

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

In the Matter of:

THE APPLICATION OF)
SKYWAY TOWERS LLC AND)
CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS)
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC) CASE NO.: 2020-00139
CONVENIENCE AND NECESSITY TO CONSTRUCT)
A WIRELESS COMMUNICATIONS FACILITY)
IN THE COMMONWEALTH OF KENTUCKY)
IN THE COUNTY OF CARROLL)

SITE NAME: LOCUST

* * * * *

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

Skyway Towers, LLC, a Delaware limited liability company, and Cellco Partnership, a Delaware General Partnership d/b/a Verizon Wireless (“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 Verizon Wireless with wireless communications services.

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

1. The complete name and address of the Applicants are: Skyway Towers, LLC,

a Delaware limited liability company, having an address of 3637 Madaca Lane, Tampa, FL 33618 and Cellco Partnership, a Delaware General Partnership, d/b/a Verizon Wireless, having an address of 2421 Holloway Road, Louisville, KY 40299.

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 Applicants submit this application to the PSC for a certificate of public convenience and necessity pursuant to KRS §§ 278.020(1), 278.040, 278.650, 278.665, and other statutory authority.

3. Verizon Wireless is a Delaware general partnership, and a copy of an Amended Certificate of Assumed Name for Applicant entity on file with the Kentucky Secretary of State is attached as part of **Exhibit A**.

4. The Certificate of Authorization issued by the Kentucky Secretary of State for Skyway Towers, LLC and Skyway Towers, LLC's Certificate of Formation are attached as part of **Exhibit A** and are hereby incorporated by reference.

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

6. Verizon Wireless operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. A copy of Verizon Wireless' 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 Verizon Wireless' services to an area currently not served or not adequately served by Verizon Wireless 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 the Verizon Wireless 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 the Verizon Wireless 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 in a lease area at 1002 Fairview Ridge, Milton, KY 40045 (38° 42' 20.66" North latitude, 85° 16' 51.00" 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 RWF Legacy Ranch, Inc. pursuant to a Deed recorded at Deed Book 204, Page 467 in the office of the County Clerk. The proposed WCF will consist of a 245-foot tall tower, with an approximately 10-foot tall lightning arrestor attached at the top, for a total height of 255-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of the Applicant's radio electronics equipment and appurtenant equipment. The Applicant's equipment cabinet or shelter will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The WCF compound will be fenced and all access gate(s) will be secured. A description of the manner in which the proposed WCF will be constructed is attached as **Exhibit 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 the antennas of Verizon Wireless 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 has concluded that there is no more suitable location reasonably available from which adequate services can be provided, and that there are no reasonably available opportunities to co-locate Applicant's antennas on an existing structure. When suitable towers or structures exist, Applicants attempt to co-locate on existing structures such as communications towers or other structures capable of supporting Applicant's facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site.

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 Kentucky Airport Zoning Commission ("KAZC") approval to construct the tower 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. Applicants, pursuant to a written agreement, have acquired the right to use the WCF site and associated property rights. A copy of the agreement or an abbreviated agreement recorded with the County Clerk is attached as **Exhibit 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 Jay Cantu 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 heavily wooded.

26. The process that was used by Verizon Wireless radio frequency engineers in selecting the site for the proposed WCF was consistent with the general process used for selecting all other existing and proposed WCF facilities within the proposed network design area. Applicant's radio frequency engineers have conducted studies and tests in order to develop a highly efficient network that is designed to handle voice and data traffic in the service area. The engineers determined an optimum area for the placement of the proposed facility in terms of elevation and location to provide the best quality service to customers in the service area. A radio frequency design search area prepared in reference to these radio frequency studies was considered by the Applicants when searching for sites for its antennas that would provide the coverage deemed necessary by Verizon Wireless Radio Frequency Engineers. 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, Applicants respectfully request that the PSC accept the foregoing Application for filing, and having met the requirements of KRS §§ 278.020(1), 278.650, and 278.665 and all applicable rules and regulations of the PSC, grant a Certificate of Public Convenience and Necessity to construct and operate the WCF at the location set forth herein.

Respectfully submitted,



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

Addendum

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

<i>General Partners of Cellco Partnership</i>	<i>Address</i>
Bell Atlantic Mobile Systems LLC	One Verizon Way Basking Ridge, NJ 07920
GTE Wireless LLC	One Verizon Way Basking Ridge, NJ 07920
Verizon Americas Inc.	One Verizon Way Basking Ridge, NJ 07920
GTE Wireless of the Midwest Incorporated	One Verizon Way Basking Ridge, NJ 07920



COMMONWEALTH OF KENTUCKY
ALISON LUNDERGAN GRIMES, SECRETARY OF STATE

0889888.06 amcray
 ADD
 Alison Lundergan Grimes
 Kentucky Secretary of State
 Received and Filed:
 6/16/2014 1:42 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

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 Skyway 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 11/14/2014 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
20525 Amberfield Drive, Suite 102 Land O Lakes FL 34638
 Street Address City State Zip Code

7. The street address of the entity's registered office in Kentucky is
306 W. 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 Behuniak	20525 Amberfield Drive, Suite 102	Land O Lakes	FL	34638
Scott Behuniak	20525 Amberfield Drive, Suite 102	Land O Lakes	FL	34638
Eric Bondurant	20525 Amberfield Drive, Suite 102	Land O Lakes	FL	34638

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. 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] Daniel Behuniak, CEO 6/10/2014
 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

By: [Signature] _____
 Signature of Registered Agent Printed Name Title Date

Angel Nunez
Assistant Secretary

Commonwealth of Kentucky
Alison Lundergan Grimes, Secretary of State

LARP

0889888
Alison Lundergan Grimes
KY Secretary of State
Received and Filed
6/20/2019 7:51:53 PM
Fee receipt: \$15.00

Alison Lundergan Grimes
Secretary of State
P. O. Box 1150
Frankfort, KY 40602-1150
(502) 564-3490
<http://www.sos.ky.gov>

Annual Report
Online Filing

ARP

Company: SKYWAY TOWERS, LLC
Company ID: 0889888
State of origin: Delaware
Formation date: 6/16/2014 12:00:00 AM
Date filed: 6/20/2019 7:51:53 PM
Fee: \$15.00

Principal Office

3637 MADACA LANE
TAMPA, FL 33618

Registered Agent Name/Address

Corporation Service Company
421 WEST MAIN STREET
FRANKFORT, KY 40601

Members/Managers

Manager	DANIEL P. BEHUNIAK	3637 Madaca Lane Tampa, FL 33618
Manager	ERIC P. BONDURANT	3637 Madaca Lane Tampa, FL 33618
Manager	SCOTT M. BEHUNIAK	3637 Madaca Lane Tampa, FL 33618

Signatures

Signature	DANIEL P BEHUNIAK
Title	MANAGER

REFERENCE COPY

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



Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign KNKN837	File Number
Radio Service CL - Cellular	
Market Numer CMA449	Channel Block A
Sub-Market Designator 0	

FCC Registration Number (FRN): 0003290673

Market Name Kentucky 7 - Trimble
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Grant Date 08-30-2011	Effective Date 11-01-2016	Expiration Date 10-01-2021	Five Yr Build-Out Date	Print Date
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Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
1	38-10-37.0 N	085-06-25.0 W	360.0	90.8	1036601

Address: Top of Shelbyville Mountain

City: Shelbyville County: SHELBY State: KY Construction Deadline:

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	188.400	190.600	203.000	190.500	202.900	218.800	217.100	203.300
Transmitting ERP (watts)	27.480	50.000	19.910	2.510	0.210	0.100	0.440	3.790

Antenna: 5

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	188.400	190.600	203.000	190.500	202.900	218.800	217.100	203.300
Transmitting ERP (watts)	0.100	0.100	1.440	2.380	0.480	2.380	1.580	0.100

Antenna: 6

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	188.400	190.600	203.000	190.500	202.900	218.800	217.100	203.300
Transmitting ERP (watts)	51.690	14.230	1.140	0.300	0.570	8.130	41.390	69.660

Conditions:

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN837

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
2	38-12-25.9 N	084-51-45.2 W	211.2	56.9	1051445

Address: 400C Clifton Avenue

City: FRANKFORT County: FRANKLIN State: KY Construction Deadline:

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	62.300	35.800	23.200	8.600	71.400	29.500	60.100	36.900
Transmitting ERP (watts)	55.320	50.990	15.260	1.540	0.340	1.580	15.980	54.030

Antenna: 5

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	62.300	35.800	23.200	8.600	71.400	29.500	60.100	36.900
Transmitting ERP (watts)	3.530	29.600	58.750	55.210	43.890	7.580	0.410	0.240

Antenna: 6

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	62.300	35.800	23.200	8.600	71.400	29.500	60.100	36.900
Transmitting ERP (watts)	3.590	0.240	0.490	7.700	44.940	57.490	54.760	29.400

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
3	38-28-54.3 N	085-15-56.5 W	252.9	90.5	1036602

Address: 4920 Fallen Timber Drive

City: SULPHUR County: HENRY State: KY Construction Deadline:

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	126.900	85.200	102.800	77.800	84.300	95.500	105.400	97.100
Transmitting ERP (watts)	0.390	10.470	67.610	87.100	22.910	1.150	0.200	0.200

Antenna: 5

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	126.900	85.200	102.800	77.800	84.300	95.500	105.400	97.100
Transmitting ERP (watts)	0.370	0.200	0.200	1.260	23.990	87.100	66.070	10.000

Antenna: 6

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	85.200	102.800	77.800	84.300	95.500	105.400	97.100
Transmitting ERP (watts)	95.500	43.650	3.550	0.200	0.200	0.200	3.980	44.670

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN837

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
4	38-38-10.0 N	085-05-53.5 W	245.3	90.2	1036425

Address: 312 Whites Run Road

City: CARROLLTON County: CARROLL State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	156.300	107.900	120.600	148.800	94.800	91.100	112.600	147.700
Transmitting ERP (watts)	0.200	11.220	72.440	91.200	25.700	0.370	0.200	0.200

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	156.300	107.900	120.600	148.800	94.800	91.100	112.600	147.700
Transmitting ERP (watts)	0.200	0.200	0.200	0.940	18.570	33.150	30.890	10.840

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	156.300	107.900	120.600	148.800	94.800	91.100	112.600	147.700
Transmitting ERP (watts)	33.110	26.080	3.390	0.200	0.200	0.200	4.070	24.940

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
5	38-43-25.0 N	084-51-06.0 W	246.9	90.8	1036424

Address: 120 Boone Trail (off Highway 455)

City: Sparta County: GALLATIN State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	127.200	119.000	114.900	96.300	80.600	140.600	110.100	133.300
Transmitting ERP (watts)	0.200	0.500	11.300	20.180	19.990	13.040	0.740	0.200

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	127.200	119.000	114.900	96.300	80.600	140.600	110.100	133.300
Transmitting ERP (watts)	6.850	0.200	0.200	0.200	1.830	17.930	20.220	19.450

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	127.200	119.000	114.900	96.300	80.600	140.600	110.100	133.300
Transmitting ERP (watts)	20.450	20.140	19.650	2.430	0.200	0.200	0.200	5.480

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN837

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
6	38-43-30.0 N	084-38-29.0 W	275.2	90.8	1036179

Address: 3000 Dry Ridge Mount Zion Road

City: DRY RIDGE County: GRANT State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	112.100	115.000	114.500	92.600	110.000	136.400	142.300	143.700
Transmitting ERP (watts)	0.360	9.930	41.040	48.250	18.580	1.120	0.200	0.200

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	112.100	115.000	114.500	92.600	110.000	136.400	142.300	143.700
Transmitting ERP (watts)	0.350	0.200	0.200	1.230	19.460	48.290	40.110	9.480

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	112.100	115.000	114.500	92.600	110.000	136.400	142.300	143.700
Transmitting ERP (watts)	51.290	30.370	3.550	0.200	0.200	0.200	3.980	31.080

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
7	38-35-22.1 N	084-34-38.2 W	286.5	91.7	1036600

Address: 8162 Dixie Highway

City: Williamstown County: GRANT State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	99.800	117.800	153.400	131.200	103.300	124.100	129.900	133.100
Transmitting ERP (watts)	0.200	14.790	79.430	87.100	21.880	0.200	0.200	0.200

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)	99.800	117.800	153.400	131.200	103.300	124.100	129.900	133.100
Transmitting ERP (watts)	0.200	0.200	0.200	1.660	32.360	95.500	66.070	7.760

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	99.800	117.800	153.400	131.200	103.300	124.100	129.900	133.100
Transmitting ERP (watts)	100.000	41.690	1.950	0.200	0.200	0.200	6.030	56.230

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN837

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
8	38-12-03.3 N	085-19-18.8 W	228.6	90.8	1036180

Address: (Simpsonville) 7202 Brunerstown Road

City: SIMPSONVILLE County: SHELBY State: KY Construction Deadline:

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	77.800	77.700	82.200	92.900	103.900	101.600	100.000	92.400
Transmitting ERP (watts)	23.690	197.020	127.210	10.100	0.960	0.960	0.960	1.460

Antenna: 5

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	77.800	77.700	82.200	92.900	103.900	101.600	100.000	92.400
Transmitting ERP (watts)	0.700	0.700	5.510	77.010	274.490	96.500	7.530	0.740

Antenna: 6

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	77.800	77.700	82.200	92.900	103.900	101.600	100.000	92.400
Transmitting ERP (watts)	25.970	1.720	0.960	0.960	0.960	8.600	124.310	201.610

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
9	38-41-11.3 N	084-20-37.8 W	244.4	88.4	1036605

Address: RT 1 BOX 510A SNAKE HILL OFF MONROE RD

City: FALMOUTH County: PENDLETON State: KY Construction Deadline:

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	146.200	108.800	86.000	113.400	88.700	111.100	81.600	95.800
Transmitting ERP (watts)	0.200	11.220	72.440	91.200	25.700	0.370	0.200	0.200

Antenna: 5

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	146.200	108.800	86.000	113.400	88.700	111.100	81.600	95.800
Transmitting ERP (watts)	0.200	0.200	0.200	0.910	26.300	91.200	74.130	12.020

Antenna: 6

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	146.200	108.800	86.000	113.400	88.700	111.100	81.600	95.800
Transmitting ERP (watts)	97.720	4.900	0.210	0.200	0.200	0.200	0.200	5.370

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN837

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
10	38-24-39.0 N	084-19-07.0 W	244.0	129.0	1044001

Address: 0.4 KM NE OF SR 36 2.9 KM NE

City: Cynthiana County: HARRISON State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	106.300	106.200	91.500	96.400	97.000	87.700	83.600	113.900
Transmitting ERP (watts)	0.300	12.030	75.920	91.280	26.320	0.960	0.200	0.200

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)	106.300	106.200	91.500	96.400	97.000	87.700	83.600	113.900
Transmitting ERP (watts)	0.350	0.200	0.200	1.000	26.940	93.400	74.190	10.720

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	106.300	106.200	91.500	96.400	97.000	87.700	83.600	113.900
Transmitting ERP (watts)	100.080	50.160	3.980	0.270	0.200	0.200	4.080	50.160

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
11	38-09-19.0 N	084-54-05.0 W	243.8	67.1	1036604

Address: 396 OLD HARRODSBURG RD

City: FRANKFORT County: FRANKLIN State: KY Construction Deadline:

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	87.400	89.800	61.900	68.700	66.700	57.900	65.300	79.300
Transmitting ERP (watts)	3.550	22.910	39.810	22.390	3.310	0.270	0.100	0.300

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	87.400	89.700	61.900	68.700	66.700	57.900	65.200	79.300
Transmitting ERP (watts)	49.000	6.310	0.490	0.200	0.980	12.030	64.600	97.770

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
12	38-39-42.6 N	085-11-59.5 W	260.6	64.0	1235824

Address: (Carrollton) 211 Davis Lane

City: CARROLLTON County: CARROLL State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	99.800	130.700	115.800	93.100	74.200	96.700	62.500	115.500
Transmitting ERP (watts)	13.140	322.530	387.760	42.520	4.060	1.230	1.020	1.020

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN837

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
12	38-39-42.6 N	085-11-59.5 W	260.6	64.0	1235824

Address: (Carrollton) 211 Davis Lane

City: CARROLLTON County: CARROLL State: KY Construction Deadline:

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)	99.800	130.700	115.800	93.100	74.200	96.700	62.500	115.500
Transmitting ERP (watts)	0.760	2.050	53.790	380.820	138.270	8.330	1.290	0.760

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	99.800	130.700	115.800	93.100	74.200	96.700	62.500	115.500
Transmitting ERP (watts)	1.140	1.020	1.020	3.970	144.070	499.530	109.290	5.110

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
13	38-34-31.7 N	085-10-49.7 W	254.8	92.0	1000357

Address: 1299 MILL CREEK RD

City: TURNERS CORNER County: HENRY State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	149.700	134.900	138.900	105.800	75.600	92.700	100.700	106.700
Transmitting ERP (watts)	0.390	10.470	67.610	87.100	22.910	1.150	0.200	0.200

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)	149.700	134.900	138.900	105.800	75.600	92.700	100.700	106.700
Transmitting ERP (watts)	0.370	0.200	0.200	1.260	23.990	87.100	66.070	10.000

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	149.700	134.900	138.900	105.800	75.600	92.700	100.700	106.700
Transmitting ERP (watts)	95.500	43.650	3.550	0.200	0.200	0.200	3.980	44.670

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
14	38-40-30.2 N	084-58-18.8 W	245.7	91.1	1000358

Address: 7238 KENTUCKY HWY 47

City: SANDERS County: CARROLL State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	135.500	116.800	113.800	90.000	115.700	134.700	115.100	130.100
Transmitting ERP (watts)	0.200	0.910	26.300	91.200	74.130	12.020	0.200	0.200

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN837

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
14	38-40-30.2 N	084-58-18.8 W	245.7	91.1	1000358

Address: 7238 KENTUCKY HWY 47

City: SANDERS County: CARROLL State: KY Construction Deadline:

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)	135.500	116.800	113.800	90.000	115.700	134.700	115.100	130.100
Transmitting ERP (watts)	3.390	0.200	0.200	0.200	4.070	24.940	33.110	26.080

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	135.500	116.800	113.800	90.000	115.700	134.700	115.100	130.100
Transmitting ERP (watts)	30.230	33.150	18.280	0.380	0.200	0.200	0.200	10.140

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
15	38-22-31.0 N	085-10-05.6 W	271.3	126.2	1000277

Address: 474 ELM ST

City: EMINENCE County: HENRY State: KY Construction Deadline:

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	93.400	115.800	125.100	97.500	110.900	108.400	102.900	96.500
Transmitting ERP (watts)	0.350	3.550	37.150	93.330	77.620	18.620	1.740	0.200

Antenna: 5

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	93.400	115.800	125.100	97.500	110.900	108.400	102.900	96.500
Transmitting ERP (watts)	8.320	0.680	0.200	0.740	8.910	57.540	100.000	56.230

Antenna: 6

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	93.400	115.800	125.100	97.500	110.900	108.400	102.900	96.500
Transmitting ERP (watts)	77.620	93.330	35.480	3.390	0.270	0.200	1.860	19.500

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
16	38-36-14.0 N	085-20-21.9 W	262.7	126.2	1043334

Address: COLBERT LANE

City: BEDFORD County: TRIMBLE 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)	119.700	114.200	128.200	102.700	100.400	180.500	135.200	147.800
Transmitting ERP (watts)	18.090	60.420	1.770	2.060	1.770	1.770	11.150	67.550

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN837

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
16	38-36-14.0 N	085-20-21.9 W	262.7	126.2	1043334

Address: COLBERT LANE

City: BEDFORD County: TRIMBLE State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	119.700	114.200	128.200	102.700	100.400	180.500	135.200	147.800
Transmitting ERP (watts)	2.500	37.650	400.090	508.440	97.060	4.000	2.110	1.770

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)	119.700	114.200	128.200	102.700	100.400	180.500	135.200	147.800
Transmitting ERP (watts)	3.280	1.770	1.770	3.180	133.980	496.870	390.980	21.150

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	38-12-30.4 N	084-50-11.5 W	233.5	54.8	

Address: Hwy 127 East 916 East Main Street

City: Frankfort County: FRANKLIN State: KY Construction Deadline: 02-05-2011

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)	75.600	35.900	31.000	25.800	60.900	56.300	86.000	56.700
Transmitting ERP (watts)	458.530	214.470	17.840	0.910	0.910	0.910	24.060	224.580

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	75.600	35.900	31.000	25.800	60.900	56.300	86.000	56.700
Transmitting ERP (watts)	0.910	53.690	223.450	268.120	98.870	3.650	0.910	0.910

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)	75.600	35.900	31.000	25.800	60.900	56.300	86.000	56.700
Transmitting ERP (watts)	0.910	0.910	0.910	7.110	61.760	33.430	37.730	41.260

Control Points:

Control Pt. No. 3

Address: 500 W. Dove Rd

City: Southlake County: TARRANT State: TX Telephone Number: (800)264-6620

Waivers/Conditions:

NONE

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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WQCS429), File Number, and Radio Service (CW - PCS Broadband).

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

NONE

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQCS429

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign WQGA718	File Number 0007518718
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

Grant Date 11-29-2006	Effective Date 12-13-2016	Expiration Date 11-29-2021	Print Date 02-04-2017
Market Number REA004	Channel Block F	Sub-Market Designator 15	
Market Name Mississippi Valley			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGA718

File Number: 0007518718

Print Date: 02-04-2017

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WQGA958), File Number, and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz)).

FCC Registration Number (FRN): 0003290673

Table with columns: Grant Date (11-29-2006), Effective Date (11-01-2016), Expiration Date (11-29-2021), Print Date, Market Number (BEA070), Channel Block (B), Sub-Market Designator (0), Market Name (Louisville, KY-IN), and 1st-4th Build-out Dates.

Waivers/Conditions:

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

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGA958

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WQJQ692), File Number (0008587218), and Radio Service (WU - 700 MHz Upper Band (Block C)).

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

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

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

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQJQ692

File Number: 0008587218

Print Date: 01-14-2020

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**



3637 MADACA LANE
TAMPA, FL 33618

LOCUST

KY-03072

1002 FAIRVIEW RIDGE
MILTON, KY 40045
CARROLL COUNTY

TENANT: CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS
"LV LOCUST"

FROM CARROLL COUNTY FISCAL COURT: 440 MAIN STREET, CARROLLTON, KY 41008: HEAD SOUTH ON COURT ST TOWARD HIGHLAND AVE (217 FEET). TURN RIGHT ONTO US-42/HIGHLAND AVE (1.7 MILES). CONTINUE STRAIGHT ONTO KY-36 W (2.8 MILES). TURN LEFT ONTO STATE HWY 1492 (1.7 MILES). SLIGHT RIGHT ONTO FAIRVIEW RIDGE RD (1.0 MILE). SITE WILL BE LOCATED ON LEFT (SOUTH) SIDE OF ROAD.

FROM LOUISVILLE MTSO: 2421 HOLLOWAY ROAD LOUISVILLE, KY 40299: HEAD SOUTH ON HOLLOWAY RD TOWARD PLANTSIDE DR (0.1 MILES). TURN LEFT AT THE 1ST CROSS STREET ONTO PLANTSIDE DR (0.9 MILES). USE THE LEFT 2 LANES TO TURN LEFT ONTO BLANKENBAKER PKWY (0.7 MILES). USE THE RIGHT LANE TO TAKE THE RAMP ONTO I-64 E (0.3 MILES). MERGE ONTO I-64 E (1.6 MILES). TAKE EXIT 19B FOR KY-841 N/GENE SNYDER FWY/I-265 N (0.3 MILES). MERGE ONTO I-265/KY-841 E/GENE SNYDER FWY (8.9 MILES). TAKE EXIT 35A TO MERGE ONTO I-71 N TOWARD CINCINNATI (24.2 MILES). TAKE EXIT 34 FOR U.S. 421 TOWARD BEDFORD/CAMPBELLSBURG (0.3 MILES). TURN LEFT ONTO US-421 N/CAMPBELLSBURG RD (7.6 MILES). TURN RIGHT ONTO MAIN ST (0.2 MILES). TURN LEFT ONTO US-421 N (6.6 MILES). TURN RIGHT ONTO STATE HWY 1492 (3.4 MILES). CONTINUE ONTO FAIRVIEW RIDGE RD (469 FEET). SITE WILL BE LOCATED ON RIGHT (SOUTH) SIDE OF ROAD.

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

NEW 245' SELF SUPPORT TOWER w/10' LIGHTNING ARRESTOR TOTAL TOWER HEIGHT 255'

SKYWAY TOWERS SITE	POLICE
LOCUST SITE #: KY-03072	CARROLL COUNTY SHERIFF 440 MAIN ST CARROLLTON, KY 41008 PHONE: (502) 732-7010
VERIZON WIRELESS SITE	FIRE
LV LOCUST PROJECT#: 20171594798 LOCATION CODE: 311922	WESTSIDE VOLUNTEER FIRE DEPARTMENT 680 CARLISLE ST CARROLLTON, KY 41008 PHONE: (502) 732-5668
SITE ADDRESS	GENERAL INFORMATION
1002 FAIRVIEW RIDGE MILTON, KY 40045 CARROLL COUNTY E911 ADDRESS: TBD	LATITUDE : 38° 42' 20.66" N LONGITUDE : 85° 16' 51.00" W 1983 (NAD83) ELEVATION : 835.5'± AMSL 1988 (NAVD88)
TOWER OWNER	SKYWAY TOWERS LEASED PREMISES
SKYWAY TOWERS 3637 MADACA LANE TAMPA, FL 33618 CONTACT: CARRIE TORREY PHONE: (813) 960-6213 MOBILE: (813) 928-4824 E-MAIL: CTORREY@SKYWAYTOWERS.COM	100'-0" x 100'-0" (10,000 SF)
PROPERTY OWNER	VERIZON WIRELESS LEASE AREA
RWF LEGACY RANCH, INC. 242 SW 5TH STREET POMPANO BEACH, FL 33060 CONTACT: TOLEIHA WILLIAMSON, CEO PHONE: (954) 782-2370	12'-0" x 30'-0" (360 SF)
	PROJECT TOTAL DISTURBED AREA
	COMPOUND: (10,000 SF) = (0.23 ACRE) ACCESS DRIVE: (12,515 SF) = (0.29 ACRE) GROSS AREA: (22,515 SF) = (0.52 ACRE)

PROJECT SUMMARY



VICINITY MAP

NOTE: ALL ITEMS WITHIN THESE CONSTRUCTION DOCUMENTS ARE BY TOWER OWNER'S GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS UNLESS NOTED AS (VZW GC) WHICH SHALL INCLUDE VERIZON WIRELESS GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS. GENERALLY DESCRIBED BELOW:
SKYWAY TOWERS SCOPE:
<ul style="list-style-type: none"> INSTALL A NEW 245' SELF SUPPORT TOWER w/ 10' LIGHTNING ROD (TOTAL 255') INSTALL A NEW TOWER FOUNDATION SYSTEM INSTALL A NEW 80'X75' FENCED GRAVEL COMPOUND INSTALL A NEW SITE H-FRAME INSTALL NEW TOWER LIGHTING AND TOWER LIGHTING CONTROLLER REROUTE EXISTING WATER LINE AWAY FROM COMPOUND INSTALL A NEW ELECTRICAL SERVICE RUN TO SITE H-FRAME INSTALL A NEW GRAVEL ACCESS DRIVE NO WATER OR SEWAGE SERVICES RUN TO SITE INSTALL NEW TOWER & SITE GROUNDING SYSTEM INSTALL NEW VZW SUBSURFACE GROUNDING SYSTEM INSTALL A NEW 11'-6"x19'-6" CONCRETE EQUIPMENT PAD INSTALL ELECTRICAL SERVICE CONDUIT WITH PULL TAPES FROM ILC ENCLOSURE STUB-UP WITHIN VZW EQUIPMENT PAD TO UTILITY H-FRAME INSTALL NEW CONDUITS WITH PULL TAPES FROM VZW ILC ENCLOSURE STUB-UPS TO EQUIPMENT ENCLOSURE STUB-UPS WITHIN VZW EQUIPMENT PAD INSTALL NEW CONDUITS WITH PULL TAPES FROM RF CABINET TO OVP H-FRAME LIT FIBER LOCATION INSTALL (1) NEW "VERIZON WIRELESS ONLY" FIBER OPTIC CONDUIT WITH PULL TAPE AND TRACER WIRE FROM VZW EQUIPMENT TO NEW "VERIZON WIRELESS ONLY" 24" x 36" HAND HOLE OUTSIDE COMPOUND INSTALL (1) NEW "VERIZON WIRELESS ONLY" FIBER OPTIC CONDUIT WITH PULL TAPE AND TRACER WIRE FROM NEW "VERIZON WIRELESS ONLY" 24" x 36" HAND HOLE OUTSIDE COMPOUND TO NEW "VERIZON WIRELESS ONLY" 36" x 60" HAND HOLE AT ROW INSTALL (1) NEW "VERIZON WIRELESS ONLY" FIBER OPTIC CONDUIT WITH PULL TAPE FROM NEW "VERIZON WIRELESS ONLY" 24" x 36" HAND HOLE OUTSIDE COMPOUND AND STUB UP AT FUTURE FIBER PEDESTAL LOCATION PERMANENT ELECTRIC POWER MUST BE AVAILABLE FOR VERIZON WIRELESS AT THE METER BASE PRIOR TO THE SITE BEING RELEASED AS TENANT READY.
VERIZON WIRELESS SCOPE (VZW GC):
<ul style="list-style-type: none"> INSTALL A NEW 11'-6"x14'-9" PREFABRICATED CANOPY ON EXISTING CONCRETE PAD FOUNDATION INSTALL VZW ICE BRIDGE AND FOUNDATIONS INSTALL VZW ANTENNA MOUNTING SUPPORT STRUCTURE ON TOWER INSTALL VZW ANTENNAS, LINES, COAX, GPS ANTENNA AND RADIO EQUIPMENT INSTALL EXISTING SUBSURFACE GROUND LEADS TO VZW EQUIPMENT & FACILITIES INSTALL VZW ELECTRIC SERVICE CONDUCTORS FROM UTILITY H-FRAME TO VZW ILC ENCLOSURE INSTALL CIRCUITS FROM VZW ILC TO VZW EQUIPMENT ENCLOSURES INSTALL NEW OUTDOOR OVP AND CABLING H-FRAME SUPPORT INSTALL (2) 1-1/4" & (1) 1" INNERDUCTS WITH PULL TAPES AND TRACER WIRE WITHIN OWNER INSTALLED "VERIZON WIRELESS ONLY" FIBER OPTIC CONDUITS

PROJECT DESCRIPTION



LOCATION MAP

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.	
BUILDING CODE	2018 KENTUCKY BUILDING CODE
STRUCTURAL CODE	TIA/EIA-222 - REVISION G (INCLUDES ADDENDUM #2)
MECHANICAL CODE	2012 INTERNATIONAL MECHANICAL CODE (IMC 2012)
PLUMBING CODE	KENTUCKY STATE PLUMBING CODE (815 KAR CHAP. 20)
ELECTRICAL CODE	2014 NATIONAL ELECTRICAL CODE (NEC) - NFPA 70
FIRE/LIFE SAFETY CODE	2012 INTERNATIONAL FIRE CODE (2012 IFC)
ENERGY CODE	2012 INTERNATIONAL ENERGY CODE (COMMERCIAL)
GAS CODE	2009 NATIONAL FUEL GAS CODE (NFPA 54)
ACCESSIBILITY REQUIREMENTS:	
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2009 IBC BUILDING CODE.	
APPLICABLE CODES	

SURVEYOR	ARCHITECTURAL
POWER OF DESIGN GROUP, LLC 11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40299 PHONE: (502) 437-5252	POWER OF DESIGN GROUP, LLC 11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40299 PHONE: (502) 437-5252
ELECTRICAL	ELECTRICAL UTILITY COORDINATION
SHELBY ENERGY COOPERATIVE INC ADDRESS: 620 OLD FINCHVILLE RD SHELBYVILLE, KY 40065 CONTACT: TBD PHONE: (502) 633-4420 EMAIL: TBD	IS NOT FINALIZED. DO NOT PROCEED WITH CONSTRUCTION.

