BOWMAN N 76 DEG. 47 MIN. E 358.83' TO A HICKORY; THENCE N 80 DEG. 26 MIN. E 459.59' TO A MAPLE; THENCE N 78 DEG. 33 MIN. E 1154.87' TO A HICKORY CORNER TO GRAVES; THENCE WITH GRAVES N 71 DEG. 23 MIN. E 203.89' TO A STONE; THENCE N 16 DEG. 04 MIN. E 207.6' TO A POST; THENCE N 10 DEG. 27 MIN. E 336.5' TO A BUCKEYE; THENCE N 59 DEG. 29 MIN. W 570.8' TO A FENCE AND IN THE CENTER OF ADAMS BRANCH; THENCE WITH FENCE N 4 DEG. 26 MIN. E 26.42' TO A STAKE IN THE FENCE; THENCE A NEW DIVISION LINE N 81 DEG. 00 MIN. W 315.27' TO A STAKE; THENCE S 55 DEG. 27 MIN. W 712.30' TO A WALNUT NEAR ADAMS BRANCH; THENCE S 4 DEG. 26 MIN. E 102.07' TO A BEECH; THENCE S 69 DEG. 11 MIN. W 286.34' TO THE POINT OF BEGINNING, AND CONTAINING A CALCULATED AREA OF 40.41 ACRES, MORE OR LESS, ALL BEARINGS REFER TO MAGNETIC NORTH, ACCORDING TO A SURVEY BY LARRY G. CRAWFILL, L.S. 1864 AND DATED MARCH 7, 1986, AND BEING THE SAME PROPERTY CONVEYED TO KELBY GRAVES, KAYLIN GRAVES AND KEGAN GRAVES FROM JEFFREY RITTER AND HIS WIFE, ANGELIA RITTER BY DEED DATED JULY 20, 2018 AND RECORDED AUGUST 8, 2018 IN DEED BOOK D133, PAGE 210.

TAX PARCEL NO. 48-02



MARK E. PATTERSON, PLS #3136

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 PLAN AND THE SURVEY ON THE GROUND WERE PERFORMED BY PERSONS UNDER MY DIRECT SUPERVISION, AND THAT THE DIRECTIONAL AND LINEAR MEASUREMENTS BEING WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. THE "RURAL" SURVEY, AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECIFICATIONS AS STATED IN KAR 201-18-150.

10/27/2021 DATE

PREPARED BY: 11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40229 502-437-5232	POWER OF DESIGN <b>POD</b>
PREPARED FOR:	SHEET NUMBER: (3 pages) <b>B-1.1</b>
SITE SURVEY REV DATE DESCRIPTION A 9-14-21 PRELIM ISSUE 0 10-27-21 ISSUED AS FINAL	SITE INFORMATION: CK TOMPKINSVILLE III POPULAR LOG CHURCH ROAD TOMPKINSVILLE, KY 42167 MONROE COUNTY TAX PARCEL NUMBER: 48-02 PROPERTY OWNER: KELBY GRAVES KAYLIN GRAVES AND KEGAN GRAVES 3033 EBENZER ROAD TOMPKINSVILLE, KY 42167 SOURCE OF TITLE: DEED BOOK 133, PAGE 210 POD NUMBER: 21-102830 DRAWN BY: AJW CHECKED BY: MEP SURVEY DATE: 8.30.21 PLAT DATE: 9.14.21

**PROPOSED LEASE AREA**

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED LEASE AREA ON THE PROPERTY CONVEYED TO KELBY GRAVES, KAYLIN GRAVES AND KEGAN GRAVES AS RECORDED IN THE OFFICE OF THE CLERK OF MONROE COUNTY, KENTUCKY IN DEED BOOK 133, PAGE 210, PARCEL ID: 48-02, 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 AUGUST 30, 2021.

**COMMENCING AT A FOUND IRON PIN (NO CAP) AT THE NORTHEAST CORNER OF THE PROPERTY CONVEYED TO KELBY GRAVES, KAYLIN GRAVES AND KEGAN GRAVES AS RECORDED IN DEED BOOK 113, PAGE 210, SAID POINT ALSO BEING THE SOUTHWEST RIGHT OF WAY INTERSECTION OF POPLAR LOG CHURCH ROAD AND BILL BUTLER ROAD; FOR REFERENCE, SAID COMMENCEMENT POINT IS N82°51'53"E 211.92', N81°37'07"E 241.30' AND N81°12'52"E 166.35' FROM A FOUND IRON PIN AT THE NORTHEAST CORNER OF OF THE FOREMENTIONED GRAVES PARCEL; THENCE ALONG THE EAST BOUNDARY LINE OF GRAVES, S06°07'57"E 168.52'; THENCE CONTINUING ALONG SAID EAST LINE, S06°09'57"E 38.08'; THENCE LEAVING SAID EAST LINE, TRAVERSING ACROSS THE LAND OF GRAVES, S83°50'03"W 9.78'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 35', ARC LENGTH OF 54.89', THE CHORD OF WHICH BEARS S38°54'24"W 49.43'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 15', ARC LENGTH OF 23.56', THE CHORD OF WHICH BEARS S51°01'16"E 21.21'; THENCE N83°58'44"E 35'; THENCE S06°01'16"E 30' TO A SET 1/2" REBAR, 18" LONG, WITH A YELLOW PLASTIC CAP STAMPED "PATTERSON KY PLS 3136"; HEREFTER REFERRED TO AS A "SET IPC" AND BEING THE TRUE POINT OF BEGINNING. THENCE S06°01'16"E 100.00' TO A SET IPC; THENCE S83°58'44"W 100.00' TO A SET IPC; THENCE N06°01'16"W 100.00' TO A SET IPC; THENCE N83°58'44"E 100.00' TO THE POINT OF BEGINNING CONTAINING 10,000.00 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED AUGUST 30, 2021.**

**PROPOSED 30' ACCESS & UTILITY EASEMENT**

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED ACCESS AND UTILITY EASEMENT ON THE PROPERTY CONVEYED TO KELBY GRAVES, KAYLIN GRAVES AND KEGAN GRAVES AS RECORDED IN THE OFFICE OF THE CLERK OF MONROE COUNTY, KENTUCKY IN DEED BOOK 133, PAGE 210, PARCEL ID: 48-02, 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 AUGUST 30, 2021.

**COMMENCING AT A FOUND IRON PIN (NO CAP) AT THE NORTHEAST CORNER OF THE PROPERTY CONVEYED TO KELBY GRAVES, KAYLIN GRAVES AND KEGAN GRAVES AS RECORDED IN DEED BOOK 113, PAGE 210, SAID POINT ALSO BEING THE SOUTHWEST RIGHT OF WAY INTERSECTION OF POPLAR LOG CHURCH ROAD AND BILL BUTLER ROAD; FOR REFERENCE, SAID COMMENCEMENT POINT IS N82°51'53"E 211.92', N81°37'07"E 241.30' AND N81°12'52"E 166.35' FROM A FOUND IRON PIN AT THE NORTHEAST CORNER OF OF THE FOREMENTIONED GRAVES PARCEL; THENCE ALONG THE EAST BOUNDARY LINE OF GRAVES, S06°07'57"E 168.52' TO THE POINT OF BEGINNING; THENCE CONTINUING ALONG SAID EAST LINE, S06°09'57"E 38.08'; THENCE LEAVING SAID EAST LINE, TRAVERSING ACROSS THE LAND OF GRAVES, S83°50'03"W 9.78'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 35', ARC LENGTH OF 54.89', THE CHORD OF WHICH BEARS S38°54'24"W 49.43'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 15', ARC LENGTH OF 23.56', THE CHORD OF WHICH BEARS S51°01'16"E 21.21'; THENCE N83°58'44"E 35'; THENCE S06°01'16"E 30' TO A SET 1/2" REBAR, 18" LONG, WITH A YELLOW PLASTIC CAP STAMPED "PATTERSON KY PLS 3136"; HEREFTER REFERRED TO AS A "SET IPC"; THENCE WITH SAID LEASE AREA, S83°58'44"W 100.00' TO A SET IPC; THENCE LEAVING SAID LEASE AREA, N06°01'16"W 30.00'; THENCE N83°58'44"E 35.00'; 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 N83°58'44"E 21.21'; THENCE N06°01'16"W 105.13'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 65.00', ARC LENGTH OF 101.94'; THE CHORD OF WHICH BEARS N38°54'24"E 91.81'; THENCE N44°16'42"E 12.69' TO THE POINT OF BEGINNING CONTAINING 9,385.640 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED AUGUST 30, 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 INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, UNRECORDED EASEMENTS, AUGMENTING EASEMENTS, IMPLIED OR PRESRIPTIVE EASEMENTS, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE. INFORMATION REGARDING THESE MATTERS WERE GAINED FROM FIDELITY NATIONAL TITLE, ORDER NO. 35213204, PREPARED FOR VERIZON WIRELESS, PERIOD OF SEARCH: DECEMBER 28, 1949 TO JULY 28, 2021 AT 8:00 AM. DATED: AUGUST 27, 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  
CALENDAR YEAR: 2020  
AMOUNT: \$772.41 ANNUALLY  
PARCEL ID #: 48-02  
PAID THROUGH: 2020  
ASSESSMENT: \$91,800.00 (TOTAL = LAND AND IMPROVEMENTS, IF ANY) (NOT A LAND SURVEYING MATTER, THEREFORE, POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
2. RIGHT OF WAY DEED IN FAVOR OF COUNTY OF MONROE, KENTUCKY SET FORTH IN INSTRUMENT RECORDED ON JULY 20, 1967 IN DEED BOOK 1, PAGE 551. (RIGHT OF WAY EASEMENT AS RECORDED IN BOOK 1, PAGE 551 DOES NOT AFFECT THE PARENT PARCEL, THE PROPOSED LEASE AREA OR THE PROPOSED ACCESS AND UTILITY EASEMENT.)
3. RIGHT OF WAY DEED IN FAVOR OF COUNTY OF MONROE, KENTUCKY SET FORTH IN INSTRUMENT RECORDED ON JULY 24, 1967 IN DEED BOOK 1, PAGE 561. (RIGHT OF WAY EASEMENT AS RECORDED IN BOOK 1, PAGE 561 DOES NOT AFFECT THE PARENT PARCEL, THE PROPOSED LEASE AREA OR THE PROPOSED ACCESS AND UTILITY EASEMENT.)
4. RIGHT OF WAY DEED IN FAVOR OF MONROE, KENTUCKY SET FORTH IN INSTRUMENT RECORDED ON JULY 24, 1967 IN DEED BOOK 1, PAGE 561. (RIGHT OF WAY EASEMENT AS RECORDED IN BOOK 1, PAGE 561 DOES NOT AFFECT THE PARENT PARCEL, THE PROPOSED LEASE AREA OR THE PROPOSED ACCESS AND UTILITY EASEMENT.)
5. RIGHT OF WAY AS DESCRIBED IN DEED RECORDED ON APRIL 3, 1986 IN DEED BOOK 60, PAGE 17. (EASEMENT AS RECORDED IN BOOK 71, PAGE 593 DOES NOT HAVE SUFFICIENT DATA TO PLOT OR DETERMINE ITS EFFECT ON THE PARENT PARCEL, PROPOSED LEASE AREA OR THE PROPOSED ACCESS AND UTILITY EASEMENT.)
6. EASEMENT IN FAVOR OF MONROE COUNTY WATER DISTRICT SET FORTH IN INSTRUMENT RECORDED ON DECEMBER 11, 1991 IN DEED BOOK 71, PAGE 593. (EASEMENT AS RECORDED IN BOOK 71, PAGE 593 DOES NOT HAVE SUFFICIENT DATA TO PLOT OR DETERMINE ITS EFFECT ON THE PARENT PARCEL, PROPOSED LEASE AREA OR THE PROPOSED ACCESS AND UTILITY EASEMENT.)
7. COMMERCIAL REAL ESTATE MORTGAGE FUTURE ADVANCES AND FUTURE OBLIGATIONS ARE SECURED BY THIS REAL ESTATE MORTGAGE FROM KEGAN GRAVES, KELBY GRAVES AND KAYLIN GRAVES, GRANTOR(S), IN FAVOR OF FARM CREDIT MID-AMERICA, FICA, DATED JUNE 17, 2017 AND RECORDED JUNE 24, 2019 IN DEED BOOK M179, PAGE 715. IN THE ORIGINAL AMOUNT OF \$1,811,388.25. (NOT A LAND SURVEYING MATTER, THEREFORE, POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
8. UCC/FINANCING STATEMENT BETWEEN KELBY GRAVES AND KAYLIN BROOKE GRAVES, DEBTOR(S), AND FARM CREDIT MID-AMERICA, FICA, CREDITOR, FILED ON JUNE 24, 2019, IN THE OFFICIAL RECORDS AS DEED BOOK M185, PAGE 81, IN THE ORIGINAL AMOUNT OF \$753,419.00. (NOT A LAND SURVEYING MATTER, THEREFORE, POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
9. COMMERCIAL REAL ESTATE MORTGAGE FUTURE ADVANCES AND FUTURE OBLIGATIONS ARE SECURED BY THIS LINE OF CREDIT MORTGAGE FROM KEGAN GRAVES, KELBY L GRAVES AND KAYLIN GRAVES, GRANTOR(S), IN FAVOR OF FARM CREDIT MID-AMERICA, FICA DATED APRIL 27, 2020 AND RECORDED APRIL 29, 2020 IN DEED BOOK M185, PAGE 81, IN THE ORIGINAL AMOUNT OF \$753,419.00. (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 DIRECT SUPERVISION, AND THAT THE DIRECTIONAL AND LINEAR MEASUREMENTS BEING WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. THE "RURAL" SURVEY, AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECIFICATIONS AS STATED IN KAR 201.18-150.



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

PREPARED BY: **POD** POWER OF DESIGN  
13490 BLUEGRASS PARKWAY  
LOUISVILLE, KY 40299  
502-437-5232

PREPARED FOR: **CELLCO PARTNERSHIP** D/B/A **verizon**

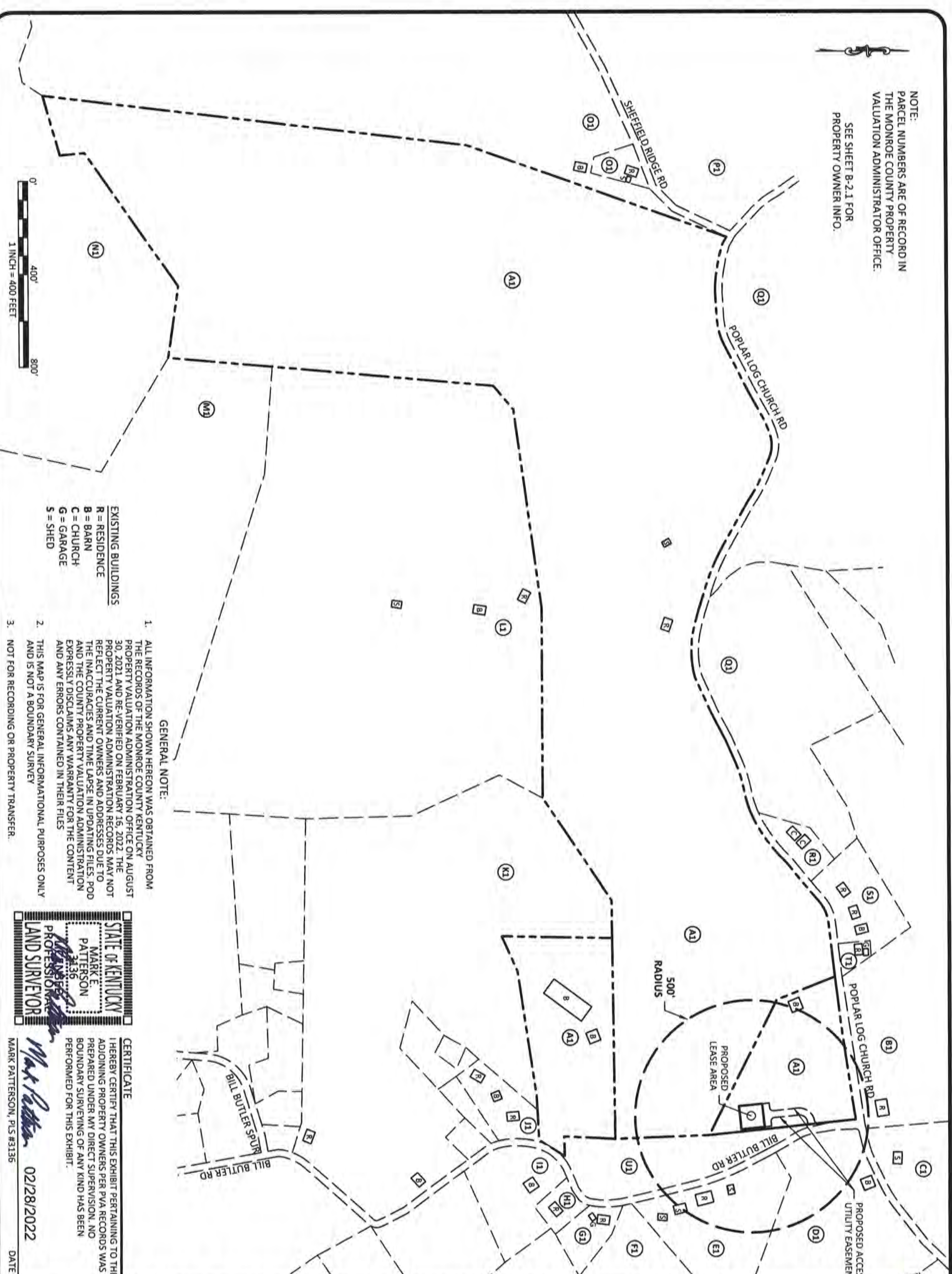
**SITE SURVEY**

REV	DATE	DESCRIPTION
A	9.14.21	PRELIMINARY ISSUE
0	10.27.21	ISSUED AS FINAL

**SITE INFORMATION:**  
**CK TOMPKINSVILLE III**  
 POPLAR LOG CHURCH ROAD  
 TOMPKINSVILLE, KY 42167  
 MONROE COUNTY  
 TAX PARCEL NUMBER:  
 48-02  
 PROPERTY OWNER:  
 KELBY GRAVES  
 KAYLIN GRAVES AND  
 KEGAN GRAVES  
 3033 EBENEZER ROAD  
 TOMPKINSVILLE, KY 42167  
 SOURCE OF TITLE:  
 DEED BOOK 133, PAGE 210

POD NUMBER: 21-102830  
 DRAWN BY: A/W  
 CHECKED BY: MEP  
 SURVEY DATE: 8.30.21  
 PLAT DATE: 9.14.21  
 SHEET TITLE:  
**SITE SURVEY**  
 THIS DOES NOT REPRESENT A  
 BOUNDARY SURVEY OF THE  
 PARENT PARCEL  
 SHEET NUMBER: (3 pages)  
**B-1.2**

NOTE:  
 PARCEL NUMBERS ARE OF RECORD IN  
 THE MONROE COUNTY PROPERTY  
 VALUATION ADMINISTRATOR OFFICE.  
 SEE SHEET B-2.1 FOR  
 PROPERTY OWNER INFO.



EXISTING BUILDINGS  
 R = RESIDENCE  
 B = BARN  
 C = CHURCH  
 G = GARAGE  
 S = SHED

GENERAL NOTE:  
 1. ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE MONROE COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON AUGUST 30, 2021 AND RE-VERIFIED ON FEBRUARY 16, 2022. THE PROPERTY VALUATION ADMINISTRATION RECORDS MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO THE INACCURACIES AND TIME LAPSE IN UPDATING FILES. POD AND THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIMS ANY WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES.  
 2. THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.  
 3. NOT FOR RECORDING OR PROPERTY TRANSFER.



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

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

PREPARED BY:  
**POD**  
 POWER OF DESIGN  
 11490 BLUEGRASS PARKWAY  
 LOUISVILLE, KY 40299  
 502-451-5282

CELLCO PARTNERSHIP  
 D/B/A  
**verizon**

REV.	DATE	DESCRIPTION
A	2.16.22	ISSUED FOR REVIEW
0	2.28.22	ISSUED AS FINAL

SITE INFORMATION:  
**CK TOMPKINSVILLE III**  
 POPLAR LOG CHURCH ROAD  
 TOMPKINSVILLE, KY 42167  
 MONROE COUNTY  
 TAX PARCEL NUMBER:  
 48-02  
 PROPERTY OWNER:  
 KELBY GRAVES  
 KAYLIN GRAVES AND  
 KEGAN GRAVES  
 3033 EBENEZER ROAD  
 TOMPKINSVILLE, KY 42167  
 SOURCE OF TITLE:  
 DEED BOOK 133, PAGE 210

POD NUMBER: 21-102832  
 DRAWN BY: MTH  
 CHECKED BY: MEP  
 SURVEY DATE: 8.30.21  
 PLAT DATE: 2.16.22

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

SHEET NUMBER: (2 pages)  
**B-2**

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

ADJACENT PROPERTY OWNERS

- A1** PARCEL ID: 48-02  
GRAVES KELBY & KAYLIN  
GRAVES KEGAN  
3033 EBENEZER ROAD  
TOMPKINSVILLE KY 42167
- B1** PARCEL ID: 47-116  
BUTLER BERT  
3199 POPLAR LOG CHURCH ROAD  
TOMPKINSVILLE, KY 42167
- C1** PARCEL ID: 47-115  
BUTLER BERT  
3199 POPLAR LOG CHURCH ROAD  
TOMPKINSVILLE, KY 42167
- D1** PARCEL ID: 47-114  
BUTLER MARK & ETAL  
75 OLD GLASSGOW ROAD  
TOMPKINSVILLE, KY 42167
- E1** PARCEL ID: 47-113  
THOMPSON ALBERT & MAITIE  
774 BILL BUTLER ROAD  
TOMPKINSVILLE, KY 42167
- F1** PARCEL ID: 48-06A  
BIGGESTAFF JOHNMY & KAYE  
1441 CENTER POINT ROAD  
TOMPKINSVILLE, KY 42167
- G1** PARCEL ID: 48-06  
DIAZ JAVIER CATALAN (LIFE ESTATE)  
KAREN, ANGEL & KATIE CATALAN  
696 BILL BUTLER ROAD  
TOMPKINSVILLE, KY 42167
- H1** PARCEL ID: 48-04.05  
ROMPALA BOBBY, SUSAN CLARKSON, ETAL  
C/O BOBBY ROMPALA  
656 BILL BUTLER ROAD  
TOMPKINSVILLE, KY 42167
- I1** PARCEL ID: 48-04.02  
CATALAN ANGEL  
C/O JAVIER CATALAN DIAZ  
696 BILL BUTLER ROAD  
TOMPKINSVILLE, KY 42167
- J1** PARCEL ID: 48-04.09  
PROFFITT MICHAEL R & PAULA  
585 BILL BUTLER ROAD  
TOMPKINSVILLE, KY 42167
- K1** PARCEL ID: 48-04  
GRAVES WILBUR  
8347 COUNTY HOUSE ROAD  
TOMPKINSVILLE, KY 42167-7605
- L1** PARCEL ID: 48-03  
GRAVES WILBUR  
8347 COUNTY HOUSE ROAD  
TOMPKINSVILLE, KY 42167-7605
- M1** PARCEL ID: 48-26  
GRAVES WILBUR  
8347 COUNTY HOUSE ROAD  
TOMPKINSVILLE, KY 42167-7605
- N1** PARCEL ID: 48-02.01  
GRAVES RICKY  
267 TIM LEE CARTER ROAD  
TOMPKINSVILLE, KY 42167
- O1** PARCEL ID: 48-01  
WILSON STEVIE JOE & DANETTA  
4279 COUNTY HOUSE ROAD  
TOMPKINSVILLE, KY 42167
- P1** PARCEL ID: 47-125  
THE MAXINE L TURNER & SHEILA K  
TURNER  
REVOCABLE LIVING TRUST  
1600 G EMMERT ROAD  
TOMPKINSVILLE KY 42167
- Q1** PARCEL ID: 47-123  
SHEFFIELD BILLY JOE  
256 SHEFFIELD RIDGE ROAD  
TOMPKINSVILLE, KY 42167
- R1** PARCEL ID: 47-120  
POPULAR LOG BAPTIST CHURCH  
POPULAR LOG ROAD  
TOMPKINSVILLE, KY 42167
- S1** PARCEL ID: 47-119  
STRODE JIMMY LOUIS  
3033 POPULAR LOG CHURCH ROAD  
TOMPKINSVILLE, KY 42167
- T1** PARCEL ID: 47-117  
CARTER CONNIE F  
3059 POPULAR LOG CHURCH ROAD  
TOMPKINSVILLE, KY 42167
- U1** PARCEL ID: 47-118  
BUTLER MARY ANN  
265 KYTE STREET  
COLUMBUS, IN 47201

GENERAL NOTE:

1. ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE MONROE COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON AUGUST 30, 2021 AND RE-VERIFIED ON FEBRUARY 16, 2022. THE PROPERTY VALUATION ADMINISTRATION RECORDS MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO THE INACCURACIES AND TIME LAPSE IN UPDATING FILES. POD AND THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIMS ANY WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES
2. THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY
3. NOT FOR RECORDING OR PROPERTY TRANSFER.



