COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF APC TOWERS IV, LLC AND	)
CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS	)
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC	) CASE NO.: 2025-00120
CONVENIENCE AND NECESSITY TO CONSTRUCT	)
A WIRELESS COMMUNICATIONS FACILITY	)
IN THE COMMONWEALTH OF KENTUCKY	)
IN THE COUNTY OF WEBSTER	)

SITE NAME: EV HEARTLAND ACADEMY

* * * * * * *

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

APC Towers IV, 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 submit this Application requesting issuance of a Certificate of Public Convenience and Necessity ("CPCN") from the Kentucky Public Service Commission ("PSC") to construct, maintain, and operate a Wireless Communications Facility ("WCF") to serve the customers of Verizon Wireless with wireless communications services.

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

1. The complete name and address of the Applicants are: APC Towers IV, LLC a Delaware limited liability company, having an address of 8601 Six Forks Road, Suite 250, Raleigh, NC 27615 and Cellco Partnership d/b/a Verizon Wireless having an address of

2421 Holloway Road, Louisville, Kentucky 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. APC Towers IV, LLC is a limited liability company organized in the State of Delaware. APC Towers IV, LLC's Certificate of Good standing issued by the State of Delaware is attached as part of **Exhibit A** and hereby incorporated by reference. APC Towers IV LLC is in good standing in the state in which it is organized and further states that it is authorized to transact business in Kentucky, and a copy of the Certificate of Authorization issued by the Kentucky Secretary of State is attached as part of **Exhibit A** and is hereby incorporated by reference.

4. Cellco Partnership d/b/a Verizon Wireless is a Delaware general partnership, and a copy of the Statement of Good Standing from Delaware and Certificate of Assumed Name on file with the Kentucky Secretary of State are included as part of **Exhibit A**. Verizon Wireless is in good standing in the state in which they are organized and further state that they are authorized to transact business in Kentucky.

5. Cellco Partnership d/b/a Verizon Wireless operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. A copy of Cellco Partnership d/b/a Verizon Wireless' FCC applications and 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.

6. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve wireless services to an area currently not served or not adequately served 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 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 Verizon Wireless' network design that must be in place to provide adequate coverage to the service area.

7. To address the above-described service needs, Applicants propose to construct a WCF in a lease area located at State Route 630, Slaughters, Kentucky 42456 (37° 28' 25.38" North latitude, 87° 37' 04.30" 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 Abraham Derksen and Rachel F. Derksen, Co-Trustees Under The Abraham Derksen and Rachel F. Derksen Family Living Revocable Trust pursuant to a Deed recorded at Deed Book 297, Page 170 in the office of the County Clerk. The proposed WCF will consist of a 295-foot tall guy-wire tower, with an approximately 5-foot tall lightning arrestor attached at the top, for a total height of 300-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of radio electronics equipment and appurtenant equipment. The 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**.

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

9. 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**.

10. 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**.

11. Applicants have considered the likely effects of the installation of the proposed WCF on nearby land uses and values and have concluded that there is no more suitable location reasonably available from which adequate services can be provided, and that there are no reasonably available opportunities to co-locate antennas on an existing structure. When suitable towers or structures exist, carriers attempt to co-locate on existing structures such as communications towers or other structures capable of supporting carrier's facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site.

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

13. A copy of the Kentucky Airport Zoning Commission ("KAZC") approval for the proposed tower is attached as **Exhibit F**.

14. 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.

15. 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.

16. APC Towers IV, LLC pursuant to a written agreement, has acquired the right to use the WCF site and associated property rights. A copy of the agreement or an abbreviated agreement recorded with the County Clerk is attached as **Exhibit I**.

17. 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.

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

19. 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.

20. **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**.

21. Applicants have sent notice to every person who, according to the records of the County Property Valuation Administrator ("PVA"), 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.

22. Copies of the Webster County PVA records obtained prior to mailing (and re-verified on May 16, 2025) and used to generate the notice list are attached as part of **Exhibit J**.

23. Eleven notice letters were sent to the landowners on the notice list at the mailing addresses shown on the County's PVA records. Copies of the "Certified Mail Receipts" confirming the dates on which the letters were sent are attached as part of **Exhibit J**.

24. All eleven signed United States Postal Service Form 3811 "green cards" have been returned. Copies of the returned "green cards" are attached as a part of **Exhibit J**.

All required landowner notice letters are accounted for as of the date of this filing.

25. 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 right to request intervention. A copy of this notice is attached as **Exhibit L**. A copy of the "Certified Mail Receipt" and a copy of the USPS Form 3811 "green card" for this mailing are also attached as a part of **Exhibit L**.

26. 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 tear sheet from the newspaper that includes the notice advertisement is attached as part of **Exhibit M**.

27. The general area where the proposed facility is to be located is rural in character and surrounded by large parcels with limited residential use. The site parcel is large and used for agricultural purposes.

28. 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. Verizon Wireless' 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**.

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

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

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

David A. Pike and
F. Keith Brown
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
kbrown@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
And

F. Keith Brown

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
Email: kbrown@pikelegal.com
Attorneys for Applicants

LIST OF EXHIBITS

A - Business Entity Documentation & FCC Documentation

B - Site Development Plan:

- 500' Vicinity Map
- Legal Descriptions
- Flood Plain Certification
- Site Plan
- Vertical Tower Profile

C - Tower and Foundation Design

- Construction Manager Letter
- List of Qualified Professionals
- Tower and Foundation Drawings

D - Competing Utilities, Corporations, or Persons List

E - Federal Aviation Administration Documentation

F - Kentucky Airport Zoning Commission

G - Geotechnical Report

H - Directions to WCF Site

I - Copy of Real Estate Agreement

J - Notification Listing, PVA Records & Proof of Notice

K - Copy of Property Owner Notification

L - Copy of County Judge/Executive Notice & Proof of Notice

M - Copy of Posted Notices, Newspaper Notice Advertisement Tear Sheet

N - Copy of Radio Frequency Design Search Area

EXHIBIT A

BUSINESS ENTITY DOCUMENTATION
& FCC LICENSE DOCUMENTATION

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF FORMATION OF "APC TOWERS IV, LLC", FILED IN THIS OFFICE ON THE THIRD DAY OF MARCH, A.D. 2022, AT 10:15 O`CLOCK A.M.

Jeffrey W. Bullock, Secretary of State

6650861 8100
SR# 20240209212

Authentication: 202646764
Date: 01-23-24

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

State of Delaware
Secretary of State
Division of Corporations
Delivered 10:15 AM 03/03/2022
FILED 10:15 AM 03/03/2022
SR 20220866393 - File Number 6650861

CERTIFICATE OF FORMATION

OF

APC TOWERS IV, LLC

This Certificate of Formation of APC Towers IV, LLC has been duly executed and is being filed by the undersigned authorized person for the purpose of forming a limited liability company pursuant to the Delaware Limited Liability Company Act, (6 Del. C. §§18-101, et seq.)

1. Name. The name of the limited liability company formed hereby (the "Company") is APC Towers IV, LLC.

2. Registered Office. The address of the registered office of the Company in the State of Delaware is: Corporation Trust Center, 1209 Orange Street, New Castle County, Wilmington, Delaware 19801.

3. Registered Agent. The name and address of the registered agent for service of process on the Company in the State of Delaware is The Corporation Trust Company, 1209 Orange Street, New Castle County, Wilmington, Delaware 19801.

4. Bankruptcy of a Member. For a period of sixty (60) days following the date on which the Company becomes aware that a bankruptcy petition has been filed by or against any member of the Company, the Company shall have the option to purchase all of such member's interests in the Company, exercisable by delivering written notice of its exercise of such option to such member and, if applicable, to the bankruptcy trustee and, provided that within sixty (60) days after its exercise of such option the Company pays to such member or trustee, as applicable, an amount equal to the capital account balance attributable to such member's interests in the Company (calculated pursuant to the Limited Liability Company Agreement of the Company), such member's interests in the Company automatically shall transfer to and vest in the Company without any further action by the Company and without any action by such member or trustee.

IN WITNESS WHEREOF, the undersigned authorized person has caused this Certificate of Formation to be duly executed as of the 3rd day of March, 2022.

/S/ GARRETT D. EVERS
Garrett D. Evers
Authorized Person

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "APC TOWERS IV, LLC" IS DULY FORMED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE TWENTY-THIRD DAY OF JANUARY, A.D. 2024.

AND I DO HEREBY FURTHER CERTIFY THAT THE SAID "APC TOWERS IV, LLC" WAS FORMED ON THE THIRD DAY OF MARCH, A.D. 2022.

