

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

In the Matter of:

THE APPLICATION OF)
NEW CINGULAR WIRELESS PCS, LLC,)
A DELAWARE LIMITED LIABILITY COMPANY,)
D/B/A AT&T MOBILITY)
AND UNITI TOWERS LLC, A DELAWARE)
LIMITED LIABILITY COMPANY)
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC) CASE NO.: 2020-00300
CONVENIENCE AND NECESSITY TO CONSTRUCT)
A WIRELESS COMMUNICATIONS FACILITY)
IN THE COMMONWEALTH OF KENTUCKY)
IN THE COUNTY OF LIVINGSTON)

SITE NAME: LAKE CITY / LUKA

* * * * *

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

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Uniti Tower LLC, a Delaware limited liability company (“Applicants”), by counsel, pursuant to (i) KRS §§ 278.020, 278.040, 278.650, 278.665, and other statutory authority, and the rules and regulations applicable thereto, and (ii) the Telecommunications Act of 1996, respectfully 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 Applicants with wireless communications services.

In support of this Application, Applicants respectfully provide and states the following

information:

1. The complete names and addresses of the Applicants are: New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility, having an address of Meidinger Tower, 462 S. 4th Street, Suite 2400, Louisville, Kentucky 40202 and Uniti Tower LLC, a Delaware limited liability company having an address of 10802 Executive Center Drive, Benton Building, Suite 300, Little Rock, Arkansas 72211.

2. Applicants propose construction of an antenna tower for communications services, which is to be located in an area outside the jurisdiction of a planning commission, and 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.

3. AT&T Mobility is a limited liability company organized in the State of Delaware on October 20, 1994. Uniti Towers is a limited liability company organized in the State of Delaware on December 2, 2015.

4. Applicants attest that they are in good standing in the state in which they are organized and further state that they are authorized to transact business in Kentucky.

5. The Certificates of Authority filed with the Kentucky Secretary of State for both Applicants are attached as part of **Exhibit A** pursuant to 807 KAR 5:001: Section 14(3).

6. AT&T Mobility operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. Copies of AT&T Mobility's FCC licenses to provide wireless services are attached to this Application or described as part of **Exhibit A**, and the facility will be constructed and operated in

accordance with applicable FCC regulations.

7. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve AT&T Mobility's services to an area currently not served or not adequately served by AT&T Mobility by increasing coverage or capacity and thereby enhancing the public's access to innovative and competitive wireless communications services. The WCF will provide a necessary link in AT&T Mobility's communications network that is designed to meet the increasing demands for wireless services in Kentucky's wireless communications service area. The WCF is an integral link in AT&T Mobility's network design that must be in place to provide adequate coverage to the service area.

8. To address the above-described service needs, Applicants propose to construct a WCF at 880 Reed Road, Grand Rivers, KY 42045 (37° 03' 29.38" North latitude, 88° 14' 10.91" 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 J.R. Robertson and Nellie J. Robertson pursuant to a deed recorded at Deed Book 99, Page 137 in the office of the County Clerk. The proposed WCF will consist of a 255-foot tall tower, with an approximately 12-foot tall lightning arrestor attached at the top, for a total height of 267-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of AT&T Mobility's radio electronics equipment and appurtenant equipment. The Applicants' equipment cabinet or shelter will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The WCF compound will be fenced and all access gate(s) will be secured. A description of

the manner in which the proposed WCF will be constructed is attached as **Exhibit B** and **Exhibit C**.

9. A list of utilities, corporations, or persons with whom the proposed WCF is likely to compete is attached as **Exhibit D**.

10. 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 AT&T Mobility's antennas has also been included as part of **Exhibit B**.

11. 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 C**.

12. Applicants have considered the likely effects of the installation of the proposed WCF on nearby land uses and values and have 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 AT&T Mobility's antennas on an existing structure. When suitable towers or structures exist, AT&T Mobility's attempts to co-locate on existing structures such as communications towers or other structures capable of supporting AT&T Mobility's facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site.

13. A copy of the Determination of No Hazard to Air Navigation issued by the Federal Aviation Administration ("FAA") is attached as **Exhibit E**.

14. A copy of the approval issued by the Kentucky Airport Zoning Commission

("KAZC") is attached as **Exhibit F**.

15. A geotechnical engineering firm has performed soil boring(s) and subsequent geotechnical engineering studies at the WCF site. A copy of the geotechnical engineering report, signed and sealed by a professional engineer registered in the Commonwealth of Kentucky, is attached as **Exhibit G**. The name and address of the geotechnical engineering firm and the professional engineer registered in the Commonwealth of Kentucky who supervised the examination of this WCF site are included as part of this exhibit.

16. Clear directions to the proposed WCF site from the County seat are attached as **Exhibit H**. The name and telephone number of the preparer of **Exhibit H** are included as part of this exhibit.

17. Uniti Towers LLC, pursuant to a written agreement, has acquired the right to use the WCF site and associated property rights. A copy of the agreements or abbreviated agreements recorded with the County Clerk are attached as **Exhibit I**.

18. 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 C** 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.

19. The Construction Manager for the proposed facility is Jeremy Culpepper and the identity and qualifications of each person directly responsible for design and construction of the proposed tower are contained in **Exhibits B & C**.

20. As noted on the Survey attached as part of **Exhibit B**, the surveyor has determined that the site is not within any flood hazard area.

21. **Exhibit B** 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 B**.

22. Applicants have 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 has been 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 sent by certified mail to each landowner are attached as **Exhibit J** and **Exhibit K**, respectively.

23. Applicants have notified the applicable County Judge/Executive by certified mail, return receipt requested, of the proposed construction. This notice included the PSC docket number under which the application will be processed and informed the County Judge/Executive of his/her right to request intervention. A copy of this notice is attached as **Exhibit L**.

24. 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 M**. 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 part of **Exhibit M**.

25. The general area where the proposed facility is to be located is rural and primarily agricultural in character.

26. The process that was used by AT&T Mobility'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. AT&T Mobility'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 Applicants when searching for sites for its antennas that would provide the coverage deemed necessary by AT&T Mobility. 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 N**.

27. The tower must be located at the proposed location and proposed height to provide necessary service to wireless communications users in the subject area.

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

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

David A. Pike
Pike Legal Group, PLLC
1578 Highway 44 East, Suite 6
P. O. Box 369
Shepherdsville, KY 40165-0369
Telephone: (502) 955-4400
Telefax: (502) 543-4410
Email: dpike@pikelegal.com

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,



David A. Pike
Pike Legal Group, PLLC
1578 Highway 44 East, Suite 6
P. O. Box 369
Shepherdsville, KY 40165-0369
Telephone: (502) 955-4400
Telefax: (502) 543-4410
Email: dpike@pikelegal.com
Attorney for Applicants

LIST OF EXHIBITS

- A - Certificate of Authority & FCC License Documentation
- B - Site Development Plan:
 - 500' Vicinity Map
 - Legal Descriptions
 - Flood Plain Certification
 - Site Plan
 - Vertical Tower Profile
- C - Tower and Foundation Design
- D - Competing Utilities, Corporations, or Persons List
- E - FAA
- F - Kentucky Airport Zoning Commission
- G - Geotechnical Report
- H - Directions to WCF Site
- I - Copy of Real Estate Agreement
- J - Notification Listing
- K - Copy of Property Owner Notification
- L - Copy of County Judge/Executive Notice
- M - Copy of Posted Notices and Newspaper Notice Advertisement
- N - Copy of Radio Frequency Design Search Area

EXHIBIT A
CERTIFICATE OF AUTHORITY & FCC LICENSE
DOCUMENTATION

Commonwealth of Kentucky
Alison Lundergan Grimes, Secretary of State

Alison Lundergan Grimes
Secretary of State
P. O. Box 718
Frankfort, KY 40602-0718
(502) 564-3490
<http://www.sos.ky.gov>

Certificate of Authorization

Authentication number: 216299
Visit <https://app.sos.ky.gov/ftshow/certvalidate.aspx> to authenticate this certificate.

I, Alison Lundergan Grimes, Secretary of State of the Commonwealth of Kentucky, do hereby certify that according to the records in the Office of the Secretary of State,

NEW CINGULAR WIRELESS PCS, LLC

, a limited liability company authorized under the laws of the state of Delaware, is authorized to transact business in the Commonwealth of Kentucky, and received the authority to transact business in Kentucky on October 14, 1999.

I further certify that all fees and penalties owed to the Secretary of State have been paid; that an application for certificate of withdrawal has not been filed; and that the most recent annual report required by KRS 14A.6-010 has been delivered to the Secretary of State.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal at Frankfort, Kentucky, this 28th day of May, 2019, in the 227th year of the Commonwealth.



Alison Lundergan Grimes
Alison Lundergan Grimes
Secretary of State
Commonwealth of Kentucky
216299/0481848



COMMONWEALTH OF KENTUCKY
ALISON LUNDERGAN GRIMES, SECRETARY OF STATE

0972004.06 mstratton
ADD
Alison Lundergan Grimes
Kentucky Secretary of State
Received and Filed:
1/3/2017 3:10 PM
Fee Receipt: \$90.00

Division of Business Filings Business Filings PO Box 718 Frankfort, KY 40602 (502) 564-3490 www.sos.ky.gov	Certificate of Authority (Foreign Business Entity)	FBE
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Pursuant to the provisions of KRS 14A and KRS 271B, 273, 274, 275, 362 and 386 the undersigned hereby applies for authority to transact business in Kentucky on behalf of the entity named below and, for that purpose, submits the following statements:

1. The entity is a : profit corporation (KRS 271B) nonprofit corporation (KRS 273) professional service corporation (KRS 274)
 business trust (KRS 386) limited liability company (KRS 275) professional limited liability company (KRS 275)
 limited partnership (KRS 362).

2. The name of the entity is Uniti Towers LLC
(The name must be identical to the name on record with the Secretary of State.)

3. The name of the entity to be used in Kentucky is (if applicable): _____
(Only provide if "real name" is unavailable for use; otherwise, leave blank.)

4. The state or country under whose law the entity is organized is Delaware

5. The date of organization is 12/2/2015 and the period of duration is _____
(If left blank, the period of duration is considered perpetual.)

6. The mailing address of the entity's principal office is
10802 Executive Center Drive, Benton Building, Suite 300 Little Rock AR 72211
Street Address City State Zip Code

7. The street address of the entity's registered office in Kentucky is
306 West Main Street - Suite 512 Frankfort KY 40601
Street Address (No P.O. Box Numbers) City State Zip Code

and the name of the registered agent at that office is C T Corporation System

8. The names and business addresses of the entity's representatives (secretary, officers and directors, managers, trustees or general partners):

Name	Street or P.O. Box	City	State	Zip Code
Daniel L. Heard	10802 Executive Center Drive, Benton Building, Suite 300	Little Rock	AR	72211
Kenneth Gunderman	10802 Executive Center Drive, Benton Building, Suite 300	Little Rock	AR	72211
Mark A. Wallace	10802 Executive Center Drive, Benton Building, Suite 300	Little Rock	AR	72211

9. If a professional service corporation, all the individual shareholders, not less than one half (1/2) of the directors, and all of the officers other than the secretary and treasurer are licensed in one or more states or territories of the United States or District of Columbia to render a professional service described in the statement of purposes of the corporation.

10. I certify that, as of the date of filing this application, the above-named entity validly exists under the laws of the jurisdiction of its formation.

11. If a limited partnership, it elects to be a limited liability limited partnership. Check the box if applicable:

12. If a limited liability company, check box if manager-managed:

13. 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)

[Signature] Keith Harvey, VP - Deputy General Counsel 12/30/2016
Signature of Authorized Representative Printed Name & Title Date

I, C T Corporation System, consent to serve as the registered agent on behalf of the business entity.
Type/Print Name of Registered Agent
[Signature] Tristan Emrich Assistant Secretary 12/30/2016
Signature of Registered Agent Printed Name Title Date

(09/15)

Delaware

The First State

Page 1

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "UNITI TOWERS LLC" IS DULY FORMED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE THIRTIETH DAY OF DECEMBER, A.D. 2016.

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



5896640 8300

SR# 20167345793

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

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

Authentication: 203613650

Date: 12-30-16

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: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign KNKN674	File Number
Radio Service CL - Cellular	
Market Numer CMA444	Channel Block A
Sub-Market Designator 0	

FCC Registration Number (FRN): 0003291192

Market Name Kentucky 2 - Union										
<table border="1"> <thead> <tr> <th>Grant Date</th> <th>Effective Date</th> <th>Expiration Date</th> <th>Five Yr Build-Out Date</th> <th>Print Date</th> </tr> </thead> <tbody> <tr> <td>08-30-2011</td> <td>08-31-2018</td> <td>10-01-2021</td> <td></td> <td></td> </tr> </tbody> </table>	Grant Date	Effective Date	Expiration Date	Five Yr Build-Out Date	Print Date	08-30-2011	08-31-2018	10-01-2021		
Grant Date	Effective Date	Expiration Date	Five Yr Build-Out Date	Print Date						
08-30-2011	08-31-2018	10-01-2021								

Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
2	37-13-06.1 N	087-26-55.2 W	190.8	74.7	1232468
Address: 2837 Mortons Gap Road (76132)					
City: Nortonville County: HOPKINS State: KY Construction Deadline:					

Antenna: 1	Maximum Transmitting ERP in Watts:	0	45	90	135	180	225	270	315
Azimuth(from true north)		0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	140.820	119.600	113.700	121.000	115.700	97.100	96.400	79.600	108.500
Transmitting ERP (watts)	11.049	36.274	32.141	6.281	0.353	0.100	0.101	0.947	
Antenna: 2	Maximum Transmitting ERP in Watts:	0	45	90	135	180	225	270	315
Azimuth(from true north)		0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	140.820	119.600	113.700	121.000	115.700	97.100	96.400	79.600	108.500
Transmitting ERP (watts)	0.148	0.151	2.758	31.484	73.890	34.411	3.370	0.147	
Antenna: 3	Maximum Transmitting ERP in Watts:	0	45	90	135	180	225	270	315
Azimuth(from true north)		0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	140.820	119.600	113.700	121.000	115.700	97.100	96.400	79.600	108.500
Transmitting ERP (watts)	12.714	0.940	0.099	0.100	0.397	5.201	29.662	38.742	

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: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN674

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
6	37-26-08.9 N	087-59-07.1 W	211.2	95.7	1043416

Address: 614 Rosebud Church Road (76137)

City: STURGIS County: CRITTENDEN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	181.700	184.800	184.200	171.500	143.100	138.000	160.700	151.100
Transmitting ERP (watts)	140.061	182.986	201.464	78.939	26.872	10.497	13.914	31.520

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)	181.700	184.800	184.200	171.500	143.100	138.000	160.700	151.100
Transmitting ERP (watts)	0.244	15.054	52.062	103.948	68.767	110.549	40.818	28.256

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	181.700	184.800	184.200	171.500	143.100	138.000	160.700	151.100
Transmitting ERP (watts)	90.126	27.369	33.582	15.535	16.134	77.108	101.371	97.219

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
11	37-39-06.2 N	087-55-17.8 W	189.6	103.6	1043419

Address: 190 ED RICKETTS ROAD (76131)

City: MORGANFIELD County: UNION State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	165.200	160.200	158.600	145.000	166.800	157.700	167.000	160.800
Transmitting ERP (watts)	1.622	2.069	2.213	0.865	0.145	0.100	0.105	0.346

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	165.200	160.200	158.600	145.000	166.800	157.700	167.000	160.800
Transmitting ERP (watts)	0.510	5.501	44.360	185.434	245.411	184.244	37.569	15.212

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	165.200	160.200	158.600	145.000	166.800	157.700	167.000	160.800
Transmitting ERP (watts)	107.554	32.662	40.122	18.648	19.229	91.715	121.062	115.484

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN674

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
12	36-48-32.0 N	087-56-12.0 W	164.6	78.0	1020835

Address: 7220 Canton Road (76143)

City: CANTON County: TRIGG State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	94.900	96.900	82.100	74.200	105.800	97.600	103.000	117.500
Transmitting ERP (watts)	83.428	280.249	199.164	28.014	3.586	0.574	1.287	6.142

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	94.900	96.900	82.100	74.200	105.800	97.600	103.000	117.500
Transmitting ERP (watts)	0.327	20.152	69.995	141.328	92.475	148.542	55.193	37.997

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	94.900	96.900	82.100	74.200	105.800	97.600	103.000	117.500
Transmitting ERP (watts)	60.723	6.432	2.249	0.857	1.966	43.153	209.513	282.936

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
16	37-38-32.0 N	087-31-16.3 W	117.3	128.3	1215065

Address: 2600 U S HIGHWAY 41 NORTH (76145)

City: ROBARDS County: WEBSTER State: KY Construction Deadline: 12-13-2014

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.000	79.900	83.900	94.200	79.700	65.300	76.600	84.400
Transmitting ERP (watts)	74.559	254.016	181.766	25.285	3.250	0.514	1.146	5.470

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)	82.000	79.900	83.900	94.200	79.700	65.300	76.600	84.400
Transmitting ERP (watts)	0.604	0.911	15.830	126.137	297.959	109.909	11.178	2.898

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.000	79.900	83.900	94.200	79.700	65.300	76.600	84.400
Transmitting ERP (watts)	55.266	5.851	2.046	0.760	1.729	38.513	188.055	257.777

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN674

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
18	37-14-55.1 N	088-20-42.2 W	175.8	108.8	1231318

Address: 708 Mitchell Road (76153)

City: Burna County: LIVINGSTON State: KY Construction Deadline: 12-13-2014

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	103.700	135.300	134.600	160.200	145.200	154.500	135.200	128.600
Transmitting ERP (watts)	45.066	148.806	105.252	14.601	1.889	0.303	0.684	3.302

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	103.700	135.300	134.600	160.200	145.200	154.500	135.200	128.600
Transmitting ERP (watts)	0.360	0.556	9.612	74.944	174.640	62.865	6.468	1.670

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	103.700	135.300	134.600	160.200	145.200	154.500	135.200	128.600
Transmitting ERP (watts)	64.517	19.549	24.038	11.103	11.663	54.460	72.252	68.527

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
19	36-55-26.0 N	087-49-59.4 W	145.1	86.6	1244917

Address: 699 BUSH ROAD (76154)

City: CADIZ County: TRIGG State: KY Construction Deadline: 12-13-2014

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	69.300	79.700	74.700	83.600	83.700	107.800	90.100	68.300
Transmitting ERP (watts)	178.878	232.715	257.641	101.135	34.491	13.229	17.593	39.790

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	69.300	79.700	74.700	83.600	83.700	107.800	90.100	68.300
Transmitting ERP (watts)	0.637	0.967	16.790	133.407	314.491	113.888	11.612	3.032

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	69.300	79.700	74.700	83.600	83.700	107.800	90.100	68.300
Transmitting ERP (watts)	57.732	6.107	2.140	0.804	1.870	40.392	196.166	269.783

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
20	37-11-26.3 N	087-33-12.6 W	152.1	77.4	1246381

Address: Gilliland Street (76156)

City: St. Charles County: HOPKINS State: KY Construction Deadline: 12-13-2014

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
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Antenna Height AAT (meters)	85.000	86.700	95.000	78.400	73.600	76.700	86.700	87.100
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Transmitting ERP (watts)	203.086	265.427	293.723	115.336	39.266	15.161	20.131	44.941
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Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
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Antenna Height AAT (meters)	85.000	86.700	95.000	78.400	73.600	76.700	86.700	87.100
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Transmitting ERP (watts)	0.343	21.692	75.219	151.412	99.682	160.909	59.465	41.743
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Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
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Antenna Height AAT (meters)	85.000	86.700	95.000	78.400	73.600	76.700	86.700	87.100
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Transmitting ERP (watts)	141.930	28.758	15.209	5.387	9.463	101.790	279.413	329.510
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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
22	36-50-58.2 N	087-50-48.6 W	153.9	79.2	1267262

Address: 80 Old Dover St (104037)
City: Cadiz County: TRIGG State: KY Construction Deadline: 12-13-2014

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
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Antenna Height AAT (meters)	82.800	82.800	93.000	77.800	59.600	77.800	101.200	79.100
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Transmitting ERP (watts)	18.872	58.121	45.266	7.066	0.416	0.117	0.138	1.803
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Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
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Antenna Height AAT (meters)	82.800	82.800	93.000	77.800	59.600	77.800	101.200	79.100
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Transmitting ERP (watts)	0.725	1.296	23.184	191.272	358.769	140.039	7.340	1.443
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Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
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Antenna Height AAT (meters)	82.800	82.800	93.000	77.800	59.600	77.800	101.200	79.100
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Transmitting ERP (watts)	68.359	2.979	0.698	0.700	4.214	57.185	271.670	319.705
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Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN674

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
23	37-03-22.7 N	088-26-49.1 W	128.9	110.9	1039771

Address: 1229 US Highway 60 (101020)
 City: LEDBETTER County: LIVINGSTON State: KY Construction Deadline: 12-13-2014

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	102.900	82.200	104.500	91.900	96.800	102.300	107.600	103.500
Transmitting ERP (watts)	54.977	122.838	60.144	6.545	0.429	0.247	0.264	7.232

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	102.900	82.200	104.500	91.900	96.800	102.300	107.600	103.500
Transmitting ERP (watts)	0.173	0.486	7.193	42.880	59.119	18.759	1.594	0.210

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	102.900	82.200	104.500	91.900	96.800	102.300	107.600	103.500
Transmitting ERP (watts)	35.020	2.113	0.624	0.665	7.469	90.508	311.698	261.190

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
24	37-38-13.3 N	087-38-10.0 W	159.1	79.2	1267707

Address: 465 State Rt 56 East (106265)
 City: Sebree County: WEBSTER State: KY Construction Deadline: 12-13-2014

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	105.000	105.100	116.800	107.900	101.900	98.200	108.100	108.900
Transmitting ERP (watts)	84.996	250.740	177.382	18.902	1.480	0.503	0.510	7.043

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	105.000	105.100	116.800	107.900	101.900	98.200	108.100	108.900
Transmitting ERP (watts)	0.535	0.947	17.057	141.483	263.966	103.686	5.459	1.065

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	105.000	105.100	116.800	107.900	101.900	98.200	108.100	108.900
Transmitting ERP (watts)	50.859	2.208	0.517	0.516	3.059	41.748	201.613	236.408

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN674

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
25	37-25-05.2 N	087-29-33.7 W	157.6	91.4	1218437

Address: 700 Sunset Road (76139)

City: Hanson County: HOPKINS State: KY Construction Deadline: 12-13-2014

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	101.000	117.900	109.900	106.600	89.000	96.000	86.200	96.100
Transmitting ERP (watts)	226.434	210.842	258.284	142.431	66.542	42.878	39.508	78.904

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	101.000	117.900	109.900	106.600	89.000	96.000	86.200	96.100
Transmitting ERP (watts)	0.317	1.779	10.365	29.781	29.842	34.388	7.949	2.571

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	101.000	117.900	109.900	106.600	89.000	96.000	86.200	96.100
Transmitting ERP (watts)	196.098	76.485	83.392	29.118	37.964	175.475	241.895	220.669

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
26	36-55-17.0 N	088-05-48.0 W	178.0	154.6	1044000

Address: 9659 Trace Rd (112832)

City: GRAND RIVERS County: LYON State: KY Construction Deadline: 12-13-2014

Antenna: 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	129.300	134.100	138.000	120.200	146.100	139.600	133.300
Transmitting ERP (watts)	111.221	324.639	227.876	24.201	1.923	0.650	0.675	9.306

Antenna: 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	129.300	134.100	138.000	120.200	146.100	139.600	133.300
Transmitting ERP (watts)	0.698	1.253	22.511	183.957	343.394	132.128	7.021	1.377

Antenna: 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	129.300	134.100	138.000	120.200	146.100	139.600	133.300
Transmitting ERP (watts)	65.053	2.841	0.672	0.676	4.089	54.516	261.799	304.293

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN674

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
27	37-16-31.3 N	088-13-54.9 W	182.9	78.9	1276270

Address: Baker Road (109705)

City: Salem County: LIVINGSTON State: KY Construction Deadline: 12-13-2014

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	114.600	84.000	79.200	116.200	139.200	133.000	101.800	118.000
Transmitting ERP (watts)	38.924	137.255	114.557	20.344	0.969	0.273	0.287	2.696

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	114.600	84.000	79.200	116.200	139.200	133.000	101.800	118.000
Transmitting ERP (watts)	0.142	0.151	2.797	30.883	70.740	32.393	3.173	0.142

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	114.600	84.000	79.200	116.200	139.200	133.000	101.800	118.000
Transmitting ERP (watts)	42.248	2.712	0.290	0.346	1.143	17.493	109.449	141.842

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
29	37-45-39.9 N	087-56-10.8 W	122.2	78.3	1277118

Address: 2400 Hill Top Rd (113354)

City: Uniontown County: UNION State: KY Construction Deadline: 12-13-2014

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	89.600	89.400	80.800	71.800	68.700	71.100	83.600	91.500
Transmitting ERP (watts)	85.207	249.259	175.535	18.698	1.475	0.504	0.518	7.133

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	89.600	89.400	80.800	71.800	68.700	71.100	83.600	91.500
Transmitting ERP (watts)	0.535	0.954	17.190	141.670	263.404	102.884	5.438	1.063

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	89.600	89.400	80.800	71.800	68.700	71.100	83.600	91.500
Transmitting ERP (watts)	19.637	1.846	0.193	0.291	1.262	14.269	70.022	83.440

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
30	37-41-42.3 N	087-51-18.4 W	132.6	94.5	1267058

Address: 3220 US HWY 60E (103405)

City: Morganfield County: UNION State: KY Construction Deadline: 12-13-2014

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	109.100	100.100	100.700	96.600	86.100	88.700	99.300	108.400
Transmitting ERP (watts)	106.976	314.584	221.567	23.581	1.860	0.633	0.650	8.963

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	109.100	100.100	100.700	96.600	86.100	88.700	99.300	108.400
Transmitting ERP (watts)	0.820	0.863	29.715	214.060	407.322	155.955	10.552	1.090

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	109.100	100.100	100.700	96.600	86.100	88.700	99.300	108.400
Transmitting ERP (watts)	49.939	3.203	0.746	0.511	3.999	39.761	205.788	245.836

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
32	37-31-26.3 N	087-30-04.9 W	154.8	61.0	

Address: 415 GOWER ROAD (76133)

City: SLAUGHTERS County: WEBSTER State: KY Construction Deadline: 12-13-2014

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	80.400	78.200	79.800	87.100	73.300	56.800	62.000	81.500
Transmitting ERP (watts)	145.839	137.853	173.595	96.532	34.529	25.525	31.352	46.907

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	80.400	78.200	79.800	87.100	73.300	56.800	62.000	81.500
Transmitting ERP (watts)	0.401	2.488	19.967	61.274	71.719	69.254	13.936	4.590

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	80.400	78.200	79.800	87.100	73.300	56.800	62.000	81.500
Transmitting ERP (watts)	187.925	53.508	38.931	14.790	21.959	144.147	284.024	296.932

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN674

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
33	37-12-46.3 N	087-39-41.5 W	175.0	80.8	1044198

Address: 4669 DAYLIGHT ROAD (76138)

City: DAWSON SPRINGS County: HOPKINS State: KY Construction Deadline: 12-13-2014

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	117.600	117.800	86.400	106.700	97.300	102.300	104.900	117.000
Transmitting ERP (watts)	163.523	304.158	300.409	80.103	19.811	4.884	7.700	23.633

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	117.600	117.800	86.400	106.700	97.300	102.300	104.900	117.000
Transmitting ERP (watts)	0.534	28.458	124.093	251.295	156.234	243.121	99.933	75.450

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)	117.600	117.800	86.400	106.700	97.300	102.300	104.900	117.000
Transmitting ERP (watts)	65.084	6.858	2.416	0.901	2.074	45.621	222.646	303.964

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
34	36-52-21.8 N	087-45-00.6 W	171.6	40.2	

Address: 5101 HOPKINSVILLE RD (76142)

City: CADIZ County: TRIGG State: KY Construction Deadline: 12-13-2014

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	61.300	39.800	55.100	58.400	63.600	61.500	78.600	58.600
Transmitting ERP (watts)	409.684	153.393	15.491	4.017	0.835	1.293	21.975	176.498

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	61.300	39.800	55.100	58.400	63.600	61.500	78.600	58.600
Transmitting ERP (watts)	0.605	18.273	97.570	290.196	262.860	286.449	82.832	46.273

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	61.300	39.800	55.100	58.400	63.600	61.500	78.600	58.600
Transmitting ERP (watts)	15.711	4.011	0.818	1.252	22.618	178.234	399.146	153.157

Control Points:

Control Pt. No. 1

Address: 1650 Lyndon Farms Court

City: LOUISVILLE County: State: KY Telephone Number: (502)329-4700

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN674

File Number:

Print Date:

Waivers/Conditions:

Commission approval of this application and the licenses contained therein are subject to the conditions set forth in the Memorandum Opinion and Order, adopted on December 29, 2006 and released on March 26, 2007, and revised in the Order on Reconsideration, adopted and released on March 26, 2007. See AT&T Inc. and BellSouth Corporation Application for Transfer of Control, WC Docket No. 06-74, Memorandum Opinion and Order, FCC 06-189 (rel. Mar. 26, 2007); AT&T Inc. and BellSouth Corporation, WC Docket No. 06-74, Order on Reconsideration, FCC 07-44 (rel. Mar. 26, 2007).

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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J. MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 1016
DALLAS, TX 75202

Call Sign KNLF251	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 06-02-2015	Effective Date 01-16-2020	Expiration Date 06-23-2025	Print Date
Market Number MTA026	Channel Block A	Sub-Market Designator 15	
Market Name Louisville-Lexington-Evansville			
1st Build-out Date 06-23-2000	2nd Build-out Date 06-23-2005	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

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: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNLF251

File Number:

Print Date:

This license is conditioned upon compliance with the provisions of Applications of AT&T Wireless Services, Inc. and Cingular Wireless Corporation For Consent to Transfer Control of Licenses and Authorizations, Memorandum Opinion and Order, FCC 04-255 (rel. Oct. 26, 2004).

Spectrum Lease Associated with this License. See Spectrum Leasing Arrangement Letter dated 12/06/2004 and File # 0001918512.

Commission approval of this application and the licenses contained therein are subject to the conditions set forth in the Memorandum Opinion and Order, adopted on December 29, 2006 and released on March 26, 2007, and revised in the Order on Reconsideration, adopted and released on March 26, 2007. See AT&T Inc. and BellSouth Corporation Application for Transfer of Control, WC Docket No. 06-74, Memorandum Opinion and Order, FCC 06-189 (rel. Mar. 26, 2007); AT&T Inc. and BellSouth Corporation, WC Docket No. 06-74, Order on Reconsideration, FCC 07-44 (rel. Mar. 26, 2007).

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNLF251

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign KNLH653	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 04-11-2017	Effective Date 08-31-2018	Expiration Date 04-28-2027	Print Date
Market Number BTA339	Channel Block F	Sub-Market Designator 0	
Market Name Paducah-Murray-Mayfield, KY			
1st Build-out Date 04-28-2002	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.

Grant conditioned upon consummation of the assignment of license to Banana Communications, LLC within 180 days of June 9, 2008, per Memorandum Opinion and Order, DA 08-1380, released June 9, 2008.

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: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNLH653

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign WPOI215	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 05-27-2015	Effective Date 08-31-2018	Expiration Date 06-23-2025	Print Date
Market Number MTA026	Channel Block A	Sub-Market Designator 17	
Market Name Louisville-Lexington-Evansville			
1st Build-out Date 10-23-2000	2nd Build-out Date 06-23-2005	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

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: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WPOI215

File Number:

Print Date:

This license is conditioned upon compliance with the provisions of Applications of AT&T Wireless Services, Inc. and Cingular Wireless Corporation For Consent to Transfer Control of Licenses and Authorizations, Memorandum Opinion and Order, FCC 04-255 (rel. Oct. 26, 2004).

Spectrum Lease Associated with this License. See Spectrum Leasing Arrangement Letter dated 12/06/2004 and File # 0001918579.

The Spectrum Leasing Arrangement, which became effective upon approval of application file number 0001918579, was terminated on 04/14/2005. Please see file number 0002135370.

Commission approval of this application and the licenses contained therein are subject to the conditions set forth in the Memorandum Opinion and Order, adopted on December 29, 2006 and released on March 26, 2007, and revised in the Order on Reconsideration, adopted and released on March 26, 2007. See AT&T Inc. and BellSouth Corporation Application for Transfer of Control, WC Docket No. 06-74, Memorandum Opinion and Order, FCC 06-189 (rel. Mar. 26, 2007); AT&T Inc. and BellSouth Corporation, WC Docket No. 06-74, Order on Reconsideration, FCC 07-44 (rel. Mar. 26, 2007).