CONSULTANT TEAM



AERIAL

SHEET NUMBER	DESCRIPTION
T-1	PROJECT INFORMATION, SITE MAPS, SHEET INDEX
B-1 TO B-1.1	SITE SURVEY
B-2	500' RADIUS AND BUTTERS MAP
R-1	REVISION LOG
TOWER ELEVATION	TOWER ELEVATION
TE-1	
CIVIL	OVERALL SITE PLAN w/AERIAL OVERLAY
C-1	OVERALL SITE PLAN
C-1A	DETAILED SITE PLAN
C-3	
C-4	DIMENSIONED SITE PLAN



04/20/2020

EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	3.12.20	ISSUED FOR REVIEW
0	4.20.20	ISSUED AS FINAL

SITE INFORMATION:
LOCUST
1002 FAIRVIEW RIDGE
MILTON, KY 40045
CARROLL COUNTY

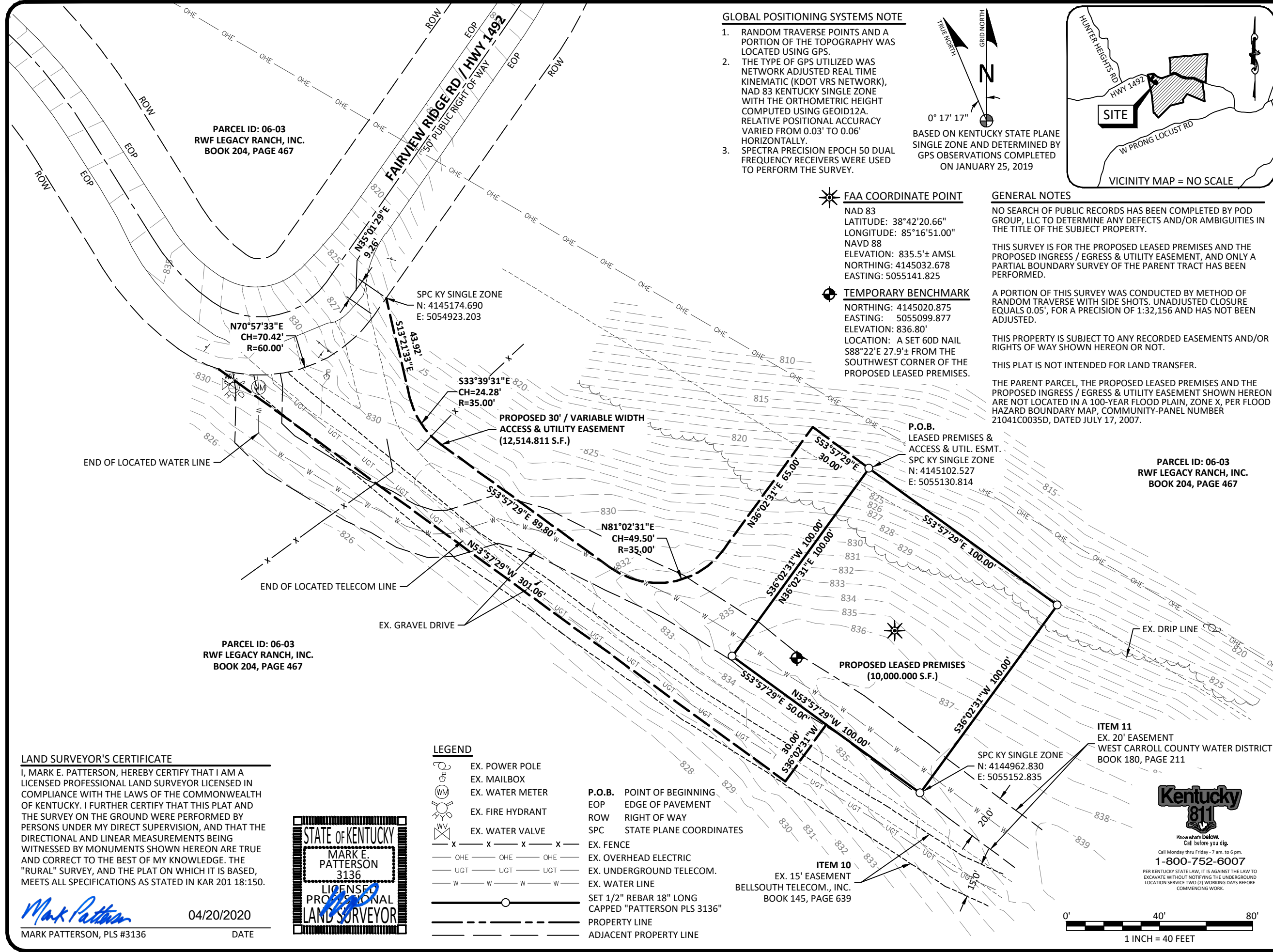
SKYWAY SITE NUMBER:
KY-03072

VERIZON WIRELESS SITE NAME:
LV LOCUST

POD NUMBER: 18-23442
DRAWN BY: POD
CHECKED BY: MEP
DATE: 03.10.20

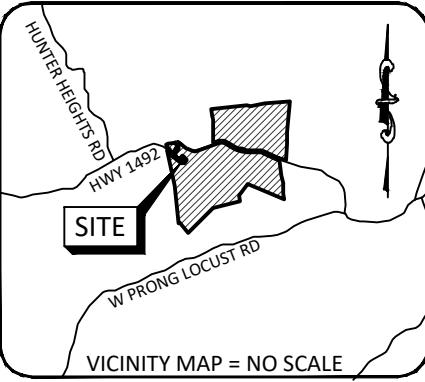
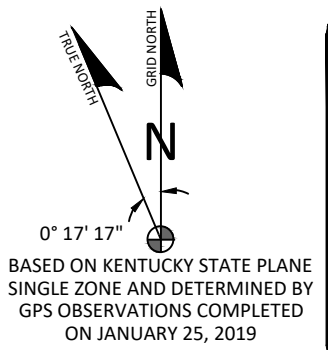
SHEET TITLE:
PROJECT INFORMATION, SITE MAPS, SHEET INDEX

SHEET NUMBER:
T-1



GLOBAL POSITIONING SYSTEMS NOTE

1. RANDOM TRAVERSE POINTS AND A PORTION OF THE TOPOGRAPHY WAS LOCATED USING GPS.
2. THE TYPE OF GPS UTILIZED WAS NETWORK ADJUSTED REAL TIME KINEMATIC (KDOT VRS NETWORK), NAD 83 KENTUCKY SINGLE ZONE WITH THE ORTHOMETRIC HEIGHT COMPUTED USING GEOID12A. RELATIVE POSITIONAL ACCURACY VARIED FROM 0.03' TO 0.06' HORIZONTALLY.
3. SPECTRA PRECISION EPOCH 50 DUAL FREQUENCY RECEIVERS WERE USED TO PERFORM THE SURVEY.



FAA COORDINATE POINT
 NAD 83
 LATITUDE: 38°42'20.66"
 LONGITUDE: 85°16'51.00"
 NAVD 88
 ELEVATION: 835.5'± AMSL
 NORTHING: 4145032.678
 EASTING: 5055141.825

TEMPORARY BENCHMARK
 NORTHING: 4145020.875
 EASTING: 5055099.877
 ELEVATION: 836.80'
 LOCATION: A SET 60D NAIL S88°22'E 27.9'± FROM THE SOUTHWEST CORNER OF THE PROPOSED LEASED PREMISES.

GENERAL NOTES

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

THIS SURVEY IS FOR THE PROPOSED LEASED PREMISES AND THE PROPOSED INGRESS / EGRESS & UTILITY EASEMENT SHOWN HEREON ARE NOT LOCATED IN A 100-YEAR FLOOD PLAIN, ZONE X, PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 21041C0035D, DATED JULY 17, 2007.

A PORTION OF THIS SURVEY WAS CONDUCTED BY METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. UNADJUSTED CLOSURE EQUALS 0.05', FOR A PRECISION OF 1:32,156 AND HAS NOT BEEN ADJUSTED.

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

THIS PLAT IS NOT INTENDED FOR LAND TRANSFER.

THE PARENT PARCEL, THE PROPOSED LEASED PREMISES AND THE PROPOSED INGRESS / EGRESS & UTILITY EASEMENT SHOWN HEREON ARE NOT LOCATED IN A 100-YEAR FLOOD PLAIN, ZONE X, PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 21041C0035D, DATED JULY 17, 2007.

PREPARED BY:

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

PREPARED FOR:

3637 MADACA LANE
 TAMPA, FL 33618
 (813) 960-6200

SURVEY

REV.	DATE	DESCRIPTION
A	02.12.19	PRELIM ISSUE w/ TITLE
B	12.16.19	UPDATED TITLE REVIEW

SITE INFORMATION:

LOCUST
 1002 FAIRVIEW RIDGE
 MILTON, KY 40045
 CARROLL COUNTY

TAX PARCEL NUMBER:
 06-03

PROPERTY OWNERS:
 RWF LEGACY RANCH, INC.
 242 SW 5TH STREET
 POMPANO BEACH, FL 33060

SOURCE OF TITLE:
 BOOK 204, PAGE 467

SKYWAY SITE NUMBER:
 KY-03072

VERIZON SITE NAME:
 LV LOCUST

POD NUMBER: 18-23435

DRAWN BY: CPM
CHECKED BY: MEP
SURVEY DATE: 01.25.19
PLAT DATE: 02.12.19

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

SHEET NUMBER: (2 pages)
B-1

LAND SURVEYOR'S CERTIFICATE

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

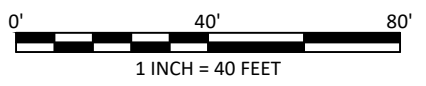
Mark Patterson
 MARK PATTERSON, PLS #3136

04/20/2020
 DATE



LEGEND

	EX. POWER POLE		P.O.B. POINT OF BEGINNING
	EX. MAILBOX		EOP EDGE OF PAVEMENT
	EX. WATER METER		ROW RIGHT OF WAY
	EX. FIRE HYDRANT		SPC STATE PLANE COORDINATES
	EX. WATER VALVE		EX. FENCE
	OHE OHE OHE		EX. OVERHEAD ELECTRIC
	UGT UGT UGT		EX. UNDERGROUND TELECOM.
	W W W W		EX. WATER LINE
	—		SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136"
	- - -		PROPERTY LINE
			ADJACENT PROPERTY LINE



LEGAL DESCRIPTIONS

PROPOSED LEASED PREMISES

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED LEASED PREMISES TO BE LEASED FROM THE PROPERTY CONVEYED TO RWF LEGACY RANCH, INC. AS RECORDED IN THE CLERKS OFFICE OF CARROLL COUNTY, KENTUCKY IN BOOK 204, PAGE 467, PARCEL ID: 06-03, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEARING DATUM USED HEREIN IS BASED UPON KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE, NAD 83, FROM A REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM OBSERVATION USING THE KENTUCKY TRANSPORTATION CABINET REAL TIME GPS NETWORK COMPLETED ON JANUARY 25, 2019.

BEGINNING AT A SET 1/2" REBAR WITH CAP STAMPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC" IN THE NORTHERNMOST CORNER OF THE PROPOSED LEASED PREMISES HAVING A STATE PLANE COORDINATE, KENTUCKY SINGLE ZONE VALUE OF N: 4145102.527 & E: 5055130.814 ON THE PROPERTY CONVEYED TO RWF LEGACY RANCH, INC. AS RECORDED IN BOOK 204, PAGE 467, PARCEL ID: 06-03; THENCE S53°57'29"E 100.00' TO A "SET IPC"; THENCE S36°02'31"W 100.00' TO A "SET IPC", HAVING A STATE PLANE COORDINATE, KENTUCKY SINGLE ZONE VALUE OF N: 4144962.830, E: 5055152.835; THENCE N53°57'29"W 100.00' TO A "SET IPC"; THENCE N36°02'31"E 100.00' TO **THE POINT OF BEGINNING** CONTAINING 10,000.000 SQUARE FEET AS PER SURVEY BY MARK PATTERSON, PLS #3136 WITH POWER OF DESIGN GROUP, LLC DATED JANUARY 25, 2019.

PROPOSED 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT TO BE GRANTED ON THE PROPERTY CONVEYED TO RWF LEGACY RANCH, INC. AS RECORDED IN THE CLERKS OFFICE OF CARROLL COUNTY, KENTUCKY IN BOOK 204, PAGE 467, PARCEL ID: 06-03, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEARING DATUM USED HEREIN IS BASED UPON KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE, NAD 83, FROM A REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM OBSERVATION USING THE KENTUCKY TRANSPORTATION CABINET REAL TIME GPS NETWORK COMPLETED ON JANUARY 25, 2019.

BEGINNING AT A SET 1/2" REBAR WITH CAP STAMPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC" IN THE NORTHERNMOST CORNER OF THE PROPOSED LEASED PREMISES HAVING A STATE PLANE COORDINATE, KENTUCKY SINGLE ZONE VALUE OF N: 1415102.527 & E: 5055130.814 ON THE PROPERTY CONVEYED TO RWF LEGACY RANCH, INC. AS RECORDED IN BOOK 204, PAGE 467, PARCEL ID: 06-03; THENCE WITH THE WEST LINE OF SAID PROPOSED LEASED PREMISES S36°02'31"W 100.00' TO A "SET IPC"; THENCE WITH THE SOUTH LINE OF SAID PROPOSED LEASED PREMISES S53°57'29"E 50.00'; THENCE LEAVING SAID PROPOSED LEASED PREMISES S36°02'31"W 30.00'; THENCE N53°57'29"W 301.06' TO A POINT IN THE SOUTH RIGHT OF WAY LINE OF FAIRVIEW RIDGE RD / HWY 1492; THENCE ALONG SAID SOUTH RIGHT OF WAY LINE WITH A NON-TANGENTIAL CURVE TO THE LEFT HAVING A RADIUS OF 60.00', N70°57'33"E 70.42'; THENCE CONTINUING WITH SAID SOUTH RIGHT OF WAY LINE N35°01'29"E 9.26'; THENCE LEAVING SAID SOUTH RIGHT OF WAY LINE AND TRAVERSING PROPERTY CONVEYED TO RWF LEGACY RANCH, INC. S13°21'33"E 43.92'; THENCE WITH A CURVE TO THE LEFT HAVING A RADIUS OF 35.00', S33°39'31"E 24.28'; THENCE S53°57'29"E 89.80'; THENCE WITH A CURVE TO THE LEFT HAVING A RADIUS OF 35.00', N81°02'31"E 49.50'; THENCE N36°02'31"E 65.00'; THENCE S53°57'29"E 30.00' TO **THE POINT OF BEGINNING** CONTAINING 12,514.811 SQUARE FEET AS PER SURVEY BY MARK PATTERSON, PLS #3136 WITH POWER OF DESIGN GROUP, LLC DATED JANUARY 25, 2019.

PARENT PARCEL, DEED BOOK 204, PAGE 467 (NOT FIELD SURVEYED) PARCEL ID: 06-03

SITUATED IN THE COUNTY OF CARROLL, STATE OF KENTUCKY:

ONE HUNDRED AND THIRTY-FIVE ACRES OF LAND, BOUNDED ON THE NORTH BY THE LANDS OF BEN DONATHAN, THE HEIRS OF R. S. GROSS, DECEASED, AND L. D. KIPER, ON THE EAST BY THE LANDS OF JAMES THOMPSON AND J. E. YOUNG, ON THE SOUTH BY THE LANDS OF LOUIS CRIBBINS, AND ON THE WEST BY THE LANDS FORMERLY OWNED BY JOHN MORROW.

TAX I.D. NUMBER: 06-03

BEING THE SAME PROPERTY CONVEYED TO RWF LEGACY RANCH, INC., A FLORIDA CORPORATION, GRANTEE, FROM GARY RAY EDWARDS AND VICKIE L. EDWARDS, LINDA CARROLL JOHNSON AND RICHARD JOHNSON, LOIS FAY EDWARDS, VIVIAN K. EBLEY (FORMERLY VIVIAN K. IMEL) AND JUSTIN EBLEY, GRANTOR, BY DEED RECORDED 05/19/2017, AS BOOK 204, PAGE 467 OF THE CARROLL COUNTY RECORDS.

TITLE COMMITMENT

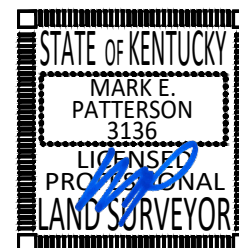
THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY POD GROUP, LLC. AND AS SUCH WE ARE NOT RESPONSIBLE FOR THE INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, UNRECORDED EASEMENTS, AUGMENTING EASEMENTS, IMPLIED OR PRESCRIPTIVE EASEMENTS, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE AND THIS SURVEY WAS COMPLETED WITH THE AID OF TITLE WORK PREPARED BY OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY, FOR THE BENEFIT OF SKYWAY TOWERS, LLC, COMMITMENT NO. 01-18067756-01T, COMMITMENT DATE OF NOVEMBER 6, 2019. THE FOLLOWING COMMENTS ARE IN REGARD TO SAID REPORT.

SCHEDULE B-2, EXCEPTIONS

1. ANY DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM, OR OTHER MATTER THAT APPEARS FOR THE FIRST TIME IN THE PUBLIC RECORDS OR IS CREATED, ATTACHES, OR IS DISCLOSED BETWEEN THE COMMITMENT DATE AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART I—REQUIREMENTS ARE MET. (NOT A SURVEY MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
2. FACTS WHICH WOULD BE DISCLOSED BY A COMPREHENSIVE SURVEY OF THE PREMISES HEREIN DESCRIBED. (POD GROUP, LLC DID NOT PERFORM A BOUNDARY SURVEY OF THE PARENT PARCEL, AND THEREFORE CANNOT EXAMINE OR ADDRESS THIS ITEM.)
3. RIGHTS OR CLAIMS OF PARTIES IN POSSESSION. (NOT A SURVEY MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
4. MECHANICS', CONTRACTORS' OR MATERIAL MEN'S LIENS AND LIEN CLAIMS, IF ANY, WHERE NO NOTICE THEREOF APPEARS OF RECORD. (NOT A SURVEY MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
5. ANY CHANGES IN TITLE OCCURRING SUBSEQUENT TO THE EFFECTIVE DATE OF THIS COMMITMENT AND PRIOR TO THE DATE OF ISSUANCE OF THE TITLE POLICY. (NOT A SURVEY MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
6. DELETING ANY COVENANT, CONDITION OR RESTRICTION INDICATING A PREFERENCE, LIMITATION OR DISCRIMINATION BASED ON RACE, COLOR, RELIGION, SEX, HANDICAP, FAMILIAL STATUS OR NATIONAL ORIGIN TO THE EXTENT SUCH MATTERS VIOLATE 42 USC 3604(C). NOTE: THE POLICY ISSUED HEREUNDER WILL INSURE AGAINST LOSS OR DAMAGE ARISING FROM THE PROVISIONS OF THE REFERENCED COVENANTS, CONDITIONS OR RESTRICTIONS UNDER WHICH THE LIEN OF THE INSURED MORTGAGE CAN BE EXTINGUISHED, SUBORDINATED, OR IMPAIRED. (NOT A SURVEY MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
7. QUANTITY OF ACREAGE/SQUARE FOOTAGE AS SET FORTH IN SCHEDULE A, IF ANY. (POD GROUP, LLC DID NOT PERFORM A BOUNDARY SURVEY OF THE PARENT PARCEL, AND THEREFORE CANNOT EXAMINE OR ADDRESS THIS ITEM.)
8. TAXES AND SPECIAL ASSESSMENTS FOR CURRENT TAX YEAR AND ALL SUBSEQUENT YEARS. (NOT A SURVEY MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
9. RIGHT OF WAY EASEMENTS IN FAVOR OF WEST CARROLL COUNTY WATER DISTRICT, RECORDED 03/27/1992 IN BOOK 117, PAGE 305 OF CARROLL COUNTY RECORDS. (RIGHT OF WAY EASEMENT AS RECORDED IN BOOK 117, PAGE 305 IS VAGUE IN DESCRIPTION, AND COULD NOT BE PLOTTED.)
10. EASEMENT IN FAVOR OF BELLSOUTH TELECOMMUNICATIONS, INC., RECORDED 02/12/2001, AS BOOK 145, PAGE 639 OF THE CARROLL COUNTY RECORDS. (EASEMENT AS RECORDED IN BOOK 145, PAGE 639 IS AN "AS CONSTRUCTED" EASEMENT, DOES AFFECT THE SUBJECT PROPERTY AND THE PROPOSED ACCESS & UTILITY EASEMENT BUT DOES NOT AFFECT THE PROPOSED LEASED PREMISES, AND IS SHOWN HEREON.)
11. RIGHT OF WAY EASEMENT IN FAVOR OF WEST CARROLL COUNTY WATER DISTRICT, RECORDED 08/24/2009 IN BOOK 180, PAGE 211 OF CARROLL COUNTY RECORDS. (RIGHT OF WAY EASEMENT AS RECORDED IN BOOK 180, PAGE 211 IS AN "AS CONSTRUCTED" EASEMENT, DOES AFFECT THE SUBJECT PROPERTY, THE PROPOSED ACCESS & UTILITY EASEMENT AND THE PROPOSED LEASED PREMISES, AND IS SHOWN HEREON.)
12. A MORTGAGE TO SECURE AN INDEBTEDNESS OF THE AMOUNT STATED AND ANY OTHER AMOUNTS PAYABLE UNDER THE TERMS THEREOF: AMOUNT: \$150,000.00 MORTGAGOR: RWF LEGACY RANCH, INC. MORTGAGEE: EPREM EPREMIAN DATED: 11/16/2018 RECORDED 11/16/2018 DOC#/BOOK-PAGE: 247-100 (NOT A SURVEY MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.) NOTE: SUBORDINATION, NON-DISTURBANCE AND ATTORNMENT AGREEMENT, RECORDED 02/07/2019 AS BOOK 248, PAGE 239 OF CARROLL COUNTY RECORDS. (AGREEMENT AS DESCRIBED IN BOOK 248, PAGE 239 AFFECTS THE SUBJECT PROPERTY, THE PROPOSED LEASED PREMISES AND THE PROPOSED ACCESS AND UTILITY EASEMENT.)
13. SUBJECT TO THE TERMS AND CONDITIONS MEMORANDUM OF AGREEMENT BY AND BETWEEN RWF LEGACY RANCH, INC., A FLORIDA CORPORATION (LANDLORD), AND SKYWAY TOWERS, LLC, A DELAWARE LIMITED LIABILITY COMPANY (TENANT), RECORDED 02/07/2019 AS BOOK L6, PAGE 607 OF THE CARROLL COUNTY RECORDS. (MEMORANDUM OF AGREEMENT AS DESCRIBED IN BOOK L6, PAGE 607 AFFECTS THE SUBJECT PROPERTY, THE PROPOSED LEASED PREMISES AND THE PROPOSED ACCESS AND UTILITY EASEMENT.)

LAND SURVEYOR'S CERTIFICATE

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



Mark Patterson 04/20/2020
 MARK PATTERSON, PLS #3136 DATE

PREPARED BY:

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

PREPARED FOR:

 3637 MADACA LANE
 TAMPA, FL 33618
 (813) 960-6200

SURVEY		
REV.	DATE	DESCRIPTION
A	02.12.19	PRELIM ISSUE w/ TITLE
B	12.16.19	UPDATED TITLE REVIEW

SITE INFORMATION:
LOCUST
 1002 FAIRVIEW RIDGE
 MILTON, KY 40045
 CARROLL COUNTY
 TAX PARCEL NUMBER:
 06-03
 PROPERTY OWNERS:
 RWF LEGACY RANCH, INC.
 242 SW 5TH STREET
 POMPANO BEACH, FL 33060
 SOURCE OF TITLE:
 BOOK 204, PAGE 467

SKYWAY SITE NUMBER:
 KY-03072

VERIZON SITE NAME:
 LV LOCUST

POD NUMBER: 18-23435
 DRAWN BY: CPM
 CHECKED BY: MEP
 SURVEY DATE: 01.25.19
 PLAT DATE: 02.12.19

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

SHEET NUMBER: (2 pages)
B-1.1

GENERAL NOTE:

1. ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE CARROLL COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON JANUARY 25, 2019 AND RE-VERIFIED ON MARCH 17, 2020. THE PROPERTY VALUATION ADMINISTRATION RECORDS MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO THE INACCURACIES AND TIME LAPSE IN UPDATING FILES. POD AND THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIMS ANY WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES
2. THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY
3. NOT FOR RECORDING OR PROPERTY TRANSFER.

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

PREPARED BY:

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

PREPARED FOR:

SKYWAY TOWERS
 3637 MADACA LANE
 TAMPA, FL 33618
 (813) 960-6200

EXHIBIT

REV.	DATE	DESCRIPTION
A	03.11.20	PRELIM ISSUE
0	03.18.20	ISSUED AS FINAL

EXHIBIT

REV.	DATE	DESCRIPTION
A	03.11.20	PRELIM ISSUE
0	03.18.20	ISSUED AS FINAL

SITE INFORMATION:
LOCUST
 1002 FAIRVIEW RIDGE
 MILTON, KY 40045
 CARROLL COUNTY
 TAX PARCEL NUMBER:
 06-03
 PROPERTY OWNERS:
 RWF LEGACY RANCH, INC.
 242 SW 5TH STREET
 POMPANO BEACH, FL 33060
 SOURCE OF TITLE:
 BOOK 204, PAGE 467

SKYWAY SITE NUMBER:
 KY-03072

VERIZON SITE NAME:
 LV LOCUST

POD NUMBER: 18-23438
 DRAWN BY: JRS
 CHECKED BY: MEP
 SURVEY DATE: 01.25.19
 PLAT DATE: 03.11.20


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

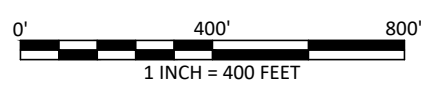
SHEET NUMBER: (1 page)

B-2

- (A1)** PARCEL ID: 06-03
RWF LEGACY RANCH INC
242 SW 5TH STREET
POMPANO BEACH, FL 33060
- (B1)** PARCEL ID: 06-01
DERMON TIMOTHY W
86 BOYKIN LAKES LOOP
PIKE ROAD AL 36064
- (C1)** PARCEL ID: 06-16-02-01 & 06-16-02
BAYLES WILLIAM
532 W PRONG LOCUST RD
MILTON KY 40045
- (D1)** PARCEL ID: 06-14-02
BAYLES WILLIAM
532 W PRONG LOCUST RD
MILTON KY 40045
- (E1)** PARCEL ID: 06-14-01
WENTWORTH MARY
828 W PRONG LOCUST
MILTON, KY 40045
- (F1)** PARCEL ID: 06-12
YOCUM REALTY LLC
107 HWY 42W
CARROLLTON, KY 41008
- (G1)** PARCEL ID: 03-15
JOHNSON ALEXANDER S & GRIMES RACHEL
1312 W PRONG LOCUST
MILTON, KY 40045
- (H1)** PARCEL ID: 03-09-02
MCDOLE GEORGE WILLIAM LEE
1344 FAIRVIEW RIDGE
MILTON, KY 40045
- (I1)** PARCEL ID: 03-09-03
SNELL MARK KEVIN & TINA M
1148 FAIRVIEW RIDGE
MILTON, KY 40045



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

 MARK PATTERSON, PLS #3136 04/20/2020 DATE



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

REVISION LOG

REV *	MM/DD/YY	SHEET NUMBER	DESCRIPTION OF REVISION
A	3/12/2020	ALL SHEETS	ISSUED FOR REVIEW
0	4/20/2020	ALL SHEETS	ISSUED AS FINAL



04/20/2020



EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	3.12.20	ISSUED FOR REVIEW
0	4.20.20	ISSUED AS FINAL

SITE INFORMATION:

LOCUST

1002 FAIRVIEW RIDGE
MILTON, KY 40045
CARROLL COUNTY

SKYWAY SITE NUMBER:
KY-03072

VERIZON WIRELESS SITE NAME:
LV LOCUST

POD NUMBER: 18-23442

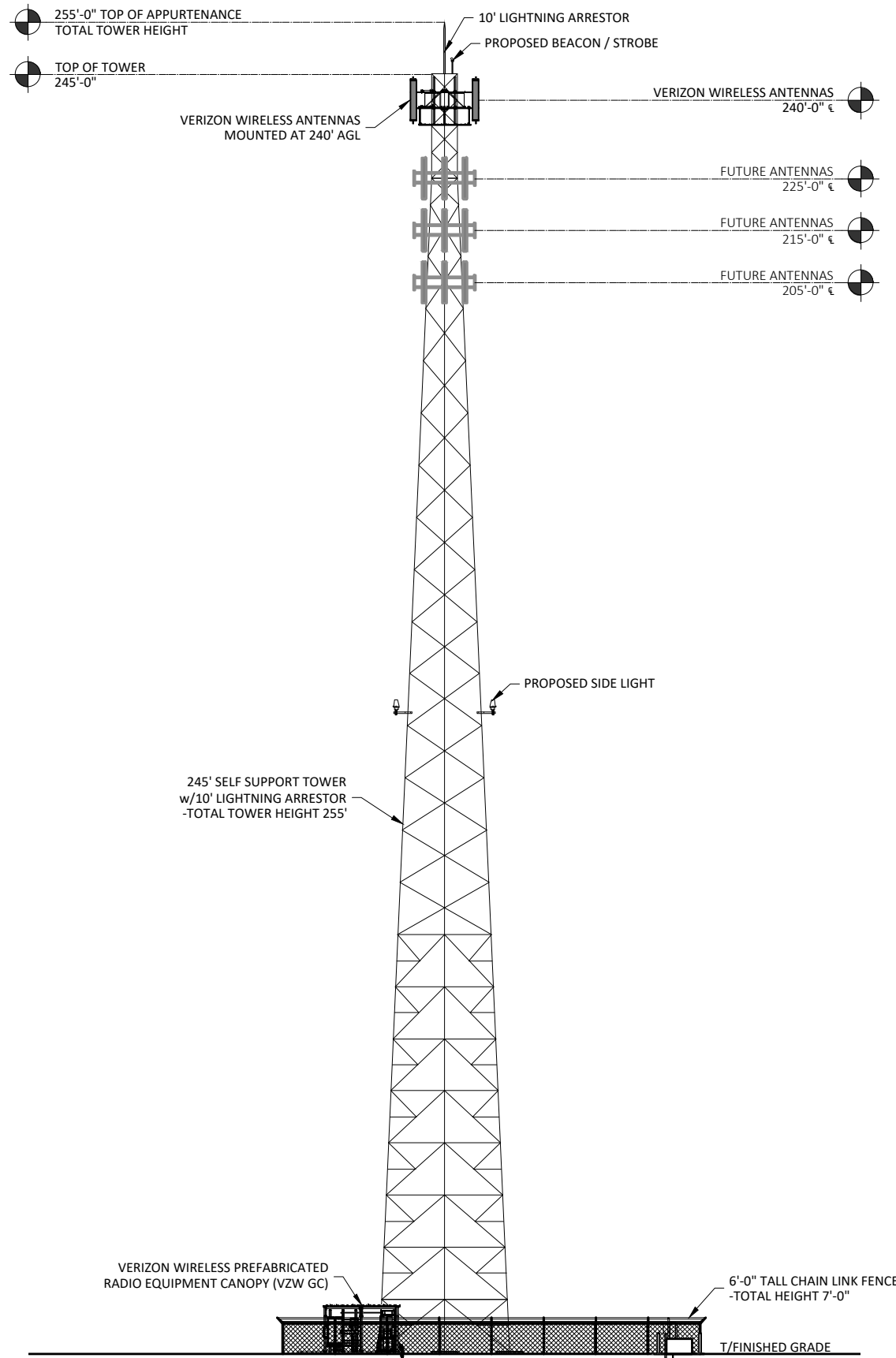
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CHECKED BY: MEP
DATE: 03.10.20

SHEET TITLE:

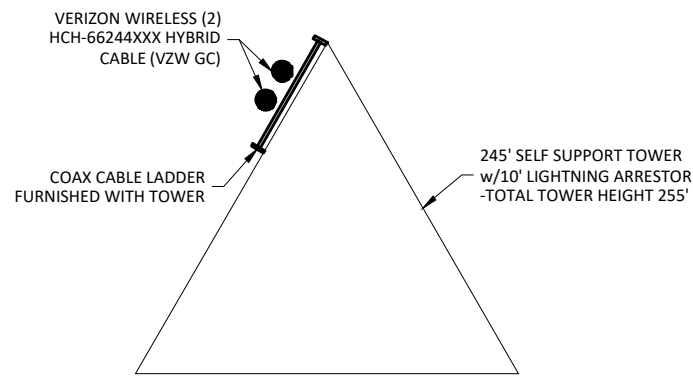
REVISION LOG

SHEET NUMBER:

R-1



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



COAX PLAN
SCALE: N.T.S.