**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  
02/28/2022  
DATE  
MARK PATTERSON, PLS #3336

PREPARED BY:  
**POD**  
POWER OF DESIGN  
11490 BLUEGRASS PARKWAY  
LOUISVILLE, KY 40229  
502-451-5252

CELLCO PARTNERSHIP  
D/B/A  
**verizon**

REVISIONS

REV.	DATE	DESCRIPTION
A	2.16.22	ISSUED FOR REVIEW
0	2.28.22	ISSUED AS FINAL

SITE INFORMATION:

**CK TOMPKINSVILLE III**  
POPULAR LOG CHURCH ROAD  
TOMPKINSVILLE, KY 42167  
MONROE COUNTY  
TAX PARCEL NUMBER:  
48-02  
PROPERTY OWNER:  
KELBY GRAVES  
KAYLIN GRAVES AND  
KEGAN GRAVES  
3033 EBENEZER ROAD  
TOMPKINSVILLE, KY 42167  
SOURCE OF TITLE:  
DEED BOOK 133, PAGE 210

POD NUMBER: 21-102832  
DRAWN BY: MTH  
CHECKED BY: MEP  
SURVEY DATE: 8.30.21  
PLAT DATE: 2.16.22

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

SHEET NUMBER: (2 pages)  
**B-2.1**

**REVISION LOG**

REV #	MM/DD/YY	SHEET NUMBER	DESCRIPTION OF REVISION
A	2/14/2022	ALL SHEETS	ISSUED FOR REVIEW
0	2/28/2022	ALL SHEETS	ISSUED AS FINAL



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

CELLCO PARTNERSHIP  
DB/A  
**verizon**

03/01/2022



MARK E. PATTERSON  
16300  
PROFESSIONAL ENGINEER  
STATE OF KENTUCKY

EN PERMIT : 3594

**ZONING DRAWINGS**

REV.	DATE	DESCRIPTION
A	2.14.22	ISSUED FOR REVIEW
0	2.28.22	ISSUED AS FINAL

SITE INFORMATION:

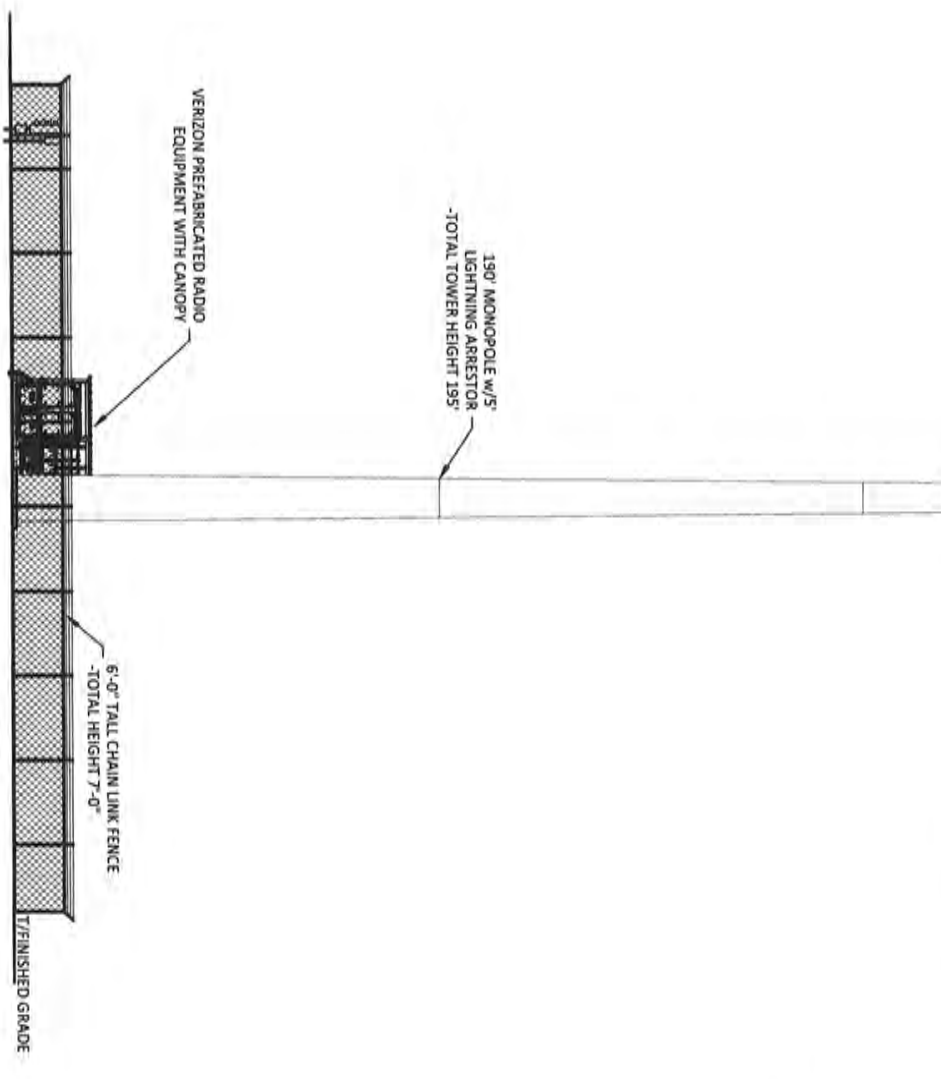
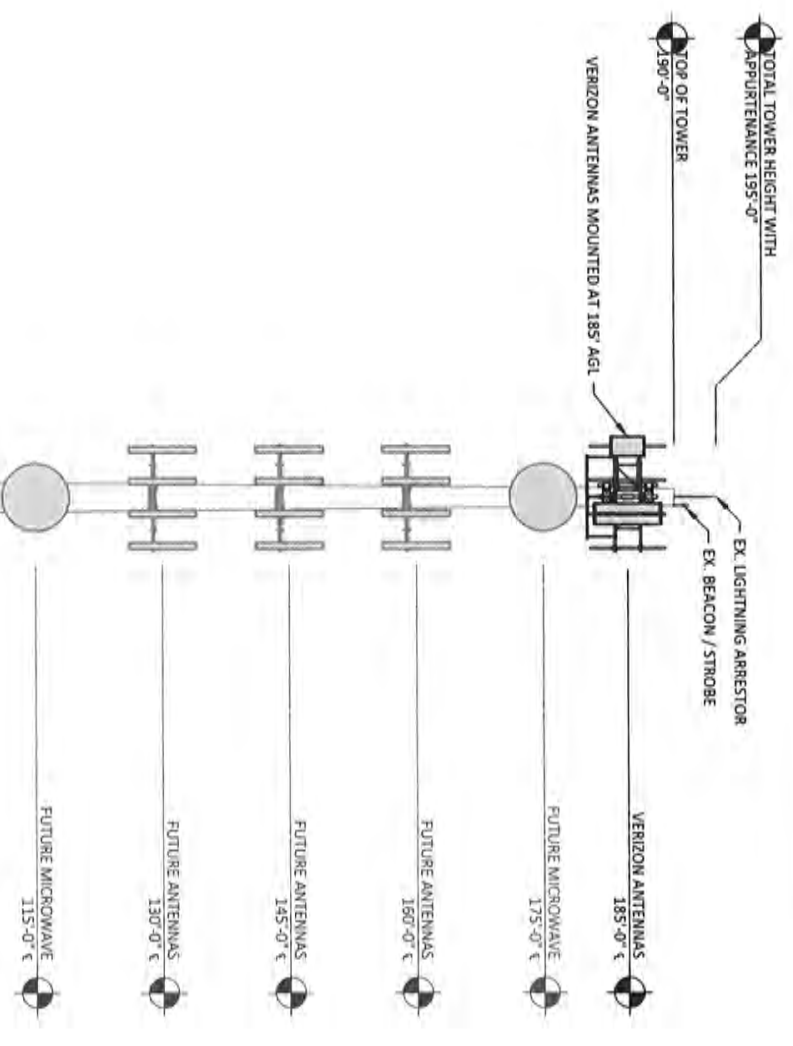
**CK TOMPKINSVILLE III**  
POPULAR LOG CHURCH ROAD  
TOMPKINSVILLE, KY 42167  
MONROE COUNTY

POD NUMBER: 21-102837  
DRAWN BY: POD  
CHECKED BY: MEP  
DATE: 02.14.22  
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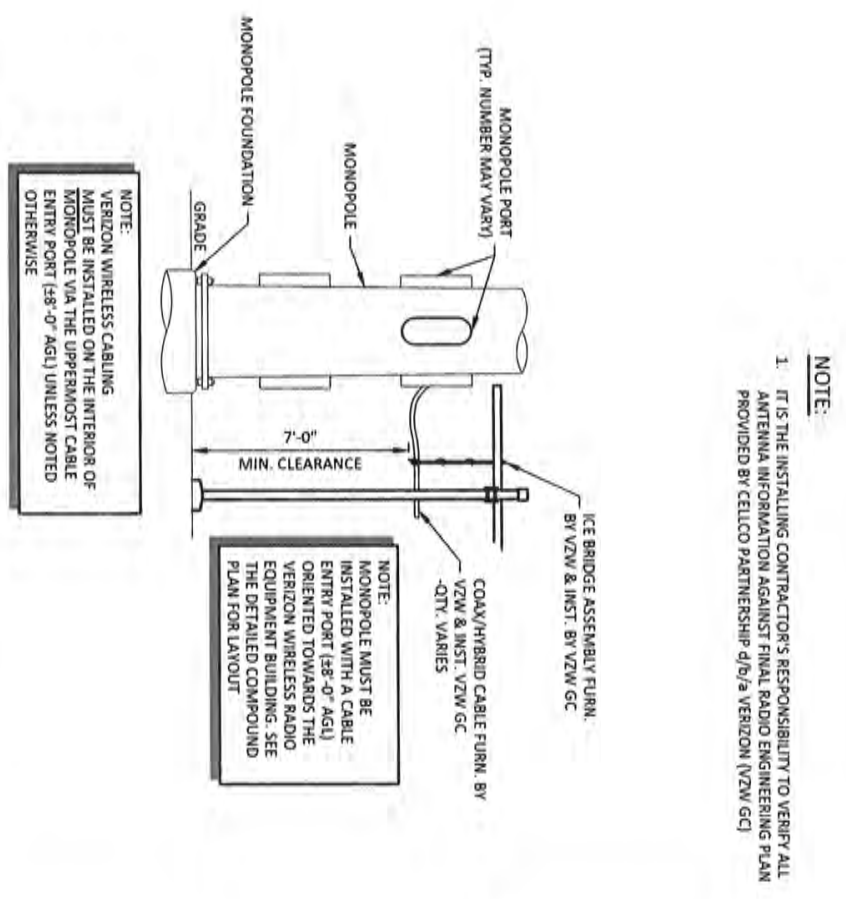
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SHEET NUMBER:  
**R-1**

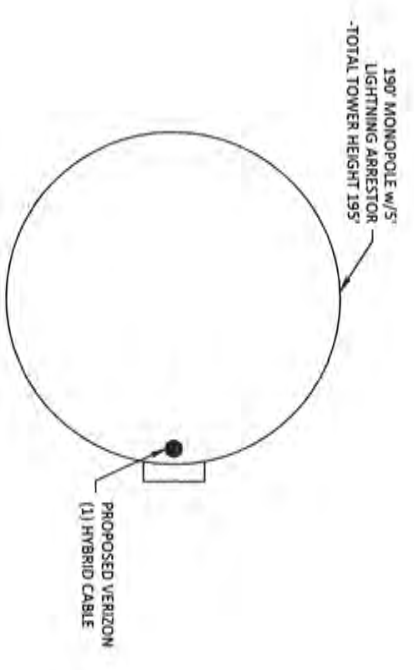




**TOWER ELEVATION**  
SCALE: N.T.S.  
**1**  
TE-1

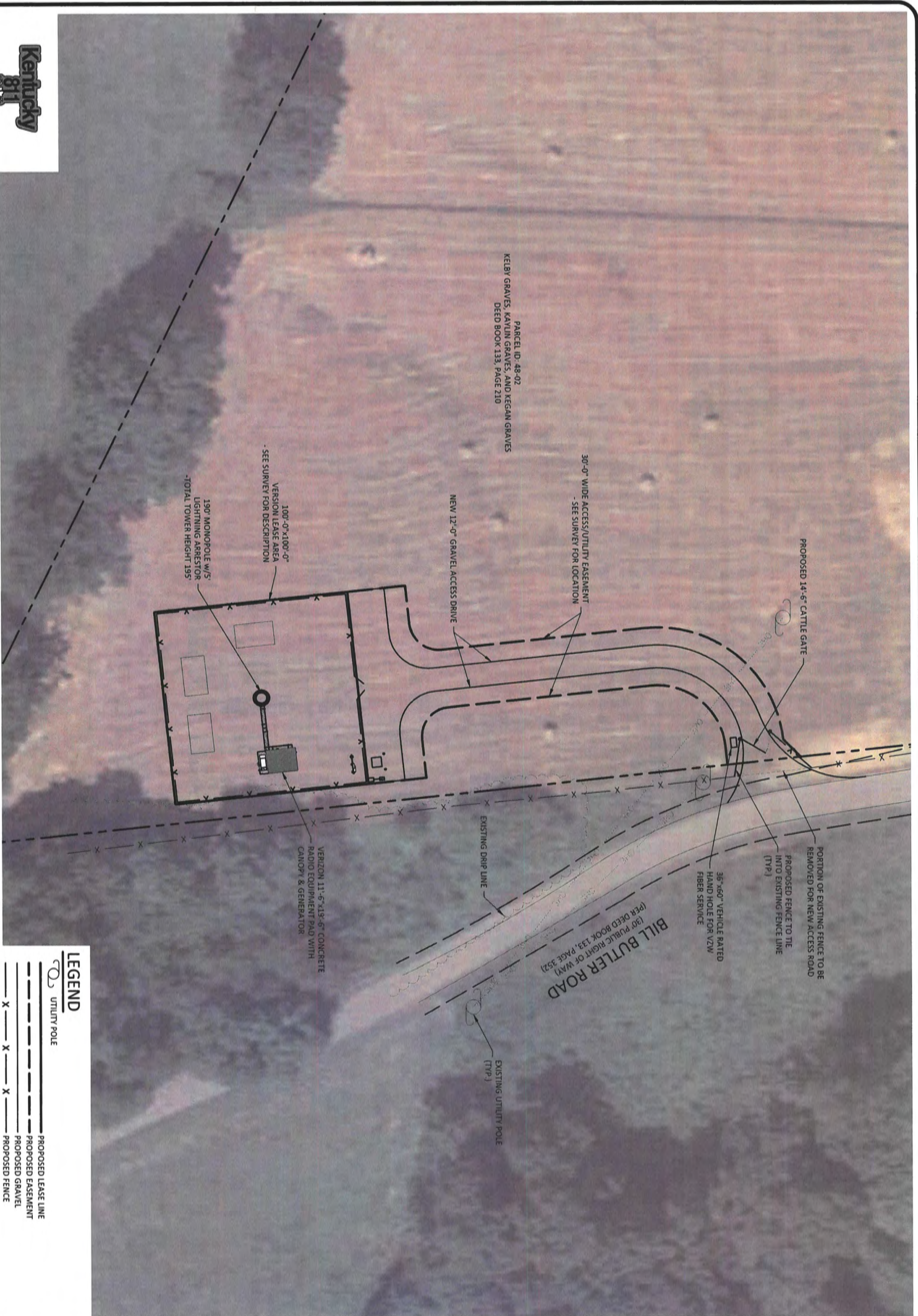


**MONOPOLE PORT HYBRID CABLE INSTALLATION DETAIL**  
SCALE: N.T.S.  
**2**  
TE-1



**COAX PLAN**  
SCALE: N.T.S.  
N

<p>11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40299 502-437-9252</p>		<p>CELLCO PARTNERSHIP D/B/A</p>		<p>03/01/2022</p>	
<p>STATE OF KENTUCKY MARK E. PATTERSON 16,300 PROFESSIONAL ENGINEER</p>		<p>EN PERMIT: 3594</p>		<p>ZONING DRAWINGS</p>	
REV	DATE	DESCRIPTION			
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<p>SITE INFORMATION:</p> <p><b>CK TOMPKINSVILLE III</b> POPULAR LOG CHURCH ROAD TOMPKINSVILLE, KY 42167 MONROE COUNTY</p>					
POD NUMBER:	21-102837				
DRAWN BY:	POD				
CHECKED BY:	MEP				
DATE:	02.14.22				
<p>SHEET TITLE: <b>TOWER ELEVATION</b></p>					
<p>SHEET NUMBER: <b>TE-1</b></p>					



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**OVERALL SITE PLAN W/AERIAL OVERLAY**  
 SCALE: 1" = 50'

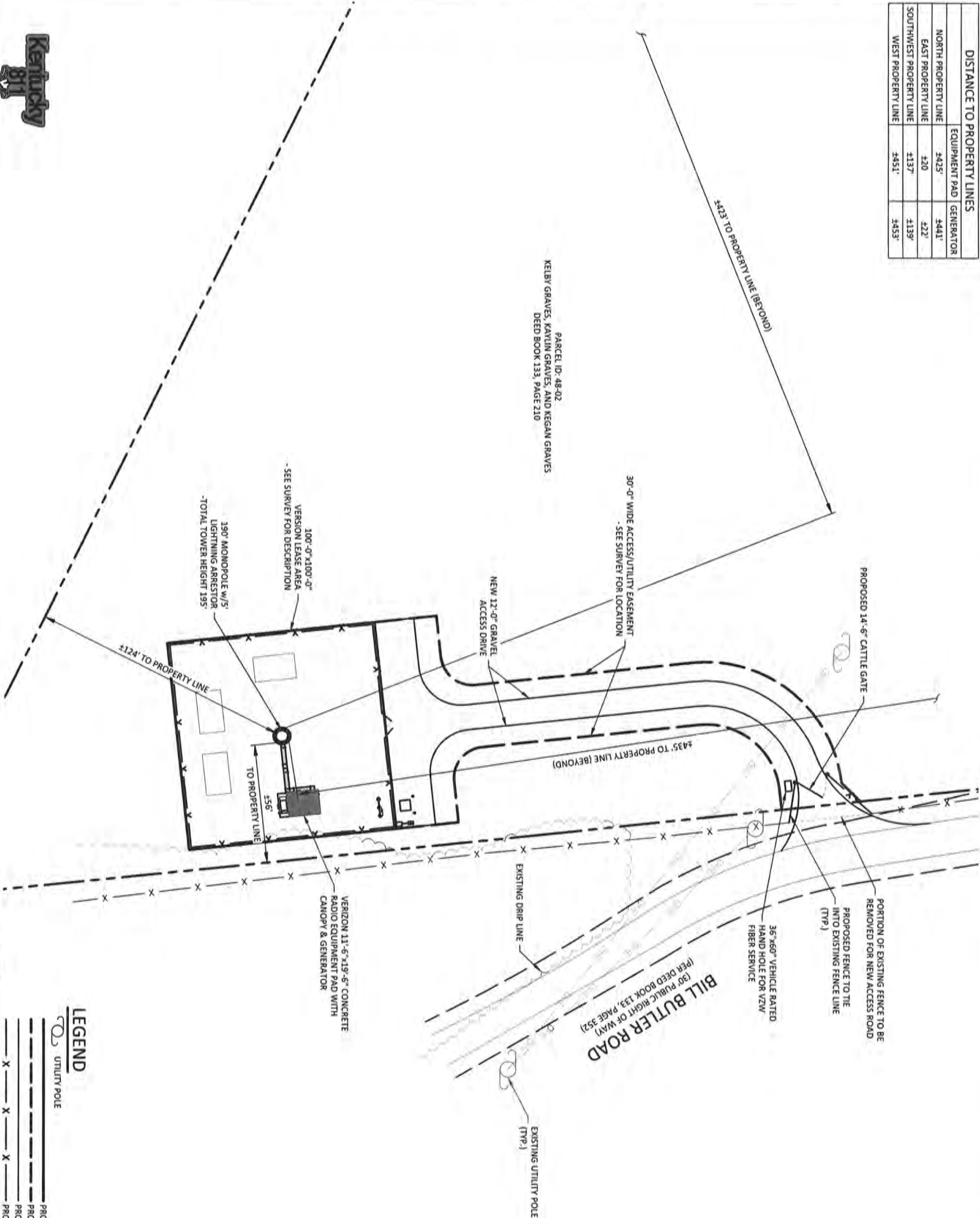


**LEGEND**

	UTILITY POLE
	PROPOSED LEASE LINE
	PROPOSED EASEMENT
	PROPOSED GRAVEL
	PROPOSED FENCE
	EXISTING FENCE
	EXISTING OVERHEAD ELECTRIC
	EXISTING PAVEMENT
	PROPERTY LINE
	EXISTING ROW

 11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40259 502-437-9252	CELLCO PARTNERSHIP D/B/A 	03/01/2022
		EN PERMIT: 3594
STATE OF KENTUCKY MARK E. PATTERSON 16 300 PROFESSIONAL ENGINEER		
ZONING DRAWINGS		
REV. DATE DESCRIPTION	A 2.14.22 ISSUED FOR REVIEW 0 2.28.22 ISSUED AS FINAL	
SITE INFORMATION: CK TOMPKINSVILLE III POPULAR LOG CHURCH ROAD TOMPKINSVILLE, KY 42167 MONROE COUNTY		
POD NUMBER: 21-102837 DRAWN BY: POD CHECKED BY: MEP DATE: 02.14.22	SHEET TITLE: OVERALL SITE PLAN W/AERIAL OVERLAY SHEET NUMBER: C-1	

DISTANCE TO PROPERTY LINES			
EQUIPMENT PAD	GENERATOR		
NORTH PROPERTY LINE	±425'	±441'	
EAST PROPERTY LINE	±20'	±22'	
SOUTHWEST PROPERTY LINE	±137'	±139'	
WEST PROPERTY LINE	±451'	±453'	



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 FOR KENTUCKY STATE LAW, IT IS ILLEGAL TO REPRODUCE THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF THE DESIGNER. CONTACT YOUR DESIGNER FOR MORE INFORMATION.



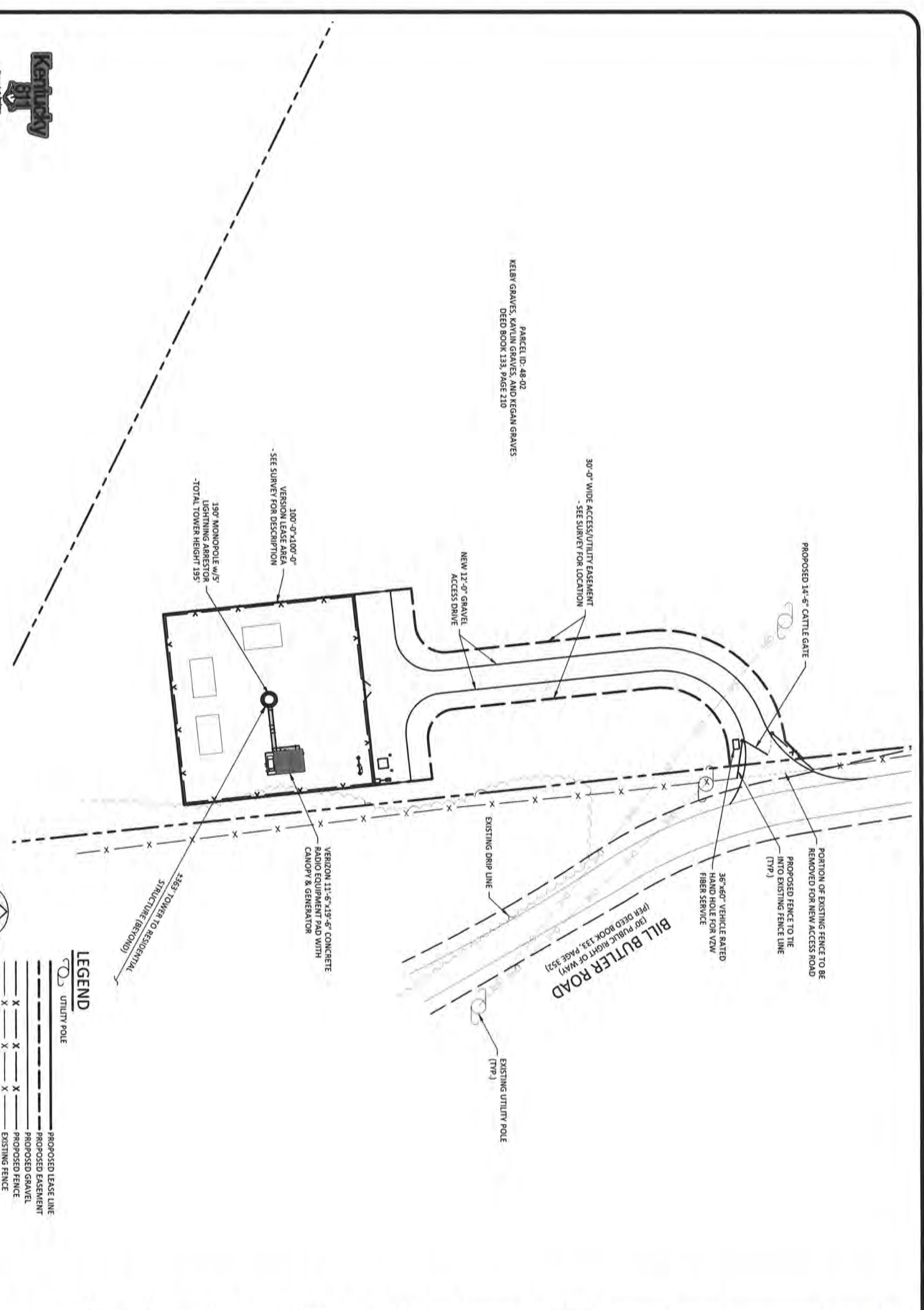
**OVERALL SITE PLAN W/DISTANCE TO PROPERTY LINES**  
 SCALE: 1" = 50'



**LEGEND**

	UTILITY POLE
	PROPOSED LEASE LINE
	PROPOSED EASEMENT
	PROPOSED GRAVEL
	PROPOSED FENCE
	EXISTING FENCE
	EXISTING OVERHEAD ELECTRIC
	EXISTING PAVEMENT
	PROPERTY LINE
	EXISTING ROW

 POWER OF DESIGN 11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40299 502-437-5252	CELLCO PARTNERSHIP DB/A 	03/01/2022 EN PERMIT: 3594		<b>ZONING DRAWINGS</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>2.14.22</td> <td>ISSUED FOR REVIEW</td> </tr> <tr> <td>0</td> <td>2.28.22</td> <td>ISSUED AS FINAL</td> </tr> </tbody> </table>	REV.	DATE	DESCRIPTION	A	2.14.22	ISSUED FOR REVIEW	0	2.28.22	ISSUED AS FINAL
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CK TOMPKINSVILLE III POPULAR LOG CHURCH ROAD TOMPKINSVILLE, KY 42167 MONROE COUNTY													
POD NUMBER: 21-102837 DRAWN BY: POD CHECKED BY: MEP DATE: 02.14.22													
SHEET TITLE: <b>OVERALL SITE PLAN W/DISTANCE TO PROPERTY LINES</b> SHEET NUMBER: <b>C-1A</b>													



**DISTANCE TO RESIDENTIAL STRUCTURE**  
SCALE: 1" = 50'



**LEGEND**

	UTILITY POLE
	PROPOSED LEASE LINE
	PROPOSED EASEMENT
	PROPOSED GRAVEL
	PROPOSED FENCE
	EXISTING FENCE
	EXISTING PAVEMENT
	EXISTING OVERHEAD ELECTRIC
	PROPERTY LINE
	EXISTING ROW

 11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40259 502-437-5252	CELLCO PARTNERSHIP DB/A 	03/01/2022 EN PERMIT: 3594		<b>ZONING DRAWINGS</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>2.14.22</td> <td>ISSUED FOR REVIEW</td> </tr> <tr> <td>0</td> <td>2.28.22</td> <td>ISSUED AS FINAL</td> </tr> </tbody> </table>	REV	DATE	DESCRIPTION	A	2.14.22	ISSUED FOR REVIEW	0	2.28.22	ISSUED AS FINAL
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CK TOMPKINSVILLE III POPULAR LOG CHURCH ROAD TOMPKINSVILLE, KY 42167 MONROE COUNTY													
SITE INFORMATION:													
POD NUMBER: 21-102837 DRAWN BY: POD CHECKED BY: MEP DATE: 02.14.22													
SHEET TITLE: <b>DISTANCE TO RESIDENTIAL STRUCTURE</b> SHEET NUMBER: <b>C-1B</b>													

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

CELLCO PARTNERSHIP  
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03/01/2022  
 STATE OF KENTUCKY  
 MARK E. PATTERSON  
 PROFESSIONAL ENGINEER  
 EN PERMIT : 3594

**ZONING DRAWINGS**

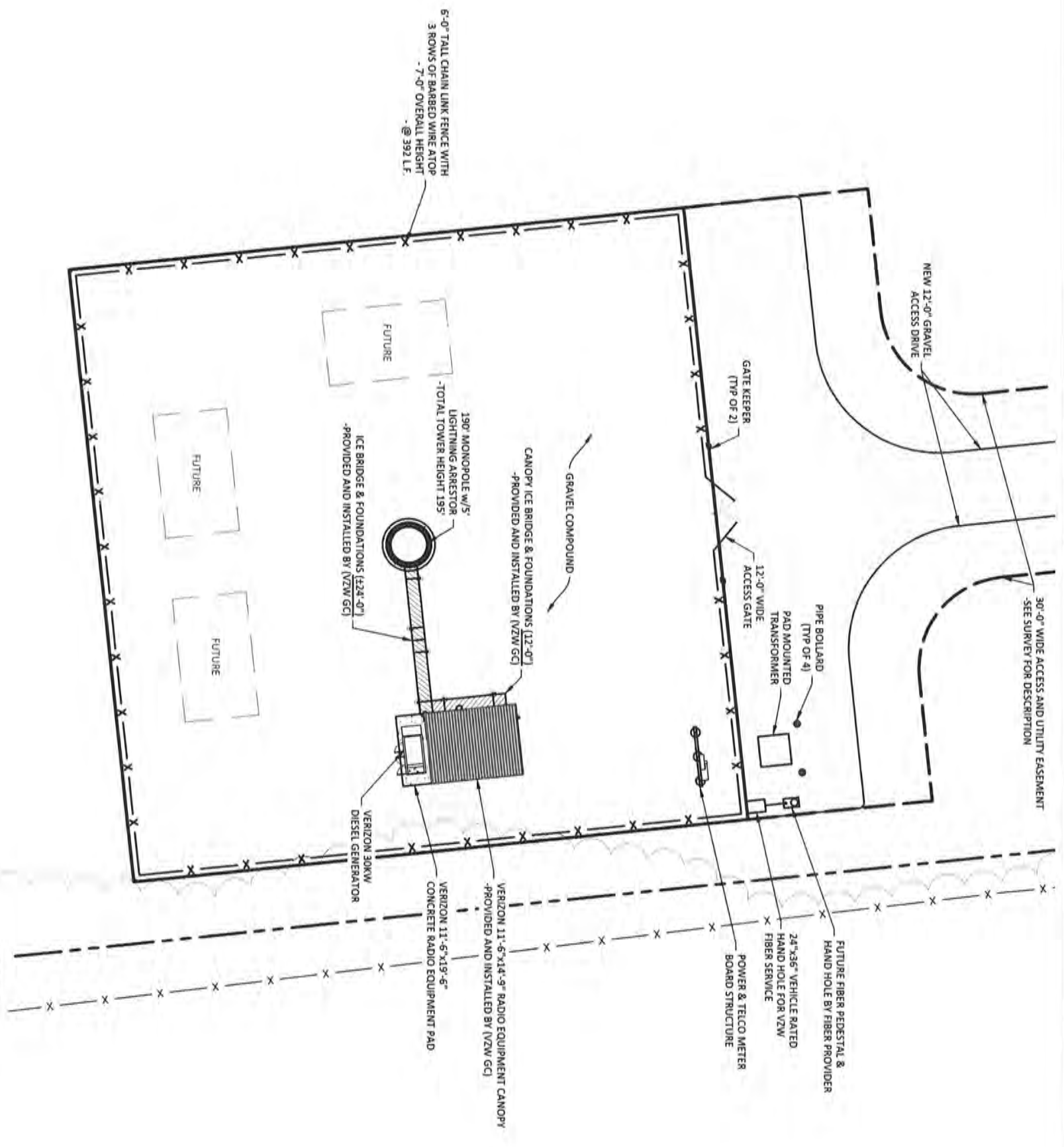
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**SITE INFORMATION:**  
**CK TOMPKINSVILLE III**  
 POPULAR LOG CHURCH ROAD  
 TOMPKINSVILLE, KY 42167  
 MONROE COUNTY