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WPOI215

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign WPSJ971	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 06-03-2011	Effective Date 08-31-2018	Expiration Date 05-29-2021	Print Date
Market Number BTA339	Channel Block C	Sub-Market Designator 1	
Market Name Paducah-Murray-Mayfield, KY			
1st Build-out Date 05-29-2006	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. 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: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WPSJ971

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Copyright

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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign WQGD545	File Number
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003291192

Grant Date 12-18-2006	Effective Date 08-31-2018	Expiration Date 12-18-2021	Print Date
Market Number CMA444	Channel Block A	Sub-Market Designator 0	
Market Name Kentucky 2 - Union			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

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

Conditions:

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

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Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQGD545

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST. RM 1015
DALLAS, TX 75202

Call Sign WQGD606	File Number
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003291192

Grant Date 12-18-2006	Effective Date 02-20-2019	Expiration Date 12-18-2021	Print Date
Market Number BEA072	Channel Block C	Sub-Market Designator 0	
Market Name Paducah, KY-IL			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

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

Conditions:

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

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQGD606

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign WQGT878	File Number
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003291192

Grant Date 04-16-2007	Effective Date 08-31-2018	Expiration Date 04-16-2022	Print Date
Market Number BEA069	Channel Block C	Sub-Market Designator 0	
Market Name Evansville-Henderson, IN-KY-IL			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

Conditions:

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

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Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQGT878

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

EXHIBIT B

SITE DEVELOPMENT PLAN:

**500' VICINITY MAP
LEGAL DESCRIPTIONS
FLOOD PLAIN CERTIFICATION
SITE PLAN
VERTICAL TOWER PROFILE**

FA NUMBER: 15147593 / SITE ID: KYBGN2020

PROJECT TRACKING #: 10068325

SITE NAME: LUKA



880 REED ROAD
GRAND RIVERS, KY 42045
LIVINGSTON COUNTY

PROPOSED 255' SELF-SUPPORT TOWER

ZONING DRAWINGS



UNITI TOWERS
 LUKA
 FA# 15147593
 P# 10068325
 880 REED ROAD
 GRAND RIVERS, KY 42045
 LIVINGSTON COUNTY
 PROPOSED 255' SELF-SUPPORT TOWER

PROJECT SUMMARY

SITE NAME: LUKA
 SITE NUMBER: FA 15147593
 TAX MAP PROPERTY ID: 090-00-00-006.00
 SITE ADDRESS: 880 REED ROAD
 GRAND RIVERS, KY 42045

JURISDICTION: LIVINGSTON COUNTY

TOWER OWNER: UNITI TOWERS
 10802 EXECUTIVE CENTER DRIVE
 LITTLE ROCK, AR 72211

NAD83
 LATITUDE: 37.058161° N
 LONGITUDE: 88.236364° W

APPLICANT: NEW CINGULAR WIRELESS, PCS, LLC, A
 DELAWARE LIMITED LIABILITY COMPANY
 d/b/a AT&T MOBILITY
 MEIDINGER TOWER
 462 S/ 4th STREET, SUITE 2400
 LOUISVILLE, KY 40202

CO-APPLICANT: N/A
 OCCUPANCY TYPE: UNMANNED
 A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT
 FOR HUMAN HABITATION

LOCATION MAP



DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
1-2	SURVEY
C-1.0	500' RADIUS & ADJOINER'S DRAWING
C-1.1	OVERALL ADJOINER'S DRAWING
C-2	OVERALL SITE LAYOUT
C-3	ENLARGED COMPOUND LAYOUT
C-4	TOWER ELEVATION

DESIGN INFORMATION

A&E FIRM: B+T GROUP
 840 E. McKELLIPS ROAD,
 BUILDING 2, SUITE 108
 MESA, AZ 85203
 MIKE A. SPEEDIE, PE
 (918) 587-4630

ELECTRIC: JACKSON PURCHASE
 PROVIDER: 270-442-7321

SURVEYOR: POINT TO POINT
 100 GOVERNORS TRACE, STE #103
 PEACHTREE CITY, GA 30269
 PH. (678) 565-4440

TELCO: TBD
 PROVIDER: XXX-XXX-XXXX

DRIVING DIRECTIONS

DEPART 335 COURT ST, SMITHLAND, KY 42081 ON KY-453 [COURT ST] (EAST) 0.3 MI
 KEEP STRAIGHT ONTO KY-453 [LUKA RD] 7.0 MI
 KEEP STRAIGHT ONTO KY-93 [LUKA RD] 4.5 MI
 ROAD NAME CHANGES TO KY-917 [STRINGTOWN RD] 1.8 MI
 TURN RIGHT (WEST) ONTO REED RD 0.5 MI
 ARRIVE 880 REED RD, GRAND RIVERS, KY 42045

CODE COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS 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 CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

CODE TYPE	CODE
BUILDING/DWELLING	IBC 2015
STRUCTURAL	IBC 2015
MECHANICAL	IMC 2015
ELECTRICAL	NEC 2017

PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES:

- CONSTRUCT (1) NEW 255' SELF SUPPORT TOWER
- CONSTRUCT FENCED GRAVEL UTILITY COMPOUND WITH LOCKING ACCESS GATE, 80' x 80' WITHIN 100' x 100' LEASE AREA.
- INSTALL (1) H-FRAME W/ UTILITY EQUIPMENT.
- INSTALL NEW POWER & TELCO UTILITY SERVICES.
- CONSTRUCT 12' WIDE GRAVEL ACCESS ROAD

DO NOT SCALE DRAWINGS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11X17. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



CALL KENTUCKY ONE CALL
 (800) 752-6007
 CALL 3 WORKING DAYS
 BEFORE YOU DIG!



B&T ENGINEERING, INC.
 COA 4011
 Expires 12/31/20



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

TITLE SHEET

SHEET NUMBER:
 T-1

GENERAL NOTES

* THIS SPECIFIC PURPOSE SURVEY IS FOR THE LEASED PREMISES AND EASEMENTS ONLY. THIS SPECIFIC PURPOSE SURVEY WAS PREPARED FOR THE EXCLUSIVE USE OF UNITI TOWERS, LLC AND EXCLUSIVELY FOR THE TRANSFERRAL OF THE PROPOSED LEASED PREMISES AND THE RIGHTS OF EASEMENT SHOWN HEREON AND SHALL NOT BE USED AS AN EXHIBIT OR EVIDENCE IN THE FEE SIMPLE TRANSFERRAL OF THE PARENT PARCEL NOR ANY PORTION OR PORTIONS THEREOF. BOUNDARY INFORMATION SHOWN HEREON HAS BEEN COMPILED FROM TAX MAPS AND DEED DESCRIPTIONS ONLY. NO BOUNDARY SURVEY OF THE PARENT PARCEL WAS PERFORMED.

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

THE FIELD DATA UPON WHICH THIS SPECIFIC PURPOSE SURVEY IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 10,000+ FEET AND AN ANGULAR ERROR OF 5.0" PER ANGLE POINT AND WAS NOT ADJUSTED FOR CLOSURE.

EQUIPMENT USED FOR ANGULAR & LINEAR MEASUREMENTS: LEICA TPS 1200 ROBOTIC & GEOMAX ZENITH 35. (DATE OF LAST FIELD VISIT: 12/30/19)

THE 1' CONTOURS AND SPOT ELEVATIONS SHOWN ON THIS SPECIFIC PURPOSE SURVEY ARE ADJUSTED TO NAVD 88 DATUM (COMPUTED USING GEOID18) AND HAVE A VERTICAL ACCURACY OF ± 0.5'. CONTOURS OUTSIDE THE IMMEDIATE SITE AREA ARE APPROXIMATE.

BEARINGS SHOWN ON THIS SPECIFIC PURPOSE SURVEY ARE BASED ON KENTUCKY GRID NORTH (NAD 83) SINGLE ZONE.

PER THE FEMA FLOODPLAIN MAPS, THE SITE IS LOCATED IN AN AREA DESIGNATED AS ZONE A (NO BFE DETERMINED) BUT NO PORTION OF THE LEASE AREA OR INGRESS-EGRESS EASEMENT IS LOCATED IN A SPECIAL FLOOD ZONE. COMMUNITY PANEL NO. : 21139C0315C DATED: 08/16/2012

NO WETLAND AREAS HAVE BEEN INVESTIGATED BY THIS SPECIFIC PURPOSE SURVEY.

ALL ZONING INFORMATION SHOULD BE VERIFIED WITH THE PROPER ZONING OFFICIALS.

ANY UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM ABOVE GROUND FIELD SURVEY INFORMATION. THE SURVEYOR MAKES NO GUARANTEES THAT ANY UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT ANY UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE, THE SURVEYOR HAS NOT PHYSICALLY LOCATED ANY UNDERGROUND UTILITIES.

PARENT PARCEL

OWNER: J.R. & NELLIE J. ROBERTSON

SITE ADDRESS: 859 STRINGTOWN RD, GRAND RIVERS, KY 42045

PARCEL ID: 090-00-00-006.00

AREA: 100 ACRES (PER DB 99 PG 137)

ALL ZONING INFORMATION SHOULD BE VERIFIED WITH THE PROPER ZONING OFFICIALS.

REFERENCE: DEED BOOK 99 PAGE 137

GPS NOTES

THE FOLLOWING GPS STATISTICS UPON WHICH THIS SURVEY IS BASED HAVE BEEN PRODUCED AT THE 95% CONFIDENCE LEVEL:

POSITIONAL ACCURACY: 0.06 FEET (HORZ) 0.27 FEET (VERT)
 TYPE OF EQUIPMENT: GEOMAX ZENITH35 PRO BASE AND ROVER, DUAL FREQUENCY
 TYPE OF GPS FIELD PROCEDURE: ONLINE POSITION USER INTERFACE
 DATES OF SURVEY: 12/30/19
 DATUM / EPOCH: NAD_83(2011)EPOCH:2010.00000
 PUBLISHED / FIXED CONTROL USE: N/A
 GEOID MODEL: 18
 COMBINED GRID FACTOR(S): 0.99999411 CENTERED ON THE GPS BASE POINT AS SHOWN HEREON.
 CONVERGENCE ANGLE: -1.52656389°

PARENT PARCEL

(PER FIDELITY ORDER NO. 30475356)

PROPERTY LOCATED IN LIVINGSTON COUNTY, KENTUCKY

A CERTAIN TRACT OR PARCEL OF LAND LOCATED, LYING AND BEING IN LIVINGSTON COUNTY, KENTUCKY, ON THE SOUTH SIDE OF CUMBERLAND RIVER TWO MILES SOUTH OF IUKA ON THE GRAND HIVERS-IUKA ROAD AND SALVAGE AND WFE TO M. C. ROBERTSON AND WIFE BY DEED, DATED 37TH DAY OF AUGUST, 1932, OF RECORD IN DEED BOOK 55, PAGE 521, RECORDS OF THE LIVINGSTON COUNTY COURT CLERK'S OFFICE, AND DESCRIBED AS FOLLOWS:

BEGINNING AT A STONE ON THE WEST BANK OF THE CUMBERLAND RIVER CORNER TO THE ORIGINAL TRACT OF 100 ACRES BELONGING TO R. L. SALVAGE; THENCE WITH THE NORTH LINE OF SAID TRACT S 89 W 472 POLES TO A WHITE OAK IN ELLEN DYCUS' LINE; THENCE S 27 POLES TO A BLACK OAK, CORNER TO SAID SALVAGE'S 100 ACRE TRACT; THENCE N 89 1/2 E 128 POLES TO A STAKE IN A LINE OF SAID TRACT, CORNER TO C. A. DYCUS ON A LINE OF E. P. DOOM; THENCE S 88 1/2 E 341 POLES TO A STONE ON THE BANK OF THE CUMBERLAND RIVER, ANOTHER CORNER BETWEEN M. C. ROBERTSON AND SHERLY DRISKILL; THENCE N 47 POLES TO THE BEGINNING, CONTAINING 100 ACRES, MORE OR LESS.

LESS AND EXCEPT THAT PORTION OF PROPERTY CONVEYED TO COMMONWEALTH OF KENTUCKY, DEPARTMENT OF HIGHWAYS FROM EULEN RAMAGE SPECIAL COMMISSIONER OF THE LIVINGSTON CIRCUIT COURT BY COMMISSIONER'S DEED DATED FEBRUARY 7, 1975 AND RECORDED FEBRUARY 13, 1975 IN DEED BOOK 121, PAGE 305.

AND BEING A PORTION OF THE SAME PROPERTY CONVEYED TO J. R. ROBERTSON AND NELLIE J. ROBERTSON FROM M. C. ROBERTSON AND ANGLE ROBERTSON BY DEED DATED DECEMBER 20, 1965 AND RECORDED FEBRUARY 25, 1966 IN DEED BOOK 99, PAGE 137.

TAX PARCEL NO. 090-00-00-006.00



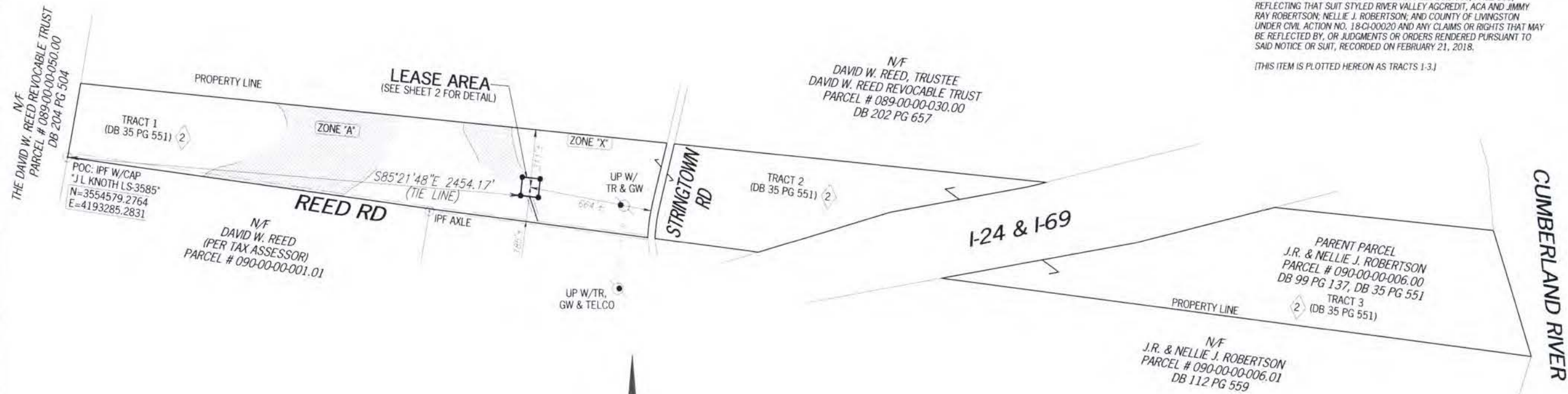
VICINITY MAP
NOT TO SCALE

TITLE EXCEPTIONS

THIS SURVEY WAS COMPLETED WITH THE AID OF TITLE WORK PREPARED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, ISSUE DATE OF DECEMBER 10, 2019 BEING FIDELITY ORDER NO. 30475356, FOR THE PARENT PARCEL, TO DETERMINE THE IMPACTS OF EXISTING TITLE EXCEPTIONS.

2. NOTICE OF LIS PENDENS RECORDED IN DEED BOOK 35, PAGE 551, REFLECTING THAT SUIT STYLED RIVER VALLEY AGGREDIT, ACA AND JIMMY RAY ROBERTSON; NELLIE J. ROBERTSON; AND COUNTY OF LIVINGSTON UNDER CIVIL ACTION NO. 18-CI-00020 AND ANY CLAIMS OR RIGHTS THAT MAY BE REFLECTED BY, OR JUDGMENTS OR ORDERS RENDERED PURSUANT TO SAID NOTICE OR SUIT, RECORDED ON FEBRUARY 21, 2018.

(THIS ITEM IS PLOTTED HEREON AS TRACTS 1-3.)



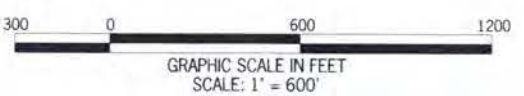
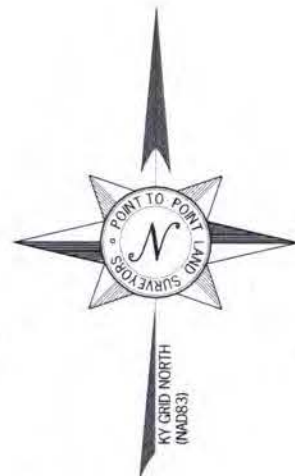
LEGEND

POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
IPS	IRON PIN SET
IPF	IRON PIN FOUND
CMF	CONCRETE MONUMENT FOUND
UP	UTILITY POLE
LP	LIGHT POLE
INV	INVERT
FH	FIRE HYDRANT
EP	EDGE OF PAVEMENT
BC	BACK OF CURB
OU	OVERHEAD UTILITY
GW	GUY WIRE ANCHOR
TR	TRANSFORMER
N/F	NOW OR FORMERLY
HWF	HOG WIRE FENCE
BWF	BARBED WIRE FENCE
RB	REBAR
TBM	TEMPORARY BENCHMARK

SURVEYOR'S CERTIFICATE

I, G. DARRELL TAYLOR, A KENTUCKY PROFESSIONAL LAND SURVEYOR, CERTIFY THAT THE INFORMATION SHOWN HEREON WAS COMPILED USING DATA FROM AN ACTUAL FIELD SURVEY MADE UNDER MY DIRECT SUPERVISION BY METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. THE UNADJUSTED PRECISION RATIO OF THE TRAVERSE EXCEEDED 1:10,000 AND WAS NOT ADJUSTED FOR CLOSURE. THIS SURVEY MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR AN URBAN SURVEY AS ESTABLISHED BY THE STATE OF KENTUCKY, PER 201 KAR 18:150 AND IN EFFECT ON THE DATE OF THIS SURVEY.

G. DARRELL TAYLOR, PLS 4179
 DATE: 01/21/2020



STATE of KENTUCKY
 G. DARRELL TAYLOR
 4179
 LICENSED PROFESSIONAL LAND SURVEYOR

NO.	DATE	REVISION
1	01/21/2020	ADDED TITLE -EAL

POINT TO POINT LAND SURVEYORS
 100 Governors Trace, Ste. 103
 Peachtree City, GA 30269
 (p) 678.565.4440 (f) 678.565.4497
 (w) pointtopointsurvey.com



SPECIFIC PURPOSE SURVEY PREPARED FOR:



LUKA
 KYBGN2020

LIVINGSTON COUNTY, KENTUCKY

DRAWN BY: EAL	SHEET:
CHECKED BY: JKL	1
APPROVED: D. MILLER	
DATE: JANUARY 13, 2020	
P2P JOB #: 195338KY	



Know what's below. Call before you dig.

SURVEY NOT VALID WITHOUT SHEET 2 OF 2

I:\shopbox (Point To Point)\P2P Current Jobs\2019\195338KY-KYBGN2020_Luka\195338KY.dwg

LEASE AREA

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN LIVINGSTON COUNTY, KENTUCKY AND BEING A PORTION OF THE LANDS OF J.R. AND NELLIE J. ROBERTSON, AS RECORDED IN DEED BOOK 35 PAGE 551, LIVINGSTON COUNTY RECORDS AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

TO FIND THE POINT OF BEGINNING, COMMENCE AT A CAPPED IRON PIN ("J L KNOTH LS-3585") HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3554579.2764 E: 4193285.2831; THENCE RUNNING ALONG A TIE LINE, SOUTH 85°21'48" EAST, 2454.17 FEET TO A POINT HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3554380.8946 E: 4195731.4186 AND THE TRUE POINT OF BEGINNING; THENCE RUNNING, NORTH 05°46'52" EAST, 100.00 FEET TO A POINT; THENCE, SOUTH 84°13'08" EAST, 100.00 FEET TO A POINT; THENCE, SOUTH 05°46'52" WEST, 100.00 FEET TO A POINT; THENCE, NORTH 84°13'08" WEST, 100.00 FEET TO A POINT AND THE POINT OF BEGINNING.

BEARINGS BASED ON KENTUCKY GRID NORTH, NAD83, SINGLE ZONE.

SAID TRACT CONTAINS 0.2296 ACRES (10,000 SQUARE FEET), MORE OR LESS.

30' INGRESS-EGRESS & UTILITY EASEMENT

TOGETHER WITH A 30-FOOT WIDE INGRESS-EGRESS AND UTILITY EASEMENT (LYING 15 FEET EACH SIDE OF CENTERLINE) LYING AND BEING IN LIVINGSTON COUNTY, KENTUCKY AND BEING A PORTION OF THE LANDS OF J.R. AND NELLIE J. ROBERTSON, AS RECORDED IN DEED BOOK 35 PAGE 551, LIVINGSTON COUNTY RECORDS AND BEING MORE PARTICULARLY DESCRIBED BY THE FOLLOWING CENTERLINE DATA:

TO FIND THE POINT OF BEGINNING, COMMENCE AT A CAPPED IRON PIN ("J L KNOTH LS-3585") HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3554579.2764 E: 4193285.2831; THENCE RUNNING ALONG A TIE LINE, SOUTH 85°21'48" EAST, 2454.17 FEET TO A POINT HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3554380.8946 E: 4195731.4186 AND THE SOUTHWEST CORNER OF THE LEASE AREA; THENCE RUNNING ALONG SAID LEASE AREA, NORTH 05°46'52" EAST, 100.00 FEET TO A POINT; THENCE, SOUTH 84°13'08" EAST, 100.00 FEET TO A POINT; THENCE, SOUTH 05°46'52" WEST, 100.00 FEET TO A POINT; THENCE, NORTH 84°13'08" WEST, 50.00 FEET TO A POINT AND THE TRUE POINT OF BEGINNING; THENCE LEAVING SAID LEASE AREA AND RUNNING, SOUTH 19°19'33" EAST, 139.86 FEET TO THE ENDING AT A POINT ON THE NORTH LINE OF REED ROAD, A COUNTY MAINTAINED GRAVEL ROAD.

BEARINGS BASED ON KENTUCKY GRID NORTH, NAD83, SINGLE ZONE.

SITE INFORMATION

LEASE AREA = 10,000 SQUARE FEET (0.2296 ACRES)

LATITUDE = 37°03'29.38" (NAD 83) (37.058161°)
LONGITUDE = -88°14'10.91" (NAD 83) (-88.236364°)
AT CENTER LEASE AREA

ELEVATION AT CENTER OF LEASE AREA = 346.7' A.M.S.L.

STATE of KENTUCKY
G. DARRELL TAYLOR
4179
LICENSED PROFESSIONAL LAND SURVEYOR

NO.	DATE	REVISION
1	01/21/2020	ADDED TITLE -EAL

SPECIFIC PURPOSE SURVEY PREPARED BY:
POINT TO POINT LAND SURVEYORS
100 Governors Trace, Ste. 103
Peachtree City, GA 30269
(p) 678.565.4440 (f) 678.565.4497
(w) pointtopointsurvey.com



SPECIFIC PURPOSE SURVEY PREPARED FOR:



LUKA
KYBGN2020

LIVINGSTON COUNTY, KENTUCKY

DRAWN BY: EAL

CHECKED BY: JKL

APPROVED: D. MILLER

DATE: JANUARY 13, 2020

P2P JOB #: 195338KY

SHEET:

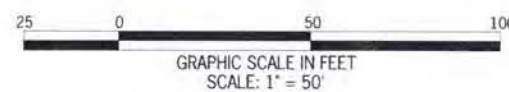
2

OF 2



LEGEND

- POB POINT OF BEGINNING
- POC POINT OF COMMENCEMENT
- IPS IRON PIN SET
- IPF IRON PIN FOUND
- CMF CONCRETE MONUMENT FOUND
- UP UTILITY POLE
- LP LIGHT POLE
- INV INVERT
- FH FIRE HYDRANT
- EP EDGE OF PAVEMENT
- BC BACK OF CURB
- OU OVERHEAD UTILITY
- GW GUY WIRE ANCHOR
- TR TRANSFORMER
- N/F NOW OR FORMERLY
- HWF HOG WIRE FENCE
- BWF BARBED WIRE FENCE
- RB REBAR
- TBM TEMPORARY BENCHMARK



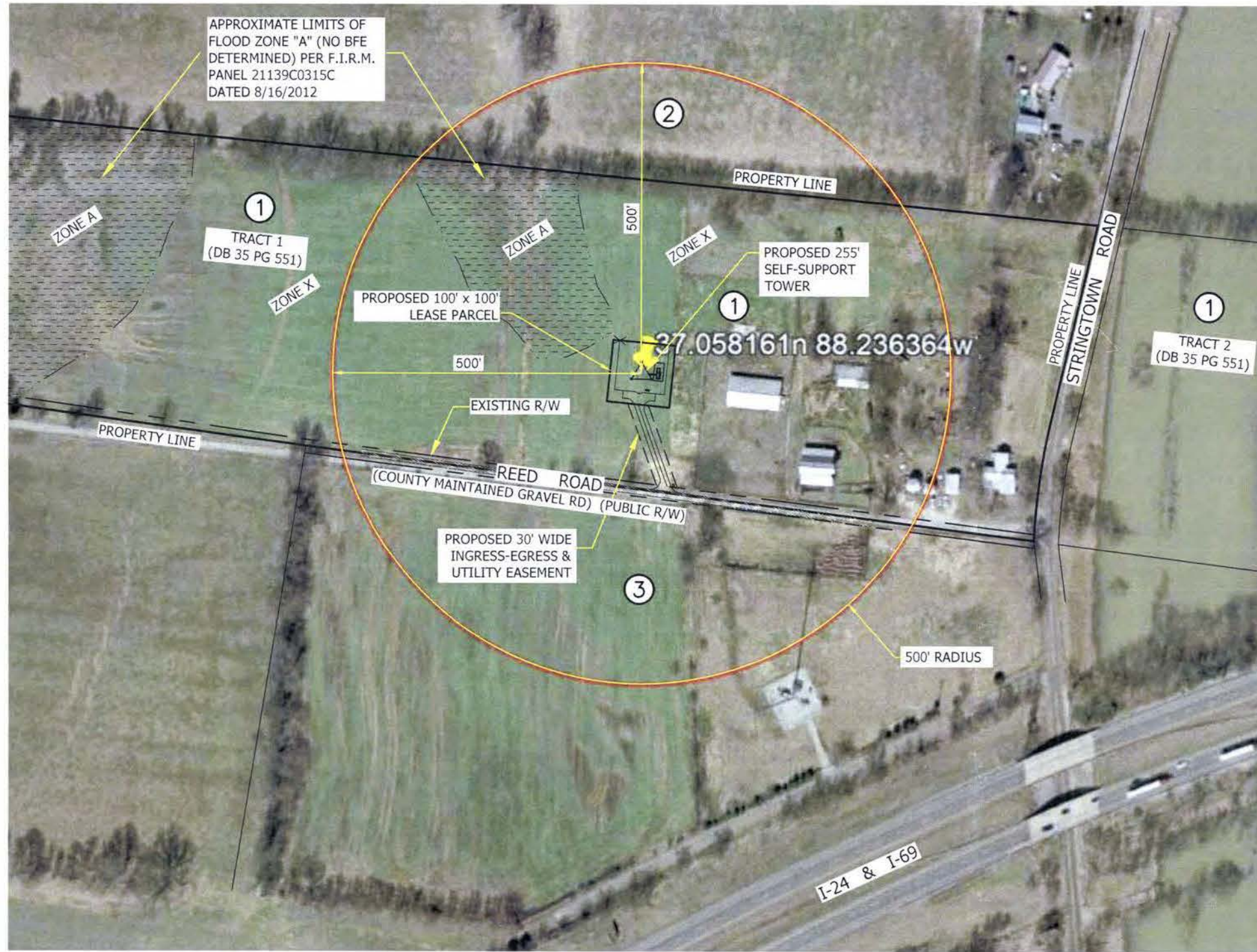
REED ROAD
COUNTY MAINTAINED GRAVEL ROAD - PUBLIC RIGHT-OF-WAY
(PER COMMUNICATION WITH LIVINGSTON COUNTY ROAD DEPT)

SURVEY NOT VALID WITHOUT SHEET 1 OF 2

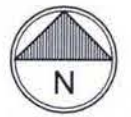
#	OWNER	ADDRESS	PID	REF
1	J.R & NELLIE J. ROBERTSON	859 STRINGTOWN RD GRAND RIVER, KY 42045	090-00-00-006.00	DB 99 PG 137 DB 35 PG 551
2	DAVID W. REED, TRUSTEE DAVID W. REED REVOCABLE TRUST	P.O. BOX 275 GRAND RIVER, KY 42045	089-00-00-030.00	DB 202 PG 657
3	MIKE & NANCY MILLIKAN JACKIE & SHANNON MILLIKAN	1572 SR 373 N EDDYVILLE, KY 42038	090-00-00-006.01	DB 258 PG 083

NOTE:

1. SEE SHT. C-1.1 FOR INFORMATION ON PROPERTIES #4 - #6.
2. PVA INFORMATION WAS OBTAINED ON 7/23/2020 FROM THE OFFICIAL RECORDS OF THE COUNTY'S PROPERTY VALUATION ADMINISTRATOR.
3. THIS MAP IS FOR GENERAL INFORMATION PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
4. NOT FOR RECORDING OR PROPERTY TRANSFER.



1 500' RADIUS & ADJOINER'S DRAWING
SCALE: 1" = 200'
0' 100' 200' 300' 400'



CALL KENTUCKY ONE CALL
(800) 752-6007
CALL 3 WORKING DAYS
BEFORE YOU DIG!



UNITI TOWERS
LUKA
FA# 15147593
PT# 10068325
880 REED ROAD
GRAND RIVERS, KY 42045
LIVINGSTON COUNTY
PROPOSED 255' SELF-SUPPORT TOWER

PROJECT NO: G0137337
CHECKED BY: MAS

ISSUED FOR:			
REV	DATE	DRWN	DESCRIPTION
A	08/18/20	DLS	ZONING DRAWINGS
0	08/28/20	DLS	ZONING DRAWINGS

B&T ENGINEERING, INC.
COA 4011
Expires 12/31/20



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

500' RADIUS & ADJOINER'S DRAWING

SHEET NUMBER:
C-1.0

#	OWNER	ADDRESS	PID	REF
4	DAVID W. REED	P.O. BOX 67 GILBERTSVILLE, KY 42044	090-00-00-001.01	-
5	DAVID W. REED	P.O. BOX 275 GRAND RIVERS, KY 42045	089-00-00-030.00	DB 202 PG 657
6	PAM SHANE & CARLA LIGON	1115 KENMAR ROAD GRAND RIVERS, KY 42045	4-1 & 39	-

NOTE:

- SEE SHT. C-1.0 FOR INFORMATION ON PROPERTIES #1 - #3.
- PVA INFORMATION WAS OBTAINED ON 7/23/2020 FROM THE OFFICIAL RECORDS OF THE COUNTY'S PROPERTY VALUATION ADMINISTRATOR.
- THIS MAP IS FOR GENERAL INFORMATION PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
- NOT FOR RECORDING OR PROPERTY TRANSFER.



UNITI TOWERS
LUKA
 FA# 15147593
 PT# 10068325
 880 REED ROAD
 GRAND RIVERS, KY 42045
 LIVINGSTON COUNTY
 PROPOSED 255' SELF-SUPPORT TOWER

PROJECT NO: G0137337
 CHECKED BY: MAS

ISSUED FOR:			
REV	DATE	DRWN	DESCRIPTION
A	08/18/20	DLS	ZONING DRAWINGS
0	08/28/20	DLS	ZONING DRAWINGS

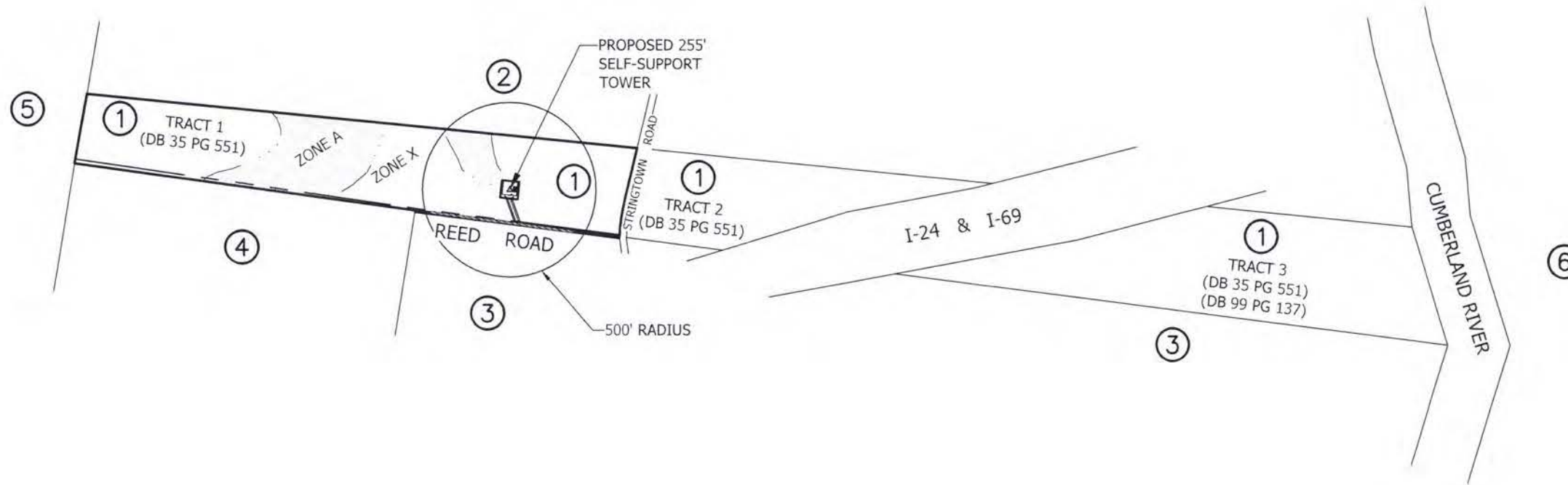
B&T ENGINEERING, INC.
 COA 4011
 Expires 12/31/20



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OVERALL
 ADJOINER'S
 DRAWING

SHEET NUMBER:
C-1.1

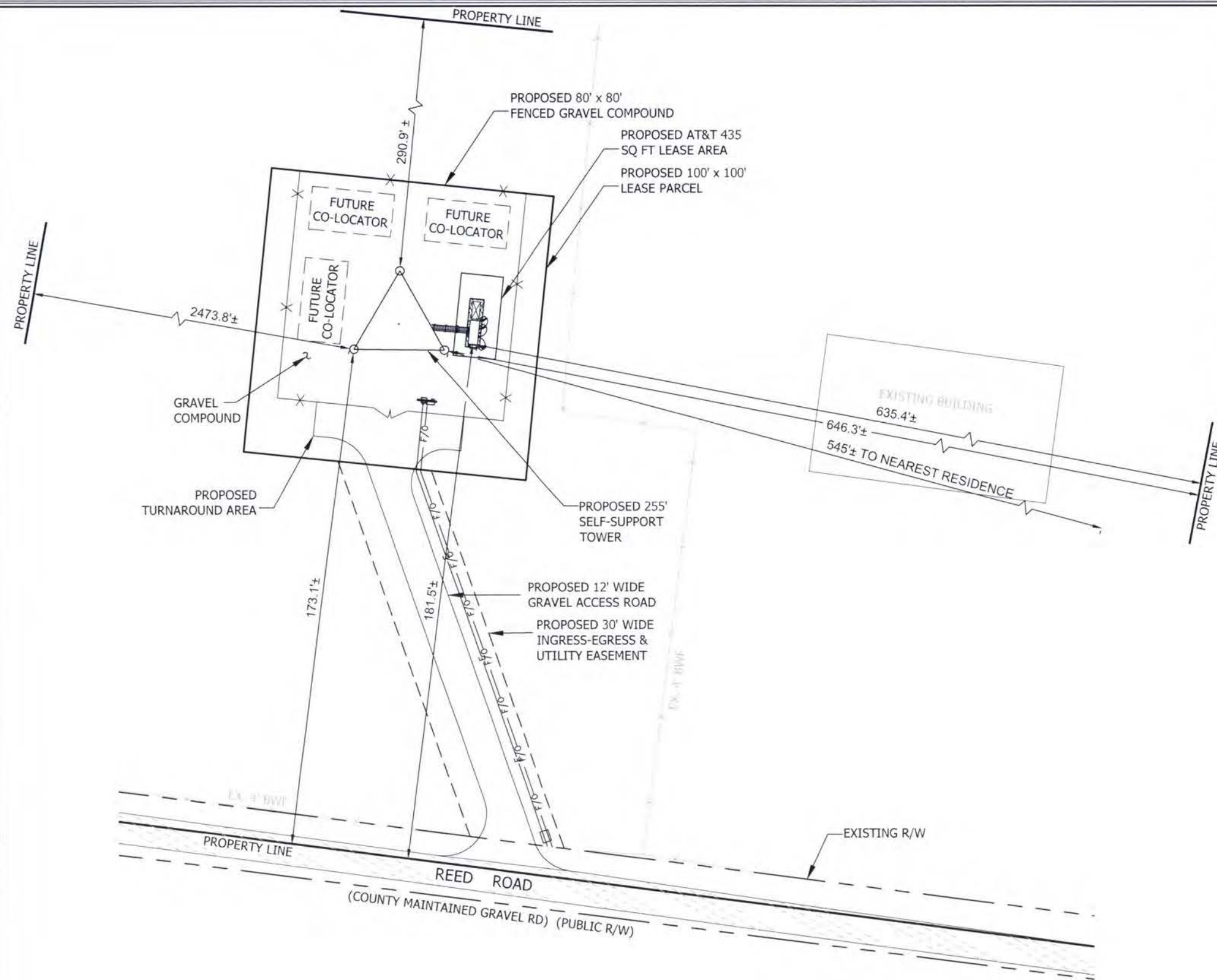


1 OVERALL ADJOINER'S DRAWING
 SCALE: 1"=800'
 0' 400' 800' 1200' 1600'



CALL KENTUCKY ONE CALL
 (800) 752-6007
 CALL 3 WORKING DAYS
 BEFORE YOU DIG!