NOTE:

1. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL ANTENNA INFORMATION AGAINST FINAL RADIO ENGINEERING PLAN PROVIDED BY CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS (VZW GC)
2. ALL TOWER LIGHTING SHALL BE INSTALLED AS REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION AND RECOMMENDED BY THE USFWS INTERIM GUIDELINES (2000) FOR LIGHTING OF TOWERS OVER 200' IN HEIGHT.
3. FAA FORM 7460-2, PART 2, NOTICE OF ACTUAL CONSTRUCTION OR ALTERATION, IS REQUIRED TO BE E-FILED ANY TIME THE PROJECT IS ABANDONED OR WITHIN 5 DAYS AFTER CONSTRUCTION REACHES ITS GREATEST HEIGHT.



04/20/2020



EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	3.12.20	ISSUED FOR REVIEW
0	4.20.20	ISSUED AS FINAL

SITE INFORMATION:

LOCUST

1002 FAIRVIEW RIDGE
MILTON, KY 40045
CARROLL COUNTY

SKYWAY SITE NUMBER:

KY-03072

VERIZON WIRELESS SITE NAME:

LV LOCUST

POD NUMBER: 18-23442

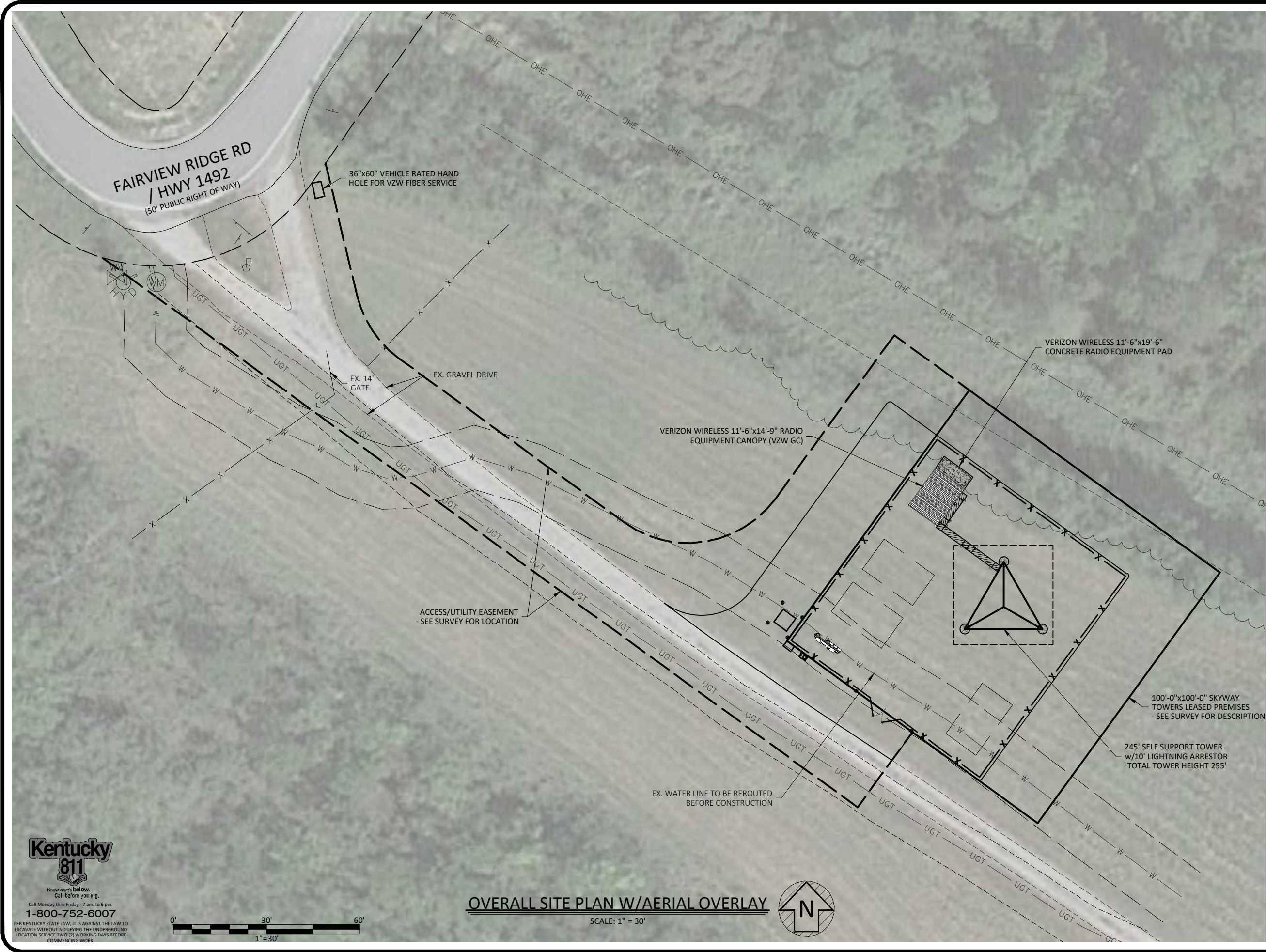
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CHECKED BY: MEP
DATE: 03.10.20

SHEET TITLE:

TOWER ELEVATION

SHEET NUMBER:

TE-1



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

SKYWAY TOWERS
 3637 MADACA LANE
 TAMPA, FL 33618
 (813) 960-6200

04/20/2020

EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	3.12.20	ISSUED FOR REVIEW
0	4.20.20	ISSUED AS FINAL

SITE INFORMATION:
LOCUST
 1002 FAIRVIEW RIDGE
 MILTON, KY 40045
 CARROLL COUNTY

SKYWAY SITE NUMBER:
 KY-03072

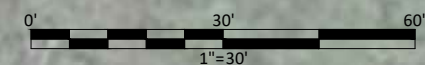
VERIZON WIRELESS SITE NAME:
 LV LOCUST

POD NUMBER: 18-23442
DRAWN BY: POD
CHECKED BY: MEP
DATE: 03.10.20

SHEET TITLE:
OVERALL SITE PLAN W/AERIAL OVERLAY

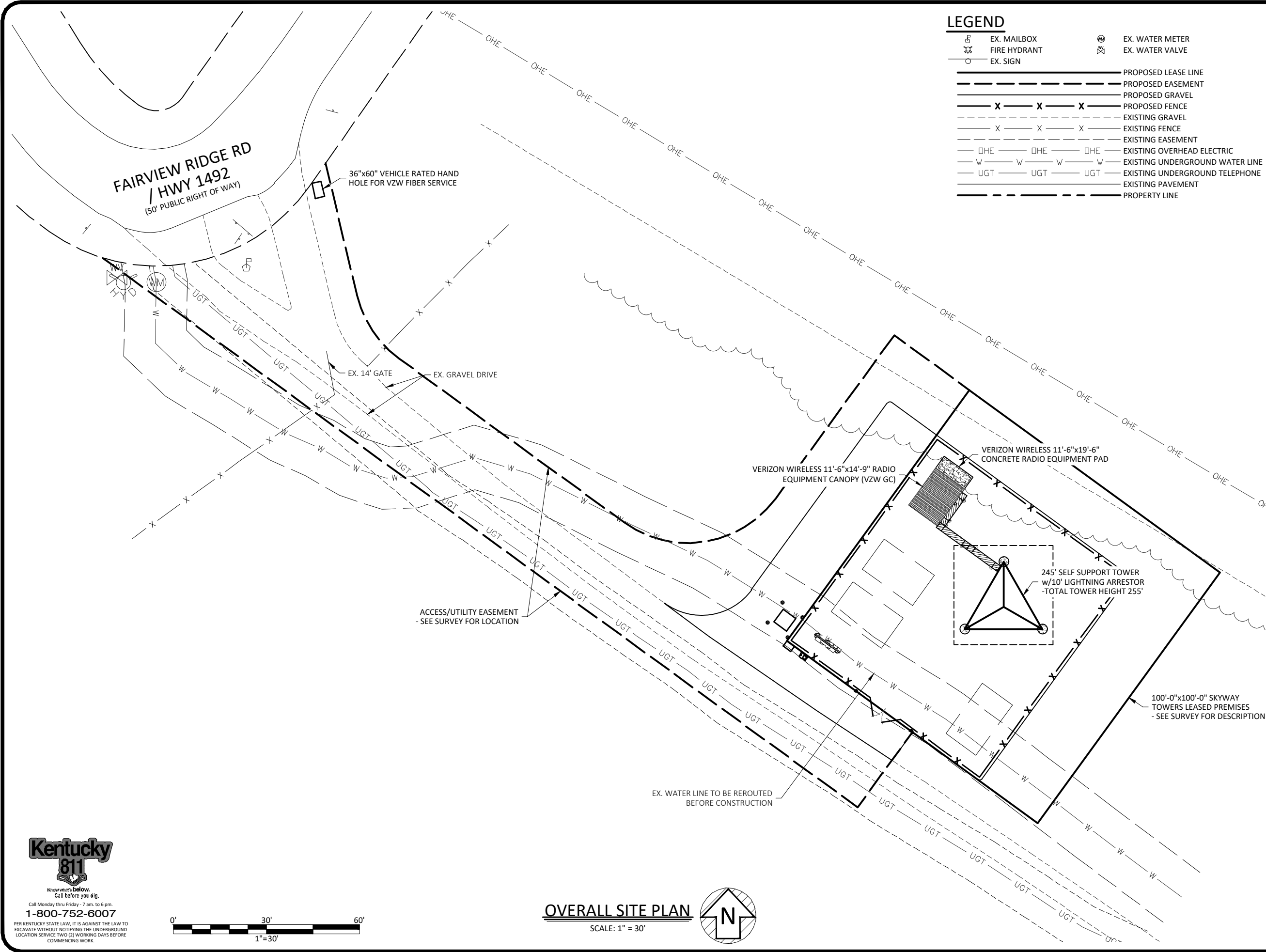
SHEET NUMBER:
C-1

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



OVERALL SITE PLAN W/AERIAL OVERLAY
 SCALE: 1" = 30'





LEGEND

	EX. MAILBOX		EX. WATER METER
	FIRE HYDRANT		EX. WATER VALVE
	EX. SIGN		
	PROPOSED LEASE LINE		
	PROPOSED EASEMENT		
	PROPOSED GRAVEL		
	PROPOSED FENCE		
	EXISTING GRAVEL		
	EXISTING FENCE		
	EXISTING EASEMENT		
	EXISTING OVERHEAD ELECTRIC		
	EXISTING UNDERGROUND WATER LINE		
	EXISTING UNDERGROUND TELEPHONE		
	EXISTING PAVEMENT		
	PROPERTY LINE		

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

SKYWAY TOWERS
3637 MADACA LANE
TAMPA, FL 33618
(813) 960-6200

04/20/2020

STATE OF KENTUCKY
MARK E. PATTERSON
16,300
LICENSED PROFESSIONAL ENGINEER

EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	3.12.20	ISSUED FOR REVIEW
0	4.20.20	ISSUED AS FINAL

SITE INFORMATION:
LOCUST
1002 FAIRVIEW RIDGE
MILTON, KY 40045
CARROLL COUNTY

SKYWAY SITE NUMBER:
KY-03072

VERIZON WIRELESS SITE NAME:
LV LOCUST

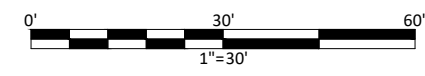
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DRAWN BY: POD
CHECKED BY: MEP
DATE: 03.10.20

SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
C-1A

Kentucky 811
Know what's below.
Call before you dig.
Call Monday thru Friday - 7 am. to 6 pm.
1-800-752-6007

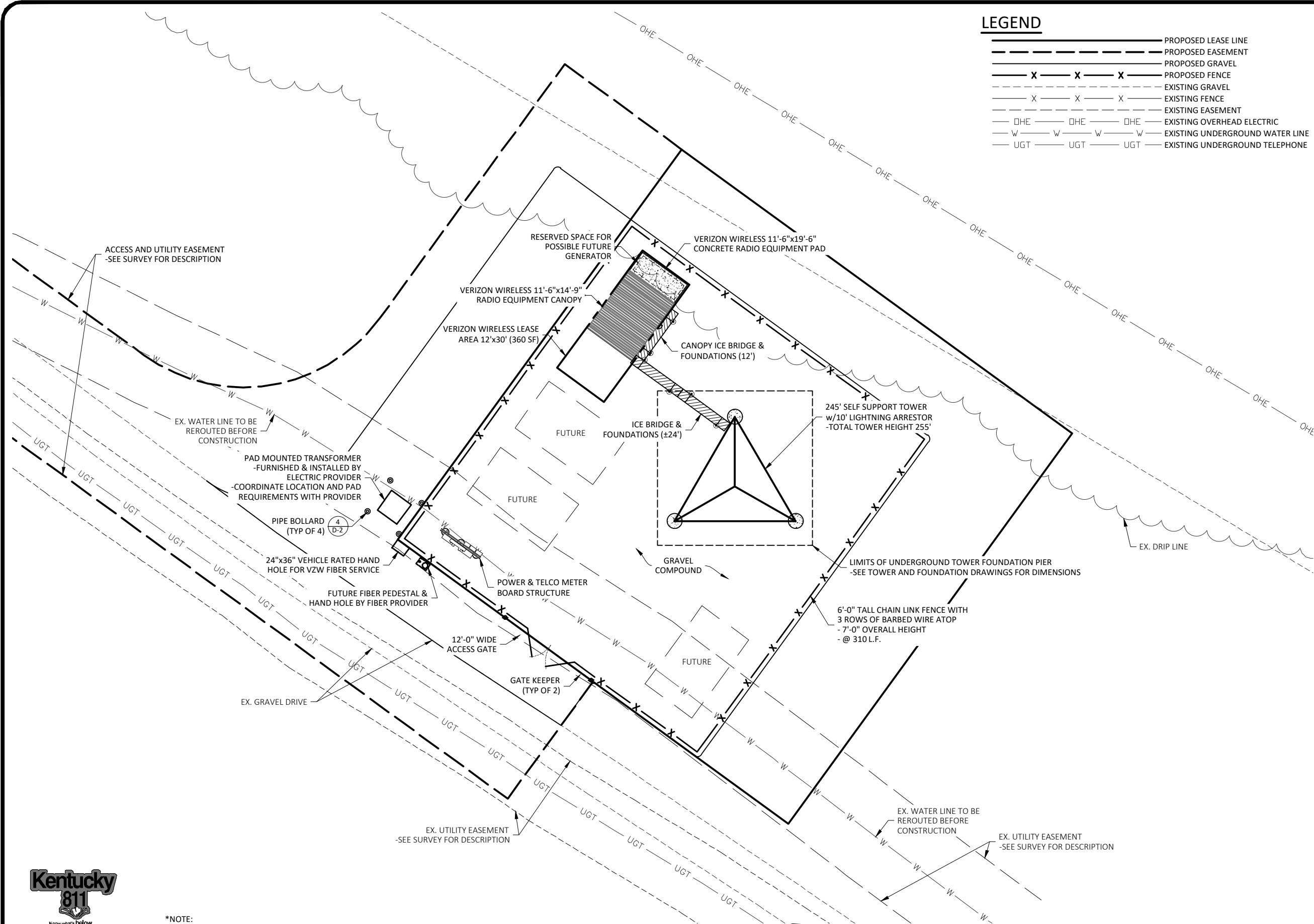
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



OVERALL SITE PLAN
SCALE: 1" = 30'

LEGEND

	PROPOSED LEASE LINE
	PROPOSED EASEMENT
	PROPOSED GRAVEL
	PROPOSED FENCE
	EXISTING GRAVEL
	EXISTING FENCE
	EXISTING EASEMENT
	EXISTING OVERHEAD ELECTRIC
	EXISTING UNDERGROUND WATER LINE
	EXISTING UNDERGROUND TELEPHONE



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

SKYWAY TOWERS
3637 MADACA LANE
TAMPA, FL 33618
(813) 960-6200

04/20/2020
STATE OF KENTUCKY
MARK E. PATTERSON
16,300
LICENSED PROFESSIONAL ENGINEER
EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	3.12.20	ISSUED FOR REVIEW
0	4.20.20	ISSUED AS FINAL

SITE INFORMATION:
LOCUST
1002 FAIRVIEW RIDGE
MILTON, KY 40045
CARROLL COUNTY

SKYWAY SITE NUMBER:
KY-03072

VERIZON WIRELESS SITE NAME:
LV LOCUST

POD NUMBER: 18-23442

DRAWN BY: POD
CHECKED BY: MEP
DATE: 03.10.20

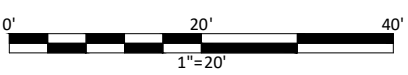
SHEET TITLE:

DETAILED SITE PLAN

SHEET NUMBER:
C-3

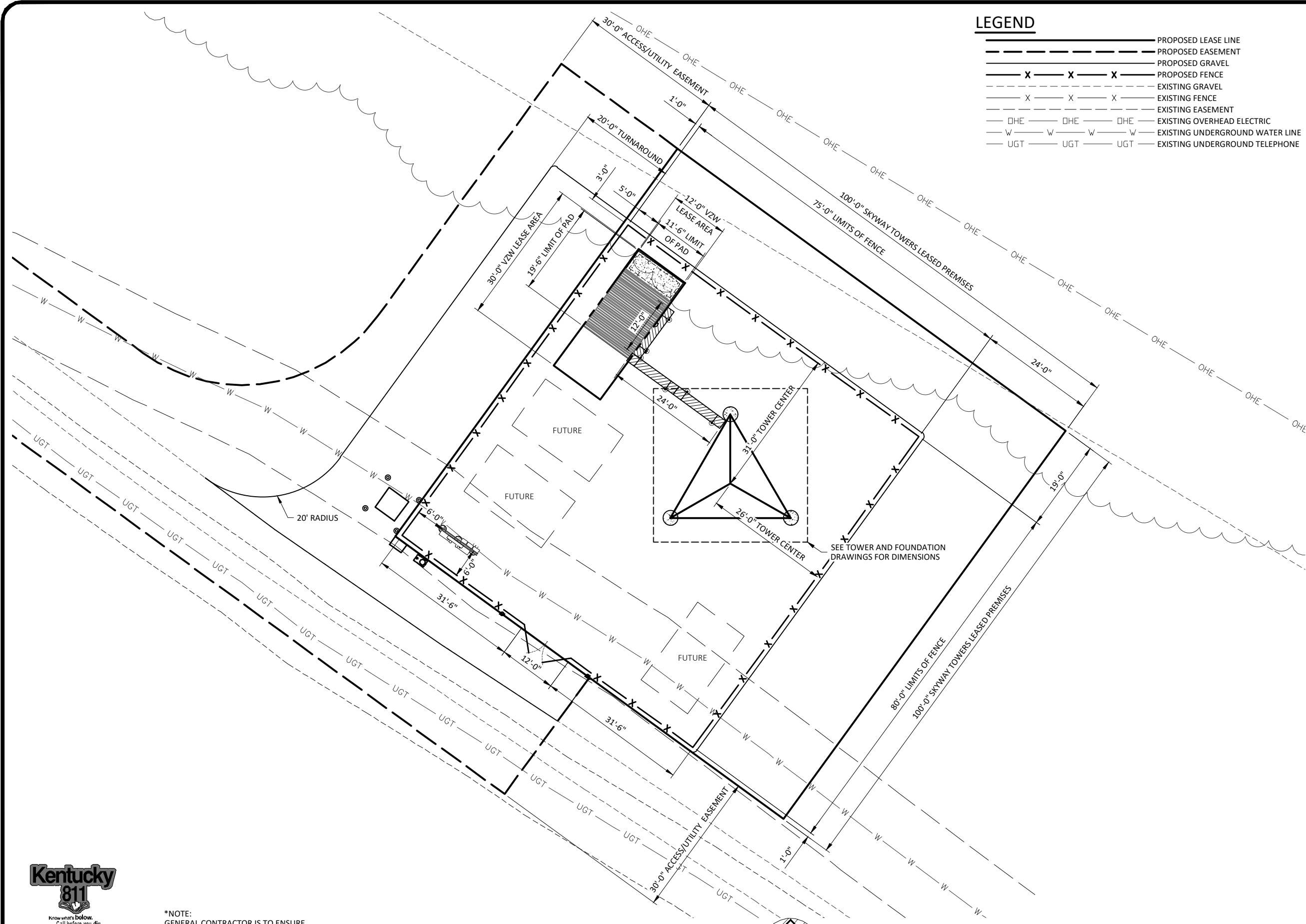
Kentucky 811
Know what's below.
Call before you dig.
Call Monday thru Friday - 7 am. to 6 pm.
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

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



DETAILED SITE PLAN
SCALE: 1" = 20'





LEGEND

	PROPOSED LEASE LINE
	PROPOSED EASEMENT
	PROPOSED FENCE
	EXISTING GRAVEL
	EXISTING FENCE
	EXISTING EASEMENT
	EXISTING OVERHEAD ELECTRIC
	EXISTING UNDERGROUND WATER LINE
	EXISTING UNDERGROUND TELEPHONE

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

3637 MADACA LANE
TAMPA, FL 33618
(813) 960-6200

04/20/2020

EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	3.12.20	ISSUED FOR REVIEW
0	4.20.20	ISSUED AS FINAL

SITE INFORMATION:
LOCUST
1002 FAIRVIEW RIDGE
MILTON, KY 40045
CARROLL COUNTY

SKYWAY SITE NUMBER:
KY-03072

VERIZON WIRELESS SITE NAME:
LV LOCUST

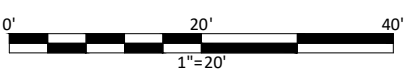
POD NUMBER: 18-23442
DRAWN BY: POD
CHECKED BY: MEP
DATE: 03.10.20

SHEET TITLE:
DIMENSIONED SITE PLAN

SHEET NUMBER:
C-4

Know what's below.
Call before you dig.
Call Monday thru Friday - 7 am. to 6 pm.
1-800-752-6007

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



DIMENSIONED SITE PLAN
SCALE: 1" = 20'

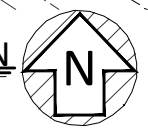


EXHIBIT C
TOWER AND FOUNDATION DESIGN



April 22, 2020

RE: KY-03073 Locust

Dear Commissioners,

My name is **Jay Cantu**, and I am the Construction Manager for the proposed tower referenced within this application. I have been involved in the construction of wireless communications facilities for **20** years including the last 5 years as a **Construction Manager** with **Skyway Towers, LLC**. Prior to that, I held various positions at **Westower Communications in Houston, TX**.

I can be reached at **813-960-6200** to discuss this site further.

Sincerely,

Jay Cantu

Jay Cantu
Construction Manager
713-416-1545 Mobile
jcnatu@skywaytowers.com

DALEY JOB NO. 56939
245' SELF SUPPORTING TOWER
SKYWAY TOWERS
LOCUST SITE
CARROLL COUNTY, KENTUCKY
LATITUDE: 38.705739 N
LONGITUDE: 85.280833 W

TOWER AND FOUNDATION DESIGN
ZONING PACKAGE, REV 1

CASE JOB NO. 20183

PREPARED FOR:

Daley Tower Service, Inc.
601 Hector Connolly Road
Carencro, Louisiana 70520

PREPARED BY:

Civil **A**nd **S**tructural **E**ngineers, Incorporated

P.O. Box 4825
Lafayette, LA 70502

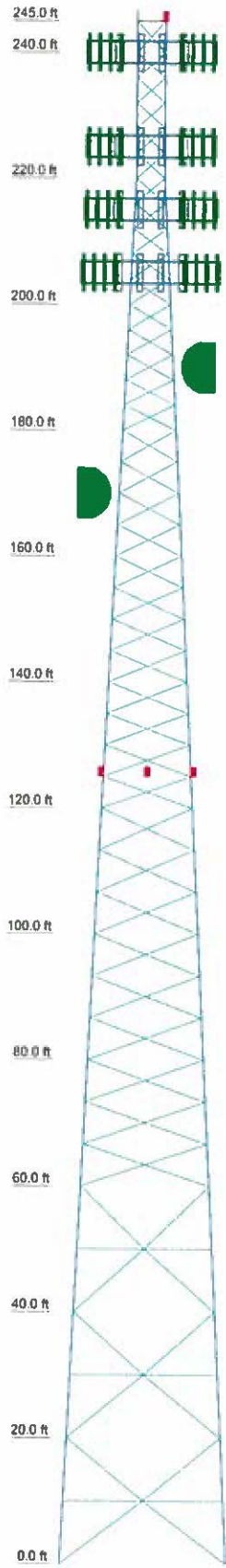
www.casengr.com



4-22-20

TOWER CALCULATIONS

Legs	SR 4 1/2	SR 4 1/4	SR 4 1/2	SR 4 1/4	SR 4 1/2	SR 3 3/4	SR 3 1/2	SR 3 1/4	SR 3 1/2	SR 2 3/4	SR 2 1/2	SR 2	A
Leg Grade						A529-50							
Diagonals	L4x4x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L3x3x1/4	L3 1/2x3 1/2x1/4	L3x3x3/16	L2 1/2x2 1/2x3/16	L3x3x3/16	L2 1/2x2 1/2x3/16	L2x2x3/16	L2x2x1/8		B
Diagonal Grade						A529-50							B
Top Girts						N.A.							
Horizontals	L4x4x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L3x3x3/16	L3 1/2x3 1/2x1/4	L3x3x3/16	L2 1/2x2 1/2x3/16	L3x3x3/16	L2 1/2x2 1/2x3/16	L2x2x3/16	L2x2x1/8		
Red Horizontals													
Red Diagonals													
Inner Bracing	L2x2x1/8												
Face Width (ft)	26.5	24.5	22.5	20.5	18.5	16.5	14.5	12.5	10.5	8.5	6.5	15 @ 4	4.5
# Panels @ (ft)	6 @ 10	9 @ 6.66667	5 @ 5.33333	4 @ 4.44444	3 @ 3.33333	2 @ 2.44444	2 @ 1.5	2 @ 1.5	2 @ 1.5	2 @ 1.5	2 @ 1.5	2 @ 1.5	2 @ 1.5
Weight (lb)	47645.0	5483.1	5624.5	5329.8	4444.2	3064.4	3100.7	2704.4	2019.9	1414.2	933.0	200.1	1 @ 5



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Lightning Rod	245	Sector 41.67 sqft - 1,334 lbs	215
L-864 Beacon	245	Sector 35 sqft - 1,334 lbs	205
Sector 66.7 sqft - 1,334 lbs	240	Sector 35 sqft - 1,334 lbs	205
Sector 66.7 sqft - 1,334 lbs	240	Sector 35 sqft - 1,334 lbs	205
Sector 50 sqft - 1,334 lbs	225	8' HP Dish (60 sq ft, 1000 lbs)	190
Sector 50 sqft - 1,334 lbs	225	8' HP Dish (60 sq ft, 1000 lbs)	170
Sector 50 sqft - 1,334 lbs	225	L-810 Side Light	125
Sector 50 sqft - 1,334 lbs	225	L-810 Side Light	125
Sector 41.67 sqft - 1,334 lbs	215	L-810 Side Light	125
Sector 41.67 sqft - 1,334 lbs	215	L-810 Side Light	125

SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	SR 1 3/4	B	L1 3/4x1 3/4x1/8

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A529-50	50 ksi	65 ksi			

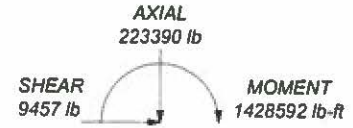
TOWER DESIGN NOTES

1. Tower is located in Carroll County, Kentucky.
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 115 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 30 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. Connections use galvanized A325 bolts, nuts and locking devices. Installation per TIA/EIA-222 and AISC Specifications.
9. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
10. TOWER RATING: 99.3%

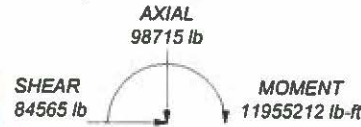
ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:
DOWN: 553821 lb
SHEAR: 54267 lb

UPLIFT: -473268 lb
SHEAR: 46475 lb



TORQUE 4170 lb-ft
30 mph WIND - 0.7500 in ICE



TORQUE 39247 lb-ft
REACTIONS - 115 mph WIND



This design may not be used without the written consent of CASE, Inc.

CASE, Inc. P.O. Box 4825 Lafayette, LA 70501 Phone: 337-232-3336 FAX: mgranberry@casenqr.com	Job: 56939 Final Design Rev 0
	Project: 245' SST Locust Site, KY
	Client: Skyway Towers Code: TIA-222-G Path:
	Drawn by: MJG Date: 04/07/20 Scale: N App'd: App'd: Dwg No.:

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	Client	Skyway Towers	Designed by	MJG

Tower Input Data

The main tower is a 3x free standing tower with an overall height of 245.00 ft above the ground line.

The base of the tower is set at an elevation of 0.00 ft above the ground line.

The face width of the tower is 4.50 ft at the top and 26.50 ft at the base.

This tower is designed using the TIA-222-G standard.

The following design criteria apply:

Tower is located in Carroll County, Kentucky.

ASCE 7-10 Wind Data is used.

Basic wind speed of 115 mph.

Risk Category II.

Exposure Category C.

Topographic Category I.

Crest Height 0.00 ft.

Nominal ice thickness of 0.7500 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 30 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

Connections use galvanized A325 bolts, nuts and locking devices. Installation per TIA/EIA-222 and AISC Specifications..

Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards..