POD NUMBER: 21-102837  
 DRAWN BY: POD  
 CHECKED BY: MRP  
 DATE: 02.14.22  
 SHEET TITLE:

**DETAILED SITE PLAN**

SHEET NUMBER:  
**C-3**



**LEGEND**

	UTILITY POLE
	PROPOSED LEASE LINE
	PROPOSED EASEMENT
	PROPOSED GRAVEL
	PROPOSED FENCE
	EXISTING FENCE
	EXISTING OVERHEAD ELECTRIC
	EXISTING PAVEMENT
	PROPERTY LINE
	EXISTING ROW

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



**DETAILED SITE PLAN**  
 SCALE: 1" = 20'



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03/01/2022



EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
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0	2.28.22	ISSUED AS FINAL

SITE INFORMATION:

**CK TOMPKINSVILLE III**  
POPULAR LOG CHURCH ROAD  
TOMPKINSVILLE, KY 42167  
MONROE COUNTY

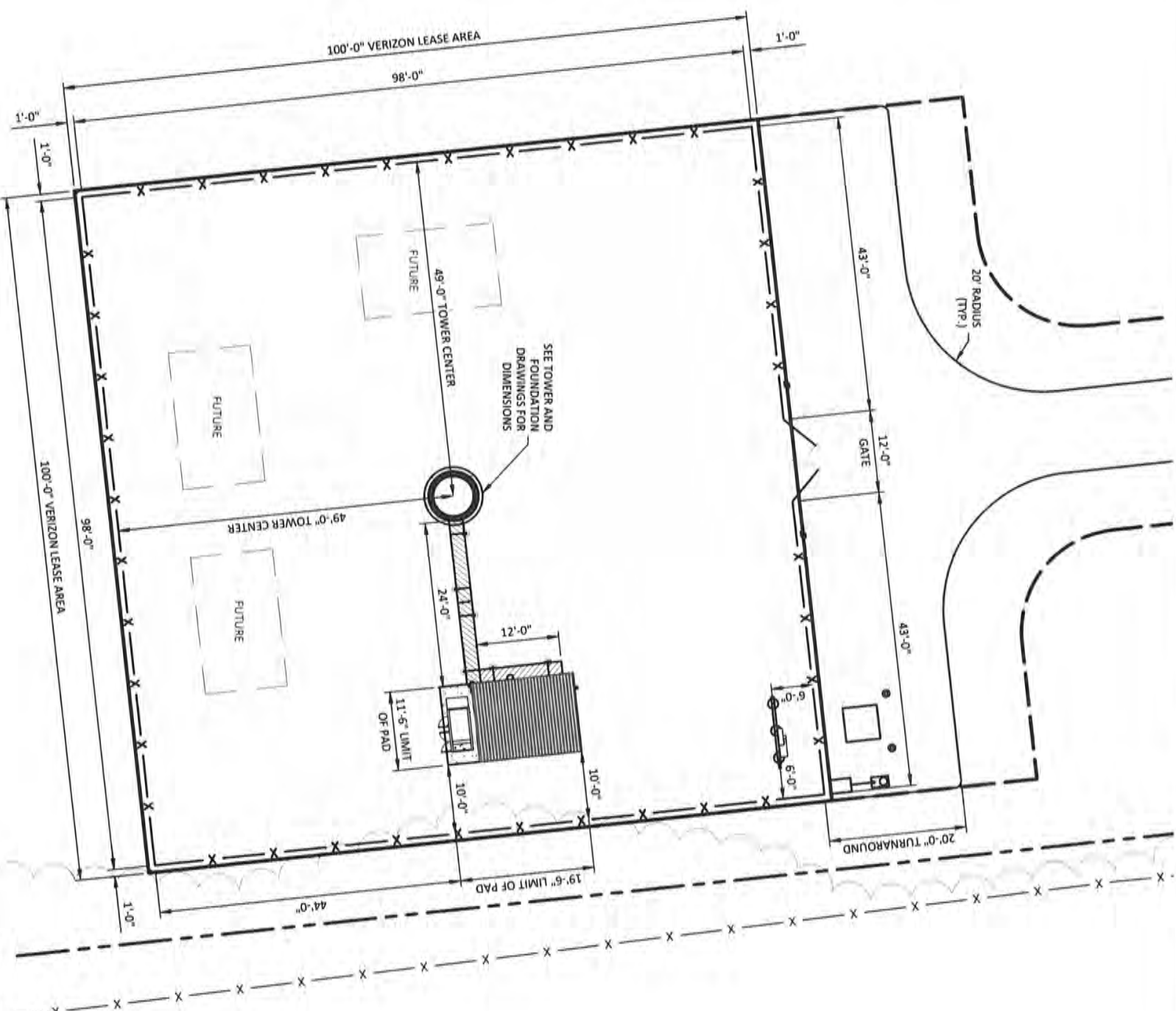
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DRAWN BY: POD  
CHECKED BY: MEP  
DATE: 02.14.22

SHEET TITLE:

DIMENSIONED SITE PLAN

SHEET NUMBER:

C-4



LEGEND

- UTILITY POLE
- PROPOSED LEASE LINE
- PROPOSED EASEMENT
- PROPOSED GRAVEL
- PROPOSED FENCE
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC
- EXISTING PAVEMENT
- PROPERTY LINE
- EXISTING ROW



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\*NOTE:  
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SOIL, ETC. OUTSIDE OF THE STAKED LEASE  
AREA WITHOUT APPROVAL FROM  
VERIZON CONSTRUCTION MANAGER



DIMENSIONED SITE PLAN

SCALE: 1" = 20'





## Structural Design Report

195' Monopole

Site: Thompkinsville, KY

Site Number: KY-001

Prepared for: SOUTHERN TOWERS  
by: Sabre Industries™

Job Number: 503060

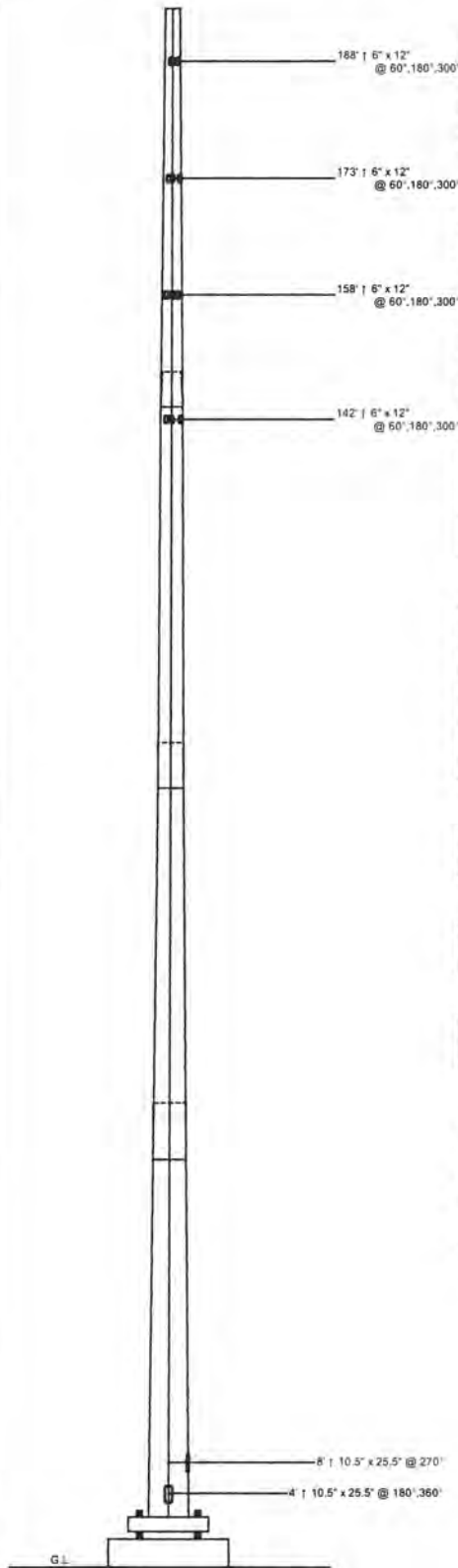
April 20, 2022

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: 2022.04.20 12:01:06

Length (ft)	51'-3"	53'-6"	53'-6"	53'-3"
Number Of Sides	18			
Thickness (in)	3/8"	7/16"	7'-3"	
Lap Splice (ft)	A	5'-5"		
Top Diameter (in)	30.26"	38.89"	48.27"	
Bottom Diameter (in)	42"	51.74"	60.96"	
Taper (in/ft)	0.2195			
Grade	A572 65			
Weight (lbs)	8305	12176	16383	
Overall Street Height (ft)	194			



### Designed Appurtenance Loading

Elev	Description	Tx-Line
190	(1) 40,000 sq. in. antenna loading (below top)	(12) 1 5/8"
175	(1) 30,000 sq. in. antenna loading (below top)	(12) 1 5/8"
160	(1) 30,000 sq. in. antenna loading (below top)	(12) 1 5/8"
145	(1) 30,000 sq. in. antenna loading (below top)	(12) 1 5/8"

### Design Criteria - ANSI/TIA-222-H

Wind Speed (No Ice)	105 mph
Wind Speed (Ice)	30 mph
Design Ice Thickness	1.50 in
Risk Category	II
Exposure Category	C
Topographic Factor Procedure	Method 1 (Simplified)
Topographic Category	1
Ground Elevation	1007 ft
Seismic Importance Factor, I <sub>e</sub>	1.00
0.2-sec Spectral Response, S <sub>s</sub>	0.198 g
1-sec Spectral Response, S <sub>1</sub>	0.108 g
Site Class	D (DEFAULT)
Seismic Design Category	C
Basic Seismic Force-Resisting System	Telecommunication Tower (Pole: Steel)

### Limit State Load Combination Reactions

Load Combination	Axial (kips)	Shear (kips)	Moment (ft-k)	Deflection (ft)	Sway (deg)
1.2 D + 1.0 W <sub>o</sub>	75.71	43.58	6792.94	19.43	11.11
0.9 D + 1.0 W <sub>o</sub>	56.83	43.55	6611.42	18.77	10.69
1.2 D + 1.0 D <sub>i</sub> + 1.0 W <sub>i</sub>	124.13	6.51	1123.43	3.45	1.97
1.2 D + 1.0 E <sub>v</sub> + 1.0 E <sub>h</sub>	78.32	1.88	334.41	1.03	0.59
0.9 D - 1.0 E <sub>v</sub> + 1.0 E <sub>h</sub>	54.08	1.89	323.47	0.99	0.56
1.0 D + 1.0 W <sub>o</sub> (Service @ 60 mph)	63.15	12.75	1974.07	5.79	3.26

### Base Plate Dimensions

Shape	Diameter	Thickness	Bolt Circle	Bolt Qty	Bolt Diameter
Round	73.75"	2.25"	68"	22	2.25"

### Anchor Bolt Dimensions

Length	Diameter	Hole Diameter	Weight	Type	Finish
84"	2.25"	2.625"	2664.2	A615-75	Galv

### Material List

Display	Value
A	4" - 6"

### Notes

- 1) Antenna Feed Lines Run Inside Pole
- 2) All dimensions are above ground level, unless otherwise specified.
- 3) Weights shown are estimates. Final weights may vary.
- 4) Full Height Step Bolts
- 5) Tower Rating: 99.5%
- 6) This tower design and, if applicable, the foundation design(s) shown on the following page(s) also meet or exceed the requirements of the 2018 Kentucky Building Code.



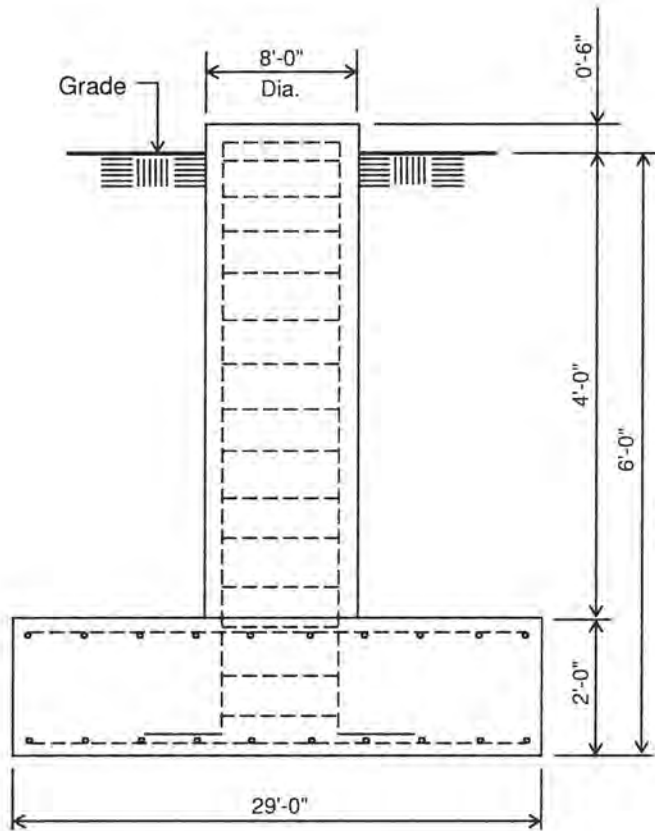
**Sabre Industries**  
 7101 Southbridge Drive  
 P.O. Box 658  
 Sioux City, IA 51102-0658  
 Phone: (712) 258-6690  
 Fax: (712) 279-0814

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Job: **503060**  
 Customer: **SOUTHERN TOWERS**  
 Site Name: **Thompskinsville, KY KY-001**  
 Description: **195' Monopole**  
 Date: **2022.04.20** By: **DJH**



**Customer: SOUTHERN TOWERS**  
**Site: Thompkinsville, KY KY-001**  
195' Monopole



**ELEVATION VIEW**  
(70.67 Cu. Yds.)  
(1 REQUIRED; NOT TO SCALE)

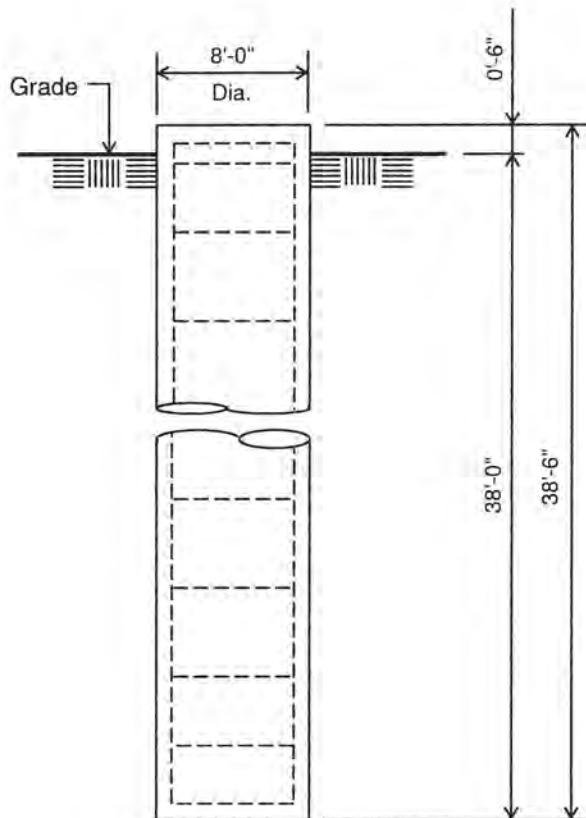
**Notes:**

- 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 Co., Inc.; project# 363-22-01; dated March 30, 2022.
- 6) See the geotechnical report for compaction requirements, if specified.
- 7) 4 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) #10 vertical rebar w/ hooks at bottom w/ #5 ties, (2) within top 5" of pier, then 4" C/C
Pad	(42) #10 horizontal rebar evenly spaced each way top and bottom (168 total)

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**Customer: SOUTHERN TOWERS**  
**Site: Thompkinsville, KY KY-001**  
195' Monopole



**ELEVATION VIEW**

(71.67 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 Co., Inc.; project# 363-22-01; 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	(54) #10 vertical rebar w/ #5 ties, (2) within top 5" of pier, then 7" C/C

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Sabre Towers and Poles on: 20 apr 2022 at: 10:54:05

195' Monopole / Thompkinsville, KY

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

POLE GEOMETRY

ELEV ft	SECTION NAME	No. SIDE	OUTSIDE DIAM in	THICK -NESS in	RESISTANCES φ*Pn kip	φ*Mn ft-kip	SPLICE TYPE	...OVERLAP... LENGTH ft	RATIO	w/t
194.0	A	18	20.82	0.250	1193.8	495.1				13.2
147.2	A/B	18	31.23	0.250	1684.8	1056.7	SLIP	4.50	1.73	
142.7	B	18	31.74	0.375	2730.9	1727.5				13.8
99.5	B/C	18	41.36	0.375	3457.6	2866.1	SLIP	5.75	1.67	
93.7	C	18	41.90	0.438	4212.2	3527.7				15.8
53.2	C/D	18	50.90	0.438	4884.2	4987.8	SLIP	7.25	1.71	
46.0	D	18	51.66	0.438	4935.0	5115.6				19.6
0.0			61.90	0.438	5560.0	6925.6				

POLE ASSEMBLY

SECTION NAME	BASE ELEV ft	BOLTS NUMBER	AT BASE TYPE	OF SECTION DIAM in	STRENGTH ksi	THREADS IN SHEAR PLANE	CALC BASE ELEV ft
A	142.750	0	A325	0.00	92.0	0	142.750
B	93.750	0	A325	0.00	92.0	0	93.750
C	46.000	0	A325	0.00	92.0	0	46.000
D	0.000	0	A325	0.00	92.0	0	0.000

POLE SECTIONS

SECTION NAME	No. of SIDES	LENGTH ft	OUTSIDE DIAMETER BOT * in	TOP * in	BEND RAD in	MAT- ERIAL ID	FLANGE, ID BOT TOP	FLANGE, WELD GROUP, ID... BOT TOP
A	18	51.25	32.24	20.82	0.625	1	0 0	0 0
B	18	53.50	42.65	30.73	0.625	2	0 0	0 0
C	18	53.50	52.53	40.61	0.625	3	0 0	0 0
D	18	53.25	61.90	50.03	0.625	4	0 0	0 0

\* - Diameter of circumscribed circle

MATERIAL TYPES

TYPE OF SHAPE	TYPE NO	NO OF ELEM.	ORIENT & deg	HEIGHT in	WIDTH in	THICKNESS WEB FLANGE in in	IRREGULARITY PROJECTION, % OF ORIENT AREA deg
PL	1	1	0.0	32.24	0.25	0.250 0.250	0.00 0.0
PL	2	1	0.0	42.65	0.38	0.375 0.375	0.00 0.0

PL	3	1	0.0	52.53	0.44	0.438	0.438	0.00	0.0
PL	4	1	0.0	61.90	0.44	0.438	0.438	0.00	0.0

& - with respect to vertical

MATERIAL PROPERTIES

MATERIAL TYPE NO.	ELASTIC MODULUS ksi	UNIT WEIGHT pcf	.. STRENGTH ..		THERMAL COEFFICIENT /deg
			Fu ksi	Fy ksi	
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  
 \* 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 Wo)

LOADS ON POLE

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	192.500	0.00	0.0	0.0	0.0151	0.0084	0.0000	0.0000
C	189.000	0.00	0.0	0.0	0.0000	2.8305	0.0000	0.0000
C	189.000	0.00	0.0	0.0	9.1553	7.2000	0.0000	0.0000
C	185.000	0.00	0.0	0.0	0.0299	0.0168	0.0000	0.0000
C	175.000	0.00	0.0	0.0	0.0296	0.0168	0.0000	0.0000
C	174.000	0.00	0.0	0.0	0.0000	2.6058	0.0000	0.0000
C	174.000	0.00	0.0	0.0	6.7488	4.8000	0.0000	0.0000
C	165.000	0.00	0.0	0.0	0.0292	0.0168	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.0000	2.3812	0.0000	0.0000
C	159.000	0.00	0.0	0.0	6.6227	4.8000	0.0000	0.0000
C	155.000	0.00	0.0	0.0	0.0288	0.0168	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0284	0.0168	0.0000	0.0000
C	144.000	0.00	0.0	0.0	0.0000	2.1565	0.0000	0.0000
C	144.000	0.00	0.0	0.0	6.4869	4.8000	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0280	0.0168	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0275	0.0168	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0271	0.0168	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0265	0.0168	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0260	0.0168	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0254	0.0168	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0247	0.0168	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0240	0.0168	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0232	0.0168	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0222	0.0168	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0211	0.0168	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0196	0.0168	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0176	0.0168	0.0000	0.0000
D	194.000	0.00	180.0	0.0	0.0486	0.0713	0.0000	0.0000
D	178.417	0.00	180.0	0.0	0.0486	0.0713	0.0000	0.0000
D	178.417	0.00	180.0	0.0	0.0551	0.0823	0.0000	0.0000
D	162.833	0.00	180.0	0.0	0.0551	0.0823	0.0000	0.0000
D	162.833	0.00	180.0	0.0	0.0612	0.0932	0.0000	0.0000
D	147.250	0.00	180.0	0.0	0.0612	0.0932	0.0000	0.0000
D	147.250	0.00	180.0	0.0	0.0649	0.2483	0.0000	0.0000
D	142.750	0.00	180.0	0.0	0.0649	0.2483	0.0000	0.0000
D	142.750	0.00	180.0	0.0	0.0673	0.1579	0.0000	0.0000
D	128.333	0.00	180.0	0.0	0.0673	0.1579	0.0000	0.0000
D	128.333	0.00	180.0	0.0	0.0720	0.1732	0.0000	0.0000
D	113.917	0.00	180.0	0.0	0.0720	0.1732	0.0000	0.0000
D	113.917	0.00	180.0	0.0	0.0763	0.1884	0.0000	0.0000
D	99.500	0.00	180.0	0.0	0.0763	0.1884	0.0000	0.0000
D	99.500	0.00	180.0	0.0	0.0790	0.4272	0.0000	0.0000
D	93.750	0.00	180.0	0.0	0.0790	0.4272	0.0000	0.0000
D	93.750	0.00	180.0	0.0	0.0798	0.2400	0.0000	0.0000
D	80.250	0.00	180.0	0.0	0.0798	0.2400	0.0000	0.0000
D	80.250	0.00	180.0	0.0	0.0824	0.2567	0.0000	0.0000
D	66.750	0.00	180.0	0.0	0.0824	0.2567	0.0000	0.0000
D	66.750	0.00	180.0	0.0	0.0841	0.2733	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0841	0.2733	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0847	0.5678	0.0000	0.0000
D	46.000	0.00	180.0	0.0	0.0847	0.5678	0.0000	0.0000
D	46.000	0.00	180.0	0.0	0.0835	0.2932	0.0000	0.0000
D	11.500	0.00	180.0	0.0	0.0771	0.3216	0.0000	0.0000
D	11.500	0.00	180.0	0.0	0.0769	0.3358	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0769	0.3358	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. AT AZI	LOAD AZI	.....FORCES.....		.....MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	192.500	0.00	0.0	0.0	0.0151	0.0063	0.0000	0.0000
C	189.000	0.00	0.0	0.0	0.0000	2.1228	0.0000	0.0000
C	189.000	0.00	0.0	0.0	9.1553	5.4000	0.0000	0.0000
C	185.000	0.00	0.0	0.0	0.0299	0.0126	0.0000	0.0000
C	175.000	0.00	0.0	0.0	0.0296	0.0126	0.0000	0.0000
C	174.000	0.00	0.0	0.0	0.0000	1.9544	0.0000	0.0000
C	174.000	0.00	0.0	0.0	6.7488	3.6000	0.0000	0.0000
C	165.000	0.00	0.0	0.0	0.0292	0.0126	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.0000	1.7859	0.0000	0.0000
C	159.000	0.00	0.0	0.0	6.6227	3.6000	0.0000	0.0000
C	155.000	0.00	0.0	0.0	0.0288	0.0126	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0284	0.0126	0.0000	0.0000
C	144.000	0.00	0.0	0.0	0.0000	1.6174	0.0000	0.0000
C	144.000	0.00	0.0	0.0	6.4869	3.6000	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0280	0.0126	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0275	0.0126	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0271	0.0126	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0265	0.0126	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0260	0.0126	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0254	0.0126	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0247	0.0126	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0240	0.0126	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0232	0.0126	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0222	0.0126	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0211	0.0126	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0196	0.0126	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0176	0.0126	0.0000	0.0000
D	194.000	0.00	180.0	0.0	0.0487	0.0535	0.0000	0.0000
D	147.250	0.00	180.0	0.0	0.0613	0.0699	0.0000	0.0000
D	147.250	0.00	180.0	0.0	0.0649	0.1862	0.0000	0.0000
D	142.750	0.00	180.0	0.0	0.0649	0.1862	0.0000	0.0000
D	142.750	0.00	180.0	0.0	0.0673	0.1184	0.0000	0.0000
D	128.333	0.00	180.0	0.0	0.0673	0.1184	0.0000	0.0000
D	128.333	0.00	180.0	0.0	0.0720	0.1299	0.0000	0.0000
D	113.917	0.00	180.0	0.0	0.0720	0.1299	0.0000	0.0000
D	113.917	0.00	180.0	0.0	0.0763	0.1413	0.0000	0.0000
D	99.500	0.00	180.0	0.0	0.0763	0.1413	0.0000	0.0000
D	99.500	0.00	180.0	0.0	0.0790	0.3204	0.0000	0.0000
D	93.750	0.00	180.0	0.0	0.0790	0.3204	0.0000	0.0000
D	93.750	0.00	180.0	0.0	0.0798	0.1800	0.0000	0.0000
D	80.250	0.00	180.0	0.0	0.0798	0.1800	0.0000	0.0000
D	80.250	0.00	180.0	0.0	0.0824	0.1925	0.0000	0.0000
D	66.750	0.00	180.0	0.0	0.0824	0.1925	0.0000	0.0000
D	66.750	0.00	180.0	0.0	0.0841	0.2050	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0841	0.2050	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0847	0.4258	0.0000	0.0000
D	46.000	0.00	180.0	0.0	0.0847	0.4258	0.0000	0.0000
D	46.000	0.00	180.0	0.0	0.0835	0.2199	0.0000	0.0000
D	11.500	0.00	180.0	0.0	0.0771	0.2412	0.0000	0.0000
D	11.500	0.00	180.0	0.0	0.0769	0.2519	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0769	0.2519	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. AT AZI	LOAD AZI	.....FORCES.....		.....MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	192.500	0.00	0.0	0.0	0.0099	0.0204	0.0000	0.0000
C	189.000	0.00	0.0	0.0	0.0000	2.8305	0.0000	0.0000
C	189.000	0.00	0.0	0.0	1.2815	17.9218	0.0000	0.0000
C	185.000	0.00	0.0	0.0	0.0196	0.0288	0.0000	0.0000
C	175.000	0.00	0.0	0.0	0.0193	0.0288	0.0000	0.0000
C	174.000	0.00	0.0	0.0	0.0000	2.6058	0.0000	0.0000
C	174.000	0.00	0.0	0.0	0.9416	11.8893	0.0000	0.0000
C	165.000	0.00	0.0	0.0	0.0190	0.0288	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.0000	2.3812	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.9205	11.8261	0.0000	0.0000
C	155.000	0.00	0.0	0.0	0.0186	0.0288	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0182	0.0288	0.0000	0.0000