NOTES:

1. SEE LEGEND, SITE DATA, AND GENERAL NOTES ON SHEETS GN-1 THRU GN-4.
2. TOWER LATITUDE, LONGITUDE & ELEVATION MEET FAA "1-A" ACCURACY REQUIREMENTS.
3. PROPOSED SELF-SUPPORT TOWER.

CENTER OF TOWER:

LATITUDE: NORTH 37°03'29.38" (37.058161) NAD 83
 LONGITUDE: WEST -88°14'10.91" (-88.236364) NAD 83
 GROUND ELEVATION @ 346.7' A.M.S.L.

4. THE APPROXIMATE PERPENDICULAR DISTANCES FROM THE OUTER EDGE OF THE PROPOSED TOWER TO PARENT TRACT NEAREST PROPERTY LINE ARE AS FOLLOWS:

NORTH: 290.9'±
 SOUTH: 173.1'±
 EAST: 646.3'±
 WEST: 2473.8'±



UNITI TOWERS
LUKA
 FA# 15147593
 PT# 10068325
 880 REED ROAD
 GRAND RIVERS, KY 42045
 LIVINGSTON COUNTY
 PROPOSED 255' SELF-SUPPORT TOWER

PROJECT NO: G0137337
 CHECKED BY: MAS

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	08/18/20	DLS	ZONING DRAWINGS
0	08/28/20	DLS	ZONING DRAWINGS

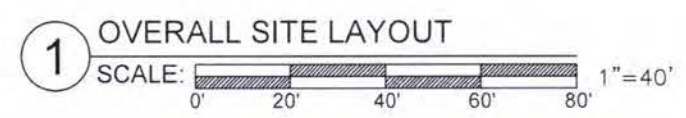
B&T ENGINEERING, INC.
 COA 4011
 Expires 12/31/20



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OVERALL SITE LAYOUT

SHEET NUMBER:
C-2



CALL KENTUCKY ONE CALL
 (800) 752-6007
 CALL 3 WORKING DAYS
 BEFORE YOU DIG!





UNITI TOWERS
LUKA

FA# 15147593
PT# 10068325
880 REED ROAD
GRAND RIVERS, KY 42045
LIVINGSTON COUNTY

PROPOSED 255' SELF-SUPPORT TOWER

PROJECT NO: G0137337
CHECKED BY: MAS

ISSUED FOR:			
REV	DATE	DRWN	DESCRIPTION
A	08/18/20	DLS	ZONING DRAWINGS
0	08/28/20	DLS	ZONING DRAWINGS

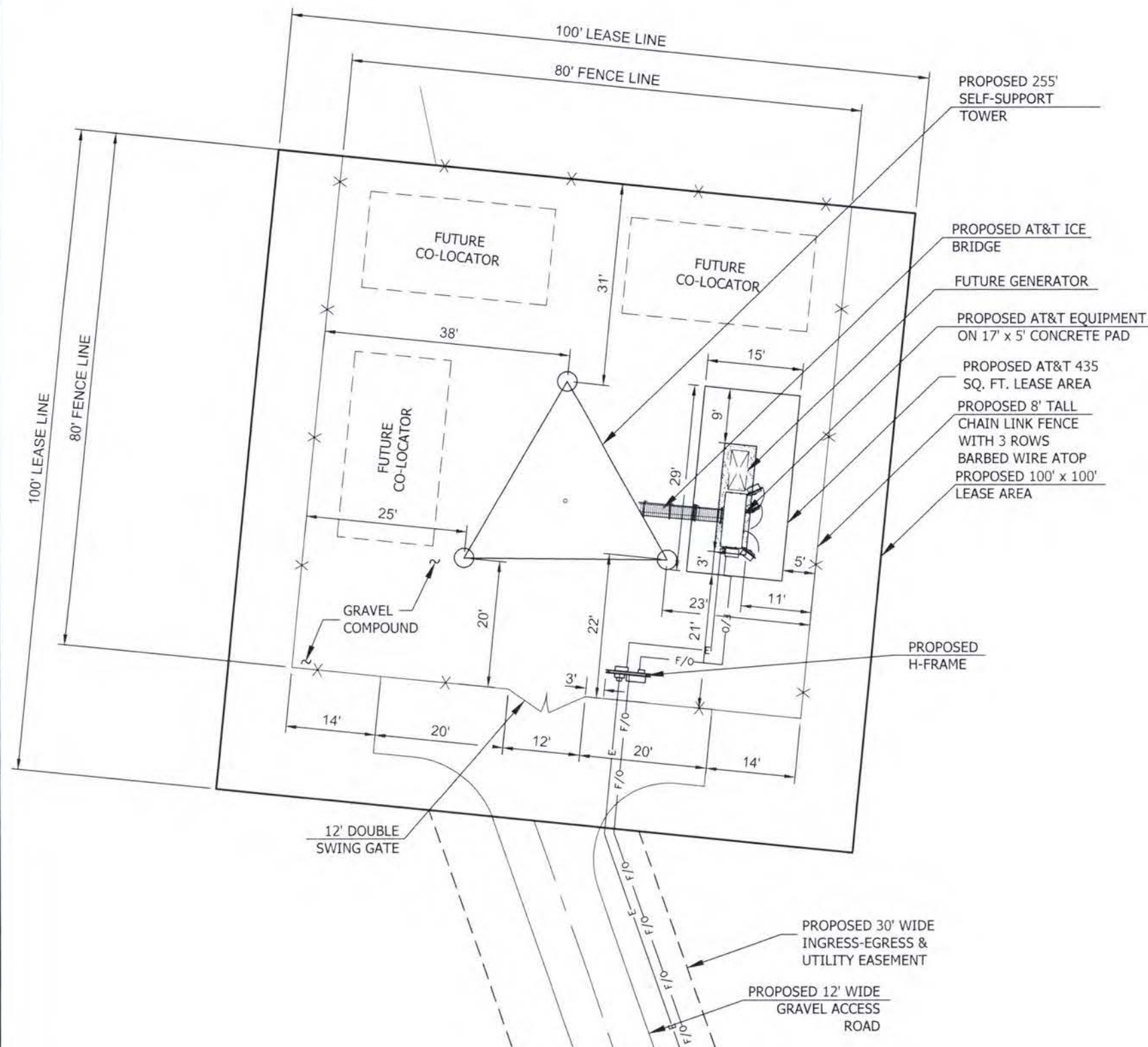
B&T ENGINEERING, INC.
COA 4011
Expires 12/31/20



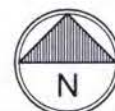
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

ENLARGED
COMPOUND
LAYOUT

SHEET NUMBER:
C-3

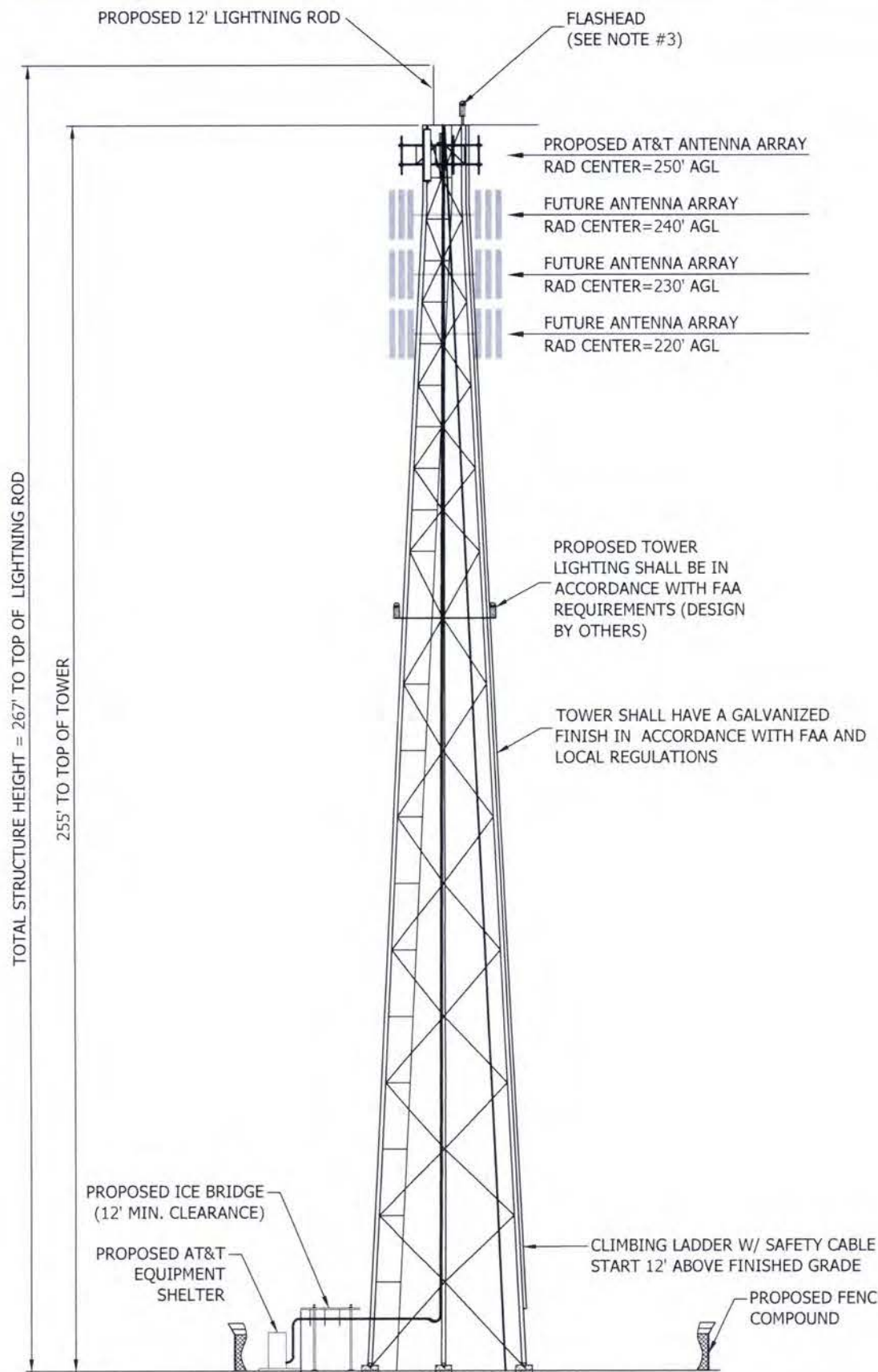


1 ENLARGED COMPOUND LAYOUT
SCALE: 1" = 20'



CALL KENTUCKY ONE CALL
(800) 752-6007
CALL 3 WORKING DAYS
BEFORE YOU DIG!





STRUCTURAL ANALYSIS NOTES:

1. ANTENNA PLACEMENT WAS DETERMINED WITHOUT VERIFICATION OF STRUCTURAL ANALYSIS.
2. REFER TO STRUCTURAL ANALYSIS OR STRUCTURAL LETTER FOR APPROVAL OF ADDITIONAL NEW APPURTENANCES.

NOTES: CONTRACTOR TO REFER TO THE STRUCTURAL DESIGN REPORT PREPARED BY UNITI TOWERS PRIOR TO CONSTRUCTION.

1 TOWER ELEVATION
SCALE: N.T.S.



UNITI TOWERS
LUKA
FA# 15147593
PT# 10068325
880 REED ROAD
GRAND RIVERS, KY 42045
LIVINGSTON COUNTY
PROPOSED 255' SELF-SUPPORT TOWER

PROJECT NO: G0137337
CHECKED BY: MAS

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	08/18/20	DLS	ZONING DRAWINGS
0	08/28/20	DLS	ZONING DRAWINGS

B&T ENGINEERING, INC.
COA 4011
Expires 12/31/20



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TOWER ELEVATION

SHEET NUMBER:
C-4

EXHIBIT C
TOWER AND FOUNDATION DESIGN



Uniti Group Corporate Headquarters
10802 Executive Center Drive
Benton Building, Ste. 300
Little Rock, AR 72211
501.850.0820 | uniti.com

July 16,2020

Kentucky Public Service Commission
211 Sower Blvd.
P.O. Box 615
Frankfort, KY 40602-0615

RE: Site Name – Lake City Relo
Proposed Cell Tower
37.0581610 North Latitude, 88.2363640 West Longitude

Dear Commissioners:

The Construction Manager for the proposed new communications facility will be Jeremy Culpepper. His contact information is (985) 707-6175 or Jeremy.Culpepper@uniti.com. Jeremy has been in the industry completing civil construction and constructing towers since 1998. He has worked at Uniti Towers LLC since 2018 completing project and construction management on new site build projects.

Thank you,

Jeremy Culpepper

Digitally signed by Jeremy
Culpepper
Date: 2020.07.16 09:27:57 -05'00'

Jeremy Culpepper
Construction Manager – Tennessee/Kentucky Market
Uniti Towers LLC
(985) 707-6175

Uniti Fiber Division Headquarters
107 St. Francis Street, Ste. 1800
Mobile, AL 36602
251.662.1170 | unitifiber.com

www.uniti.com | Birmingham | Jackson | St. Petersburg | Dallas | Memphis

Uniti Towers Division Headquarters
10802 Executive Center Drive, Shannon Bldg., Ste. 100
Little Rock, AR 72211
501.850.0820 | unititowers.com
Domestic | International



1 Fairholm Avenue
Peoria, IL 61603 USA
Phone 309-566-3000
FAX 309-566-3079

September 8, 2020

Uniti Towers
Attn: Tony Hines
10802 Executive Drive
Suite 300
Little Rock, AR. 72211

Reference: 255 FT RT SELF SUPPORT TOWER
LUKA, KENTUCKY

File Number: 235234

<u>Copies</u>	<u>Drawing Number</u>	<u>Description</u>
1	235234-01-D1	Sealed Design for the State of KENTUCKY
1	235234-01-F1	Foundation
1		Sealed Fall Radius Letter

Email: tower_designs@uniti.com

Sincerely,

JD Long

jdd



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

DATE: SEPTEMBER 08, 2020

PURCHASER: UNITI TOWERS LLC

PROJECT: 255 FT RT SELF SUPPORT TOWER
LUKA, KENTUCKY

FILE NUMBER: 235234

DRAWINGS: 235234-01-D1 , 235234-01-F1

I CERTIFY THAT THE REFERENCED DRAWINGS WERE PREPARED UNDER MY SUPERVISION IN ACCORDANCE WITH THE DESIGN AND LOADING CRITERIA SPECIFIED BY THE PURCHASER AND THAT I AM A REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF KENTUCKY.

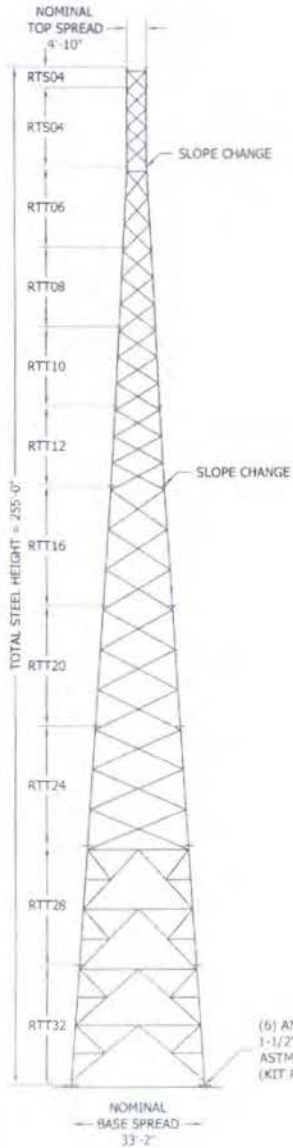
CERTIFIED BY: _____

[Handwritten signature]

DATE: _____

9/8/20





GENERAL NOTES

1. ROHN PRODUCTS, LLC TOWER DESIGNS CONFORM TO ANSI/TIA-222-H UNLESS OTHERWISE SPECIFIED UNDER TOWER DESIGN LOADING.
2. THE DESIGN LOADING CRITERIA INDICATED HAS BEEN PROVIDED TO ROHN. THE DESIGN LOADING CRITERIA HAS BEEN ASSUMED TO BE BASED ON SITE-SPECIFIC DATA IN ACCORDANCE WITH ANSI/TIA-222-H AND MUST BE VERIFIED BY OTHERS PRIOR TO INSTALLATION.
3. ANTENNAS AND LINES LISTED IN TOWER DESIGN LOADING TABLE ARE PROVIDED BY OTHERS UNLESS OTHERWISE SPECIFIED.
4. STEP BOLTS WITH SAFETY CLIMB SYSTEM ARE PROVIDED AS A CLIMBING FACILITY FOR THE INSTALLATION OF THE STRUCTURE.
5. TOWER MEMBER DESIGN DOES NOT INCLUDE STRESSES DUE TO ERECTION SINCE ERECTION EQUIPMENT AND CONDITIONS ARE UNKNOWN. DESIGN ASSUMES COMPETENT AND QUALIFIED PERSONNEL WILL ERECT THE TOWER.
6. WORK SHALL BE IN ACCORDANCE WITH ANSI/TIA-222-H, "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES".
7. THE MINIMUM YIELD STRENGTH OF STRUCTURAL STEEL MEMBERS SHALL BE 50 KSI.
8. FIELD CONNECTIONS SHALL BE BOLTED. NO FIELD WELDS SHALL BE ALLOWED.
9. STRUCTURAL BOLTS SHALL CONFORM TO GRADE A325 PER ASTM F3125, EXCEPT WHERE NOTED.
10. PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
11. STRUCTURAL STEEL AND CONNECTION BOLTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION, IN ACCORDANCE WITH ANSI/TIA-222-H.
12. ALL HIGH STRENGTH BOLTS ARE TO BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED IN THE RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". NO OTHER MINIMUM BOLT TENSION OR TORQUE VALUES ARE REQUIRED.
13. PURCHASER SHALL VERIFY THE INSTALLATION IS IN CONFORMANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR OBSTRUCTION MARKING AND LIGHTING.
14. TOLERANCE ON TOWER STEEL HEIGHT IS EQUAL TO PLUS 1% OR MINUS 1/2%.
15. DESIGN ASSUMES THAT, AS A MINIMUM, MAINTENANCE AND INSPECTION WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE IN ACCORDANCE WITH ANSI/TIA-222-H.
16. DESIGN ASSUMES LEVEL GRADE AT TOWER SITE.
17. DESIGN ASSUMES ALL ANTENNAS ARE MOUNTED SYMMETRICALLY TO MINIMIZE TORQUE, IF APPLICABLE.
18. FOUNDATIONS SHALL BE DESIGNED TO SUPPORT THE REACTIONS SHOWN FOR THE CONDITIONS EXISTING AT THE SITE.
19. TOWER DESIGN INCLUDES CONSIDERATION OF A CONTAINED FALL RADIUS EQUAL TO 0'-0" BY PROVIDING STRONGER SECTIONS THAN REQUIRED BY ANALYSIS IN THE LOWER PORTION OF THE TOWER.

ADJUSTED FACTORED REACTIONS	
COMPRESSION PER LEG	= 532.3 KIPS
TENSION PER LEG	= 447.3 KIPS
SHEAR PER LEG	= 57.1 KIPS
TOTAL SHEAR	= 91.2 KIPS
TOTAL O.T.M	= 14,179.5 FT-KIPS

(6) ANCHOR BOLTS (18 TOTAL)
1-1/2" DIA. X 74" LONG
ASTM F1554 Gr. 105
(KIT P/N: 18K3316RFPST)



TOWER DESIGN LOADING

DESIGN WIND LOAD PER ANSI/TIA-222-H USING THE FOLLOWING DESIGN CRITERIA:
RISK CATEGORY: II
BASIC WIND SPEED (NO ICE): 106 MPH PER ASCE 7-16
BASIC WIND SPEED (W/ICE): 30 MPH PER ASCE 7-16
DESIGN ICE THICKNESS: 1.50 INCHES PER ASCE 7-16
GROUND ELEVATION, Zs: 349 FT
EXPOSURE CATEGORY: C
TOPOGRAPHIC METHOD: 1, CATEGORY: 1
SEISMIC DESIGN PARAMETERS, Ss: 0.747, Si: 0.261, Td: 12, SITE CLASS: D

THIS STRUCTURE HAS BEEN DESIGNED TO SUPPORT THE FOLLOWING LOADS:

ELEVATION (FT)	ANTENNA LOADING	LINE SIZE (NOM)
TOP	BEACON & LIGHTNING ROD	(1) 0-3/4" CONDUIT
250	40,000 SQ-IN MAX EPA	(15) 1-5/8"
238	30,000 SQ-IN MAX EPA	(15) 1-5/8"
226	30,000 SQ-IN MAX EPA	(15) 1-5/8"
214	(2) 6FT STD. DISHES WITH RADOME [AZ. 0 & 180 DEG][6 GHz]	(2) 1-5/8"
202	(2) 6FT STD. DISHES WITH RADOME [AZ. 0 & 180 DEG][6 GHz]	(2) 1-5/8"

SECTION MAIN MEMBER SCHEDULE

SECTION	LEGS	DIAGONALS	HORIZONTALS
RTS04	PIPE 3.500x0.216	L1 3/4x1 3/4x3/16 (1)	L1 3/4x1 3/4x3/16 (1)
RTS04	PIPE 3.500x0.300	L1 3/4x1 3/4x3/16 (4)	N/A
RTT06	PIPE 4.500x0.337	L2x2x3/16 (3)	L1 3/4x1 3/4x3/16 (1)
RTT08	PIPE 5.563x0.375	L2 1/2x2 1/2x3/16 (3)	N/A
RTT10	PIPE 6.625x0.340	L2 1/2x2 1/2x1/4 (3)	N/A
RTT12	PIPE 6.625x0.432	L3x3x3/16 (3)	N/A
RTT16	PIPE 8.625x0.375	L3x3x3/16 (3)	N/A
RTT20	PIPE 8.625x0.500	L3x3x1/4 (3)	N/A
RTT24	PIPE 8.625x0.500	L3 1/2x3 1/2x1/4 (3)	N/A
RTT28	PIPE 8.625x0.500	L3 1/2x3 1/2x1/4 (2)	L3 1/2x3 1/2x1/4 (2)
RTT32	PIPE 8.625x0.500	L3 1/2x3 1/2x1/4 (2)	L4x4x3/8 (2)

NOTE:
SECTION NUMBERS ARE FOR REFERENCE ONLY.
FOR NOMINAL FACE WIDTH DIMENSIONS, REFER TO THE STRESS ANALYSIS.
THE NUMBERS SHOWN IN PARENTHESES INDICATE THE NUMBER OF BAYS FROM TOP TO BOTTOM.

FILE NO. 235234

REVISIONS

REV	DESCRIPTION	OWN	CHK	APP



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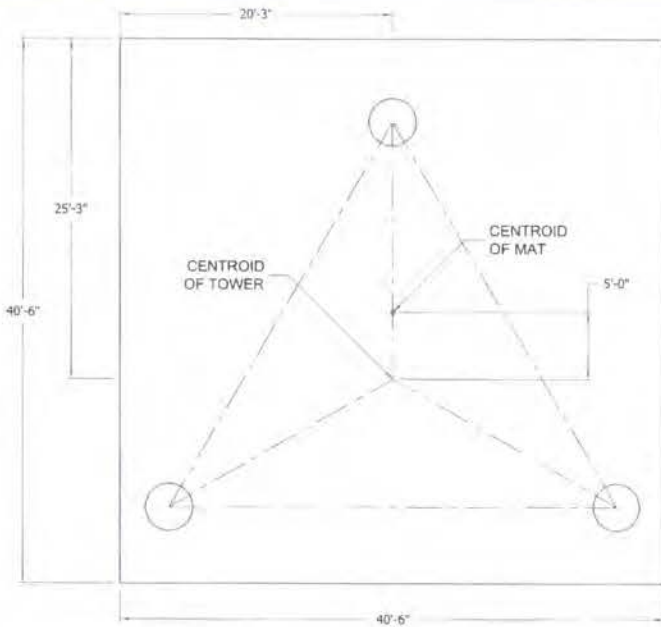
**UNITI TOWERS LLC
DESIGN PROFILE
255 FT RT TOWER
LUKA, KY**

OWNER: SWG CHECKED: HA DATE: 09/08/2020

ENGINEER: SWG SHEET # 1 OF 1

PROJECT: SWG PROJECT MANAGER:

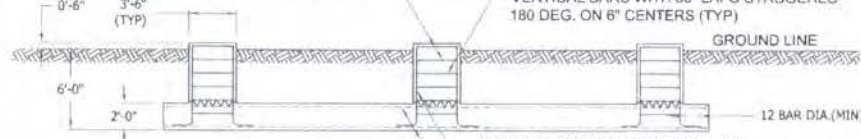
DRAWING NO. 235234-01-01 0



(2) NO. 5 CIRCULAR STIRRUPS ENCLOSING VERTICAL BARS @ 2-1/2" C-C W/ 180 DEG. STAGGERED 6" MIN LAPS TERMINATED AT EACH END WITH A STD. ACI 318 HOOK ENGAGING A VERTICAL BAR WITH 2" COVER (TYP).

PLAN VIEW

NO. 5 CIRCULAR STIRRUPS ENCLOSING VERTICAL BARS WITH 30" LAPS STAGGERED 180 DEG. ON 6" CENTERS (TYP)



(54) NO. 7 HORIZONTAL BARS EQUALLY SPACED EACH WAY, TOP & BOTTOM (216 TOTAL)

(14) NO. 9 VERTICAL BARS EQUALLY SPACED ON 33" DIA. CIRCULAR CAGE (CENTERLINE OF VERT. BARS) W/ STD ACI 318 HOOKS AT BOTTOM (TYP)

ELEVATION VIEW

ADJUSTED FACTORED REACTIONS

Maximum O.T.M = 14,179.5 FT-K
 Total Tower Wt = 81.8 KIPS
 Total Shear = 91.3 KIPS
 Max. Shear/Leg = 57.4 KIPS
 Max. Ten./Leg = 447.3 KIPS
 Max. Comp./Leg = 532.3 KIPS

CONCRETE VOLUME

ROUND PIER 4.8 CU.YDS
 PAD 121.5 CU.YDS
 TOTAL 126.3 CU.YDS

GENERAL NOTES

- FOUNDATION DESIGN HAS BEEN DEVELOPED IN ACCORDANCE WITH GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRINCIPLES AND PRACTICES WITHIN THE LIMITS OF THE SUBSURFACE DATA PROVIDED. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT THE FOLLOWING DESIGN PARAMETERS ARE NOT APPLICABLE FOR THE SUBSURFACE CONDITIONS ENCOUNTERED.
 - ULTIMATE SOIL BEARING PRESSURE AT 6 FT DEPTH = 11,000 PSF.
 - GROUND WATER TABLE IS AT OR BELOW FOUNDATION DEPTH.
 - MAXIMUM FROST PENETRATION DEPTH LESS THAN FOUNDATION DEPTH.
- WORK SHALL BE IN ACCORDANCE WITH THE PROJECT CONSTRUCTION DOCUMENTS, LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
- CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
- PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI 318 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI IN 28 DAYS.
- MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 3/4 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING SHALL BE UTILIZED TO PREVENT HONEYCOMBS OR VOIDS.
- REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED. SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED UNLESS OTHERWISE INDICATED.
- WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
- MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH MINIMUM COVER ON REINFORCEMENT.
- CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT EXCEED 3 INCHES NOR BE LESS THAN 2 INCHES.
- FOUNDATION DESIGN ASSUMES STRUCTURAL BACKFILL TO BE COMPACTED IN 8 INCH MAXIMUM LAYERS TO 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D 1557. ADDITIONALLY, STRUCTURAL BACKFILL MUST HAVE A MINIMUM COMPACTED UNIT WEIGHT OF 110 POUNDS PER CUBIC FOOT.
- FOUNDATION DESIGN HAS BEEN BASED ON GEOTECHNICAL REPORT NO. **GEO20-06734-08** DATED 8/6/2020 BY **DELTA OAKS GROUP**.
- FOUNDATION DEPTH INDICATED IS BASED ON THE GRADE LINE DESCRIBED IN THE REFERENCED GEOTECHNICAL REPORT. FOUNDATION MODIFICATION MAY BE REQUIRED IN THE EVENT CUT OR FILL OPERATIONS HAVE TAKEN PLACE SUBSEQUENT TO THE GEOTECHNICAL INVESTIGATION.
- FOUNDATION DESIGN ASSUMES INSTALLATION ON A PROPERLY DRAINED LEVEL SITE.
- FOUNDATION DESIGN ASSUMES THE RECOMMENDATIONS IN THE REFERENCED GEOTECHNICAL REPORT CONCERNING VERIFICATION OF SUBSURFACE CONDITIONS ARE IMPLEMENTED PRIOR TO PLACEMENT OF CONCRETE.
- FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
- ALL CONSTRUCTION AND SAFETY EQUIPMENT AND TEMPORARY SUPPORTS REQUIRED FOR CONSTRUCTION SHALL BE DETERMINED, FURNISHED AND INSTALL BY THE CONTRACTOR BASED ON THE MEANS AND METHODS CHOSEN BY THE CONTRACTOR. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED BY COMPETENT, QUALIFIED AND TRAINED PERSONNEL.
- FOUNDATION DESIGN ASSUMES INSTALLATION PROCEDURES WILL INCORPORATE THE PROCEDURES RECOMMENDED IN THE REFERENCED GEOTECHNICAL REPORT.
- FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON CONDITIONS EXISTING AT THE SITE.
- FOR FOUNDATION AND ANCHOR TOLERANCES SEE ANCHOR ROD LAYOUT DRAWING.
- LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
- CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS. INFILTRATION OF WATER OR SOIL AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
- CONCRETE PREFERABLY SHALL BE PLACED AGAINST UNDISTURBED SOIL. WHEN FORMS ARE NECESSARY, THEY SHALL BE REMOVED PRIOR TO PLACING STRUCTURAL BACKFILL.
- CONSTRUCTION JOINTS, IF REQUIRED AT THE BASE OF THE PIERS, SHALL BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4 INCH. FOUNDATION DESIGN ASSUMES NO OTHER CONSTRUCTION JOINTS.
- TOP OF FOUNDATION SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH.
- EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" MINIMUM.

NOTE: SEE STRUCTURE ASSEMBLY DRAWING FOR FOUNDATION LAYOUT AND ANCHORAGE EMBEDMENT DRAWING NUMBER.