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

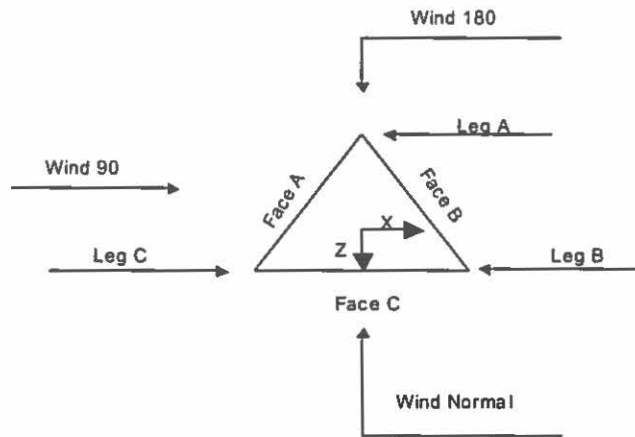
Stress ratio used in tower member design is 1.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

- | | | |
|--|--|---|
| <ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification √ Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile √ Include Bolts In Member Capacity Leg Bolts Are At Top Of Section √ Secondary Horizontal Braces Leg √ Use Diamond Inner Bracing (4 Sided) √ SR Members Have Cut Ends SR Members Are Concentric | <ul style="list-style-type: none"> Distribute Leg Loads As Uniform Assume Legs Pinned Assume Rigid Index Plate √ Use Clear Spans For Wind Area √ Use Clear Spans For KL/r √ Retension Guys To Initial Tension Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurt. √ Autocalc Torque Arm Areas Add IBC .6D+W Combination Sort Capacity Reports By Component √ Triangulate Diamond Inner Bracing √ Treat Feed Line Bundles As Cylinder | <ul style="list-style-type: none"> Use ASCE 10 X-Brace Ly Rules √ Calculate Redundant Bracing Forces Ignore Redundant Members in FEA √ SR Leg Bolts Resist Compression √ All Leg Panels Have Same Allowable Offset Girt At Foundation √ Consider Feed Line Torque √ Include Angle Block Shear Check Use TIA-222-G Bracing Resist. Exemption Use TIA-222-G Tension Splice Exemption Poles Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known |
|--|--|---|

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Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	<i>ft</i>			<i>ft</i>		<i>ft</i>
T1	245.00-240.00			4.50	1	5.00
T2	240.00-220.00			4.50	1	20.00
T3	220.00-200.00			4.50	1	20.00
T4	200.00-180.00			6.50	1	20.00
T5	180.00-160.00			8.50	1	20.00
T6	160.00-140.00			10.50	1	20.00
T7	140.00-120.00			12.50	1	20.00
T8	120.00-100.00			14.50	1	20.00
T9	100.00-80.00			16.50	1	20.00
T10	80.00-60.00			18.50	1	20.00
T11	60.00-40.00			20.50	1	20.00
T12	40.00-20.00			22.50	1	20.00
T13	20.00-0.00			24.50	1	20.00

Tower Section Geometry (cont'd)

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	<i>ft</i>	<i>ft</i>				<i>in</i>	<i>in</i>
T1	245.00-240.00	5.00	X Brace	No	No	0.0000	0.0000
T2	240.00-220.00	4.00	X Brace	No	No	0.0000	0.0000

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Tower Section	Tower Elevation ft	Diagonal Spacing ft	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset in	Bottom Girt Offset in
T3	220.00-200.00	4.00	X Brace	No	No	0.0000	0.0000
T4	200.00-180.00	4.00	X Brace	No	No	0.0000	0.0000
T5	180.00-160.00	5.00	X Brace	No	No	0.0000	0.0000
T6	160.00-140.00	5.00	X Brace	No	No	0.0000	0.0000
T7	140.00-120.00	5.00	X Brace	No	No	0.0000	0.0000
T8	120.00-100.00	6.67	X Brace	No	No	0.0000	0.0000
T9	100.00-80.00	6.67	X Brace	No	No	0.0000	0.0000
T10	80.00-60.00	6.67	X Brace	No	No	0.0000	0.0000
T11	60.00-40.00	10.00	Double K1	No	Yes	0.0000	0.0000
T12	40.00-20.00	10.00	Double K1	No	Yes	0.0000	0.0000
T13	20.00-0.00	10.00	Double K1	No	Yes	0.0000	0.0000

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 245.00-240.00	Solid Round	1 3/4	A529-50 (50 ksi)	Equal Angle	L1 3/4x1 3/4x1/8	A529-50 (50 ksi)
T2 240.00-220.00	Solid Round	2	A529-50 (50 ksi)	Equal Angle	L2x2x1/8	A529-50 (50 ksi)
T3 220.00-200.00	Solid Round	2 1/2	A529-50 (50 ksi)	Equal Angle	L2x2x1/8	A529-50 (50 ksi)
T4 200.00-180.00	Solid Round	2 3/4	A529-50 (50 ksi)	Equal Angle	L2x2x3/16	A529-50 (50 ksi)
T5 180.00-160.00	Solid Round	3 1/4	A529-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A529-50 (50 ksi)
T6 160.00-140.00	Solid Round	3 1/2	A529-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A529-50 (50 ksi)
T7 140.00-120.00	Solid Round	3 3/4	A529-50 (50 ksi)	Equal Angle	L3x3x3/16	A529-50 (50 ksi)
T8 120.00-100.00	Solid Round	4	A529-50 (50 ksi)	Equal Angle	L3x3x1/4	A529-50 (50 ksi)
T9 100.00-80.00	Solid Round	4 1/4	A529-50 (50 ksi)	Equal Angle	L3 1/2x3 1/2x1/4	A529-50 (50 ksi)
T10 80.00-60.00	Solid Round	4 1/2	A529-50 (50 ksi)	Equal Angle	L3 1/2x3 1/2x1/4	A529-50 (50 ksi)
T11 60.00-40.00	Solid Round	4 1/4	A529-50 (50 ksi)	Equal Angle	L4x4x1/4	A529-50 (50 ksi)
T12 40.00-20.00	Solid Round	4 1/4	A529-50 (50 ksi)	Equal Angle	L4x4x1/4	A529-50 (50 ksi)
T13 20.00-0.00	Solid Round	4 1/2	A529-50 (50 ksi)	Equal Angle	L4x4x1/4	A529-50 (50 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 245.00-240.00	Equal Angle	L1 3/4x1 3/4x1/8	A529-50 (50 ksi)	Solid Round		A529-50 (50 ksi)

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Tower Section Geometry (cont'd)

Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
T11 60.00-40.00	None	Solid Round		A36 (36 ksi)	Equal Angle	L3 1/2x3 1/2x1/4	A529-50 (50 ksi)
T12 40.00-20.00	None	Solid Round		A36 (36 ksi)	Equal Angle	L3 1/2x3 1/2x1/4	A529-50 (50 ksi)
T13 20.00-0.00	None	Solid Round		A36 (36 ksi)	Equal Angle	L4x4x1/4	A529-50 (50 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
T11 60.00-40.00	Solid Round		A36 (36 ksi)	Equal Angle	L2x2x1/8	A529-50 (50 ksi)
T12 40.00-20.00	Solid Round		A36 (36 ksi)	Equal Angle	L2x2x1/8	A529-50 (50 ksi)
T13 20.00-0.00	Solid Round		A36 (36 ksi)	Equal Angle	L2x2x1/8	A529-50 (50 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Redundant Bracing Grade	Redundant Type	Redundant Size	K Factor
T11 60.00-40.00	A529-50 (50 ksi)	Horizontal (1) Diagonal (1)	Equal Angle L2 1/2x2 1/2x3/16	1
T12 40.00-20.00	A529-50 (50 ksi)	Horizontal (1) Diagonal (1)	Equal Angle L2 1/2x2 1/2x3/16	1
T13 20.00-0.00	A529-50 (50 ksi)	Horizontal (1) Diagonal (1)	Equal Angle L3x3x3/16	1

Tower Section Geometry (cont'd)

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A ₁	Adjust. Factor A _r	Weight Multi.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
T1	0.00	0.0000	A36	1	1	1.1	36.0000	36.0000	36.0000

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Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	Legs	K Factors ¹							
				X Brace Diags X Y	K Brace Diags X Y	Single Diags X Y	Girts X Y	Horiz. X Y	Sec. Horiz. X Y	Inner Brace X Y	
				60.00-40.00 T12	Yes	Yes	1				
40.00-20.00 T13	Yes	Yes	1								
20.00-0.00											

¹Note: K factors are applied to member segment lengths. K-braces without inner supporting members will have the K factor in the out-of-plane direction applied to the overall length.

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
245.00-240.00 T2	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
240.00-220.00 T3	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
220.00-200.00 T4	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
200.00-180.00 T5	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
180.00-160.00 T6	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
160.00-140.00 T7	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
140.00-120.00 T8	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
120.00-100.00 T9	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
100.00-80.00 T10	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
80.00-60.00 T11	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
60.00-40.00 T12	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
40.00-20.00 T13	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
20.00-0.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75

Tower Section Geometry (cont'd)

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Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 245.00-240.00	Flange	0.7500	4	0.5000	1	0.6250	0	0.6250	0	0.6250	0	0.5000	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T2 240.00-220.00	Flange	0.7500	4	0.5000	1	0.6250	0	0.6250	0	0.6250	0	0.5000	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T3 220.00-200.00	Flange	0.7500	4	0.5000	1	0.6250	0	0.6250	0	0.6250	0	0.5000	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T4 200.00-180.00	Flange	1.0000	4	0.5000	1	0.6250	0	0.6250	0	0.6250	0	0.5000	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T5 180.00-160.00	Flange	1.0000	4	0.6250	1	0.6250	0	0.6250	0	0.6250	0	0.5000	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T6 160.00-140.00	Flange	1.0000	6	0.6250	1	0.6250	0	0.6250	0	0.6250	0	0.5000	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T7 140.00-120.00	Flange	1.0000	6	0.6250	1	0.6250	0	0.6250	0	0.6250	0	0.5000	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T8 120.00-100.00	Flange	1.0000	6	0.6250	1	0.6250	0	0.6250	0	0.6250	0	0.5000	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T9 100.00-80.00	Flange	1.1250	6	0.6250	1	0.6250	0	0.6250	0	0.6250	0	0.5000	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T10 80.00-60.00	Flange	1.1250	6	0.6250	1	0.6250	0	0.6250	0	0.6250	0	0.5000	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T11 60.00-40.00	Flange	1.1250	6	0.7500	1	0.6250	0	0.6250	0	0.6250	0	0.7500	1	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T12 40.00-20.00	Flange	1.2500	6	0.7500	1	0.6250	0	0.6250	0	0.6250	0	0.7500	1	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T13 20.00-0.00	Flange	1.5000	6	0.7500	1	0.6250	0	0.6250	0	0.6250	0	0.7500	1	0.6250	0
		F1554-105		A325N		A325N		A325N		A325N		A325N		A325N	

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf

LDF7-50A (1-5/8 FOAM)	A	No	Ar (CaAa)	240.00 - 10.00	0.0000	-0.15	12	6	0.5000	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	B	No	Ar (CaAa)	225.00 - 10.00	0.0000	0	12	6	0.5000	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	C	No	Ar (CaAa)	215.00 - 10.00	0.0000	-0.15	12	6	0.5000	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	C	No	Ar (CaAa)	205.00 - 10.00	0.0000	0.15	12	6	0.5000	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	A	No	Ar (CaAa)	170.00 - 10.00	0.0000	0.15	4	4	0.5000	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	A	No	Ar (CaAa)	190.00 - 170.00	0.0000	0.15	2	2	0.5000	1.9800		0.82

Feed Line/Linear Appurtenances - Entered As Area

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Description	Face or Leg	Allow Shield	Component Type	Placement ft	Total Number	C _M A _A		Weight plf
						In Face	Out Face	
Climbing Ladder	B	No	CaAa (In Face)	245.00 - 10.00	1	No Ice	0.29	7.90
						1/2" Ice	0.55	10.60
						1" Ice	0.81	13.30
Safety Line 5/16	B	No	CaAa (In Face)	245.00 - 10.00	1	No Ice	0.03	0.26
						1/2" Ice	0.13	0.76
						1" Ice	0.23	1.26
1 1/4" Rigid Conduit	B	No	CaAa (In Face)	245.00 - 10.00	1	No Ice	0.15	0.70
						1/2" Ice	0.25	1.77
						1" Ice	0.35	3.45
1/2" Ground	B	No	CaAa (In Face)	245.00 - 0.00	1	No Ice	0.05	0.50
						1/2" Ice	0.15	1.11
						1" Ice	0.25	2.33
Feedline Ladder (Af)	A	No	CaAa (In Face)	240.00 - 10.00	1	No Ice	0.50	8.40
						1/2" Ice	0.61	13.50
						1" Ice	0.72	18.60
Feedline Ladder (Af)	B	No	CaAa (In Face)	225.00 - 10.00	1	No Ice	0.50	8.40
						1/2" Ice	0.61	13.50
						1" Ice	0.72	18.60
Feedline Ladder (Af)	C	No	CaAa (In Face)	215.00 - 10.00	1	No Ice	0.50	8.40
						1/2" Ice	0.61	13.50
						1" Ice	0.72	18.60

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _M A _A In Face ft ²	C _M A _A Out Face ft ²	Weight lb
T1	245.00-240.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	2.607	0.000	46.80
		C	0.000	0.000	0.000	0.000	0.00
T2	240.00-220.00	A	0.000	0.000	57.520	0.000	364.80
		B	0.000	0.000	24.806	0.000	278.40
		C	0.000	0.000	0.000	0.000	0.00
T3	220.00-200.00	A	0.000	0.000	57.520	0.000	364.80
		B	0.000	0.000	67.946	0.000	552.00
		C	0.000	0.000	55.020	0.000	322.80
T4	200.00-180.00	A	0.000	0.000	61.480	0.000	381.20
		B	0.000	0.000	67.946	0.000	552.00
		C	0.000	0.000	105.040	0.000	561.60
T5	180.00-160.00	A	0.000	0.000	69.400	0.000	414.00
		B	0.000	0.000	67.946	0.000	552.00
		C	0.000	0.000	105.040	0.000	561.60
T6	160.00-140.00	A	0.000	0.000	73.360	0.000	430.40
		B	0.000	0.000	67.946	0.000	552.00
		C	0.000	0.000	105.040	0.000	561.60
T7	140.00-120.00	A	0.000	0.000	73.360	0.000	430.40
		B	0.000	0.000	67.946	0.000	552.00
		C	0.000	0.000	105.040	0.000	561.60
T8	120.00-100.00	A	0.000	0.000	73.360	0.000	430.40
		B	0.000	0.000	67.946	0.000	552.00
		C	0.000	0.000	105.040	0.000	561.60
T9	100.00-80.00	A	0.000	0.000	73.360	0.000	430.40
		B	0.000	0.000	67.946	0.000	552.00
		C	0.000	0.000	105.040	0.000	561.60
T10	80.00-60.00	A	0.000	0.000	73.360	0.000	430.40
		B	0.000	0.000	67.946	0.000	552.00
		C	0.000	0.000	105.040	0.000	561.60
T11	60.00-40.00	A	0.000	0.000	73.360	0.000	430.40

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Tower Section	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight lb
T12	40.00-20.00	B	0.000	0.000	67.946	0.000	552.00
		C	0.000	0.000	105.040	0.000	561.60
		A	0.000	0.000	73.360	0.000	430.40
T13	20.00-0.00	B	0.000	0.000	67.946	0.000	552.00
		C	0.000	0.000	105.040	0.000	561.60
		A	0.000	0.000	36.680	0.000	215.20
		B	0.000	0.000	34.473	0.000	281.00
		C	0.000	0.000	52.520	0.000	280.80

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight lb
T1	245.00-240.00	A	1.831	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	12.861	0.000	167.65
		C		0.000	0.000	0.000	0.000	0.00
T2	240.00-220.00	A	1.821	0.000	0.000	67.497	0.000	1532.06
		B		0.000	0.000	68.100	0.000	1050.54
		C		0.000	0.000	0.000	0.000	0.00
T3	220.00-200.00	A	1.805	0.000	0.000	67.314	0.000	1522.62
		B		0.000	0.000	118.171	0.000	2184.91
		C		0.000	0.000	62.809	0.000	1388.57
T4	200.00-180.00	A	1.787	0.000	0.000	79.324	0.000	1652.57
		B		0.000	0.000	117.570	0.000	2168.93
		C		0.000	0.000	116.289	0.000	2492.15
T5	180.00-160.00	A	1.767	0.000	0.000	96.636	0.000	1876.91
		B		0.000	0.000	116.908	0.000	2151.38
		C		0.000	0.000	115.940	0.000	2473.62
T6	160.00-140.00	A	1.745	0.000	0.000	101.708	0.000	1957.71
		B		0.000	0.000	116.173	0.000	2131.88
		C		0.000	0.000	115.552	0.000	2453.06
T7	140.00-120.00	A	1.720	0.000	0.000	101.272	0.000	1937.44
		B		0.000	0.000	115.344	0.000	2109.91
		C		0.000	0.000	115.115	0.000	2429.92
T8	120.00-100.00	A	1.692	0.000	0.000	100.771	0.000	1914.22
		B		0.000	0.000	114.391	0.000	2084.70
		C		0.000	0.000	114.612	0.000	2403.40
T9	100.00-80.00	A	1.658	0.000	0.000	100.180	0.000	1886.94
		B		0.000	0.000	113.267	0.000	2055.02
		C		0.000	0.000	114.020	0.000	2372.23
T10	80.00-60.00	A	1.617	0.000	0.000	99.457	0.000	1853.68
		B		0.000	0.000	111.891	0.000	2018.75
		C		0.000	0.000	113.295	0.000	2334.21
T11	60.00-40.00	A	1.564	0.000	0.000	98.518	0.000	1810.70
		B		0.000	0.000	110.103	0.000	1971.72
		C		0.000	0.000	112.353	0.000	2285.03
T12	40.00-20.00	A	1.486	0.000	0.000	97.154	0.000	1748.63
		B		0.000	0.000	107.501	0.000	1903.53
		C		0.000	0.000	110.983	0.000	2213.96
T13	20.00-0.00	A	1.331	0.000	0.000	47.226	0.000	813.60
		B		0.000	0.000	54.331	0.000	922.00
		C		0.000	0.000	54.135	0.000	1037.31

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Feed Line Center of Pressure

Section	Elevation	CP _x	CP _z	CP _x	CP _z
	ft	in	in	Ice in	Ice in
T1	245.00-240.00	13.5000	-7.7942	13.5000	-7.7942
T2	240.00-220.00	-5.1905	-5.0124	0.8884	-6.0100
T3	220.00-200.00	2.4324	-2.4569	4.6997	-3.0070
T4	200.00-180.00	0.3998	-0.8242	3.2301	-1.7735
T5	180.00-160.00	-0.1311	-2.8081	3.2334	-3.8704
T6	160.00-140.00	-0.3827	-4.3100	3.7325	-5.2691
T7	140.00-120.00	-0.4401	-5.0287	4.3508	-6.1756
T8	120.00-100.00	-0.4976	-5.7475	4.9492	-7.0805
T9	100.00-80.00	-0.5550	-6.4663	5.5212	-7.9835
T10	80.00-60.00	-0.6124	-7.1850	6.0557	-8.8837
T11	60.00-40.00	-0.6698	-7.9038	6.5314	-9.7796
T12	40.00-20.00	-0.7272	-8.6225	6.8958	-10.6674
T13	20.00-0.00	-0.2706	-9.4196	8.6308	-12.2402

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T1	1	Climbing Ladder	240.00 - 245.00	0.6000	0.5013
T1	2	Safety Line 5/16	240.00 - 245.00	0.6000	0.5013
T1	3	1 1/4" Rigid Conduit	240.00 - 245.00	0.6000	0.5013
T1	4	1/2" Ground	240.00 - 245.00	0.6000	0.5013
T2	1	Climbing Ladder	220.00 - 240.00	0.6000	0.5364
T2	2	Safety Line 5/16	220.00 - 240.00	0.6000	0.5364
T2	3	1 1/4" Rigid Conduit	220.00 - 240.00	0.6000	0.5364
T2	4	1/2" Ground	220.00 - 240.00	0.6000	0.5364
T2	5	Feedline Ladder (A)	220.00 - 240.00	0.6000	0.5364
T2	6	Feedline Ladder (A)	220.00 - 225.00	0.6000	0.5364
T2	9	LDF7-50A (1-5/8 FOAM)	220.00 - 240.00	0.6000	0.5364
T2	10	LDF7-50A (1-5/8 FOAM)	220.00 - 225.00	0.6000	0.5364
T3	1	Climbing Ladder	200.00 - 220.00	0.6000	0.5753
T3	2	Safety Line 5/16	200.00 - 220.00	0.6000	0.5753
T3	3	1 1/4" Rigid Conduit	200.00 - 220.00	0.6000	0.5753
T3	4	1/2" Ground	200.00 - 220.00	0.6000	0.5753
T3	5	Feedline Ladder (A)	200.00 - 220.00	0.6000	0.5753

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T3	6	Feedline Ladder (Af)	200.00 - 220.00	0.6000	0.5753
T3	7	Feedline Ladder (Af)	200.00 - 215.00	0.6000	0.5753
T3	9	LDF7-50A (1-5/8 FOAM)	200.00 - 220.00	0.6000	0.5753
T3	10	LDF7-50A (1-5/8 FOAM)	200.00 - 220.00	0.6000	0.5753
T3	11	LDF7-50A (1-5/8 FOAM)	200.00 - 215.00	0.6000	0.5753
T3	12	LDF7-50A (1-5/8 FOAM)	200.00 - 205.00	0.6000	0.5753
T4	1	Climbing Ladder	180.00 - 200.00	0.6000	0.6000
T4	2	Safety Line 5/16	180.00 - 200.00	0.6000	0.6000
T4	3	1 1/4" Rigid Conduit	180.00 - 200.00	0.6000	0.6000
T4	4	1/2" Ground	180.00 - 200.00	0.6000	0.6000
T4	5	Feedline Ladder (Af)	180.00 - 200.00	0.6000	0.6000
T4	6	Feedline Ladder (Af)	180.00 - 200.00	0.6000	0.6000
T4	7	Feedline Ladder (Af)	180.00 - 200.00	0.6000	0.6000
T4	9	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.6000
T4	10	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.6000
T4	11	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.6000
T4	12	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.6000
T4	14	LDF7-50A (1-5/8 FOAM)	180.00 - 190.00	0.6000	0.6000
T5	1	Climbing Ladder	160.00 - 180.00	0.6000	0.6000
T5	2	Safety Line 5/16	160.00 - 180.00	0.6000	0.6000
T5	3	1 1/4" Rigid Conduit	160.00 - 180.00	0.6000	0.6000
T5	4	1/2" Ground	160.00 - 180.00	0.6000	0.6000
T5	5	Feedline Ladder (Af)	160.00 - 180.00	0.6000	0.6000
T5	6	Feedline Ladder (Af)	160.00 - 180.00	0.6000	0.6000
T5	7	Feedline Ladder (Af)	160.00 - 180.00	0.6000	0.6000
T5	9	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.6000
T5	10	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.6000
T5	11	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.6000
T5	12	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.6000
T5	13	LDF7-50A (1-5/8 FOAM)	160.00 - 170.00	0.6000	0.6000
T5	14	LDF7-50A (1-5/8 FOAM)	170.00 - 180.00	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _s Ice
T6	1	Climbing Ladder	140.00 - 160.00	0.6000	0.6000
T6	2	Safety Line 5/16	140.00 - 160.00	0.6000	0.6000
T6	3	1 1/4" Rigid Conduit	140.00 - 160.00	0.6000	0.6000
T6	4	1/2" Ground	140.00 - 160.00	0.6000	0.6000
T6	5	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.6000
T6	6	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.6000
T6	7	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.6000
T6	9	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.6000
T6	10	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.6000
T6	11	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.6000
T6	12	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.6000
T6	13	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.6000
T7	1	Climbing Ladder	120.00 - 140.00	0.6000	0.6000
T7	2	Safety Line 5/16	120.00 - 140.00	0.6000	0.6000
T7	3	1 1/4" Rigid Conduit	120.00 - 140.00	0.6000	0.6000
T7	4	1/2" Ground	120.00 - 140.00	0.6000	0.6000
T7	5	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T7	6	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T7	7	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T7	9	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.6000
T7	10	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.6000
T7	11	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.6000
T7	12	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.6000
T7	13	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.6000
T8	1	Climbing Ladder	100.00 - 120.00	0.6000	0.6000
T8	2	Safety Line 5/16	100.00 - 120.00	0.6000	0.6000
T8	3	1 1/4" Rigid Conduit	100.00 - 120.00	0.6000	0.6000
T8	4	1/2" Ground	100.00 - 120.00	0.6000	0.6000
T8	5	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T8	6	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T8	7	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _s No Ice	K _s Ice
T8	9	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.6000
T8	10	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.6000
T8	11	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.6000
T8	12	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.6000
T8	13	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.6000
T9	1	Climbing Ladder	80.00 - 100.00	0.6000	0.6000
T9	2	Safety Line 5/16	80.00 - 100.00	0.6000	0.6000
T9	3	1 1/4" Rigid Conduit	80.00 - 100.00	0.6000	0.6000
T9	4	1/2" Ground	80.00 - 100.00	0.6000	0.6000
T9	5	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T9	6	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T9	7	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T9	9	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T9	10	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T9	11	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T9	12	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T9	13	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T10	1	Climbing Ladder	60.00 - 80.00	0.6000	0.6000
T10	2	Safety Line 5/16	60.00 - 80.00	0.6000	0.6000
T10	3	1 1/4" Rigid Conduit	60.00 - 80.00	0.6000	0.6000
T10	4	1/2" Ground	60.00 - 80.00	0.6000	0.6000
T10	5	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T10	6	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T10	7	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T10	9	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T10	10	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T10	11	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T10	12	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T10	13	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T11	1	Climbing Ladder	40.00 - 60.00	0.6000	0.6000
T11	2	Safety Line 5/16	40.00 - 60.00	0.6000	0.6000
T11	3	1 1/4" Rigid Conduit	40.00 - 60.00	0.6000	0.6000
T11	4	1/2" Ground	40.00 - 60.00	0.6000	0.6000
T11	5	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T11	6	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T11	7	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T11	9	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T11	10	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T11	11	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T11	12	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T11	13	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T12	1	Climbing Ladder	20.00 - 40.00	0.6000	0.6000
T12	2	Safety Line 5/16	20.00 - 40.00	0.6000	0.6000
T12	3	1 1/4" Rigid Conduit	20.00 - 40.00	0.6000	0.6000
T12	4	1/2" Ground	20.00 - 40.00	0.6000	0.6000
T12	5	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T12	6	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T12	7	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T12	9	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T12	10	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T12	11	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T12	12	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T12	13	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T13	1	Climbing Ladder	10.00 - 20.00	0.6000	0.6000
T13	2	Safety Line 5/16	10.00 - 20.00	0.6000	0.6000
T13	3	1 1/4" Rigid Conduit	10.00 - 20.00	0.6000	0.6000
T13	4	1/2" Ground	0.00 - 20.00	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T13	5	Feedline Ladder (Af)	10.00 - 20.00	0.6000	0.6000
T13	6	Feedline Ladder (Af)	10.00 - 20.00	0.6000	0.6000
T13	7	Feedline Ladder (Af)	10.00 - 20.00	0.6000	0.6000
T13	9	LDF7-50A (1-5/8 FOAM)	10.00 - 20.00	0.6000	0.6000
T13	10	LDF7-50A (1-5/8 FOAM)	10.00 - 20.00	0.6000	0.6000
T13	11	LDF7-50A (1-5/8 FOAM)	10.00 - 20.00	0.6000	0.6000
T13	12	LDF7-50A (1-5/8 FOAM)	10.00 - 20.00	0.6000	0.6000
T13	13	LDF7-50A (1-5/8 FOAM)	10.00 - 20.00	0.6000	0.6000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment	Placement ft	$C_A A_A$ Front ft ²	$C_A A_A$ Side ft ²	Weight lb
Lightning Rod	C	From Leg	0.00	0.0000	245.00	No Ice 1.00	1.00	10.00
			0.00			1/2" Ice 1.30	1.30	13.00
			0.00			1" Ice 1.60	1.60	16.00
L-864 Beacon	B	From Leg	0.00	0.0000	245.00	No Ice 2.72	2.72	80.00
			0.00			1/2" Ice 2.98	2.98	115.00
			0.00			1" Ice 3.25	3.25	152.00
L-810 Side Light	A	From Leg	0.50	0.0000	125.00	No Ice 0.20	0.20	3.00
			0.00			1/2" Ice 0.28	0.28	6.00
			0.00			1" Ice 0.36	0.36	10.00
L-810 Side Light	B	From Leg	0.50	0.0000	125.00	No Ice 0.20	0.20	3.00
			0.00			1/2" Ice 0.28	0.28	6.00
			0.00			1" Ice 0.36	0.36	10.00
L-810 Side Light	C	From Leg	0.50	0.0000	125.00	No Ice 0.20	0.20	3.00
			0.00			1/2" Ice 0.28	0.28	6.00
			0.00			1" Ice 0.36	0.36	10.00

Sector 66.7 sqft - 1,334 lbs	A	From Leg	3.00	0.0000	240.00	No Ice 66.70	50.00	1333.00
			0.00			1/2" Ice 75.00	56.25	1733.00
			0.00			1" Ice 83.30	62.50	2133.00
Sector 66.7 sqft - 1,334 lbs	B	From Leg	3.00	0.0000	240.00	No Ice 66.70	50.00	1333.00
			0.00			1/2" Ice 75.00	56.25	1733.00
			0.00			1" Ice 83.30	62.50	2133.00
Sector 66.7 sqft - 1,334 lbs	C	From Leg	3.00	0.0000	240.00	No Ice 66.70	50.00	1333.00
			0.00			1/2" Ice 75.00	56.25	1733.00
			0.00			1" Ice 83.30	62.50	2133.00

Sector 50 sqft - 1,334 lbs	A	From Leg	3.00	0.0000	225.00	No Ice 50.00	37.50	1333.00
			0.00			1/2" Ice 58.40	43.80	1733.00
			0.00			1" Ice 66.70	50.00	2133.00
Sector 50 sqft - 1,334 lbs	B	From Leg	3.00	0.0000	225.00	No Ice 50.00	37.50	1333.00
			0.00			1/2" Ice 58.40	43.80	1733.00
			0.00			1" Ice 66.70	50.00	2133.00
Sector 50 sqft - 1,334 lbs	C	From Leg	3.00	0.0000	225.00	No Ice 50.00	37.50	1333.00
			0.00			1/2" Ice 58.40	43.80	1733.00
			0.00			1" Ice 66.70	50.00	2133.00

Sector 41.67 sqft - 1,334 lbs	A	From Leg	3.00	0.0000	215.00	No Ice 41.67	31.25	1333.00

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Description	Face or Leg	Offset Type	Offsets: Horiz Lateral Vert	Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight				
			ft ft ft	°	ft	ft ²	ft ²	lb				
Sector 41.67 sqft - 1,334 lbs	B	From Leg	0.00	0.0000	215.00	No Ice	41.67	31.25	1733.00			
			0.00						1/2" Ice	58.33	43.75	2133.00
			3.00						1" Ice	58.33	43.75	2133.00
			0.00						No Ice	41.67	31.25	1333.00
Sector 41.67 sqft - 1,334 lbs	C	From Leg	0.00	0.0000	215.00	No Ice	41.67	31.25	1733.00			
			0.00						1/2" Ice	50.00	37.50	1733.00
			3.00						1" Ice	58.33	43.75	2133.00
			0.00						No Ice	41.67	31.25	1333.00

Sector 35 sqft - 1,334 lbs	A	From Leg	3.00	0.0000	205.00	No Ice	35.00	26.25	1333.00			
			0.00						1/2" Ice	43.33	32.50	1733.00
			0.00						1" Ice	51.67	38.75	2133.00
			3.00						No Ice	35.00	26.25	1333.00
Sector 35 sqft - 1,334 lbs	B	From Leg	0.00	0.0000	205.00	No Ice	35.00	26.25	1333.00			
			0.00						1/2" Ice	43.33	32.50	1733.00
			0.00						1" Ice	51.67	38.75	2133.00
			3.00						No Ice	35.00	26.25	1333.00
Sector 35 sqft - 1,334 lbs	C	From Leg	3.00	0.0000	205.00	No Ice	35.00	26.25	1333.00			
			0.00						1/2" Ice	43.33	32.50	1733.00
			0.00						1" Ice	51.67	38.75	2133.00
			3.00						No Ice	35.00	26.25	1333.00

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horiz Lateral Vert	Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight		
				ft ft ft	°	°	ft	ft	ft ²	lb		
8' HP Dish (60 sq ft, 1000 lbs)	B	Paraboloid w/Shroud (HP)	From Leg	1.50	0.0000		190.00	8.00	No Ice	60.00	1000.00	
				0.00						1/2" Ice	85.00	1500.00
				0.00						1" Ice	110.00	2000.00
				1.50						No Ice	60.00	1000.00
8' HP Dish (60 sq ft, 1000 lbs)	C	Paraboloid w/Shroud (HP)	From Leg	1.50	0.0000		170.00	8.00	No Ice	60.00	1000.00	
				0.00						1/2" Ice	85.00	1500.00
				0.00						1" Ice	110.00	2000.00
				1.50						No Ice	60.00	1000.00

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice

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Comb. No.	Description
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	245 - 240	9.656	43	0.3962	0.0469
T2	240 - 220	9.243	43	0.3964	0.0465
T3	220 - 200	7.578	43	0.3677	0.0460
T4	200 - 180	6.077	43	0.3190	0.0446
T5	180 - 160	4.802	43	0.2647	0.0356
T6	160 - 140	3.737	43	0.2220	0.0307
T7	140 - 120	2.831	43	0.1844	0.0225
T8	120 - 100	2.074	43	0.1514	0.0162
T9	100 - 80	1.462	39	0.1220	0.0122
T10	80 - 60	0.966	39	0.0962	0.0090
T11	60 - 40	0.559	39	0.0735	0.0057
T12	40 - 20	0.263	39	0.0478	0.0036
T13	20 - 0	0.075	39	0.0222	0.0017

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Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
245.00	Lightning Rod	43	9.656	0.3962	0.0469	56372
240.00	Sector 66.7 sqft - 1,334 lbs	43	9.243	0.3964	0.0465	56372
225.00	Sector 50 sqft - 1,334 lbs	43	7.987	0.3781	0.0460	35639
215.00	Sector 41.67 sqft - 1,334 lbs	43	7.182	0.3566	0.0461	21752
205.00	Sector 35 sqft - 1,334 lbs	43	6.431	0.3322	0.0456	21324
190.00	8' HP Dish (60 sq ft, 1000 lbs)	43	5.411	0.2913	0.0407	21329
170.00	8' HP Dish (60 sq ft, 1000 lbs)	43	4.246	0.2420	0.0337	26036
125.00	L-810 Side Light	43	2.249	0.1592	0.0175	32271