C	144.000	0.00	0.0	0.0	0.0000	2.1565	0.0000	0.0000
C	144.000	0.00	0.0	0.0	0.8980	11.7572	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0179	0.0288	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0174	0.0288	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0170	0.0288	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0166	0.0288	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0161	0.0288	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0156	0.0288	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0150	0.0288	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0144	0.0288	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0137	0.0288	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0129	0.0288	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0120	0.0288	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0108	0.0288	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0093	0.0288	0.0000	0.0000
D	194.000	0.00	180.0	0.0	0.0080	0.1243	0.0000	0.0000
D	178.417	0.00	180.0	0.0	0.0080	0.1243	0.0000	0.0000
D	178.417	0.00	180.0	0.0	0.0089	0.1423	0.0000	0.0000
D	162.833	0.00	180.0	0.0	0.0089	0.1423	0.0000	0.0000
D	162.833	0.00	180.0	0.0	0.0098	0.1601	0.0000	0.0000
D	147.250	0.00	180.0	0.0	0.0098	0.1601	0.0000	0.0000
D	147.250	0.00	180.0	0.0	0.0103	0.3194	0.0000	0.0000
D	142.750	0.00	180.0	0.0	0.0103	0.3194	0.0000	0.0000
D	142.750	0.00	180.0	0.0	0.0106	0.2320	0.0000	0.0000
D	128.333	0.00	180.0	0.0	0.0106	0.2320	0.0000	0.0000
D	128.333	0.00	180.0	0.0	0.0112	0.2531	0.0000	0.0000
D	113.917	0.00	180.0	0.0	0.0112	0.2531	0.0000	0.0000
D	113.917	0.00	180.0	0.0	0.0118	0.2739	0.0000	0.0000
D	99.500	0.00	180.0	0.0	0.0118	0.2739	0.0000	0.0000
D	99.500	0.00	180.0	0.0	0.0122	0.5164	0.0000	0.0000
D	93.750	0.00	180.0	0.0	0.0122	0.5164	0.0000	0.0000
D	93.750	0.00	180.0	0.0	0.0122	0.3311	0.0000	0.0000
D	80.250	0.00	180.0	0.0	0.0122	0.3311	0.0000	0.0000
D	80.250	0.00	180.0	0.0	0.0126	0.3522	0.0000	0.0000
D	66.750	0.00	180.0	0.0	0.0126	0.3522	0.0000	0.0000
D	66.750	0.00	180.0	0.0	0.0128	0.3727	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0128	0.3727	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0128	0.6697	0.0000	0.0000
D	46.000	0.00	180.0	0.0	0.0128	0.6697	0.0000	0.0000
D	46.000	0.00	180.0	0.0	0.0124	0.3970	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0114	0.4345	0.0000	0.0000

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 AZI	LOAD AZI	.....FORCES.....		.....MOMENTS.....	
						HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	192.500	0.00	0.0	0.0	0.0005	0.0087	0.0000	0.0000	
C	189.000	0.00	0.0	0.0	0.1526	2.9299	0.0000	0.0000	
C	189.000	0.00	0.0	0.0	0.3882	7.4532	0.0000	0.0000	
C	185.000	0.00	0.0	0.0	0.0009	0.0174	0.0000	0.0000	
C	175.000	0.00	0.0	0.0	0.0008	0.0174	0.0000	0.0000	
C	174.000	0.00	0.0	0.0	0.1191	2.6974	0.0000	0.0000	
C	174.000	0.00	0.0	0.0	0.2194	4.9688	0.0000	0.0000	
C	168.380	0.00	0.0	0.0	0.1834	4.4372	0.0000	0.0000	
C	165.000	0.00	0.0	0.0	0.0007	0.0174	0.0000	0.0000	
C	159.000	0.00	0.0	0.0	0.0909	2.4649	0.0000	0.0000	
C	159.000	0.00	0.0	0.0	0.1832	4.9688	0.0000	0.0000	
C	155.000	0.00	0.0	0.0	0.0006	0.0174	0.0000	0.0000	
C	145.000	0.00	0.0	0.0	0.0005	0.0174	0.0000	0.0000	
C	144.000	0.00	0.0	0.0	0.0675	2.2323	0.0000	0.0000	
C	144.000	0.00	0.0	0.0	0.1502	4.9688	0.0000	0.0000	
C	135.000	0.00	0.0	0.0	0.0005	0.0174	0.0000	0.0000	
C	125.000	0.00	0.0	0.0	0.0004	0.0174	0.0000	0.0000	
C	120.500	0.00	0.0	0.0	0.2033	9.6003	0.0000	0.0000	
C	115.000	0.00	0.0	0.0	0.0003	0.0174	0.0000	0.0000	
C	105.000	0.00	0.0	0.0	0.0003	0.0174	0.0000	0.0000	
C	95.000	0.00	0.0	0.0	0.0002	0.0174	0.0000	0.0000	
C	85.000	0.00	0.0	0.0	0.0002	0.0174	0.0000	0.0000	
C	75.000	0.00	0.0	0.0	0.0001	0.0174	0.0000	0.0000	
C	72.750	0.00	0.0	0.0	0.1098	14.2300	0.0000	0.0000	
C	65.000	0.00	0.0	0.0	0.0001	0.0174	0.0000	0.0000	
C	55.000	0.00	0.0	0.0	0.0001	0.0174	0.0000	0.0000	
C	45.000	0.00	0.0	0.0	0.0001	0.0174	0.0000	0.0000	
C	35.000	0.00	0.0	0.0	0.0000	0.0174	0.0000	0.0000	
C	26.620	0.00	0.0	0.0	0.0176	17.0468	0.0000	0.0000	
C	25.000	0.00	0.0	0.0	0.0000	0.0174	0.0000	0.0000	
C	15.000	0.00	0.0	0.0	0.0000	0.0174	0.0000	0.0000	
D	194.000	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	

LOADING CONDITION AL

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

LOADS ON POLE

LOAD TYPE	ELEV ft	APPLY. RADIUS ft	LOAD. AZI	AT AZI	LOAD AZI	FORCES		MOMENTS	
						HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	192.500	0.00	0.0	0.0	0.0	0.0005	0.0060	0.0000	0.0000
C	189.000	0.00	0.0	0.0	0.0	0.1526	2.0233	0.0000	0.0000
C	189.000	0.00	0.0	0.0	0.0	0.3882	5.1468	0.0000	0.0000
C	185.000	0.00	0.0	0.0	0.0	0.0009	0.0120	0.0000	0.0000
C	175.000	0.00	0.0	0.0	0.0	0.0008	0.0120	0.0000	0.0000
C	174.000	0.00	0.0	0.0	0.0	0.1191	1.8628	0.0000	0.0000
C	174.000	0.00	0.0	0.0	0.0	0.2194	3.4312	0.0000	0.0000
C	168.380	0.00	0.0	0.0	0.0	0.1834	3.0642	0.0000	0.0000
C	165.000	0.00	0.0	0.0	0.0	0.0007	0.0120	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.0	0.0909	1.7022	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.0	0.1832	3.4312	0.0000	0.0000
C	155.000	0.00	0.0	0.0	0.0	0.0006	0.0120	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0	0.0005	0.0120	0.0000	0.0000
C	144.000	0.00	0.0	0.0	0.0	0.0675	1.5416	0.0000	0.0000
C	144.000	0.00	0.0	0.0	0.0	0.1502	3.4312	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0	0.0005	0.0120	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0	0.0004	0.0120	0.0000	0.0000
C	120.500	0.00	0.0	0.0	0.0	0.2033	6.6296	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0	0.0003	0.0120	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0	0.0003	0.0120	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0	0.0002	0.0120	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0	0.0002	0.0120	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0	0.0001	0.0120	0.0000	0.0000
C	72.750	0.00	0.0	0.0	0.0	0.1098	9.8266	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0	0.0001	0.0120	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0	0.0001	0.0120	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0	0.0001	0.0120	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0	0.0000	0.0120	0.0000	0.0000
C	26.620	0.00	0.0	0.0	0.0	0.0176	11.7717	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0	0.0000	0.0120	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0	0.0000	0.0120	0.0000	0.0000
D	194.000	0.00	180.0	180.0	0.0	0.0000	0.0000	0.0000	0.0000
D	0.000	0.00	180.0	180.0	0.0	0.0000	0.0000	0.0000	0.0000

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195' Monopole / Thompkinsville, KY

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

MAST ELEV ft	DEFLECTIONS (ft)			ROTATIONS (deg)		
	HORIZONTAL ALONG	ACROSS	DOWN	TILT ALONG	ACROSS	TWIST
194.0	19.43L	-0.09E	2.71L	11.11L	-0.04E	0.00W
178.4	16.53L	-0.08E	2.15L	10.96L	-0.04E	0.00W
162.8	13.72L	-0.07E	1.63L	10.32L	-0.04E	0.00E
147.2	11.13L	-0.06E	1.18L	9.25L	-0.04E	0.00E
142.7	10.43L	-0.05E	1.07L	9.00L	-0.04E	0.00E
128.3	8.33L	-0.04E	0.76L	8.04L	-0.04E	0.00E
113.9	6.47L	-0.03E	0.51L	6.99L	-0.03E	0.00E
99.5	4.86L	-0.03E	0.33L	5.91L	-0.03E	0.00E
93.7	4.30L	-0.02E	0.27L	5.54L	-0.03E	0.00E
80.2	3.11L	-0.02E	0.17L	4.64L	-0.02E	0.00E
66.7	2.12L	-0.01E	0.09L	3.78L	-0.02E	0.00E

53.2	1.33L	-0.01E	0.05L	2.96L	-0.02E	0.00E
46.0	0.98L	-0.01E	0.03L	2.54L	-0.01E	0.00E
34.5	0.54L	0.00E	0.01L	1.85L	-0.01E	0.00E
23.0	0.24L	0.00E	0.00L	1.20L	-0.01E	0.00E
11.5	0.06L	0.00E	0.00L	0.59L	0.00E	0.00E
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
194.0	-0.01 O	0.00 D	0.00 E	-0.02 D	-0.01 E	0.00 E
178.4	22.74 AJ	9.98 O	0.00 E	-120.81 L	-0.05 K	-0.04 K
162.8	39.51 Z	17.64 O	0.00 Q	-398.25 K	-0.13 K	-0.13 K
147.2	56.24 Z	25.20 R	-0.01 C	-815.06 L	0.23 W	-0.28 K
142.7	71.62 AB	32.18 H	-0.09 U	-956.00 L	-0.23 C	-0.36 K
128.3	74.99 AJ	33.13 B	0.27 B	-1494.75 L	-3.53 B	0.55 O
113.9	82.67 AJ	35.38 L	0.25 B	-2610.86 L	-10.64 B	-1.09 E
99.5	85.67 AJ	35.88 I	0.23 B	-2839.01 L	-12.08 B	-1.19 E
93.7	90.17 AJ	36.93 L	-0.27 E	-3383.51 L	-15.55 B	-1.48 E
80.2	94.95 AJ	38.10 L	-0.34 E	-3938.29 L	19.38 E	-1.79 E
66.7	100.04 AJ	39.28 L	-0.34 E	-4502.33 L	23.99 E	-2.04 E
53.2	104.89 AJ	39.84 L	-0.31 E	-4808.76 L	26.24 E	-2.14 E
46.0	109.57 AJ	40.83 L	-0.30 E	-5299.55 L	29.66 E	-2.26 E
34.5	114.33 AJ	41.79 L	-0.28 E	-5794.58 L	32.91 E	-2.33 E
23.0	119.19 AJ	42.69 L	-0.28 E	-6292.63 L	36.11 E	-2.38 E
11.5	124.13 AJ	43.58 L	-0.28 E	-6792.94 L	39.35 E	-2.39 E
base reaction	124.13 AJ	-43.58 L	0.28 E	6792.94 L	-39.35 E	2.39 E

COMPLIANCE WITH 4.8.2 & 4.5.4

ELEV	AXIAL	BENDING SHEAR +	TOTAL SATISFIED	D/t(w/t)	MAX
------	-------	-----------------	-----------------	----------	-----



ft	TORSIONAL					ALLOWED	
194.00	0.000	0.00D	0.00K	0.00E	YES	13.22A	45.2
178.42	0.02AJ	0.18L	0.010	0.19L	YES	15.64A	45.2
	0.02Z	0.18L	0.010	0.19L	YES	15.64A	45.2
162.83	0.03Z	0.46K	0.020	0.47K	YES	18.05A	45.2
	0.03Z	0.46K	0.020	0.47K	YES	18.05A	45.2
147.25	0.03Z	0.77L	0.030	0.79L	YES	20.46A	45.2
	0.02AB	0.49L	0.02H	0.50L	YES	13.52A	45.2
142.75	0.03AB	0.54L	0.02H	0.55L	YES	13.99A	45.2
	0.03AJ	0.55L	0.02B	0.57L	YES	13.75A	45.2
128.33	0.02AJ	0.71L	0.02B	0.72L	YES	15.24A	45.2
	0.02AJ	0.71L	0.02L	0.72L	YES	15.24A	45.2
113.92	0.02AJ	0.82L	0.02L	0.84L	YES	16.73A	45.2
	0.02AJ	0.82L	0.02L	0.84L	YES	16.73A	45.2
99.50	0.02AJ	0.91L	0.02L	0.92L	YES	18.22A	45.2
	0.02AJ	0.76L	0.02I	0.77L	YES	15.56A	45.2
93.75	0.02AJ	0.78L	0.02I	0.79L	YES	16.07A	45.2
	0.02AJ	0.81L	0.02L	0.82L	YES	15.77A	45.2
80.25	0.02AJ	0.84L	0.02L	0.86L	YES	16.97A	45.2
	0.02AJ	0.84L	0.02L	0.86L	YES	16.97A	45.2
66.75	0.02AJ	0.88L	0.02L	0.89L	YES	18.16A	45.2
	0.02AJ	0.88L	0.02L	0.89L	YES	18.16A	45.2
53.25	0.02AJ	0.90L	0.02L	0.91L	YES	19.35A	45.2
	0.02AJ	0.90L	0.02W	0.91L	YES	19.35A	45.2
46.00	0.02AJ	0.91L	0.02W	0.93L	YES	20.00A	45.2
	0.02AJ	0.94L	0.02L	0.95L	YES	19.64A	45.2
34.50	0.02AJ	0.95L	0.02L	0.97L	YES	20.66A	45.2
	0.02AJ	0.95L	0.02L	0.97L	YES	20.66A	45.2
23.00	0.02AJ	0.97L	0.02L	0.98L	YES	21.68A	45.2
	0.02AJ	0.97L	0.02W	0.98L	YES	21.68A	45.2
11.50	0.02AJ	0.97L	0.02W	0.99L	YES	22.69A	45.2
	0.02AJ	0.97L	0.02W	0.99L	YES	22.69A	45.2
0.00	0.02AJ	0.98L	0.02W	0.99L	YES	23.71A	45.2

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	
124.13	43.58	-0.28	-6792.94	39.35	-2.39
AJ	L	E	L	E	E

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195' Monopole / Thompkinsville, KY

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

\* Only 1 condition(s) shown in full  
 \* 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. AT AZI	LOAD AZI	.....FORCES.....		.....MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	192.500	0.00	0.0	0.0	0.0044	0.0070	0.0000	0.0000
C	189.000	0.00	0.0	0.0	0.0000	2.3587	0.0000	0.0000
C	189.000	0.00	0.0	0.0	2.6748	6.0000	0.0000	0.0000
C	185.000	0.00	0.0	0.0	0.0087	0.0140	0.0000	0.0000
C	175.000	0.00	0.0	0.0	0.0086	0.0140	0.0000	0.0000
C	174.000	0.00	0.0	0.0	0.0000	2.1715	0.0000	0.0000
C	174.000	0.00	0.0	0.0	1.9717	4.0000	0.0000	0.0000
C	165.000	0.00	0.0	0.0	0.0085	0.0140	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.0000	1.9843	0.0000	0.0000
C	159.000	0.00	0.0	0.0	1.9349	4.0000	0.0000	0.0000
C	155.000	0.00	0.0	0.0	0.0084	0.0140	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0083	0.0140	0.0000	0.0000
C	144.000	0.00	0.0	0.0	0.0000	1.7971	0.0000	0.0000
C	144.000	0.00	0.0	0.0	1.8952	4.0000	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0082	0.0140	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0080	0.0140	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0079	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	0.0076	0.0140	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0074	0.0140	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0072	0.0140	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0070	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	0.0065	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	0.0057	0.0140	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0052	0.0140	0.0000	0.0000
D	194.000	0.00	180.0	0.0	0.0142	0.0594	0.0000	0.0000
D	147.250	0.00	180.0	0.0	0.0179	0.0777	0.0000	0.0000
D	147.250	0.00	180.0	0.0	0.0190	0.2069	0.0000	0.0000
D	142.750	0.00	180.0	0.0	0.0190	0.2069	0.0000	0.0000
D	142.750	0.00	180.0	0.0	0.0197	0.1316	0.0000	0.0000
D	128.333	0.00	180.0	0.0	0.0197	0.1316	0.0000	0.0000
D	128.333	0.00	180.0	0.0	0.0210	0.1443	0.0000	0.0000
D	113.917	0.00	180.0	0.0	0.0210	0.1443	0.0000	0.0000
D	113.917	0.00	180.0	0.0	0.0223	0.1570	0.0000	0.0000
D	99.500	0.00	180.0	0.0	0.0223	0.1570	0.0000	0.0000
D	99.500	0.00	180.0	0.0	0.0231	0.3560	0.0000	0.0000
D	93.750	0.00	180.0	0.0	0.0231	0.3560	0.0000	0.0000
D	93.750	0.00	180.0	0.0	0.0233	0.2000	0.0000	0.0000
D	80.250	0.00	180.0	0.0	0.0233	0.2000	0.0000	0.0000
D	80.250	0.00	180.0	0.0	0.0241	0.2139	0.0000	0.0000
D	66.750	0.00	180.0	0.0	0.0241	0.2139	0.0000	0.0000
D	66.750	0.00	180.0	0.0	0.0246	0.2278	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0246	0.2278	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0247	0.4731	0.0000	0.0000
D	46.000	0.00	180.0	0.0	0.0247	0.4731	0.0000	0.0000
D	46.000	0.00	180.0	0.0	0.0244	0.2444	0.0000	0.0000
D	11.500	0.00	180.0	0.0	0.0225	0.2680	0.0000	0.0000
D	11.500	0.00	180.0	0.0	0.0225	0.2799	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0225	0.2799	0.0000	0.0000

=====

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

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MAST ELEV ft	.....DEFLECTIONS (ft).....			.....ROTATIONS (deg).....		
	..... ALONG	..... ACROSS	..... DOWN	..... TILT ALONG	..... ACROSS	..... TWIST
194.0	5.79E	-0.01H	0.24E	3.26E	-0.01H	0.00B
178.4	4.91E	-0.01H	0.19E	3.21E	-0.01H	0.00B
162.8	4.06E	-0.01H	0.14E	3.02E	-0.01H	0.00B
147.2	3.28E	-0.01H	0.10E	2.71E	-0.01H	0.00B

142.7	3.07E	-0.01H	0.10E	2.63E	-0.01H	0.00B
128.3	2.44E	-0.01H	0.07E	2.35E	-0.01H	0.00B
113.9	1.89E	-0.01H	0.05E	2.04E	-0.01H	0.00B
99.5	1.42E	0.00H	0.03E	1.72E	-0.01H	0.00E
93.7	1.25E	0.00H	0.03E	1.61E	0.00H	0.00E
80.2	0.91E	0.00H	0.02E	1.35E	0.00H	0.00E
66.7	0.62E	0.00H	0.01E	1.10E	0.00H	0.00E
53.2	0.39E	0.00H	0.01E	0.86E	0.00H	0.00E
46.0	0.29E	0.00H	0.00E	0.74E	0.00H	0.00E
34.5	0.16E	0.00H	0.00E	0.54E	0.00H	0.00E
23.0	0.07E	0.00H	0.00E	0.35E	0.00H	0.00E
11.5	0.02E	0.00H	0.00A	0.17E	0.00H	0.00E
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
194.0	0.00 H	0.00 K	0.00 C	0.00 I	0.00 I	0.00 C
178.4	9.35 D	2.92 K	0.00 C	-35.52 E	0.01 B	0.00 B
162.8	16.62 C	5.16 A	0.00 I	-117.00 E	-0.03 I	0.01 B
147.2	23.78 C	7.37 K	0.00 I	-238.88 D	-0.06 I	0.02 B
142.7	30.52 A	9.44 A	-0.03 F	-280.06 D	-0.11 I	0.03 B
128.3	32.44 A	9.69 I	-0.03 H	-436.75 E	0.49 H	0.05 B
113.9	34.55 A	10.02 E	0.04 E	-597.05 E	1.00 H	0.06 B
99.5	36.83 A	10.34 C	0.04 E	-760.51 E	-1.60 E	0.07 B
93.7	38.89 A	10.48 C	0.04 E	-826.54 E	-1.84 E	0.08 B
80.2	41.60 A	10.81 E	-0.06 H	-984.30 E	2.53 H	0.09 E
66.7	44.50 A	11.13 E	-0.06 H	-1144.60 E	3.29 H	0.10 E
53.2	47.61 A	11.47 E	-0.05 H	-1307.70 E	4.02 H	0.11 E
46.0	51.04 A	11.66 E	-0.05 H	-1396.56 E	4.38 H	0.11 E
34.5	53.92 A	11.95 E	0.05 E	-1538.94 E	4.91 H	0.12 E
23.0	56.88 A	12.22 E	-0.05 H	-1682.82 E	5.48 H	0.12 E
	59.93 A	12.49 E	-0.05 H	-1827.91 E	6.06 H	0.12 E

11.5	59.93 A	12.49 E	-0.05 H	-1827.91 E	6.06 H	0.12 E
	63.15 A	12.75 E	-0.05 H	-1974.07 E	6.64 H	0.12 E
base reaction	63.15 A	-12.75 E	0.05 H	1974.07 E	-6.64 H	-0.12 E

COMPLIANCE WITH 4.8.2 & 4.5.4

ELEV ft	AXIAL	BENDING	SHEAR + TORSIONAL	TOTAL	SATISFIED	D/t(w/t)	MAX ALLOWED
194.00	0.00H	0.00I	0.00I	0.00I	YES	13.22A	45.2
178.42	0.01D	0.05E	0.00K	0.06E	YES	15.64A	45.2
162.83	0.01C	0.14E	0.01A	0.15E	YES	18.05A	45.2
147.25	0.01C	0.23D	0.01K	0.24D	YES	20.46A	45.2
142.75	0.01A	0.16D	0.01A	0.17D	YES	13.99A	45.2
128.33	0.01A	0.21E	0.01I	0.22E	YES	15.24A	45.2
113.92	0.01A	0.24E	0.01E	0.25E	YES	16.73A	45.2
99.50	0.01A	0.27E	0.01E	0.28E	YES	18.22A	45.2
93.75	0.01A	0.23E	0.00C	0.24E	YES	16.07A	45.2
80.25	0.01A	0.25E	0.00E	0.26E	YES	16.97A	45.2
66.75	0.01A	0.25E	0.00E	0.26E	YES	18.16A	45.2
53.25	0.01A	0.26E	0.00E	0.27E	YES	19.35A	45.2
46.00	0.01A	0.27E	0.00E	0.28E	YES	20.00A	45.2
34.50	0.01A	0.28E	0.00E	0.29E	YES	20.66A	45.2
23.00	0.01A	0.28E	0.00E	0.29E	YES	21.68A	45.2
11.50	0.01A	0.28E	0.00E	0.29E	YES	22.69A	45.2
0.00	0.01A	0.29E	0.00E	0.30E	YES	23.71A	45.2

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

DOWN 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
63.15 A	12.75 E	-0.05 H	-1974.07 E	6.64 H	0.12 E

=====

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

Parameters	Description	h <sub>i</sub> (ft.)	W <sub>i</sub> (kips)	W <sub>j</sub> (kips)	Vertical Distribution of Seismic Forces		1.2 D + 1.0 E <sub>v</sub>	0.9 D - 1.0 E <sub>v</sub>		
					W <sub>i</sub> <sup>h</sup>	F <sub>v</sub> or E <sub>v</sub> (kips)			E <sub>v</sub> (kips)	(kips)
Risk Category	II									
R	1.500	Step Bolts/Safety Climb Load	192.50	0.0070	0.0000	259.3938	0.0005	0.0003	0.0087	0.0060
S <sub>s</sub>	0.198	Antenna Load	189.00	6.0000	6.0000	214.326,0000	0.3882	0.2532	7.4532	5.1468
S <sub>i</sub>	0.108	Line Deadload	189.00	2.3587	0.0000	84.295,1227	0.1526	0.0995	2.9299	2.0233
Site Class	D (default)	Step Bolts/Safety Climb Load	185.00	0.0140	0.0000	479.1500	0.0009	0.0006	0.0174	0.0120
T <sub>l</sub> (sec)	12.000	Antenna Load	175.00	0.0140	0.0000	428.7500	0.0008	0.0006	0.0174	0.0120
F <sub>e</sub>	1.600	Line Deadload	174.00	4.0000	4.0000	121.104,0000	0.2194	0.1688	4.9688	3.4312
F <sub>v</sub>	2.384	Structure - Section 1	174.00	2.1715	0.0000	65.744,3340	0.1191	0.0916	2.6974	1.8628
S <sub>ms</sub>	0.317	Step Bolts/Safety Climb Load	168.38	3.5721	0.0000	101.275,5519	0.1834	0.1507	4.4372	3.0642
S <sub>mi</sub>	0.257	Antenna Load	165.00	0.0140	0.0000	381.1500	0.0007	0.0006	0.0174	0.0120
S <sub>os</sub>	0.211	Line Deadload	159.00	4.0000	4.0000	101.124,0000	0.1832	0.1688	4.9688	3.4312
S <sub>o1</sub>	0.172	Step Bolts/Safety Climb Load	155.00	0.0140	0.0000	336.3500	0.0006	0.0006	0.0174	0.0120
T <sub>e</sub>	0.815	Antenna Load	145.00	0.0140	0.0000	294.3500	0.0005	0.0006	0.0174	0.0120
I <sub>a</sub>	1.000	Line Deadload	144.00	4.0000	4.0000	82.944,0000	0.1502	0.1688	4.9688	3.4312
Ω	1.500	Step Bolts/Safety Climb Load	144.00	1.7971	0.0000	37.264,6656	0.0675	0.0758	2.2323	1.5416
C <sub>s</sub>	0.030	Step Bolts/Safety Climb Load	135.00	0.0140	0.0000	255.1500	0.0005	0.0006	0.0174	0.0120
E (kSI)	29,000	Structure - Section 2	125.00	0.0140	0.0000	218.7500	0.0004	0.0006	0.0174	0.0120
h <sub>top</sub> (in <sup>4</sup> )	835	Step Bolts/Safety Climb Load	120.50	7.7285	0.0000	112.219,7521	0.2033	0.3261	9.6003	6.6296
h <sub>bot</sub> (in <sup>4</sup> )	38,985	Step Bolts/Safety Climb Load	115.00	0.0140	0.0000	185.1500	0.0003	0.0006	0.0174	0.0120
g (in/s <sup>2</sup> )	19,910	Step Bolts/Safety Climb Load	105.00	0.0140	0.0000	154.3500	0.0003	0.0006	0.0174	0.0120
W <sub>i</sub> (kips)	63,050	Step Bolts/Safety Climb Load	95.00	0.0140	0.0000	126.3500	0.0002	0.0006	0.0174	0.0120
W <sub>j</sub> (kips)	18,000	Step Bolts/Safety Climb Load	85.00	0.0140	0.0000	101.1500	0.0002	0.0006	0.0174	0.0120
W <sub>L</sub> (kips)	45,050	Structure - Section 3	75.00	0.0140	0.0000	78.7500	0.0001	0.0006	0.0174	0.0120
L <sub>p</sub> (in)	2328	Step Bolts/Safety Climb Load	72.75	11.4555	0.0000	60.828,9497	0.1098	0.4834	14.2300	9.8266
f <sub>1</sub> (Hertz)	0.217	Step Bolts/Safety Climb Load	65.00	0.0140	0.0000	59.1500	0.0001	0.0006	0.0174	0.0120
T (sec)	4.616	Step Bolts/Safety Climb Load	55.00	0.0140	0.0000	42.3500	0.0001	0.0006	0.0174	0.0120
V <sub>a</sub> (kips)	1,891	Structure - Section 4	45.00	0.0140	0.0000	28.3500	0.0001	0.0006	0.0174	0.0120
Seismic Design Category	C	Step Bolts/Safety Climb Load	35.00	0.0140	0.0000	17.1500	0.0000	0.0006	0.0174	0.0120
		Step Bolts/Safety Climb Load	26.62	13.7231	0.0000	9.724,5235	0.0176	0.5791	17.0468	11.7717
		Step Bolts/Safety Climb Load	25.00	0.0140	0.0000	8.7500	0.0000	0.0006	0.0174	0.0120
		Step Bolts/Safety Climb Load	15.00	0.0140	0.0000	3.1500	0.0000	0.0006	0.0174	0.0120
			Σ	63.05	18.0000	1,044,233.68	1.89	2.66	78.32	54.08