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

Jeffrey W. Bullock, Secretary of State

6650861 8300

Authentication: 202646751

SR# 20240209212

Date: 01-23-24

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

Commonwealth of Kentucky
Michael G. Adams, Secretary of State

Michael G. Adams
Secretary of State
P. O. Box 718
Frankfort, KY 40602-0718
(502) 564-3490
http://www.sos.ky.gov

Authentication number: 309767
Visit https://web.sos.ky.gov/ftshow/certvalidate.aspx to authenticate this certificate.

I, Michael G. Adams, Secretary of State of the Commonwealth of Kentucky, do hereby certify that according to the records in the Office of the Secretary of State,

APC TOWERS IV, LLC

, a limited liability company authorized under the laws of the state of Delaware, is authorized to transact business in the Commonwealth of Kentucky, and received the authority to transact business in Kentucky on February 22, 2023.

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

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal at Frankfort, Kentucky, this 22nd day of April, 2024, in the 232nd year of the Commonwealth.

Michael G. Adams
Secretary of State
Commonwealth of Kentucky
309767/1262373

Delaware

The First State

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

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

3341134 8300

Authentication: 203227418

SR# 20231665976

Date: 04-27-23

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

COMMONWEALTH OF KENTUCKY

Michael G. Adams
Secretary of State

Certificate

I, Michael G. Adams, Secretary of State for the Commonwealth of Kentucky, do hereby certify that the foregoing writing has been carefully compared by me with the original thereof, now in my official custody as Secretary of State and remaining on file in my office, and found to be a true and correct copy of

CERTIFICATE OF ASSUMED NAME OF VERIZON WIRELESS ADOPTED BY GENERAL PARTNERS OF CELLCO PARTNERSHIP FILED JUNE 21, 2006.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal at Frankfort, Kentucky, this 10th day of May, 2023.

COMMONWEALTH OF KENTUCKY
OFFICE OF SECRETARY OF STATE

Michael G. Adams
Secretary of State
Commonwealth of Kentucky
kdcoleman/0641227 - Certificate ID: 290787

COMMONWEALTH OF KENTUCKY
TREY GRAYSON
SECRETARY OF STATE

0641227.07 Dcornish C226
Trey Grayson
Secretary of State
Received and Filed
06/21/2006 12:06:09 PM
Fee Receipt: $20.00

CERTIFICATE OF ASSUMED NAME

This certifies that the assumed name of

Verizon Wireless

[Name under which the business will be conducted]

has been adopted by See Addendum

[Real name - KRS 365.015(1)]

which is the "real name" of [YOU MUST CHECK ONE]

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

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

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

The certificate of assumed name is executed by

NYNEX PCS Inc.

Jane A. Schapker-Assistant Secretary
Print or type name and title

June 15, 2006
Date

Signature

Print or type name and title

Date

SSC-225 (7/06) (See attached sheet for instructions)

Addendum

The full name of the Partnership is Cellco Partnership; a Delaware general partnership with its headquarters located One Verizon Way, Basking Ridge NJ 07920-1097.

General Partners of Cellco Partnership	**Address**
Bell Atlantic Cellular Holdings, L.P.	One Verizon Way Basking Ridge, NJ 07920
NYNEX PCS Inc.	One Verizon Way Basking Ridge, NJ 07920
PCSCO Partnership	One Verizon Way Basking Ridge, NJ 07920
GTE Wireless Incorporated	One Verizon Way Basking Ridge, NJ 07920
GTE Wireless of Ohio Incorporated	One Verizon Way Basking Ridge, NJ 07920
PCS Nucleus, L.P.	2999 Oak Road, 7th Floor Walnut Creek, CA 94597
JV PartnerCo, LLC	2999 Oak Road, 7th Floor Walnut Creek, CA 94597

Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
KNKN871	0009611092
Radio Service CL - Cellular	
Market Numer CMA444	**Channel Block** B
Sub-Market Designator 0	

FCC Registration Number (FRN): 0003290673

Market Name
Kentucky 2 - Union

Grant Date	Effective Date	Expiration Date	Five Yr Build-Out Date	Print Date
08-31-2021	08-31-2021	10-01-2031		08-31-2021

Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
1	37-30-51.2 N	087-30-18.0 W	139.9	91.4	1030659

Address: 2138 SR 1405
City: SLAUGHTERS **County:** WEBSTER **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)	104.300	99.100	103.400	105.700	89.600	78.600	86.500	103.800
Transmitting ERP (watts)	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000

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

FCC 601-C
March 2018

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN871 **File Number:** 0009611092 **Print Date:** 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
2	37-16-53.0 N	087-29-17.0 W	176.8	90.8	1030654

Address: 1369 SAND CUT RD
City: Madisonville **County:** HOPKINS **State:** KY **Construction Deadline:**

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)	127.800	138.700	133.200	133.500	121.500	113.200	123.000	142.100
Transmitting ERP (watts)	208.970	190.560	12.020	1.000	0.500	0.500	0.630	30.910

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)	127.800	138.700	133.500	133.500	121.500	113.200	123.000	142.100
Transmitting ERP (watts)	0.500	0.540	19.950	190.560	208.940	20.420	1.070	0.500

Antenna: 7
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	127.800	138.700	133.500	133.500	121.500	113.200	123.000	142.100
Transmitting ERP (watts)	1.000	1.910	1.000	1.000	6.310	213.810	501.220	190.560

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
4	36-57-17.4 N	087-51-07.6 W	172.2	123.1	1030739

Address: (Hopson) RT 4 BOX 58 814999
City: Princeton **County:** CALDWELL **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)	135.700	130.000	144.600	143.600	151.900	144.500	138.300	138.900
Transmitting ERP (watts)	18.030	88.290	65.450	2.610	0.360	0.200	0.200	0.350

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	135.700	130.000	144.600	143.600	151.900	144.500	138.300	138.900
Transmitting ERP (watts)	0.420	0.420	2.640	89.540	209.890	79.800	0.420	0.800

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)	135.700	130.000	144.600	143.600	151.900	144.500	138.300	138.900
Transmitting ERP (watts)	55.210	1.870	1.030	0.840	1.150	19.590	283.140	381.940

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN871 **File Number:** 0009611092 **Print Date:** 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
5	37-19-00.3 N	088-04-34.3 W	237.4	90.5	1030656

Address: (Marion) 11 Brairwood Drive

City: Marion **County:** CRITTENDEN **State:** KY C**onstruction Deadline:**

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	162.700	163.300	176.200	156.900	167.800	184.500	160.300	175.600
Transmitting ERP (watts)	271.010	402.110	56.170	1.380	1.090	1.090	1.090	16.570

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	162.700	163.300	176.200	156.900	167.800	184.500	160.300	175.600
Transmitting ERP (watts)	1.090	1.090	54.770	411.390	270.910	18.590	1.090	1.090

Antenna: 4

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	162.700	163.300	176.200	156.900	167.800	184.500	160.300	175.600
Transmitting ERP (watts)	2.710	0.550	0.550	0.550	2.110	63.550	191.830	63.550

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
8	37-19-19.5 N	087-30-03.8 W	144.5	99.1	1040639

Address: 54 W LAKE ST

City: Madisonville **County:** HOPKINS **State:** KY C**onstruction Deadline:**

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	97.900	120.000	110.700	105.000	90.400	94.900	118.300	102.200
Transmitting ERP (watts)	91.200	87.100	85.110	85.110	89.130	87.100	89.130	89.130

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
9	37-39-38.0 N	087-55-11.5 W	153.6	121.9	1030655

Address: (Morganfield) 996 TP LUCKETTE RD

City: Morganfield **County:** UNION **State:** KY C**onstruction Deadline:**

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	130.600	126.500	124.600	100.000	131.200	122.100	129.400	122.600
Transmitting ERP (watts)	355.170	248.530	31.970	1.840	0.810	0.810	2.870	89.690

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)	130.600	126.500	124.600	100.000	131.200	122.100	129.400	122.600
Transmitting ERP (watts)	0.890	27.540	263.030	389.050	97.720	5.890	0.810	0.810

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN871 **File Number:** 0009611092 **Print Date:** 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
9	37-39-38.0 N	087-55-11.5 W	153.6	121.9	1030655

Address: (Morganfield) 996 TP LUCKETTE RD
City: Morganfield **County:** UNION **State:** KY C**onstruction 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)	130.600	126.500	124.600	100.000	131.200	122.100	129.400	122.600
Transmitting ERP (watts)	0.680	0.680	0.680	2.630	61.490	217.250	146.520	15.150