FILE NO.		235234		
REVISIONS				
REV	DESCRIPTION	DWN	CHK	APP
<p>PO BOX 5999 PEORIA, IL 61601-9999 TOLL FREE 800-727-ROHN</p>				
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UNIT TOWERS LLC MAT W/RAISED PIERS FOUNDATION DESIGN LUKA- KY				
DWN	SWG	CHKD	HA	DATE
				9/8/2020
ENGR	HA	SHEET #		1 OF 1
PRJ. MGR	SWG	PRJ. MGR		
DRAWING NO.				REV
235234-01-F1				0



1 Fairholm Avenue
Peoria, IL 61603 USA
Phone 309-566-3000
FAX 309-566-3079
Toll Free 800-727-ROHN

September 8, 2020

Uniti Towers
10802 Executive Center Dr STE 300
Little Rock, AR 72211

Attn: Mr. Tony Hines

Reference: 255ft Self-Supporting Tower
Site Name: Luka
Livingston County, KY
File#235234

Dear Mr. Hines:

The referenced tower is designed to meet the specified loading requirements in accordance with the ANSI/TIA/EIA-222-H for ASCE 7-16 Ultimate Wind Speed of 106 MPH 3-second wind speed with no ice and 30 MPH 3-second gust wind speed with 1.50 inches radial ice per ASCE 7-16. Structure Class: II; Exposure Category: C; Topographic Category: 1.

It is our understanding that the design of the referenced tower requires consideration of a contained fall radius in the event a catastrophic wind speed were to result in a failure. Although the tower would not be designed to fail, stronger leg and brace members than required by analysis would be provided in the lower portion of the tower. This would result in an increased safety factor in the lower sections. This design would enable the tower to fail through a combination of bending and buckling in the upper portion of the tower should a catastrophic wind loading occur. Failure in this manner would result in the upper portion of the tower folding over the lower portion, resulting in the tower theoretically collapsing on itself.

Please contact us at your convenience should you have further questions concerning the safety of tower structures or other aspects of tower design.


Habib Azouri, P.E.
Engineering Manager

cc: JD Long

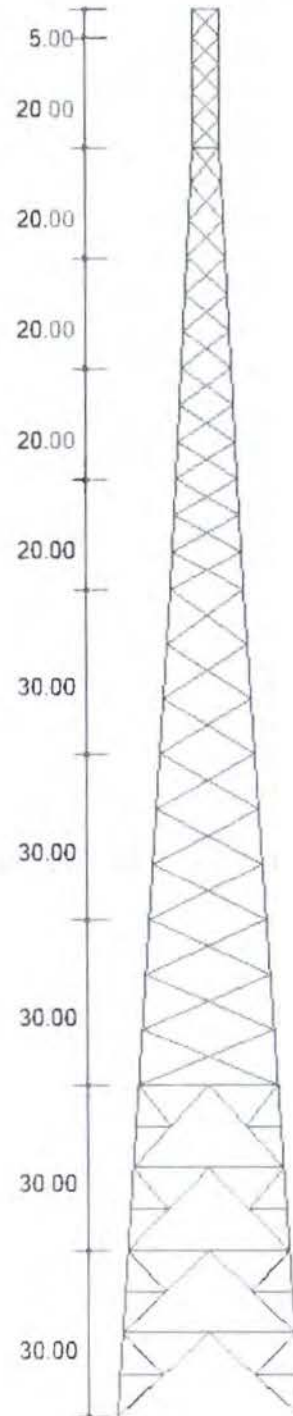


File: W:\Jobs\2020\235234\ENGINEERING\235234.out
Contract: 235234
Project: 255 FT RT TOWER
Date and Time: 9/8/2020 8:52:13 AM

Revision: 0
Site: LUKA- KY
Engineer: SWG ✓HA

DESIGN SPECIFICATION

Sct	Length (ft)	Top W. (in)	Bot Width (in)
1	30.00	349.97	397.97
2	30.00	301.97	349.97
3	30.00	253.97	301.97
4	30.00	205.97	253.97
5	30.00	157.57	205.97
6	20.00	132.24	157.57
7	20.00	108.24	132.24
8	20.00	83.32	108.24
9	20.00	58.40	83.32
10	20.00	57.53	58.40
11	5.00	57.53	57.53



MAXIMUM BASE REACTIONS

Download (Kips)	451.2
Uplift (Kips)	379.1
Shear (Kips)	48.6

Adjusted Reactions

532.3
447.3
57.3



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 Project: 255 FT RT TOWER
 Date and Time: 9/8/2020 8:52:13 AM

Revision: 0
 Site: LUKA- KY
 Engineer: SWG

Section A: PROJECT DATA

Project Title: 255 FT RT TOWER
 Customer Name: UNITI TOWERS LLC
 Site: LUKA- KY
 Contract No.: 235234
 Revision: 0
 Engineer: SWG
 Date: Sep 8 2020
 Time: 08:43:22 AM

Design Standard: ANSI/TIA-222-H-2017

GENERAL DESIGN CONDITIONS

Start wind direction: 0.00 (Deg)
 End wind direction: 330.00 (Deg)
 Increment wind direction: 30.00 (Deg)
 Elevation above ground: 0.00 (ft)
 Mean elevation of base of structure above sea level 2s:
 349.00 (ft)
 Rooftop wind speed-up factor Ks: 1.00
 Gust Response Factor Gh: 0.85
 Risk category: II
 Exposure category: C
 Topographic category: I
 Material Density: 490.1 (lbs/ft^3)
 Young's Modulus: 29000.0 (ksi)
 Poisson Ratio: 0.30
 Weight Multiplier: 1.25
 Minimum Bracing Resistance as per 4.4.1

WIND ONLY CONDITIONS:
 Basic Wind Speed (No Ice): 106.00 (mph)
 Directionality Factor Kd: 0.85
 Importance Factor I: 1.00
 Wind Load Factor: 1.00
 Dead Load Factor: 1.20
 Dead Load Factor for Uplift: 0.90

WIND AND ICE CONDITIONS:
 Basic Wind Speed (With Ice): 30.00 (mph)
 Directionality Factor Kd: 0.85
 Wind Load Importance Factor Iw: 1.00
 Ice Thickness Importance Factor Ii: 1.00
 Ice Thickness: 1.50 (in)
 Ice Density: 56.19 (lbs/ft^3)
 Wind Load Factor: 1.00
 Dead Load Factor: 1.20
 Ice Load Factor: 1.00

WIND ONLY SERVICEABILITY CONDITIONS:
 Serviceability Wind Speed: 60.00 (mph)
 Directionality Factor Kd: 0.85
 Importance Factor I: 1.00
 Wind Load Factor: 1.00
 Dead Load Factor: 1.00

EARTHQUAKE CONDITIONS:
 Site class definition: D
 Spectral response acceleration Ss: 0.747
 Spectral response acceleration S1: 0.261
 Long-period transition period Tl: 12.000



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Project: 255 FT RT TOWER
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Revision: 0
Site: LUKA- KY
Engineer: SWG

Acceleration-based site coefficient Fa: 1.202
Velocity-based site coefficient Fv: 2.078
Design spectral response acceleration Sds: 0.599
Design spectral response acceleration Sd1: 0.362
Seismic analysis method: 1
Fundamental frequency of structure f1: 0.852
Total seismic shear Vs (Kips) : 8.40

Analysis performed using: TowerSoft Finite Element Analysis Program



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 Engineer: SWG

Section B: STRUCTURE GEOMETRY

TOWER GEOMETRY

Cross-Section	Height (ft)	Tot Height (ft)	# of Section	Bot Width (in)	Top Width (in)
Triangular	255.00	255.00	11	397.97	57.53

SECTION GEOMETRY

Sec #	Sec. Name	Elevation		Widths		Legs (lbs)	Masses				Brcg. Clear. (in)	
		Bottom (ft)	Top (ft)	Bottom (in)	Top (in)		Brcg. (lbs)	Sec.Brc (lbs)	Int.Brc (lbs)	Sect. Database (lbs)		
11	RTS04	250.00	255.00	58	58	142	148	0	0	290	0	0.787
10	RTS04	230.00	250.00	58	58	771	440	0	0	1211	0	0.787
9	RTI06	210.00	230.00	83	58	1127	524	0	0	1651	0	0.787
8	RTI08	190.00	210.00	108	83	1562	718	0	0	2280	0	0.787
7	RTI10	170.00	190.00	132	108	1714	1098	0	0	2812	0	0.787
6	RTI12	150.00	170.00	158	132	2150	1152	0	0	3302	0	0.787
5	RTI16	120.00	150.00	206	158	3727	1516	0	0	5243	0	0.787
4	RTI20	90.00	120.00	254	206	4899	2384	0	0	7283	0	0.787
3	RTI24	60.00	90.00	302	254	4899	3266	0	0	8166	0	0.787
2	RTI28	30.00	60.00	350	302	4899	4681	1379	564	11523	0	0.787
1	RTI32*	0.00	30.00	398	350	4899	5998	1535	747	13179	0	0.787
Total Mass:						30792	21923	2913	1312	56939	0	

PANEL GEOMETRY

Sec#	Pnl#	Type	SecBrcg	Mid. Horiz Continuous	Horiz	Height (ft)	Bottom Width (in)	Top Width (in)	Plan Bracing	Hip Bracing	Gusset Plate Area (ft^2)	Gusset Plate Weight (lbs)
11	1	X	(None)		Yes	5.0	57.5	57.5	(None)	(None)	0.260	0.00
10	4	X	(None)		None	5.0	57.7	57.5	(None)	(None)	0.260	0.00
10	3	X	(None)		None	5.0	58.0	57.7	(None)	(None)	0.300	0.00
10	2	X	(None)		None	5.0	58.2	58.0	(None)	(None)	0.300	0.00
10	1	X	(None)		None	5.0	58.4	58.2	(None)	(None)	0.300	0.00
9	3	X	(None)		Yes	6.7	66.7	58.4	(None)	(None)	0.260	0.00
9	2	X	(None)		None	6.7	75.0	66.7	(None)	(None)	0.300	0.00
9	1	X	(None)		None	6.7	83.3	75.0	(None)	(None)	0.300	0.00
8	3	X	(None)		None	6.7	91.6	83.3	(None)	(None)	0.300	0.00
8	2	X	(None)		None	6.7	99.9	91.6	(None)	(None)	0.300	0.00
8	1	X	(None)		None	6.7	108.2	99.9	(None)	(None)	0.300	0.00
7	3	X	(None)		None	6.7	116.2	108.2	(None)	(None)	0.300	0.00
7	2	X	(None)		None	6.7	124.2	116.2	(None)	(None)	0.300	0.00
7	1	X	(None)		None	6.7	132.2	124.2	(None)	(None)	0.300	0.00
6	3	X	(None)		None	6.7	140.7	132.2	(None)	(None)	0.300	0.00
6	2	X	(None)		None	6.7	149.1	140.7	(None)	(None)	0.300	0.00
6	1	X	(None)		None	6.7	157.6	149.1	(None)	(None)	0.300	0.00
5	3	X	(None)		None	10.0	173.7	157.6	(None)	(None)	0.300	0.00
5	2	X	(None)		None	10.0	189.8	173.7	(None)	(None)	0.300	0.00
5	1	X	(None)		None	10.0	206.0	189.8	(None)	(None)	0.300	0.00
4	3	X	(None)		None	10.0	222.0	206.0	(None)	(None)	0.300	0.00
4	2	X	(None)		None	10.0	238.0	222.0	(None)	(None)	0.300	0.00
4	1	X	(None)		None	10.0	254.0	238.0	(None)	(None)	0.300	0.00
3	3	X	(None)		None	10.0	270.0	254.0	(None)	(None)	0.300	0.00
3	2	X	(None)		None	10.0	286.0	270.0	(None)	(None)	0.300	0.00
3	1	X	(None)		None	10.0	302.0	286.0	(None)	(None)	0.300	0.00
2	2	K	2-Subdiv.		Yes	15.0	326.0	302.0	2-Subdiv.	(None)	0.300	0.00
2	1	K	2-Subdiv.		Yes	15.0	350.0	326.0	2-Subdiv.	(None)	0.300	0.00
1	2	K	2-Subdiv.		Yes	15.0	374.0	350.0	2-Subdiv.	(None)	0.300	0.00
1	1	K	2-Subdiv.		Yes	15.0	398.0	374.0	2-Subdiv.	(None)	0.300	0.00

MEMBER PROPERTIES

File: W:\Jobs\2020\235234\ENGINEERING\235234.out
Contract: 235234
Project: 255 FT RT TOWER
Date and Time: 9/8/2020 8:52:13 AM

Revision: 0
Site: LUKA- KY
Engineer: SWG

Sec/Member Pnl Spacing	Type	Description	Steel Grade	Conn. Type	Bolt #-Size	Bolt Grade	End Dist.	Edge Dist.	Gusset Thick.	Gusset Grade	Bolt Space	Dble Mem.
		Stitch										
		Bolt			(in)		(in)	(in)	(in)		(in)	(in)
		(ft)										
11/1	Leg	PIPE 3.500x0.216	A500	gr.CSTension	4-0.750	A325X						
11/1	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
11/1	Horiz	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A529	gr.50	2.000
10/4	Leg	PIPE 3.500x0.300	A500	gr.CSTension	5-0.875	A325X						
10/4	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
10/3	Leg	PIPE 3.500x0.300	A500	gr.CSTension	5-0.875	A325X						
10/3	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
10/2	Leg	PIPE 3.500x0.300	A500	gr.CSTension	5-0.875	A325X						
10/2	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
10/1	Leg	PIPE 3.500x0.300	A500	gr.CSTension	5-0.875	A325X						
10/1	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
9/3	Leg	PIPE 4.500x0.337	A500	gr.CSTension	5-1.000	A325X						
9/3	Diag	L2x2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
9/3	Horiz	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A529	gr.50	2.000
9/2	Leg	PIPE 4.500x0.337	A500	gr.CSTension	5-1.000	A325X						
9/2	Diag	L2x2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
9/1	Leg	PIPE 4.500x0.337	A500	gr.CSTension	5-1.000	A325X						
9/1	Diag	L2x2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
8/3	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
8/3	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
8/2	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
8/2	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
8/1	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
8/1	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
7/3	Leg	PIPE 6.625x0.340	A500	gr.CSTension	6-1.000	A325X						
7/3	Diag	L2 1/2x2 1/2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.563	1.250	0.250	A572	gr.50	2.000
7/2	Leg	PIPE 6.625x0.340	A500	gr.CSTension	6-1.000	A325X						
7/2	Diag	L2 1/2x2 1/2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.563	1.250	0.250	A572	gr.50	2.000
7/1	Leg	PIPE 6.625x0.340	A500	gr.CSTension	6-1.000	A325X						
7/1	Diag	L2 1/2x2 1/2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.563	1.250	0.250	A572	gr.50	2.000
6/3	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.500	A325X						
6/3	Diag	L3x3x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.500	0.250	A572	gr.50	2.000
6/2	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.500	A325X						
6/2	Diag	L3x3x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.500	0.250	A572	gr.50	2.000
6/1	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.500	A325X						



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6/1	Diag	L3x3x3/16	A529 gr.50Bolted	1-0.625	A325X	1.500	1.500	0.250	A572 gr.50	2.000
5/3	Leg	PIPE 8.625x0.375	A500 gr.CSTension	6-1.500	A325X					
5/3	Diag	L3x3x3/16	A529 gr.50Bolted	2-0.625	A325X	1.500	1.500	0.375	A572 gr.50	2.000
5/2	Leg	PIPE 8.625x0.375	A500 gr.CSTension	6-1.500	A325X					
5/2	Diag	L3x3x3/16	A529 gr.50Bolted	2-0.625	A325X	1.500	1.500	0.375	A572 gr.50	2.000
5/1	Leg	PIPE 8.625x0.375	A500 gr.CSTension	6-1.500	A325X					
5/1	Diag	L3x3x3/16	A529 gr.50Bolted	2-0.625	A325X	1.500	1.500	0.375	A572 gr.50	2.000
4/3	Leg	PIPE 8.625x0.500	A500 gr.CSTension	6-1.500	A325X					
4/3	Diag	L3x3x1/4	A529 gr.50Bolted	2-0.625	A325X	1.500	1.500	0.375	A572 gr.50	2.000
4/2	Leg	PIPE 8.625x0.500	A500 gr.CSTension	6-1.500	A325X					
4/2	Diag	L3x3x1/4	A529 gr.50Bolted	2-0.625	A325X	1.500	1.500	0.375	A572 gr.50	2.000
4/1	Leg	PIPE 8.625x0.500	A500 gr.CSTension	6-1.500	A325X					
4/1	Diag	L3x3x1/4	A529 gr.50Bolted	2-0.625	A325X	1.500	1.500	0.375	A572 gr.50	2.000
3/3	Leg	PIPE 8.625x0.500	A500 gr.CSTension	6-1.500	A325X					
3/3	Diag	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.500	1.750	0.375	A572 gr.50	2.000
3/2	Leg	PIPE 8.625x0.500	A500 gr.CSTension	6-1.500	A325X					
3/2	Diag	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.500	1.750	0.375	A572 gr.50	2.000
3/1	Leg	PIPE 8.625x0.500	A500 gr.CSTension	6-1.500	A325X					
3/1	Diag	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.500	1.750	0.375	A572 gr.50	2.000
2/2	Leg	PIPE 8.625x0.500	A500 gr.CSTension	6-1.500	A325X					
2/2	Diag	2L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.500	1.750	0.375	A572 gr.50	2.000
0.3755.01										
2/2	Horiz	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.500	1.750	0.375	A572 gr.50	2.000
2/2	SecD1	L3x3x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.620	0.250	A572 gr.50	2.000
2/2	SecH1	L3x3x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.620	0.250	A572 gr.50	2.000
2/2	PlanH1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	2.000	0.250	A572 gr.50	2.000
2/1	Leg	PIPE 8.625x0.500	A500 gr.CSTension	6-1.500	A325X					
2/1	Diag	2L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.500	1.750	0.375	A572 gr.50	2.000
0.3755.01										
2/1	Horiz	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.500	1.750	0.375	A572 gr.50	2.000
2/1	SecD1	L3x3x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.620	0.250	A572 gr.50	2.000
2/1	SecH1	L3x3x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.620	0.250	A572 gr.50	2.000
2/1	PlanH1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	2.000	0.250	A572 gr.50	2.000
1/2	Leg	PIPE 8.625x0.500	A500 gr.CSTension	6-1.500	A325X					
1/2	Diag	2L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.500	1.750	0.375	A572 gr.50	2.000
0.3755.01										
1/2	Horiz	L4x4x3/8	A529 gr.50Bolted	2-0.625	A325X	1.500	2.000	0.375	A572 gr.50	2.000
1/2	SecD1	L3x3x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.620	0.250	A572 gr.50	2.000
1/2	SecH1	L3x3x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.620	0.250	A572 gr.50	2.000



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1/2	PlanH1	L4x4x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	2.500	0.250	A572 gr.50	2.000
1/1	Leg	PIPE 8.625x0.500	A500 gr.CSTension	6-1.500	A325X				A572 gr.50	2.000
1/1	Diag	2L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.500	1.750	0.375	A572 gr.50	2.000
0.3755.01										
1/1	Horiz	L4x4x3/8	A529 gr.50Bolted	2-0.625	A325X	1.500	2.000	0.375	A572 gr.50	2.000
1/1	SecD1	L3x3x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.620	0.250	A572 gr.50	2.000
1/1	SecH1	L3x3x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.620	0.250	A572 gr.50	2.000
1/1	PlanH1	L4x4x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	2.500	0.250	A572 gr.50	2.000

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Section C: ANTENNA DATA

Structure Azimuth from North: 0

ANTENNAS

Ant No.	Elev. (ft)	Antenna (#) Type	Ant. Azim.	Mount. Radius (ft)	Mount Type	Mount Azim.	Tx Line (#)Type	Mounting Pipe Size (in)	Mounting Pipe Length (ft)	Ka
1	214.00	(1) SD6ft TIA Radome with radome	0	4.00		0			Full Shielded	
		Vert. Offset 0.00 (ft)								
2	214.00	(1) SD6ft TIA Radome with radome	180	4.00		120				
		Vert. Offset 0.00 (ft)								
3	202.00	(1) SD6ft TIA Radome with radome	0	4.50		0				
		Vert. Offset 0.00 (ft)								
4	202.00	(1) SD6ft TIA Radome with radome	180	4.50		120				
		Vert. Offset 0.00 (ft)								

ANTENNA AND MOUNT WIND AREAS AND WEIGHTS

Ant No.	Antenna/Mount	Frontal Bare Area (ft) ²	Lateral Bare Area (ft) ²	Frontal Iced Area (ft) ²	Lateral Iced Area (ft) ²	Weight Bare (lbs)	Weight Iced (lbs)	Frequency GHz	Allowable Signal Loss dB	Gh	Mount Ka
1	SD6ft TIA Radome with radome	24.41	3.78	24.41	3.78	140.00	731.50	6.00	10	0.85	
2	SD6ft TIA Radome with radome	24.41	3.78	24.41	3.78	140.00	731.50	6.00	10	0.85	
3	SD6ft TIA Radome with radome	24.41	3.78	24.41	3.78	140.00	728.33	6.00	10	0.85	
4	SD6ft TIA Radome with radome	24.41	3.78	24.41	3.78	140.00	728.33	6.00	10	0.85	



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Section D: TRANSMISSION LINE DATA

Transmission Lines Position

No.	Bot El (ft)	Top El (ft)	Desc.	Radius (ft)	Az.	Orient.	No.	No. of Rows	Vert.	Antenna	User Ka
1	0.00	255.00	3/8 CABLE	17.00	0.00	0.00	1	1	Yes		
2	0.00	255.00	RC0.75-Cnd	16.69	300.00	355.00	1	1	No		
3	0.00	255.00	TX Ladder	11.05	60.00	30.00	1	1	No		
4	214.00	250.00	LDF7P-50A	2.50	60.00	30.00	15	2	No		
5	0.00	238.00	TX Ladder	11.05	180.00	150.00	1	1	No		
6	202.00	238.00	LDF7P-50A	2.91	180.00	150.00	15	2	No		
7	0.00	226.00	TX Ladder	11.05	300.00	270.00	1	1	No		
8	0.00	226.00	LDF7P-50A	11.05	300.00	270.00	15	2	No		
9	0.00	214.00	LDF7P-50A	11.05	60.00	30.00	17	2	No		
10	0.00	202.00	LDF7P-50A	11.05	180.00	150.00	17	2	No		

Transmission Lines Details

No.	Desc.	Width (in)	Depth (in)	Unit Mass (lb/ft)	Line Spacing (in)	Row Spacing (in)
1	3/8 CABLE	0.38	0.38	1.00	2.750	2.750
2	RC0.75-Cnd	1.05	1.05	1.09	2.750	2.750
3	TX Ladder	4.70	1.50	4.00	2.750	2.750
4	LDF7P-50A	2.01	2.01	0.92	2.250	2.750
5	TX Ladder	4.70	1.50	4.00	2.750	2.750
6	LDF7P-50A	2.01	2.01	0.92	2.250	2.750
7	TX Ladder	4.70	1.50	4.00	2.750	2.750
8	LDF7P-50A	2.01	2.01	0.92	2.250	2.750
9	LDF7P-50A	2.01	2.01	0.92	2.250	2.750
10	LDF7P-50A	2.01	2.01	0.92	2.250	2.750



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Section F: POINT LOAD DATA

Structure Azimuth from North:0.00

POINT LOADS

No.	Description	Elev. (ft)	Radius (ft)	Azim. (Deg)	Orient. (Deg)	Vertical Offset (ft)	Tx Line	Comments
1	BEACON & LR	255.00	1.00	0.0	0.0	0.00		
2	40,000 SQ-IN MAX EPA	250.00	1.00	0.0	0.0	0.00		
3	30,000 SQ-IN MAX EPA	238.00	1.00	120.0	120.0	0.00		
4	30,000 SQ-IN MAX EPA	226.00	1.00	240.0	240.0	0.00		

POINT LOADS WIND AREAS AND WEIGHTS

No.	Description	Frontal Bare Area (ft^2)	Lateral Bare Area (ft^2)	Frontal Iced Area (ft^2)	Lateral Iced Area (ft^2)	Weight Bare (Kips)	Weight Iced (Kips)	Gh
1	BEACON & LR	5.00	5.00	10.00	10.00	0.25	0.50	0.85
2	40,000 SQ-IN MAX EPA	278.00	278.00	556.00	556.00	4.00	8.00	0.85
3	30,000 SQ-IN MAX EPA	209.00	209.00	418.00	418.00	3.00	6.00	0.85
4	30,000 SQ-IN MAX EPA	209.00	209.00	418.00	418.00	3.00	6.00	0.85



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Section H: STRUCTURE DISPLACEMENT DATA

Load Combination Wind Only - Serviceability

Wind Direction Maximum displacements

Node	Elev. (ft)	N-S Disp (in)	W-E Disp (in)	Vert. Disp (in)	N-S Rot (Deg)	W-E Rot (Deg)	Twist (Deg)
105	255.0	11.4	11.0	-0.1	0.51	0.49	-0.07
102	250.0	10.9	10.5	-0.1	0.53	0.51	-0.09
99	245.0	10.3	9.9	-0.1	0.51	0.49	-0.05
96	240.0	9.8	9.4	-0.1	0.51	0.50	-0.06
93	235.0	9.3	8.9	-0.1	0.49	0.48	-0.03
90	230.0	8.7	8.4	-0.1	0.47	0.46	-0.04
87	223.3	8.1	7.8	-0.1	0.45	0.43	-0.02
84	216.7	7.5	7.1	-0.1	0.42	0.41	-0.02
81	210.0	6.9	6.6	-0.1	0.39	0.38	-0.01
78	203.3	6.3	6.1	-0.1	0.37	0.36	-0.02
75	196.7	5.8	5.6	-0.1	0.34	0.33	-0.01
72	190.0	5.3	5.1	-0.1	0.33	0.31	-0.01
69	183.3	4.9	4.7	-0.1	0.30	0.29	-0.01
66	176.7	4.5	4.3	-0.1	0.28	0.27	-0.01
63	170.0	4.1	3.9	-0.1	0.25	0.24	-0.01
60	163.3	3.7	3.5	-0.1	0.25	0.24	-0.01
57	156.7	3.4	3.2	-0.1	0.22	0.21	0.00
54	150.0	3.1	2.9	-0.1	0.21	0.20	-0.01
51	140.0	2.6	2.5	-0.1	0.18	0.17	-0.01
48	130.0	2.2	2.1	-0.1	0.17	0.16	-0.01
45	120.0	1.9	1.8	-0.1	0.14	0.14	0.00
42	110.0	1.6	1.5	-0.1	0.13	0.13	0.00
39	100.0	1.3	1.2	-0.1	0.12	0.11	0.00
36	90.0	1.1	1.0	-0.1	0.11	0.10	0.00
33	80.0	0.8	0.8	-0.1	0.09	0.09	0.00
30	70.0	0.6	0.6	0.0	0.08	0.08	0.00
26	60.0	0.5	0.4	0.0	0.06	0.06	0.00
20	45.0	0.3	-0.3	0.0	0.05	0.04	0.00
14	30.0	0.1	-0.1	0.0	0.03	-0.03	0.00
8	15.0	0.0	0.0	0.0	0.01	-0.01	0.00
3	0.0	0.0	0.0	0.0	0.00	0.00	0.00



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Section J: ANTENNA DISPLACEMENT DATA

Load Combination Wind Only - Serviceability

Wind Direction

Maximum displacements

Ant.	Elev. (ft)	N-S Disp (in)	W-E Disp (in)	Vert. Disp (in)	N-S Rot (Deg)	W-E Rot (Deg)	Twist Tot (Deg)	Allow. (Deg)
1	214.00	7.2	6.9	-0.1	0.41	0.40	-0.02	1.48
2	214.00	7.2	6.9	-0.1	0.41	0.40	-0.02	1.48
3	202.00	6.2	6.0	-0.1	0.37	0.35	-0.02	1.48
4	202.00	6.2	6.0	-0.1	0.37	0.35	-0.02	1.48



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 Contract: 235234
 Project: 255 FT RT TOWER
 Date and Time: 9/8/2020 8:52:13 AM

Revision: 0
 Site: LUKA- KY
 Engineer: SWG

3	2	70.00	Diag	L3 1/2x3 1/2x1/4	25.23	190.5	13.3	33.8	7.3	7.3	0.55
3	1	60.00	Diag	L3 1/2x3 1/2x1/4	26.46	198.7	12.2	33.8	7.7	7.5	0.63
2	2	45.00	Diag	2L3 1/2x3 1/2x1/4	20.24	165.4	35.3	50.8	11.6	11.6	0.33
2	1	30.00	Diag	2L3 1/2x3 1/2x1/4	20.93	169.9	33.5	50.8	11.9	11.9	0.36
1	2	15.00	Diag	2L3 1/2x3 1/2x1/4	21.64	174.6	31.7	50.8	12.2	12.2	0.38
1	1	0.00	Diag	2L3 1/2x3 1/2x1/4	22.37	179.4	30.0	50.8	12.4	12.4	0.41
11	1	250.00	Horiz	L1 3/4x1 3/4x3/16	4.79	145.5	8.4	10.7	1.7	1.7	0.20
9	3	223.33	Horiz	L1 3/4x1 3/4x3/16	4.87	145.1	8.4	10.7	1.0	0.9	0.12
2	2	45.00	Horiz	L3 1/2x3 1/2x1/4	12.58	174.0	16.0	33.8	7.8	7.8	0.49
2	1	30.00	Horiz	L3 1/2x3 1/2x1/4	13.58	184.7	14.2	33.8	8.4	8.2	0.59
1	2	15.00	Horiz	L4x4x3/8	14.58	176.5	26.3	34.5	8.9	8.7	0.34
1	1	0.00	Horiz	L4x4x3/8	15.58	185.8	23.7	34.5	9.3	9.1	0.39
2	2	45.00	SecH1	L3x3x1/4	6.29	128.0	17.2	17.2	6.6	6.6	0.38
2	2	45.00	SecD1	L3x3x1/4	9.48	192.8	11.1	17.2	5.4	5.4	0.48
2	2	45.00	PlanH1	L3 1/2x3 1/2x1/4	12.58	218.8	10.1	17.2	0.1	0.1	0.01
2	1	30.00	SecH1	L3x3x1/4	6.79	138.1	17.2	17.2	6.9	6.9	0.40
2	1	30.00	SecD1	L3x3x1/4	9.79	199.2	10.4	17.2	5.4	5.4	0.52
2	1	30.00	PlanH1	L3 1/2x3 1/2x1/4	13.58	236.2	8.7	17.2	0.1	0.1	0.01
1	2	15.00	SecH1	L3x3x1/4	7.29	148.3	17.2	17.2	7.2	7.2	0.42
1	2	15.00	SecD1	L3x3x1/4	10.12	205.9	9.7	17.2	5.4	5.4	0.55
1	2	15.00	PlanH1	L4x4x1/4	14.58	218.7	11.6	17.2	0.1	0.1	0.00
1	1	0.00	SecH1	L3x3x1/4	7.79	158.5	16.4	17.2	7.5	7.5	0.46
1	1	0.00	SecD1	L3x3x1/4	10.46	212.8	9.1	17.2	5.4	5.4	0.59
1	1	0.00	PlanH1	L4x4x1/4	15.58	233.7	10.2	17.2	0.1	0.1	0.01

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Contract: 235234

Project: 255 FT RT TOWER

Date and Time: 9/8/2020 8:52:13 AM

Revision: 0

Site: LUKA- KY

Engineer: SWG

3	2	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	41.8	505.4	574.2	765.3T	N/A	N/A
3	2	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.375	190.5	13.3	54.8	34.5S	39.0	33.8
3	1	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	41.8	505.4	574.2	765.3T	N/A	N/A
3	1	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.375	198.7	12.2	54.8	34.5S	39.0	33.8
2	2	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	31.3	534.4	574.2	765.3T	N/A	N/A
2	2	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.375	165.4	35.3	109.5	69.0S	58.5	50.8
2	2	Horiz	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.375	174.0	16.0	54.8	34.5S	39.0	33.8
2	2	SecH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	128.0	25.2	45.6	17.2S	19.5	23.2
2	2	SecD1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	192.8	11.1	45.6	17.2S	19.5	23.2
2	2	PlanH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	218.8	10.1	54.8	17.2S	19.5	27.9
2	1	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	31.3	534.4	574.2	765.3T	N/A	N/A
2	1	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.375	169.9	33.5	109.5	69.0S	58.5	50.8
2	1	Horiz	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.375	184.7	14.2	54.8	34.5S	39.0	33.8
2	1	SecH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	138.1	21.6	45.6	17.2S	19.5	23.2
2	1	SecD1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	199.2	10.4	45.6	17.2S	19.5	23.2
2	1	PlanH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	236.2	8.7	54.8	17.2S	19.5	27.9
1	2	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	31.3	534.4	574.2	765.3T	N/A	N/A
1	2	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.375	174.6	31.7	109.5	69.0S	58.5	50.8
1	2	Horiz	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.375	176.5	26.3	94.1	34.5S	58.5	55.3
1	2	SecH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	148.3	18.7	45.6	17.2S	19.5	23.2
1	2	SecD1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	205.9	9.7	45.6	17.2S	19.5	23.2
1	2	PlanH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	218.7	11.6	63.9	17.2S	19.5	34.0
1	1	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	31.3	534.4	574.2	765.3T	N/A	N/A
1	1	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.375	179.4	30.0	109.5	69.0S	58.5	50.8
1	1	Horiz	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.375	185.8	23.7	94.1	34.5S	58.5	55.3
1	1	SecH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	158.5	16.4	45.6	17.2S	19.5	23.2
1	1	SecD1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	212.8	9.1	45.6	17.2S	19.5	23.2
1	1	PlanH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	233.7	10.2	63.9	17.2S	19.5	34.0



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Contract: 235234
Project: 255 FT RT TOWER
Date and Time: 9/8/2020 8:52:13 AM

Revision: 0
Site: LUKA- KY
Engineer: SWG

Section N: LEG REACTION DATA

Load Combination	Max Envelope			
Wind Direction	Maximum			
Force-Y Download (Kips)	Force-Y Uplift (Kips)	Shear-X (Kips)	Shear-Z (Kips)	Max Shear (Kips)
451.20	379.14			48.62