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

### Pole Data

Diameter: 60.960 in (flat to flat)  
Thickness: 0.4375 in  
Yield (Fy): 65 ksi  
# of Sides: 18 "0" IF Round  
Strength (Fu): 80 ksi

### Reactions

Moment, Mu: 6792.94 ft-kips  
Axial, Pu: 75.71 kips  
Shear, Vu: 43.58 kips

### Anchor Rod Data

Quantity: 22  
Diameter: 2.25 in  
Rod Material: A615  
Strength (Fu): 100 ksi  
Yield (Fy): 75 ksi  
BC Diam. (in): 68 BC Override:

### Anchor Rod Results

(per 4.9.9)

Maximum Put: 215.37 Kips  
 $\Phi_t^*R_{nt}$ : 243.75 Kips  
Vu: 1.98 Kips  
 $\Phi_v^*R_{nv}$ : 149.10 Kips  
Tension Interaction Ratio: 0.78  
Maximum Puc: 221.40 Kips  
 $\Phi_c^*R_{nc}$ : 268.39 Kips  
Vu: 1.98 Kips  
 $\Phi_c^*R_{nvc}$ : 120.77 Kips  
Compression Interaction Ratio: 0.83  
Maximum Interaction Ratio: **82.5% Pass**

### Plate Data

Diameter (in): 73.75 Dia. Override:  
Thickness: 2.25 in  
Yield (Fy): 50 ksi  
Eff Width/Rod: 8.79 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

### Base Plate Results

Base Plate (Mu/Z): 44.3 ksi  
Allowable  $\Phi^*F_y$ : 45.0 ksi (per AISC)  
Base Plate Interaction Ratio: **98.5% Pass**

**MAT FOUNDATION DESIGN BY SABRE INDUSTRIES**

195' Monopole SOUTHERN TOWERS Thompkinsville, KY (503060) 04/20/22 DJH

**Overall Loads:**

Factored Moment (ft-kips)	6792.94
Factored Axial (kips)	75.71
Factored Shear (kips)	43.58
Bearing Design Strength (ksf)	3.75
Water Table Below Grade (ft)	35
Width of Mat (ft)	29
Thickness of Mat (ft)	2
Depth to Bottom of Slab (ft)	6
Quantity of Bolts in Bolt Circle	22
Bolt Circle Diameter (in)	68
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)	4
Quantity of Bars in Mat	42
Bar Diameter in Mat (in)	1.27
Area of Bars in Mat (in <sup>2</sup> )	53.20
Spacing of Bars in Mat (in)	8.31
Quantity of Bars Pier	54
Bar Diameter in Pier (in)	1.27
Tie Bar Diameter in Pier (in)	0.625
Spacing of Ties (in)	4
Area of Bars in Pier (in <sup>2</sup> )	68.41
Spacing of Bars in Pier (in)	5.09
f <sub>c</sub> (ksi)	4.5
f <sub>y</sub> (ksi)	60
Unit Wt. of Soil (kcf)	0.115
Unit Wt. of Concrete (kcf)	0.15

Max. Net Bearing Press. (ksf)	3.31
Allowable Bearing Pressure (ksf)	2.50
Safety Factor	2.00
Ultimate Bearing Pressure (ksf)	5.00
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 <sub>s</sub> (in <sup>2</sup> )	36.19
Recommended Spacing (in)	5 to 12

Volume of Concrete (yd<sup>3</sup>) 70.67

**Two-Way Shear Action:**

Average d (in)	19.73
φv <sub>c</sub> (ksi)	0.195
φv <sub>c</sub> = φ(2 + 4/β <sub>c</sub> )f <sub>c</sub> <sup>1/2</sup>	0.302
φv <sub>c</sub> = φ(α <sub>s</sub> d/b <sub>o</sub> +2)f <sub>c</sub> <sup>1/2</sup>	0.195
φv <sub>c</sub> = φ4f <sub>c</sub> <sup>1/2</sup>	0.201
Shear perimeter, b <sub>o</sub> (in)	419.23
β <sub>c</sub>	1

v <sub>u</sub> (ksi)	0.124
J (in <sup>3</sup> )	1.528E+07
c + d (in)	104.81
0.40M <sub>sc</sub> (ft-kips)	2795.6

**One-Way Shear:**

φV <sub>c</sub> (kips)	690.9
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V <sub>u</sub> (kips)	433.7
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**Stability:**

Overturing Design Strength (ft-k)	9305.4
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Total Applied M (ft-k)	7076.2
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**Pier-Slab Transfer by Flexure:**

$b_{slab}$ (ft)	14.00		
$\phi M_n$ (ft-kips)	<span style="border: 1px solid black; padding: 2px;">4283.7</span>	$0.60M_{sc}$ (ft-kips)	<span style="border: 1px solid black; padding: 2px;">4193.4</span>

**Pier Design:**

$\phi V_n$ (kips)	<span style="border: 1px solid black; padding: 2px;">1275.9</span>	$V_u$ (kips)	<span style="border: 1px solid black; padding: 2px;">43.6</span>
$\phi V_c = \phi 2(1 + N_u / (2000A_g)) f'_c{}^{1/2} b_w d$	745.8		
$V_s$ (kips)	<span style="border: 1px solid black; padding: 2px;">706.9</span>	$*** V_s \max = 4 f'_c{}^{1/2} b_w d$ (kips)	<span style="border: 1px solid black; padding: 2px;">1978.3</span>
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	15.90
		Req'd Hook Development $l_{dc}$ (in) - Compression	17.15

**Flexure in Slab:**

$\phi M_n$ (ft-kips)	<span style="border: 1px solid black; padding: 2px;">4436.7</span>	$M_u$ (ft-kips)	<span style="border: 1px solid black; padding: 2px;">3216.1</span>
$a$ (in)	2.40		
Steel Ratio	0.00775		
$\beta_1$	0.825		
Maximum Steel Ratio ( $\rho_s$ )	0.0197		
Minimum Steel Ratio	0.0018		
Rebar Development in Pad (in)	<span style="border: 1px solid black; padding: 2px;">123.00</span>	Required Development in Pad (in)	<span style="border: 1px solid black; padding: 2px;">34.08</span>

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

=====  
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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=====  
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-----  
Files Used for Analysis  
-----

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

Name of input data file:  
503060.lp11d

Name of output report file:  
503060.lp11o

Name of plot output file:  
503060.lp11p

Name of runtime message file:  
503060.lp11r

-----  
Date and Time of Analysis  
-----

Date: April 20, 2022

Time: 11:54:12

-----  
Problem Title  
-----

Site : Thompkinsville, KY

Tower : 195' Monopole

Prepared for : SOUTHERN TOWERS

Job Number : 503060

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 = 38.500 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	38.500	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 = 38.500000 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 = 25.500000 ft  
Effective unit weight at top of layer = 115.000000 pcf  
Effective unit weight at bottom of layer = 115.000000 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 = 25.500000 ft  
 Distance from top of pile to bottom of layer = 35.500000 ft  
 Effective unit weight at top of layer = 115.000000 pcf  
 Effective unit weight at bottom of layer = 115.000000 pcf  
 Undrained cohesion at top of layer = 1000.000000 psf  
 Undrained cohesion at bottom of layer = 1000.000000 psf  
 Epsilon-50 at top of layer = 0.009000  
 Epsilon-50 at bottom of layer = 0.009000

Layer 4 is stiff clay without free water

Distance from top of pile to top of layer = 35.500000 ft  
 Distance from top of pile to bottom of layer = 51.500000 ft  
 Effective unit weight at top of layer = 52.600000 pcf  
 Effective unit weight at bottom of layer = 52.600000 pcf  
 Undrained cohesion at top of layer = 1000.000000 psf  
 Undrained cohesion at bottom of layer = 1000.000000 psf  
 Epsilon-50 at top of layer = 0.009000  
 Epsilon-50 at bottom of layer = 0.009000

(Depth of the lowest soil layer extends 13.000 ft below the pile tip)

-----  
 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	0.5000	110.0000	14.4000	0.10000
	Clay	3.5000	110.0000	14.4000	0.10000
2	Stiff Clay	3.5000	115.0000	1250.	0.00800
	w/o Free Water	25.5000	115.0000	1250.	0.00800
3	Stiff Clay	25.5000	115.0000	1000.0000	0.00900
	w/o Free Water	35.5000	115.0000	1000.0000	0.00900
4	Stiff Clay	35.5000	52.6000	1000.0000	0.00900
	w/o Free Water	51.5000	52.6000	1000.0000	0.00900

-----  
 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 = 58107. lbs	M = 108687040. in-lbs	100947.	No	Yes
2	1	V = 12750. lbs	M = 23688840. in-lbs	63150.	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 = 38.500000 ft  
 Shaft Diameter = 96.000000 in  
 Concrete Cover Thickness (to edge of long. rebar) = 3.625000 in  
 Number of Reinforcing Bars = 54 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 = 68.405510 sq. in.  
 Area Ratio of Steel Reinforcement = 0.95 percent  
 Edge-to-Edge Bar Spacing = 3.816510 in  
 Maximum Concrete Aggregate Size = 0.750000 in  
 Ratio of Bar Spacing to Aggregate Size = 5.09  
 Offset of Center of Rebar Cage from Center of Pile = 0.0000 in

-----  
 Axial Structural Capacities:  
 -----

Nom. Axial Structural Capacity =  $0.85 F_c A_c + F_y A_s$  = 31528.907 kips  
 Tensile Load for Cracking of Concrete = -3385.459 kips  
 Nominal Axial Tensile Capacity = -4104.331 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	43.444246	5.077904
3	1.270000	1.266769	42.560983	10.087138
4	1.270000	1.266769	41.102155	14.959961
5	1.270000	1.266769	39.087492	19.630476
6	1.270000	1.266769	36.544237	24.035523
7	1.270000	1.266769	33.506784	28.115530
8	1.270000	1.266769	30.016209	31.815323
9	1.270000	1.266769	26.119717	35.084868
10	1.270000	1.266769	21.870000	37.879951
11	1.270000	1.266769	17.324529	40.162773
12	1.270000	1.266769	12.544773	41.902461
13	1.270000	1.266769	7.595371	43.075491
14	1.270000	1.266769	2.543255	43.665999
15	1.270000	1.266769	-2.543255	43.665999
16	1.270000	1.266769	-7.595371	43.075491
17	1.270000	1.266769	-12.544773	41.902461
18	1.270000	1.266769	-17.324529	40.162773
19	1.270000	1.266769	-21.870000	37.879951
20	1.270000	1.266769	-26.119717	35.084868
21	1.270000	1.266769	-30.016209	31.815323
22	1.270000	1.266769	-33.506784	28.115530
23	1.270000	1.266769	-36.544237	24.035523
24	1.270000	1.266769	-39.087492	19.630476
25	1.270000	1.266769	-41.102155	14.959961
26	1.270000	1.266769	-42.560983	10.087138
27	1.270000	1.266769	-43.444246	5.077904
28	1.270000	1.266769	-43.740000	0.00000
29	1.270000	1.266769	-43.444246	-5.077904
30	1.270000	1.266769	-42.560983	-10.087138
31	1.270000	1.266769	-41.102155	-14.959961
32	1.270000	1.266769	-39.087492	-19.630476
33	1.270000	1.266769	-36.544237	-24.035523
34	1.270000	1.266769	-33.506784	-28.115530
35	1.270000	1.266769	-30.016209	-31.815323
36	1.270000	1.266769	-26.119717	-35.084868
37	1.270000	1.266769	-21.870000	-37.879951
38	1.270000	1.266769	-17.324529	-40.162773
39	1.270000	1.266769	-12.544773	-41.902461
40	1.270000	1.266769	-7.595371	-43.075491
41	1.270000	1.266769	-2.543255	-43.665999
42	1.270000	1.266769	2.543255	-43.665999
43	1.270000	1.266769	7.595371	-43.075491
44	1.270000	1.266769	12.544773	-41.902461
45	1.270000	1.266769	17.324529	-40.162773
46	1.270000	1.266769	21.870000	-37.879951
47	1.270000	1.266769	26.119717	-35.084868
48	1.270000	1.266769	30.016209	-31.815323
49	1.270000	1.266769	33.506784	-28.115530
50	1.270000	1.266769	36.544237	-24.035523
51	1.270000	1.266769	39.087492	-19.630476
52	1.270000	1.266769	41.102155	-14.959961
53	1.270000	1.266769	42.560983	-10.087138
54	1.270000	1.266769	43.444246	-5.077904

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

Minimum spacing between any two bars not equal to zero = 3.817 inches  
 between bars 50 and 51.

Ratio of bar spacing to maximum aggregate size = 5.09

-----  
 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	63.150
2	100.947

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	63.150	165907.125	0.00300000
2	100.947	167200.152	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 <sup>2</sup>
1	0.65	63.150000	165907.	41.047500	107840.	3.8485E+09
2	0.65	100.946667	167200.	65.615333	108680.	3.8815E+09
1	0.75	63.150000	165907.	47.362500	124430.	3.7121E+09
2	0.75	100.946667	167200.	75.710000	125400.	3.7452E+09
1	0.90	63.150000	165907.	56.835000	149316.	2.4625E+09
2	0.90	100.946667	167200.	90.852000	150480.	2.4871E+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.	1033988.
3	25.5000	24.9116	Yes	No	1037006.	662954.
4	35.5000	34.9054	Yes	No	1699961.	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	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	58107.	M, in-lb	1.09E+08	100947.	16.4019	-0.05996	-543044.	1.12E+08

2 v, lb 12750. M, in-lb 2.37E+07 63150. 0.06430 -3.89E-04 -111673. 2.44E+07

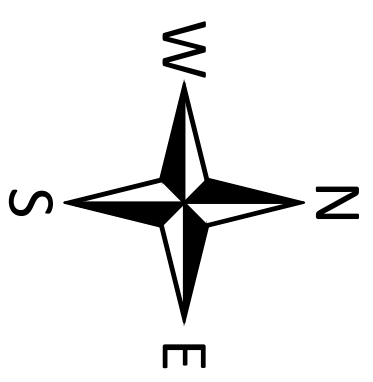
Maximum pile-head deflection = 16.4019050086 inches  
Maximum pile-head rotation = -0.0599572240 radians = -3.435296 deg.

The analysis ended normally.

**IBC 1807.3.2.1**

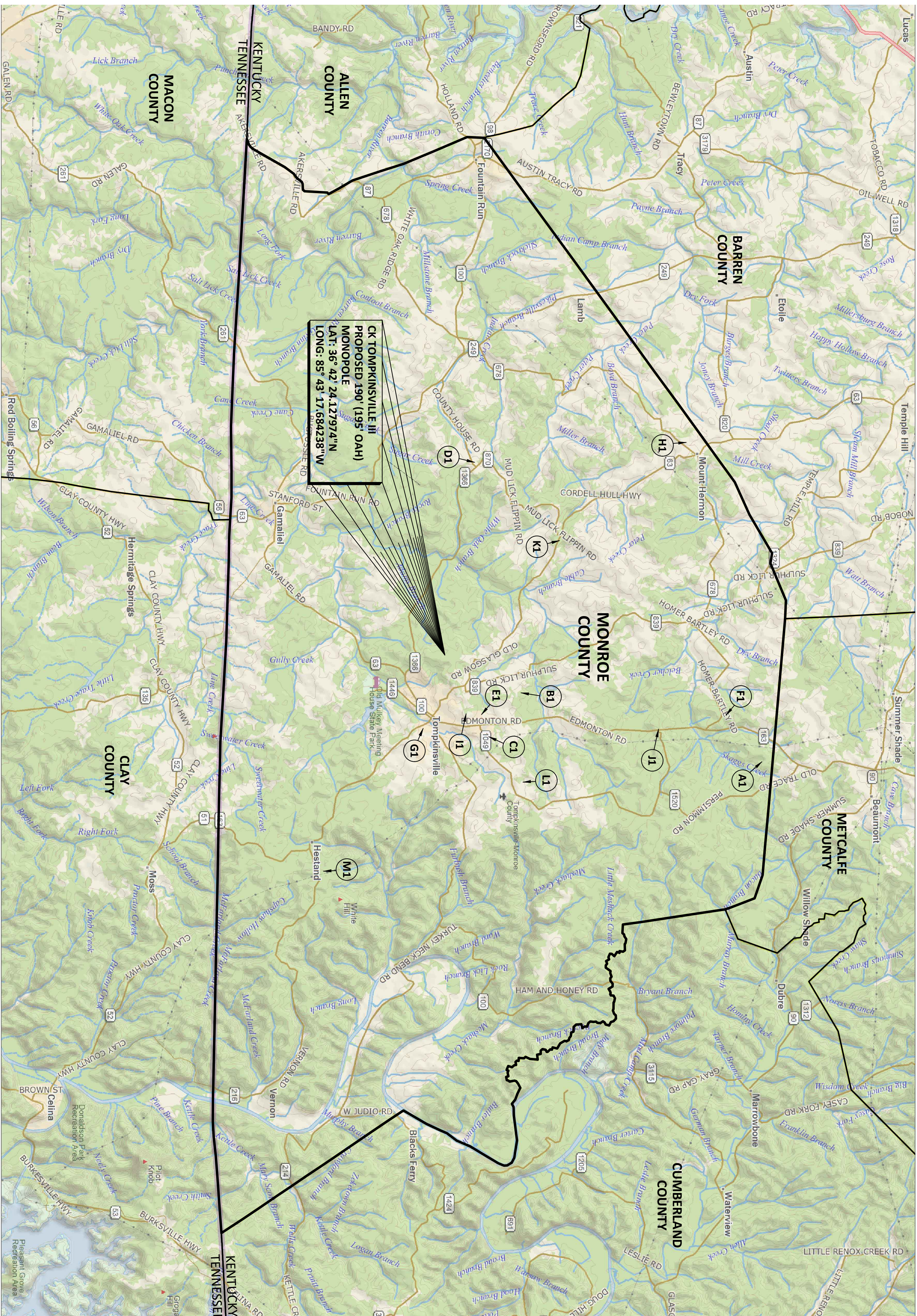
Moment (ft-k)	6,792.94	
Shear (k)	43.58	
Caisson diameter (ft)	8	
Caisson height above ground (ft)	0.5	
Caisson height below ground (ft)	31	
Lateral soil pressure (lb/ft <sup>2</sup> )	270.97	
Ground to application of force, h (ft)	156.37	
Applied lateral force, P (lb)	43,580	
Lateral soil bearing pressure, S <sub>1</sub> (lb/ft)	2,800.00	
Diameter, b (ft)	8	
A	4.55	$= (2.34P)/(S, b)$
Minimum depth of embedment, d (ft)	30.23	$= 0.5A[ 1 + ( 1 + ( 4.36h / A ) )^{1/2} ]$





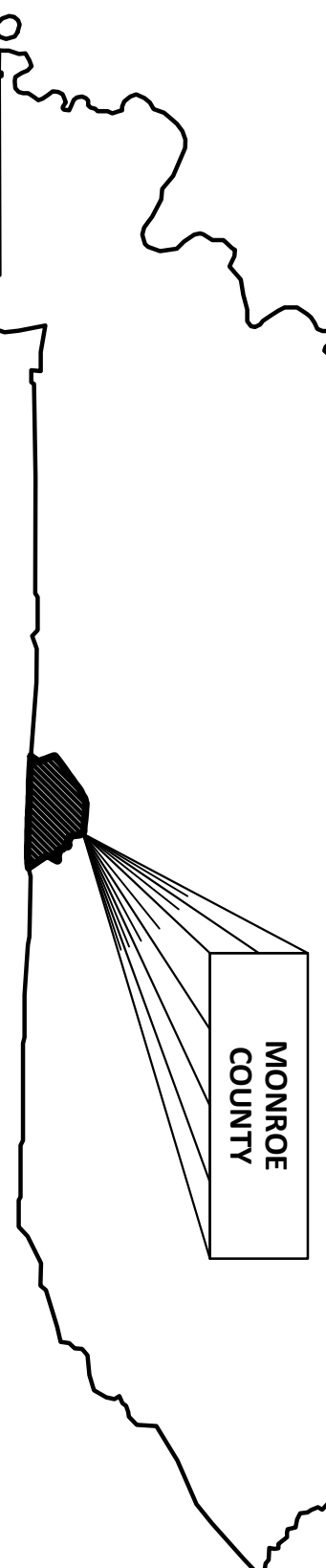
# MONROE COUNTY, KENTUCKY

## VERIZON WIRELESS SITE NAME: CK TOMPKINSVILLE III



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

USGS 7.5 MINUTE QUADRANGLE: TOMPKINSVILLE, KY



### EXISTING TOWER LEGEND

<b>A1</b>	FCC REGISTRATION #: 1041300 TEXAS EASTERN COMMUNICATIONS, LLC LAT: 36° 49' 56.2\"/>
<b>H1</b>	FCC REGISTRATION #: 1215547 CELLCO PARTNERSHIP LAT: 36° 48' 09.11\"/>
<b>B1</b>	FCC REGISTRATION #: 1042225 GLOBAL TOWER, LLC through AMERICAN TOWER, LLC LAT: 36° 44' 13.0\"/>
<b>I1</b>	FCC REGISTRATION #: 125703 MEDIA.COM SOUTHEAST LLC LAT: 36° 42' 55.21\"/>
<b>C1</b>	FCC REGISTRATION #: 1043026 FRANK KEETON AIRCASTERS, INC. LAT: 36° 43' 27.0\"/>
<b>J1</b>	FCC REGISTRATION #: 1258492 CELLCO PARTNERSHIP LAT: 36° 47' 29.11\"/>
<b>D1</b>	FCC REGISTRATION #: 1043447 TPT I, LLC LAT: 36° 43' 06.4\"/>
<b>K1</b>	FCC REGISTRATION #: 1263385 CELLCO PARTNERSHIP LAT: 36° 45' 08.21\"/>
<b>E1</b>	FCC REGISTRATION #: 1044822 COMMONWEALTH OF KENTUCKY dba = KY EMERGENCY WARNING SYSTEM NEWS LAT: 36° 43' 17.3\"/>
<b>L1</b>	FCC REGISTRATION #: 1273499 CELLCO PARTNERSHIP LAT: 36° 39' 32.11\"/>
<b>F1</b>	FCC REGISTRATION #: 1055079 SOMERSET EDUCATIONAL BROADCASTING FOUNDATION LAT: 36° 49' 05.0\"/>
<b>M1</b>	FCC REGISTRATION #: 1278911 CELLCO PARTNERSHIP LAT: 36° 39' 32.11\"/>
<b>G1</b>	FCC REGISTRATION #: 1065560 CELLCO PARTNERSHIP LAT: 36° 41' 54.0\"/>

### SITE INFORMATION:

CK TOMPKINSVILLE III  
 POPLAR LOG CHURCH ROAD  
 TOMPKINSVILLE, KY 42167  
 MONROE COUNTY  
 TAX PARCEL NUMBER:  
 48-02  
 PROPERTY OWNER:  
 KELBY GRAVES  
 KAYLIN GRAVES AND  
 KEGAN GRAVES  
 3033 EBENEZER ROAD  
 TOMPKINSVILLE, KY 42167  
 SOURCE OF TITLE:  
 DEED BOOK 133, PAGE 210

POD NUMBER: 22-121716  
 DRAWN BY: DAP  
 CHECKED BY: MEP  
 SURVEY DATE: 8.30.21  
 PLAT DATE: 2.15.22  
 SHEET TITLE:

### TOWER GRID MAP

SHEET NUMBER: (1 page)

C-1

PREPARED BY:



PREPARED FOR:



### REVISIONS

REV.	DATE	DESCRIPTION
A	2.15.22	ISSUED FOR REVIEW

\*\*\*\*\*  
\* Federal Airways & Airspace \*  
\* Summary Report: New Construction \*  
\* Antenna Structure \*  
\*\*\*\*\*

Airspace User: Not Identified

File: 0000

Location: Tompkinsville, KY

Latitude: 36°-42'-24.12" Longitude: 85°-43'-17.68"

SITE ELEVATION AMSL.....1020 ft.

STRUCTURE HEIGHT.....195 ft.

OVERALL HEIGHT AMSL.....1215 ft.

#### NOTICE CRITERIA

FAR 77.9(a): NNR (DNE 200 ft AGL)

FAR 77.9(b): NNR (DNE Notice Slope)

FAR 77.9(c): NNR (Not a Traverse Way)

FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for TZV

FAR 77.9: NNR (No Expected TERPS® impact 1A7)

FAR 77.9(d): NNR (Off Airport Construction)

NR = Notice Required

NNR = Notice Not Required

PNR = Possible Notice Required (depends upon actual IFR procedure)

For new construction review Air Navigation Facilities at bottom  
of this report.

Notice to the FAA is not required at the analyzed location and height for  
slope, height or Straight-In procedures. Please review the 'Air Navigation'  
section for notice requirements for offset IFR procedures and EMI.

#### OBSTRUCTION STANDARDS

FAR 77.17(a)(1): DNE 499 ft AGL

FAR 77.17(a)(2): DNE - Airport Surface

FAR 77.19(a): DNE - Horizontal Surface

FAR 77.19(b): DNE - Conical Surface

FAR 77.19(c): DNE - Primary Surface

FAR 77.19(d): DNE - Approach Surface

FAR 77.19(e): DNE - Approach Transitional Surface

FAR 77.19(e): DNE - Abeam Transitional Surface

VFR TRAFFIC PATTERN AIRSPACE FOR: TZV: TOMPKINSVILLE-MONROE COUNTY

Type: A RD: 20220.18 RE: 1015.2

FAR 77.17(a)(1): DNE

FAR 77.17(a)(2): DNE - Height No Greater Than 200 feet AGL.  
 VFR Horizontal Surface: DNE  
 VFR Conical Surface: DNE  
 VFR Primary Surface: DNE  
 VFR Approach Surface: DNE  
 VFR Transitional Surface: DNE

The structure is within VFR - Traffic Pattern Airspace Climb/Descent Area. Structures exceeding the greater of 350' AAE, 77.17(a)(2), or VFR horizontal and conical surfaces will receive a hazard determination from the FAA. Maximum AMSL of Climb/Descent Area is 1386 feet.