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
12	37-02-00.0 N	088-22-10.0 W	105.5	106.7	1040303

Address: (Calvert City) 641 Jary Johnson Rd.
City: Calvert City **County:** MARSHALL **State:** KY C**onstruction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.900	77.600	88.100	83.000	68.600	85.300	97.900	93.100
Transmitting ERP (watts)	23.380	330.300	378.360	36.130	0.970	0.970	0.970	0.970

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.900	77.600	88.100	83.000	68.600	85.300	97.900	93.100
Transmitting ERP (watts)	0.970	0.970	0.970	14.730	240.930	357.480	49.940	1.230

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)	78.900	77.600	88.100	83.000	68.600	85.300	97.900	93.100
Transmitting ERP (watts)	63.740	2.060	0.660	0.660	0.660	4.020	107.530	274.970

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
14	37-36-46.0 N	087-29-35.0 W	118.0	91.0	1034040

Address: EASTWOOD FERRY ROAD
City: SEBREE **County:** WEBSTER **State:** KY C**onstruction Deadline:** 02-23-2006

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)	73.800	88.300	72.700	87.800	81.700	80.900	73.100	79.800
Transmitting ERP (watts)	0.560	0.200	0.200	0.280	2.400	42.760	89.330	12.910

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)	73.800	88.300	72.700	87.800	81.700	80.900	73.100	79.800
Transmitting ERP (watts)	55.080	0.490	0.200	0.200	0.200	0.200	0.200	39.900

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN871 **File Number:** 0009611092 **Print Date:** 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
14	37-36-46.0 N	087-29-35.0 W	118.0	91.0	1034040

Address: EASTWOOD FERRY ROAD
City: SEBREE **County:** WEBSTER **State:** KY **Construction Deadline:** 02-23-2006

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)	73.800	88.300	72.700	87.800	81.700	80.900	73.100	79.800
Transmitting ERP (watts)	0.200	0.200	0.200	5.380	97.950	4.910	0.210	0.200

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
16	36-46-54.2 N	088-03-28.1 W	199.0	126.5	1205551

Address: SR 80/US 68 & Trace
City: Golden Pond **County:** TRIGG **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	165.000	178.000	160.000	175.000	171.000	167.000	177.000	184.000
Transmitting ERP (watts)	96.610	96.610	96.610	96.610	96.610	96.610	96.610	96.610

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	37-14-55.1 N	088-20-42.2 W	175.8	108.8	1231318

Address: 738 Mitchell Road
City: Burna **County:** LIVINGSTON **State:** KY **Construction Deadline:** 02-23-2006

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)	116.800	144.900	144.500	172.100	154.500	163.300	146.900	139.500
Transmitting ERP (watts)	50.060	6.450	0.130	0.130	0.130	1.990	13.790	50.060

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)	116.800	144.900	144.500	172.100	154.500	163.300	146.900	139.500
Transmitting ERP (watts)	4.780	26.880	61.590	32.320	2.880	0.130	0.130	0.600

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)	116.800	144.900	144.500	172.100	154.500	163.300	146.900	139.500
Transmitting ERP (watts)	0.130	0.130	0.130	2.750	15.470	52.420	46.720	5.120

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN871 **File Number:** 0009611092 **Print Date:** 08-31-2021

Control Points:

Control Pt. No. 2

Address: 500 West Dove Road

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

Waivers/Conditions:

NONE

Universal Licensing System

ULS Application

Cellular - 0009611092 - Cellco Partnership

HELP

File Number	0009611092	Radio Service	CL - Cellular
Call Sign	KNKN871	Application Status	G - Granted

General Information

Application Purpose	RO - Renewal Only		
Existing Radio Service			
Authorization Type	Regular	Emergency STA	
Receipt Date	07/06/2021	Action Date	08/31/2021
Entered Date	07/06/2021	Requested Expiration Date	
Waiver	No	Number of Rules	
Attachments	No	Grandfathered Privileges	No
Application Fee Exempt	No	Regulatory Fee Exempt	No
Major Request			
Use Question			

Market Data

Market	CMA444 - Kentucky 2 - Union	Channel Block	B (View Frequencies)
Submarket Designator	0	Phase	2

Applicant Information

FRN	0003290673 (View Ownership Filing)	Type	General Partnership
Name	Cellco Partnership 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Licensing Manager		P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com
Real Party in Interest		FRN of Real Party in Interest	

Contact Information

Name	Verizon Wireless Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com

Qualifications, Ownership

Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes

Alien Ownership
The Applicant answered "No" to each of the Alien Ownership questions.

Basic Qualifications
The Applicant answered "No" to each of the Basic Qualification questions.

Demographics

Race

Ethnicity Sex

Additional Certifications

Operation/Performance Requirement Certification

For a site-based license

Applicant certifies that it is continuing to operate consistent with its most recently filed construction notification (or most recent authorization, if no construction notification was required).

For a geographic license, commercial service - licensee in its initial license term with an interim performance requirement

Applicant certifies that it has met its interim performance requirement, that over the portion of the license term following the interim performance requirement, it continues to use its facilities to provide at least the level of service required by its interim performance requirement, it has met its final performance requirement, and it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of the license term.

For a geographic license, commercial service - licensee in its initial license term with no interim performance requirement

Applicant certifies that it has met its final performance requirement and it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of the license term.

For a geographic license, commercial service - licensee in any subsequent term

Applicant certifies that it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of any subsequent license terms.

For a geographic license, private systems - licensee in its initial license term with an interim performance requirement

Applicant certifies that it has met its interim performance requirement, that over the portion of the license term following the interim performance requirement, it continues to use its facilities to further its private business or public interest/public safety communications needs at or above the level

required to meet its interim performance requirement, it has met its final performance requirement, and it continues to use its facilities to provide at least the level of operation required by its final performance requirement through the end of the license term.

For a geographic license, private systems - licensee in its initial license term with no interim performance requirement

Applicant certifies that it has met its final performance requirement, it continues to use its facilities to further its private business or public interest/public safety communications needs, and it continues to use its facilities to provide at least the level of operation required by its final performance requirement through the end of the license term.

For a geographic license, private systems - licensee in any subsequent term

Applicant certifies that it continues to use its facilities to further its private business or public interest/public safety communications needs at or above the level required to meet its final performance requirement through the end of any subsequent license terms.

For a partitioned or disaggregated license without a performance requirement, for the first renewal application filed after 05/30/2020.

Applicant certifies that the partitioned and/or disaggregated license that is the subject of this renewal application has no separate performance requirement and that this is the first renewal of this license filed subsequent 10/01/2020.

For a partitioned or disaggregated license without a performance requirement, for any subsequent renewal filings

Applicant certifies that it continues to use its facilities to provide service or to further the applicant's private business or public interest/public safety needs.

Discontinuance of Service Certification

Applicant certifies that no permanent discontinuance of service or operation, as applicable, occurred during its current license term.

Regulatory Compliance Certification

Applicant certifies that it has substantially complied with all applicable FCC rules, policies, and the Communications Act of 1934, as amended.

Return to the Top

ULS Help	FAQ - Online Help - Technical Support - Licensing Support
ULS Online Systems	CORES - ULS Online Filing - License Search - Application Search - Archive License Search
About ULS	Privacy Statement - About ULS - ULS Home
Basic Search	By File Number SEARCH

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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	File Number
KNLG697	0007639976
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
04-04-2017	04-04-2017	04-28-2027	04-05-2017

Market Number	Channel Block	Sub-Market Designator
BTA135	F	0

Market Name
Evansville, IN

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
04-28-2002			

Waivers/Conditions:

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

This authorization is conditioned upon the full and timely payment of all monies due pursuant to Sections 1.2110 and 24.716 of the Commission's Rules and the terms of the Commission's installment plan as set forth in the Note and Security Agreement executed by the licensee. Failure to comply with this condition will result in the automatic cancellation of this authorization.

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.