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 Engineer: SWG

Section O: TOWER FOUNDATION DATA

Load Combination Max Envelope
 Wind Direction Maximum

Axial Load (Kips)	Shear Load-X (Kips)	Shear Load-Z (Kips)	Total Shear (Kips)	Moment-X (Kipsft)	Moment-Y (Kipsft)	Moment-Z (Kipsft)	Total Moment (Kipsft)
98.21	-77.33	0.01	77.33	-1.73	-7.90	12018.82	12018.82
73.66	-77.35	-0.01	77.35	-1.29	-7.91	12018.00	12018.00

Customer: UNITI TOWERS LLC
 Project: 255 FT RT TOWER
 Site: LUKA- KY
 Engr. File: 235234
 Build Code: ANSI/TIA-222-G-2005



Mat Foundation

ver.2.2.14

Design Parameters

Description	Load Case					Service
	1	2	3	4	5	
Total Moment, ft-kips	14,179.51	14,178.54	1,958.38	1,601.54	1,600.62	3,919.30
Total Shear, kips	91.23	91.26	11.84	8.40	8.40	25.38
Total Tower Wt, kips	115.87	86.90	300.16	98.16	73.64	81.81
Max. Uplift, kips	437.61	447.30	.00	23.02	31.17	104.33
Shear, kips	49.50	50.22	50.22	2.87	3.47	12.51
Max Download, kips	532.31	522.63	168.24	88.47	80.26	163.73
Shear	57.36	56.65	14.64	7.67	7.07	17.21
Soil L.F.	1.20	0.90	1.20	1.20	0.90	1.00
Concrete L.F.	1.20	0.90	1.20	1.20	0.90	1.00

Foundation	
Ht. AGL, ft	0.50
Depth, ft.	6.00
Tower	
Face Width, ft	33.16
Offset, in	60.00
Soil	
Blow Count	N/A
Inplace Unit Wt. pcf	110.00
Submerged Unit Wt. pcf	60.00
Friction Angle, ϕ , deg.	30.00
Cohesion, ksf	N/A
Uplift Angle, deg.	30.00
Water Depth, ft	None
Ult Bearing Capacity, ksf	11.00

Mat	
Thickness, ft	2.00
Width, ft	40.50
EA, in	18.00
Batter, in/ft	0.00

Pier	
Height, ft	4.50
Diameter, ft	3.50
No. Piers	3
Shape	Round

Anchor Bolts	
Diameter, in	1.5000
No.	6
Length, in	74.00
Bolt Circle, in	20.00
Projection, in	7.50

Pocket	
Diameter, in	N/A
Thickness, ft	N/A

Concrete	
28 Day Strength, ksi	4.50
Dry Unit Wt. pcf	150.00
Wet Unit Wt. pcf	88.00

Rebar Fy	
Vertical, ksi	60.00
Circular, ksi	60.00
Horizontal, ksi	60.00

Results

ϕM_N - Parallel Axis 22,505.27 ft-kips
 ϕM_N - Diagonal Axis 24,787.12 ft-kips
 Moment - Interaction Ratio 0.677
 ϕV_N - Lateral Load 311.17 kips
 Lateral Load - Interaction Ratio 0.293

Final Mat Dimension : 40.50 x 40.50 x 2.00 ft. thick w/ (3) 3.50 ft. Dia. Piers

Final Pocket Dimension : Pockets not required

Total Volume of Concrete : 126.3 yd³

Designed By: SWG
 Date: 08 Sep,20 @ 09:10 AM

Checked By: *HA*
 Date: *9/16/20*

Customer: UNITI TOWERS LLC
 Project: 255 FT RT TOWER
 Site: LUKA- KY
 Engr. File: 235234
 Build Code: ANSI/TIA-222-G-2005



Mat Foundation

ver.2.2.14

OTM Capacity

Controlling Load Case: 2 [Wind w/Min, Dead Load]
 Foundation Width = 40.50 ft
 $M_U = 15,240.1$ ft-kips

	ϕM_N , ft-kips	x, ft	N	σ_{ur}
Parallel	22,505.3	4.050	0.100	9.89
Diagonal	24,787.1	12.807	0.224	9.89

$\phi M_N = 22,505.27$ ft-kips IRatio = 0.677
 $\phi V_N = 311.17$ kips IRatio = 0.293

Mat Design

$\gamma_c = 123.33$ pcf

Exterior Slab	x, ft	N	σ_R , ksf	P_s , kips	P_{su} , kips	Moment, ft-kips/ft		Shear, kips/ft	
						DownLoad Side	Uplift Side	Download Side	Uplift Side
Parallel	15.502	0.383	1.92	31.79	0.00	11.92	11.64	5.47	4.61
Diagonal	24.208	0.423	2.06	31.79	0.00	76.40	55.14	15.03	10.27

Interior Slab	Moment, ft-kips/ft		Shear, kips/ft		Soil Pressure Termination
	DownLoad Side	Uplift Side	Download Side	Uplift Side	
	50.92	57.22	8.08	7.38	7.27

Punching Shear	Download			Uplift			Description
	Interior	Edge	Corner	Interior	Edge	Corner	
b_o , ft	18.74	16.71	14.03	16.08	15.38	13.37	2-Way Shear
V_{su} , psi	141.45	166.95	211.24	138.11	150.86	186.27	
ϕV_c , psi	228.08	228.08	228.08	228.08	228.08	228.08	
IR	0.62	0.73	0.93	0.61	0.66	0.82	
M_{ur} , ft-kips	154.9			135.6			Moment transfer to slab
B_e , ft	8.4			8.0			
M_u , ft-kips/ft	18.4			16.9			
Edge Distances: a = 6.11 ft. b = 3.67 ft. c = 5.68 ft.							

Summary	Max. Value	Utilization
Slab Moment, ft-kips/ft	76.40	0.967
Slab Shear, kips/ft	15.03	0.578
Punching Shear, psi	211.24	0.926
Soil Bearing Required, σ_{UR} , ksf	2.75	0.250

Mat Reinforcement	
Min. Steel Area (Strength)	.772 in ² /ft.
Min. Steel Area (Temperature)	.259 in ² /ft.
Steel Strain Actual	0.019
Minimum Steel Strain Required	0.005

54 - #7 Horizontal bars equally spaced @9.06 in., each way, top and bottom, total of 216, $A_s = 0.802$ in²/ft

Designed By: SWG
 Date: 08 Sep,20 @ 09:10 AM

Checked By: HA
 Date: 9/8/20

Customer: UNITI TOWERS LLC
Project: 255 FT RT TOWER
Site: LUKA- KY
Engr. File: 235234
Build Code: ANSI/TIA-222-G-2005



Mat Foundation

ver.2.2.14

Pier Design

Controlling Load Case: I [Wind w/Max. Dead Load]

C = 532.31 kips	Vc = 57.36 kips	Mc = 258.12 ft-kips
T = 437.61 kips	Vt = 49.50 kips	Mt = 222.75 ft-kips
Fy = 60.00 ksi	Fyt = 60.00 ksi	L.F. = 1.00
H = 42.00 in.	Ds = 33.00 in.	F'c = 4.50 ksi
U = 1.00	Irs = Round	

*** NOTE: Pier cross section is Round ***

SUMMARY OF ANALYSIS

Minimum area of steel required	= 13.941 in ²	(Rhomin = 0.0101)
Area of steel provided.	= 13.991 in ²	(Rhoactual = 0.0101)
Maximum steel area limit	= 110.836 in ²	(Rhomax = 0.0800)

(14) #9 Vertical Bars equally spaced w/ #5 Circular Ties @ 6" on center.

CIRCULAR TIE DATA

Size	Spacing
3	6.3
4	11.4
5	12.0
6	12.0

Use spacing shown or maximum tie spacing specified in ACI 318, Section 7.10.5 for compression reinforcement, whichever is less.

DEVELOPMENT LENGTH MODIFIERS FOR BAR DEVELOPMENT

Modifier for tension development = 1.000

Modifier for compression development = 0.174

REQUIRED Ld = MODIFIER * BASIC Ld * ACI 318 MODIFIERS, (12 in. min.)

Designed By: SWG
Date: 08 Sep,20 @ 09:10 AM

Checked By: HA
Date: 9/8/20

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EXHIBIT D
COMPETING UTILITIES, CORPORATIONS, OR PERSONS LIST

KY Public Service Commission

Master Utility Search

- Search for the utility of interest by using any single or combination of criteria.
- Enter Partial names to return the closest match for Utility Name and Address/City/Contact entries.

Utility ID Utility Name Address/City/Contact Utility Type Status

▼ Active ▼

	Utility ID	Utility Name	Utility Type	Class	City	State
View	4111300	2600Hz, Inc. dba ZSWITCH	Cellular	D	San Francisco	CA
View	4108300	Air Voice Wireless, LLC	Cellular	B	Bloomfield Hill	MI
View	4110650	Alliant Technologies of KY, L.L.C.	Cellular	D	Morristown	NJ
View	4111900	ALLNETAIR, INC.	Cellular	C	West Palm Beach	FL
View	44451184	Alltel Corporation d/b/a Verizon Wireless	Cellular	A	Lisle	IL
View	4110850	AltaWorx, LLC	Cellular	D	Fairhope	AL
View	4107800	American Broadband and Telecommunications Company	Cellular	D	Toledo	OH
View	4108650	AmeriMex Communications Corp.	Cellular	D	Dunedin	FL
View	4105100	AmeriVision Communications, Inc. d/b/a Affinity 4	Cellular	D	Virginia Beach	VA
View	4110700	Andrew David Balholm dba Norcell	Cellular	D	Buford	GA
View	4105700	Assurance Wireless USA, L.P.	Cellular	A	Atlanta	GA
View	4108600	BCN Telecom, Inc.	Cellular	D	Morristown	NJ
View	4106000	Best Buy Health, Inc. d/b/a GreatCall d/b/a Jitterbug	Cellular	A	San Diego	CA
View	4110550	Blue Casa Mobile, LLC	Cellular	D	Santa Barbara	CA
View	4111050	BlueBird Communications, LLC	Cellular	D	New York	NY
View	4202300	Bluegrass Wireless, LLC	Cellular	A	Elizabethtown	KY

View	4107600	Boomerang Wireless, LLC	Cellular	D	Hiawatha	IA
View	4105500	BullsEye Telecom, Inc.	Cellular	D	Southfield	MI
View	4100700	Cellco Partnership dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
View	4111150	Comcast OTR1, LLC	Cellular	C	Phoeniexville	PA
View	4101900	Consumer Cellular, Incorporated	Cellular	A	Portland	OR
View	4106400	Credo Mobile, Inc.	Cellular	A	San Francisco	CA
View	4108850	Cricket Wireless, LLC	Cellular	A	San Antonio	TX
View	4111500	CSC Wireless, LLC d/b/a Altice Wireless	Cellular	D	Long Island City	NY
View	10640	Cumberland Cellular Partnership	Cellular	A	Elizabethtown	KY
View	4111650	DataBytes, Inc.	Cellular	D	Rogers	AR
View	4112000	DISH Wireless L.L.C.	Cellular	C	Englewood	CO
View	4111200	Dynalink Communications, Inc.	Cellular	C	Brooklyn	NY
View	4111800	Earthlink, LLC	Cellular	C	Atlanta	GA
View	4101000	East Kentucky Network, LLC dba Appalachian Wireless	Cellular	A	Ivel	KY
View	4002300	Easy Telephone Service Company dba Easy Wireless	Cellular	D	Ocala	FL
View	4109500	Enhanced Communications Group, LLC	Cellular	D	Bartlesville	OK
View	4110450	Excellus Communications, LLC	Cellular	D	Chattanooga	TN
View	4105900	Flash Wireless, LLC	Cellular	C	Concord	NC
View	4104800	France Telecom Corporate Solutions L.L.C.	Cellular	D	Oak Hill	VA
View	4111750	Gabb Wireless, Inc.	Cellular	D	Provo	UT
View	4109350	Global Connection Inc. of America	Cellular	D	Norcross	GA
View	4102200	Globalstar USA, LLC	Cellular	B	Covington	LA
View	4112050	GLOTELL US, Corp.	Cellular	C	Hallandale	FL
View	4109600	Google North America Inc.	Cellular	A	Mountain View	CA
View	33350363	Granite Telecommunications, LLC	Cellular	D	Quincy	MA
View	10630	GTE Wireless of the Midwest dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
View	4111350	HELLO MOBILE TELECOM LLC	Cellular	D	Dania Beach	FL
View	4103100	i-Wireless, LLC	Cellular	B	Newport	KY
View	4109800	IM Telecom, LLC d/b/a Infiniti Mobile	Cellular	D	Dallas	TX
View	4111950	J Rhodes Enterprises LLC	Cellular	C	Gulf Breeze	FL
View	22215360	KDDI America, Inc.	Cellular	D	Staten Island	NY
View	10872	Kentucky RSA #1 Partnership	Cellular	A	Basking Ridge	NJ
View	10680	Kentucky RSA #3 Cellular General	Cellular	A	Elizabethtown	KY
View	10681	Kentucky RSA #4 Cellular	Cellular	A	Elizabethtown	KY

		General				
View	4109550	Kynect Communications, LLC	Cellular	D	Dallas	TX
View	4111250	Liberty Mobile Wireless, LLC	Cellular	D	Sunny Isles Beach	FL
View	4111400	Locus Telecommunications, LLC	Cellular	A	Fort Lee	NJ
View	4107300	Lycamobile USA, Inc.	Cellular	D	Newark	NJ
View	4108800	MetroPCS Michigan, LLC	Cellular	A	Bellevue	WA
View	4111700	Mint Mobile, LLC	Cellular	D	Costa Mesa	CA
View	4109650	Mitel Cloud Services, Inc.	Cellular	D	Mesa	AZ
View	4111850	Mobi, Inc.	Cellular	C	Honolulu	HI
View	4202400	New Cingular Wireless PCS, LLC dba AT&T Mobility, PCS	Cellular	A	San Antonio	TX
View	4000800	Nextel West Corporation	Cellular	D	Overland Park	KS
View	4001300	NPCR, Inc. dba Nextel Partners	Cellular	D	Overland Park	KS
View	4001800	OnStar, LLC	Cellular	A	Detroit	MI
View	4110750	Onvoy Spectrum, LLC	Cellular	D	Chicago	IL
View	4109050	Patriot Mobile LLC	Cellular	D	Irving	TX
View	4110250	Plintron Technologies USA LLC	Cellular	D	Bellevue	WA
View	33351182	PNG Telecommunications, Inc. dba PowerNet Global Communications	Cellular	D	Cincinnati	OH
View	4107700	Puretalk Holdings, LLC	Cellular	A	Covington	GA
View	4106700	Q Link Wireless, LLC	Cellular	A	Dania	FL
View	4108700	Ready Wireless, LLC	Cellular	C	Hiawatha	IA
View	4110500	Republic Wireless, Inc.	Cellular	A	Raleigh	NC
View	4106200	Rural Cellular Corporation	Cellular	A	Basking Ridge	NJ
View	4108550	Sage Telecom Communications, LLC dba TruConnect	Cellular	D	Los Angeles	CA
View	4109150	Selectel, Inc. d/b/a Selectel Wireless	Cellular	D	Fremont	NE
View	4110150	Spectrotel, Inc. d/b/a Touch Base Communications	Cellular	D	Neptune	NJ
View	4111450	Spectrum Mobile, LLC	Cellular	A	St. Louis	MO
View	4200100	Sprint Spectrum, L.P.	Cellular	A	Atlanta	GA
View	4200500	SprintCom, Inc.	Cellular	A	Atlanta	GA
View	4111600	STX Group LLC dba Twigby	Cellular	D	Murfreesboro	TN
View	4110200	T C Telephone LLC d/b/a Horizon Cellular	Cellular	D	Red Bluff	CA
View	4202200	T-Mobile Central, LLC dba T-Mobile	Cellular	A	Bellevue	WA
View	4002500	TAG Mobile, LLC	Cellular	D	Plano	TX
View	4109700	Telecom Management, Inc. dba Pioneer Telephone	Cellular	D	Portland	ME
View	4107200	Telefonica USA, Inc.	Cellular	D	Miami	FL
View	4108900	Telrite Corporation	Cellular	D	Covington	GA

View	4108450	Tempo Telecom, LLC	Cellular	B	Atlanta	GA
View	4109000	Ting, Inc.	Cellular	A	Toronto	ON
View	4110400	Torch Wireless Corp.	Cellular	D	Jacksonville	FL
View	4103300	Touchtone Communications, Inc.	Cellular	D	Whippany	NJ
View	4104200	TracFone Wireless, Inc.	Cellular	D	Miami	FL
View	4002000	Truphone, Inc.	Cellular	D	Durham	NC
View	4110300	UVNV, Inc. d/b/a Mint Mobile	Cellular	D	Costa Mesa	CA
View	4110800	Visible Service LLC	Cellular	D	Basking Ridge	NJ
View	4106500	WiMacTel, Inc.	Cellular	D	Palo Alto	CA
View	4110950	Wing Tel Inc.	Cellular	D	New York	NY

EXHIBIT E
FAA



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

Aeronautical Study No.
 2020-ASO-6261-OE

Issued Date: 03/12/2020

Kristy Hurst
 B+T Group Holdings, Inc.
 1717 S. Boulder Ave.
 Suite 300
 Tulsa, OK 74119

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

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

Structure: Antenna Tower KYBGN2020 Luka
 Location: Grand Rivers, KY
 Latitude: 37-03-29.40N NAD 83
 Longitude: 88-14-10.90W
 Heights: 347 feet site elevation (SE)
 267 feet above ground level (AGL)
 614 feet above mean sea level (AMSL)

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

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 L Change 2, Obstruction Marking and Lighting, a med-dual system - Chapters 4,8(M-Dual),&12.

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

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

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

This determination expires on 09/12/2021 unless:

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

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

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (718) 553-2611, or angelique.eersteling@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2020-ASO-6261-OE.

Signature Control No: 431743405-433333937
Angelique Eersteling
Technician

(DNE)

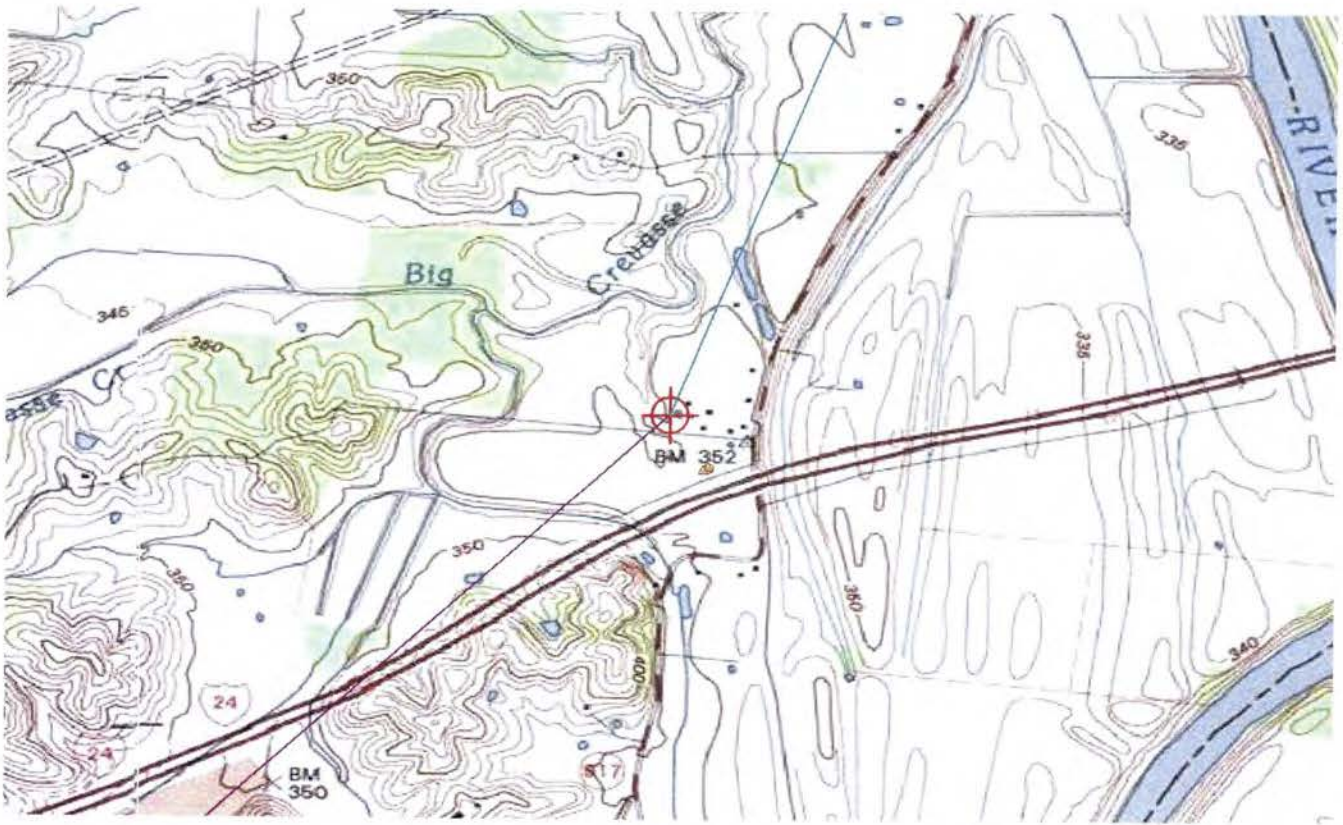
Attachment(s)
Frequency Data
Map(s)

cc: FCC

Frequency Data for ASN 2020-ASO-6261-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	dBW
21.2	23.6	GHz	42	dBW
614	698	MHz	1000	W
614	698	MHz	2000	W
698	806	MHz	1000	W
806	901	MHz	500	W
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
929	932	MHz	3500	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1670	1675	MHz	500	W
1710	1755	MHz	500	W
1850	1910	MHz	1640	W
1850	1990	MHz	1640	W
1930	1990	MHz	1640	W
1990	2025	MHz	500	W
2110	2200	MHz	500	W
2305	2360	MHz	2000	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W
2496	2690	MHz	500	W

Verified Map for ASN 2020-ASO-6261-OE



TOPO Map for ASN 2020-ASO-6261-OE

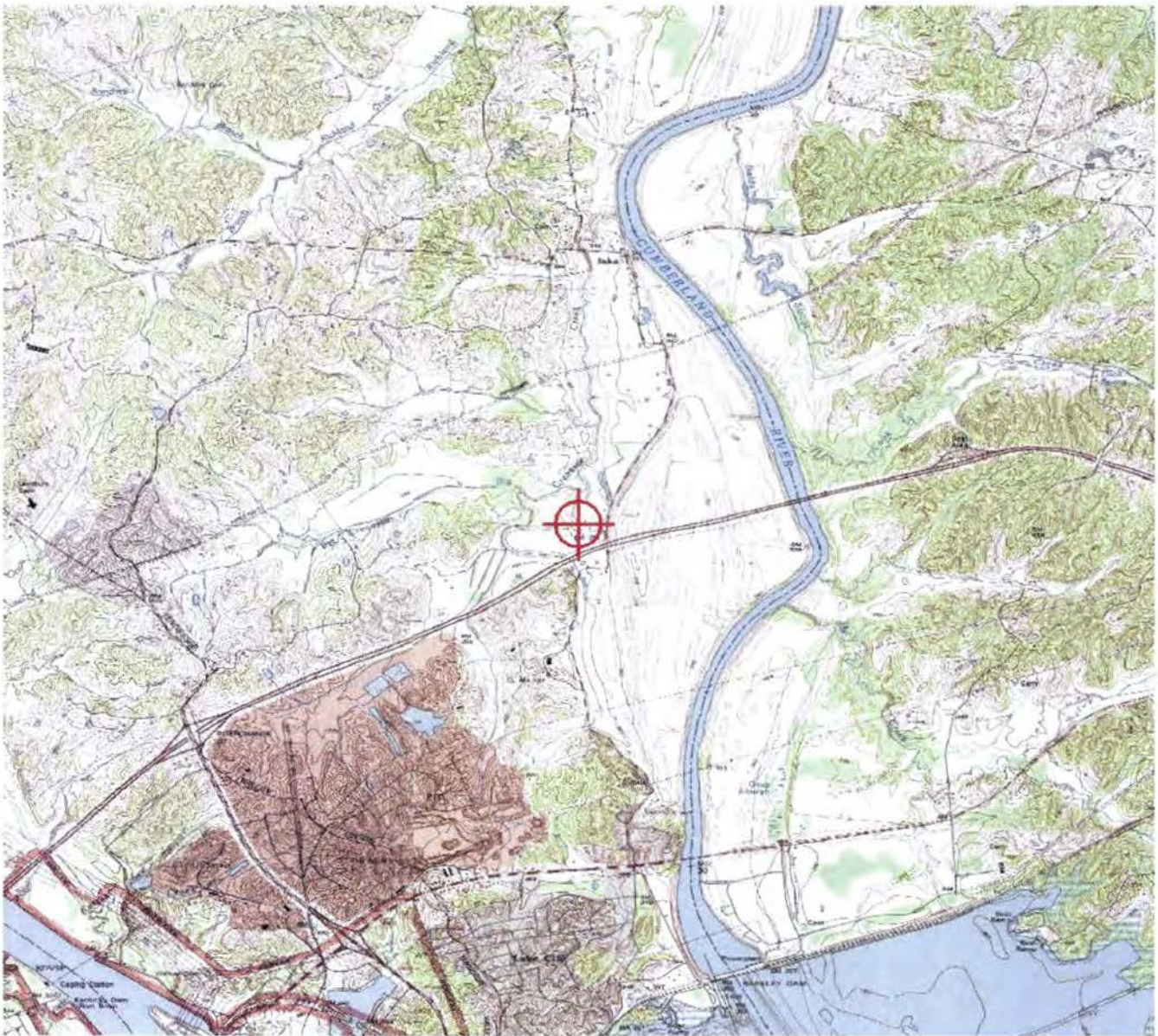


EXHIBIT F
KENTUCKY AIRPORT ZONING COMMISSION



ANDY BESHEAR
Governor

KENTUCKY AIRPORT ZONING COMMISSION
Office of Audits, 200 Mero Street, 4th floor
Frankfort, KY 40622
www.transportation.ky.gov
502-782-4043

APPROVAL OF APPLICATION

August 13, 2020

APPLICANT
Uniti Towers
B&T Group - Patricia Parr
10802 Executive Center Dr. Ste 300
Little Rock, AR 72211

SUBJECT: AS-LIVINGSTON-M34-2020-071

STRUCTURE: Antenna Tower
LOCATION: Grand Rivers, KY
COORDINATES: 37° 3' 29.4" N / 88° 14' 10.9" W
HEIGHT: 267' AGL/614' AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct 267' AGL/614' AMSL Antenna Tower near Grand Rivers, KY 37° 3' 29.4" N / 88° 14' 10.9" W.

This permit is valid for a period of 18 Month(s) from its date of issuance. If construction is not completed within said 18-Month period, this permit shall lapse and be void, and no work shall be performed without the issuance of a new permit.

Duel - Red & Medium Intensity White Obstruction Lighting Required

Randall S. Royer

Randall S. Royer, Executive Director
Office of Audits
Acting Administrator
Randall.Royer@ky.gov
Jason.Salazar-Munoz@ky.gov



An Equal Opportunity Employer M/F/D

EXHIBIT G
GEOTECHNICAL REPORT



GEOTECHNICAL INVESTIGATION REPORT

August 6, 2020

Prepared For:

B+T Group



Luka

KYBGN2020

Proposed 255-Foot Self-Supporting Tower

Near Reed Road and Stringtown Road, Luka (Livingston County), Kentucky 42045

Latitude N 37° 03 '29.4" Longitude W 88° 14' 10.9"

Delta Oaks Group Project GEO20-06734-08

Revision 0

Performed By:

Justin Brosseau, E.I.

Reviewed By:

Joseph V. Borrelli, Jr., P.E.





INTRODUCTION

This geotechnical investigation report has been completed for the proposed 255-foot self-supporting tower located Near Reed Road and Stringtown Road in Luka (Livingston County), Kentucky. The purpose of this investigation was to provide engineering recommendations and subsurface condition data at the proposed tower location. A geotechnical engineering interpretation of the collected information was completed and utilized to suggest design parameters regarding the adequacy of the structure's proposed foundation capacity under various loading conditions. This report provides the scope of the geotechnical investigation; geologic material identification; results of the geotechnical laboratory testing; and design parameter recommendations for use in the design of the telecommunication facility's foundation and site development.

SITE CONDITION SUMMARY

The proposed tower and compound are located on an agricultural field exhibiting a generally flat topography across the tower compound and subject property.

REFERENCES

- Survey Drawings, prepared by Point to Point Land Surveyors, dated January 13, 2020
- TIA Standard (TIA-222-G), dated August 2005

SUBSURFACE FIELD INVESTIGATION SUMMARY

The subsurface field investigation was conducted through the advancement of one mechanical soil test boring to the termination depth of 51.5 feet bgs. Samples were obtained at selected intervals in accordance with ASTM D 1586. The sampling was conducted at the staked centerline of the proposed tower. Soil samples were transported to our laboratory and classified by a geotechnical engineer in accordance with ASTM D 2487. A detailed breakdown of the material encountered in our subsurface field investigation can be found in the boring log presented in the Appendix of this report.

A boring plan portraying the spatial location of the boring in relation to the proposed tower, tower compound and immediate surrounding area can be found in the Appendix.



SUBSURFACE CONDITION SUMMARY

The following provides a general overview of the site's subsurface conditions based on the data obtained during our field investigation.

FILL

Topsoil was encountered during the subsurface field investigation from the existing ground surface to a depth of 0.7 feet bgs.

SOIL

The residual soil encountered in the subsurface field investigation began at a depth of 0.7 feet bgs in the boring and consisted of clayey silt, sandy lean clay, lean clay, and silty clay. The materials ranged from a soft to stiff cohesion.

Auger advancement refusal was not encountered during the subsurface field investigation.

ROCK

Rock was not encountered during the subsurface field investigation.

SUBSURFACE WATER

At the time of drilling, subsurface water was encountered during the subsurface investigation at a depth of 26.0 feet bgs. However, subsurface water elevations can fluctuate throughout the year due to variations in climate, hydraulic parameters, nearby construction activity and other factors.

FROST PENETRATION

The frost penetration depth for Livingston County, Kentucky is 20 inches (1.7 feet).

CORROSIVITY

Soil resistivity was performed in accordance with ASTM G187 with a test result of 2,875 ohms-cm.



FOUNDATION DESIGN SUMMARY

In consideration of the provided tower parameters and the determined soil characteristics, Delta Oaks Group recommends utilizing a drilled shaft foundation for the proposed structure. Delta Oaks Group does not recommend utilizing a shallow foundation due to the presence of weak soils. The strength parameters presented in the following sections can be utilized for design of the foundation.

GENERAL SUBSURFACE STRENGTH PARAMETERS

Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-1	0.0 – 0.7	TOPSOIL	105	0	0
	0.7 – 3.5	CL – ML	105	0	750
	3.5 – 15.0	CL	110	0	1,500
	15.0 – 30.0	CL	105 / 43	0	500
	30.0 – 35.0	CL	110 / 48	0	1,000
	35.0 – 40.0	CL – ML	105 / 43	0	500
	40.0 – 45.0	CL – ML	105 / 43	0	400
	45.0 – 50.0	CL – ML	110 / 48	0	1,500
	50.0 – 51.5	CL – ML	105 / 43	0	500

- The buoyant unit weight of soil should be utilized below a depth of 26.0 feet bgs.
- The unit weight provided assumes overburden soil was compacted to a minimum of 95% of the maximum dry density as obtained by the standard Proctor method (ASTM D 698) and maintained a moisture content within 3 percent of optimum
- The values provided for phi angle and cohesion should be considered ultimate.



SUBSURFACE STRENGTH PARAMETERS - DRILLED SHAFT FOUNDATION

Boring	Depth (bgs)	Net Ultimate Bearing Capacity (psf)	Ultimate Skin Friction - Compression (psf)	Ultimate Skin Friction - Uplift (psf)
B-1	0.0 – 3.0	-	-	-
	3.0 – 4.0	13,180	410	410
	4.0 – 7.0	13,200	820	820
	7.0 – 10.0	11,170	820	820
	10.0 – 15.0	3,880	820	820
	15.0 – 20.0	3,650	270	270
	20.0 – 25.0	3,470	270	270
	25.0 – 30.0	5,430	270	270
	30.0 – 35.0	2,810	550	550
	35.0 – 40.0	1,920	270	270
	40.0 – 45.0	6,330	210	210
	45.0 – 50.0	2,350	820	820
	50.0 – 51.5	2,260	270	270

- The top 3.0 feet of soil should be ignored due the potential soil disturbance during construction.
- The bearing capacity can be increased by 1/3 for transient loading.
- The values presented assume the concrete is cast-in-place against earth walls and any casing utilized during construction of the foundation was removed.
- Delta Oaks Group recommends an appropriate factor of safety be utilized for the design of the foundation.



SUBSURFACE STRENGTH PARAMETERS – SUPPORT STRUCTURE FOUNDATION

Boring	Depth (bgs)	Net Ultimate Bearing Capacity (psf)	Minimum Design Footing Width (ft)	Modulus of Subgrade Reaction (pci)
B-1	2.0	4,670	2.0	150
	3.0	5,060		
	4.0	10,900		300
	5.0	11,680		

- Delta Oaks Group recommends utilizing a slab on grade in conjunction with continuous perimeter footings that bear on residual soil or properly compacted structural fill placed in accordance with the recommendations provided in the CONSTRUCTION section of this report.
- The slab on grade should be properly reinforced to prevent concrete cracking and shrinkage.
- The foundation should bear a minimum of 2.0 feet bgs.
- A sliding friction factor of 0.30 can be utilized along the base of the proposed foundation.
- An Ultimate Passive Pressure Table is presented on the following page. An appropriate reduction should be considered in accordance with local building code frost penetration depth.
- Delta Oaks Group recommends an appropriate factor of safety be utilized for the design of the foundation.