VFR TRAFFIC PATTERN AIRSPACE FOR: 1A7: JACKSON COUNTY

Type: A RD: 113463.9 RE: 515  
 FAR 77.17(a)(1): DNE  
 FAR 77.17(a)(2): DNE - Greater Than 5.99 NM.  
 VFR Horizontal Surface: DNE  
 VFR Conical Surface: DNE  
 VFR Primary Surface: DNE  
 VFR Approach Surface: DNE  
 VFR Transitional Surface: DNE

TERPS DEPARTURE PROCEDURE (FAA Order 8260.3, Volume 4)

FAR 77.17(a)(3) Departure Surface Criteria (40:1)  
 DNE Departure Surface

MINIMUM OBSTACLE CLEARANCE ALTITUDE (MOCA)

FAR 77.17(a)(4): DNE - No Airway Found

PRIVATE LANDING FACILITIES

FACIL	BEARING	RANGE	DELTA ARP FAA
IDENT TYP NAME	To FACIL	IN NM	ELEVATION IFR
1KY3 HEL MONROE COUNTY MEDICAL CENTER	103.38	2.24	+245

No Impact to Private Landing Facility  
 Structure is beyond notice limit by 8610 feet.

AIR NAVIGATION ELECTRONIC FACILITIES

FAC	ST	DIST	DELTA	GRND	
IDNT	TYPE	AT	FREQ VECTOR (ft)	ELEVA ST LOCATION	ANGLE
LVT	VOR/DME	I	108.4 105.45 168789	+195 TN LIVINGSTON	.07

CFR Title 47, §1.30000-§1.30004

AM STUDY NOT REQUIRED: Structure is not near a FCC licensed AM station. Movement Method Proof as specified in §73.151(c) is not required.

Please review 'AM Station Report' for details.

Nearest AM Station: WTKY @ 4080 meters.

Airspace® Summary Version 21.9.615

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10-26-2021

11:32:40



## APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

### JURISDICTION

602 KAR 50:030

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

### INSTRUCTIONS

1. "Alteration" means to increase or decrease the height of a structure or change the obstruction marking and lighting.
2. "Applicant" means the person who will own or have control over the completed structure.
3. "Certification by Applicant" shall be made by the individual who will own or control the completed structure; or a partner in a partnership; or the president or authorized officer of a corporation company, or association; or the authorized official of a body politic; or the legally designated representative of a trustee, receiver, or assignee.
4. Prepare the application and forward to the Kentucky Airport Zoning Commission, 421 Buttermilk Pike, Covington, KY 41017. For questions, telephone 859-341-2700.
5. The statutes applicable to the Kentucky Airport Commission are KRS 183.861 to 183.990 and the administrative regulations are 602 KAR Chapter 50.
6. When applicable, attach the following appendices to the application:
  - Appendix A. A 7.5 minute quadrangle topographical map prepared by the U.S. Geological Survey and the Kentucky Geological Survey with the exact location of the structure which is the subject of the application indicated thereon. (*The 7.5 minute quadrangle map may be obtained from the Kentucky Geological Survey, Department of Mines and Minerals, Lexington, KY 40506.*)
  - Appendix B. For structures on or very near to property of a public use airport, a copy of the airport layout drawing (ALP) with the exact location of the structure which is the subject of this application indicated thereon. (*The ALP may be obtained from the Chairperson of the local airport board or the Kentucky Airport Zoning Commission.*)
  - Appendix C. Copies of Federal Aviation Administration Applications (*FFA Form 7460-1*) or any orders issued by the manager, Air Traffic Division, FAA regional office.
  - Appendix D. If the applicant has indicated in item number 7 of the application that the structure will not be marked or lighted in accordance with the regulations of the Commission, the applicant shall attach a written request for a determination by the commission that the marking and lighting are not necessary. The applicant shall specifically state the reasons that the absence of marking and lighting will not impair the safety of air navigation.
  - Appendix E. The overall height in feet of the overhead transmission line or static wire above ground level or mean water level with span length 1,000 feet and over shall be depicted on a blueprint profile map.

### PENALTIES

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



KENTUCKY TRANSPORTATION CABINET  
**KENTUCKY AIRPORT ZONING COMMISSION**

TC 55-2  
 Rev. 05/2017  
 Page 2 of 2

**APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE**

<b>APPLICANT (name)</b> Southern Towers		<b>PHONE</b> (423)531-6300	<b>FAX</b>	<b>KY AERONAUTICAL STUDY #</b>	
<b>ADDRESS (street)</b> 250 Signal Mountain Rd, Suite B		<b>CITY</b> Chattanooga		<b>STATE</b> TN	<b>ZIP</b> 37405
<b>APPLICANT'S REPRESENTATIVE (name)</b> ASAC		<b>PHONE</b> 770-532-3255	<b>FAX</b>		
<b>ADDRESS (street)</b> 450 Notson Ter		<b>CITY</b> Port Charlotte		<b>STATE</b> FL	<b>ZIP</b> 33952
<b>APPLICATION FOR</b> <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration <input type="checkbox"/> Existing			<b>WORK SCHEDULE</b>		
<b>DURATION</b> <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary (months days )			Start End		
<b>TYPE</b> <input type="checkbox"/> Crane <input type="checkbox"/> Building <input checked="" type="checkbox"/> Antenna Tower <input type="checkbox"/> Power Line <input type="checkbox"/> Water Tank <input type="checkbox"/> Landfill <input type="checkbox"/> Other		<b>MARKING/PAINTING/LIGHTING PREFERRED</b> <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			
<b>LATITUDE</b> 36 ° 42 ' 24.12 "		<b>LONGITUDE</b> 85 ° 43 ' 17.68 "		<b>DATUM</b> <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> Other	
<b>NEAREST KENTUCKY</b> City TompCounty Monroe		<b>NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT</b> Tompkinsville/Monroe County			
<b>SITE ELEVATION (AMSL, feet)</b> 1020		<b>TOTAL STRUCTURE HEIGHT (AGL, feet)</b> 195		<b>CURRENT (FAA aeronautical study #)</b> 2022-ASO-26253-OE	
<b>OVERALL HEIGHT (site elevation plus total structure height, feet)</b> 1215				<b>PREVIOUS (FAA aeronautical study #)</b>	
<b>DISTANCE (from nearest Kentucky public use or Military airport to structure)</b> 3.5 NM				<b>PREVIOUS (KY aeronautical study #)</b>	
<b>DIRECTION (from nearest Kentucky public use or Military airport to structure)</b> 68					
<b>DESCRIPTION OF LOCATION</b> (Attach USGS 7.5 minute quadrangle map or an airport layout drawing with the precise site marked and any certified survey.) See survey and map					
<b>DESCRIPTION OF PROPOSAL</b>  Proposed new construction					
<b>FAA Form 7460-1</b> (Has the "Notice of Construction or Alteration" been filed with the Federal Aviation Administration?) <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes, when? 7/6/22					
<b>CERTIFICATION</b> (I hereby certify that all the above entries, made by me, are true, complete, and correct to the best of my knowledge and belief.)					
<b>PENALTIES</b> (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.)					
<b>NAME</b> Dale Smith		<b>TITLE</b> CEO, ASAC		<b>SIGNATURE</b>	
				<b>DATE</b> 7/6/22	
<b>COMMISSION ACTION</b>					
<input type="checkbox"/> Chairperson, KAZC <input type="checkbox"/> Administrator, KAZC					
<input type="checkbox"/> Approved		<b>SIGNATURE</b>		<b>DATE</b>	
<input type="checkbox"/> Disapproved					



Poplar Log Ch.

Branch

Poplar Log Sch  
Berea Ch.

3000 ft



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 Tompkinsville III Site, Location Code 689717  
Tompkinsville, 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: Poplar Log Church Road, Tompkinsville, KY
- 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 5 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 review of street level imagery, the ground surface appears to slope downward to the west across the area of proposed construction.

### Geology

The *Geologic Map of the Tompkinsville Quadrangle, Monroe County, Kentucky*<sup>1</sup> indicates the site is blanketed by Mississippian Age St. Louis limestone. The formation is generally described as thin to medium bedded, fossiliferous, and cherty.

### Typical Profile

Near-surface conditions at the site were assessed with a soil boring that was drilled at the approximate location and to the depth shown by the attached boring location Plan and Log. 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	25	Lean clay <sup>1</sup>	Medium stiff to very stiff <sup>2</sup>
Stratum 3	51½	Fat clay <sup>1</sup>	Medium stiff to stiff <sup>3</sup>

1. Soil profile was variably sandy and contained a cherty zone between from about 6 feet to 25 feet.
2. Based on standard penetration test (SPT) N-values ranging from 5 to 29 blows per foot (bpf), and correlated hand penetrometer (HP) indices ranging from about 3,500 psf to 7,500 psf.
3. Based on standard penetration test (SPT) N-values ranging from 6 to 10 blows per foot (bpf), and correlated hand penetrometer (HP) indices ranging from about 2,500 psf to 3,000 psf.

### Groundwater

The boring was checked while drilling and after completion for groundwater. Free water was observed in the borehole at a depth of about 35 feet. 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.

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<sup>1</sup> Kentucky Geological Survey, USGS Map GQ-937 (1971), as published on the *USGS National Geologic Map* database.

**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 can consist of grade supported slabs with perimeter turn downs. 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) <sup>1</sup>	Allowable values for:			Cohesion (psf)	Internal friction angle (degrees)	Strain $\epsilon_{50}$	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 – 25	400	3,000	1,250	1,250	-	0.008	100
Fat clay 25 – 51	350	2,500	1,000	1,000	-	0.009	80

1. The pier length should be adjusted if variable soil conditions are encountered. A total unit weight of 115 pcf can be assumed for the clay.

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 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 soils 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 can be used to support the proposed tower. The shallow footing can be designed using the following natural soil / engineered fill parameters. Any weak and yielding soils encountered at the bearing level should be undercut to stiff natural soils and replaced with approved granular fill prior to foundation construction. Alternatively, the footing can be extended through the weak zones and placed on stiff natural soils.

- Subgrade ..... stiff natural soil or approved engineered fill
- Net allowable bearing pressure <sup>1</sup>.....2,500 psf
- Allowable passive pressure <sup>2</sup> ..... 750 psf (below 3 feet)
- Ultimate coefficient of sliding friction ..... 0.35
- 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 subsurface soil 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 soils engineer should verify the footing subgrade prior to concrete placement. Any soft or unsuitable soils, 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 or soft soil prior to placing concrete which should proceed as soon as practical after the excavation is opened. Should the subgrade at bearing level become desiccated, disturbed, saturated, or frozen, the affected material should be removed and replaced with compacted engineered fill prior to placing concrete. A lean concrete mud-mat should be placed over the bearing soils if the excavations must remain open over night or for an extended period of time.

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 <sup>1</sup>.....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 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 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 below.

<b>Traverse alignment</b>	<b>“A” Spacing (ft.)</b>	<b>Resistivity (ohm-cm)</b>
N – S	2 ½	23,123
N – S	5	33,991
N – S	10	49,598
N – S	12 ½	54,817
N – S	20	59,365

### **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

Geotechnical Report for CK Tompkinsville III Cell Tower  
Tompkinsville, KY  
March 30, 2022



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.

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 A. Couch'.

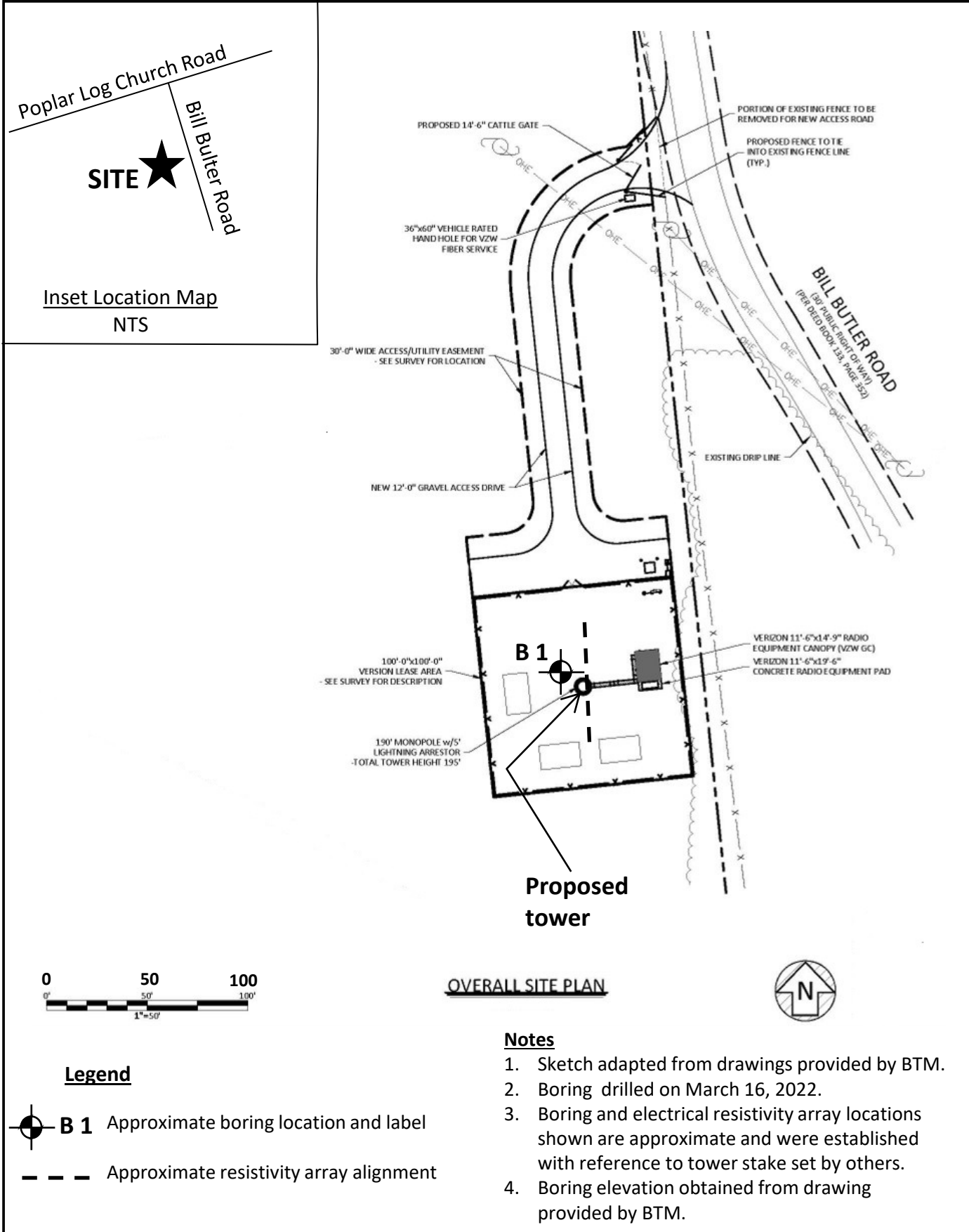
Nathan A. Couch, P.E.  
Project Engineer



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

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





Project Mgr.	Project No. 3363-22-01
Drawn by: SV	Scale: NTS
Reviewed by:	File Name: Exh. 1
Approved by:	Date: 30Mar2022

**COLLIER**  
ENGINEERING CO., INC.  
CONSULTING • DESIGN • CONSTRUCTION

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

<b>BORING LOCATION SKETCH</b>
Proposed CK Tompkinsville III Cell Tower Poplar Log Church Road at Bill Butler Road Tompkinsville, KY

Exh.
<b>1</b>





2949 Nolensville Pike  
Nashville, TN 37211

### LOG OF BORING B-1

Project Name/Site No.: CK Tompkinsville III Tower, Site #689717  
 Site Location: Poplar Log Church Road, Tompkinsville, KY  
 Collier Project Number: 3363-22-01  
 Client: BTM Engineering, Inc.  
 Louisville, KY

Sheet 1 of 2

Depth (ft.)	Elevation (ft.)	Location:	Material Description	Depth	Groundwater	Sample type	SPT N-values (blows/foot)	Laboratory hand penetrometer (psf)	Water content (%)	Unconfined compressive strength (psf)	Atterberg Limits
		See Exhibit 1									
		*Surface Elevation: 1020 AMSL									
		*Latitude/Longitude: 36° 42' 24.13" N / -85° 43' 17.68" W									
		*See remarks below									LL-PL-PI
5	1015		Topsoil/root mat	~1							
			Lean clay (CL), mottled tan/grey/red brown, silty zones, trace sand, stiff to very stiff			X	4-7-10 (9)	7,500	26		
			Cherty below 6 feet			X	7-9-12 (21)	7,000	19		
						X	9-12-17 (29)	5,000	23		
10	1010					X	2-6-6 (12)	6,500	25		46-24-22
15	1005					X	5-6-7 (13)		27		
20	1000					X	6-6-6 (12)	3,500	29		
25	995			25		X	2-3-3 (6)	3,000	25		71-27-44
			Fat clay (CH), mottled red brown/tan with occasional sand seam, medium stiff to stiff			X	3-3-3 (6)	2,500	36		
35	985		Sandy below 35 feet		▽	X	2-3-3 (6)	3,000	31		
40	980					X	4-5-5 (10)		28		
45	975					X	2-3-3 (6)		43		
50	970			50							Exhibit 2

Date started/completed: **March 16, 2022**  
 Drilled by: **American Engineers, Inc.**  
 Drill rig: **CME 55 (track chassis mounted)**  
 Hammer type: **Autohammer**  
 Driller: **Don Cash**  
 Water while drilling: **estimated at 35 feet ▽**  
 Water upon completion:  
 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

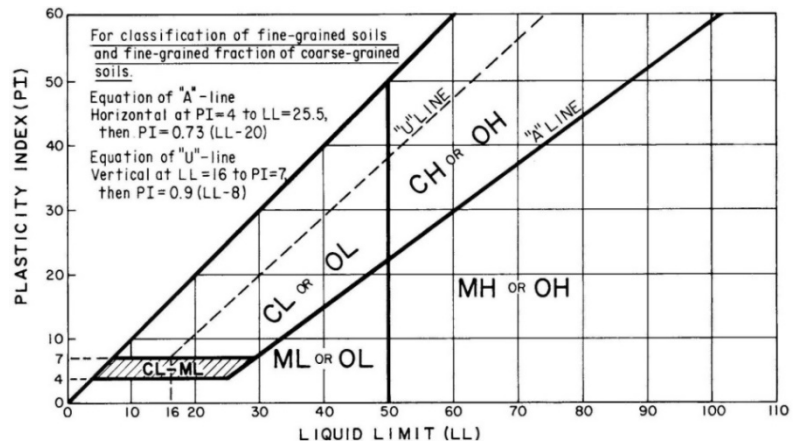
Selected SPT samples were subjected to laboratory testing to assess natural moisture content, Atterberg Limits, and relative shear strength index (using a hand penetrometer). The hand penetrometer has been correlated with unconfined compression tests and provides a better estimate of soil consistency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

### 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 SITE**

FROM MONROE COUNTY JUDGE: 200 N MAIN ST STE C, TOMPKINSVILLE, KY 42167: HEAD NORTHEAST ON N MAIN ST TOWARD E 4TH ST (230 FT). TURN LEFT ONTO STATE HWY 63/W 4TH ST & CONTINUE TO FOLLOW STATE HWY 63 (1.1 MI). TURN LEFT ONTO POPLAR LOG CHURCH RD (1.0 MI). TURN LEFT ONTO BILL BUTLER RD (499 FT). SITE WILL BE LOCATED ON RIGHT (SOUTH WEST) SIDE OF ROAD.

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

### LAND LEASE AGREEMENT

This Land Lease Agreement (the "Agreement") made this 9 day of May, 2022, between **Kelby Graves, Kaylin Graves, and Kegan Graves**, all Kentucky residents with a mailing address of 3133 Ebenezer Road, Tompkinsville, Kentucky 42167, 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 Poplar Log Church Road, Tompkinsville, Kentucky 42167 (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, Poplar Log Church Road, 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 Tompkinsville, Monroe County, as Tax Map ID Number 48-02/ 107236.

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 (1<sup>st</sup>) day of the month following the Commencement Date (as hereinafter defined). The "Commencement Date" shall be the first (1<sup>st</sup>) day of the month after LESSEE begins construction of the

VzW Site Name: CK Tompkinsville

Location Code: 689717

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

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] to be paid in equal monthly installments of [REDACTED] on the first (1<sup>st</sup>) day of the month, in advance, to LESSOR at 3133 Ebenezer Road, Tompkinsville, Kentucky 42167 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,

VzW Site Name: CK Tompkinsville

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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

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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) 427-1273 (Kegan Graves), 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.



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(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: Kelby, Kaylin, and Kegan Graves  
3133 Ebenezer Road  
Tompkinsville, Kentucky 42167

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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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

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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.

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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

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

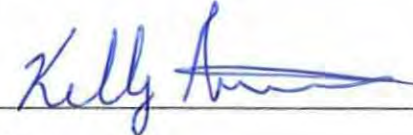
  
WITNESS

  
WITNESS

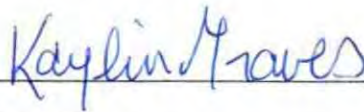
  
WITNESS

  
WITNESS

**LESSOR:**

By:   
Kelby Graves

Date: \_\_\_\_\_

By:   
Kaylin Graves

Date: \_\_\_\_\_

By:   
Kegan Graves

Date: \_\_\_\_\_

**LESSEE:**

**CELLCO PARTNERSHIP**

**d/b/a Verizon Wireless**

By: 

Printed: Ed Maher  
**Director - Network Field Engineering**

Its: \_\_\_\_\_

Date: 5/9/22

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**EXHIBIT "A"**

**DESCRIPTION OF PROPERTY**

**Property located in Monroe County, Kentucky, Tax Parcel No. 48-02**

**PROPERTY 1:**

**BEGINNING on a stone on the North side of a gravel road near the turn of said road a corner to Clyde Lane and an 8 acre tract that is now owned by Thompson; thence with Clyde Lane and a wire fence N 3-1/2 deg. W 232 feet to a stone a corner to said lane and the Huston Butler heirs; thence with the said Butler Heirs and an old rail fence S 88 deg. W 860 feet to an iron stake in said Butler line; thence a new line S 1-1/2 deg. W 454 feet to an iron stake at a fence a new corner, thence N 66 deg. E 165 feet to a sugar tree; thence N 81-1/2 deg. E 544 feet to an iron stake; thence with a fence N 87 deg. E 187 feet to a iron stake on said road, thence N 4 deg. E 62-1/2 feet to the beginning, containing 7 acres more or less. Surveyed October 15, 1979, by Robert H. Harlan, LS. 1194.**

**PROPERTY 2:**

**Beginning at set iron pin on r/w of Fox Hill School Road (40f r/w), a corner to James Ritter; thence with said r/w; N 83 deg. 42 min. 15 sec. E 211.92 ft.; thence N 82 deg. 27 min. 29 sec. E 241.30 ft.; thence N 82 deg. 03 min. 14 sec. E 166.35 ft. to set iron pin on r/w of Fox Hill School Road and on r/w of Bill Butler Road (30' r/w); thence with r/w of Bill Butler Road; S 05 deg. 19 min. 35 sec. E 325.69 ft. to set iron pin on said r/w, a corner to Tim Lee Lane (D.B 79, Pg. 502, recorded in the Monroe County Court Clerk's Office); thence with line of Lane; S 5 deg. 10 min. 54 sec. E 305.32 ft. to 2411 hickory, a corner to Tim Lee Lane and James Ritter (D.B. 60, Pg. 17, recorded in the Monroe County Court Clerk's Office); thence with lines of Ritter, N62 deg. 37 min. 48 sec. W 649.49 ft. to set iron pin; thence N 20 deg. 47 min. 31 sec. W 269.40 ft. to the beginning, containing 5.780 acres, more or less. This property is subject to any existing rights of ways or easements. Surveyed this 29th day of August, 1996, Pride Engineering company, Inc., Moaty C. Estes, K.L.S #1639.**

**PROPERTY 3:**

**DESCRIPTION OF BOUNDARY LINE SURVEY of a 157.85 acre tract of the land of the Est. of William H. Butler located on the Poplar Log School Co. Rd, in Monroe County about 1.7 miles N/W of Tompkinsville, Ky.; from an actual survey and I hereby certify that the correct metes and bounds description of said tract as follows:**

**BEGINNING at a corner on the southern side of the Poplar Log School County Road No. 1200, a corner to the land of Teddy Butler, in Monroe County approximately 1.7 miles northwesterly of Tompkinsville, Kentucky, said point of beginning being located 21 feet from the centerline of said County road and about one mile westerly along said road from its intersection with State Highway No. 63; thence N 23 deg. 42 min. W 12 feet to a spike on the southern edge of pavement of said County road; running thence along the southern edge of said pavement, S 82 deg. 56 min. W 217.9 feet; thence S 71 deg. 37 min. W 74.6 feet;**



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Location Code: 689717

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

thence S 61 deg. 06 min. W 74.7 feet; thence S 58 min. W 99.8 feet; thence S 50 deg. 05 min. W 259.6 feet; thence S 59 deg. 04 min. W 74.7 feet; thence 68 deg. 42 min. W 74.6 feet, thence S 75 deg. 12 min. W 198.7 feet; thence S 69 deg. 21. min. W 99.5 feet; thence S 64 deg. 02 min. W 263.9 feet; thence W 59.5 feet, thence N 75 deg. 01 min. W 69.3 feet; thence N 70 deg. 51 min. W 227.6 feet; thence N 66 deg. 46 min. W 98.9 feet thence N 61 deg. 18 min. W 98.9 feet; thence N 57 deg. 26 min. W. 296.4 feet; thence N 66 deg. 32 min. W 74.2 feet; thence N 77 deg. 10 min. W 49.5 feet; thence S 86 deg. 41 min. W 49.6 feet; thence S 73 deg. 03 min. W 49.7 feet; thence S 64 deg. 20 min. W 99.6 feet; thence S 61 deg. 49 min. W 254 feet; thence S 67 deg. 02 min. W 74.6 feet; thence S 78 deg. 24 min. W 74.5 feet; thence S 86 deg. 04 min. W 74.3 feet; thence N 88 deg. 47 min. W 84.3 feet; thence N 84 deg. 49 min. W 60.3 feet; thence N 77 deg. 25 min. W 90.9 feet to a spike on the southern edge of said County road pavement at the mouth of the Adams Branch County Road No. 1203; thence N 75 deg. 36 min. W 61 feet to a sawed corner post on the southern side of said Poplar Log School County Road, a corner to the lands of Carl Sheffield 21 feet from the centerline of said County road; running thence along the said Sheffield lines, and that of Claude Sheffield, with the fences, S 19 deg. 37 min. W 1193.1 feet, crossing the Adams Branch County Road, to a hickory and black walnut in the fence; thence S 06 deg. 43 min. W 1828.6 feet to a stone at the north bank of Adams Branch in line with the line fence; running thence down said branch; S 33 deg. 17 min. W 103.8 feet; thence S 78 deg. 21 min. W 77.1 feet; thence N 70 deg. 46 min. W 176.3 feet; thence S 79 deg. 36 min. W 224.6 feet; thence N 29 deg. 53 min. W 183.2 feet thence S 78 deg. 39 min. W 60.9 feet to a 6-inch maple at a fence corner on the south side of a said branch, a corner to the lands of Richard McFaw line; running thence along the said McFaw line, with the fence, S 05 deg. 40 min. E 825.4 feet to a black gum at a fence corner, a corner to the lands of Evert Bowman on the McFaw line; running thence along the said Bowman line, with the fence, N 76 deg. 47 min. E 351.1 feet to an 8-inch hickory in the fence; thence N 80 deg. 26 min. E 449.7 feet to a 6-inch maple in the fence; thence N 78 deg. 33 min. E 1130 feet to a hickory at a fence corner, a corner to the land of Cass Graves; running thence along the said Graves lines, with the fences, N 71 deg. 23 min. E 199.5 feet to a stone; thence N 16 deg. 04 min. E 207.6 feet to a fence corner; thence N 10 deg. 27 min. E 366.5 feet to a 24-inch buckeye on the southwest side of Adams Branch; thence N 59 deg. 29 min. W 570.8 feet to a point in the center of said branch in the fence; thence N 04 deg. 22 min. E 596.5 feet, with the fence, to a hickory at a fence corner to the lands of Josh Butler, running thence along the said Butler lines, with the fences, N 05 deg. 33 min. E 801.2 feet to a maple at a fence corner on a drain; thence N 50 deg. 09 min. E 134 feet to a maple in the fence; thence N 82 deg. 11 min. E 856.5 feet, with the fence to a 42-inch white oak in front of Josh Butlers residence thence N 89 deg. 53 min. E 817.7 feet with the fence, to a stone at a fence corner, a corner to the land of Albert Thompson; running thence along the said Thompson lines, with the fences N 56 deg. 20 min. E 527.4 feet to a stone at an angle in the fence; thence N 89 deg. 17 min. E 1025.9 feet to a stone at a fence corner, a corner to the said Thompson tract on the Clyde Lane line, running thence along the said Lane boundary, with the fence, N 02 deg. 11 min. W 403.8 feet to a 24-inch hickory at a fence corner, a corner to the lands of Teddy Butler, running thence along the said Butler lines, with the fences, N 64 deg. 27 min. W 648.6 feet to a stone on the west side of the fence; thence N 22 deg. 52 min. W 269.4 feet, with the fence, to the point of beginning, containing 158.52 acres, EXCEPTING 0.97 acres for existing public road right-of-way contained in the right-of-way of the Poplar Log School County Road and