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNLG697 **File Number:** 0007639976 **Print Date:** 04-05-2017

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Universal Licensing System

ULS Application

0010812881 - Trace-Tek

HELP

File Number	0010812881	Application Status	G - Granted
Application Purpose	LN - New Lease	Classification of Lease	*De Facto* Transfer

General Information

Application Purpose	LN - New Lease		
Receipt Date	12/13/2023		
Entered Date	12/13/2023	Action Date	02/24/2024
Waiver	No	Number of Rules	
Attachments	Yes		
Application Fee Exempt	No	Waiver/Deferral Fee	No

Licensee Information

FRN	0003290673 (View Ownership Filing)	Type	General Partnership
Name	Cellco Partnership ATTN Regulatory 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022		P:(770)797-1070 E:Licensing.Compliance@verizonwireless.com
Race		Sex	
Ethnicity			

Licensee Contact Information

Name	Verizon Sarah Trosch 1300 I St, NW- Suite 500 East Washington, DC 20005		P:(202)515-2453 E:sarah.trosch@verizon.com

Lessee Information

FRN	0030856223 (View Ownership)	Type	Limited Liability Company

Name	Trace-Tek ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341		P:(972)672-0477 E:licenses@trace-tek.com
Real Party In Interest	Trace-Tek	FRN of Real Party in Interest	0030856223
Race		Sex	
Ethnicity			

Lessee Contact Information

Name	Trace-Tek Garrett Loo ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341		P:(972)672-0477 E:licenses@trace-tek.com

Lessee Qualifications and Ownership Information

Radio Service Type

Regulatory Status Interconnected

Alien Ownership
The Applicant answered "No" to each of the Alien Ownership questions.

Basic Qualifications
The Applicant answered "No" to each of the Basic Qualification questions.

Return to the Top

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WPZV471	0010160221
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

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

Market Number	Channel Block	Sub-Market Designator
MTA026	A	25

Market Name
Louisville-Lexington-Evansvill

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

Waivers/Conditions:

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

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

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

FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WPZV471 **File Number:** 0010160221 **Print Date:** 02-15-2023

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Universal Licensing System

ULS Application

PCS Broadband - 0011502986 - Cellco Partnership

HELP

New Search Refine Search Printable Page Reference Copy

MAIN ADMIN TRANS LOG

File Number	0011502986	Radio Service	CW - PCS Broadband
Call Sign	WPZV471	Application Status	2 - Pending

General Information

Application Purpose	RO - Renewal Only		
Existing Radio Service			
Authorization Type	Regular	Emergency STA	
Receipt Date	03/27/2025	Action Date	03/28/2025
Entered Date	03/27/2025	Requested Expiration Date	
Waiver	No	Number of Rules	
Attachments	Yes	Grandfathered Privileges	No
Application Fee Exempt	No	Regulatory Fee Exempt	No
Major Request			
Use Question	Commercial		

Market Data

Market	MTA026 - Louisville-Lexington-Evansvill	Channel Block	A
Submarket Designator	25	Associated Frequencies (MHz)	001850.00000000-001865.00000000 001930.00000000-001945.00000000

Applicant Information

FRN	0003290673 (View Ownership Filing)	Type	General Partnership
Name	Cellco Partnership 5055 North Point Pkwy, NP2NE Engineering		P:(770)797-1070 E:Licensingcompliance@verizonwireless.com

Alpharetta, GA 30022
ATTN Licensing Manager

Real Party in Interest	FRN of Real Party in Interest

Contact Information

Name		
	Verizon Wireless Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:licensingcompliance@verizonwireless.com

Qualifications, Ownership

Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes

Alien Ownership
The Applicant answered "No" to each of the Alien Ownership questions.

Basic Qualifications
The Applicant answered "No" to each of the Basic Qualification questions.

Demographics

Race	
Ethnicity	Sex

Additional Certifications

Operation/Performance Requirement Certification

For a site-based license

Applicant certifies that it is continuing to operate consistent with its most recently filed construction notification (or most recent authorization, if no construction notification was required).

For a geographic license, commercial service - licensee in its initial license term with an interim performance requirement

Applicant certifies that it has met its interim performance requirement, that over the portion of the license term following the interim performance requirement, it continues to use its facilities to provide at least the level of service required by its interim performance requirement, it has met its final performance requirement, and it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of the license term.

For a geographic license, commercial service - licensee in its initial license term with no interim performance requirement

Applicant certifies that it has met its final performance requirement and it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of the license term.

For a geographic license, commercial service - licensee in any subsequent term

Applicant certifies that it continues to use its facilities to provide at least the level of service required by its final performance requirement through	Yes

the end of any subsequent license terms.

For a geographic license, private systems - licensee in its initial license term with an interim performance requirement

Applicant certifies that it has met its interim performance requirement, that over the portion of the license term following the interim performance requirement, it continues to use its facilities to further its private business or public interest/public safety communications needs at or above the level required to meet its interim performance requirement, it has met its final performance requirement, and it continues to use its facilities to provide at least the level of operation required by its final performance requirement through the end of the license term.

For a geographic license, private systems - licensee in its initial license term with no interim performance requirement

Applicant certifies that it has met its final performance requirement, it continues to use its facilities to further its private business or public interest/public safety communications needs, and it continues to use its facilities to provide at least the level of operation required by its final performance requirement through the end of the license term.

For a geographic license, private systems - licensee in any subsequent term

Applicant certifies that it continues to use its facilities to further its private business or public interest/public safety communications needs at or above the level required to meet its final performance requirement through the end of any subsequent license terms.

For a partitioned or disaggregated license without a performance requirement, for the first renewal application filed after 05/30/2020.

Applicant certifies that the partitioned and/or disaggregated license that is the subject of this renewal application has no separate performance requirement and that this is the first renewal of this license filed subsequent 10/01/2020.

For a partitioned or disaggregated license without a performance requirement, for any subsequent renewal filings

Applicant certifies that it continues to use its facilities to provide service or to further the applicant's private business or public interest/public safety needs.

Discontinuance of Service Certification

Applicant certifies that no permanent discontinuance of service or operation, as applicable, occurred during its current license term.	Yes

Regulatory Compliance Certification

Applicant certifies that it has substantially complied with all applicable FCC rules, policies, and the Communications Act of 1934, as amended.	Yes

Return to the Top

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RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

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

FCC Registration Number (FRN): 0003290673

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

Market Number	Channel Block	Sub-Market Designator
MTA026	A	27

Market Name
Louisville-Lexington-Evansvill

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

Waivers/Conditions:

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

Conditions:

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

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FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

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

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Universal Licensing System

ULS Application

PCS Broadband - 0011503160 - Cellco Partnership

File Number	0011503160	Radio Service	CW - PCS Broadband
Call Sign	WPZV473	Application Status	2 - Pending

General Information

Application Purpose	RO - Renewal Only		
Existing Radio Service			
Authorization Type	Regular	Emergency STA	
Receipt Date	03/27/2025	Action Date	03/28/2025
Entered Date	03/27/2025	Requested Expiration Date	
Waiver	No	Number of Rules	
Attachments	Yes	Grandfathered Privileges	No
Application Fee Exempt	No	Regulatory Fee Exempt	No
Major Request			
Use Question	Commercial		

Market Data

Market	MTA026 - Louisville-Lexington-Evansvill	Channel Block	A
Submarket Designator	27	Associated Frequencies (MHz)	001850.00000000-001865.00000000 001930.00000000-001945.00000000

Applicant Information

FRN	0003290673 (View Ownership Filing)	Type	General Partnership
Name	Cellco Partnership 5055 North Point Pkwy, NP2NE Engineering		P:(770)797-1070 E:Licensingcompliance@verizonwireless.com

Alpharetta, GA 30022
ATTN Licensing Manager

Real Party in Interest	FRN of Real Party in Interest

Contact Information

Name		
	Verizon Wireless Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:licensingcompliance@verizonwireless.com

Qualifications, Ownership

Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes

Alien Ownership
The Applicant answered "No" to each of the Alien Ownership questions.

Basic Qualifications
The Applicant answered "No" to each of the Basic Qualification questions.

Demographics

Race	
Ethnicity	Sex

Additional Certifications

Operation/Performance Requirement Certification

For a site-based license

Applicant certifies that it is continuing to operate consistent with its most recently filed construction notification (or most recent authorization, if no construction notification was required).

For a geographic license, commercial service - licensee in its initial license term with an interim performance requirement

Applicant certifies that it has met its interim performance requirement, that over the portion of the license term following the interim performance requirement, it continues to use its facilities to provide at least the level of service required by its interim performance requirement, it has met its final performance requirement, and it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of the license term.

For a geographic license, commercial service - licensee in its initial license term with no interim performance requirement

Applicant certifies that it has met its final performance requirement and it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of the license term.

For a geographic license, commercial service - licensee in any subsequent term

Applicant certifies that it continues to use its facilities to provide at least the level of service required by its final performance requirement through	Yes

the end of any subsequent license terms.