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	245 - 240	35.409	10	1.4519	0.1727
T2	240 - 220	33.895	10	1.4528	0.1710
T3	220 - 200	27.793	10	1.3476	0.1693
T4	200 - 180	22.295	10	1.1683	0.1640
T5	180 - 160	17.622	10	0.9700	0.1309
T6	160 - 140	13.716	10	0.8142	0.1128
T7	140 - 120	10.408	2	0.6765	0.0829
T8	120 - 100	7.636	2	0.5554	0.0595
T9	100 - 80	5.386	2	0.4477	0.0450
T10	80 - 60	3.557	2	0.3531	0.0329
T11	60 - 40	2.059	2	0.2699	0.0209
T12	40 - 20	0.967	2	0.1759	0.0133
T13	20 - 0	0.277	3	0.0818	0.0063

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
245.00	Lightning Rod	10	35.409	1.4519	0.1727	15417
240.00	Sector 66.7 sqft - 1,334 lbs	10	33.895	1.4528	0.1710	15417
225.00	Sector 50 sqft - 1,334 lbs	10	29.292	1.3857	0.1692	9697
215.00	Sector 41.67 sqft - 1,334 lbs	10	26.342	1.3065	0.1696	5916
205.00	Sector 35 sqft - 1,334 lbs	10	23.593	1.2167	0.1677	5808
190.00	8' HP Dish (60 sq ft, 1000 lbs)	10	19.856	1.0669	0.1496	5850
170.00	8' HP Dish (60 sq ft, 1000 lbs)	10	15.585	0.8874	0.1241	7146
125.00	L-810 Side Light	2	8.279	0.5842	0.0644	8794

Bolt Design Data

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Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt lb	Allowable Load per Bolt lb	Ratio Load Allowable	Allowable Ratio	Criteria
T1	245	Leg	A325N	0.7500	4	144.43	29820.60	0.005 ✓	1	Bolt Tension
		Diagonal	A325N	0.5000	1	1224.58	6093.75	0.201 ✓	1	Member Block Shear
T2	240	Leg	A325N	0.7500	4	9653.98	29820.60	0.324 ✓	1	Bolt Tension
		Diagonal	A325N	0.5000	1	6431.25	6855.47	0.938 ✓	1	Member Block Shear
T3	220	Leg	A325N	0.7500	4	23420.90	29820.60	0.785 ✓	1	Bolt Tension
		Diagonal	A325N	0.5000	1	6501.14	6855.47	0.948 ✓	1	Member Block Shear
T4	200	Leg	A325N	1.0000	4	36703.60	53014.40	0.692 ✓	1	Bolt Tension
		Diagonal	A325N	0.5000	1	7262.99	7952.16	0.913 ✓	1	Bolt Shear
T5	180	Leg	A325N	1.0000	4	48343.30	53014.40	0.912 ✓	1	Bolt Tension
		Diagonal	A325N	0.6250	1	8149.68	11654.30	0.699 ✓	1	Member Block Shear
T6	160	Leg	A325N	1.0000	6	39327.60	53014.40	0.742 ✓	1	Bolt Tension
		Diagonal	A325N	0.6250	1	8104.81	11654.30	0.695 ✓	1	Member Block Shear
T7	140	Leg	A325N	1.0000	6	45746.00	53014.40	0.863 ✓	1	Bolt Tension
		Diagonal	A325N	0.6250	1	8724.22	12425.20	0.702 ✓	1	Bolt Shear
T8	120	Leg	A325N	1.0000	6	51499.00	53014.40	0.971 ✓	1	Bolt Tension
		Diagonal	A325N	0.6250	1	9587.47	12425.20	0.772 ✓	1	Bolt Shear
T9	100	Leg	A325N	1.1250	6	57193.40	67096.30	0.852 ✓	1	Bolt Tension
		Diagonal	A325N	0.6250	1	10283.70	12425.20	0.828 ✓	1	Bolt Shear
T10	80	Leg	A325N	1.1250	6	62785.70	67096.30	0.936 ✓	1	Bolt Tension
		Diagonal	A325N	0.6250	1	11455.10	12425.20	0.922 ✓	1	Bolt Shear
T11	60	Leg	A325N	1.1250	6	65759.20	67096.30	0.980 ✓	1	Bolt Tension
		Diagonal	A325N	0.7500	1	15525.60	16087.50	0.965 ✓	1	Member Bearing
		Horizontal	A325N	0.7500	1	7876.90	16087.50	0.490 ✓	1	Member Bearing
T12	40	Leg	A325N	1.2500	6	71486.30	82835.00	0.863 ✓	1	Bolt Tension
		Diagonal	A325N	0.7500	1	15754.30	16087.50	0.979 ✓	1	Member Bearing
		Horizontal	A325N	0.7500	1	8649.08	16087.50	0.538 ✓	1	Member Bearing
T13	20	Leg	F1554-10 5	1.5000	6	76205.50	124252.00	0.613 ✓	1	Bolt Tension
		Diagonal	A325N	0.7500	1	16793.30	17892.40	0.939 ✓	1	Bolt Shear
		Horizontal	A325N	0.7500	1	9268.90	16087.50	0.576 ✓	1	Member Bearing

Compression Checks

Leg Design Data (Compression)

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Section No.	Elevation ft	Size	L ft	L _w ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio P _u / φP _n
T1	245 - 240	1 3/4	5.00	5.00	137.1 K=1.00	2.4053	-886.41	28890.80	0.031 ¹
T2	240 - 220	2	20.00	4.00	96.0 K=1.00	3.1416	-45844.80	72063.20	0.636 ¹
T3	220 - 200	2 1/2	20.03	4.01	76.9 K=1.00	4.9087	-109525.00	143306.00	0.764 ¹
T4	200 - 180	2 3/4	20.03	4.01	69.9 K=1.00	5.9396	-168312.00	186923.00	0.900 ¹
T5	180 - 160	3 1/4	20.03	5.01	74.0 K=1.00	8.2958	-217803.00	250223.00	0.870 ¹
T6	160 - 140	3 1/2	20.03	5.01	68.7 K=1.00	9.6211	-264749.00	306641.00	0.863 ¹
T7	140 - 120	3 3/4	20.03	5.01	64.1 K=1.00	11.0447	-308518.00	368015.00	0.838 ¹
T8	120 - 100	4	20.03	6.68	80.1 K=1.00	12.5664	-348729.00	353604.00	0.986 ¹
T9	100 - 80	4 1/4	20.03	6.68	75.4 K=1.00	14.1863	-389635.00	421170.00	0.925 ¹
T10	80 - 60	4 1/2	20.03	6.68	71.2 K=1.00	15.9043	-430934.00	493875.00	0.873 ¹
T11	60 - 40	4 1/4	20.03	5.01	56.6 K=1.00	14.1863	-454206.00	505220.00	0.899 ¹
T12	40 - 20	4 1/4	20.03	5.01	56.6 K=1.00	14.1863	-498732.00	505220.00	0.987 ¹
T13	20 - 0	4 1/2	20.03	5.01	53.4 K=1.00	15.9043	-534473.00	580902.00	0.920 ¹

¹ P_u / φP_n controls

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _w ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio P _u / φP _n
T1	245 - 240	L1 3/4x1 3/4x1/8	6.73	3.11	110.7 K=1.03	0.4219	-1187.27	7713.26	0.154 ¹
T2	240 - 220	L2x2x1/8	6.02	2.75	92.3 K=1.11	0.4844	-6592.41	10842.20	0.608 ¹
T3	220 - 200	L2x2x1/8	7.46	3.58	111.1 K=1.03	0.4844	-6661.43	8580.58	0.776 ¹
T4	200 - 180	L2x2x3/16	9.21	4.45	135.4 K=1.00	0.7150	-7065.29	8812.62	0.802 ¹
T5	180 - 160	L2 1/2x2 1/2x3/16	11.41	5.55	134.4 K=1.00	0.9020	-8250.56	11275.70	0.732 ¹
T6	160 - 140	L2 1/2x2 1/2x3/16	13.23	6.45	156.3 K=1.00	0.9020	-8281.60	8340.55	0.993 ¹
T7	140 - 120	L3x3x3/16	15.10	7.37	148.4 K=1.00	1.0900	-8724.22	11176.20	0.781 ¹
T8	120 - 100	L3x3x1/4	17.49	8.60	174.3 K=1.00	1.4400	-9587.47	10709.10	0.895 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T9	100 - 80	L3 1/2x3 1/2x1/4	19.35	9.52	164.6 K=1.00	1.6900	-10283.70	14092.30	0.730 ¹ ✓
T10	80 - 60	L3 1/2x3 1/2x1/4	21.24	10.45	180.7 K=1.00	1.6900	-10852.10	11687.70	0.929 ¹ ✓
T11	60 - 40	L4x4x1/4	15.05	14.53	139.5 K=1.00	1.9400	-17010.70	22536.90	0.755 ¹ ✓
T12	40 - 20	L4x4x1/4	15.82	15.30	146.8 K=1.00	1.9400	-15084.90	20326.20	0.742 ¹ ✓
T13	20 - 0	L4x4x1/4	16.60	16.08	154.3 K=1.00	1.9400	-16793.30	18401.00	0.913 ¹ ✓

¹ P_u / φP_n controls

Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T11	60 - 40	L3 1/2x3 1/2x1/4	21.50	10.43	180.3 K=1.00	1.6900	-7876.90	11745.10	0.671 ¹ ✓
T12	40 - 20	L3 1/2x3 1/2x1/4	23.50	11.43	197.6 K=1.00	1.6900	-8649.08	9779.40	0.884 ¹ ✓
T13	20 - 0	L4x4x1/4	25.50	12.42	187.4 K=1.00	1.9400	-9268.90	12476.80	0.743 ¹ ✓

¹ P_u / φP_n controls

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	245 - 240	L1 3/4x1 3/4x1/8	4.50	4.35	138.9 K=0.92	0.4219	-711.53	4943.16	0.144 ¹ ✓

¹ P_u / φP_n controls

Redundant Horizontal (1) Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio P _u / φP _n
T11	60 - 40	L2 1/2x2 1/2x3/16	5.38	5.20	126.0 K=1.00	0.9020	-7876.90	12833.20	0.614 ¹
T12	40 - 20	L2 1/2x2 1/2x3/16	5.88	5.70	138.1 K=1.00	0.9020	-8649.08	10679.80	0.810 ¹
T13	20 - 0	L3x3x3/16	6.38	6.19	124.6 K=1.00	1.0900	-9268.90	15865.90	0.584 ¹

¹ P_u / φP_n controls

Redundant Diagonal (1) Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio P _u / φP _n
T11	60 - 40	L2 1/2x2 1/2x3/16	7.53	7.28	176.5 K=1.00	0.9020	-5515.57	6542.26	0.843 ¹
T12	40 - 20	L2 1/2x2 1/2x3/16	7.91	7.67	186.0 K=1.00	0.9020	-5821.02	5892.21	0.988 ¹
T13	20 - 0	L3x3x3/16	8.30	8.06	162.3 K=1.00	1.0900	-6034.81	9351.99	0.645 ¹

¹ P_u / φP_n controls

Inner Bracing Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio P _u / φP _n
T11	60 - 40	L2x2x1/8	10.75	10.75	324.5 K=1.00	0.4844	-20.93	1039.22	0.020 ¹
T12	40 - 20	KL/R > 250 (C) - 281 L2x2x1/8	11.75	11.75	354.7 K=1.00	0.4844	-21.27	869.86	0.024 ¹
T13	20 - 0	KL/R > 250 (C) - 325 L2x2x1/8 KL/R > 250 (C) - 370	12.75	12.75	384.9 K=1.00	0.4844	-21.51	738.76	0.029 ¹

¹ P_u / φP_n controls

Tension Checks

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Leg Design Data (Tension)

Section No.	Elevation <i>ft</i>	Size	L <i>ft</i>	L _w <i>ft</i>	Kl/r	A <i>in²</i>	P _u <i>lb</i>	φP _n <i>lb</i>	Ratio $\frac{P_u}{\phi P_n}$
T1	245 - 240	1 3/4	5.00	5.00	137.1	2.4053	577.71	108238.00	0.005 ¹
T2	240 - 220	2	20.00	4.00	96.0	3.1416	38615.90	141372.00	0.273 ¹
T3	220 - 200	2 1/2	20.03	4.01	76.9	4.9087	93683.40	220893.00	0.424 ¹
T4	200 - 180	2 3/4	20.03	4.01	69.9	5.9396	146814.00	267281.00	0.549 ¹
T5	180 - 160	3 1/4	20.03	5.01	74.0	8.2958	193373.00	373310.00	0.518 ¹
T6	160 - 140	3 1/2	20.03	5.01	68.7	9.6211	235966.00	432951.00	0.545 ¹
T7	140 - 120	3 3/4	20.03	5.01	64.1	11.0447	274476.00	497010.00	0.552 ¹
T8	120 - 100	4	20.03	6.68	80.1	12.5664	308994.00	565487.00	0.546 ¹
T9	100 - 80	4 1/4	20.03	6.68	75.4	14.1863	343160.00	638381.00	0.538 ¹
T10	80 - 60	4 1/2	20.03	6.68	71.2	15.9043	376714.00	715694.00	0.526 ¹
T11	60 - 40	4 1/4	20.03	5.01	56.6	14.1863	395631.00	638381.00	0.620 ¹
T12	40 - 20	4 1/4	20.03	5.01	56.6	14.1863	429867.00	638381.00	0.673 ¹
T13	20 - 0	4 1/2	20.03	5.01	53.4	15.9043	457726.00	715694.00	0.640 ¹

¹ P_u / φP_n controls

Diagonal Design Data (Tension)

Section No.	Elevation <i>ft</i>	Size	L <i>ft</i>	L _w <i>ft</i>	Kl/r	A <i>in²</i>	P _u <i>lb</i>	φP _n <i>lb</i>	Ratio $\frac{P_u}{\phi P_n}$
T1	245 - 240	L1 3/4x1 3/4x1/8	6.73	3.11	71.6	0.2578	1224.58	12568.40	0.097 ¹
T2	240 - 220	L2x2x1/8	6.02	2.75	55.5	0.3047	6431.25	14853.50	0.433 ¹
T3	220 - 200	L2x2x1/8	7.46	3.58	71.4	0.3047	6501.14	14853.50	0.438 ¹
T4	200 - 180	L2x2x3/16	8.86	4.27	85.8	0.4484	7182.64	21857.50	0.329 ¹
T5	180 - 160	L2 1/2x2 1/2x3/16	10.96	5.32	84.4	0.5710	8149.68	27837.80	0.293 ¹
T6	160 - 140	L2 1/2x2 1/2x3/16	12.77	6.22	98.2	0.5710	8104.81	27837.80	0.291 ¹
T7	140 - 120	L3x3x3/16	15.10	7.37	96.1	0.7120	8537.92	34711.50	0.246 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T8	120 - 100	L3x3x1/4	17.49	8.60	112.8	0.9394	9332.55	45794.50	0.204 ¹ ✓
T9	100 - 80	L3 1/2x3 1/2x1/4	19.35	9.52	106.4	1.1269	10015.10	54935.20	0.182 ¹ ✓
T10	80 - 60	L3 1/2x3 1/2x1/4	21.24	10.45	116.7	1.1269	11455.10	54935.20	0.209 ¹ ✓
T11	60 - 40	L4x4x1/4	15.05	14.53	142.3	1.2909	15525.60	62933.20	0.247 ¹ ✓
T12	40 - 20	L4x4x1/4	15.05	14.53	142.3	1.2909	15754.30	62933.20	0.250 ¹ ✓
T13	20 - 0	L4x4x1/4	16.60	16.08	157.1	1.2909	14908.80	62933.20	0.237 ¹ ✓

¹ P_u / φP_n controls

Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T11	60 - 40	L3 1/2x3 1/2x1/4	21.50	10.43	116.4	1.1034	7876.90	53792.60	0.146 ¹ ✓
T12	40 - 20	L3 1/2x3 1/2x1/4	23.50	11.43	127.4	1.1034	8649.08	53792.60	0.161 ¹ ✓
T13	20 - 0	L4x4x1/4	25.50	12.42	120.6	1.2909	9268.90	62933.20	0.147 ¹ ✓

¹ P_u / φP_n controls

Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	245 - 240	L1 3/4x1 3/4x1/8	4.50	4.35	95.8	0.3164	684.30	15424.80	0.044 ¹ ✓

¹ P_u / φP_n controls

Redundant Horizontal (1) Design Data (Tension)

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T11	60 - 40	L2 1/2x2 1/2x3/16	5.38	5.20	80.2	0.9020	7876.90	40590.00	0.194 ¹
T12	40 - 20	L2 1/2x2 1/2x3/16	5.88	5.70	87.9	0.9020	8649.08	40590.00	0.213 ¹
T13	20 - 0	L3x3x3/16	6.38	6.19	79.1	1.0900	9268.90	49050.00	0.189 ¹

¹ P_u / φP_n controls

Redundant Diagonal (1) Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T11	60 - 40	L2 1/2x2 1/2x3/16	7.53	7.28	112.3	0.9020	5515.57	40590.00	0.136 ¹
T12	40 - 20	L2 1/2x2 1/2x3/16	7.91	7.67	118.3	0.9020	5821.02	40590.00	0.143 ¹
T13	20 - 0	L3x3x3/16	8.30	8.06	103.0	1.0900	6034.81	49050.00	0.123 ¹

¹ P_u / φP_n controls

Inner Bracing Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T13	20 - 0	L2x2x1/8	12.75	12.75	244.3	0.4844	3.89	21796.90	0.000 ¹

¹ P_u / φP_n controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	σP _{allow} lb	% Capacity	Pass Fail
T1	245 - 240	Leg	1 3/4	2	-886.41	28890.80	3.1	Pass
		Diagonal	L1 3/4x1 3/4x1/8	10	-1187.27	7713.26	15.4	Pass
T2	240 - 220	Top Girt	L1 3/4x1 3/4x1/8	6	-711.53	4943.16	14.4	Pass
		Leg	2	14	-45844.80	72063.20	63.6	Pass
		Diagonal	L2x2x1/8	16	-6592.41	10842.20	60.8	Pass
								93.8 (b)

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Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	σP_{allow} lb	% Capacity	Pass Fail	
T3	220 - 200	Leg	2 1/2	47	-109525.00	143306.00	76.4	Pass	
		Diagonal	L2x2x1/8	50	-6661.43	8580.58	77.6	Pass	
T4	200 - 180	Leg	2 3/4	80	-168312.00	186923.00	90.0	Pass	
		Diagonal	L2x2x3/16	82	-7065.29	8812.62	80.2	Pass	
T5	180 - 160	Leg	3 1/4	113	-217803.00	250223.00	87.0	Pass	
		Diagonal	L2 1/2x2 1/2x3/16	116	-8250.56	11275.70	73.2	Pass	
T6	160 - 140	Leg	3 1/2	140	-264749.00	306641.00	86.3	Pass	
		Diagonal	L2 1/2x2 1/2x3/16	143	-8281.60	8340.55	99.3	Pass	
T7	140 - 120	Leg	3 3/4	167	-308518.00	368015.00	83.8	Pass	
		Diagonal	L3x3x3/16	170	-8724.22	11176.20	78.1	Pass	
T8	120 - 100	Leg	4	194	-348729.00	353604.00	98.6	Pass	
		Diagonal	L3x3x1/4	197	-9587.47	10709.10	89.5	Pass	
T9	100 - 80	Leg	4 1/4	215	-389635.00	421170.00	92.5	Pass	
		Diagonal	L3 1/2x3 1/2x1/4	218	-10283.70	14092.30	73.0	Pass	
T10	80 - 60	Leg	4 1/2	236	-430934.00	493875.00	87.3	Pass	
		Diagonal	L3 1/2x3 1/2x1/4	239	-10852.10	11687.70	92.9	Pass	
T11	60 - 40	Leg	4 1/4	257	-454206.00	505220.00	89.9	Pass	
		Diagonal	L4x4x1/4	263	-17010.70	22536.90	75.5	Pass	
T12	40 - 20	Horizontal Redund Horz 1 Bracing	L3 1/2x3 1/2x1/4	266	-7876.90	11745.10	67.1	Pass	
		Redund Diag 1 Bracing	L2 1/2x2 1/2x3/16	264	-7876.90	12833.20	61.4	Pass	
T13	20 - 0	Inner Bracing	L2x2x1/8	288	-5515.57	6542.26	84.3	Pass	
		Leg	4 1/4	281	-20.93	1039.22	2.0	Pass	
T11	60 - 40	Diagonal	L4x4x1/4	303	-498732.00	505220.00	98.7	Pass	
		Horizontal Redund Horz 1 Bracing	L3 1/2x3 1/2x1/4	308	-15084.90	20326.20	74.2	Pass	
T12	40 - 20	Redund Diag 1 Bracing	L2 1/2x2 1/2x3/16	311	-8649.08	9779.40	88.4	Pass	
		Inner Bracing	L2x2x1/8	338	-8649.08	10679.80	81.0	Pass	
T13	20 - 0	Leg	4 1/2	339	-5821.02	5892.21	98.8	Pass	
		Diagonal	L4x4x1/4	325	-21.27	869.86	2.4	Pass	
T11	60 - 40	Horizontal Redund Horz 1 Bracing	L4x4x1/4	348	-534473.00	580902.00	92.0	Pass	
		Redund Diag 1 Bracing	L3x3x3/16	353	-16793.30	18401.00	91.3	Pass	
T12	40 - 20	Inner Bracing	L2x2x1/8	356	-9268.90	12476.80	74.3	Pass	
		Leg	4 1/2	361	-9268.90	15865.90	58.4	Pass	
T13	20 - 0	Diagonal	L4x4x1/4	384	-6034.81	9351.99	64.5	Pass	
		Horizontal Redund Horz 1 Bracing	L3x3x3/16	370	-21.51	738.76	2.9	Pass	
							Summary		
							Leg (T12)	98.7	Pass
							Diagonal (T6)	99.3	Pass
							Horizontal (T12)	88.4	Pass
							Top Girt (T1)	14.4	Pass
							Redund Horz 1	81.0	Pass

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Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	σP_{allow} lb	% Capacity	Pass Fail
						Bracing (T12)		
						Redund	98.8	Pass
						Diag 1		
						Bracing (T12)		
						Inner	2.9	Pass
						Bracing (T13)		
						Bolt Checks	98.0	Pass
						RATING =	99.3	Pass

Program Version 8.0.1.0 - 2/8/2018 File: S:/Jobs/2020/20183 (56939, 245' SST Skyway-Locust Site, KY)/Final/Calculations/Tower/56939, 245' SST Skyway-Locust Site, KY Rev 0.eri

FOUNDATION DESIGN

Foundation Design

Mat Footing

Design Parameters:

Tower Info:

$FaceWidth := 26.5 \text{ ft}$

$V_T := 84565 \text{ lbf}$

$C_T := 98715 \text{ lbf}$

$M_T := 11955212 \text{ lbf} \cdot \text{ft}$

$C_{Leg} := 553821 \text{ lbf}$

$T_{Leg} := 473268 \text{ lbf}$

$V_{Leg} := 46475 \text{ lbf}$

Footing Info:

$Conc.Comp. := 4000 \text{ (psi)}$

$Width := 35 \text{ ft}$

$Length := 35 \text{ ft}$

$SlabDepth := 1.75 \text{ ft}$

$No.SlabReb := 54$

$SlabReb.Dia. := 1.0 \text{ in}$

$SlabReb.Area := 0.79 \cdot \text{in}^2$

$Offset := 3.5 \text{ ft}$

Pedestal Info:

$No.Ped := 3$

$Ped.Dia. := 4 \text{ ft}$

$Ped.Depth := 5.5 \text{ ft}$

$No.Ped.Reb := 20$

$Ped.Reb.Dia. := 1 \text{ in}$

$Ped.Reb.Area := 0.79 \text{ in}^2$

$No.Couples := 9$

$Coup.Dist. := 28.23 \cdot \text{in}$

Design Info:

$Ult.SoilBearing := 5000 \text{ psf}$

$SafFact := 2$

$ResistanceFactor := 0.75$

Foundation Design

Mat Footing

Soil Capacity Design:

$$M_{max} := M_T + ((V_T) (Ped.Depth + SlabDepth)) + (C_T \cdot Offset) = 12913810.75 \text{ lbf} \cdot \text{ft}$$

$$C_{max} := C_T + \left((0.9) \left(150 \frac{\text{lbf}}{\text{ft}^3} \right) \left[\begin{array}{l} (Length) (Width) (SlabDepth) \downarrow \\ + (No.Ped) (Ped.Dia.)^2 \left(\frac{\pi}{4} \right) (Ped.Depth) \end{array} \right] \right) \downarrow \\ + (0.9) \left(115 \frac{\text{lbf}}{\text{ft}^3} \right) \left[\begin{array}{l} (Length) (Width) (Ped.Depth - 1 \text{ ft}) \downarrow \\ - (No.Ped) (Ped.Dia.)^2 \left(\frac{\pi}{4} \right) (Ped.Depth - 1 \text{ ft}) \end{array} \right] \right) \downarrow$$

$$C_{max} = [969098] \text{ lbf}$$

$$e := \frac{M_{max}}{C_{max}} = [13.33] \text{ ft}$$

$$e_1 := \left(\frac{Length}{2} \right) - e = [4.17] \text{ ft}$$

$$Soil := (ResistanceFactor) \cdot (SafFact) \cdot Ult.SoilBearing$$

$$q_{max} := \frac{(2 \cdot C_{max})}{3 (Length) (e_1)}$$

Results:

$$q_{max} = 4422 \text{ psf}$$

$$Soil = 7500 \text{ psf}$$

Foundation Design

Mat Footing

Mat Design:

$$W_{max} := q_{max} \cdot Length = 154768 \frac{lb}{ft}$$

$$l := \frac{C_{max}}{0.5 (W_{max})} = [12.52] \text{ ft}$$

$$\Delta Pressure := \frac{W_{max}}{l} = [12359] \text{ psf}$$

$$M_{at} := \left(\frac{Length}{2} \right) - \left(\frac{FaceWidth}{2} \right) \left(\frac{1.732}{3} \right) - Offset = 6.35 \text{ ft}$$

$$W_{at} := W_{max} - (\Delta Pressure) (M_{at}) = [76288] \frac{lb}{ft}$$

$$M_{max} := (0.5) (W_{at}) (M_{at})^2 + \left((0.5) (W_{max} - W_{at}) (M_{at})^2 \left(\frac{2}{3} \right) \right)$$

$$\phi M_n := 0.9 (No.SlabReb) (SlabReb.Area) 60 \text{ ksi} \left(\left(\left(\left(SlabDepth \cdot 12 \frac{in}{ft} \right) \downarrow - 3 \text{ in} - (1.5 \cdot SlabReb.Dia.) \right) \downarrow \right) \right) \left(\frac{(No.SlabReb \cdot SlabReb.Area \cdot 60 \text{ ksi})}{2 \cdot .85 \cdot 4 \text{ ksi} \cdot \left(Length \cdot 12 \frac{in}{ft} \right)} \right)$$

Results

$$M_{max} = [31118] \text{ kip} \cdot \text{in}$$

$$\phi M_n = 35945 \text{ kip} \cdot \text{in}$$

Punching/Pullout

$$\phi V_{cc} := (.75) (4) \left(\sqrt{\text{Conc.Comp. psi}} \right) \left((Ped.Dia.) + (SlabDepth) \right) (\pi) \cdot (SlabDepth)$$

$$\phi V_{ct} := (.75) (4) \left(\sqrt{\text{Conc.Comp. psi}} \right) \left((Ped.Dia. - 6 \text{ in}) + (SlabDepth - 6 \text{ in}) \right) (\pi) (SlabDepth - 6 \text{ in})$$

Results

$$\phi V_{cc} = 863713 \text{ lbf}$$

$$\phi V_{ct} = 509644 \text{ lbf}$$

Pedestal Check

$$M_{ped} := \frac{(V_{Leg} \cdot Ped.Depth)}{1000 \frac{\text{lbf}}{\text{kip}}} = 3067 \text{ kip} \cdot \text{in}$$

$$\phi V_c := 0.75 \cdot 2 \cdot \left(\sqrt{\text{Conc.Comp. psi}} \right) (Ped.Dia. - 6 \text{ in})^2 \left(\frac{\pi}{4} \right) = 131435 \text{ lbf}$$

$$\phi M_n := 0.9 (No.Couples) (Ped.Reb.Area) (60 \text{ ksi}) (Coup.Dist.) = 10839 \text{ kip} \cdot \text{in}$$

$$\phi T_n := 0.9 (No.Ped.Reb) (Ped.Reb.Area) (60000 \text{ psi}) = 853200 \text{ lbf}$$

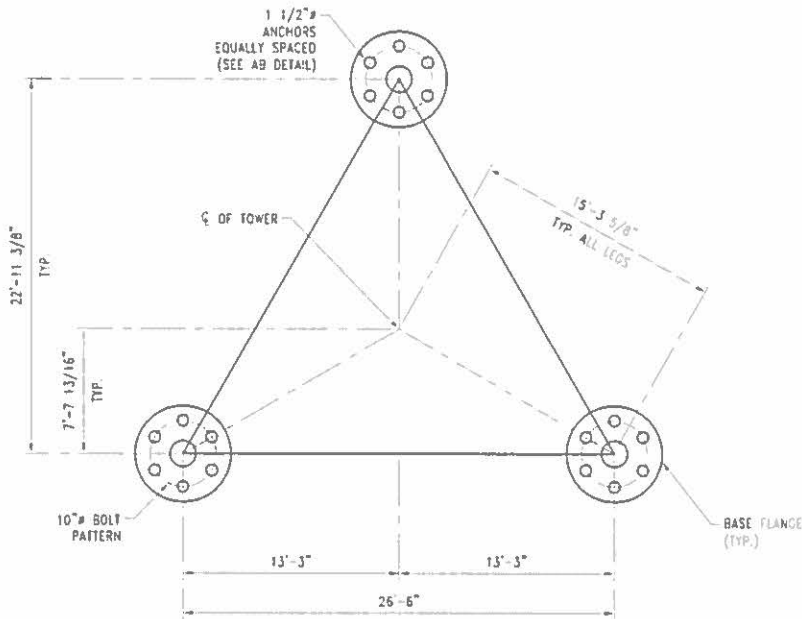
$$\text{Combined} := \frac{T_{Leg}}{\phi T_n} + \frac{M_{ped}}{\phi M_n}$$

Results

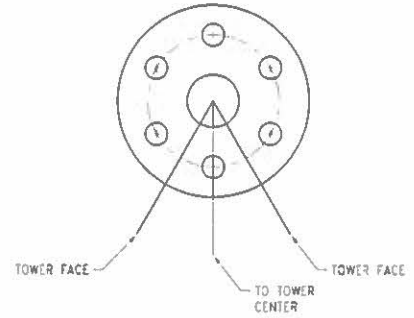
$$\text{Combined} = 0.84$$

ESTIMATED QUANTITIES (PER FOOTING)

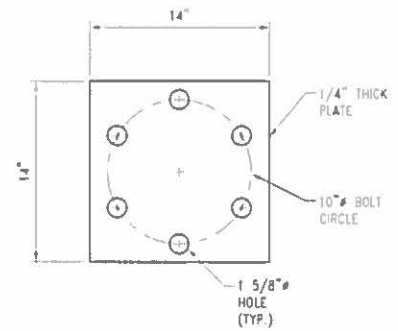
BAR	NO.	DESCRIPTION	TOTAL LENGTH	REMARKS
AB1	18	1 1/2" Ø SOLID ROD	6'-0"	ASTM F1554-105



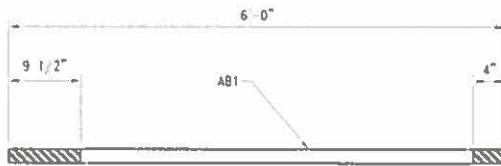
ANCHOR BOLT LAYOUT
SCALE: N.T.S.
(FOUNDATION NOT SHOWN FOR CLARITY)



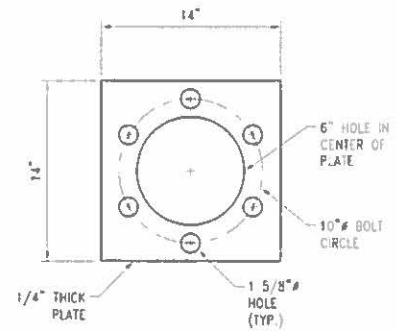
ANCHOR BOLT PATTERN
SCALE: N.T.S.