VzW Site Name: CK Tompkinsville

Location Code: 689717

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

**the Adams Branch County Road, leaving a balance of 157.85 acres more or less, according to this survey made in June 1983 by Paul Luster RLS # 966 subject to existing rights-of-way and easements.**

**THERE IS EXCEPTED from the above description 157.85 acre survey a 30-foot wide right of way, along an existing lane, from the Poplar Log School County Road to the northern boundary of the Josh Butler tract the centerline of said 30-foot wide right of way is described as follows:**

**BEGINNING at a spike on the southern edge of pavement of the Poplar Log School County Road at the mouth of an existing land that extends southerly to the Josh Butler tract, said point of beginning being located 1,552.3 feet westerly, along said County road, from a corner post on a corner common the above described 157.85 acre survey and the lands of Teddy Butler; running thence along the centerline of the existing lane, S 17 deg. 38 min. W 169.7 feet; thence S 22 deg. 05 min. W 378 feet; thence S 04 deg. 02 min. W 148 feet to a point in the centerline of said lane on the northern boundary of the Josh Butler land and there terminating.**

**The present land owners and future land owners adjoining said 30-foot strip of right of way shall have the right of ingress and egress to their property on same road.**

**There is excepted, however, and not conveyed herein, that portion of the above described real estate previously conveyed by the Grantors to Ricky Graves, et, ux., by Deed dated March 27, 1986, recorded in Deed Book 60, Page 21, Office of the Monroe County Court Clerk, and described as follows:**

**Beginning on a stone on the north bank of Adams branch and in line with the line fence corner to Sheffield and Ritter et al; thence with the meanders of the branch S 33 deg. 17 min. W 103.8'; S 78 deg. 21 min. W 17.1'; N 70 deg. 46 min. W 176.3'; S 79 deg. 36 min. W 224.6'; N 29 deg. 53 min. W 183.2'; S 78 deg. 39 min. W 60.9' to a maple on the south bank of Adams branch and corner to McFall; thence with McFall S 5 deg. 40 min. E 825.4'; to a black gum corner to Bowman; thence with Bowman N 76 deg. 47 min. E 358.83' to a hickory thence N 80 deg. 26 min. E 459.59' to a maple; thence N 78 deg. 33 min. E 1154.87' to a hickory corner to Graves; thence with Graves N 71 deg. 23 min. E 203.89' to a stone; thence N 16 deg. 04 min. E 207.6' to a post; thence N 10 deg. 27 min. E 336.5' to a buckeye; thence N 59 deg. 29 min. W 570.8' to a fence and in the center of Adams branch; thence with fence N 4 deg. 22 min. E 26.42' to a stake in the fence; thence a new division line N 81 deg. 00 min. W 315.27' to a stake; thence S 56 deg. 27 min. W 712.30' to a walnut near Adams branch; thence S 4 deg. 26 min. E 102.07' to a beech; thence S 69 deg. 11 min. W 286.34' to the point of beginning, and containing a calculated area of 40.41 acres, more or less. All bearings refer to magnetic north. According to a survey by Larry G Cranfill, L. S. 1864 and dated March 7, 1986.**

**AND BEING the same property conveyed to Kelby Graves, Kaylin Graves and Kegan Graves from Jeffrey Ritter and his wife, Angelia Ritter by Deed dated July 20, 2018 and recorded August 8, 2018 in Deed Book D133, Page 210.**

VzW Site Name: CK Tompkinsville  
Location Code: 689717  
Atty: Coots Henke & Wheeler, P.C.. Daniel E. Coots

**EXHIBIT "B"**

**SITE PLAN OF THE PREMISES AND DESCRIPTION OF TOWER EQUIPMENT**





POWER OF DESIGN  
LOUISVILLE, KY 40299  
502-331-5252

CELCO PARTNERSHIP



PRELIMINARY  
NOT FOR  
CONSTRUCTION

LEASE EXHIBIT

REV	DATE	DESCRIPTION
A	12.11.21	ISSUED FOR REVIEW

SITE INFORMATION:

CK TOMPKINSVILLE III

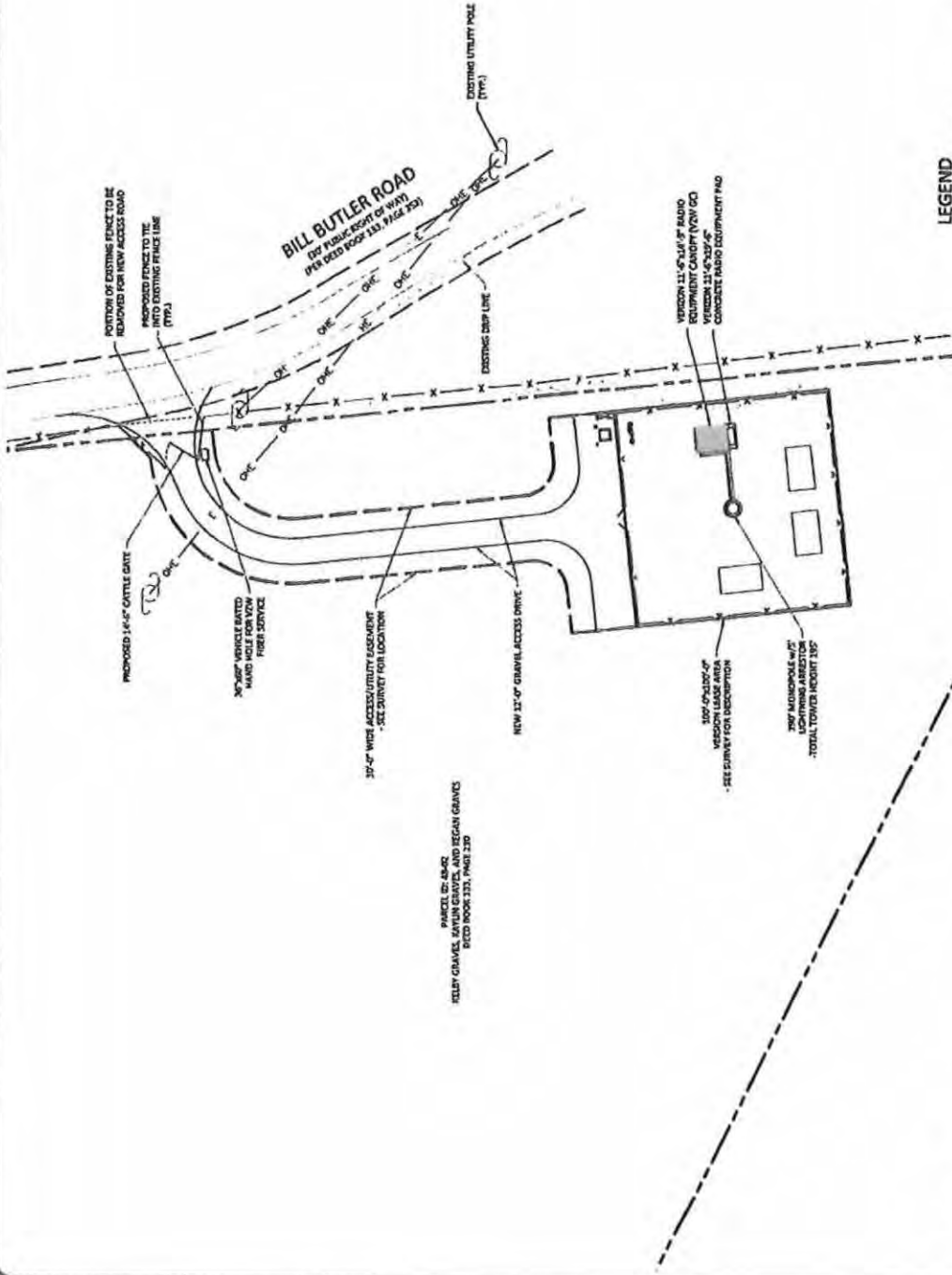
WOMAN LOST ROAD  
TOMPKINSVILLE  
MADISON COUNTY

POD NUMBER: 21-002337  
DRAWN BY: POD  
CHECKED BY: MFP  
DATE: 10.13.21

SHEET TITLE:

OVERALL SITE PLAN

SHEET NUMBER:  
C-1A



LEGEND

--- (dashed line)	PROPOSED LEASE LINE
--- (dashed line)	PROPOSED EASEMENT
--- (dashed line)	PROPOSED DRIVE
--- (dashed line)	PROPOSED FENCE
--- (dashed line)	EXISTING FENCE
--- (dashed line)	EXISTING OVERHEAD ELECTRIC
--- (dashed line)	EXISTING DRIVEWAY
--- (dashed line)	PROPERTY LINE
--- (dashed line)	EXISTING LIGHT



OVERALL SITE PLAN  
SCALE: 1" = 50'

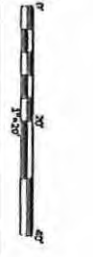


1-800-752-8007  
KENTUCKY 811

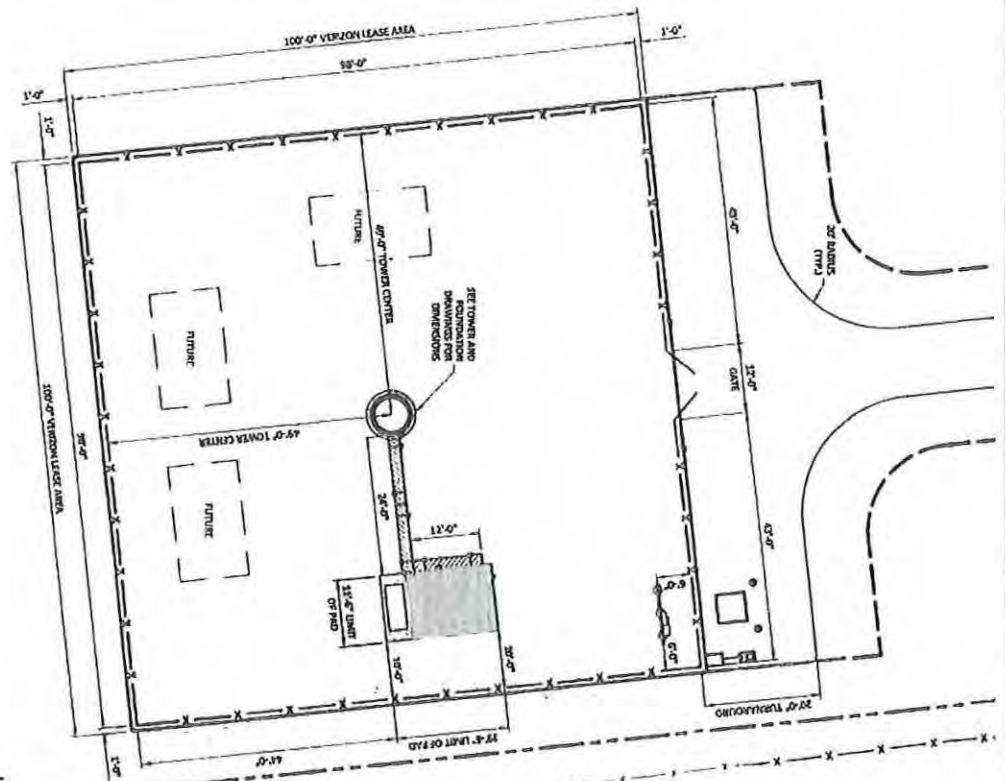




GENERAL CONTRACTOR TO LOCATE  
 ALL UTILITIES AND TO PROVIDE  
 SOIL, ETC. OUTSIDE OF THE STAKED LEASE  
 AREA WITHOUT APPROVAL FROM  
 VERIZON CONSTRUCTION MANAGER



**DIMENSIONED SITE PLAN**  
 SCALE: 1" = 50'



**LEGEND**

	UTILITY POLE
	PROPOSED LEASE LINE
	PROPOSED EASEMENT
	PROPOSED GRAVEL
	PROPOSED FENCE
	PROPOSED TOWER
	PROPOSED TOWERHOUSE
	PROPOSED TOWER OF PAD
	PROPOSED BARRICA
	PROPOSED ROAD

**PRELIMINARY  
 NOT FOR  
 CONSTRUCTION**



CELLO PARTNERSHIP  
 DESIGN

**POD**  
 POWER OF DESIGN  
 14400  
 LOUISVILLE, KY 40248  
 502-487-9222

**LEASE EXHIBIT**

REV	DATE	DESCRIPTION
A	10/11/21	ISSUED FOR REVIEW

SITE INFORMATION

**CK TOMPKINSVILLE III**  
 100' VERIZON LEASE AREA  
 TOMPKINSVILLE, MISSOURI  
 MONROE COUNTY

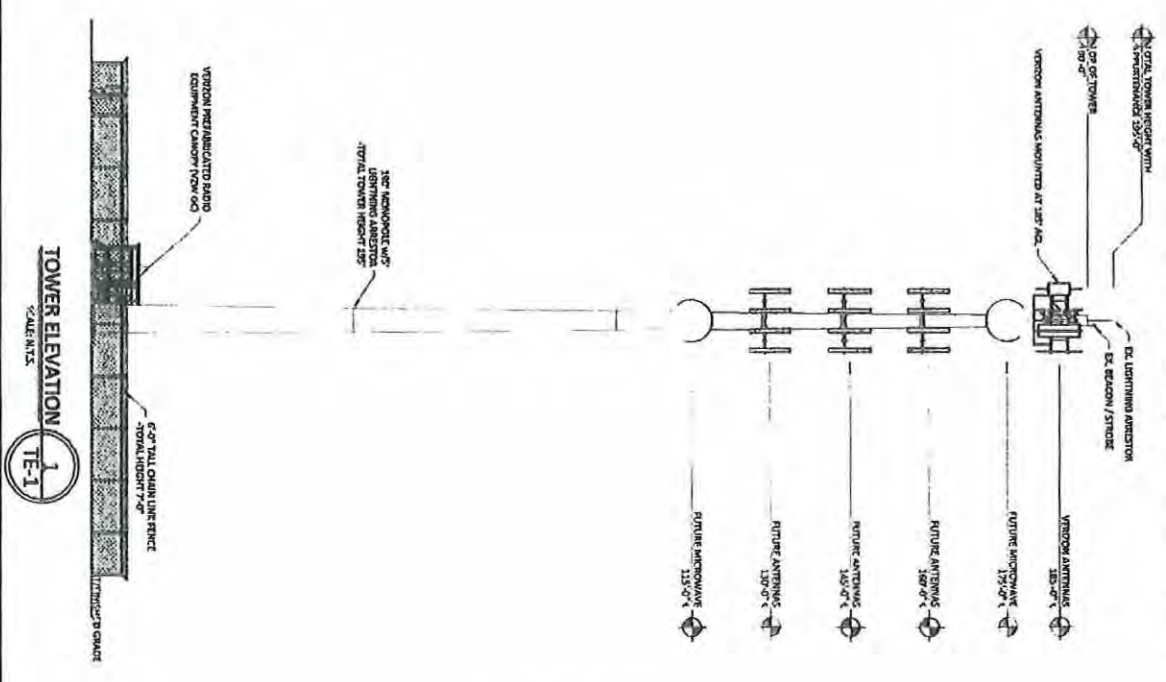
POB NUMBER: 23-32027  
 DRAWN BY: MJD  
 CHECKED BY: MJP  
 DATE: 10/11/21

SHEET TITLE:  
**DIMENSIONED SITE  
 PLAN**

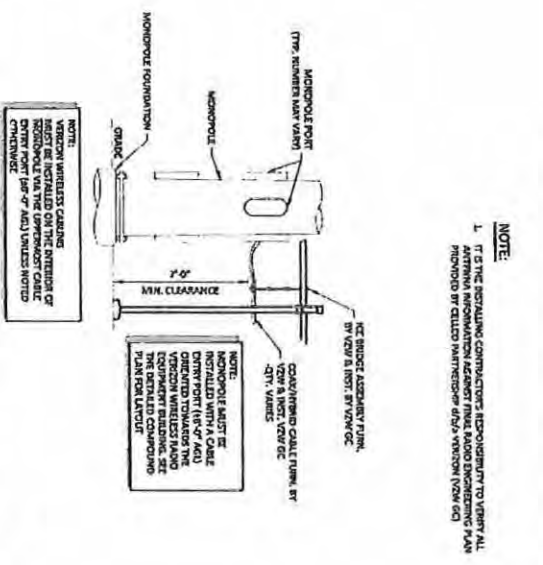
SHEET NUMBER:  
**C-4**



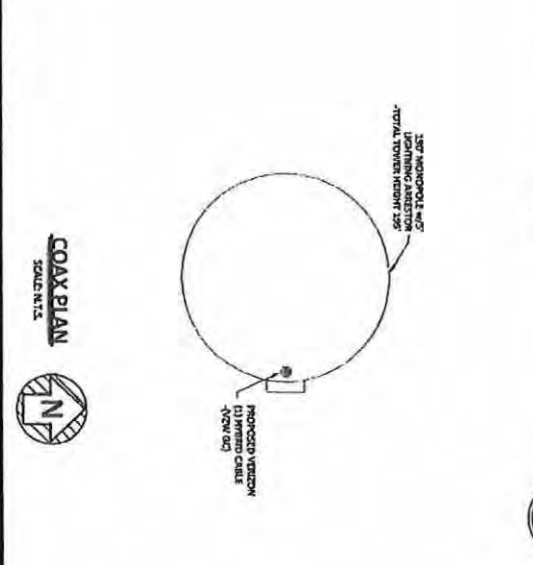




**TOWER ELEVATION**  
SCALE: N.T.S. **TE-1**



**MONOPOLE PORT HYBRID CABLE INSTALLATION DETAIL**  
SCALE: N.T.S. **TE-1**



**COAX PLAN**  
SCALE: N.T.S.

**NOTE:**  
1. IF THE REQUIRED COMPARTMENT ASSEMBLY TO VERIFY ALL  
REQUIRED INFORMATION AGAINST THE ABOVE ENGINEERING PLAN  
PROVIDED BY CALICO PARTNERSHIP (VZV-VZM) (VZM-00)

**NOTE:**  
MONOPOLE PORT IS  
RELOCATED WITH CABLE  
DRIVE PORT (14'-0" AGL)  
ORIGINATED THROUGH THE  
TOWER WELLS. THE  
SYSTEM OF SUPPORTS FOR  
THE DETACHED COAXIAL  
PLAN FOR LAYOUT.

**NOTE:**  
VERIZON WIRELESS CARRIER  
INSTALLATION OF  
MONOPOLE VIA THE UNIVERSITY CABLE  
DRIVE PORT (14'-0" AGL) UNLESS NOTED  
OTHERWISE.

**POD**  
POINT OF DESIGN  
13400 MULLENBURY PARKWAY  
LOUISVILLE, KY 40299  
304-491-3226

**CELLCO PARTNERSHIP**  
SMA  
**verizon**

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

**LEASE EXHIBIT**

NO.	DATE	DESCRIPTION
1	10/13/21	ISSUED FOR REVIEW

**SITE INFORMATION:**  
CK TOMPKINSVILLE III  
10114N US ROAD  
TOMPKINSVILLE, KY 42207  
MONROE COUNTY

**PRO NUMBER:** 21-102877  
**DRAWN BY:** MFP  
**CHECKED BY:** MFP  
**DATE:** 03/23/21

**SHEET TITLE:**  
**TOWER ELEVATION**  
**SHEET NUMBER:**  
**TE-1**



EAST > Great Lakes > Michigan/Indiana/KY > Louisville > CK Tompkinsville III  
Mohammed, Faiz - faiz.mohammed@verizonwireless.com - 6/30/2021 11:22:7

**Project Details**

FUZE Project ID: 16522186

Project Name: CK Tompkinsville III

Project Alt Name: CK Tompkinsville III - New Build

Project Type: Initial Build

Modification Type:

Designed Sector Carrier 4G: 20

Designed Sector Carrier 5G: 3

Additional Sector Carrier 4G: N/A

Additional Sector Carrier 5G: N/A

FP Solution Type & Tech Type: MCR:4G\_700

Carrier Aggregation: false

MPT Id:

eCIP-O: false

Suffix:

**Location Information**

Site ID: 617003442

E-NodeB ID: 2347966,2349966,834966,534966,234966

PSLC: 689717

Switch Name:

Tower Owner:

Tower Type: Monopole

Site Type: MACRO

Site Sub Type: DRAN

Street Address: Poplar Log Road

City: Tompkinsville

State: KY

Zip Code: 42167

County: Monroe

Latitude: 36.706503 / 36° 42' 23.4108" N

Longitude: -85.721472 / 85° 43' 17.2992" W

RFDS Project Scope:

BLUEGRASS CAPACITY SITE

NEW BUILD PROPOSED BUILT CONFIGURATION : 700 AWS1 850(LTE+NR) AWS3 CBRS C-Band

EE CPS input 6/30/2021

Will utilize Y Cables on all dual band radios

Add (3) Mounts

Add (2) OVP

Add (1) Hybrid

Add (2) Cabinets

Add (7) Batteries

Add (1) Electric Service

Add (1) Generator/Tank

**Antenna Summary**

Antenna ID	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity
700	850	AWS	AWIS3	CBRS	L-Subs	Make			
	LTE		COMMSCOPE	NHH-85C-R2B	185	189	55(01) 775(02) 295(03)	true	PHYSICAL 3
	LTE		COMMSCOPE	NHSS-85C-R2B	185	189	55(01) 775(02) 295(03)	true	PHYSICAL 3
	5G		Ericsson	AIR6449	185	186.3	55(0001) 775(0002) 295(0003)	false	PHYSICAL 3

Removed

Antenna ID	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity
700	850	AWS	AWIS3	CBRS	L-Subs	Make			
	LTE		COMMSCOPE	NHH-85C-R2B	185	189	55(01) 775(02) 295(03)	true	PHYSICAL 3
	LTE		COMMSCOPE	NHSS-85C-R2B	185	189	55(01) 775(02) 295(03)	true	PHYSICAL 3
	5G		Ericsson	AIR6449	185	186.3	55(0001) 775(0002) 295(0003)	false	PHYSICAL 3

Reached

Antenna ID	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity
700	850	AWS	AWIS3	CBRS	L-Subs	Make			
	LTE		COMMSCOPE	NHH-85C-R2B	185	189	55(01) 775(02) 295(03)	true	PHYSICAL 3
	LTE		COMMSCOPE	NHSS-85C-R2B	185	189	55(01) 775(02) 295(03)	true	PHYSICAL 3
	5G		Ericsson	AIR6449	185	186.3	55(0001) 775(0002) 295(0003)	false	PHYSICAL 3

Added: 0

Removed: 0

Reached: 0

No data available.

### Equipment Summary

Equipment Type	Location	700	850	AWS	AWS3	CBRS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity
Mount	Tower	LTE	LTE SG	LTE	LTE	LTE		Commscope	BSMNT-SDS-1-2			PHYSICAL	3
RRU	Tower					LTE		Ericsson	4408 S40 DC			PHYSICAL	3
RRU	Tower	LTE	LTE SG					Ericsson	4449			PHYSICAL	3
RRU	Tower			LTE	LTE			Ericsson	2843			PHYSICAL	3
Mount	Tower							Perfect Vision	PV-AMP1-SF412-WP-12-278X96			PHYSICAL	1
OVP Box	Tower	LTE	LTE SG	LTE	LTE	LTE	SG	RFS	DB-C1-12C-24AB-02			PHYSICAL	1
Hybrid Cable	Tower	LTE	LTE SG	LTE	LTE	LTE	SG	RFS	H19159-V12S24-XX-L1	TBD		PHYSICAL	1
Shelter/Cabinet	Shelter							Delfin	Outdoor Cabinet			PHYSICAL	2
ERU	Shelter	LTE	LTE SG			LTE		Ericsson	9030			PHYSICAL	2
BSU	Shelter			LTE	LTE		SG	Ericsson	6648			PHYSICAL	1
OVP Box	Shelter	LTE	LTE SG	LTE	LTE	LTE	SG	RFS	DB-C1-12C-24AB-02			PHYSICAL	1
Battery	Shelter							Sort	TdLX 160 (7 Springs)			PHYSICAL	7
Other	Other							Electric Service	220 Single 200 Amp			PHYSICAL	1
Generator	Other							Generac	132 Gallon Fuel Tank			PHYSICAL	1
Generator	Other							Generac	7734-Q 30KW Diesel Generator			PHYSICAL	1

Removed

Equipment Type Location 700 850 AWS AWS3 CBRS L-Sub6 Make Model Cable Length Cable Size Install Type Quantity  
No data available.

Required

Equipment Type Location 700 850 AWS AWS3 CBRS L-Sub6 Make Model Cable Length Cable Size Install Type Quantity  
No data available.