ULTIMATE PASSIVE PRESSURE VS. DEPTH – SUPPORT STRUCTURE FOUNDATION

Soil Layers (feet)		Moist Unit Weight	Phi Angle	Cohesion	PV	KP	Ph
Top	0.0	105	0	0	0.00	1.00	0.00
Bottom	0.7	105	0	0	73.50	1.00	36.75
Top	0.7	105	0	750	73.50	1.00	786.75
Bottom	1.7	105	0	750	178.50	1.00	839.25
Top	1.7	105	0	750	178.50	1.00	1678.50
Bottom	3.5	105	0	750	367.50	1.00	1867.50
Top	3.5	110	0	1500	367.50	1.00	3367.50
Bottom	10.0	110	0	1500	1082.50	1.00	4082.50



CONSTRUCTION

SITE DEVELOPMENT

The proposed access road and tower compound should be evaluated by a Geotechnical Engineer, or their representative, after the removal or "cutting" of the areas to design elevation but prior to the placement of any structural fill material to verify the presence of unsuitable or weak material. Unsuitable or weak materials should be undercut to a suitable base material as determined by a Geotechnical Engineer, or their representative. Backfill of any undercut area(s) should be conducted in accordance with the recommendations provided in the *STRUCTURAL FILL PLACEMENT* section of this report.

Excavations should be sloped or shored in accordance and compliance with OSHA 29 CFR Part 1926, Excavation Trench Safety Standards as well as any additional local, state and federal regulations.

STRUCTURAL FILL PLACEMENT

Structural fill materials should be verified, prior to utilization, to have a minimum unit weight of 110 pcf (pounds per cubic foot) when compacted to a minimum of 95% of its maximum dry density and within plus or minus 3 percentage points of optimum moisture. Materials utilized should not contain more than 5 percent by weight of organic matter, waste, debris or any otherwise deleterious materials. The Liquid Limit should be no greater than 40 with a Plasticity Index no greater than 20. Structural fill material should contain a maximum particle size of 4 inches with 20 percent or less of the material having a particle size between 2 and 4 inches. Backfill should be placed in thin horizontal lifts not to exceed 8 inches (loose) in large grading areas and 4 inches (loose) where small handheld or walk-behind compaction equipment will be utilized. The potential suitability of on-site materials to be utilized as fill should be evaluated by a Geotechnical Engineer, or their representative just prior to construction.

During construction structural fill placement should be monitored and tested. This should include at minimum, visual observation as well as a sufficient amount of in-place field density tests by a Geotechnical Engineer, or their representative. Materials should be compacted to a minimum of 95% of the maximum dry density as determined by ASTM D 698 (standard Proctor method). Moisture contents should be maintained to within plus or minus 3 percentage points of the optimum moisture content.

SHALLOW FOUNDATIONS

Foundation excavation(s) should be evaluated by a Geotechnical Engineer, or their representative, prior to reinforcing steel and concrete placement. This evaluation should include visual observation to verify a level bearing surface; vertical side-walls with no protrusions, sloughing or caving; and the exposed bearing surface is free of deleterious material, loose soil and standing water. Excavation dimensions should be verified and testing performed on the exposed bearing surface to verify compliance with design recommendations. Bearing testing should be conducted in accordance with ASTM STP399 (Dynamic Cone Penetrometer). A 6-inch layer of compacted crushed stone should be installed prior to reinforcing steel and concrete placement. If subsurface water is encountered during excavation dewatering methods such as sump pumps or well points may be required.



DRILLED SHAFT FOUNDATIONS

Drilled shaft foundations (caissons) are typically installed utilizing an earth auger to reach the design depth of the foundation. Specialized roller bits or core bits can be utilized to penetrate boulders or rock. The equipment utilized should have cutting teeth to result in an excavation with little or no soil smeared or caked on the excavation sides with spiral-like corrugated walls. The drilled shaft design diameter should be maintained throughout the excavation with a plumbness tolerance of 2 percent of the length and an eccentricity tolerance of 3 inches from plan location. A removable steel casing can be installed in the shaft to prevent caving of the excavation sides due to soil relaxation. Upon completion of the drilling and casing placement, loose soils and subsurface water greater than 3-inches in depth should be removed from the bottom of the excavation for the "dry" installation method. The drilled shaft installation should be evaluated by a Geotechnical Engineer, or their representative, to verify suitable end bearing conditions, design diameter and bottom cleanliness. The evaluation should be conducted immediately prior to as well as during concrete placement operations.

The drilled shaft should be concreted as soon as reasonably practical after excavation to reduce the deterioration of the supporting soils to prevent potential caving and water intrusion. A concrete mix design with a slump of 6 to 8 inches employed in conjunction with the design concrete compressive strength should be utilized for placement. Super plasticizer may be required to obtain the recommended slump range. During placement, the concrete may fall freely through the open area in the reinforcing steel cage provided it does not strike the reinforcing steel and/or the casing prior to reaching the bottom of the excavation. The removable steel casing should be extracted as concrete is placed. During steel casing removal a head of concrete should be maintained above the bottom of the casing to prevent soil and water intrusion into the concrete below the bottom of the casing.

If subsurface water is anticipated and/or weak soil layers are encountered drilled shafts are typically installed utilizing the "wet" method by excavating beneath a drilling mud slurry. The drilling mud slurry is added to the drilled shaft excavation after groundwater has been encountered and/or the sides of the excavation are observed to be caving or sloughing. Additional inspection by a Geotechnical Engineer, or their representative, during the "wet" method should consist of verifying maintenance of sufficient slurry head, monitoring the specific gravity, pH and sand content of the drilling slurry, and monitoring any changes in the depth of the excavation between initial approval and just prior to concreting.

Concrete placement utilizing the "wet" method is conducted through a tremie pipe at the bottom of the excavation with the drilling mud slurry level maintained at a minimum of 5 feet or one shaft diameter, whichever is greater, above the ground water elevation. The bottom of the tremie should be set one tremie pipe diameter above the excavation. A closure flap at the bottom of the tremie or a sliding plug introduced into the tremie before the concrete is recommended to reduce the potential contamination of the concrete by the drilling mud slurry. The bottom of the tremie must be maintained in the concrete during placement. Additional concrete should be placed through the tremie causing the slurry to overflow from the excavation in order to reduce the potential for the development of "slurry pockets" remaining in the drilled shaft.



QUALIFICATIONS

The design parameters and conclusions provided in this report have been determined in accordance with generally accepted geotechnical engineering practices and are considered applicable to a rational degree of engineering certainty based on the data available at the time of report preparation and our practice in this geographic region. All recommendations and supporting calculations were prepared based on the data available at the time of report preparation and knowledge of typical geotechnical parameters in the applicable geographic region.

The subsurface conditions used in the determination of the design recommendations contained in this report are based on interpretation of subsurface data obtained at specific boring locations. Irrespective of the thoroughness of the subsurface investigation, the potential exists that conditions between borings will differ from those at the specific boring locations, that conditions are not as anticipated during the original analysis, or that the construction process has altered the soil conditions. That potential is significantly increased in locations where existing fill materials are encountered. Additionally, the nature and extent of these variations may not be evident until the commencement of construction. Therefore, a geotechnical engineer, or their representative, should observe construction practices to confirm that the site conditions do not differ from those conditions anticipated in design. If such variations are encountered, Delta Oaks Group should be contacted immediately in order to provide revisions and/or additional site exploration as necessary.

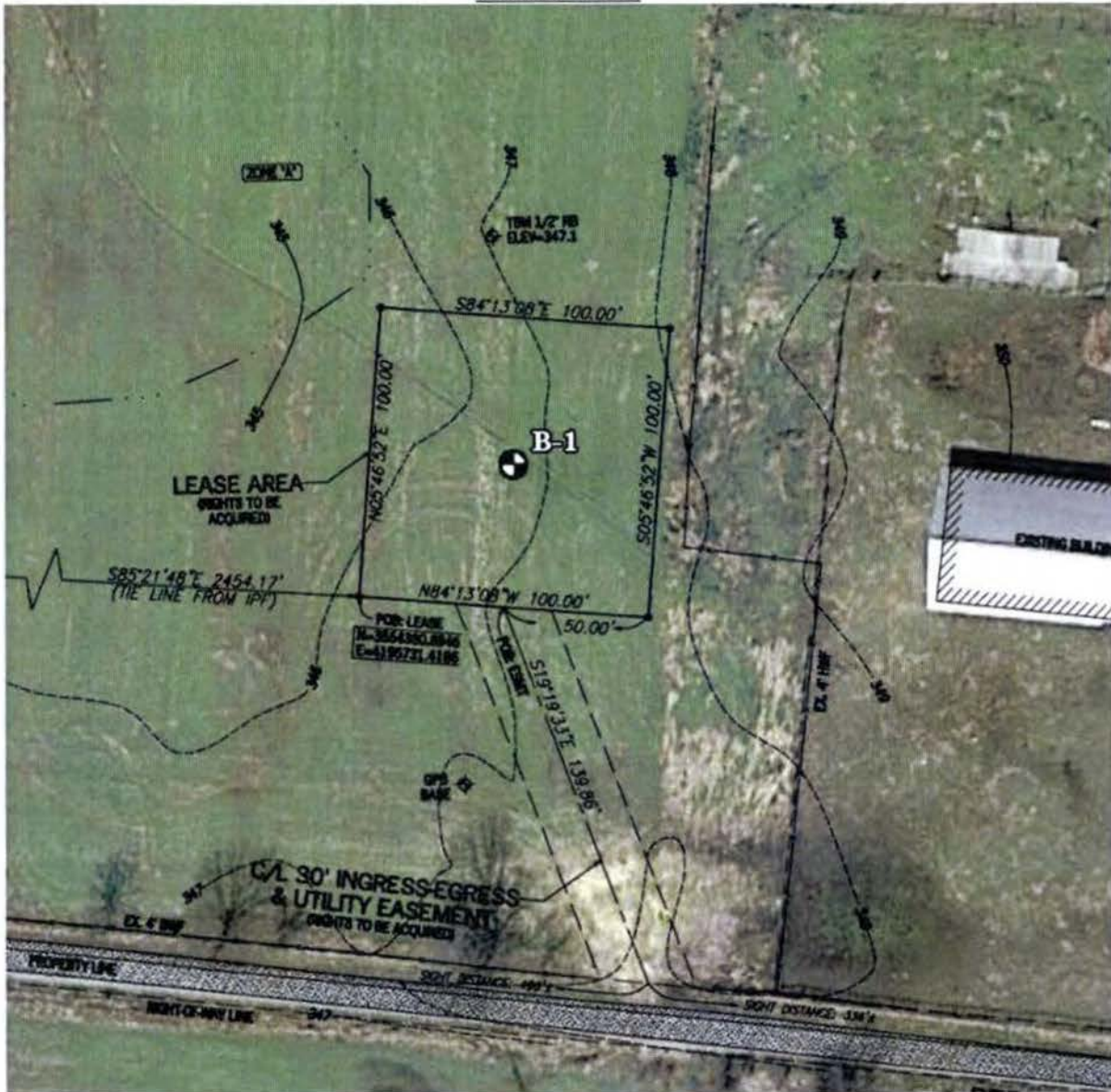
Samples obtained during our subsurface field investigation will be retained by Delta Oaks Group for a period of 30 days unless otherwise instructed by B+T Group. No warranty, expressed or implied, is presented.

Delta Oaks Group appreciates the opportunity to be of service for this Geotechnical Investigation Report. Please do not hesitate to contact Delta Oaks Group with any questions or should you require additional service on this project.



APPENDIX

BORING PLAN





PROJECT NAME Luka

CLIENT B+T Group

PROJECT NUMBER GEO20-06734-08

Boring No.: B-1

PAGE 1 OF 1

PROJECT LOCATION Near Reed Road and Stringtown Road, Luka, Kentucky 42045

DATE DRILLED : 7/31/2020

DRILLING METHOD : Hollow Stem Auger

GROUND ELEVATION : 348

BORING DEPTH (ft) : 51.5

GROUND WATER LEVELS:

▽ AT TIME OF DRILLING : 26.00 ft

▼ AT END OF DRILLING : — Not Measured

▼ AFTER DRILLING : — Not Measured

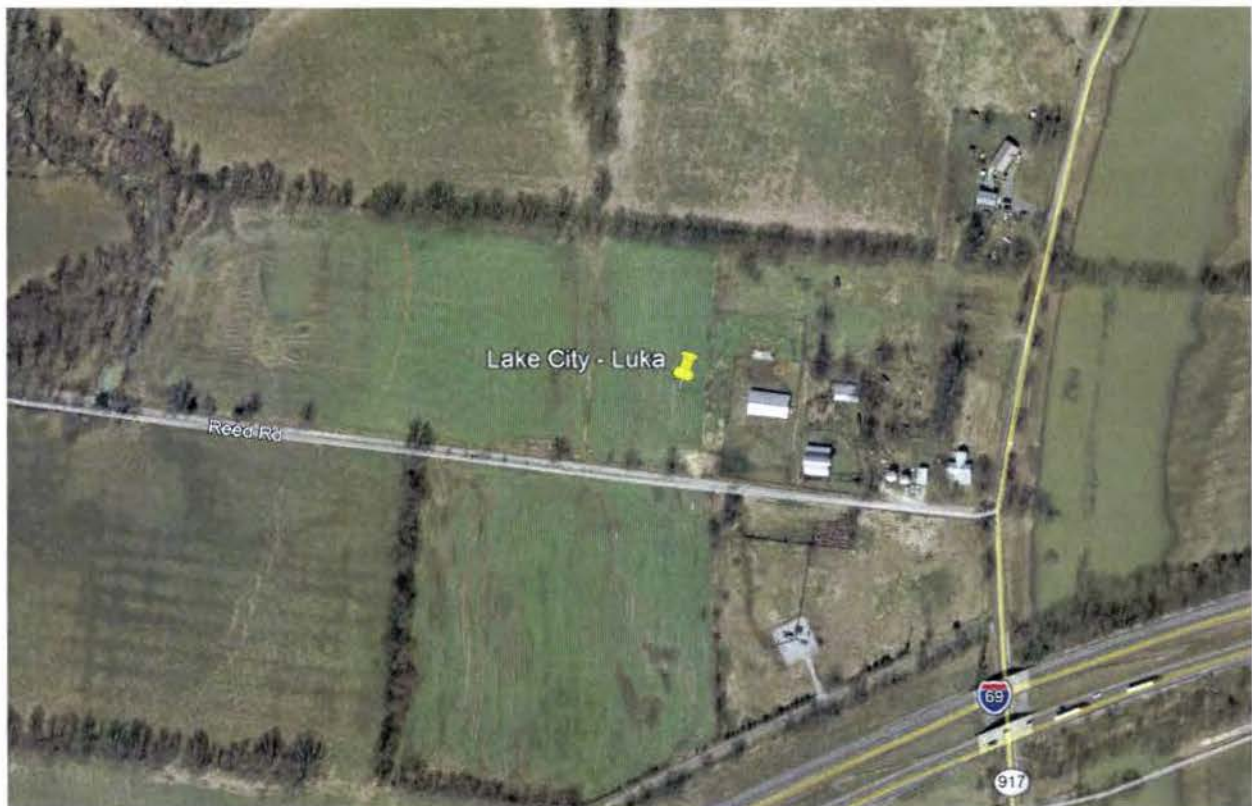
DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLE TYPE	MATERIAL CLASSIFICATION	Pocket Penetrometer (tsf)	BLOWS 1st	BLOWS 2nd	BLOWS 3rd	N VALUE	▲ SPT N VALUE ▲												
									10	20	30	40	50	60	70	80	90				
0	TOPSOIL																				
0-1	CLAYEY SILT (CL - ML), firm, tan, trace sand and gravel, moist	X	CL-ML		3	3	4	7	7												
1-5	SANDY LEAN CLAY (CL), stiff, brown and gray, with silt, trace gravel, moist	X	CL		3	5	6	11	11												
5-10	LEAN CLAY (CL), stiff, brown and gray, with silt, trace sand and gravel, moist	X	CL		4	4	7	11	11												
10-15		X			4	4	7	11	11												
15-20	- Firm	X			2	2	3	5	5												
20-25		X			2	3	3	6	6												
25-30		X			2	3	2	5	5												
30-35	- Stiff	X			3	4	5	9	9												
35-40	SILTY CLAY (CL - ML), firm, gray, trace sand, moist	X	CL-ML		3	2	3	5	5												
40-45	- Soft	X			3	2	2	4	4												
45-50	-- Stiff, with sand	X			3	4	7	11	11												
50-51.5	- Firm	X			2	2	3	5	5												

Bottom of borehole at 51.5 feet.

EXHIBIT H
DIRECTIONS TO WCF SITE

Driving Directions to Proposed Tower Site

1. Beginning at the Livingston County Judge Executive's Office, located at 321 Court Street, Smithland, KY 42081, head southeast (toward State Street) on Court Street and travel approximately 0.4 miles.
2. Continue onto Luka Road and travel approximately 11.0 miles.
3. Turn left onto KY-93 S and travel approximately 0.4 miles.
4. Stay right and continue onto KY-917 and travel approximately 1.7 miles.
5. Turn right onto Reed Road and travel approximately 0.1 miles.
6. The site is located on the right at 880 Reed Road, Grand Rivers, KY 42045.
7. The site coordinates are:
 - a. North 37 deg 03 min 29.38 sec
 - b. West 88 deg 14 min 10.91 sec



Prepared by:
Chris Shouse
Pike Legal Group
1578 Highway 44 East, Suite 6
P.O. Box 396
Shepherdsville, KY 40165-3069
Telephone: 502-955-4400 or 800-516-4293

EXHIBIT I
COPY OF REAL ESTATE AGREEMENT

OPTION AND LEASE AGREEMENT

THIS OPTION AND LEASE AGREEMENT ("**Agreement**"), dated as of the latter of the signature dates below (the "**Effective Date**"), is entered into by J. R. Robertson and Nellie J. Robertson, having a mailing address of 859 Stringtown Road, Grand Rivers, KY 42045, ("**Landlord**") and Uniti Towers LLC, a Delaware limited liability company, having a mailing address of 10802 Executive Center Drive, Benton Building, Suite 300, Little Rock AR 72211 ("**Tenant**").

BACKGROUND

Landlord owns or controls that certain plot, parcel or tract of land, as described on **Exhibit 1**, together with all rights and privileges arising in connection therewith, located near 859 Stringtown Road, in the City/Town of Grand Rivers, County of Livingston, State of Kentucky (collectively, the "**Property**"). Landlord desires to grant to Tenant the right to use a portion of the Property in accordance with this Agreement.

The parties agree as follows:

1. OPTION TO LEASE.

(a) Landlord grants to Tenant an exclusive option (the "**Option**") to lease a certain portion of the Property containing approximately 10,000 square feet including the air space above such ground space, as described on attached **Exhibit 1**, (the "**Premises**"), for the placement of a Communication Facility.

(b) During the Option Term, and during the Term, Tenant and its agents, engineers, surveyors and other representatives will have the right to enter upon the Property to inspect, examine, conduct soil borings, drainage testing, material sampling, radio frequency testing and other geological or engineering tests or studies of the Property (collectively, the "**Tests**"), to apply for and obtain licenses, permits, approvals, or other relief required of or deemed necessary or appropriate at Tenant's sole discretion for its use of the Premises and include, without limitation, applications for zoning variances, zoning ordinances, amendments, special use permits, and construction permits (collectively, the "**Government Approvals**"), initiate the ordering and/or scheduling of necessary utilities, and otherwise to do those things on or off the Property that, in the opinion of Tenant, are necessary in Tenant's sole discretion to determine the physical condition of the Property, the environmental history of the Property, Landlord's title to the Property and the feasibility or suitability of the Property for Tenant's Permitted Use, all at Tenant's expense. Tenant will not be liable to Landlord or any third party on account of any pre-existing defect or condition on or with respect to the Property, whether or not such defect or condition is disclosed by Tenant's inspection. Tenant will restore the Property to its condition as it existed at the commencement of the Option Term, reasonable wear and tear and loss by casualty or other causes beyond Tenant's control excepted.

(c) In consideration of Landlord granting Tenant the Option, Tenant agrees to pay Landlord the sum of [REDACTED] within thirty (30) business days after the Effective Date. The Option may be exercised during an initial term of one (1) year commencing on the Effective Date (the "**Initial Option Term**") which term may be renewed by Tenant for an additional one (1) year (the "**Renewal Option Term**") upon written notification to Landlord and the payment of an additional [REDACTED] no later than five (5) days prior to the expiration date of the Initial Option Term. The Initial Option Term and any Renewal Option Term are collectively referred to as the "**Option Term**."

(d) The Option may be sold, assigned or transferred at any time by Tenant without the written consent of Landlord. Upon notification to Landlord of such sale, assignment, or transfer, Tenant shall immediately be released from any and all liability under this Agreement, including the payment of any rental or other sums due, without any further action.

(e) During the Option Term, Tenant may exercise the Option by notifying Landlord in writing. If Tenant exercises the Option, then Landlord leases the Premises to Tenant subject to the terms and conditions of this Agreement. If Tenant does not exercise the Option during the Initial Option Term or any extension thereof, this Agreement will terminate, and the parties will have no further liability to each other.

(f) If during the Option Term, or during the Term if the Option is exercised, Landlord decides to subdivide, sell, or change the status of the zoning of the Premises, Property or any of Landlord's contiguous, adjoining or surrounding property (the "**Surrounding Property**,") or in the event of a threatened foreclosure, Landlord shall immediately notify Tenant in writing. Landlord agrees that during the Option Term, or during the Term if the Option is exercised, Landlord shall not initiate or consent to any change in the zoning of the Premises, Property or Surrounding Property or impose or consent to any other use or restriction that would prevent or limit Tenant from using the Premises for the Permitted Use. Any and all terms and conditions of this Agreement that by their sense and context are intended to be applicable during the Option Term shall be so applicable.

2. **PERMITTED USE.** Tenant may use the Premises for the transmission and reception of communications signals and the installation, construction, maintenance, operation, repair, replacement and upgrade of communications fixtures and related equipment, cables, accessories and improvements, which may include a suitable support structure ("**Structure**"), associated antennas, equipment shelters or cabinets and fencing and any other items necessary to the successful and secure use of the Premises (collectively, the "**Communication Facility**"), as well as the right to test, survey and review title on the Property; Tenant further has the right but not the obligation to add, modify and/or replace equipment in order to be in compliance with any current or future federal, state or local mandated application, including, but not limited to, emergency 911 communication services, at no additional cost to Tenant or Landlord (collectively, the "**Permitted Use**"). Landlord and Tenant agree that any portion of the Communication Facility that may be conceptually described on **Exhibit I** will not be deemed to limit Tenant's Permitted Use. If **Exhibit I** includes drawings of the initial installation of the Communication Facility, Landlord's execution of this Agreement will signify Landlord's approval of **Exhibit I**. For a period of ninety (90) days following the start of construction, Landlord grants Tenant, its subtenants, licensees and sublicensees, the right to use such portions of the **Surrounding Property** as may reasonably be required during construction and installation of the Communication Facility. Tenant has the right to install and operate transmission cables from the equipment shelter or cabinet to the antennas, electric lines from the main feed to the equipment shelter or cabinet and communication lines from the Property's main entry point to the equipment shelter or cabinet, install a generator and to make other improvements, alterations, upgrades or additions appropriate for Tenant's Permitted Use including the right to construct a fence around the Premises or equipment, install warning signs to make individuals aware of risks, install protective barriers, install any other control measures reasonably required by Tenant's safety procedures or applicable law, and undertake any other appropriate means to secure the Premises or equipment at Tenant's expense. Tenant has the right to modify, supplement, replace, upgrade, expand the Communication Facility (including, for example, increasing the number of antennas or adding microwave dishes) or relocate the Communication Facility within the Premises at any time during the Term. Tenant will be allowed to make such alterations to the Property in order to ensure that the Communication Facility complies with all applicable federal, state or local laws, rules or regulations. In the event Tenant desires to modify or upgrade the Communication Facility, in a manner that requires an additional portion of the Property (the "**Additional Premises**") for such modification or upgrade, Landlord agrees to lease to Tenant the Additional Premises, upon the same terms and conditions set forth herein, except that the Rent shall increase, in conjunction with the lease of the Additional Premises by the amount equivalent to the then-current per square foot rental rate charged by Landlord to Tenant times the square footage of the Additional Premises. Landlord agrees to take such actions and enter into and deliver to Tenant such documents as Tenant reasonably requests in order to effect and memorialize the lease of the Additional Premises to Tenant.

3. **TERM.**

(a) The initial lease term will be five (5) years (the "**Initial Term**"), commencing on the effective date of written notification by Tenant to Landlord of Tenant's exercise of the Option (the "**Term Commencement Date**"). The Initial Term will terminate on the fifth (5th) anniversary of the Term Commencement Date.

(b) This Agreement will automatically renew for seventeen (17) additional five (5) year term(s) (each additional five (5) year term shall be defined as an "**Extension Term**"), upon the same terms and

conditions set forth herein unless Tenant notifies Landlord in writing of Tenant's intention not to renew this Agreement at least sixty (60) days prior to the expiration of the Initial Term or then-existing Extension Term.

(c) Unless (i) Landlord or Tenant notifies the other in writing of its intention to terminate this Agreement at least six (6) months prior to the expiration of the final Extension Term, or (ii) the Agreement is terminated as otherwise permitted by this Agreement prior to the end of the final Extension Term, this Agreement shall continue in force upon the same covenants, terms and conditions for a further term of one (1) year, and for annual terms thereafter ("**Annual Term**") until terminated by either party by giving to the other party written notice of its intention to so terminate at least six (6) months prior to the end of any such Annual Term. Monthly rent during such Annual Terms shall be equal to the Rent paid for the last month of the final Extension Term. If Tenant remains in possession of the Premises after the termination of this Agreement, then Tenant will be deemed to be occupying the Premises on a month-to-month basis (the "**Holdover Term**"), subject to the terms and conditions of this Agreement.

(d) The Initial Term, any Extension Terms, any Annual Terms and any Holdover Term are collectively referred to as the "**Term**".

4. RENT.

(a) Commencing on the first day of the month following the date that Tenant commences construction (the "**Rent Commencement Date**"), Tenant will pay Landlord on or before the fifth (5th) day of each calendar month in advance, [REDACTED] (the "**Rent**"), at the address set forth above. In any partial month occurring after the Rent Commencement Date, Rent will be prorated. The initial Rent payment will be forwarded by Tenant to Landlord within forty-five (45) days after the Rent Commencement Date.

(b) In the first year of an Extension Term, the monthly Rent will increase by [REDACTED] over the Rent paid during the previous five (5) year term, effective the first day of the month in which the anniversary of the Term Commencement Date occurs.

(c) All charges payable under this Agreement such as utilities and taxes shall be billed by Landlord within one (1) year from the end of the calendar year in which the charges were incurred; any charges beyond such period shall not be billed by Landlord, and shall not be payable by Tenant. The foregoing shall not apply to monthly Rent which is due and payable without a requirement that it be billed by Landlord. The provisions of this subsection shall survive the termination or expiration of this Agreement.

5. APPROVALS.

(a) Landlord agrees that Tenant's ability to use the Premises is contingent upon the suitability of the Premises and Property for the Permitted Use and Tenant's ability to obtain and maintain all Government Approvals. Landlord authorizes Tenant to prepare, execute and file all required applications to obtain Government Approvals for the Permitted Use and agrees to reasonably assist Tenant with such applications and with obtaining and maintaining the Government Approvals.

(b) Tenant has the right to obtain a title report or commitment for a leasehold title policy from a title insurance company of its choice and to have the Property surveyed by a surveyor of its choice.

(c) Tenant may also perform and obtain, at Tenant's sole cost and expense, soil borings, percolation tests, engineering procedures, environmental investigation or other tests or reports on, over, and under the Property, necessary to determine if Tenant's use of the Premises will be compatible with Tenant's engineering specifications, system, design, operations or Government Approvals.

6. TERMINATION. This Agreement may be terminated, without penalty or further liability, as follows:

(a) by either party on thirty (30) days prior written notice, if the other party remains in default under Section 15 of this Agreement after the applicable cure periods;

(b) by Tenant upon written notice to Landlord, if Tenant is unable to obtain, or maintain, any required approval(s) or the issuance of a license or permit by any agency, board, court or other governmental authority necessary for the construction or operation of the Communication Facility as now or hereafter intended by Tenant; or if Tenant determines, in its sole discretion that the cost of or delay in obtaining or retaining the same is commercially unreasonable;

(c) by Tenant, upon written notice to Landlord, if Tenant determines, in its sole discretion, due to the title report results or survey results, that the condition of the Premises is unsatisfactory for its intended uses;

(d) by Tenant upon written notice to Landlord for any reason or no reason, at any time prior to commencement of construction by Tenant; or

(e) by Tenant upon sixty (60) days' prior written notice to Landlord for any reason or no reason, so long as Tenant pays Landlord a termination fee equal to three (3) months' Rent, at the then-current rate, provided, however, that no such termination fee will be payable on account of the termination of this Agreement by Tenant under any termination provision contained in any other Section of this Agreement, including the following: Section 5 Approvals, Section 6(a) Termination, Section 6(b) Termination, Section 6(c) Termination, Section 6(d) Termination, Section 11(d) Environmental, Section 18 Condemnation or Section 19 Casualty.

7. **INSURANCE.** During the Option Term and throughout the Term, Tenant will purchase and maintain in full force and effect such general liability policy as Tenant may deem necessary. Said policy of general liability insurance will at a minimum provide a combined single limit of [REDACTED]. Notwithstanding the foregoing, Tenant shall have the right to self-insure such general liability coverage.

8. **INTERFERENCE.**

(a) Prior to or concurrent with the execution of this Agreement, Landlord has provided or will provide Tenant with a list of radio frequency user(s) and frequencies used on the Property as of the Effective Date. Tenant warrants that its use of the Premises will not interfere with those existing radio frequency uses on the Property, as long as the existing radio frequency user(s) operate and continue to operate within their respective frequencies and in accordance with all applicable laws and regulations.

(b) Landlord will not grant, after the Effective Date, a lease, license or any other right to any third party, if the exercise of such grant may in any way adversely affect or interfere with the Communication Facility, the operations of Tenant or the rights of Tenant under this Agreement. Landlord will notify Tenant in writing prior to granting any third party the right to install and operate communications equipment on the Property.

(c) Landlord will not, nor will Landlord permit its employees, tenants, licensees, invitees, agents or independent contractors to interfere in any way with the Communication Facility, the operations of Tenant or the rights of Tenant under this Agreement. Landlord will cause such interference to cease within twenty-four (24) hours after receipt of notice of interference from Tenant. In the event any such interference does not cease within the aforementioned cure period, Landlord shall cease all operations which are suspected of causing interference (except for intermittent testing to determine the cause of such interference) until the interference has been corrected.

(d) For the purposes of this Agreement, "interference" may include, but is not limited to, any use on the Property or Surrounding Property that causes electronic or physical obstruction with, or degradation of, the communications signals from the Communication Facility.

9. **INDEMNIFICATION.**

(a) Tenant agrees to indemnify, defend and hold Landlord harmless from and against any and all injury, loss, damage or liability, costs or expenses in connection with a third party claim (including reasonable attorneys' fees and court costs) arising directly from the installation, use, maintenance, repair or removal of the Communication Facility or Tenant's breach of any provision of this Agreement, except to the extent attributable to the negligent or intentional act or omission of Landlord, its employees, invitees, agents or independent contractors.

(b) Landlord agrees to indemnify, defend and hold Tenant harmless from and against any and all injury, loss, damage or liability, costs or expenses in connection with a third party claim (including reasonable attorneys' fees and court costs) arising directly from the actions or failure to act of Landlord, its employees, invitees agents or independent contractors, or Landlord's breach of any provision of this Agreement, except to the extent attributable to the negligent or intentional act or omission of Tenant, its employees, agents or independent contractors.

(c) The indemnified party: (i) shall promptly provide the indemnifying party with written notice of any claim, demand, lawsuit, or the like for which it seeks indemnification pursuant to this Section and provide the indemnifying party with copies of any demands, notices, summonses, or legal papers received in connection with such claim, demand, lawsuit, or the like; (ii) shall not settle any such claim, demand, lawsuit, or the like without the prior written consent of the indemnifying party; and (iii) shall fully cooperate with the indemnifying party in the defense of the claim, demand, lawsuit, or the like. A delay in notice shall not relieve the indemnifying party of its indemnity obligation, except (1) to the extent the indemnifying party can show it was prejudiced by the delay; and (2) the indemnifying party shall not be liable for any settlement or litigation expenses incurred before the time when notice is given.

10. WARRANTIES.

(a) Each of Tenant and Landlord (to the extent not a natural person) acknowledge and represent that it is duly organized, validly existing and in good standing and has the right, power and authority or capacity, as applicable, to enter into this Agreement and bind itself hereto through the party or individual set forth as signatory for the party below.

(b) Landlord represents, warrants and agrees that: (i) Landlord solely owns the Property as a legal lot in fee simple, or controls the Property by lease or license; (ii) the Property is not and will not be encumbered by any liens, restrictions, mortgages, covenants, conditions, easements, leases, or any other agreements of record or not of record, which would adversely affect Tenant's Permitted Use and enjoyment of the Premises under this Agreement; (iii) as long as Tenant is not in default then Landlord grants to Tenant sole, actual, quiet and peaceful use, enjoyment and possession of the Premises without hindrance or ejection by any persons lawfully claiming under Landlord ; (iv) Landlord's execution and performance of this Agreement will not violate any laws, ordinances, covenants or the provisions of any mortgage, lease or other agreement binding on Landlord; and (v) if the Property is or becomes encumbered by a deed to secure a debt, mortgage or other security interest, Landlord will provide promptly to Tenant a mutually agreeable subordination, non-disturbance and attornment agreement executed by Landlord and the holder of such security interest in the form attached hereto as **Exhibit 10(b)**.