PO1
SCALE: N.T.S.
(3-REQ'D)



ANCHOR BOLT DETAIL
SCALE: N.T.S.



PO2
SCALE: N.T.S.
(3-REQ'D)



LAFAYETTE, LOUISIANA
(337) 232-3336
WWW.CASENGR.COM

▲					
▲					
▲					
▲					
▲					
▲					
▲	4-20-20	ISSUED FOR CONSTRUCTION	TJ	MJG	
NO.	DATE	REVISION DESCRIPTION	BY	APPR. BY	

DALEY TOWER SERVICE, INC.
CARENCRO, LA
DALEY JOB NO.: 56939



SKYWAY TOWERS
245' SELF SUPPORTER
LOCUST SITE, KY

ANCHOR DETAILS

DRAWN BY: TJ
DESIGNED BY: MJG
CASE JOB NO.: 20183

DRAWING NO.

20183-AB01

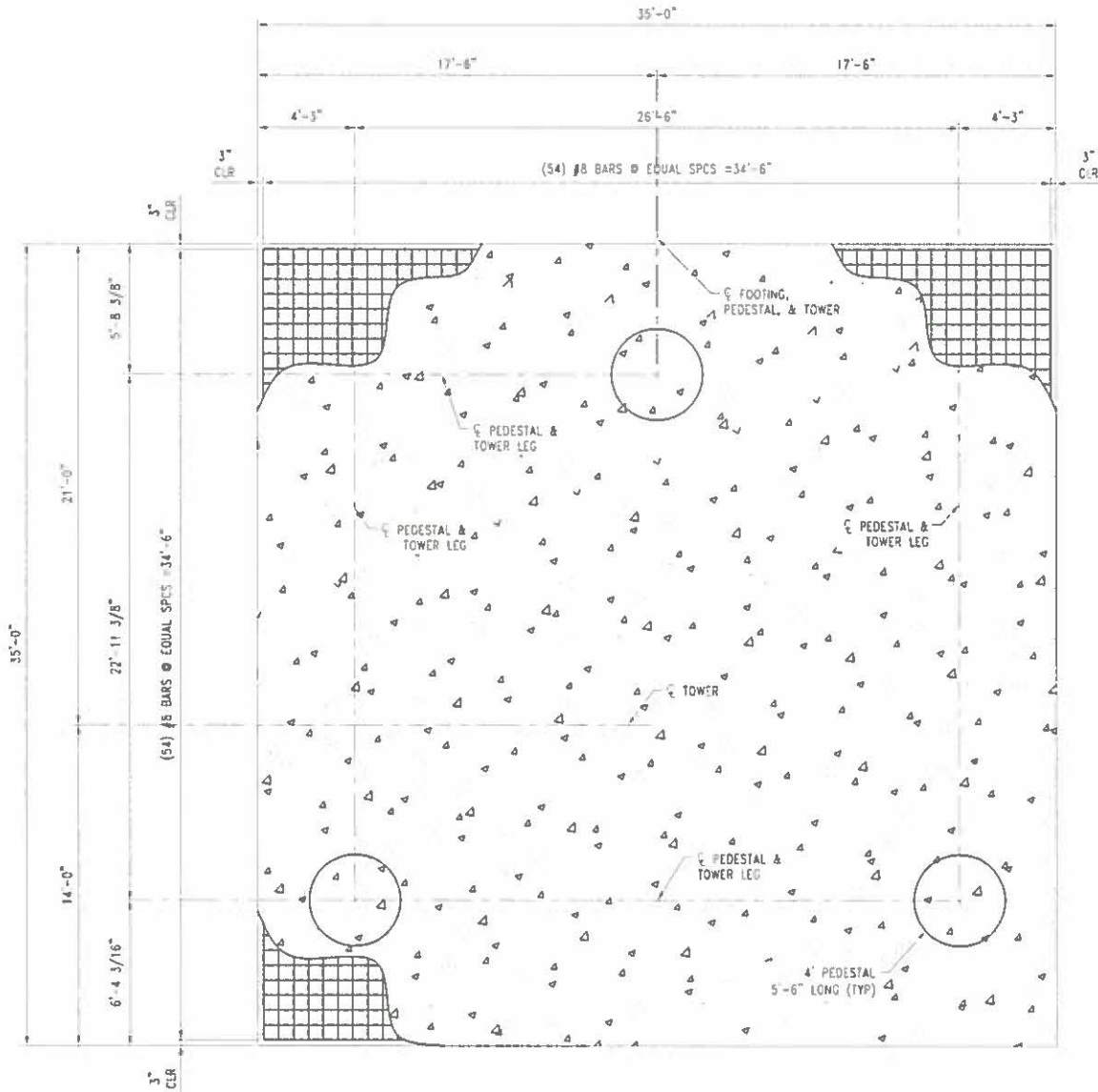
REV
▲

ESTIMATED QUANTITIES (PER FOOTING)

BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
#3	27	12'-0"	324'-0"	PEDESTAL TIES
TOTAL #3 BARS = 324'-0" = 122 LBS				
#8	60	7'-6"	450'-0"	PEDESTAL LONG.
#8	216	34'-6"	7,452'-0"	MAT LONG.
TOTAL #8 BARS = 7,902'-0" = 21,099 LBS				
TOTAL DEFORMED REINFORCING STEEL = 21,221 LBS				
TOTAL 4000 PSI STRUCTURAL CONCRETE = 87.08 CU. YDS				

NOTE:

ESTIMATED QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY AND SHOULD NOT BE USED FOR PURCHASING OF MATERIALS



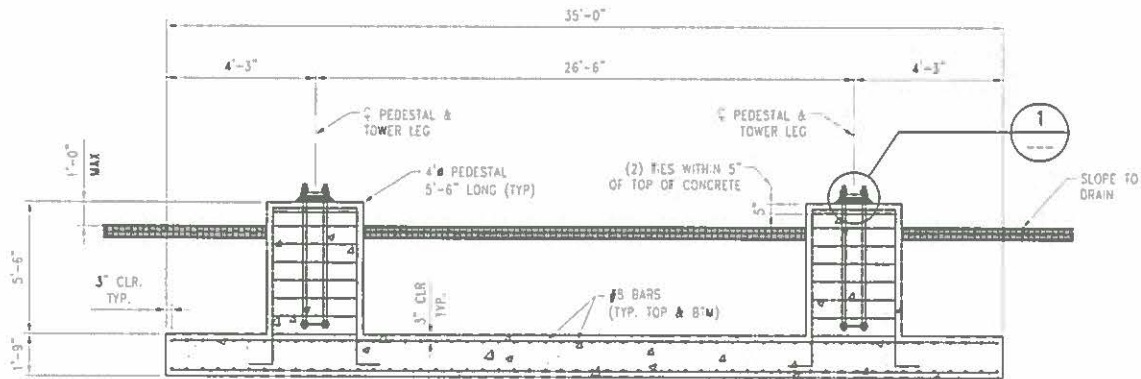
PLAN VIEW
SCALE: N.T.S.

NOTE:
THIS FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT NO. 18-23440 PREPARED BY POWER OF DESIGN GROUP, LLC FOR THE LOCUST TOWER SITE IN GALLATIN COUNTY, KY.

C.A.S.E.
LAFAYETTE, LOUISIANA
(337) 232-3336
WWW.CASENGR.COM

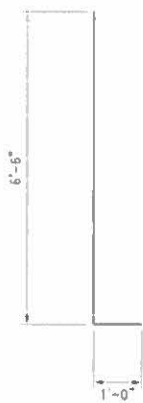
▲										
▲										
▲										
▲										
▲										
▲	4-20-20	ISSUED FOR CONSTRUCTION		TJ	MJG					
NO.	DATE	REVISION DESCRIPTION	BY	APPR. BY	DESIGNED BY	CASE JOB NO.				

DALEY TOWER SERVICE, INC. CARENCRO, LA DALEY JOB NO.: 56939		SKYWAY TOWERS 245' SELF SUPPORTER LOCUST SITE KY
MAT FOOTING FOUNDATION OPTION 1		
DRAWN BY: TJ	DESIGNED BY: MJG	DRAWING NO. 20183-FD01
BY	APPR. BY	REV.



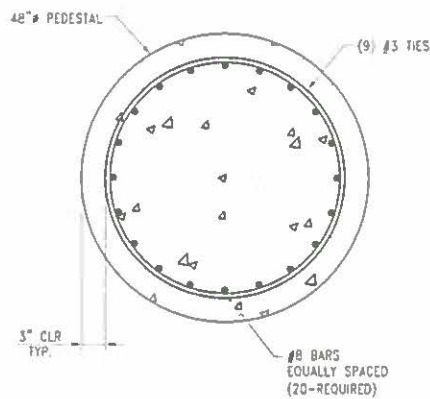
ELEVATION

SCALE: N.T.S.



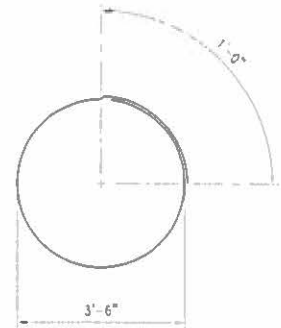
#8 PEDESTAL REBAR

SCALE: N.T.S.



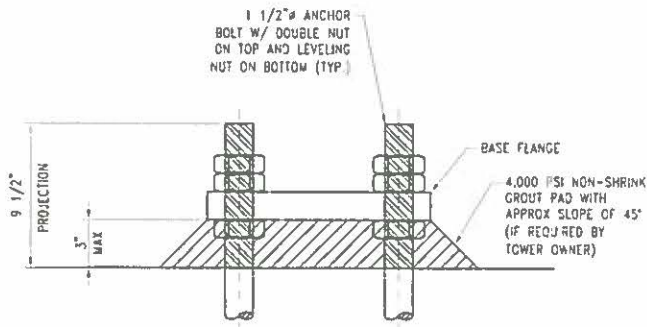
PEDESTAL SECTION

SCALE: N.T.S.



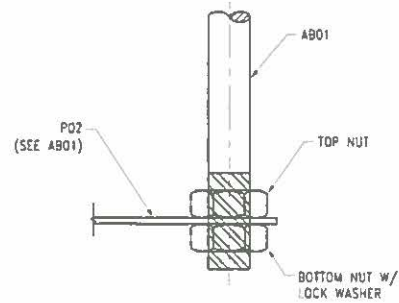
#3 TIES

SCALE: N.T.S.



DETAIL

SCALE: N.T.S.



BOTTOM PLATE CONNECTION DETAIL

SCALE: N.T.S.

NOTE:
THIS FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT NO. 18-23440 PREPARED BY POWER OF DESIGN GROUP, LLC FOR THE LOCUST TOWER SITE IN GALLATIN COUNTY, KY.



LAFAYETTE, LOUISIANA
(337) 232-3336
WWW.CASENGR.COM

▲						
▲						
▲						
▲						
▲						
▲	4-20-20	ISSUED FOR CONSTRUCTION	TJ	MJG		
NO.	DATE	REVISION DESCRIPTION	BY	APPR. BY	CASE JOB NO.	

DALEY TOWER SERVICE, INC. CARENCRO, LA DALEY JOB NO.: 56939			SKYWAY TOWERS 245' SELF SUPPORTER LOCUST SITE, KY				
MAT FOOTING FOUNDATION OPTION 1							
DRAWN BY:	TJ	DESIGNED BY:	MJG	DRAWING NO.	20183-FD02	REV.	▲
				CASE JOB NO.	20183		

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
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Active <input type="text"/>
<input type="button" value="Search"/>				

	Utility ID	Utility Name	Utility Type	Class	City	State
<input type="button" value="View"/>	4111300	2600Hz, Inc. dba ZSWITCH	Cellular	D	San Francisco	CA
<input type="button" value="View"/>	4108300	Air Voice Wireless, LLC	Cellular	B	Bloomfield Hill	MI
<input type="button" value="View"/>	4110650	Alliant Technologies of KY, L.L.C.	Cellular	D	Morristown	NJ
<input type="button" value="View"/>	44451184	Alltel Corporation d/b/a Verizon Wireless	Cellular	A	Lisle	IL
<input type="button" value="View"/>	4110850	AltaWorx, LLC	Cellular	D	Fairhope	AL
<input type="button" value="View"/>	4107800	American Broadband and Telecommunications Company	Cellular	D	Toledo	OH
<input type="button" value="View"/>	4108650	AmeriMex Communications Corp.	Cellular	D	Dunedin	FL
<input type="button" value="View"/>	4105100	AmeriVision Communications, Inc. d/b/a Affinity 4	Cellular	D	Virginia Beach	VA
<input type="button" value="View"/>	4110700	Andrew David Balholm dba Norcell	Cellular	D	Clayton	WA
<input type="button" value="View"/>	4105700	Assurance Wireless USA, L.P.	Cellular	A	Atlanta	GA
<input type="button" value="View"/>	4108600	BCN Telecom, Inc.	Cellular	D	Morristown	NJ
<input type="button" value="View"/>	4106000	Best Buy Health, Inc. d/b/a GreatCall d/b/a Jitterbug	Cellular	A	San Diego	CA
<input type="button" value="View"/>	4110550	Blue Casa Mobile, LLC	Cellular	D	Santa Barbara	CA
<input type="button" value="View"/>	4111050	BlueBird Communications, LLC	Cellular	D	New York	NY
<input type="button" value="View"/>	4202300	Bluegrass Wireless, LLC	Cellular	A	Elizabethtown	KY
<input type="button" value="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	Philadelphia	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	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	Palo Alto	CA
View	4109350	Global Connection Inc. of America	Cellular	D	Norcross	GA
View	4102200	Globalstar USA, LLC	Cellular	B	Covington	LA
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	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 General	Cellular	A	Elizabethtown	KY
View	4111250	Liberty Mobile Wireless, LLC	Cellular	D	Sunny Isles Beach	FL
View	4111550	Lingo Telecom of the South, LLC	Cellular	D	Irving	TX

View	4111400	Locus Telecommunications, LLC	Cellular	A	Fort Lee	NJ
View	4110900	Lunar Labs, Inc.	Cellular	D	Detroit	MI
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	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	4109550	Stream Communications, LLC	Cellular	D	Dallas	TX
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
	4110400	Torch Wireless Corp.	Cellular	D	Jacksonville	FL

View						
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.
 2019-ASO-15052-OE

Issued Date: 07/26/2019

Operations
 Skyway Towers, LLC
 3637 Madaca Lane
 Tampa, FL 33618

**** 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 KY-03072 Locust
 Location: Milton, KY
 Latitude: 38-42-20.66N NAD 83
 Longitude: 85-16-51.00W
 Heights: 835 feet site elevation (SE)
 255 feet above ground level (AGL)
 1090 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 01/26/2021 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 2019-ASO-15052-OE.

Signature Control No: 403889316-412639915
Angelique Eersteling
Technician

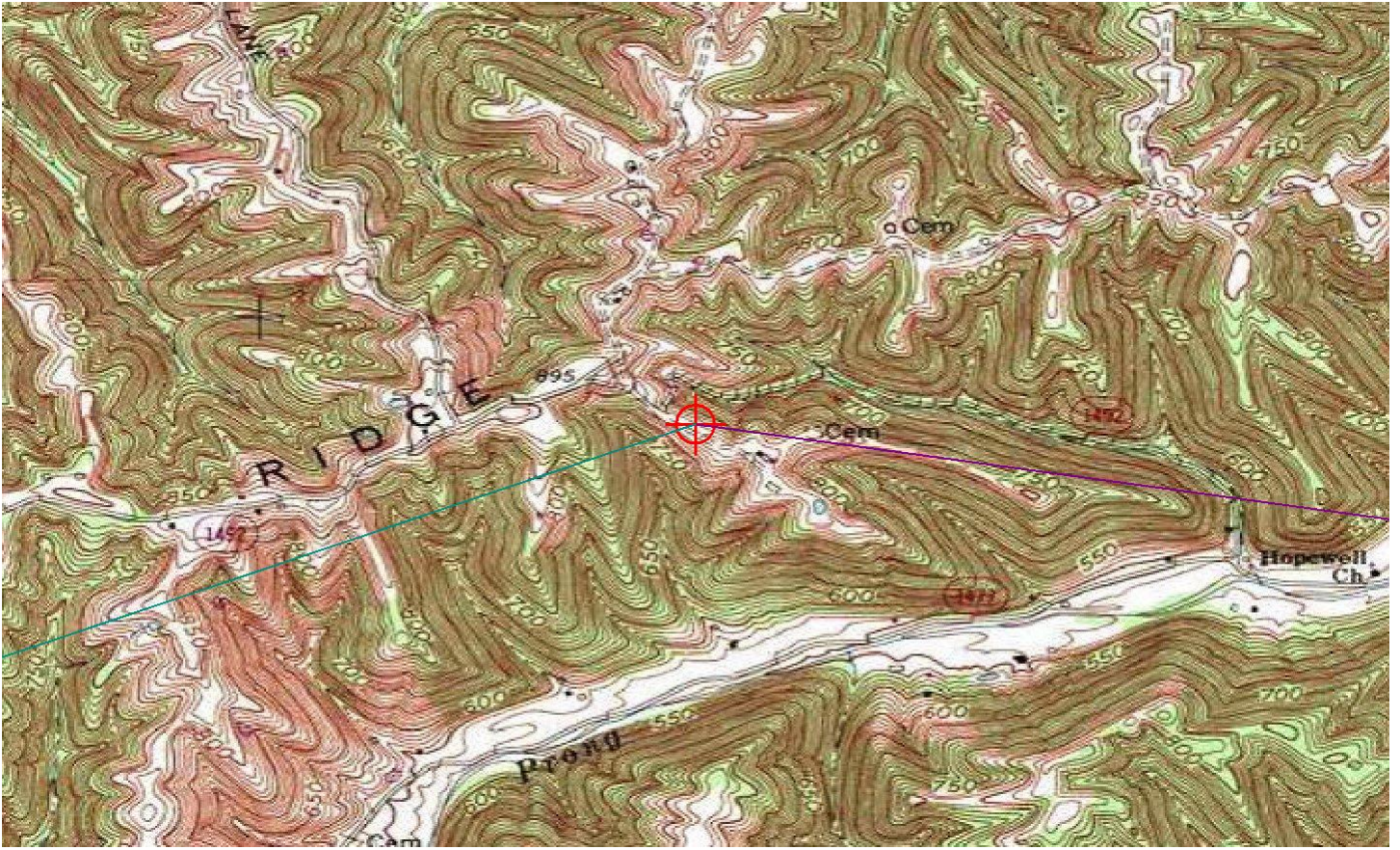
(DNE)

Attachment(s)
Frequency Data
Map(s)

cc: FCC

Frequency Data for ASN 2019-ASO-15052-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



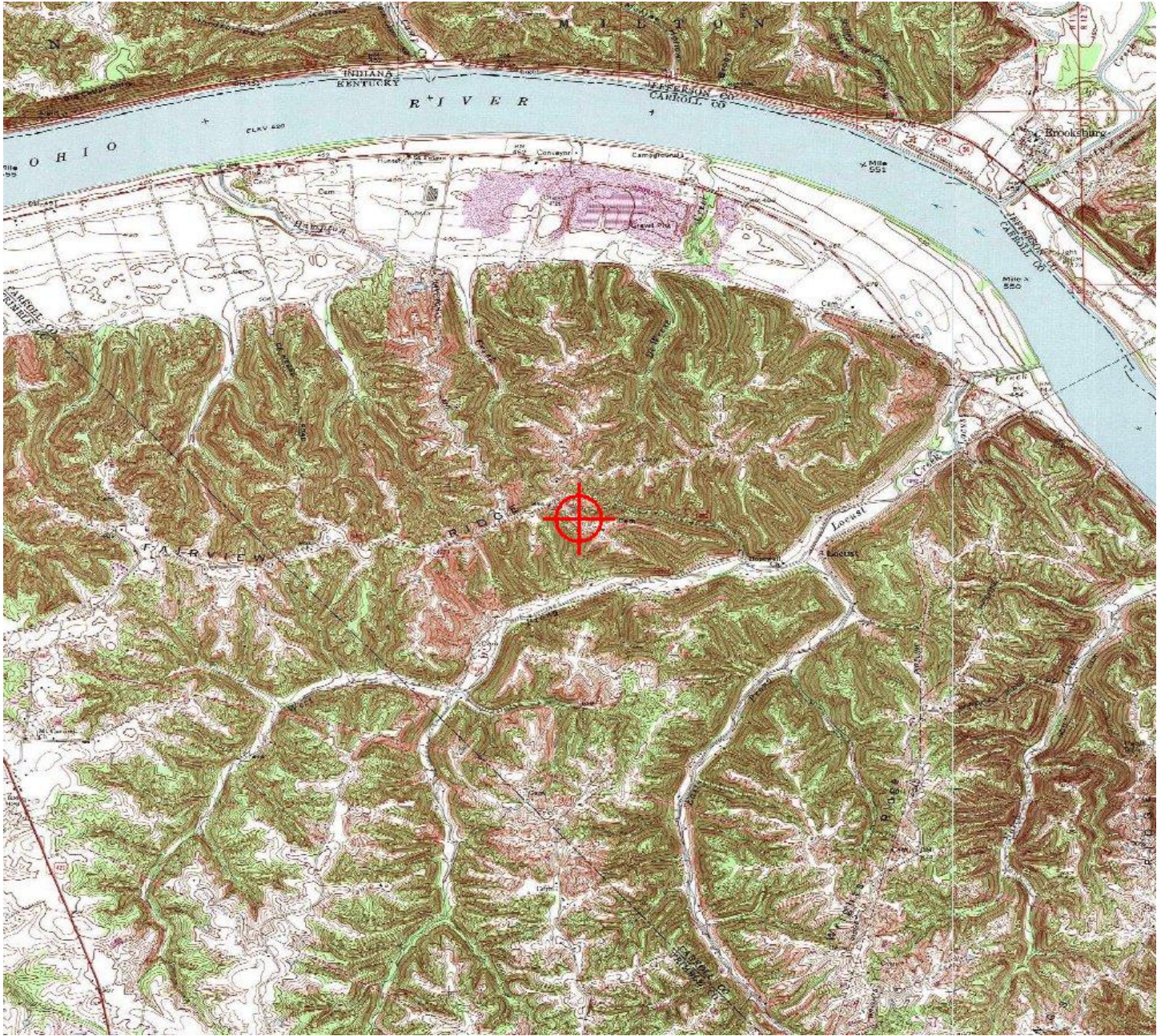


EXHIBIT F
KENTUCKY AIRPORT ZONING COMMISSION



KENTUCKY AIRPORT ZONING COMMISSION

Andy Beshear
Governor

421 Buttermilk Pike
Covington, KY 41017
www.transportation.ky.gov
859-341-2700

March 5, 2020

APPROVAL OF APPLICATION

APPLICANT:

Skyway Towers LLC
Skyway Towers LLC
3637 Madaca Lane
Tampa, FL 33618

SUBJECT: AS-021-LOU-2020-014

STRUCTURE: Antenna Tower
LOCATION: Milton, KY
COORDINATES: 38° 42' 20.66" N / 85° 16' 51.00" W
HEIGHT: 255' AGL/1090' AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct 255' AGL/ 1090' AMSL Antenna Tower near Milton, KY 38° 42' 20.66" N / 85° 16' 51.00" 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.

Medium Dual Obstruction Lighting is required.

A handwritten signature in cursive script that reads "John Houlihan".

John Houlihan
Administrator



An Equal Opportunity Employer M/F/D

EXHIBIT G
GEOTECHNICAL REPORT

GEOTECHNICAL REPORT

LOCUST

(KY-03072)

**38° 42' 20.66" N
85° 16' 51.00" W**

1002 Fairview Ridge Road,
Milton, KY 40045

Prepared For:



Prepared By:





April 14, 2020

Ms. Carrie Torrey
Skyway Towers
3637 Madaca Lane
Tampa, FL 33618

Re: Geotechnical Report – **PROPOSED 245' SELF-SUPPORT TOWER w/ 10' LIGHTNING ARRESTOR**
Site Name: **LOCUST (KY-03072)**
Site Address: 1002 Fairview Ridge Road, Milton, Carroll County, Kentucky
Coordinates: N38° 42' 20.66", W85° 16' 51.00"
POD Project No. 18-23440

Dear Ms. Torrey:

Attached is our geotechnical engineering report for the referenced project. This report contains our findings, an engineering interpretation of these findings with respect to the available project characteristics, and recommendations to aid design and construction of the tower and equipment support foundations.

We appreciate the opportunity to be of service to you on this project. If you have any questions regarding this report, please contact our office.

Cordially,

A handwritten signature in blue ink that reads 'Mark Patterson'.

Mark Patterson, P.E.
Project Engineer
License No.: KY 16300



Copies submitted: (3) Ms. Carrie Torrey

LETTER OF TRANSMITTAL

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APPENDIX

BORING LOCATION PLAN
BORING LOGS
SOIL SAMPLE CLASSIFICATION

Geotechnical Report
PROPOSED 245' SELF-SUPPORT TOWER w/ 10' LIGHTNING ARRESTOR

Site Name: **LOCUST (KY-03072)**
1002 Fairview Ridge Road, Milton, Carroll County, Kentucky
N38° 42' 20.66", W85° 16' 51.00"

1. PURPOSE AND SCOPE

The purpose of this study was to determine the general subsurface conditions at the site of the proposed tower by drilling three borings and to evaluate this data with respect to foundation concept and design for the proposed tower. Also included is an evaluation of the site with respect to potential construction problems and recommendations dealing with quality control during construction.

2. PROJECT CHARACTERISTICS

Skyway is proposing to construct a self-support tower and either an equipment shelter, slab or platform at N38° 42' 20.66", W85° 16' 51.00", 1002 Fairview Ridge Road, Milton, Carroll County, Kentucky. The site is located in an open field next to a wooded area in front of a home along Fairview Ridge Road. The surrounding area is rural with the Ohio River a few miles to the north. The proposed lease area will be 10,000 square feet and will be accessed by a short access road along an existing gravel drive from Fairview Ridge Road southeast to the site. The proposed elevation at the tower location is about EL 835 and there is over 16-feet of change in elevation across the proposed lease area. The proposed tower location is shown on the Boring Location Plan in the Appendix.

3. SUBSURFACE CONDITIONS

The subsurface conditions were explored by drilling three test borings near the base of the proposed tower. The borings were offset from the tower base due to an existing underground electric line at the tower center. The Geotechnical Soil Test Boring Logs, which are included in the Appendix, describes the materials and conditions encountered. A sheet defining the terms and symbols used on the boring logs is also included in the Appendix. The general subsurface conditions disclosed by the test borings are discussed in the following paragraphs.

According to the Kentucky Geological Survey, Kentucky Geologic Map Information Services, the site is underlain by the Upper Ordovician age Bull Fork Formation of limestone with shale. The formation had a low karst potential.

The borings encountered about 6 inches of topsoil at the existing ground surface. Below the topsoil, the borings encountered silty clay (CL) of low plasticity to auger refusal at depths ranging from 5.7 to 6.1 feet. The SPT N-values in the clay soil were between 4 to over 50 blows per foot (bpf) generally indicating a soft to hard consistency. As high as 1 foot below the ground surface, significant amounts of limestone fragments were encountered in the silty clay. Auger

refusal is defined as the depth at which the boring can no longer be advanced using the current drilling method.

The refusal material was cored in Boring B-1 from 5.9 to 25.9 feet below the ground surface. Limestone with shale seams that was hard, weathered and light gray with mud seams was encountered. The shale seams were soft and washed out of the core barrel. The recoveries of the cores were 12, 34, 34 and 53 percent with RQD values of 0, 0, 0 and 25 percent. These values generally represent very poor to fair quality rock from a foundation support viewpoint.

Observations made at the completion of soil drilling operations indicated the boring to be dry. It must be noted, however, that short-term water readings in test borings are not necessarily a reliable indication of the actual groundwater level. Furthermore, it must be emphasized that the groundwater level is not stationary but will fluctuate seasonally.

Based on the limited subsurface conditions encountered at the site and using Table 1615.1.1 of the 2018 Kentucky Building Code, the site class is considered "C". Seismic design requirements for telecommunication towers are given in section 1622 of the code. A detailed seismic study was beyond the scope of this report.

4. FOUNDATION DESIGN RECOMMENDATIONS

The following design recommendations are based on the previously described project information, the subsurface conditions encountered in our borings, the results of our laboratory testing, empirical correlations for the soil types encountered, our analyses, and our experience. If there is any change in the project criteria or structure location, you should retain us to review our recommendations so that we can determine if any modifications are required. The findings of such a review can then be presented in a supplemental report or addendum.

We recommend that the geotechnical engineer be retained to review the near-final project plans and specifications, pertaining to the geotechnical aspects of the project, prior to bidding and construction. We recommend this review to check that our assumptions and evaluations are appropriate based on the current project information provided to us, and to check that our foundation and earthwork recommendations were properly interpreted and implemented.

4.1. Proposed Tower

Our findings indicate that the proposed self-support tower can be supported on drilled piers or on a common mat foundation.

4.1.1. Drilled Piers

The following table summarizes the recommended values for use in analyzing lateral and frictional resistance for the various strata encountered at the test boring. It is important to note that these values are estimated based on the standard penetration test results and soil types and were not directly measured. The all values provided are ultimate values and appropriate factors of safety should be used in conjunction with these values. If the piers will bear deeper than about 25 feet, a deeper boring should be drilled to determine the nature of the deeper material.

Depth Below Ground Surface, feet	0 - 3	3 - 6	6 - 20	20 - 25
Ultimate Bearing Pressure (psf)		11,000	21,000	27,500
C Undrained Shear Strength, psf	500	2,000	4,000	5,000
ϕ Angle of Internal Friction degrees	0	0	0	0
Total Unit Weight, pcf	120	120	135	135
Soil Modulus Parameter k, pci	30	500	2000	2000
Passive Soil Pressure, psf/one foot of depth		1,350 + 40(D-3)	3,000 + 45(D-6)	3,350 + 45(D-20)
Side Friction, psf		400	800	1000

Note: D = Depth below ground surface (in feet) to point at which the passive pressure is calculated.

It is important that the drilled piers be installed by an experienced, competent drilled pier contractor who will be responsible for properly installing the piers in accordance with industry standards and generally accepted methods, without causing deterioration of the subgrade. The recommendations contained herein relate only to the soil-pier interaction and do not account for the structural design of the piers.

4.1.2. Mat Foundation

The tower could be supported on a common mat foundation bearing on the limestone bedrock at least 6 feet in depth can be designed using a net allowable bearing pressure of 5,000 pounds per square foot may be used. This value may be increased by 30 percent for the maximum edge pressure under transient loads. The friction value can be increased

to 0.32 between the concrete and bedrock. The passive pressures given for the drilled pier foundation may be used to resist lateral forces.

The mat must be founded only on bedrock. Soil pockets should be removed and replaced with a free draining, angular stone if needed.

It is important that the mat be designed with an adequate factor of safety with regard to overturning under the maximum design wind load.

4.2. Equipment Platform

An equipment platform may be supported on shallow piers bearing in the clay at about 3 feet and designed for a net allowable soil pressure of 2,000 pounds per square foot. The piers should bear at a depth of at least 24 inches to minimize the effects of frost action. All existing topsoil or soft natural soil should be removed beneath footings.

4.3. Equipment Slab

A concrete slab supporting the equipment must be supported on at least 6-inch layer of relatively clean granular material such as gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. This is to help distribute concentrated loads and equalize moisture conditions beneath the slab. Provided that a minimum of 6 in. of granular material is placed below the slab, a modulus of subgrade reaction (k) of 110 lbs/cu.in. can be used for design of the slab. All existing topsoil or soft natural soil should be removed beneath crushed stone layer.

4.4. Equipment Building

If an equipment building support on a slab is chosen in place of the equipment platform, it may be supported on shallow spread footings bearing in the clay soil and designed for a net allowable soil pressure of 2,000 pounds per square foot.