For a geographic license, private systems - licensee in its initial license term with an interim performance requirement

Applicant certifies that it has met its interim performance requirement, that over the portion of the license term following the interim performance requirement, it continues to use its facilities to further its private business or public interest/public safety communications needs at or above the level required to meet its interim performance requirement, it has met its final performance requirement, and it continues to use its facilities to provide at least the level of operation required by its final performance requirement through the end of the license term.

For a geographic license, private systems - licensee in its initial license term with no interim performance requirement

Applicant certifies that it has met its final performance requirement, it continues to use its facilities to further its private business or public interest/public safety communications needs, and it continues to use its facilities to provide at least the level of operation required by its final performance requirement through the end of the license term.

For a geographic license, private systems - licensee in any subsequent term

Applicant certifies that it continues to use its facilities to further its private business or public interest/public safety communications needs at or above the level required to meet its final performance requirement through the end of any subsequent license terms.

For a partitioned or disaggregated license without a performance requirement, for the first renewal application filed after 05/30/2020.

Applicant certifies that the partitioned and/or disaggregated license that is the subject of this renewal application has no separate performance requirement and that this is the first renewal of this license filed subsequent 10/01/2020.

For a partitioned or disaggregated license without a performance requirement, for any subsequent renewal filings

Applicant certifies that it continues to use its facilities to provide service or to further the applicant's private business or public interest/public safety needs.

Discontinuance of Service Certification

Applicant certifies that no permanent discontinuance of service or operation, as applicable, occurred during its current license term.	Yes

Regulatory Compliance Certification

Applicant certifies that it has substantially complied with all applicable FCC rules, policies, and the Communications Act of 1934, as amended.	Yes

Return to the Top

ULS Help	FAQ - Online Help - Technical Support - Licensing Support
ULS Online Systems	CORES - ULS Online Filing - License Search - Application Search - Archive License Search
About ULS	Privacy Statement - About ULS - ULS Home
Basic Search	By File Number SEARCH

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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	File Number
WQEM940	0007057146
Radio Service	
CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
03-15-2016	11-01-2016	03-08-2026	03-16-2016

Market Number	Channel Block	Sub-Market Designator
BTA135	C	4

Market Name
Evansville, IN

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
03-08-2011			

Waivers/Conditions:

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

Conditions:

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

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

FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQEM940 **File Number:** 0007057146 **Print Date:** 03-16-2016

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Universal Licensing System

ULS Application

0010812881 - Trace-Tek

HELP

File Number	0010812881	Application Status	G - Granted
Application Purpose	LN - New Lease	Classification of Lease	*De Facto* Transfer

General Information

Application Purpose	LN - New Lease		
Receipt Date	12/13/2023		
Entered Date	12/13/2023	Action Date	02/24/2024
Waiver	No	Number of Rules	
Attachments	Yes		
Application Fee Exempt	No	Waiver/Deferral Fee	No

Licensee Information

FRN	0003290673 (View Ownership Filing)	Type	General Partnership
Name	Cellco Partnership ATTN Regulatory 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022		P:(770)797-1070 E:Licensing.Compliance@verizonwireless.com
Race		Sex	
Ethnicity			

Licensee Contact Information

Name	Verizon Sarah Trosch 1300 I St, NW- Suite 500 East Washington, DC 20005		P:(202)515-2453 E:sarah.trosch@verizon.com

Lessee Information

FRN	0030856223 (View Ownership)	Type	Limited Liability Company

Name	Trace-Tek ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341		P:(972)672-0477 E:licenses@trace-tek.com
Real Party In Interest	Trace-Tek	FRN of Real Party in Interest	0030856223
Race		Sex	
Ethnicity			

Lessee Contact Information

Name	Trace-Tek Garrett Loo ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341		P:(972)672-0477 E:licenses@trace-tek.com

Lessee Qualifications and Ownership Information

Radio Service Type

Regulatory Status Interconnected

Alien Ownership
The Applicant answered "No" to each of the Alien Ownership questions.

Basic Qualifications
The Applicant answered "No" to each of the Basic Qualification questions.

Return to the Top

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

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

FCC Registration Number (FRN): 0003290673

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

Market Number	Channel Block	Sub-Market Designator
REA004	F	15

Market Name
Mississippi Valley

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

Waivers/Conditions:

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

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

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

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Universal Licensing System

ULS Application

0011534270 - Trace-Tek

File Number	0011534270	Application Status	2 - Pending
Application Purpose	LN - New Lease	Classification of Lease	*De Facto* Transfer

General Information

Application Purpose	LN - New Lease		
Receipt Date	04/22/2025		
Entered Date	04/22/2025	Action Date	04/23/2025
Waiver	No	Number of Rules	
Attachments	Yes		
Application Fee Exempt	No	Waiver/Deferral Fee	No

Licensee Information

FRN	0003290673 (View Ownership Filing)	Type	General Partnership
Name	Cellco Partnership ATTN Network Engineering 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022		P:(770)797-1070 E:Licensing.Compliance@verizonwireless.com
Race		Sex	
Ethnicity			

Licensee Contact Information

Name	Verizon Sarah Trosch 1300 I St, NW- Suite 500 East Washington, DC 20005		P:(202)515-2453 E:sarah.trosch@verizon.com

Lessee Information

FRN	0030856223 (View Ownership)	Type	Limited Liability Company

Name	Trace-Tek ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341		P:(972)672-0477 E:licenses@trace-tek.com
Real Party In Interest	Trace-Tek	FRN of Real Party in Interest	0030856223
Race		Sex	
Ethnicity			

Lessee Contact Information

Name	Trace-Tek Garrett Loo ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341		P:(972)672-0477 E:licenses@trace-tek.com

Lessee Qualifications and Ownership Information

Radio Service Type

Regulatory Status Interconnected

Alien Ownership
The Applicant answered "No" to each of the Alien Ownership questions.

Basic Qualifications
The Applicant answered "No" to each of the Basic Qualification questions.

Return to the Top

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WQGA957	0009775566
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
12-21-2021	12-21-2021	11-29-2036	12-21-2021

Market Number	Channel Block	Sub-Market Designator
BEA069	B	0

Market Name
Evansville-Henderson, IN-KY-IL

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

Waivers/Conditions:

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

Conditions:

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

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGA957 **File Number:** 0009775566 **Print Date:** 12-21-2021

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Universal Licensing System

ULS Application

0010812881 - Trace-Tek

HELP

New Search | Refine Search | Printable Page | Reference Copy

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File Number	0010812881	Application Status	G - Granted
Application Purpose	LN - New Lease	Classification of Lease	*De Facto* Transfer

General Information

Application Purpose	LN - New Lease		
Receipt Date	12/13/2023		
Entered Date	12/13/2023	Action Date	02/24/2024
Waiver	No	Number of Rules	
Attachments	Yes		
Application Fee Exempt	No	Waiver/Deferral Fee	No

Licensee Information

FRN	0003290673 (View Ownership Filing)	Type	General Partnership
Name	Cellco Partnership ATTN Regulatory 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022		P:(770)797-1070 E:Licensing.Compliance@verizonwireless.com
Race		Sex	
Ethnicity			

Licensee Contact Information

Name	Verizon Sarah Trosch 1300 I St, NW- Suite 500 East Washington, DC 20005		P:(202)515-2453 E:sarah.trosch@verizon.com

Lessee Information

FRN	0030856223 (View Ownership)	Type	Limited Liability Company

Name	Trace-Tek ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341		P:(972)672-0477 E:licenses@trace-tek.com
Real Party In Interest	Trace-Tek	FRN of Real Party in Interest	0030856223
Race		Sex	
Ethnicity			

Lessee Contact Information

Name	Trace-Tek Garrett Loo ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341		P:(972)672-0477 E:licenses@trace-tek.com

Lessee Qualifications and Ownership Information

Radio Service Type

Regulatory Status Interconnected

Alien Ownership
The Applicant answered "No" to each of the Alien Ownership questions.

Basic Qualifications
The Applicant answered "No" to each of the Basic Qualification questions.