Service Info

Sector Ashburn  
 Cell / ENode B ID 234966  
 Antenna Model NHH-55C-R28

Antenna Make Andrew  
 Mechanical Down-Tilt(Deg) 185  
 Electrical Down-Tilt 0  
 Tip Height 0  
 Regulatory Power 189  
 Total ERP (W) 95.61  
 TMA Make TMA Model  
 RRU Make RRU Model  
 Number of Tx, Rx Lanes 4,4  
 Position ATOLL\_API  
 Transmitter Id 10495771

Sector Ashburn  
 Cell / ENode B ID 234966  
 Antenna Model NHH-55C-R28

Antenna Make Andrew  
 Mechanical Down-Tilt(Deg) 185  
 Electrical Down-Tilt 0  
 Tip Height 0  
 Regulatory Power 189  
 Total ERP (W) 95.61  
 TMA Make TMA Model  
 RRU Make RRU Model  
 Number of Tx, Rx Lanes 4,4  
 Position ATOLL\_API  
 Transmitter Id 10495771

Sector Ashburn  
 Cell / ENode B ID 234966  
 Antenna Model NHH-55C-R28

Antenna Make Andrew  
 Mechanical Down-Tilt(Deg) 185  
 Electrical Down-Tilt 0  
 Tip Height 0  
 Regulatory Power 189  
 Total ERP (W) 95.61  
 TMA Make TMA Model  
 RRU Make RRU Model  
 Number of Tx, Rx Lanes 4,4  
 Position ATOLL\_API  
 Transmitter Id 10495771

01 55 234966  
 NHH-55C-R28  
 ANDREW  
 185  
 0  
 0  
 189  
 95.61

Ericsson  
 4449  
 4,4

10495771  
 ATOLL\_API

02 175 234966  
 NHH-55C-R28  
 ANDREW  
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 0  
 0  
 189  
 95.61

Ericsson  
 4449  
 4,4

1049578  
 ATOLL\_API

03 295 234966  
 NHH-55C-R28  
 ANDREW  
 185  
 0  
 0  
 189  
 95.61

Ericsson  
 4449  
 4,4

10495779  
 ATOLL\_API

04 175 234966  
 NHH-55C-R28  
 ANDREW  
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 95.61

Ericsson  
 4449  
 4,4

10495778  
 ATOLL\_API

05 175 234966  
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 95.61

Ericsson  
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10495778  
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 95.61

Ericsson  
 4449  
 4,4

10495778  
 ATOLL\_API

07 175 234966  
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 189  
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Ericsson  
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10495778  
 ATOLL\_API

08 175 234966  
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 ANDREW  
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 189  
 95.61

Ericsson  
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10495778  
 ATOLL\_API

09 175 234966  
 NHH-55C-R28  
 ANDREW  
 185  
 0  
 0  
 189  
 95.61

Ericsson  
 4449  
 4,4

10495778  
 ATOLL\_API

Sector  
 Azimuth  
 Cell / Block ID  
 Antenna Model  
 Antenna Make  
 Antenna Certification(F)  
 Mechanical Down-Tilt(Deg.)  
 Electrical Down-Tilt  
 Tip Height  
 Regulatory Power  
 Total ERP (W)  
 TMA Make  
 TMA Model  
 RRU Make  
 RRU Model  
 Number of Tx. Pts. Lines  
 Position  
 Transmitter ID  
 Source

01	02	01	02
55	175	55	175
534966	534966	534966	534966
NHSS-65C-R2B	NHSS-65C-R2B	NHSS-65C-R2B	NHSS-65C-R2B
COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE
185	185	185	185
0	0	0	0
0	0	0	0
189	189	189	189
240.61	240.61	240.61	240.61
Ericsson	Ericsson	Ericsson	Ericsson
8843	8843	8843	8843
4,4	4,4	4,4	4,4
10496106	10496189	10496189	10496107
ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API
02	03	03	03
175	295	295	295
534966	534966	534966	534966
NHSS-65C-R2B	NHSS-65C-R2B	NHSS-65C-R2B	NHSS-65C-R2B
COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE
185	185	185	185
0	0	0	0
0	0	0	0
189	189	189	189
240.61	240.61	240.61	240.61
Ericsson	Ericsson	Ericsson	Ericsson
8843	8843	8843	8843
4,4	4,4	4,4	4,4
10496150	10496108	10496108	10496191
ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API

Sector  
Azimuth  
Cell / ENode B ID  
Antenna Model

01  
02  
55  
534966  
NHHSS-65C-R2B

01  
02  
55  
534966  
NHHSS-65C-R2B

01  
02  
55  
534966  
NHHSS-65C-R2B

01  
02  
55  
534966  
NHHSS-65C-R2B

01  
02  
55  
534966  
NHHSS-65C-R2B

01  
02  
55  
534966  
NHHSS-65C-R2B

01  
02  
55  
534966  
NHHSS-65C-R2B

Antenna Make  
Antenna Centerline(CPL)  
Mechanical Down-Tilt(Deg)  
Electrical Down-Tilt  
Tip Height  
Regulatory Power  
Total ERP (W)  
TMA Make  
TMA Model  
RRU Make  
RRU Model  
Number of Tx, Rx Lines  
Position  
Transmitter Id  
Source

Ericsson  
8843  
4,4  
10508106  
ATOLL\_API

Ericsson  
8843  
4,4  
10508107  
ATOLL\_API

Ericsson  
8843  
4,4  
10508106  
ATOLL\_API

Ericsson  
8843  
4,4  
10508107  
ATOLL\_API

Ericsson  
8843  
4,4  
10508106  
ATOLL\_API

Ericsson  
8843  
4,4  
10508107  
ATOLL\_API

Ericsson  
8843  
4,4  
10508106  
ATOLL\_API

Sector  
Azimuth  
Cell / ENode B ID  
Antenna Model

03  
295  
834966  
NHHSS-65C-R2B

03  
295  
834966  
NHHSS-65C-R2B

03  
295  
834966  
NHHSS-65C-R2B

03  
295  
834966  
NHHSS-65C-R2B

03  
295  
834966  
NHHSS-65C-R2B

03  
295  
834966  
NHHSS-65C-R2B

03  
295  
834966  
NHHSS-65C-R2B

Antenna Make  
Antenna Centerline(CPL)  
Mechanical Down-Tilt(Deg)  
Electrical Down-Tilt  
Tip Height  
Regulatory Power  
Total ERP (W)  
TMA Make  
TMA Model  
RRU Make  
RRU Model  
Number of Tx, Rx Lines  
Position  
Transmitter Id  
Source

Ericsson  
4408 B48 DC  
4,4  
10496268  
ATOLL\_API

Ericsson  
4408 B48 DC  
4,4  
10496269  
ATOLL\_API

Ericsson  
4408 B48 DC  
4,4  
10496268  
ATOLL\_API

Ericsson  
4408 B48 DC  
4,4  
10496269  
ATOLL\_API

Ericsson  
4408 B48 DC  
4,4  
10496268  
ATOLL\_API

Ericsson  
4408 B48 DC  
4,4  
10496269  
ATOLL\_API

Ericsson  
4408 B48 DC  
4,4  
10496270  
ATOLL\_API

Sector  
 Azimuth  
 Cell / Blade B ID  
 Antenna Model  
 Antenna Height  
 Antenna Centerline (°)  
 Mechanical Down-Tilt (Deg.)  
 Electrical Down-Tilt  
 Tip Height  
 Regulatory Power  
 Total ERP (W)  
 TMA Make  
 TMA Model  
 RRU Make  
 RRU Model  
 Number of Tx. Per Line  
 Position  
 Transmitter ID  
 Source

0001  
 55  
 2347966  
 AIR6449  
 Ericsson  
 185  
 0  
 6  
 186.3  
 1613.89  
 Ericsson  
 AIR6449  
 -4.4  
 10496226  
 ATOLL\_API

0002  
 175  
 2349966  
 AIR6449  
 Ericsson  
 185  
 0  
 6  
 186.3  
 1613.89  
 Ericsson  
 AIR6449  
 -4.4  
 10496227  
 ATOLL\_API

0003  
 295  
 2349966  
 AIR6449  
 Ericsson  
 185  
 0  
 6  
 186.3  
 1613.89  
 Ericsson  
 AIR6449  
 -4.4  
 10496228  
 ATOLL\_API



Callsigns Per Antenna

Sector	Antenna Idz	Antenna Hk	Ant CL Height, AGL	Tip Height	Azimuth (TI)	Electrical Tilt	Mechanical Tilt	Gain	Beamwidth	Regulatory Power	Calligns	700	850	1900	2100	28 GHz	31 GHz	39 GHz
02	COMMSCC	NHSS-65C-R2B	185	189	175	0	0	15.818	62	240.61					WQVW764 WQVW765			
01	COMMSCC	NHSS-65C-R2B	185	189	55	0	0	15.818	62	240.61					WQVW764 WQVW765			
02	COMMSCC	NHSS-65C-R2B	185	189	175	4	0	14.558	65	90.01								
03	COMMSCC	NHSS-65C-R2B	185	189	295	4	0	14.558	65	90.01								
03	COMMSCC	NH-65C-R2B	185	189	295	0	0	13.505	60.5	344.4		KNKNB14						
01	COMMSCC	NHSS-65C-R2B	185	189	55	0	0	15.818	62	240.61						WQGA718 WQGA959		
01	COMMSCC	NHSS-65C-R2B	185	189	55	0	0	15.818	62	240.61						WQGA718 WQGA959		
03	ANDREW	NH-65C-R2B	185	189	295	0	0	13.96	64.75	95.61	WQJQ692							
0001	COMMSCC	NH-65C-R2B	185	189	55	0	0	13.505	60.5	344.4		KNKNB14						
01	ANDREW	NH-65C-R2B	185	189	55	0	0	13.96	64.75	95.61	WQJQ692							
0003	COMMSCC	NH-65C-R2B	185	189	295	0	0	13.505	60.5	344.4		KNKNB14						
02	COMMSCC	NHSS-65C-R2B	185	189	175	0	0	15.818	62	240.61						WQGA718 WQGA959		
02	ANDREW	NH-65C-R2B	185	189	175	0	0	13.96	64.75	95.61	WQJQ692							
03	COMMSCC	NHSS-65C-R2B	185	189	295	0	0	15.818	62	240.61						WQGA718 WQGA959		
01	COMMSCC	NHSS-65C-R2B	185	189	55	4	0	14.558	65	90.01								
0002	COMMSCC	NH-65C-R2B	185	189	175	0	0	13.505	60.5	344.4		KNKNB14						
02	COMMSCC	NHSS-65C-R2B	185	189	175	0	0	15.818	62	240.61						WQGA718 WQGA959		
02	COMMSCC	NH-65C-R2B	185	189	175	0	0	13.505	60.5	344.4		KNKNB14						
01	COMMSCC	NH-65C-R2B	185	189	55	0	0	13.505	60.5	344.4		KNKNB14						
03	COMMSCC	NHSS-65C-R2B	185	189	295	0	0	15.818	62	240.61						WQGA718 WQGA959		
03	COMMSCC	NHSS-65C-R2B	185	189	295	0	0	15.818	62	240.61						WQGA718 WQGA959		



WIRHF213	Bowling Green, KY	UU	PEA112	M3	KY	Monroe	Straight Path LLC	Yes	100,000	3290,000-3799,000	.000-.000	.000-.000	.000-.000	.000-.000	.000-.000	.000-.000	33,28	Active	Yes
WIRHF214	Bowling Green, KY	UU	PEA112	M4	KY	Monroe	Straight Path LLC	Yes	100,000	3799,000-3899,000	.000-.000	.000-.000	.000-.000	.000-.000	.000-.000	.000-.000	33,28	Active	Yes
WIRHF215	Bowling Green, KY	UU	PEA112	M5	KY	Monroe	Straight Path LLC	Yes	100,000	3899,000-3999,000	.000-.000	.000-.000	.000-.000	.000-.000	.000-.000	.000-.000	33,28	Active	Yes
WIRHF216	Bowling Green, KY	UU	PEA112	M6	KY	Monroe	Straight Path LLC	Yes	100,000	3999,000-4099,000	.000-.000	.000-.000	.000-.000	.000-.000	.000-.000	.000-.000	33,28	Active	Yes
WIRHF217	Bowling Green, KY	UU	PEA112	M7	KY	Monroe	Straight Path LLC	Yes	100,000	4099,000-4199,000	.000-.000	.000-.000	.000-.000	.000-.000	.000-.000	.000-.000	33,28	Active	Yes
WIRHF218	Bowling Green, KY	UU	PEA112	M8	KY	Monroe	Straight Path LLC	Yes	100,000	4199,000-4299,000	.000-.000	.000-.000	.000-.000	.000-.000	.000-.000	.000-.000	33,28	Active	Yes
WIRHF219	Bowling Green, KY	UU	PEA112	M9	KY	Monroe	Straight Path LLC	Yes	100,000	4299,000-4399,000	.000-.000	.000-.000	.000-.000	.000-.000	.000-.000	.000-.000	33,28	Active	Yes
WIRAM746	Bowling Green, KY	WT	PEA112	A	KY	Monroe	Other Partnership	Yes	10,000	617,000-622,000	653,000-688,000	.000-.000	.000-.000	.000-.000	.000-.000	.000-.000	33,28	Active	Yes
WQIZ268	Kentucky S - Barren	WY	CMAA47	B	KY	Monroe	Other Partnership	Yes	12,000	704,000-710,000	734,000-740,000	.000-.000	.000-.000	.000-.000	.000-.000	.000-.000	33,28	Active	Yes
WIPWU920	Kentucky S - Barren	WZ	CMAA47	C	KY	Monroe	Other Partnership	Yes	12,000	710,000-716,000	740,000-746,000	.000-.000	.000-.000	.000-.000	.000-.000	.000-.000	33,28	Active	Yes



# Hexport & 10 Port LTE-700/850/AWS/PCS Antennas with RRH, CBRS & C-Band

Site Name:

CK Tompkinsville III

RF Engineer:

Faiz Mohammed

Phone Number:

317-992-8821

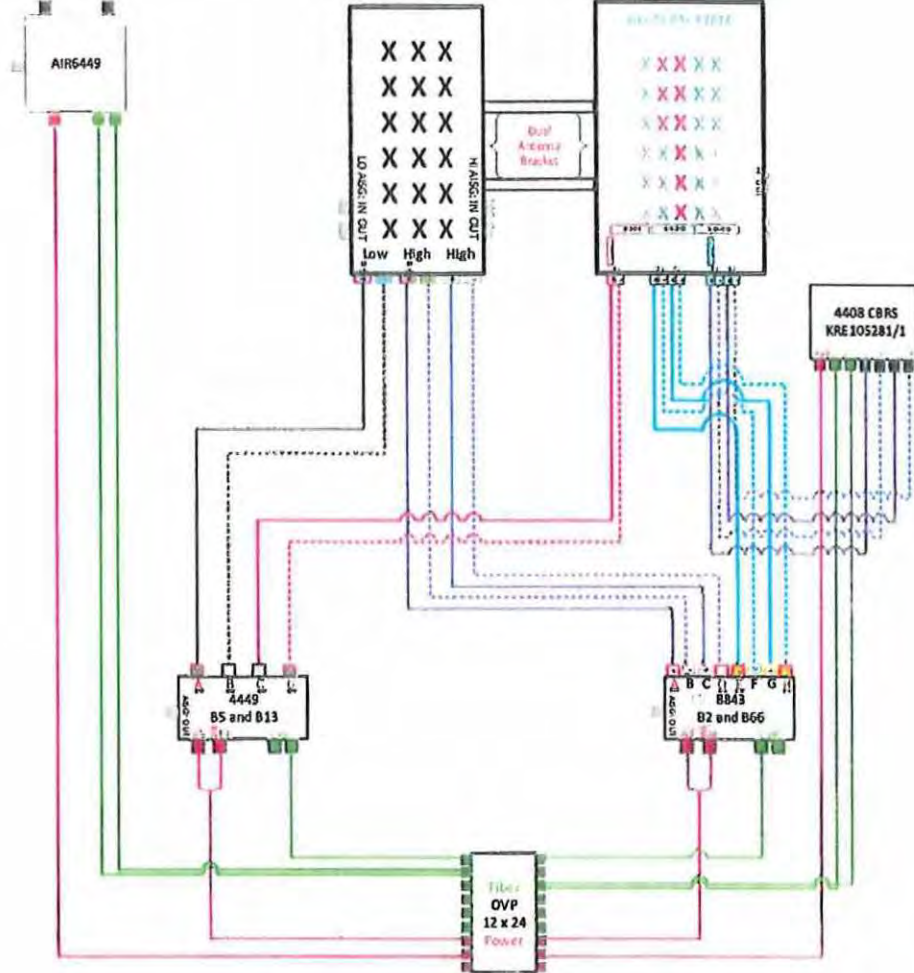
POS A/E/I  
Unused

POS B/F/J  
C-Band

POS C/G/K  
LTE-700 /850/ PCS

POS C'/G'/K'  
LTE-700 /850/ AWS

POS D/H/L  
Unused



Hatch Plate



VzW Site Name: CK Tompkinsville  
Location Code: 689717  
Atty: Coots Henke & Wheeler, P.C.: Daniel E. Coots

**EXHIBIT "C"**

**SURVEY**









## Notification list

GRAVES KELBY & KAYLIN  
GRAVES KEGAN  
3033 EBENEZER ROAD  
TOMPKINSVILLE KY 42167

BUTLER BERT  
3199 POPLAR LOG CHURCH ROAD  
TOMPKINSVILLE, KY 42167

BUTLER BERT  
3199 POPLAR LOG CHURCH ROAD  
TOMPKINSVILLE, KY 42167

BUTLER MARK & ETAL  
75 OLD GLASGOW ROAD  
TOMPKINSVILLE, KY 42167

THOMPSON ALBERT & MATTIE  
774 BILL BUTLER ROAD  
TOMPKINSVILLE, KY 42167

BIGGERSTAFF JOHNNY & KAYE  
1441 CENTER POINT ROAD  
TOMPKINSVILLE, KY 42167

DIAZ JAVIER CATALAN (LIFE ESTATE)  
KAREN, ANGEL & KATIE CATALAN  
696 BILL BUTLER ROAD  
TOMPKINSVILLE, KY 42167

ROMPALA BOBBY, SUSAN CLARKSON, ETAL  
C/O BOBBY ROMPALA  
656 BILL BUTLER ROAD  
TOMPKINSVILLE, KY 42167

CATALAN ANGEL  
C/O JAVIER CATALAN DIAZ  
696 BILL BUTLER ROAD  
TOMPKINSVILLE, KY 42167-

PROFFITT MICHAEL R & PAULA  
585 BILL BUTLER ROAD  
TOMPKINSVILLE, KY 42167-

GRAVES WILBUR  
8347 COUNTY HOUSE ROAD  
TOMPKINSVILLE, KY 42167-7605

GRAVES WILBUR  
8347 COUNTY HOUSE ROAD  
TOMPKINSVILLE, KY 42167-7605

GRAVES WILBUR  
8347 COUNTY HOUSE ROAD  
TOMPKINSVILLE, KY 42167-7605

GRAVES RICKY  
267 TIM LEE CARTER ROAD  
TOMPKINSVILLE, KY 42167

WILSON STEVIE JOE & DANETTA  
4279 COUNTY HOUSE ROAD  
TOMPKINSVILLE, KY 42167-

THE MAXIE L TURNER & SHELIA K  
TURNER  
REVOCABLE LIVING TRUST  
1600 G EMMERT ROAD  
TOMPKINSVILLE KY 42167

SHEFFIELD BILLY JOE  
256 SHEFFIELD RIDGE ROAD  
TOMPKINSVILLE, KY 42167

POPLAR LOG BAPTIST CHURCH  
POPLAR LOG ROAD  
TOMPKINSVILLE, KY 42167

STRODE JIMMY LOUIS  
3033 POPLAR LOG CHURCH ROAD  
TOMPKINSVILLE, KY 42167

CARTER CONNIE F  
3059 POPLAR LOG CHURCH ROAD  
TOMPKINSVILLE, KY 42167

BUTLER MARY ANN  
265 KYTE STREET  
COLUMBUS, IN 47201



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

July 17, 2022

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

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 on Popular Log Church Road, Tompkinsville, KY, 42167 (North Latitude: (36° 42' 24.13", West Longitude 85° 43' 17.68"). 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 2022-00220 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

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

Attorney for Applicant  
RLB/jdj  
enclosure



ClarkQuinn

www.clarkquinnlaw.com

**Russell L. Brown**  
Attorney at Law  
rbrown@clarkquinnlaw.com

**320 N. Meridian St., Ste. 1100**  
**Indianapolis, IN 46204**  
**(317) 637-1321 main**  
**(317) 687-2344 fax**

July 17, 2022

Via Certified Mail, Return Receipt Requested  
7021 2720 0001 4430 7099

Hon. Mitchell Page  
200 N. Main Street, Suite C  
Tompkinsville, KY 42167


RE: Notice of Proposal to Construct Wireless Communications Facility  
Kentucky Public Service Commission Docket No. 2022-00220  
Site Name: Tompkinsville

Dear Judge Page:

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 on Popular Log Church Road, Tompkinsville, KY, 42167 (North Latitude: (36° 42' 24.13", West Longitude 85° 43' 17.68"). 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 2022-0020 in any correspondence sent in connection with this matter.

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

Sincerely,  
Russell L. Brown  


Attorney for Applicant  
RLB/jdj  
enclosure

## SITE NAME: Tompkinsville 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 2022-00220 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 2022-00220 in your correspondence.



Robert B. Scott  
Charles R. Grahn  
Frank D. Otte\*  
John "Bart" Herriman  
William W. Gooden\*\*  
Michael P. Maxwell  
Russell L. Brown\*\*†  
Jennifer F. Perry  
Keith L. Beall  
N. Davey Neal  
Travis W. Cohron  
Maggie L. Sadler  
Kristin A. McIlwain  
Olivia A. Hess

VIA EMAIL: [admanager@tompkinsvillenews.com](mailto:admanager@tompkinsvillenews.com)

Tompkinsville News  
105 N. Main St.  
Tompkinsville, KY 42167

Land Use Consultant  
Elizabeth Bentz Williams, AICP

July 18, 2022

\*Also admitted in Montana  
†Also admitted in Kentucky  
\*\*Registered Civil Mediator

RE: Legal Notice Advertisement  
Site Name: Tompkinsville

To Whom it May Concern:

Please publish the following legal notice advertisement in the next available edition of the *Tompkinsville News*:

#### 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 on Popular Log Church Road, Tompkinsville, KY, 42167 (North Latitude: (36° 42' 24.13", West Longitude 85° 43' 17.68"). 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 2022-00220 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](mailto:ebw@clarkquinnlaw.com). Please call me at (317) 637-1321 if you have any questions. Thank you for your assistance.

Sincerely

A handwritten signature in cursive script that reads 'Elizabeth Bentz Williams'.

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

**Search Area Map of Proposed Site(s)**





March 15, 2022

RE: Proposed Verizon Wireless Communications Facility  
Site Name: CK Tompkinsville III

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 Tompkinsville III and its compliance to RF emission standards as set by FCC. The Tompkinsville III cell site is necessary to achieve coverage and capacity needs in the Tompkinsville area, along County House Rd, Old Glasgow Rd and to the surrounding residential areas. This site is necessary to provide this coverage and capacity that cannot be established in any other manner. Tompkinsville III will provide needed capacity to offload the Tomkinsville and Tompkinsville 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 Tompkinsville III 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 Tompkinsville III 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.

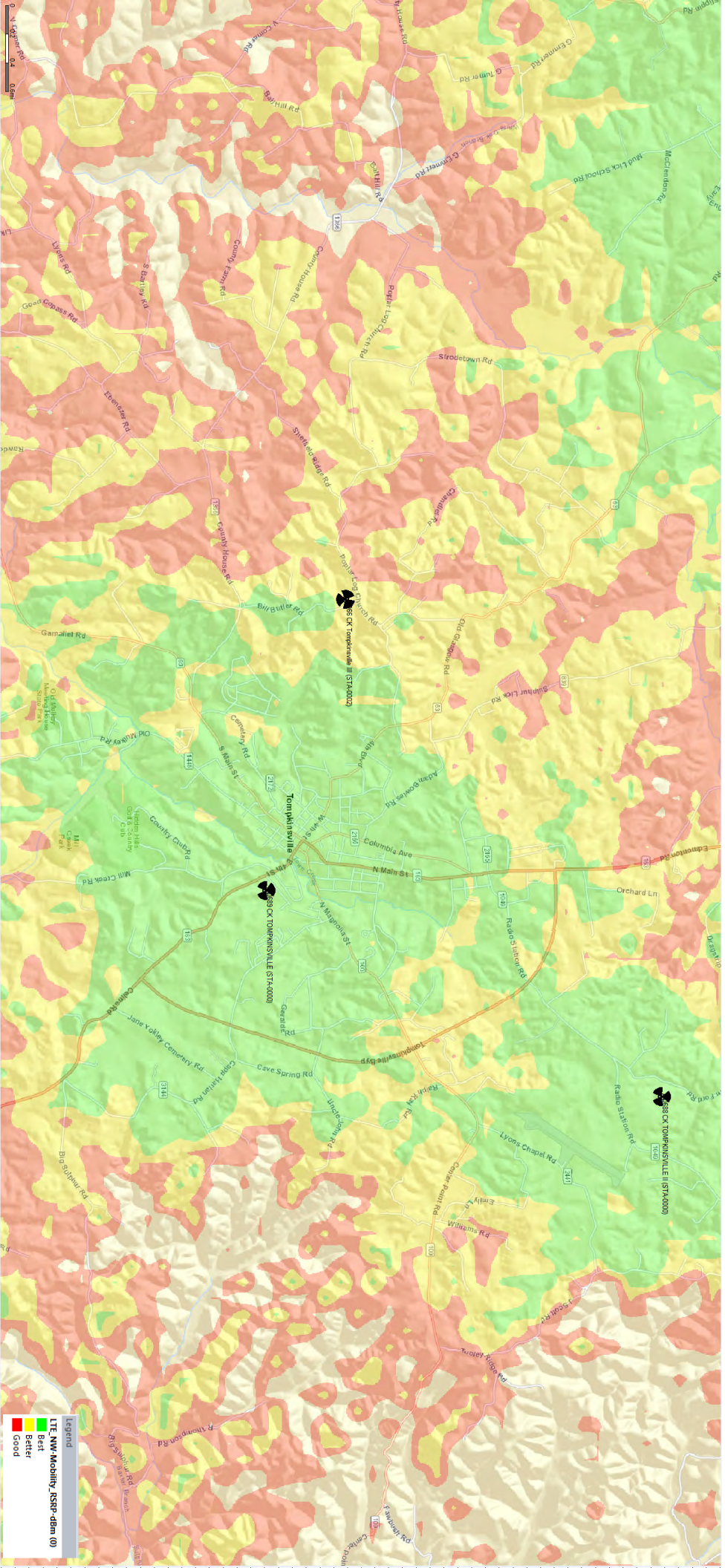
Sincerely,



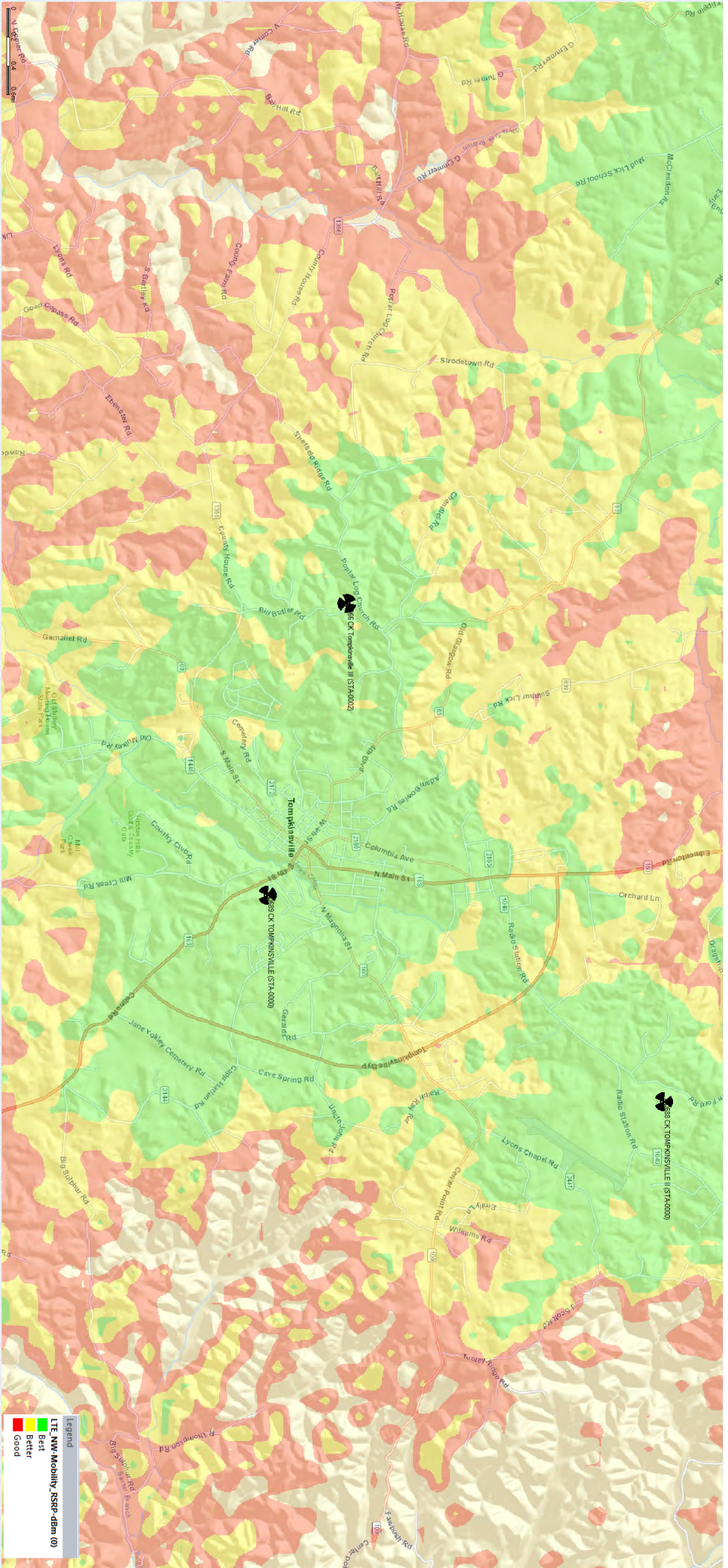
A handwritten signature in black ink, appearing to read "Gordon Snyder". The signature is written in a cursive style with a long horizontal tail extending to the right.

Gordon Snyder  
RF Engineer, Verizon Wireless

# Current Coverage Without CK Tompkinsville III



# Coverage With Tompkinsville III



**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  
Construction Manager  
Verizon Wireless  
2421 Holloway Road  
Louisville, KY 40299

Gordan Snyder  
RF Engineer  
Verizon Wireless  
2421 Holloway Road Louisville, KY 40299