11. ENVIRONMENTAL.

(a) Landlord represents and warrants, except as may be identified in **Exhibit 11** attached to this Agreement, (i) the Property, as of the Effective Date, is free of hazardous substances, including asbestos-containing materials and lead paint, and (ii) the Property has never been subject to any contamination or hazardous conditions resulting in any environmental investigation, inquiry or remediation. Landlord and Tenant agree that each will be responsible for compliance with any and all applicable governmental laws, rules, statutes, regulations, codes, ordinances, or principles of common law regulating or imposing standards of liability or standards of conduct with regard to protection of the environment or worker health and safety, as may now or at any time hereafter be in effect, to the extent such apply to that party's activity conducted in or on the Property.

(b) Landlord and Tenant agree to hold harmless and indemnify the other from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of the indemnifying party for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any action, notice, claim, order, summons, citation, directive, litigation, investigation or proceeding ("**Claims**"), to the extent arising from that party's breach of its obligations or representations under Section 11(a). Landlord agrees to hold harmless and indemnify Tenant from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of Landlord for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any Claims, to the extent arising from subsurface or other contamination of the Property with hazardous substances prior to the Effective Date or from such contamination caused by the acts or omissions of Landlord during the Term. Tenant agrees to hold harmless and indemnify Landlord from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of Tenant for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any Claims, to the extent arising from hazardous substances brought onto the Property by Tenant.

(c) The indemnification provisions contained in this Section 11 specifically include reasonable costs, expenses and fees incurred in connection with any investigation of Property conditions or any clean-up,

remediation, removal or restoration work required by any governmental authority. The provisions of this Section 11 will survive the expiration or termination of this Agreement.

(d) In the event Tenant becomes aware of any hazardous materials on the Property, or any environmental, health or safety condition or matter relating to the Property, that, in Tenant's sole determination, renders the condition of the Premises or Property unsuitable for Tenant's use, or if Tenant believes that the leasing or continued leasing of the Premises would expose Tenant to undue risks of liability to a government agency or other third party, Tenant will have the right, in addition to any other rights it may have at law or in equity, to terminate this Agreement upon written notice to Landlord.

12. ACCESS. At all times throughout the Term of this Agreement, and at no additional charge to Tenant, Tenant and its employees, agents, and subcontractors, will have twenty-four (24) hour per day, seven (7) day per week pedestrian and vehicular access ("Access") to and over the Property, from an open and improved public road to the Premises, for the installation, maintenance and operation of the Communication Facility and any utilities serving the Premises. As may be described more fully in **Exhibit 1**, Landlord grants to Tenant an easement for such Access and Landlord agrees to provide to Tenant such codes, keys and other instruments necessary for such Access at no additional cost to Tenant. Upon Tenant's request, Landlord will execute a separate recordable easement evidencing this right. Landlord shall execute a letter granting Tenant Access to the Property substantially in the form attached as **Exhibit 12**; upon Tenant's request, Landlord shall execute additional letters during the Term. Landlord acknowledges that in the event Tenant cannot obtain Access to the Premises, Tenant shall incur significant damage. If Landlord fails to provide the Access granted by this Section 12, such failure shall be a default under this Agreement. In connection with such default, in addition to any other rights or remedies available to Tenant under this Agreement or at law or equity, Landlord shall pay Tenant, as liquidated damages and not as a penalty, [REDACTED] per day in consideration of Tenant's damages until Landlord cures such default. Landlord and Tenant agree that Tenant's damages in the event of a denial of Access are difficult, if not impossible, to ascertain, and the liquidated damages set forth above are a reasonable approximation of such damages.

13. REMOVAL/RESTORATION. All portions of the Communication Facility brought onto the Property by Tenant will be and remain Tenant's personal property and, at Tenant's option, may be removed by Tenant at any time during or after the Term. Landlord covenants and agrees that no part of the Communication Facility constructed, erected or placed on the Premises by Tenant will become, or be considered as being affixed to or a part of, the Property, it being the specific intention of Landlord that all improvements of every kind and nature constructed, erected or placed by Tenant on the Premises will be and remain the property of Tenant and may be removed by Tenant at any time during or after the Term. Tenant will repair any damage to the Property resulting from Tenant's removal activities. Any portions of the Communication Facility that Tenant does not remove within one hundred twenty (120) days after the later of the end of the Term and cessation of Tenant's operations at the Premises shall be deemed abandoned and owned by Landlord. Notwithstanding the foregoing, Tenant will not be responsible for the replacement of any trees, shrubs or other vegetation.

14. MAINTENANCE/UTILITIES.

(a) Tenant will keep and maintain the Premises in good condition, reasonable wear and tear and damage from the elements excepted. Landlord will maintain and repair the Property and access thereto and all areas of the Premises where Tenant does not have exclusive control, in good and tenable condition, subject to reasonable wear and tear and damage from the elements. Landlord will be responsible for maintenance of landscaping on the Property, including any landscaping installed by Tenant as a condition of this Agreement or any required permit.

(b) Tenant will be responsible for paying on a monthly or quarterly basis all utilities charges for electricity, telephone service or any other utility used or consumed by Tenant on the Premises. In the event Tenant cannot secure its own metered electrical supply, Tenant will have the right, at its own cost and expense, to sub-meter from Landlord. When sub-metering is required under this Agreement, Landlord will read the meter and provide Tenant with an invoice and usage data on a monthly basis. Tenant shall reimburse Landlord for such utility usage at the same rate charged to Landlord by the utility service provider. Landlord further agrees

to provide the usage data and invoice on forms provided by Tenant and to send such forms to such address and/or agent designated by Tenant. Tenant will remit payment within sixty (60) days of receipt of the usage data and required forms. Landlord shall maintain accurate and detailed records of all utility expenses, invoices and payments applicable to Tenant's reimbursement obligations hereunder. Within fifteen (15) days after a request from Tenant, Landlord shall provide copies of such utility billing records to the Tenant in the form of copies of invoices, contracts and cancelled checks. If the utility billing records reflect an overpayment by Tenant, Tenant shall have the right to deduct the amount of such overpayment from any monies due to Landlord from Tenant.

(c) As noted in Section 4(c) above, any utility fee recovery by Landlord is limited to a twelve (12) month period. If Tenant submeters electricity from Landlord, Landlord agrees to give Tenant at least twenty-four (24) hours advance notice of any planned interruptions of said electricity. Landlord acknowledges that Tenant provides a communication service which requires electrical power to operate and must operate twenty-four (24) hours per day, seven (7) days per week. If the interruption is for an extended period of time, in Tenant's reasonable determination, Landlord agrees to allow Tenant the right to bring in a temporary source of power for the duration of the interruption. Landlord will not be responsible for interference with, interruption of or failure, beyond the reasonable control of Landlord, of such services to be furnished or supplied by Landlord.

(d) Tenant will have the right to install utilities, at Tenant's expense, and to improve present utilities on the Property and the Premises. Landlord hereby grants to any service company providing utility or similar services, including electric power and telecommunications, to Tenant an easement over the Property, from an open and improved public road to the Premises, and upon the Premises, for the purpose of constructing, operating and maintaining such lines, wires, circuits, and conduits, associated equipment cabinets and such appurtenances thereto, as such service companies may from time to time require in order to provide such services to the Premises. Upon Tenant's or service company's request, Landlord will execute a separate recordable easement evidencing this grant, at no cost to Tenant or the service company.

15. DEFAULT AND RIGHT TO CURE.

(a) The following will be deemed a default by Tenant and a breach of this Agreement: (i) non-payment of Rent if such Rent remains unpaid for more than thirty (30) days after written notice from Landlord of such failure to pay; or (ii) Tenant's failure to perform any other term or condition under this Agreement within forty-five (45) days after written notice from Landlord specifying the failure. No such failure, however, will be deemed to exist if Tenant has commenced to cure such default within such period and provided that such efforts are prosecuted to completion with reasonable diligence. Delay in curing a default will be excused if due to causes beyond the reasonable control of Tenant. If Tenant remains in default beyond any applicable cure period, Landlord will have the right to exercise any and all rights and remedies available to it under law and equity.

(b) The following will be deemed a default by Landlord and a breach of this Agreement: (i) Landlord's failure to provide Access to the Premises as required by Section 12 within twenty-four (24) hours after written notice of such failure; (ii) Landlord's failure to cure an interference problem as required by Section 8 within twenty-four (24) hours after written notice of such failure; or (iii) Landlord's failure to perform any term, condition or breach of any warranty or covenant under this Agreement within forty-five (45) days after written notice from Tenant specifying the failure. No such failure, however, will be deemed to exist if Landlord has commenced to cure the default within such period and provided such efforts are prosecuted to completion with reasonable diligence. Delay in curing a default will be excused if due to causes beyond the reasonable control of Landlord. If Landlord remains in default beyond any applicable cure period, Tenant will have: (i) the right to cure Landlord's default and to deduct the costs of such cure from any monies due to Landlord from Tenant, and (ii) any and all other rights available to it under law and equity.

16. ASSIGNMENT/SUBLEASE. Tenant will have the right to assign this Agreement or sublease the Premises and its rights herein, in whole or in part, without Landlord's consent. Upon notification to Landlord of such assignment, Tenant will be relieved of all future performance, liabilities and obligations under this Agreement to the extent of such assignment.

17. **NOTICES.** All notices, requests and demands hereunder will be given by first class certified or registered mail, return receipt requested, or by a nationally recognized overnight courier, postage prepaid, to be effective when properly sent and received, refused or returned undelivered. Notices will be addressed to the parties as follows:

If to Tenant: Uniti Towers LLC
 Attn: Real Estate
 10801 Executive Center Drive
 Shannon Building, Suite 100
 Little Rock AR 72211
 501.458.4724

CC: Uniti Towers LLC
 ATTN: Keith Harvey, Deputy General Counsel
 10802 Executive Center Drive
 Benton Building, Suite 300
 Little Rock AR 72211

For Emergencies: NOC 1-844-398-9716

If to Landlord: J.R. Robertson and Nellie J. Robertson
 859 Stringtown Rd
 Grand Rivers, KY 42045
 Telephone:270-928-2577 h, 270-705-1317 m

Either party hereto may change the place for the giving of notice to it by thirty (30) days' prior written notice to the other party as provided herein.

18. **CONDEMNATION.** In the event Landlord receives notification of any condemnation proceedings affecting the Property, Landlord will provide notice of the proceeding to Tenant within twenty-four (24) hours. If a condemning authority takes all of the Property, or a portion sufficient, in Tenant's sole determination, to render the Premises unsuitable for Tenant, this Agreement will terminate as of the date the title vests in the condemning authority. The parties will each be entitled to pursue their own separate awards in the condemnation proceeds, which for Tenant will include, where applicable, the value of its Communication Facility, moving expenses, prepaid Rent, and business dislocation expenses. Tenant will be entitled to reimbursement for any prepaid Rent on a *pro rata* basis.

19. **CASUALTY.** Landlord will provide notice to Tenant of any casualty or other harm affecting the Property within twenty-four (24) hours of the casualty or other harm. If any part of the Communication Facility or Property is damaged by casualty or other harm as to render the Premises unsuitable, in Tenant's sole determination, then Tenant may terminate this Agreement by providing written notice to Landlord, which termination will be effective as of the date of such casualty or other harm. Upon such termination, Tenant will be entitled to collect all insurance proceeds payable to Tenant on account thereof and to be reimbursed for any prepaid Rent on a *pro rata* basis. Landlord agrees to permit Tenant to place temporary transmission and reception facilities on the Property, but only until such time as Tenant is able to activate a replacement transmission facility at another location; notwithstanding the termination of this Agreement, such temporary facilities will be governed by all of the terms and conditions of this Agreement, including Rent. If Landlord or Tenant undertakes to rebuild or restore the Premises and/or the Communication Facility, as applicable, Landlord agrees to permit Tenant to place temporary transmission and reception facilities on the Property at no additional Rent until the reconstruction of the Premises and/or the Communication Facility is completed. If Landlord determines not to rebuild or restore the Property, Landlord will notify Tenant of such determination within thirty (30) days after the casualty or other harm. If Landlord does not so notify Tenant and Tenant decides not to

terminate under this Section, then Landlord will promptly rebuild or restore any portion of the Property interfering with or required for Tenant's Permitted Use of the Premises to substantially the same condition as existed before the casualty or other harm. Landlord agrees that the Rent shall be abated until the Property and/or the Premises are rebuilt or restored, unless Tenant places temporary transmission and reception facilities on the Property.

20. WAIVER OF LANDLORD'S LIENS. Landlord waives any and all lien rights it may have, statutory or otherwise, concerning the Communication Facility or any portion thereof. The Communication Facility shall be deemed personal property for purposes of this Agreement, regardless of whether any portion is deemed real or personal property under applicable law; Landlord consents to Tenant's right to remove all or any portion of the Communication Facility from time to time in Tenant's sole discretion and without Landlord's consent.

21. TAXES.

(a) Landlord shall be responsible for (i) all taxes and assessments levied upon the lands, improvements and other property of Landlord including any such taxes that may be calculated by a taxing authority using any method, including the income method (ii) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with this Agreement and (iii) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with a sale of the Property or assignment of Rent payments by Landlord. Tenant shall be responsible for (y) any taxes and assessments attributable to and levied upon Tenant's leasehold improvements on the Premises if and as set forth in this Section 21 and (z) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with an assignment of this Agreement or sublease by Tenant. Nothing herein shall require Tenant to pay any inheritance, franchise, income, payroll, excise, privilege, rent, capital stock, stamp, documentary, estate or profit tax, or any tax of similar nature, that is or may be imposed upon Landlord.

(b) In the event Landlord receives a notice of assessment with respect to which taxes or assessments are imposed on Tenant's leasehold improvements on the Premises, Landlord shall provide Tenant with copies of each such notice immediately upon receipt, but in no event later than thirty (30) days after the date of such notice of assessment. If Landlord does not provide such notice or notices to Tenant in a timely manner and Tenant's rights with respect to such taxes are prejudiced by the delay, Landlord shall reimburse Tenant for any increased costs directly resulting from the delay and Landlord shall be responsible for payment of the tax or assessment set forth in the notice, and Landlord shall not have the right to reimbursement of such amount from Tenant. If Landlord provides a notice of assessment to Tenant within such time period and requests reimbursement from Tenant as set forth below, then Tenant shall reimburse Landlord for the tax or assessments identified on the notice of assessment on Tenant's leasehold improvements, which has been paid by Landlord. If Landlord seeks reimbursement from Tenant, Landlord shall, no later than thirty (30) days after Landlord's payment of the taxes or assessments for the assessed tax year, provide Tenant with written notice including evidence that Landlord has timely paid same, and Landlord shall provide to Tenant any other documentation reasonably requested by Tenant to allow Tenant to evaluate the payment and to reimburse Landlord.

(c) For any tax amount for which Tenant is responsible under this Agreement, Tenant shall have the right to contest, in good faith, the validity or the amount thereof using such administrative, appellate or other proceedings as may be appropriate in the jurisdiction, and may defer payment of such obligations, pay same under protest, or take such other steps as permitted by law. This right shall include the ability to institute any legal, regulatory or informal action in the name of Landlord, Tenant, or both, with respect to the valuation of the Premises. Landlord shall cooperate with respect to the commencement and prosecution of any such proceedings and will execute any documents required therefor. The expense of any such proceedings shall be borne by Tenant and any refunds or rebates secured as a result of Tenant's action shall belong to Tenant, to the extent the amounts were originally paid by Tenant. In the event Tenant notifies Landlord by the due date for assessment of Tenant's intent to contest the assessment, Landlord shall not pay the assessment pending conclusion of the contest, unless required by applicable law.

(d) Landlord shall not split or cause the tax parcel on which the Premises are located to be split, bifurcated, separated or divided without the prior written consent of Tenant.

(e) Tenant shall have the right but not the obligation to pay any taxes due by Landlord hereunder if Landlord fails to timely do so, in addition to any other rights or remedies of Tenant. In the event that Tenant exercises its rights under this Section 21(e) due to such Landlord default, Tenant shall have the right to deduct such tax amounts paid from any monies due to Landlord from Tenant as provided in Section 15(b), provided that Tenant may exercise such right without having provided to Landlord notice and the opportunity to cure per Section 15(b).

(f) Any tax-related notices shall be sent to Tenant in the manner set forth in Section 17. Promptly after the Effective Date of this Agreement, Landlord shall provide the Notice address set forth in Section 17 to the taxing authority for the authority's use in the event the authority needs to communicate with Tenant. In the event that Tenant's tax address changes by notice to Landlord, Landlord shall be required to provide Tenant's new tax address to the taxing authority or authorities.

(g) Notwithstanding anything to the contrary contained in this Section 21, Tenant shall have no obligation to reimburse any tax or assessment for which the Landlord is reimbursed or rebated by a third party.

22. SALE OF PROPERTY.

(a) Landlord may sell or transfer the Property or a portion of thereof to a third party (including sales or transfers by gift, inheritance, or assignment to Landlord's family members within the 3rd degree of consanguinity or trust(s) controlled by Landlord or such family members for the benefit of such family members (a "Family Transfer"), provided: (i) the sale or transfer is made subject to the terms of this Agreement; and (ii) if the sale or transfer does not include the assignment of the Landlord's full interest in this Agreement, the purchaser must agree to perform, without requiring compensation from Tenant or any subtenant, any obligation of Landlord under this Agreement, including Landlord's obligation to cooperate with Tenant as provided hereunder.

(b) If Landlord, at any time during the Term of this Agreement, decides to rezone or sell, subdivide or otherwise transfer all or any part of the Premises, or all or any part of the Property or Surrounding Property, to a purchaser other than Tenant, Landlord shall promptly notify Tenant in writing, and such rezoning, sale, subdivision or transfer shall be subject to this Agreement and Tenant's rights hereunder. In the event of a change in ownership, transfer or sale of the Property, within ten (10) days of such transfer, Landlord or its successor shall send the documents listed below in this Section 22(b) to Tenant. Until Tenant receives all such documents, Tenant's failure to make payments under this Agreement shall not be an event of default and Tenant reserves the right to hold payments due under this Agreement.

- i. Old deed to Property
- ii. New deed to Property
- iii. Bill of Sale or Transfer
- iv. Copy of current Tax Bill
- v. New IRS Form W-9
- vi. Completed and Signed Tenant Payment Direction Form
- vii. Full contact information for new Landlord including phone number(s)

(c) Landlord agrees not to sell, lease or use any areas of the Property or Surrounding Property for the installation, operation or maintenance of other wireless communication facilities if such installation, operation or maintenance would interfere with Tenant's Permitted Use or communications equipment as determined by radio propagation tests performed by Tenant in its sole discretion. Landlord or Landlord's prospective purchaser shall reimburse Tenant for any costs and expenses of such testing. If the radio frequency propagation tests demonstrate levels of interference unacceptable to Tenant, Landlord shall be prohibited from selling, leasing or using any areas of the Property or the Surrounding Property for purposes of any installation, operation or maintenance of any other wireless communication facility or equipment.

(d) The provisions of this Section shall in no way limit or impair the obligations of Landlord under this Agreement, including interference and access obligations.

23. RIGHT OF FIRST REFUSAL. Notwithstanding the provisions contained in Section 22, if at any time after the Effective Date, Landlord receives a bona fide written offer from a third party seeking any sale, conveyance, assignment or transfer, whether in whole or in part, of any property interest in or related to the Premises, including without limitation any offer seeking an assignment or transfer of the Rent payments associated with this Agreement or an offer to purchase an easement with respect to the Premises (“Offer”), Landlord shall immediately furnish Tenant with a copy of the Offer. Tenant shall have the right within ninety (90) days after it receives such copy to match the financial terms of the Offer and agree in writing to match such terms of the Offer. Such writing shall be in the form of a contract substantially similar to the Offer, but Tenant may assign its rights to a third party. If Tenant chooses not to exercise this right or fails to provide written notice to Landlord within the ninety (90) day period, Landlord may sell, convey, assign or transfer such property interest in or related to the Premises pursuant to the Offer, subject to the terms of this Agreement. If Landlord attempts to sell, convey, assign or transfer such property interest in or related to the Premises without complying with this Section 23, the sale, conveyance, assignment or transfer shall be void. Tenant shall not be responsible for any failure to make payments under this Agreement and reserves the right to hold payments due under this Agreement until Landlord complies with this Section 23. Tenant’s failure to exercise the right of first refusal shall not be deemed a waiver of the rights contained in this Section 23 with respect to any future proposed conveyances as described herein.

Notwithstanding the foregoing, the provisions of the Section 23 shall not apply to any Family Transfer completed in accordance with Section 22.

24. MISCELLANEOUS.

(a) **Amendment/Waiver.** This Agreement cannot be amended, modified or revised unless done in writing and signed by Landlord and Tenant. No provision may be waived except in a writing signed by both parties. The failure by a party to enforce any provision of this Agreement or to require performance by the other party will not be construed to be a waiver, or in any way affect the right of either party to enforce such provision thereafter.

(b) **Memorandum.** Contemporaneously with the execution of this Agreement, the parties will execute a recordable Memorandum of Lease substantially in the form attached as **Exhibit 24b**. Either party may record this Memorandum of Lease at any time during the Term, in its absolute discretion. Thereafter during the Term, either party will, at any time upon fifteen (15) business days’ prior written notice from the other, execute, acknowledge and deliver to the other a recordable Memorandum of Lease.

(c) **Limitation of Liability.** Except for the indemnity obligations set forth in this Agreement, and otherwise notwithstanding anything to the contrary in this Agreement, Tenant and Landlord each waives any claims that each may have against the other with respect to consequential, incidental or special damages, however caused, based on any theory of liability.

(d) **Compliance with Law.** Tenant agrees to comply with all federal, state and local laws, orders, rules and regulations (“Laws”) applicable to Tenant’s use of the Communication Facility on the Property. Landlord agrees to comply with all Laws relating to Landlord’s ownership and use of the Property and any improvements on the Property.

(e) **Bind and Benefit.** The terms and conditions contained in this Agreement will run with the Property and bind and inure to the benefit of the parties, their respective heirs, executors, administrators, successors and assigns.

(f) **Entire Agreement.** This Agreement and the exhibits attached hereto, all being a part hereof, constitute the entire agreement of the parties hereto and will supersede all prior offers, negotiations and agreements with respect to the subject matter of this Agreement. Exhibits are numbered to correspond to the Section wherein they are first referenced. Except as otherwise stated in this Agreement, each party shall bear its own fees and expenses (including the fees and expenses of its agents, brokers, representatives, attorneys, and accountants) incurred in connection with the negotiation, drafting, execution and performance of this Agreement and the transactions it contemplates.

(g) **Governing Law.** This Agreement will be governed by the laws of the state in which the Premises are located, without regard to conflicts of law.

(h) **Interpretation.** Unless otherwise specified, the following rules of construction and interpretation apply: (i) captions are for convenience and reference only and in no way define or limit the construction of the terms and conditions hereof; (ii) use of the term "including" will be interpreted to mean "including but not limited to"; (iii) whenever a party's consent is required under this Agreement, except as otherwise stated in the Agreement or as same may be duplicative, such consent will not be unreasonably withheld, conditioned or delayed; (iv) exhibits are an integral part of this Agreement and are incorporated by reference into this Agreement; (v) use of the terms "termination" or "expiration" are interchangeable; (vi) reference to a default will take into consideration any applicable notice, grace and cure periods; (vii) to the extent there is any issue with respect to any alleged, perceived or actual ambiguity in this Agreement, the ambiguity shall not be resolved on the basis of who drafted the Agreement; (viii) the singular use of words includes the plural where appropriate and (ix) if any provision of this Agreement is held invalid, illegal or unenforceable, the remaining provisions of this Agreement shall remain in full force if the overall purpose of the Agreement is not rendered impossible and the original purpose, intent or consideration is not materially impaired.

(i) **Affiliates.** All references to "Tenant" shall be deemed to include any Affiliate of Uniti Towers LLC using the Premises for any Permitted Use or otherwise exercising the rights of Tenant pursuant to this Agreement. "Affiliate" means with respect to a party to this Agreement, any person or entity that (directly or indirectly) controls, is controlled by, or under common control with, that party. "Control" of a person or entity means the power (directly or indirectly) to direct the management or policies of that person or entity, whether through the ownership of voting securities, by contract, by agency or otherwise.

(j) **Survival.** Any provisions of this Agreement relating to indemnification shall survive the termination or expiration hereof. In addition, any terms and conditions contained in this Agreement that by their sense and context are intended to survive the termination or expiration of this Agreement shall so survive.

(k) **W-9.** As a condition precedent to payment, Landlord agrees to provide Tenant with a completed IRS Form W-9, or its equivalent, upon execution of this Agreement and at such other times as may be reasonably requested by Tenant, including any change in Landlord's name or address.

(l) **Execution/No Option.** The submission of this Agreement to any party for examination or consideration does not constitute an offer, reservation of or option for the Premises based on the terms set forth herein. This Agreement will become effective as a binding Agreement only upon the handwritten legal execution, acknowledgment and delivery hereof by Landlord and Tenant. This Agreement may be executed in two (2) or more counterparts, all of which shall be considered one and the same agreement and shall become effective when one or more counterparts have been signed by each of the parties. All parties need not sign the same counterpart.

(m) **Attorneys' Fees.** In the event that any dispute between the parties related to this Agreement should result in litigation, the prevailing party in such litigation shall be entitled to recover from the other party all reasonable fees and expenses of enforcing any right of the prevailing party, including reasonable attorneys' fees and expenses. Prevailing party means the party determined by the court to have most nearly prevailed even if such party did not prevail in all matters. This provision will not be construed to entitle any party other than Landlord, Tenant and their respective Affiliates to recover their fees and expenses.

(n) **WAIVER OF JURY TRIAL.** EACH PARTY, TO THE EXTENT PERMITTED BY LAW, KNOWINGLY, VOLUNTARILY AND INTENTIONALLY WAIVES ITS RIGHT TO A TRIAL BY JURY IN ANY ACTION OR PROCEEDING UNDER ANY THEORY OF LIABILITY ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS AGREEMENT OR THE TRANSACTIONS IT CONTEMPLATES.

(o) **Incidental Fees.** Unless specified in this Agreement, no unilateral fees or additional costs or expenses are to be applied by either party to the other party, including review of plans, structural analyses, consents, provision of documents or other communications between the parties.

(p) **Further Acts.** Upon request, Landlord will cause to be promptly and duly taken, executed, acknowledged and delivered all such further acts, documents, and assurances as Tenant may request from time to time in order to effectuate, carry out and perform all of the terms, provisions and conditions of this Agreement and all transactions and permitted use contemplated by this Agreement.

(q) **Force Majeure.** No party shall be liable or responsible to the other party, nor be deemed to have defaulted under or breached this Agreement, for any failure or delay in fulfilling or performing any term of

this Agreement, when and to the extent such failure or delay is caused by or results from acts beyond the affected party's reasonable control, including, without limitation: (a) acts of God; (b) flood, fire, earthquake, or explosion; (c) war, invasion, hostilities (whether war is declared or not), terrorist threats or acts, riot, or other civil unrest; (d) government order or law; (e) embargoes, or blockades in effect on or after the date of this Agreement; (f) action by any governmental authority; (g) national or regional emergency; and (h) strikes, labor stoppages or slowdowns, or other industrial disturbances. The party suffering a force majeure event shall give written notice to the other party, stating the period of time the occurrence is expected to continue and shall use diligent efforts to end the failure or delay and ensure the effects of such force majeure event are minimized.

[SIGNATURES APPEAR ON NEXT PAGE]

IN WITNESS WHEREOF, the parties have caused this Agreement to be effective as of the last date written below.

"LANDLORD"

J. R. Robertson and Nellie J. Robertson

By: J. R. Robertson
Name: J. R. Robertson
Its: Owner
Date: 3-7-20

By: Nellie J. Robertson
Name: Nellie J Robertson
Its: Owner
Date: 3-7-20

"TENANT"

Uniti Towers LLC

By: Ginger Maddox
Print Name: Ginger Maddox
Its: VP - Real Estate
Date: 2-14-2020

[ACKNOWLEDGMENTS APPEAR ON NEXT PAGE]

TENANT ACKNOWLEDGMENT

STATE OF ARKANSAS

COUNTY OF PULASKI

On the 14TH day of FEBRUARY, 2020, before me personally appeared GANGIEZ MAJORS, who acknowledged under oath that he/ she is the VP REAL ESTATE of Uniti Towers LLC, the Tenant named in the attached instrument, and as such was authorized to execute this instrument on behalf of the Tenant.



Nancy J Kosuta
Notary Public: NANCY J. KOSUTA
My Commission Expires: 11/30/2025

LANDLORD ACKNOWLEDGMENT

STATE OF KENTUCKY

COUNTY OF LYON

BE IT REMEMBERED, that on this 7TH day of FEB, 2020 before me, the subscriber, a person authorized to take oaths in the State of KENTUCKY, personally appeared **J. R. Robertson** who, being duly sworn on his/her/their oath, deposed and made proof to my satisfaction that he/she/they is/are the person(s) named in the within instrument; and I, having first made known to him/her/them the contents thereof, he/she/they did acknowledge that he/she/they signed, sealed and delivered the same as his/her/their voluntary act and deed for the purposes therein contained.

Maria Lee Wilson
Notary Public: 568246
My Commission Expires: 11/12/20

LANDLORD ACKNOWLEDGMENT

STATE OF KENTUCKY

COUNTY OF LYON

BE IT REMEMBERED, that on this 7TH day of FEB, 2020 before me, the subscriber, a person authorized to take oaths in the State of KENTUCKY, personally appeared **Nellie J. Robertson** who, being duly sworn on his/her/their oath, deposed and made proof to my satisfaction that he/she/they is/are the person(s) named in the within instrument; and I, having first made known to him/her/them the contents thereof, he/she/they did acknowledge that he/she/they signed, sealed and delivered the same as his/her/their voluntary act and deed for the purposes therein contained.

Maria Lee Wilson
Notary Public: 568246
My Commission Expires: 11/12/20

EXHIBIT 1

DESCRIPTION OF PREMISES

Page 1 of 4

to the Option and Lease Agreement dated February 14, 2020, by and between J. R. Robertson and Nellie J. Robertson, as Landlord, and Uniti Towers LLC, a Delaware limited liability company, as Tenant.

The Property is legally described as follows:

A certain tract or parcel of land located, lying and being in Livingston County, Kentucky, on the South side of Cumberland River two miles South of Iuka on the Grand Hivers-Iuka Road and Sauvage and wife to M. C. Robertson and wife by deed, dated 37th day of August, 1932, of record in Deed Book 55, page 521, records of the Livingston County Court Clerk's office, and described as follows:

Beginning at a stone on the West bank of the Cumberland River corner to the original tract of 100 acres belonging to R. L. Sauvage; thence with the North line of said tract S 89 W 472 poles to a white oak in Ellen Dycus' line; thence S 27 poles to a black oak, corner to said Sauvage's 100 acre tract; thence N 89 1/2 E 128 poles to a stake in a line of said tract, corner to C. A. Dycus on a line of E. P. Doom; thence S 88 1/2 E 341 poles to a stone on the bank of the Cumberland River, another corner between M. C. Robertson and Sherly Driskill; thence N 47 poles to the beginning, containing 100 acres, more or less.

LESS AND EXCEPT that portion of property conveyed to Commonwealth of Kentucky, Department of Highways from Eulen Ramage Special Commissioner of the Livingston Circuit Court by Commissioner's Deed dated February 7, 1975 and recorded February 13, 1975 in Deed Book 121, Page 305.

AND BEING A PORTION OF the same property conveyed to J. R. Robertson and Nellie J. Robertson from M.C. Robertson and Angle Robertson by Deed dated December 20, 1965 and recorded February 25, 1966 in Deed Book 99, Page 137.

Tax Parcel No. 090-00-00-006.00

The Premises are described and/or depicted as follows:

LEASE AREA

All that tract or parcel of land lying and being in Livingston County, Kentucky and being a portion of the lands of J.R. and Nellie J. Robertson, as recorded in Deed Book 99 Page 137, Livingston County records and being more particularly described as follows:

To find the point of beginning, COMMENCE at an axle found at the northwest corner common to said Robertson lands and the lands of J.R. and Nellie J. Robertson, as recorded in Deed Book 112 Page 559 and having a Kentucky Grid North, NAD83, Single Zone value of N: 3554294.6301 E: 4195240.4326; thence running along a tie line, North 80°02'06" East, 498.51 feet to a point having a Kentucky Grid North, NAD83, Single Zone value of N: 3554380.8946 E: 4195731.4186 and the true POINT OF BEGINNING; Thence running, North 05°46'52" East, 100.00 feet to a point; Thence, South 84°13'08" East, 100.00 feet to a point; Thence, South 05°46'52" West, 100.00 feet to a point; Thence, North 84°13'08" West, 100.00 feet to a point and the POINT OF BEGINNING.

Bearings based on Kentucky Grid North, NAD83, Single Zone.

Said tract contains 0.2296 acres (10,000 square feet), more or less, as shown in a survey prepared for Uniti Towers, LLC by POINT TO POINT LAND SURVEYORS, INC. dated January 13, 2020.

30' INGRESS-EGRESS & UTILITY EASEMENT

Together with a 30-foot wide Ingress-Egress and Utility Easement (lying 15 feet each side of centerline) lying and being in Livingston County, Kentucky and being a portion of the lands of J.R. and Nellie J. Robertson, as recorded in Deed Book 99 Page 137, Livingston County records and being more particularly described by the following centerline data:

To find the point of beginning, COMMENCE at an axle found at the northwest corner common to said Robertson lands and the lands of J.R. and Nellie J. Robertson, as recorded in Deed Book 112 Page 559 and having a Kentucky Grid North,

NAD83, Single Zone value of N: 3554294.6301 E: 4195240.4326; thence running along a tie line, North 80°02'06" East, 498.51 feet to a point having a Kentucky Grid North, NAD83, Single Zone value of N: 3554380.8946 E: 4195731.4186 and the southwest corner of the Lease Area; thence running along said Lease Area, North 05°46'52" East, 100.00 feet to a point; thence, South 84°13'08" East, 100.00 feet to a point; thence, South 05°46'52" West, 100.00 feet to a point; thence, North 84°13'08" West, 50.00 feet to a point and the true POINT OF BEGINNING; Thence leaving said Lease Area and running, South 19°19'33" East, 139.86 feet to the ENDING at a point on the north line of Reed Road, a county maintained gravel road.