Return to the Top

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WQGA960	0009775572
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

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

Market Number	Channel Block	Sub-Market Designator
BEA072	B	0

Market Name
Paducah, KY-IL

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

Waivers/Conditions:

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

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: WQGA960 **File Number:** 0009775572 **Print Date:** 01-05-2022

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Universal Licensing System

ULS Application

AWS (1710-1755 MHz and 2110-2155 MHz) - 0009775572 - Cellco Partnership

File Number	0009775572	Radio Service	AW - AWS (1710-1755 MHz and 2110-2155 MHz)
Call Sign	WQGA960	Application Status	G - Granted

General Information

Application Purpose	RO - Renewal Only		
Existing Radio Service			
Authorization Type	Regular	Emergency STA	
Receipt Date	10/26/2021	Action Date	01/03/2022
Entered Date	10/26/2021	Requested Expiration Date	
Waiver	No	Number of Rules	
Attachments	Yes	Grandfathered Privileges	No
Application Fee Exempt	No	Regulatory Fee Exempt	No
Major Request			
Use Question			

Market Data

Market	BEA072 - Paducah, KY-IL	Channel Block	B
Submarket Designator	0	Associated Frequencies (MHz)	001720.00000000-001730.00000000 002120.00000000-002130.00000000

Applicant Information

FRN	0003290673 (View Ownership Filing)	Type	General Partnership
Name	Cellco Partnership 5055 North Point Pkwy, NP2NE		P:(770)797-1070 F:(770)797-1036

	Network Engineering Alpharetta, GA 30022	E:LicensingCompliance@VerizonWireless.com
Real Party in Interest		FRN of Real Party in Interest

Contact Information

Name	Cellco Partnership Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022	P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com

Qualifications, Ownership

Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes

Alien Ownership
The Applicant answered "No" to each of the Alien Ownership questions.

Basic Qualifications
The Applicant answered "No" to each of the Basic Qualification questions.

Demographics

Race	
Ethnicity	Sex

Additional Certifications

Operation/Performance Requirement Certification

For a site-based license

Applicant certifies that it is continuing to operate consistent with its most recently filed construction notification (or most recent authorization, if no construction notification was required).

For a geographic license, commercial service - licensee in its initial license term with an interim performance requirement

Applicant certifies that it has met its interim performance requirement, that over the portion of the license term following the interim performance requirement, it continues to use its facilities to provide at least the level of service required by its interim performance requirement, it has met its final performance requirement, and it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of the license term.

For a geographic license, commercial service - licensee in its initial license term with no interim performance requirement

Applicant certifies that it has met its final performance requirement and it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of the license term.

For a geographic license, commercial service - licensee in any subsequent term

Applicant certifies that it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of any subsequent license terms.

For a geographic license, private systems - licensee in its initial license term with an interim performance requirement

Applicant certifies that it has met its interim performance requirement, that over the portion of the license term following the interim performance requirement, it continues to use its facilities to further its private business or public interest/public safety communications needs at or above the level required to meet its interim performance requirement, it has met its final performance requirement, and it continues to use its facilities to provide at least the level of operation required by its final performance requirement through the end of the license term.

For a geographic license, private systems - licensee in its initial license term with no interim performance requirement

Applicant certifies that it has met its final performance requirement, it continues to use its facilities to further its private business or public interest/public safety communications needs, and it continues to use its facilities to provide at least the level of operation required by its final performance requirement through the end of the license term.

For a geographic license, private systems - licensee in any subsequent term

Applicant certifies that it continues to use its facilities to further its private business or public interest/public safety communications needs at or above the level required to meet its final performance requirement through the end of any subsequent license terms.

For a partitioned or disaggregated license without a performance requirement, for the first renewal application filed after 05/30/2020.

Applicant certifies that the partitioned and/or disaggregated license that is the subject of this renewal application has no separate performance requirement and that this is the first renewal of this license filed subsequent 10/01/2020.

For a partitioned or disaggregated license without a performance requirement, for any subsequent renewal filings

Applicant certifies that it continues to use its facilities to provide service or to further the applicant's private business or public interest/public safety needs.

Discontinuance of Service Certification

Applicant certifies that no permanent discontinuance of service or operation, as applicable, occurred during its current license term.

Regulatory Compliance Certification

Applicant certifies that it has substantially complied with all applicable FCC rules, policies, and the Communications Act of 1934, as amended.

Return to the Top

ULS Help	FAQ - Online Help - Technical Support - Licensing Support
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About ULS	Privacy Statement - About ULS - ULS Home
Basic Search	By File Number SEARCH

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WQGD606	0009565676

Radio Service
AW - AWS (1710-1755 MHz and 2110-2155 MHz)

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
12-16-2021	12-16-2021	12-18-2036	07-09-2022

Market Number	Channel Block	Sub-Market Designator
BEA072	C	0

Market Name
Paducah, KY-IL

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

Waivers/Conditions:

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

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

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

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

FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGD606 **File Number:** 0009565676 **Print Date:** 07-09-2022

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Universal Licensing System

ULS Application

0010093348 - Cellco Partnership

HELP

New Search Refine Search Printable Page Reference Copy

MAIN ADMIN TRANS LOG NOTIFICATION

File Number	0010093348	Application Status	Q - Accepted

General Information

Application Purpose	NT - Required Notification		
Existing Radio Service			
Authorization Type		Emergency STA	
Receipt Date	06/16/2022	Action Date	06/17/2022
Entered Date	06/16/2022	Requested Expiration Date	
Waiver	No	Number of Rules	
Attachments		Grandfathered Privileges	
Application Fee Exempt	No	Regulatory Fee Exempt	
Major Request			

Applicant Information

FRN	0003290673 (View Ownership Filing)	Type	General Partnership
Name	Cellco Partnership 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022 ATTN Regulatory		P:(770)797-1070 E:Licensing.Compliance@verizonwireless.com
Real Party in Interest		FRN of Real Party in Interest	

Contact Information

Name	Verizon Sarah Trosch 1300 I Street, NW - Suite 500 East Washington, DC 20005	P:(202)515-2453 E:sarah.trosch@verizon.com

Return to the Top

ULS Help	FAQ - Online Help - Technical Support - Licensing Support
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FCC | Wireless | ULS | CORES

Help | Tech Support

Federal Communications Commission
45 L Street NE
Washington, DC 20554

Phone: 1-877-480-3201
ASL Videophone:1-844-432-2275
Submit Help Request

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WQHG455	0009041605
Radio Service	
CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
06-30-2017	05-29-2020	07-23-2027	08-12-2020

Market Number	Channel Block	Sub-Market Designator
BTA135	C	5

Market Name
Evansville, IN

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
07-23-2012			

Waivers/Conditions:

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

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQHG455 **File Number:** 0009041605 **Print Date:** 08-12-2020

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Universal Licensing System

ULS Application

0010812881 - Trace-Tek

HELP

New Search | Refine Search | Printable Page | Reference Copy

MAIN | ADMIN | LEASE INFO | LEASES | DATES | REVENUE

File Number	0010812881	Application Status	G - Granted
Application Purpose	LN - New Lease	Classification of Lease	*De Facto* Transfer

General Information

Application Purpose	LN - New Lease		
Receipt Date	12/13/2023		
Entered Date	12/13/2023	Action Date	02/24/2024
Waiver	No	Number of Rules	
Attachments	Yes		
Application Fee Exempt	No	Waiver/Deferral Fee	No

Licensee Information

FRN	0003290673 (View Ownership Filing)	Type	General Partnership
Name	Cellco Partnership ATTN Regulatory 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022		P:(770)797-1070 E:Licensing.Compliance@verizonwireless.com
Race		Sex	
Ethnicity			

Licensee Contact Information

Name	Verizon Sarah Trosch 1300 I St, NW- Suite 500 East Washington, DC 20005		P:(202)515-2453 E:sarah.trosch@verizon.com

Lessee Information

FRN	0030856223 (View Ownership)	Type	Limited Liability Company

Name	Trace-Tek ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341		P:(972)672-0477 E:licenses@trace-tek.com
Real Party In Interest	Trace-Tek	FRN of Real Party in Interest	0030856223
Race		Sex	
Ethnicity			

Lessee Contact Information

Name	Trace-Tek Garrett Loo ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341		P:(972)672-0477 E:licenses@trace-tek.com

Lessee Qualifications and Ownership Information

Radio Service Type

Regulatory Status Interconnected

Alien Ownership
The Applicant answered "No" to each of the Alien Ownership questions.

Basic Qualifications
The Applicant answered "No" to each of the Basic Qualification questions.