The footings should be at least ten inches wide. If the footings bear on soil, they should bear at a depth of at least 24 inches to minimize the effects of frost action. All existing topsoil or soft natural soil should be removed beneath footings.

Floor slabs must be supported on at least 4-inch layer of relatively clean granular material such as gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. This is to help distribute concentrated loads and equalize moisture conditions beneath the slab. Provided that a minimum of 4 in. of granular material is placed below the slab, a modulus of subgrade reaction (k) of 110 lbs/cu.in. can be used for design of the floor slabs.

4.5. Drainage and Groundwater Considerations

Good site drainage must be provided. Surface run-off water should be drained away from the tower and platform and not allowed to pond. It is recommended that all foundation concrete be placed the same day the excavation is made.




At the time of this investigation, groundwater was not encountered. Therefore, no special provisions regarding groundwater control are considered necessary for shallow foundations. Any seepage should be able to be pumped with sumps.

5. GENERAL CONSTRUCTION PROCEDURES AND RECOMMENDATIONS

It is possible that variations in subsurface conditions will be encountered during construction. Although only minor variations that can be readily evaluated and adjusted for during construction are anticipated, it is recommended the geotechnical engineer or a qualified representative be retained to perform continuous inspection and review during construction of the soils-related phases of the work. This will permit correlation between the test boring data and the actual soil conditions encountered during construction.

5.1 Drilled Piers

The following recommendations are recommended for drilled pier construction:

-  Clean the foundation bearing area so it is nearly level or suitably benched and is free of ponded water or loose material.
-  Make provisions for ground water removal from the drilled shaft excavation. While groundwater was not encountered during the soil drilling, some significant seepage may be encountered. The drilled pier contractor should have pumps on hand to remove water from the drilled pier.
-  Specify concrete slumps ranging from 4 to 7 inches for the drilled shaft construction. These slumps are recommended to fill irregularities along the sides and bottom of the drilled hole,

displace water as it is placed, and permit placement of reinforcing cages into the fluid concrete.

- ✎ Retain the geotechnical engineer to observe foundation excavations after the bottom of the hole is leveled, cleaned of any mud or extraneous material, and dewatered.
- ✎ Install a temporary protective steel casing to prevent side wall collapse, prevent excessive mud and water intrusion in the drilled shaft.
- ✎ The protective steel casing may be extracted as the concrete is placed provided a sufficient head of concrete is maintained inside the steel casing to prevent soil or water intrusion into the newly placed concrete.
- ✎ Direct the concrete placement into the drilled hole through a centering chute to reduce side flow or segregation.

5.2 Fill Compaction

All engineered fill placed adjacent to and above the tower foundation should be compacted to a dry density of at least 95 percent of the standard Proctor maximum dry density (ASTM D-698). This minimum compaction requirement should be increased to 98 percent for any fill placed below the tower foundation bearing elevation. Any fill placed beneath the tower foundation should be limited to well-graded sand and gravel or crushed stone. The compaction should be accomplished by placing the fill in about 8 inch (or less) loose lifts and mechanically compacting each lift to at least the specified minimum dry density. Field density tests should be performed on each lift as necessary to ensure that adequate moisture conditioning and compaction is being achieved.

Compaction by flooding is not considered acceptable. This method will generally not achieve the desired compaction and the large quantities of water will tend to soften the foundation soils.

5.3 Construction Dewatering

At the time of this investigation, groundwater was not encountered. Therefore, no special provisions regarding groundwater control are considered necessary for shallow foundations. Any seepage should be able to be pumped with sumps.

If groundwater is encountered in the drilled pier excavations, it may be difficult to dewater since pumping directly from the excavations could cause a deterioration of the bottom of the excavation. If the pier excavations are not dewatered, concrete should be placed by the tremie method.

6 FIELD INVESTIGATION

Three soil test borings were drilled near the base of the proposed tower. Split-spoon samples were obtained by the Standard Penetration Test (SPT) procedure (ASTM D1586) in all test borings. The borings encountered auger refusal at depths between 5.7 and 6.1 feet. A rock core of the refusal material was taken in Boring B-1 from 5.9 to 25.9 feet. The split-spoon samples were inspected and visually classified by a geotechnical engineer. Representative portions of the soil samples were sealed in glass jars and returned to our laboratory.

The boring logs are included in the Appendix along with a sheet defining the terms and symbols used on the logs and an explanation of the Standard Penetration Test (SPT) procedure. The logs present visual descriptions of the soil strata encountered, Unified System soil classifications, groundwater observations, sampling information, laboratory test results, and other pertinent field data and observations.

7 WARRANTY AND LIMITATIONS OF STUDY

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. This warranty is in lieu of all other warranties, either express or implied. POD Group is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploration and laboratory test data presented in this report.

A geotechnical study is inherently limited since the engineering recommendations are developed from information obtained from test borings, which depict subsurface conditions only at the specific locations, times and depths shown on the logs. Soil conditions at other locations may differ from those encountered in the test borings, and the passage of time may cause the soil conditions to change from those described in this report.

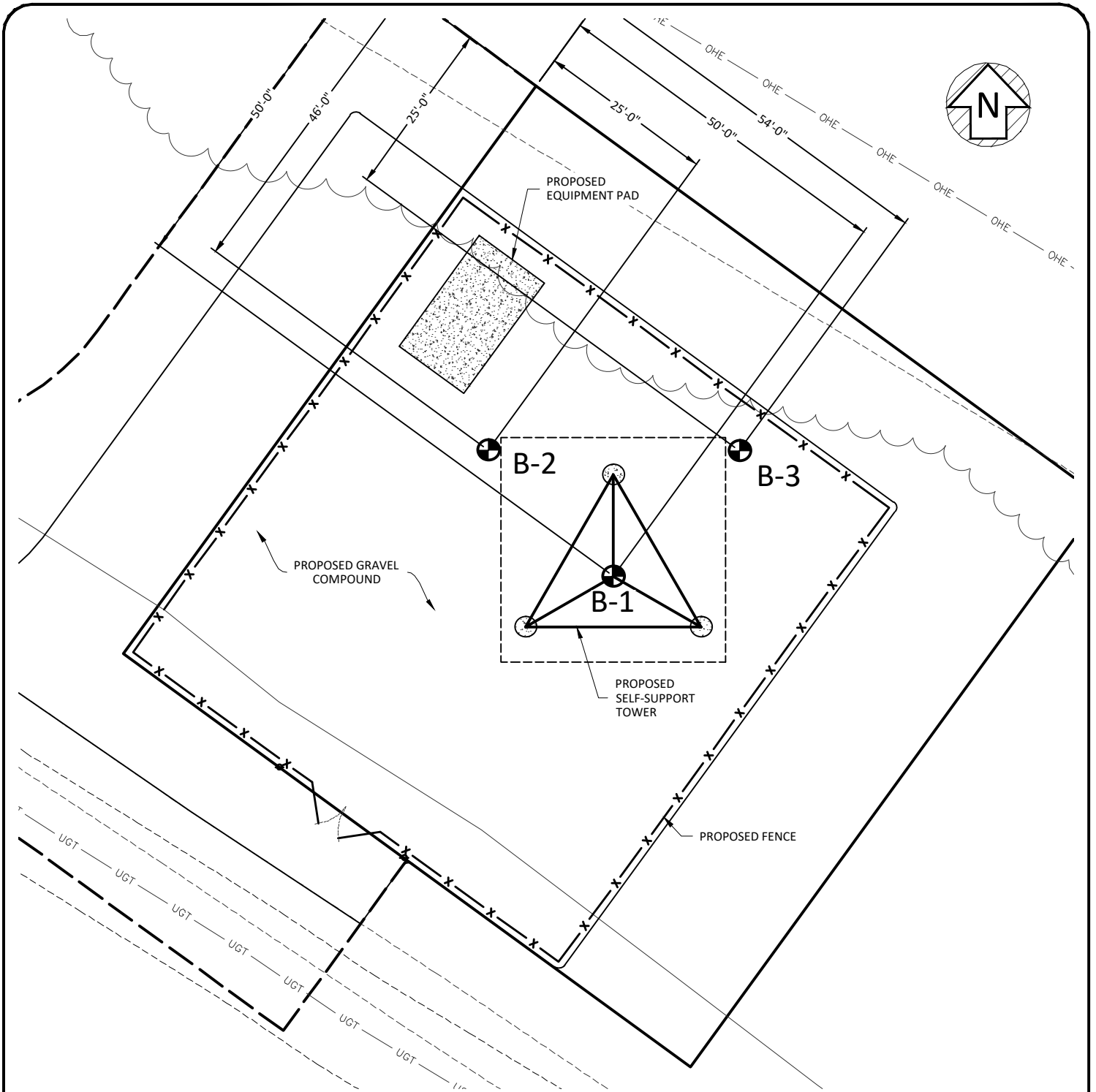
The nature and extent of variation and change in the subsurface conditions at the site may not become evident until the course of construction. Construction monitoring by the geotechnical engineer or a representative is therefore considered necessary to verify the subsurface conditions and to check that the soils connected construction phases are properly completed. If significant variations or changes are in evidence, it may then be necessary to reevaluate the recommendations of this report. Furthermore, if the project characteristics are altered significantly from those discussed in this report, if the project information contained in this report is incorrect, or if additional information becomes available, a review must be made by this office to determine if any modification in the recommendations will be required.

APPENDIX

BORING LOCATION PLAN

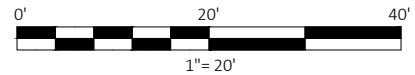
BORING LOGS

SOIL SAMPLE CLASSIFICATION



LEGEND

B-1 BORING LOCATION



SHEET TITLE: BORING LOCATION PLAN	VERIZON WIRELESS SITE NAME: LV LOCUST		SITE INFORMATION: LOCUST KY-03072 1002 FAIRVIEW RIDGE MILTON, KY 40045 CARROLL COUNTY	 4500 OLD LAGRANGE ROAD BUCKNER, KY 40010 502-437-5252
	LATITUDE: 38° 42' 20.66" N LONGITUDE: 85° 16' 51.00" W			
	TAX PARCEL NUMBER: 06-03 DEED BOOK 204, PAGE 467			
SHEET NUMBER: 1	POD NUMBER: 18-23440 DRAWN BY: POD CHECKED BY: MEP DATE: 3.20.20		OWNER INFORMATION: RWF LEGACY RANCH, INC. 242 SW 5TH STREET POMPANO BEACH, FL 33060	 3637 MACADA LANE TAMPA, FL 33618 (813) 900-6200



Boring Log

Boring: B-1

Page 1 of 1

Project: Locust

City, State

Milton, KY

Method: H.S.A.	Boring Date: 18-Mar-20	Location: Proposed Tower
Inside Diameter: 4"	Drill Rig Type: D-50 (ATV)	Hammer Type: Auto
Groundwater: DRY		Weather:
Driller: Strata Group, LLC		

Note: About 6 inches of topsoil were encountered at the existing ground surface.

From (ft)	To (ft)	Material Description	Sample Depth (ft)	Sample Type	Blows per 6-inch increment	Recovery (in)	SPT-N value	Rock Quality (RQD,%)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive Strength, (ksf)
0.5	5.9	SILTY CLAY (CL) - medium stiff, moist, brown - very stiff, dry with limestone fragments - hard	0 - 1.5	SS	0, 2, 3	12	5,					1.8
	1.5		1.5 - 3	SS	4, 6, 9	4	15,					
	4.0		4 - 5.5	SS	6, 10, 50	6	60,					
5.9	25.9	LIMESTONE with SHALE - limestone was hard, weathered, light gray with mud seams. Most of the shale was soft and washed out.	5.9-10.9	RC		12		0%				
			10.9-15.9	RC		34		0%				
			15.9-20.9	RC		34		0%				
			20.9-25.9	RC		53		25%				
		Boring Terminated at 25.9 feet										



Boring Log

Boring: B-2

Page 1 of 1

Project: Locust

City, State

Milton, KY

Method: H.S.A. **Boring Date:** 18-Mar-20 **Location:** 25' northwest of B-1

Inside Diameter: 4" **Drill Rig Type:** D-50 (ATV) **Hammer Type:** Auto

Groundwater: DRY **Weather:**

Driller: Strata Group, LLC **Note:** About 6 inches of topsoil were encountered at the existing ground surface.

From (ft)	To (ft)	Material Description	Sample Depth (ft)	Sample Type	Blows per 6-inch increment	Recovery (in)	SPT-N value	Rock Quality (RQD, %)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive Strength (ksf)
0.5	6.1	SILTY CLAY (CL) - medium stiff, moist, brown	0 - 1.5	SS	0, 2, 2	12	4,					2.2
	1.5	- with limestone fragments	1.5 - 3	SS	5, 5, 7	5	12,					
	4.0	- hard	4 - 5.5	SS	7, 10, 21	8	31,					
Boring Terminated at 6.1 feet												



Boring Log

Boring: B-3

Page 1 of 1

Project: Locust

City, State

Milton, KY

Method: H.S.A. **Boring Date:** 18-Mar-20 **Location:** 25' northeast of B-1

Inside Diameter: 4" **Drill Rig Type:** D-50 (ATV) **Hammer Type:** Auto

Groundwater: DRY **Weather:**

Driller: Strata Group, LLC **Note:** About 6 inches of topsoil were encountered at the existing ground surface.

From (ft)	To (ft)	Material Description	Sample Depth (ft)	Sample Type	Blows per 6-inch increment	Recovery (in)	SPT-N value	Rock Quality (RQD, %)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive Strength, (ksf)
0.5	5.7	SILTY CLAY (CL) - medium stiff, moist, brown	0 - 1.5	SS	0, 3, 2	8	5,					1.8
	1.5	- stiff with limestone fragments	1.5 - 3	SS	4, 5, 6	5	11,					
	4.0	- very stiff	4 - 5.5	SS	7, 8, 16	5	24,					
		Boring Terminated at 5.7 feet										

SOIL SAMPLE CLASSIFICATION

FINE AND COARSE GRAINED SOIL INFORMATION						
COARSE GRAINED SOILS (SANDS & GRAVELS)		FINE GRAINED SOILS (SILTS & CLAYS)			PARTICLE SIZE	
N	Relative Density	N	Consistency	Qu, KSF Estimated		
0-4	Very Loose	0-1	Very Soft	0-0.5	Boulders	Greater than 300 mm (12 in)
5-10	Loose	2-4	Soft	0.5-1	Cobbles	75 mm to 300 mm (3 to 12 in)
11-20	Firm	5-8	Firm	1-2	Gravel	4.74 mm to 75 mm (3/16 to 3 in)
21-30	Very Firm	9-15	Stiff	2-4	Coarse Sand	2 mm to 4.75 mm
31-50	Dense	16-30	Very Stiff	4-8	Medium Sand	0.425 mm to 2 mm
Over 50	Very Dense	Over 31	Hard	8+	Fine Sand	0.075 mm to 0.425 mm
					Silts & Clays	Less than 0.075 mm

The **STANDARD PENETRATION TEST** as defined by ASTM D 1586 is a method to obtain a disturbed soil sample for examination and testing and to obtain relative density and consistency information. A standard 1.4-inch I.D./2-inch O.D. split-barrel sampler is driven three 6-inch increments with a 140 lb. hammer falling 30 inches. The hammer can either be of a trip, free-fall design, or actuated by a rope and cathead. The blow counts required to drive the sampler the final two increments are added together and designate the N-value defined in the above tables.

ROCK PROPERTIES			
ROCK QUALITY DESIGNATION (RQD)		ROCK HARDNESS	
Percent RQD	Quality		
0-25	Very Poor	Very Hard:	Rock can be broken by heavy hammer blows.
25-50	Poor	Hard:	Rock cannot be broken by thumb pressure, but can be broken by moderate hammer blows.
50-75	Fair	Moderately Hard:	Small pieces can be broken off along sharp edges by considerable hard thumb pressure; can be broken with light hammer blows.
75-90	Good	Soft:	Rock is coherent but breaks very easily with thumb pressure at sharp edges and crumbles with firm hand pressure.
90-100	Excellent	Very Soft:	Rock disintegrates or easily compresses when touched; can be hard to very hard soil.

Recovery =	$\frac{\text{Length of Rock Core Recovered}}{\text{Length of Core Run}} \times 100$	63 REC	BQ	1-7/16
		NQ	NQ	1-7/8
RQD =	$\frac{\text{Sum of 4 in. and longer Rock Pieces Recovered}}{\text{Length of Core Run}} \times 100$	43 RQD	HQ	2-1/2

SYMBOLS

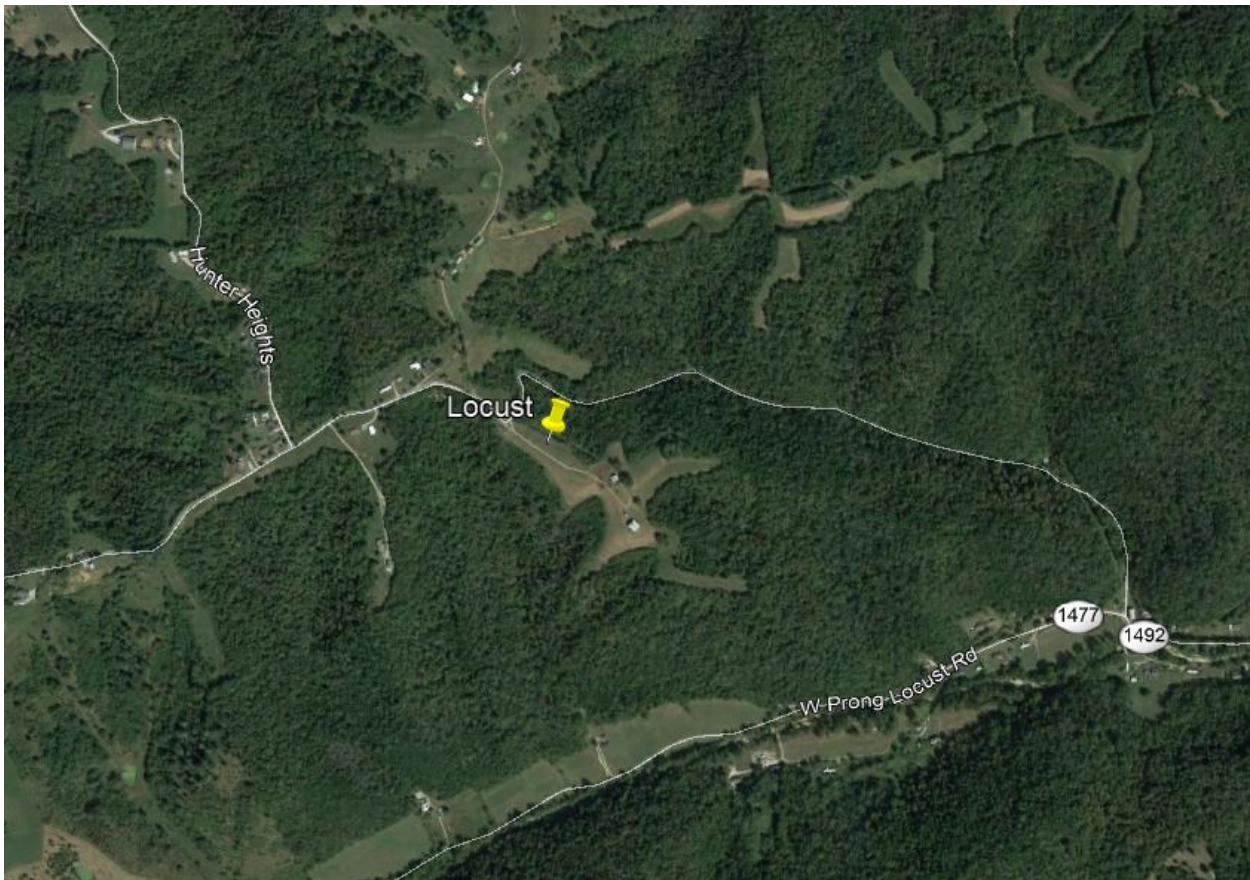
KEY TO MATERIAL TYPES		SOIL PROPERTY SYMBOLS	
SOILS		ROCKS	
Group Symbols	Typical Names	Symbols	Typical Names
GW	Well graded gravel - sand mixture, little or no fines		Limestone or Dolomite
GP	Poorly graded gravels or gravel - sand mixture, little or no fines		Shale
GM	Silty gravels, gravel - sand silt mixtures		Sandstone
GC	Clayey gravels, gravel - sand - clay mixtures		
SW	Well graded sands, gravelly sands, little or no fines		
SP	Poorly graded sands or gravelly sands, little or no fines		
SM	Silty sands, sand - silt mixtures		
SC	Clayey sands, sand - clay mixtures		
ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands, or clayey silts		
OL	Organic silts and organic silty clays of low plasticity		
CL	Inorganic clays of low range plasticity, gravelly clays, sandy clays, silty clays, lean clays		
MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts		
CH	Inorganic clays of high range plasticity, fat clays		

SAMPLING SYMBOLS	
SS	Split Spoon Sample
	Relatively Undisturbed Sample
	Rock Core Sample

EXHIBIT H
DIRECTIONS TO WCF SITE

Driving Directions to Proposed Tower Site

1. Beginning at 440 Main Street Carrollton, KY 41008, head south on Court Street toward Highland Ave and travel approximately 217 feet.
2. Turn right onto US-42 / Highland Ave and travel approximately 1.7 miles.
3. Continue straight onto KY-36 W and travel approximately 2.8 miles.
4. Turn left onto State Hwy 1492 and travel approximately 1.7 miles.
5. Take a slight right onto Fairview Ridge Road and travel approximately 1 mile.
6. The site is on the left at 1002 Fairview Ridge, Milton, KY 40045.
7. The site coordinates are:
 - a. North 38 deg 42 min 20.66 sec
 - b. West 85 deg 16 min 51.00 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

Prepared by and Return to:

Skyway Towers, LLC
3637 Madaca Lane
Tampa, FL 33618
Attn: Property Management


Arlene K EVERS

State: Kentucky
County: Carroll
Parcel ID: Map 06-03

MEMORANDUM OF AGREEMENT

This Memorandum of Agreement is entered into on this 18th day of January, 2019, by and between RWF Legacy Ranch, Inc., a Florida corporation, having a mailing address of 242 SW 5th Street Pompano Beach, Florida 33060 (hereinafter referred to as "**Landlord**"), and Skyway Towers, LLC, a Delaware limited liability company, having a mailing address of 3637 Madaca Lane, Tampa, Florida 33618 (hereinafter referred to as "**Tenant**").

1. Landlord and Tenant entered into a certain Option and Lease Agreement ("**Agreement**") on the 18th day of January, 2019, for the purpose of installing, operating, and maintaining a Communications Tower Facility and other improvements. The property is more fully described in **Exhibit 1** attached hereto and made a part hereof (the "**Property**"). All of the foregoing is set forth in the Agreement.
2. The initial term will be five (5) years ("**Initial Term**") commencing on the Commencement Date, with seven (7) successive five (5) year renewal options.
3. In the event Landlord receives a bona fide written offer to sell, assign or transfer Landlord's interest under the Agreement and/or the Landlord's rights to receive rents under the terms of the Agreement (the "**Rental Stream Offer**"), Tenant retains a right of first refusal to match the Rental Stream Offer.
4. This Memorandum of Agreement is not intended to amend or modify, and shall not be deemed or construed as amending or modifying, any of the terms, conditions or provisions of the Agreement, all of which are hereby ratified and affirmed.
5. In the event of a conflict between the provisions of this Memorandum of Agreement and the provisions of the Agreement, the provisions of the Agreement shall control.
6. The Agreement shall be binding upon and inure to the benefit of the parties and their respective heirs, successors, and assigns, subject to the provisions of the Agreement.


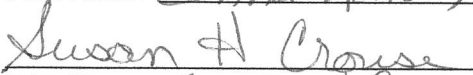


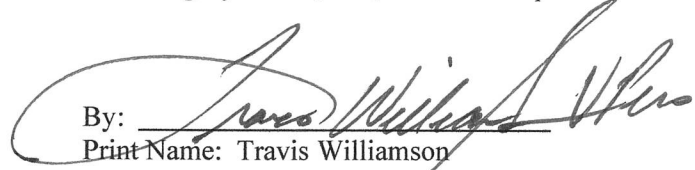
IN WITNESS WHEREOF, the parties have executed this Memorandum of Agreement as of the day and year first above written.

WITNESSES:

"LANDLORD"

RWF Legacy Ranch, Inc., a Florida corporation


Print Name: Connor Hendryx

Print Name: SUSAN H. CROUSE

By: 
Print Name: Travis Williamson
Its: Vice President
Date: 1/7/2019

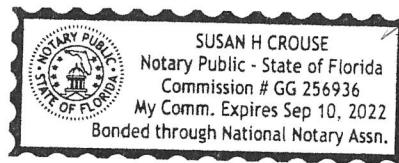
LANDLORD ACKNOWLEDGEMENT


STATE OF Florida)
COUNTY OF Broward) ss:

I CERTIFY that on January 7th, 2019, Travis Williamson personally came before me and acknowledged under oath to my satisfaction, that he:

- (a) is the President of RWF Legacy Ranch, Inc., a Florida corporation, the corporation named in the attached instrument;
- (b) is authorized to execute this instrument on behalf of the corporation; and
- (c) executed the instrument as the act of the corporation.

[Affix Notary Seal]




Notary Public State of Florida
Print Name: SUSAN H. CROUSE
My Commission Expires: Sep 10, 2020

[TENANT SIGNATURES AND ACKNOWLEDGEMENT FOLLOW ON NEXT PAGE]

WITNESSES:

"TENANT"

Skyway Towers, LLC,
a Delaware limited liability company

Katrina M. Carson
Print Name: KATRINA M. CARSON

Ariene Uvres
Print Name: Ariene Uvres

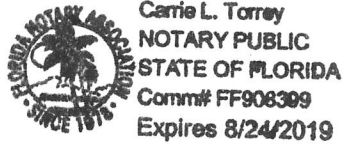
By: Scott M. Behuniak
Print Name: Scott M. Behuniak
Its: President / COO
Date: 1-18-19

TENANT ACKNOWLEDGEMENT

STATE OF FLORIDA)
) ss:
COUNTY OF HILLSBOROUGH)

The foregoing instrument was acknowledged before me this 18th day of January, 2019, by Scott M. Behuniak, as President / COO of Skyway Towers, LLC, a Delaware limited liability company, on behalf of the company, who is personally known.

[Affix Notary Seal]



Carrie L. Torrey
Notary Public State of Florida
Print Name: Carrie L. Torrey
My Commission Expires: 8/24/19

**EXHIBIT 1
DESCRIPTION OF THE PROPERTY**

The Property is situated in Carroll County in the State of Kentucky, and is described as follows:

Parcel ID: Map 06-03

One hundred and thirty-five acres of land, bounded on the north by the lands of Ben Donathan, the heirs of R. S. Gross, deceased, and L. D. Kiper, on the east by the lands of James Thompson and J. E. Young, on the south by the lands of Louis Cribbins, and on the west by the lands formerly owned by John Morrow.

Being the same property conveyed to Lena Mae Edwards from Lois Faye Garrett and Porter Garrett, her husband; Linda Carroll Johnson and Richard Johnson, her husband; Gary Ray Edwards and Vicki Lynn Edwards, his wife; and, Vivian K. Imel and Kim Imel, her husband, by Quitclaim Deed dated April 4, 1983, of record in Deed Book 95, Page 449. Lena Mae Edwards died November 17, 2016, and pursuant to her Last Will and Testament of record in Will Book J22, Page 485, Gary Ray Edwards, Lois Fay Edwards, Linda Carroll Johnson, and Vivian K. Imel (now Vivian K. Ebley), were devised the above described property. See also Affidavit for Estate of Lena Mae Edwards recorded in Deed Book 204, Page 281-283. All documents are recorded in the Office of the Carroll County Court Clerk.

Note:

This Exhibit may be supplemented or replaced by full legal description based upon a land survey of the Property once a land survey is received by Tenant.

DOCUMENT NO: 96198
RECORDED: February 07, 2019 02:46:00 PM
TOTAL FEES: \$20.00
COUNTY CLERK: ALICE W. MARSH
DEPUTY CLERK: DANIELLE KINMAN
COUNTY: CARROLL COUNTY
BOOK: L 6 PAGES: 607 - 610

EXHIBIT J
NOTIFICATION LISTING

Locust – Notice List

RWF LEGACY RANCH INC
242 SW 5TH STREET
POMPANO BEACH, FL 33060

DERMON TIMOTHY W
86 BOYKIN LAKES LOOP
PIKE ROAD, AL 36064

BAYLES WILLIAM
532 W PRONG LOCUST RD
MILTON, KY 40045

WENTWORTH MARY
828 W PRONG LOCUST
MILTON, KY 40045

YOCUM REALTY LLC
107 HWY 42W
CARROLLTON, KY 41008

JOHNSON ALEXANDER S & GRIMES RACHEL
1312 W PRONG LOCUST
MILTON, KY 40045

MCDOLE GEORGE WILLIAM LEE
1344 FAIRVIEW RIDGE
MILTON, KY 40045

SNELL MARK KEVIN & TINA M
1148 FAIRVIEW RIDGE
MILTON, KY 40045

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: Locust**

Dear Landowner:

Skyway Towers, LLC, a Delaware limited liability company, and Celco Partnership, a Delaware General Partnership d/b/a Verizon Wireless have filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 1002 Fairview Ridge, Milton, KY 40045 (38° 42' 20.66" North latitude, 85° 16' 51.00" West longitude). The proposed facility will include a 245-foot tall antenna tower, plus a 10-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

This notice is being sent to you because the County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous 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 2020-00139 in any correspondence sent in connection with this matter.