Bearings based on Kentucky Grid North, NAD83, Single Zone.

As shown in a survey prepared for Uniti Towers, LLC by POINT TO POINT LAND SURVEYORS, INC. dated January 13, 2020.

Notes:

1. THIS EXHIBIT MAY BE REPLACED BY A LAND SURVEY AND/OR CONSTRUCTION DRAWINGS OF THE PREMISES ONCE RECEIVED BY TENANT.
2. ANY SETBACK OF THE PREMISES FROM THE PROPERTY'S BOUNDARIES SHALL BE THE DISTANCE REQUIRED BY THE APPLICABLE GOVERNMENT AUTHORITIES.
3. WIDTH OF ACCESS ROAD SHALL BE THE WIDTH REQUIRED BY THE APPLICABLE GOVERNMENT AUTHORITIES, INCLUDING POLICE AND FIRE DEPARTMENTS.
4. THE TYPE, NUMBER AND MOUNTING POSITIONS AND LOCATIONS OF ANTENNAS AND TRANSMISSION LINES ARE ILLUSTRATIVE ONLY. ACTUAL TYPES, NUMBERS AND MOUNTING POSITIONS MAY VARY FROM WHAT IS SHOWN ABOVE.

GENERAL NOTES

1. THIS SURVEY IS FOR THE LANDS OWNED AND DESCRIBED IN THE DEEDS AND RECORDS OF THE PUBLIC RECORDS AND DEEDS OF THE COUNTY OF KENTUCKY, AND IS NOT TO BE USED AS A BASIS FOR ANY OTHER PURPOSES. THE SURVEYOR HAS BEEN ADVISED BY THE OWNER THAT THE LANDS SHOWN ON THIS SURVEY ARE THE SAME AS SHOWN ON THE DEEDS AND RECORDS OF THE PUBLIC RECORDS AND DEEDS OF THE COUNTY OF KENTUCKY. THE SURVEYOR HAS NOT BEEN ADVISED OF ANY OTHER INTERESTS IN THE LANDS SHOWN ON THIS SURVEY. THE SURVEYOR HAS NOT BEEN ADVISED OF ANY OTHER INTERESTS IN THE LANDS SHOWN ON THIS SURVEY. THE SURVEYOR HAS NOT BEEN ADVISED OF ANY OTHER INTERESTS IN THE LANDS SHOWN ON THIS SURVEY.

PARENT PARCEL

OWNER: J.R. A. HELLER, JR.
 DEED: KENTUCKY DEEDS, VOL. 204, PAGE 504
 DEED: KENTUCKY DEEDS, VOL. 204, PAGE 504
 DEED: KENTUCKY DEEDS, VOL. 204, PAGE 504
 DEED: KENTUCKY DEEDS, VOL. 204, PAGE 504

GPS NOTES

THE FOLLOWING GPS STATION DATA WAS USED FOR THIS SURVEY:
 STATION NAME: [REDACTED]
 ELEVATION: [REDACTED]
 DATE: [REDACTED]
 TIME: [REDACTED]
 USER: [REDACTED]

PARENT PARCEL

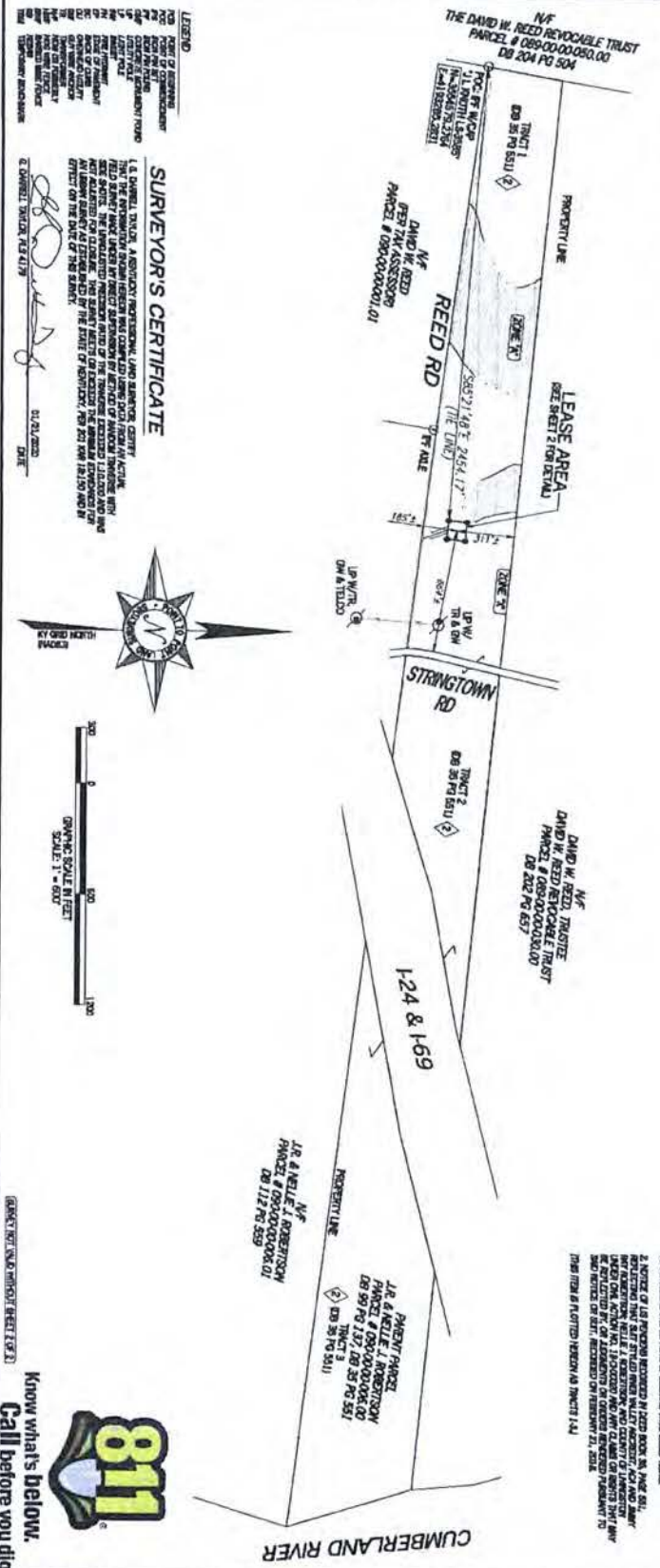
OWNER: J.R. A. HELLER, JR.
 DEED: KENTUCKY DEEDS, VOL. 204, PAGE 504
 DEED: KENTUCKY DEEDS, VOL. 204, PAGE 504
 DEED: KENTUCKY DEEDS, VOL. 204, PAGE 504

USE AND OBTAIN THE BEST COPY OF THIS SURVEY FROM THE SURVEYOR'S OFFICE. THE SURVEYOR'S OFFICE IS LOCATED AT 100 GOVERNORS TRACE, STE. 103, PEACHTREE CITY, GA 30269. THE SURVEYOR'S OFFICE IS LOCATED AT 100 GOVERNORS TRACE, STE. 103, PEACHTREE CITY, GA 30269. THE SURVEYOR'S OFFICE IS LOCATED AT 100 GOVERNORS TRACE, STE. 103, PEACHTREE CITY, GA 30269.



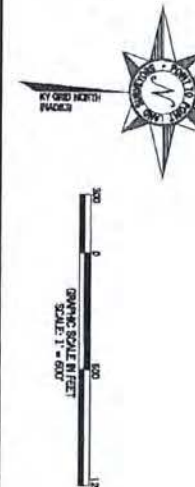
TITLE EXCEPTIONS

THE SURVEYOR HAS CONDUCTED A TITLE SEARCH AND HAS FOUND NO TITLE EXCEPTIONS. THE SURVEYOR HAS CONDUCTED A TITLE SEARCH AND HAS FOUND NO TITLE EXCEPTIONS. THE SURVEYOR HAS CONDUCTED A TITLE SEARCH AND HAS FOUND NO TITLE EXCEPTIONS. THE SURVEYOR HAS CONDUCTED A TITLE SEARCH AND HAS FOUND NO TITLE EXCEPTIONS.



SURVEYOR'S CERTIFICATE
 I, G. DARRELL TAYLOR, A LICENSED PROFESSIONAL LAND SURVEYOR, CERTIFY THAT THE SURVEY SHOWN ON THIS CERTIFICATE WAS MADE BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A MEMBER OF THE KENTUCKY SURVEYORS ASSOCIATION. I AM NOT PROVIDING ANY GUARANTEE OF ACCURACY OR LIABILITY FOR THIS SURVEY. THE SURVEYOR HAS NOT BEEN ADVISED OF ANY OTHER INTERESTS IN THE LANDS SHOWN ON THIS SURVEY. THE SURVEYOR HAS NOT BEEN ADVISED OF ANY OTHER INTERESTS IN THE LANDS SHOWN ON THIS SURVEY.

G. DARRELL TAYLOR, KLS 4179
 DATE: 01/21/2020



Know what's below.
 Call before you dig.

<p>DATE: 01/21/2020</p> <p>REVISION: NONE</p> <p>SHEET: 1 OF 2</p>	<p>STATE OF KENTUCKY</p> <p>G. DARRELL TAYLOR</p> <p>4179</p> <p>LICENSED PROFESSIONAL LAND SURVEYOR</p>	<p>POINT TO POINT LAND SURVEYORS</p> <p>100 Governors Trace, Ste. 103</p> <p>Peachtree City, GA 30269</p> <p>(p) 678.565.4440 (f) 678.565.4497</p> <p>(w) pointtopointsurvey.com</p>	<p>UNITI TOWERS</p>
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LEASE AREA

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN LIVINGSTON COUNTY, KENTUCKY AND BEING A PORTION OF THE LANDS OF J.R. AND NELLIE J. ROBERTSON, AS RECORDED IN DEED BOOK 35 PAGE 551, LIVINGSTON COUNTY RECORDS AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

TO FIND THE POINT OF BEGINNING, COMMENCE AT A CAPPED IRON PIN (T.J.L. KN0TH LS-3685) HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3554579.2764 E: 4193285.2831; THENCE RUNNING ALONG A TIE LINE, SOUTH 85°21'48" EAST, 2454.17 FEET TO A POINT HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3554380.8946 E: 4195731.4186 AND THE TRUE POINT OF BEGINNING; THENCE RUNNING, NORTH 05°46'52" EAST, 100.00 FEET TO A POINT; THENCE, SOUTH 84°13'08" EAST, 100.00 FEET TO A POINT; THENCE, SOUTH 05°46'52" WEST, 100.00 FEET TO A POINT; THENCE, NORTH 84°13'08" WEST, 100.00 FEET TO A POINT AND THE POINT OF BEGINNING.

BEARINGS BASED ON KENTUCKY GRID NORTH, NAD83, SINGLE ZONE.

SAID TRACT CONTAINS 0.2296 ACRES (10,000 SQUARE FEET), MORE OR LESS.

30' INGRESS-EGRESS & UTILITY EASEMENT

TOGETHER WITH A 30-FOOT WIDE INGRESS-EGRESS AND UTILITY EASEMENT (LYING 15 FEET EACH SIDE OF CENTERLINE) LYING AND BEING IN LIVINGSTON COUNTY, KENTUCKY AND BEING A PORTION OF THE LANDS OF J.R. AND NELLIE J. ROBERTSON, AS RECORDED IN DEED BOOK 35 PAGE 551, LIVINGSTON COUNTY RECORDS AND BEING MORE PARTICULARLY DESCRIBED BY THE FOLLOWING CENTERLINE DATA:

TO FIND THE POINT OF BEGINNING, COMMENCE AT A CAPPED IRON PIN (T.J.L. KN0TH LS-3685) HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3554579.2764 E: 4193285.2831; THENCE RUNNING ALONG A TIE LINE, SOUTH 85°21'48" EAST, 2454.17 FEET TO A POINT HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3554380.8946 E: 4195731.4186 AND THE SOUTHWEST CORNER OF THE LEASE AREA; THENCE RUNNING ALONG SAID LEASE AREA, NORTH 05°46'52" EAST, 100.00 FEET TO A POINT; THENCE, SOUTH 84°13'08" EAST, 100.00 FEET TO A POINT; THENCE, SOUTH 05°46'52" WEST, 100.00 FEET TO A POINT; THENCE, NORTH 84°13'08" WEST, 50.00 FEET TO A POINT AND THE TRUE POINT OF BEGINNING; THENCE LEAVING SAID LEASE AREA AND RUNNING, SOUTH 13°19'33" EAST, 133.86 FEET TO THE ENDING AT A POINT ON THE NORTH LINE OF REED ROAD, A COUNTY MAINTAINED GRAVEL ROAD.

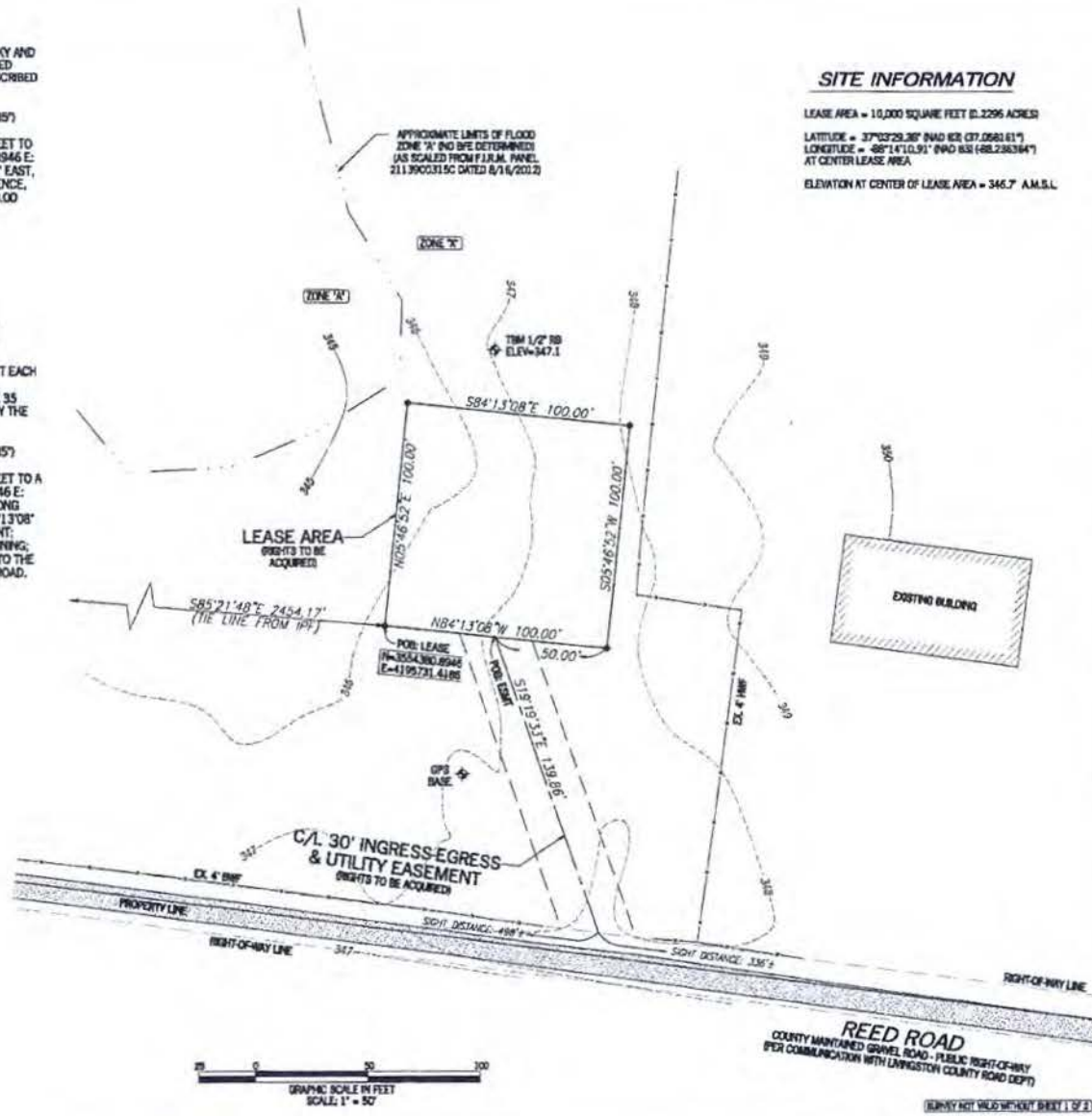
BEARINGS BASED ON KENTUCKY GRID NORTH, NAD83, SINGLE ZONE.

SITE INFORMATION

LEASE AREA = 10,000 SQUARE FEET (0.2296 ACRES)

LATITUDE = 37°03'29.36" NAD 83 (37.058161°)
LONGITUDE = -88°14'10.91" NAD 83 (-88.236364°)
AT CENTER LEASE AREA

ELEVATION AT CENTER OF LEASE AREA = 346.7' A.M.S.L.



STATE of KENTUCKY
G. DARRELL TAYLOR
4179
LICENSED PROFESSIONAL LAND SURVEYOR

NO.	DATE	REVISION
1	01/21/2020	ADDED TITLE B/L

SPECIFIC PURPOSE SURVEY PREPARED BY:
POINT TO POINT LAND SURVEYORS
100 Governors Trace, Ste. 103
Peachtree City, GA 30269
(c) 678.565.4440 (f) 678.565.4497
(w) pointtopointsurvey.com



SPECIFIC PURPOSE SURVEY PREPARED FOR:



LUKA
KYBGN2020
LIVINGSTON COUNTY, KENTUCKY

DRAWN BY: EAL
CHECKED BY: JAL
APPROVED: D. MILLER
DATE: JANUARY 13, 2020
P2P JOB #: 1953389Y

SHEET:
2
OF 2

- LEGEND**
- PCB POINT OF BEGINNING
 - PCO POINT OF COMMENCEMENT
 - PIR IRON PIN SET
 - PIF IRON PIN FOUND
 - CPR CONCRETE EASEMENT PEGS
 - UP UTILITY POLE
 - LP LIGHT POLE
 - SP SIGN
 - PIR IRON PIN
 - AC ANGLE OF CURVE
 - CC CURVE OF CURVE
 - CU CURVED UTILITY
 - CUH CURVED HIGH ARCH
 - TR TRANSFORMER
 - TRF TRAFFIC SIGNAL
 - IRP IRON PIPE
 - IRPF IRON PIPE FOUND
 - IRPZ IRON PIPE
 - IRB IRON
 - IRD IRON
 - IRP IRON PIPE
 - IRP IRON PIPE

EXHIBIT J
NOTIFICATION LISTING

Lake City / Luka – Notice List

ROBERTSON JIMMY R & NELLIE J
859 STRINGTOWN RD
GRAND RIVERS, KY 42045

REED DAVID
REVOCABLE TRUST
P O BOX 275
GRAND RIVERS, KY 42045

MILLIKAN MIKE & NANCY JACKIE & SHANN
c/o SBA COMMUNICATIONS CORP
8051 CONGRESS AVE
BOCA RATON, FL 33487

MILLIKAN MIKE & NANCY S
JACKIE & SHANNON MILLIKAN
1572 SR 373 N
EDDYVILLE, KY 42038

REED DAVID W
P O BOX 67
GILBERTSVILLE, KY 42044

SHANE PAM
LIGON CARLA
1115 KENMAR ROAD
PADUCAH, KY 42003

EXHIBIT K
COPY OF PROPERTY OWNER NOTIFICATION



1578 Highway 44 East, Suite 6
P.O. Box 369
Shepherdsville, KY 40165-0369
Phone (502) 955-4400 or (800) 516-4293
Fax (502) 543-4410 or (800) 541-4410

**Notice of Proposed Construction of
Wireless Communications Facility
Site Name: Lake City / Luka**

Dear Landowner:

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Uniti Tower LLC, a Delaware limited liability company have filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 880 Reed Road, Grand Rivers, KY 42045 (37° 03' 29.38" North latitude, 88° 14' 10.91" West longitude). The proposed facility will include a 255-foot tall tower, with an approximately 12-foot tall lightning arrestor attached at the top, for a total height of 267-feet, plus 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 2020-00300 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. AT&T Mobility'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 toll free at (800) 516-4293 if you have any comments or questions about this proposal.

Sincerely,
David A. Pike
Attorney for Applicants

enclosures

Driving Directions to Proposed Tower Site

1. Beginning at the Livingston County Judge Executive's Office, located at 321 Court Street, Smithland, KY 42081, head southeast (toward State Street) on Court Street and travel approximately 0.4 miles.
2. Continue onto Luka Road and travel approximately 11.0 miles.
3. Turn left onto KY-93 S and travel approximately 0.4 miles.
4. Stay right and continue onto KY-917 and travel approximately 1.7 miles.
5. Turn right onto Reed Road and travel approximately 0.1 miles.
6. The site is located on the right at 880 Reed Road, Grand Rivers, KY 42045.
7. The site coordinates are:
 - a. North 37 deg 03 min 29.38 sec
 - b. West 88 deg 14 min 10.91 sec



Prepared by:
Chris Shouse
Pike Legal Group
1578 Highway 44 East, Suite 6
P.O. Box 396
Shepherdsville, KY 40165-3069
Telephone: 502-955-4400 or 800-516-4293

#	OWNER	ADDRESS	PID	REF
1	J.R. & NELLIE J. ROBERTSON	859 STRINGTOWN RD GRAND RIVER, KY 42045	090-00-00-006.00	DB 99 PG 137 DB 35 PG 551
2	DAVID W. REED, TRUSTEE DAVID W. REED REVOCABLE TRUST	P.O. BOX 275 GRAND RIVER, KY 42045	089-00-00-030.00	DB 202 PG 657
3	MIKE & SHANNON MILLIKAN JACKIE & SHANNON MILLIKAN	1572 SR 373 N EDDYVILLE, KY 42038	090-00-00-006.01	DB 258 PG 083

- NOTE:
- SEE SHIT, C-1.1 FOR INFORMATION ON PROPERTIES #4 - #6.
 - PVA INFORMATION WAS OBTAINED ON 7/23/2020 FROM THE OFFICIAL RECORDS OF THE COUNTY'S PROPERTY VALUATION ADMINISTRATOR.
 - THIS MAP IS FOR GENERAL INFORMATION PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
 - NOT FOR RECORDING OR PROPERTY TRANSFER.



1 500' RADIUS & ADJOINER'S DRAWING
SCALE 0 100' 200' 300' 400' 1"=200'



CALL KENTUCKY ONE CALL
(800) 752-6007
CALL 3 WORKING DAYS
BEFORE YOU DIG!



UNITI TOWERS
LUKA
E# 15147593
P# 10668325
880 REED ROAD
GRAND RIVER, KY 42045
LIVINGSTON COUNTY
PROPOSED 255' SELF-SUPPORT TOWER

PROJECT NO:	0417-15		
CHECKED BY:	MAS		
ISSUED FOR			
REV	DATE	DRWN	DESCRIPTION
A	08/18/20	DLB	ZONING DRAWINGS
O	10/28/20	DLB	ZONING DRAWINGS

B&T ENGINEERING, INC.
COA 4011
Expires 12/31/20



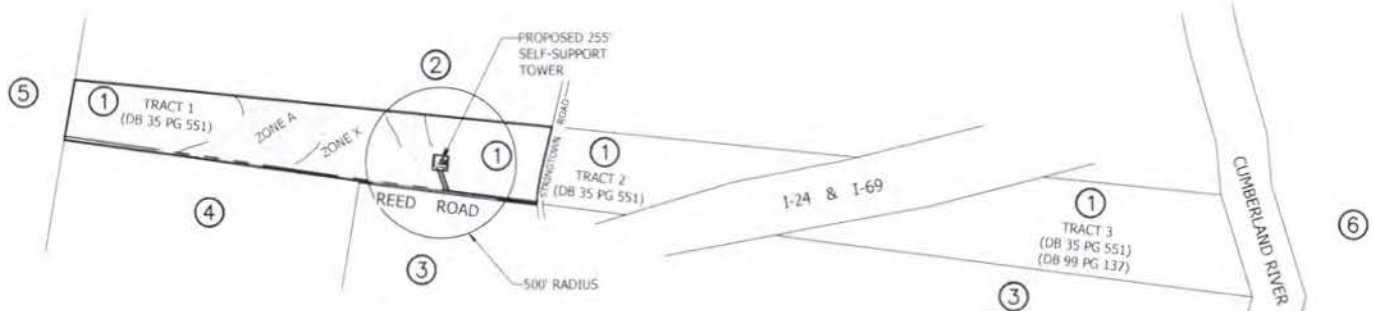
IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTIVE UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT.

500' RADIUS & ADJOINER'S DRAWING

SHEET NUMBER:
C-1.0

#	OWNER	ADDRESS	PID	REF
4	DAVID W. REED	P.O. BOX 67 GILBERTSVILLE, KY 42044	090-00-00-001.01	-
5	DAVID W. REED	P.O. BOX 275 GRAND RIVERS, KY 42045	089-00-00-030.00	DB 202 PG 657
6	PAM SHANE & CARLA LIGON	1115 KENMAR ROAD GRAND RIVERS, KY 42045	+1 & 39	-

- NOTE:
- SEE SHT, C-1.0 FOR INFORMATION ON PROPERTIES #1 - #3.
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1 OVERALL ADJOINER'S DRAWING
SCALE 0 400 800 1200 1600 1"=800'



CALL KENTUCKY ONE CALL
(800) 752-6007
CALL 3 WORKING DAYS
BEFORE YOU DIG!



UNITI TOWERS
LUKA
E# 45147593
P# 10068325
880 REED ROAD
LIVINGSTON COUNTY
KY 42045
PHONE 502.357.5411 FAX 502.357.1008

PROJECT NO: 1917-11
CHECKED BY: MAS

REV	DATE	DRWN	DESCRIPTION
A	08/18/20	DL3	ZONING DRAWING
D	08/28/20	DL3	ZONING DRAWING

B&T ENGINEERING, INC.
COA 4011
Expires 12/31/20



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OVERALL ADJOINER'S DRAWING

SHEET NUMBER
C-1.1

EXHIBIT L
COPY OF COUNTY JUDGE/EXECUTIVE NOTICE



1578 Highway 44 East, Suite 6
P.O. Box 369
Shepherdsville, KY 40165-0369
Phone (502) 955-4400 or (800) 516-4293
Fax (502) 543-4410 or (800) 541-4410

VIA CERTIFIED MAIL

Garrett Gruber
County Judge Executive
335 Court Street
Smithland, KY 42081

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2020-00300
Site Name: Lake City / Luka

Dear Judge/Executive:

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Uniti Tower LLC, a Delaware limited liability company have filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 880 Reed Road, Grand Rivers, KY 42045 (37° 03' 29.38" North latitude, 88° 14' 10.91" West longitude). The proposed facility will include a 255-foot tall tower, with an approximately 12-foot tall lightning arrestor attached at the top, for a total height of 267-feet, plus 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 2020-00300 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. AT&T Mobility'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 with any comments or questions you may have.

Sincerely,
David A. Pike
Attorney for Applicants
enclosures

Driving Directions to Proposed Tower Site

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2. Continue onto Luka Road and travel approximately 11.0 miles.
3. Turn left onto KY-93 S and travel approximately 0.4 miles.
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6. The site is located on the right at 880 Reed Road, Grand Rivers, KY 42045.
7. The site coordinates are:
 - a. North 37 deg 03 min 29.38 sec
 - b. West 88 deg 14 min 10.91 sec



Prepared by:
Chris Shouse
Pike Legal Group
1578 Highway 44 East, Suite 6
P.O. Box 396
Shepherdsville, KY 40165-3069
Telephone: 502-955-4400 or 800-516-4293

#	OWNER	ADDRESS	PID	REF
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- NOTE:
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① 500' RADIUS & ADJOINER'S DRAWING
SCALE: 0' 100' 200' 300' 400' 1"=200'



CALL KENTUCKY ONE CALL
(800) 752-6007
CALL 3 WORKING DAYS
BEFORE YOU DIG!



UNITI TOWERS
LUKA
E.P.# 15147593
P.I.# 10068325
880 REED ROAD
GRAND RIVERS, KY 42045
LIVINGSTON COUNTY
PROPOSED 255' SELF-SUPPORT TOWER

PROJECT NO.: 4011-01
CHECKED BY: MAS

ISSUED FOR			
REV	DATE	DRWN	DESCRIPTION
A	08/18/20	DLS	ZONING DRAWINGS
D	08/26/20	DLS	ZONING DRAWINGS

B&T ENGINEERING, INC
COA 4011
Expires 12/31/20



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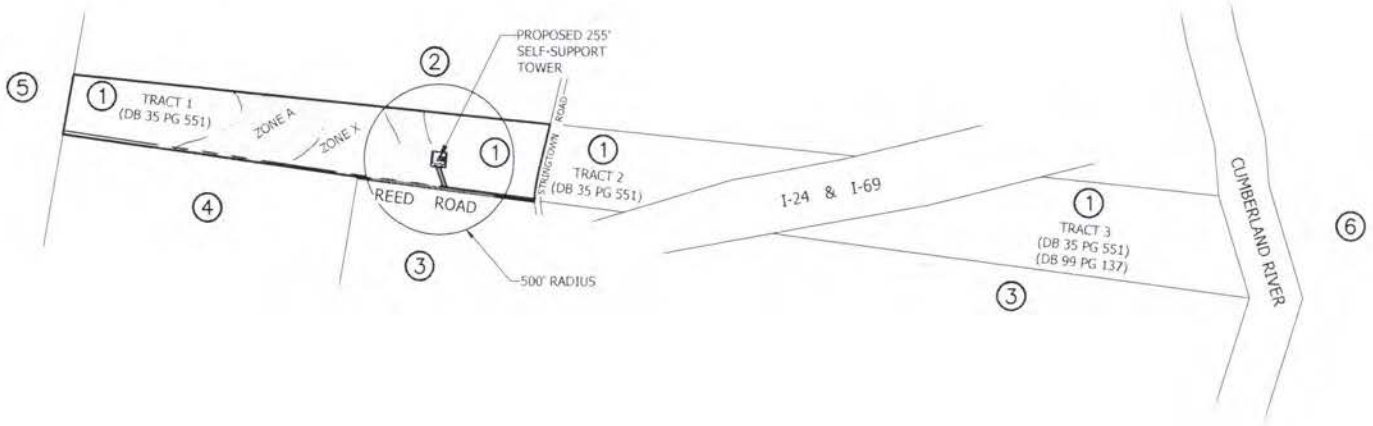
500' RADIUS & ADJOINER'S DRAWING

SHEET NUMBER:
C-1.0

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NOTE:

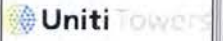
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1 OVERALL ADJOINER'S DRAWING
SCALE 0' 400' 800' 1200' 1600' 1"=800'



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(800) 752-6007
CALL 3 WORKING DAYS
BEFORE YOU DIG!



UNITI TOWERS
LUKA
E-# 15147593
P-# 10068325
880 RUID ROAD
GRAND RIVERS, KY 42045
LIVINGSTON COUNTY
PROPOSED 255' SELF-SUPPORT TOWER

PROJECT NO. 201311
CHECKED BY: MAS

REV	DATE	DRWN	DESCRIPTION
A	08/18/20	DLS	ZONING DRAWINGS
0	08/28/20	DLS	ZONING DRAWINGS

B&T ENGINEERING, INC
DDA 4011
Expires 12/31/20



IF IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

OVERALL
ADJOINER'S
DRAWING

SHEET NUMBER:
C-1.1

EXHIBIT M
COPY OF POSTED NOTICES
AND NEWSPAPER NOTICE ADVERTISEMENT

SITE NAME: LAKE CITY / LUKA
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.

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Uniti Tower LLC, a Delaware limited liability company propose to construct a telecommunications **tower** on this site. If you have questions, please contact Pike Legal Group, PLLC, P.O. Box 369, Shepherdsville, KY 40165; telephone: (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2020-00300 in your correspondence.

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Uniti Tower LLC, a Delaware limited liability company propose to construct a telecommunications **tower** near this site. If you have questions, please contact Pike Legal Group, PLLC, P.O. Box 369, Shepherdsville, KY 40165; telephone: (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2020-00300 in your correspondence.



1578 Highway 44 East, Suite 6
P.O. Box 369
Shepherdsville, KY 40165-0369
Phone (502) 955-4400 or (800) 516-4293
Fax (502) 543-4410 or (800) 541-4410

VIA TELEPHONE: (270) 442-7389
VIA EMAIL: kpieditor@gmail.com

Livingston Ledger
130 W Adair St
Smithland, KY 42081

RE: Legal Notice Advertisement
Site Name: Lake City / Luka

Dear Livingston Ledger:

Please publish the following legal notice advertisement in the next edition of *The Livingston Ledger*.

NOTICE

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Uniti Tower LLC, a Delaware limited liability company have filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located on 880 Reed Road, Grand Rivers, KY 42045 (37° 03' 29.38" North latitude, 88° 14' 10.91" West longitude). 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 2020-00300 in any correspondence sent in connection with this matter.

After this advertisement has been published, please forward a tearsheet copy, affidavit of publication, and invoice to Pike Legal Group, PLLC, P. O. Box 369, Shepherdsville, KY 40165. Please call me at (800) 516-4293 if you have any questions. Thank you for your assistance.

Sincerely,
Chris Shouse
Pike Legal Group, PLLC

EXHIBIT N
COPY OF RADIO FREQUENCY DESIGN SEARCH AREA