Return to the Top

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WQHG457	0007748770
Radio Service	
CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
06-29-2017	06-29-2017	07-23-2027	07-01-2017

Market Number	Channel Block	Sub-Market Designator
BTA135	C	6

Market Name
Evansville, IN

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
07-23-2012			

Waivers/Conditions:

NONE

Conditions:

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

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

FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQHG457 **File Number:** 0007748770 **Print Date:** 07-01-2017

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Universal Licensing System

ULS Application

0010812881 - Trace-Tek

HELP

New Search | Refine Search | Printable Page | Reference Copy

MAIN | ADMIN | LEASE INFO | LEASES | DATES | REVENUE

File Number	0010812881	Application Status	G - Granted
Application Purpose	LN - New Lease	Classification of Lease	*De Facto* Transfer

General Information

Application Purpose	LN - New Lease		
Receipt Date	12/13/2023		
Entered Date	12/13/2023	Action Date	02/24/2024
Waiver	No	Number of Rules	
Attachments	Yes		
Application Fee Exempt	No	Waiver/Deferral Fee	No

Licensee Information

FRN	0003290673 (View Ownership Filing)	Type	General Partnership
Name	Cellco Partnership ATTN Regulatory 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022		P:(770)797-1070 E:Licensing.Compliance@verizonwireless.com
Race		Sex	
Ethnicity			

Licensee Contact Information

Name	Verizon Sarah Trosch 1300 I St, NW- Suite 500 East Washington, DC 20005		P:(202)515-2453 E:sarah.trosch@verizon.com

Lessee Information

FRN	0030856223 (View Ownership)	Type	Limited Liability Company

Name	Trace-Tek ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341		P:(972)672-0477 E:licenses@trace-tek.com
Real Party In Interest	Trace-Tek	FRN of Real Party in Interest	0030856223
Race		Sex	
Ethnicity			

Lessee Contact Information

Name	Trace-Tek Garrett Loo ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341		P:(972)672-0477 E:licenses@trace-tek.com

Lessee Qualifications and Ownership Information

Radio Service Type

Regulatory Status Interconnected

Alien Ownership
The Applicant answered "No" to each of the Alien Ownership questions.

Basic Qualifications
The Applicant answered "No" to each of the Basic Qualification questions.

Return to the Top

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WQJQ692	0008587218
Radio Service	
WU - 700 MHz Upper Band (Block C)	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
01-10-2020	02-03-2025	06-13-2029	01-14-2020

Market Number	Channel Block	Sub-Market Designator
REA004	C	0

Market Name
Mississippi Valley

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

Waivers/Conditions:

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

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

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

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

FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQJQ692 **File Number:** 0008587218 **Print Date:** 01-14-2020

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Universal Licensing System

ULS Application

0011536151 - Trace-Tek

HELP

New Search | Refine Search | Printable Page | Reference Copy

MAIN | ADMIN | LEASE INFO | LEASES | DATES | REVENUE

File Number	0011536151	Application Status	2 - Pending
Application Purpose	LN - New Lease	Classification of Lease	*De Facto* Transfer

General Information

Application Purpose	LN - New Lease		
Receipt Date	04/23/2025		
Entered Date	04/23/2025	Action Date	04/24/2025
Waiver	No	Number of Rules	
Attachments	Yes		
Application Fee Exempt	No	Waiver/Deferral Fee	No

Licensee Information

FRN	0003290673 (View Ownership Filing)	Type	General Partnership
Name	Cellco Partnership ATTN Network Engineering 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022		P:(770)797-1070 E:Licensing.Compliance@verizonwireless.com
Race		Sex	
Ethnicity			

Licensee Contact Information

Name	Verizon Sarah Trosch 1300 I St, NW- Suite 500 East Washington, DC 20005		P:(202)515-2453 E:sarah.trosch@verizon.com

Lessee Information

FRN	0030856223 (View Ownership)	Type	Limited Liability Company

Name	Trace-Tek ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341		P:(972)672-0477 E:licenses@trace-tek.com
Real Party In Interest	Trace-Tek	FRN of Real Party in Interest	0030856223
Race		Sex	
Ethnicity			

Lessee Contact Information

Name	Trace-Tek Garrett Loo ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341		P:(972)672-0477 E:licenses@trace-tek.com

Lessee Qualifications and Ownership Information

Radio Service Type

Regulatory Status Interconnected

Alien Ownership
The Applicant answered "No" to each of the Alien Ownership questions.

Basic Qualifications
The Applicant answered "No" to each of the Basic Qualification questions.

Return to the Top

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign	File Number
WRWD819	0010170266
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
09-23-2022	09-23-2022	04-16-2037	02-10-2023

Market Number	Channel Block	Sub-Market Designator
BEA069	C	10

Market Name
Evansville-Henderson, IN-KY-IL

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

Waivers/Conditions:

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

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

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

FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRWD819 **File Number:** 0010170266 **Print Date:** 02-10-2023

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Universal Licensing System

ULS Application

0010170266 - Cellco Partnership

HELP

New Search Refine Search Printable Page Reference Copy

MAIN ADMIN TRANS LOG ASSIGNMENTS LICENSES REVENUE

File Number	0010170266	Application Status	M - Consummated

General Information

Application Purpose	AA - Assignment of Authorization		
Receipt Date	08/23/2022		
Entered Date	08/23/2022	Action Date	02/10/2023
Waiver	No	Number of Rules	
Attachments	Yes		
Application Fee Exempt	No	Waiver/Deferral Fee	No

Assignor Information

FRN	0003291192 (View Ownership Filing)	Type	Limited Liability Company
Name	New Cingular Wireless PCS, LLC ATTN Cecil J Mathew 208 S. Akard Street, RM 1016 Dallas, TX 75202		P:(855)699-7073 F:(214)746-6410 E:FCCMW@att.com
Race		Sex	
Ethnicity			

Assignor Contact Information

Name	AT&T Mobility LLC ATTN Michael P. Goggin 1120 20th Street NW, Suite 1000 Washington, DC 20036		P:(202)457-2055 E:michael.p.goggin@att.com

Assignee Information

FRN	0003290673 (View Ownership)	Type	General Partnership
Name	Cellco Partnership ATTN Regulatory		P:(770)797-1070 E:Licensing.Compliance@verizonwireless.com

	5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022		
Real Party In Interest	Cellco Partnership	FRN of Real Party in Interest	0003290673
Race		Sex	
Ethnicity			

Assignee Contact Information

Name	Verizon Sarah Trosch 1300 I Street, NW - Suite 500 East Washington, DC 20005	P:(202)515-2453 E:sarah.trosch@verizon.com

Assignee Qualifications and Ownership Information

Alien Ownership
The Applicant answered "No" to each of the Alien Ownership questions.

Basic Qualifications
The Applicant answered "No" to each of the Basic Qualification questions.

Return to the Top

EXHIBIT B

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

APC Towers

8601 SIX FORKS ROAD, SUITE 250
RALEIGH, NC 27615

NEW 295' GUYED TOWER
W/ 5' LIGHTNING ROD
TOTAL TOWER HEIGHT 300'
VERIZON ANTENNA C.L. 290'

CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS
EV HEARTLAND ACADEMY
SPM PROJECT No. 17108213

KY-1823
EV HEARTLAND ACADEMY
CELL SITE
STATE ROUTE 630
SLAUGHTERS, KY 42456
WEBSTER COUNTY

TOWER OWNER
APC TOWERS
JONATHAN GREENE
RALEIGH, NC 27615
PH: (704) 724-8382
EMAIL: JGREENE@APCTOWERS.COM

PROPERTY OWNER
ABRAHAM & RACHEL F DERKSEN FAMILY LIVING REVOCABLE TRUST
SEBREE, KY 42455

POLICE DEPARTMENT
WEBSTER COUNTY SHERIFF
25 US HWY 41A S,
DIXON, KY 42409
PH: (270) 639-5067

FIRE DEPARTMENT
DIXON CITY FIRE DEPT
16 US-41 ALT
DIXON, KY 42409
PH: (270) 639-5443

TOWER OWNER LEASE AREA
100'x100'
(10,000 SQ. FT.)

VERIZON LEASE AREA
30'x12'
(360 SQ. FT.)