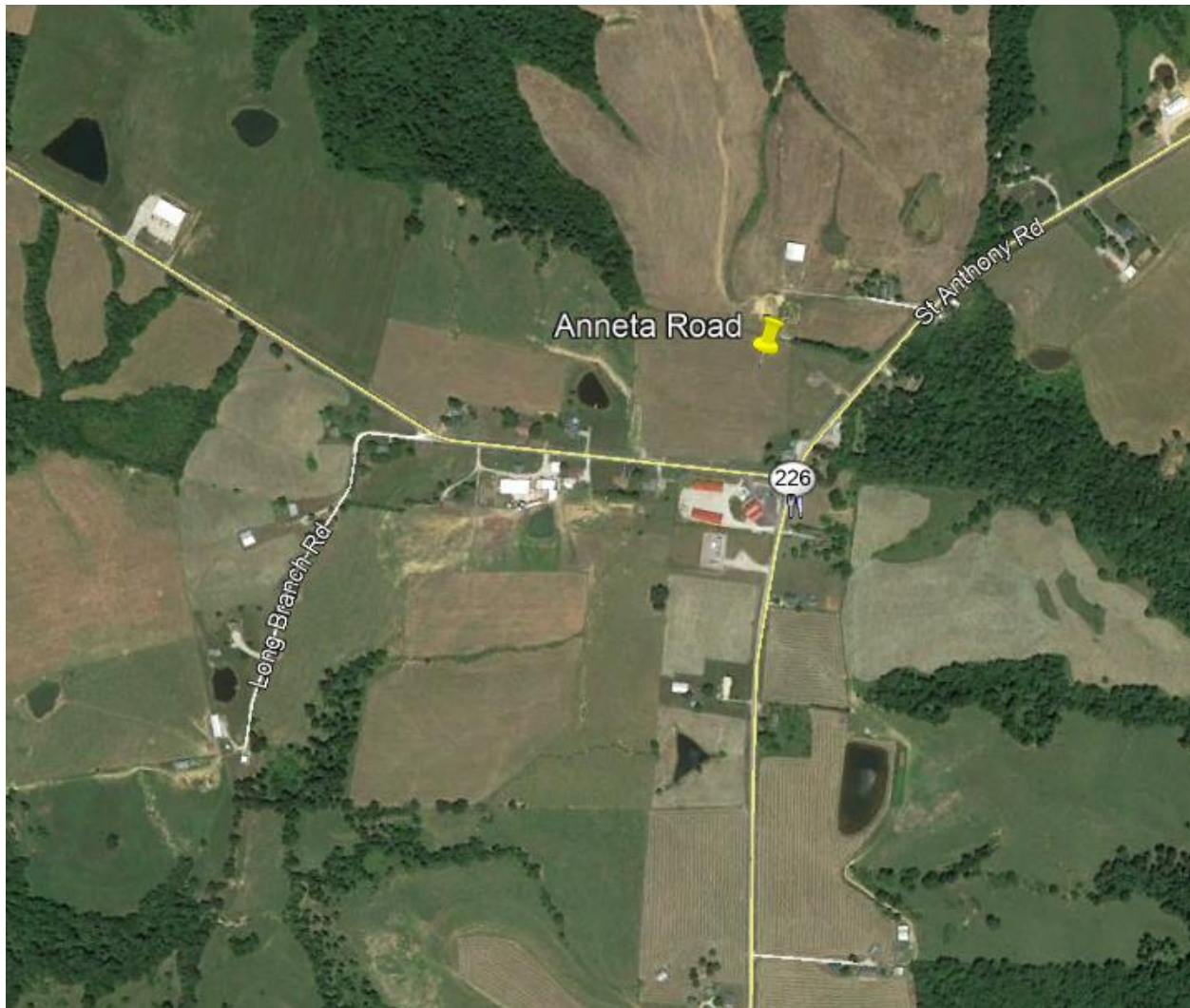
We have attached a map showing the site location for the proposed tower. Applicants' radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. 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 Applicant

enclosure


Driving Directions to Proposed Tower Site

1. Beginning at 10 Public Square, Leitchfield, KY 42754, head south on Public Square toward South Main Street and travel approximately 108 feet.
2. Follow Public Square as it turns slightly right and become South Main Street. Travel approximately 1 mile.
3. Continue onto KY-259 S / Anneta Road and travel approximately 6 miles.
4. The site is on the left at 7030 Anneta Road, Leitchfield, KY 42754.
5. The site coordinates are:
 - a. North 37 deg 24 min 17.81 sec
 - b. West 86° deg 14 min 17.13 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

POD
POWER OF DESIGN
1349 BLUEGRASS PARKWAY
LEXINGTON, KY 40509
502-437-5252

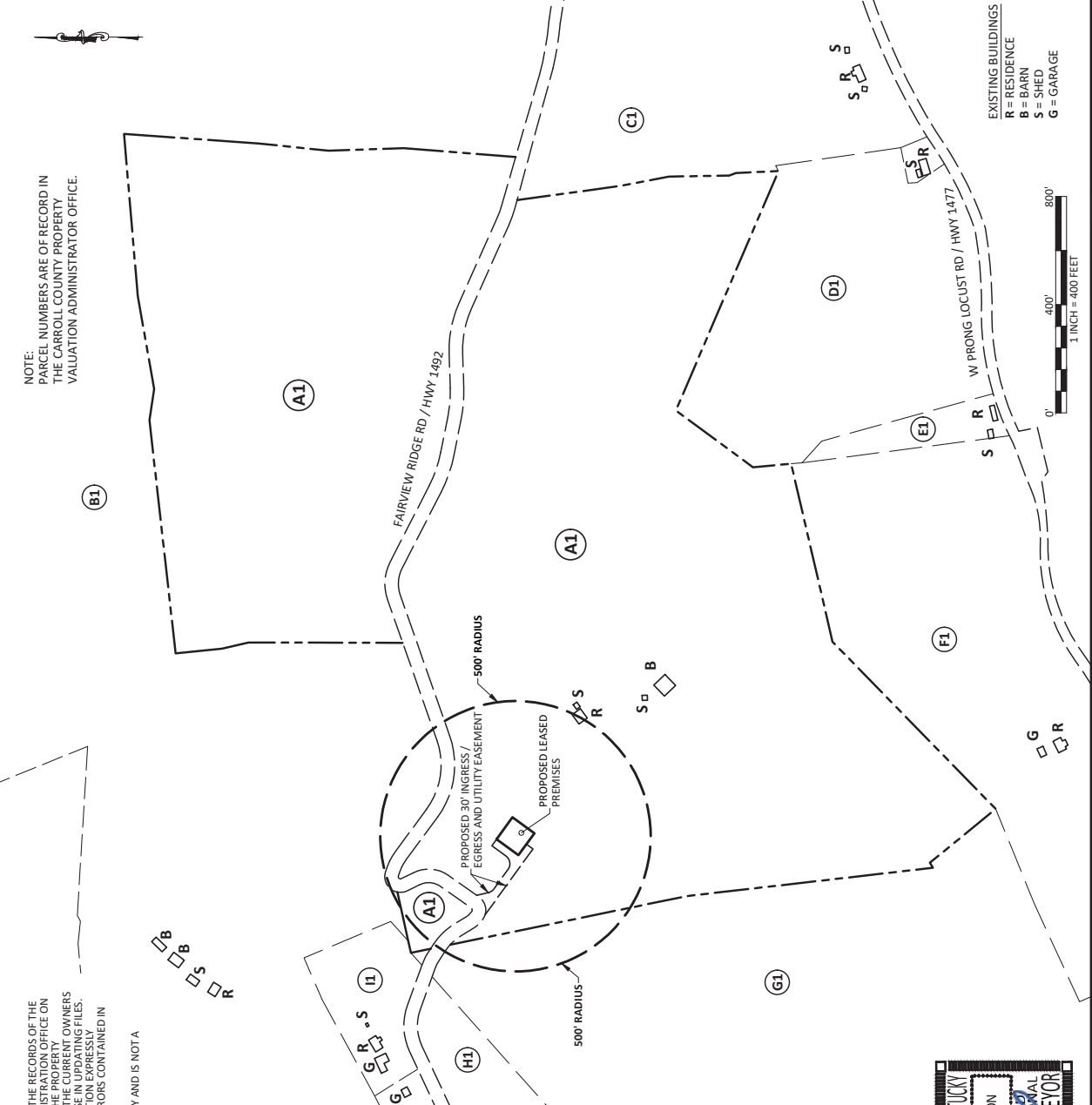


SKYWAY TOWERS
3837 MADACALANE
MILTON, KY 40045
(613) 260-6200

REV.	DATE	DESCRIPTION
A	03.11.20	PRELIM ISSUE
0	03.18.20	ISSUED AS FINAL

SITE INFORMATION:
LOCUST
 1002 FAIRVIEW RIDGE
 MILTON, KY 40045
 CARROLL COUNTY
TAX PARCEL NUMBER:
 06-03
PROPERTY OWNERS:
 RWF LEGACY RANCH, INC.
 242 SW 5TH STREET
 POMPANO BEACH, FL 33060
SOURCE OF TITLE:
 BOOK 204, PAGE 467
SKYWAY SITE NUMBER:
 KY-03072
VERIZON SITE NAME:
 LV LOCUST
POD NUMBER: 18-23438
DRAWN BY: JRS
CHECKED BY: MEP
SUBMITTED DATE: 03.11.20
PLAT DATE: 03.11.20

SHEET TITLE:
500' RADIUS AND ABUTTERS MAP
SHEET NUMBER: (1 page)
B-2



- GENERAL NOTE:**
- ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE CARROLL COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON JANUARY 25, 2019 AND REVERIFIED ON MARCH 17, 2020. THE PROPERTY OWNERS AND ADDRESSES DUE TO THE INACCURACIES AND TIME Lapse IN UPDATING FILES, POD AND THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIMS ANY WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES.
 - THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
 - NOT FOR RECORDING OR PROPERTY TRANSFER.
- (A1)** PARCEL ID: 06-03
RWF LEGACY RANCH INC
242 SW 5TH STREET
POMPANO BEACH, FL 33060
 - (B1)** PARCEL ID: 06-01
DERMON TIMOTHY W
86 BOYKIN LAKES LOOP
PIKE ROAD AL 36064
 - (C1)** PARCEL ID: 06-16-02-01 & 06-16-02
BAYLES WILLIAM
532 W PRONG LOCUST RD
MILTON, KY 40045
 - (D1)** PARCEL ID: 06-14-02
BAYLES WILLIAM
532 W PRONG LOCUST RD
MILTON, KY 40045
 - (E1)** PARCEL ID: 06-14-01
WENTWORTH MARY
828 W PRONG LOCUST
MILTON, KY 40045
 - (F1)** PARCEL ID: 06-12
TODD GUY LLC
107 HWY 62N
CARROLLTON, KY 41008
 - (G1)** PARCEL ID: 03-15
JOHNSON ALEXANDER S & GRIMES RACHEL
1312 W PRONG LOCUST
MILTON, KY 40045
 - (H1)** PARCEL ID: 03-09-02
MCDOLE GEORGE WILLIAM LEE
1344 FAIRVIEW RIDGE
MILTON, KY 40045
 - (I1)** PARCEL ID: 03-09-03
SMITH TERRY & TINA M
1348 FAIRVIEW RIDGE
MILTON, KY 40045
- CERTIFICATE**
 I HEREBY CERTIFY THAT THIS EXHIBIT
 PERTAINING TO THE ADJOINING PROPERTY
 OWNERS PER PVA RECORDS WAS PREPARED
 UNDER MY DIRECT SUPERVISION. NO BOUNDARY
 SURVEYING OF ANY KIND HAS BEEN PERFORMED
 FOR THIS EXHIBIT.

Mark Patterson
MARK PATTERSON, PLS #3136

DATE: 04/20/2020



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

Harold Tomlinson
County Judge Executive
440 Main Street
Carrollton, KY 41008

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2020-00139
Site Name: Locust

Dear Judge/Executive:

Skyway Towers, LLC, a Delaware limited liability company, and Cellco Partnership, a Delaware General Partnership d/b/a Verizon Wireless has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 1002 Fairview Ridge, Milton, KY 40045 (38° 42' 20.66" North latitude, 85° 16' 51.00" West longitude). The proposed facility will include a 245-foot tall antenna tower, plus a 10-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

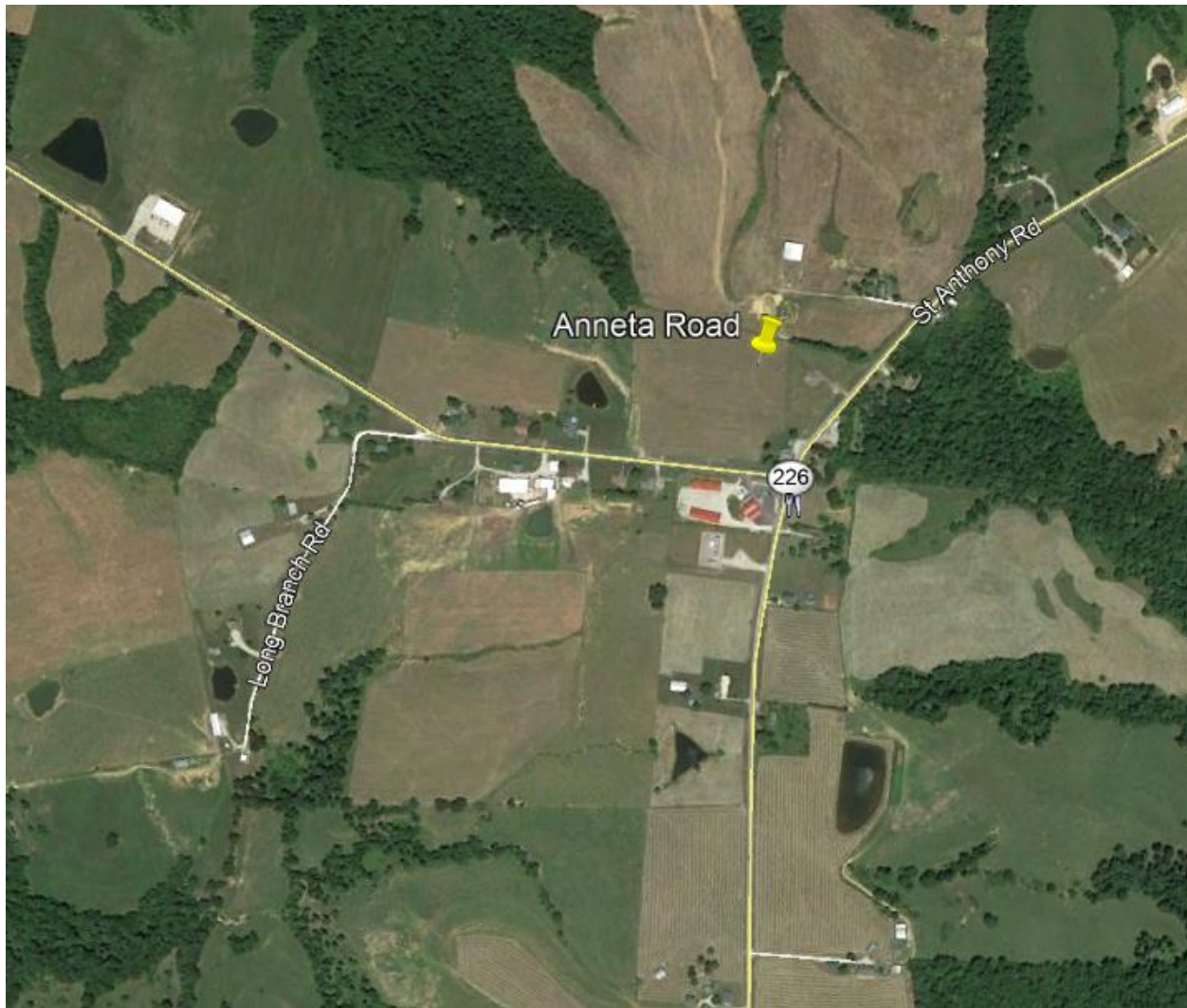
You have a right to submit comments to the PSC or to request intervention in the PSC's proceedings on the application. You may contact the PSC at: Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2020-00139 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. Applicants' 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 Applicant
enclosures

Driving Directions to Proposed Tower Site

1. Beginning at 10 Public Square, Leitchfield, KY 42754, head south on Public Square toward South Main Street and travel approximately 108 feet.
2. Follow Public Square as it turns slightly right and become South Main Street. Travel approximately 1 mile.
3. Continue onto KY-259 S / Anneta Road and travel approximately 6 miles.
4. The site is on the left at 7030 Anneta Road, Leitchfield, KY 42754.
5. The site coordinates are:
 - a. North 37 deg 24 min 17.81 sec
 - b. West 86° deg 14 min 17.13 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



11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40228
502-437-5252

PREPARED FOR:



3837 MADACALANE
MILTON, KY 40045
(613) 260-6200

REV.	DATE	DESCRIPTION
A	03.11.20	PRELIM ISSUE
0	03.18.20	ISSUED AS FINAL

SITE INFORMATION:
LOCUST
 1002 FAIRVIEW RIDGE
 MILTON, KY 40045
 CARROLL COUNTY
TAX PARCEL NUMBER:
 06-03
PROPERTY OWNERS:
 RWF LEGACY RANCH, INC.
 242 SW 5TH STREET
 POMPANO BEACH, FL 33060
SOURCE OF TITLE:
 BOOK 204, PAGE 467

SKYWAY SITE NUMBER:
 KY-03072

VERIZON SITE NAME:
 LV LOCUST

POD NUMBER: 18-23438
DRAWN BY: JRS
CHECKED BY: MEP
SCALE DATE: 03.11.20
PLAT DATE: 03.11.20

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

SHEET NUMBER: (1 page)
B-2

NOTE:
 PARCEL NUMBERS ARE OF RECORD IN
 THE CARROLL COUNTY PROPERTY
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(A1) PARCEL ID: 06-03
 RWF LEGACY RANCH INC
 242 SW 5TH STREET
 POMPANO BEACH, FL 33060

(B1) PARCEL ID: 06-01
 DERMON TIMOTHY W
 86 BOYKIN LAKES LOOP
 PIKE ROAD AL 36064

(C1) PARCEL ID: 06-16-02-01 & 06-16-02
 BAYLES WILLIAM
 532 W PRONG LOCUST RD
 MILTON, KY 40045

(D1) PARCEL ID: 06-14-02
 BAYLES WILLIAM
 532 W PRONG LOCUST RD
 MILTON, KY 40045

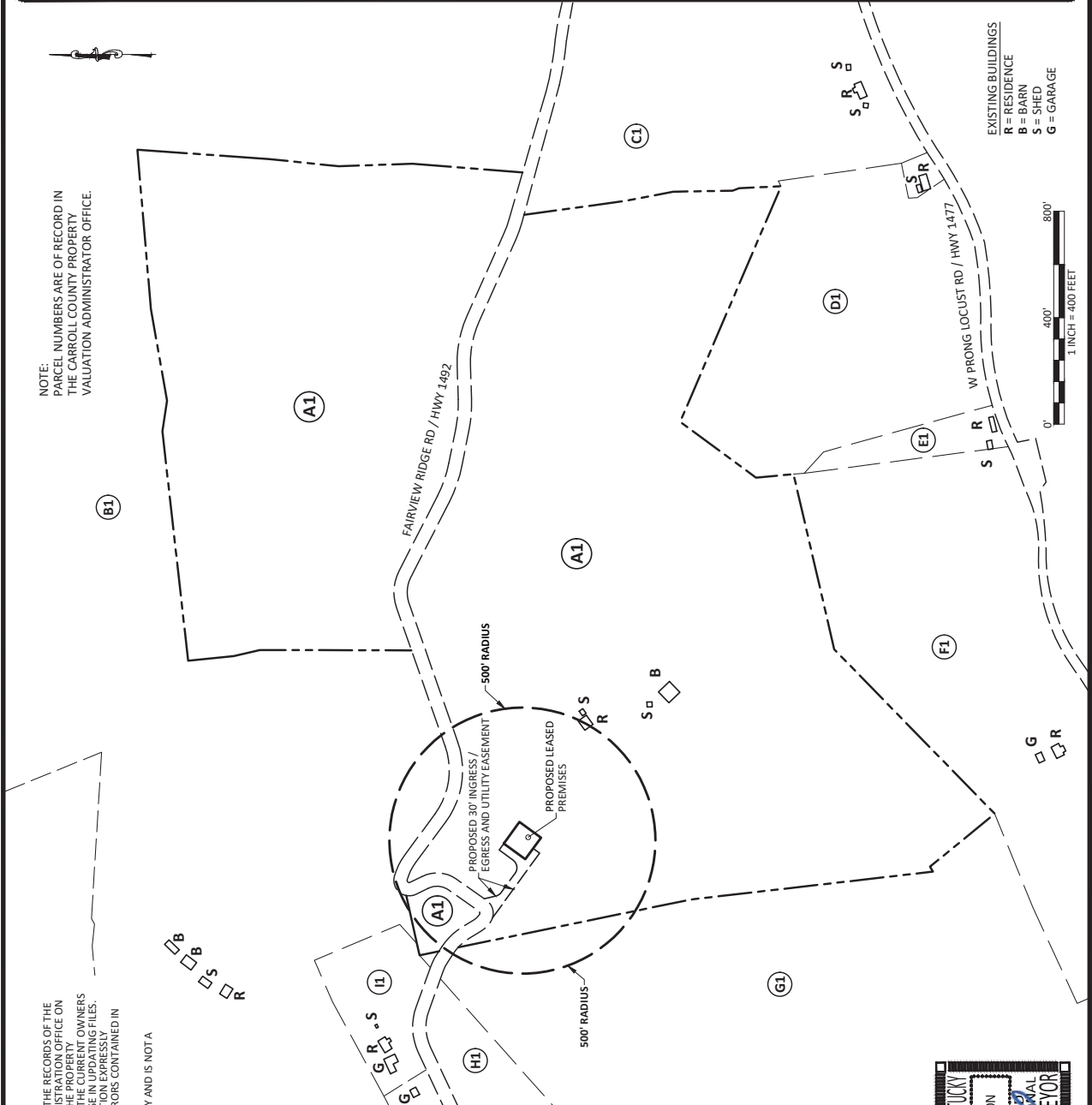
(E1) PARCEL ID: 06-14-01
 WENTWORTH MARY
 828 W PRONG LOCUST
 MILTON, KY 40045

(F1) PARCEL ID: 06-12
 WENTWORTH MARY LLC
 107 HWY 42N
 CARROLLTON, KY 41008

(G1) PARCEL ID: 03-15
 JOHNSON ALEXANDER S & GRIMES RACHEL
 1312 W PRONG LOCUST
 MILTON, KY 40045

(H1) PARCEL ID: 03-09-02
 MCDOLE GEORGE WILLIAM LEE
 1344 FAIRVIEW RIDGE
 MILTON, KY 40045

(I1) PARCEL ID: 03-09-03
 SHAW PATRICIA & TINA M
 1148 FAIRVIEW RIDGE
 MILTON, KY 40045



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

Mark E. Patterson
 MARK PATTERSON, PLS #3136
 DATE 04/20/2020

**EXHIBIT M
COPY OF POSTED NOTICES
AND NEWSPAPER NOTICE ADVERTISEMENT**



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

Harold Tomlinson
County Judge Executive
440 Main Street
Carrollton, KY 41008

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2020-00139
Site Name: Locust

Dear Judge/Executive:

Skyway Towers, LLC, a Delaware limited liability company, and Cellco Partnership, a Delaware General Partnership d/b/a Verizon Wireless has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 1002 Fairview Ridge, Milton, KY 40045 (38° 42' 20.66" North latitude, 85° 16' 51.00" West longitude). The proposed facility will include a 245-foot tall antenna tower, plus a 10-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

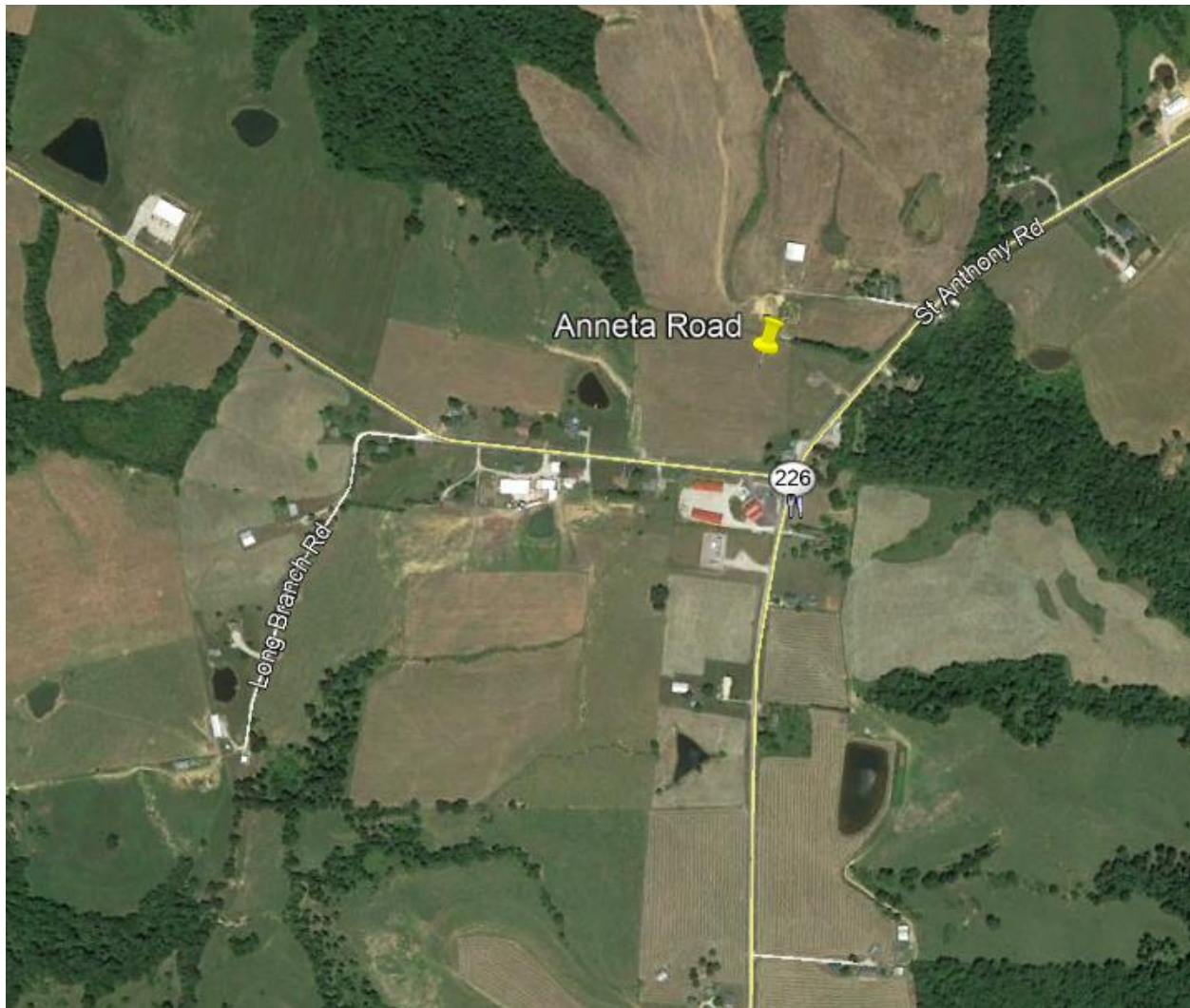
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Sincerely,
David A. Pike
Attorney for Applicant
enclosures

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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

PREPARED BY:



POD
POWER OF DESIGN
13490 BLUEBERRY PARKWAY
LOUISVILLE, KY 40243
502-437-5252

PREPARED FOR:



SKYWAY TOWERS
3837 MADACALANE
MILTON, KY 40045
(613) 260-6200

EXHIBIT	
REV.	DESCRIPTION
A	03.11.20 PRELIM ISSUE
0	03.18.20 ISSUED AS FINAL

SITE INFORMATION:

LOCUST
1002 FAIRVIEW RIDGE
MILTON, KY 40045
CARROLL COUNTY

TAX PARCEL NUMBER:
06-03

PROPERTY OWNERS:
RWF LEGACY RANCH, INC.
242 SW 5TH STREET
POMPANO BEACH, FL 33060

SOURCE OF TITLE:
BOOK 204, PAGE 467

SKYWAY SITE NUMBER:
KY-03072

VERIZON SITE NAME:
LV LOCUST

POD NUMBER:
18-23438

DRAWN BY:
JRS

CHECKED BY:
MEP

SUBMITTED DATE:
03.11.20

PLAT DATE:
03.11.20

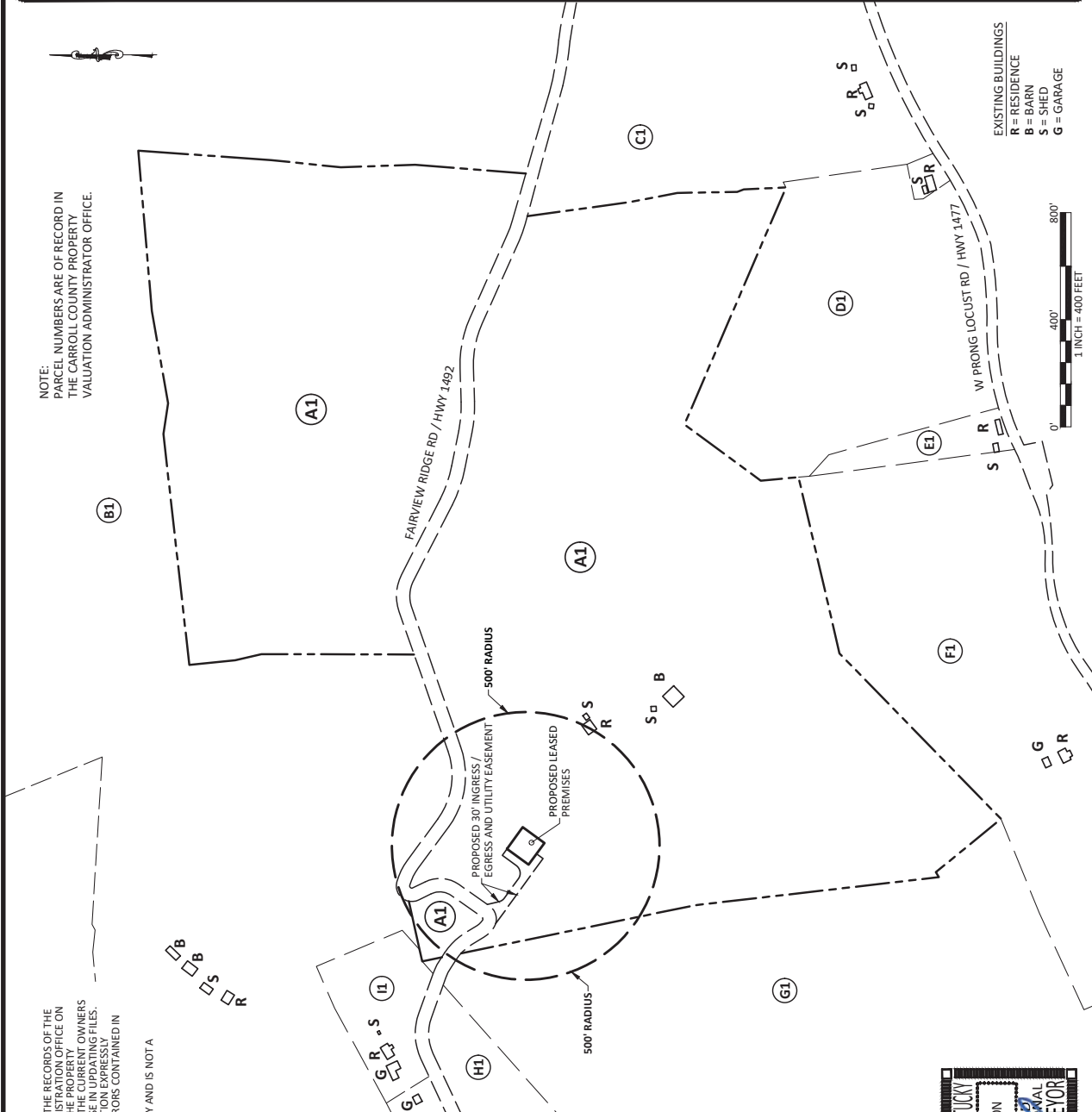
SHEET TITLE:
**500' RADIUS AND
ABUTTERS MAP**

SHEET NUMBER: (1 page)
B-2

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RWF LEGACY RANCH INC
242 SW 5TH STREET
POMPANO BEACH, FL 33060
- (B1)** PARCEL ID: 06-01
DERMON TIMOTHY W
86 BOYKIN LAKES LOOP
PIKE ROAD AL 36064
- (C1)** PARCEL ID: 06-16-02-01 & 06-16-02
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BAYLES WILLIAM
532 W PRONG LOCUST RD
MILTON KY 40045
- (E1)** PARCEL ID: 06-14-01
WENTWORTH MARY
828 W PRONG LOCUST
MILTON, KY 40045
- (F1)** PARCEL ID: 06-12
TODD GARY L
107 HWY 42N
CARROLLTON, KY 41008
- (G1)** PARCEL ID: 03-15
JOHNSON ALEXANDER S & GRIMES RACHEL
1312 W PRONG LOCUST
MILTON, KY 40045
- (H1)** PARCEL ID: 03-09-02
MCDOLE GEORGE WILLIAM LEE
1344 FAIRVIEW RIDGE
MILTON, KY 40045
- (I1)** PARCEL ID: 03-09-03
SMITH TERRY & TINA M
1148 FAIRVIEW RIDGE
MILTON, KY 40045



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

Mark E. Patterson
MARK PATTERSON, PLS #3136

DATE
04/20/2020

**EXHIBIT M
COPY OF POSTED NOTICES
AND NEWSPAPER NOTICE ADVERTISEMENT**

SITE NAME: LOCUST
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.

Skyway Towers, LLC and Cellco Partnership d/b/a Verizon Wireless 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; (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2020-00139 in your correspondence.

Skyway Towers, LLC and Cellco Partnership d/b/a Verizon Wireless 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; (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2020-00139 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: (502) 732-4261
VIA FAX: (502) 732-0453

Carrollton News Democrat
Attn: Public Notice Ad Placement
122 6th Street
Carrollton, KY 41008

RE: Legal Notice Advertisement
Site Name: Locust

Dear Carrollton News Democrat:

Please publish the following legal notice advertisement in the next edition of *Carrollton News Democrat*:

NOTICE

Skyway Towers, LLC, a Delaware limited liability company, and Cellco Partnership, a Delaware General Partnership d/b/a Verizon Wireless have filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located on 1002 Fairview Ridge, Milton, KY 40045 (38° 42' 20.66" North latitude, 85° 16' 51.00" 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 2020-00139 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