PROJECT TOTAL DISTURBED AREA

FENCE COMPOUND:	4095 SQ FT (0.094 AC)
ACCESS DRIVE:	3600 SQ FT (0.082 AC)
GUY ANCHOR:	1900 SQ FT (0.044 AC)
GROSS AREA:	9595 SQ FT (0.220 AC)

SITE COORDINATES AND ELEVATION
LATITUDE – N37° 28' 25.38" / 37.47371
LONGITUDE – W087° 37' 04.30" /-87.61786
(NAD 83)

GROUND ELEVATION – ±425' AMSL
(NAVD 88)

PROJECT SUMMARY

SITE ACQUISITION
CAA WIRELESS
TAMI PIKE
MT. EDEN, KY 40046
PH: (502) 477-5921
EMAIL: TAMI.PIKE@CAAWIRELESS.COM

DESIGN ENGINEERING
MISSION 1 COMMUNICATIONS
DONALD HOEFELMEYER
FORT WAYNE, IN 46804
PH: (260) 436-3922
EMAIL: DHOEFELMEYER@M1COMM.COM

SURVEYOR
BENCHMARK SERVICES, INC.
RALPH WALLEM
HUNTINGBURG, IN 47542
PH: (812) 683-3049
EMAIL: BENCHMARK@MW.TWCBC.COM

UTILITIES – ELECTRIC
KENERGY CORP. UTILITIES
HANSON, KY 42431
PH: 1(800) 844-4832
EMAIL:

CONSULTANT TEAM

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

TOWER OWNER (OWNER) SCOPE:
- INSTALL NEW 295' TOWER w/ 5' LIGHTNING ROD (OSH – 300') W/ CABLE SUPPORT AND FOUNDATIONS
- PURCHASE AND DELIVER TO SITE OF VERIZON ANTENNA MOUNT FRAME ASSEMBLY
- INSTALL NEW 60'x60' FENCED AGGREGATE COMPOUND AND ALL GENERAL SITE CONSTRUCTION ITEMS
- INSTALL NEW ELECTRICAL SERVICE TO SITE & UTILITY H-FRAME IN FENCED COMPOUND
- INSTALL NEW AGGREGATE ACCESS DRIVE
- INSTALL NEW TOWER & SITE SUBSURFACE GROUNDING SYSTEM
- INSTALL NEW VERIZON EQUIPMENT SUBSURFACE GROUNDING SYSTEM
- INSTALL NEW VERIZON 11'-6"x7'-6" CONCRETE EQUIPMENT PAD
- INSTALL NEW VERIZON 9'-6"x4'-0" CONCRETE GENERATOR PAD
- INSTALL NEW VERIZON GALV. UTILITY EQUIPMENT CANOPY, EQUIPMENT H-FRAME AND ICE BRIDGE, POSTS, & FOUNDATIONS
- INSTALL NEW VERIZON ELECTRIC SERVICE CONDUIT w/ PULL TAPES FROM UTILITY H-FRAME AND STUB-UP AT (VERIZON GC) INTEGRATED LOAD CENTER (ILC) LOCATION
- INSTALL NEW VERIZON CONDUITS W/ PULL TAPES FROM ILC LOCATION AND STUB-UP AT GENERATOR LOCATION
- INSTALL (2) NEW "VERIZON WIRELESS ONLY" FIBER 36"x24" HAND HOLES, (1) AT PUBLIC RIGHT-OF-WAY, (1) OUTSIDE FENCE COMPOUND
- INSTALL NEW "VERIZON WIRELESS ONLY" (3) 1 1/4" SDR-11 SMOOTH WALL HDPE INNERDUCTS WITH PULL TAPES AND TRACER WIRE FROM "VERIZON WIRELESS ONLY" HAND HOLE AT R.O.W TO "VERIZON WIRELESS ONLY" HAND HOLE OUTSIDE FENCE COMPOUND
- INSTALL NEW "VERIZON WIRELESS ONLY" (2) 1 1/4" SDR-11 SMOOTH WALL HDPE FIBER INNERDUCTS WITH PULL TAPES AND TRACER WIRE FROM "VERIZON WIRELESS ONLY" HAND HOLE OUTSIDE FENCE COMPOUND AND STUB AT VERIZON 12"x12"x8" FIBER JUNCTION BOX LOCATION ON EQUIPMENT H-FRAME
- INSTALL NEW VERIZON 8'-0"X4'-0" CONCRETE LP TANK PAD
- INSTALL NEW VERIZON LP GAS CONDUIT FROM LP TANK TO GENERATOR PAD AND STUB-UP AT BOTH LOCATIONS

VERIZON WIRELESS (VERIZON GC) SCOPE:
- INSTALL NEW VERIZON 10'-0"x6'-4" PREFABRICATED GALV. RF EQUIPMENT CANOPY
- INSTALL NEW VERIZON GPS ANTENNA, ANTENNA, FEEDLINE, & RADIO EQUIPMENT, ON OWNER INSTALLED TOWER
- EXTEND & CONNECT OWNER INSTALLED GROUND LEADS TO VERIZON EQUIPMENT & FACILITIES
- INSTALL NEW VERIZON CONDUITS w/ PULL TAPES FROM RF CABINET TO OVP H-FRAME LIT FIBER LOCATION
- INSTALL NEW VERIZON CONDUITS AND CIRCUITS FROM ILC LOCATION TO RF EQUIPMENT CABINET(S) ON VERIZON EQUIPMENT PAD
- INSTALL NEW VERIZON GENERATOR CIRCUITS FROM ILC LOCATION & EQUIPMENT RF EQUIPMENT CABINET TO VERIZON GENERATOR
- INSTALL NEW ELECTRIC SERVICE CONDUCTOR FROM OWNER INSTALLED UTILITY H-FRAME IN OWNER INSTALLED CONDUIT TO VERIZON INSTALLED INTEGRATED LOAD CENTER (ILC)
- INSTALL NEW OUTDOOR OVP AND CABLING ON VERIZON EQUIPMENT H-FRAME
- INSTALL SEAMLESS PLASTIC LP GAS LINE IN OWNER SUPPLIED CONDUIT AND LP TANK ON OWNER SUPPLIED CONCRETE PAD

PROJECT DESCRIPTION

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 H
MECHANICAL CODE	2012 INTERNATIONAL MECHANICAL CODE (IMC 2012)
PLUMBING CODE	KENTUCKY STATE PLUMBING CODE (815 KAR CHAP. 20)
ELECTRICAL CODE	2017 NATIONAL ELECTRICAL CODE (NEC) – NFPA 70-2008
FIRE/LIFE SAFETY CODE	2012 INTERNATIONAL FIRE CODE (2012 IFC)
ENERGY CODE	2012 INTERNATIONAL ENERGY CODE (COMMERCIAL)
FUEL 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.

NO WATER SEWER SERVICES TO/FROM THE SITE

APPLICABLE CODES

BEGINNING AT THE WEBSTER COUNTY SEAT, DIXON, KY TAKE:

LEIPER STREET/KY-132 EAST
KY-630, TURN RIGHT (EAST) 4.9 MILE

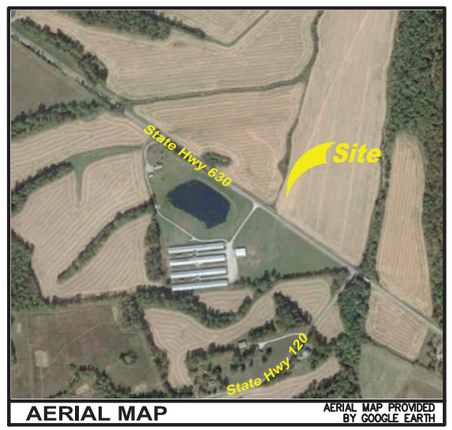
TO THE SITE ENTRANCE ON THE LEFT (NORTH) SIDE OF THE ROAD

SITE ENTRANCE LAT-LON: N37° 28' 23.15" / 37.47309
W088° 37' 06.27" / -87.61841

DIRECTIONS TO SITE

VICINITY MAP — VICINITY MAP PROVIDED BY BING MAPS

LOCATION MAP — LOCATION MAP PROVIDED BY BING MAPS



AERIAL MAP — AERIAL MAP PROVIDED BY GOOGLE EARTH

DRAWING INDEX

Kentucky 811
Call 811 or
(800) 752-6007 Toll Free
48 Hours Prior To Digging

APC Towers

CELLCO PARTNERSHIP, d/b/a verizon

MISSION 1 COMMUNICATIONS

CERTIFICATION:
STATE OF KENTUCKY
WILLIAM R. HEIDEN III
No. 22430
LICENSED PROFESSIONAL ENGINEER
May 15, 2025

RELEASE		
REV	DATE	
	04-15-2024	LEASE EXHIBIT
	05-13-2025	ZONING DRAWINGS

SITE NAME:

KY-1823
EV HEARTLAND ACADEMY
CELL SITE

SITE ADDRESS:

STATE ROUTE 630
SLAUGHTERS, KY 42456

SHEET TITLE:

PROJECT INFORMATION, LOCATION MAPS, AND DRAWING INDEX

SHEET NO.:

T-1

CENTER OF TOWER
COORDINATE POINT LOCATION
NAD 1983
LATITUDE: 37°28'25.38" N (37.47371805)
LONGITUDE: 87°37'04.30" W (−87.61786051)
NAVD 1988
ELEVATION 424.50 AMSL

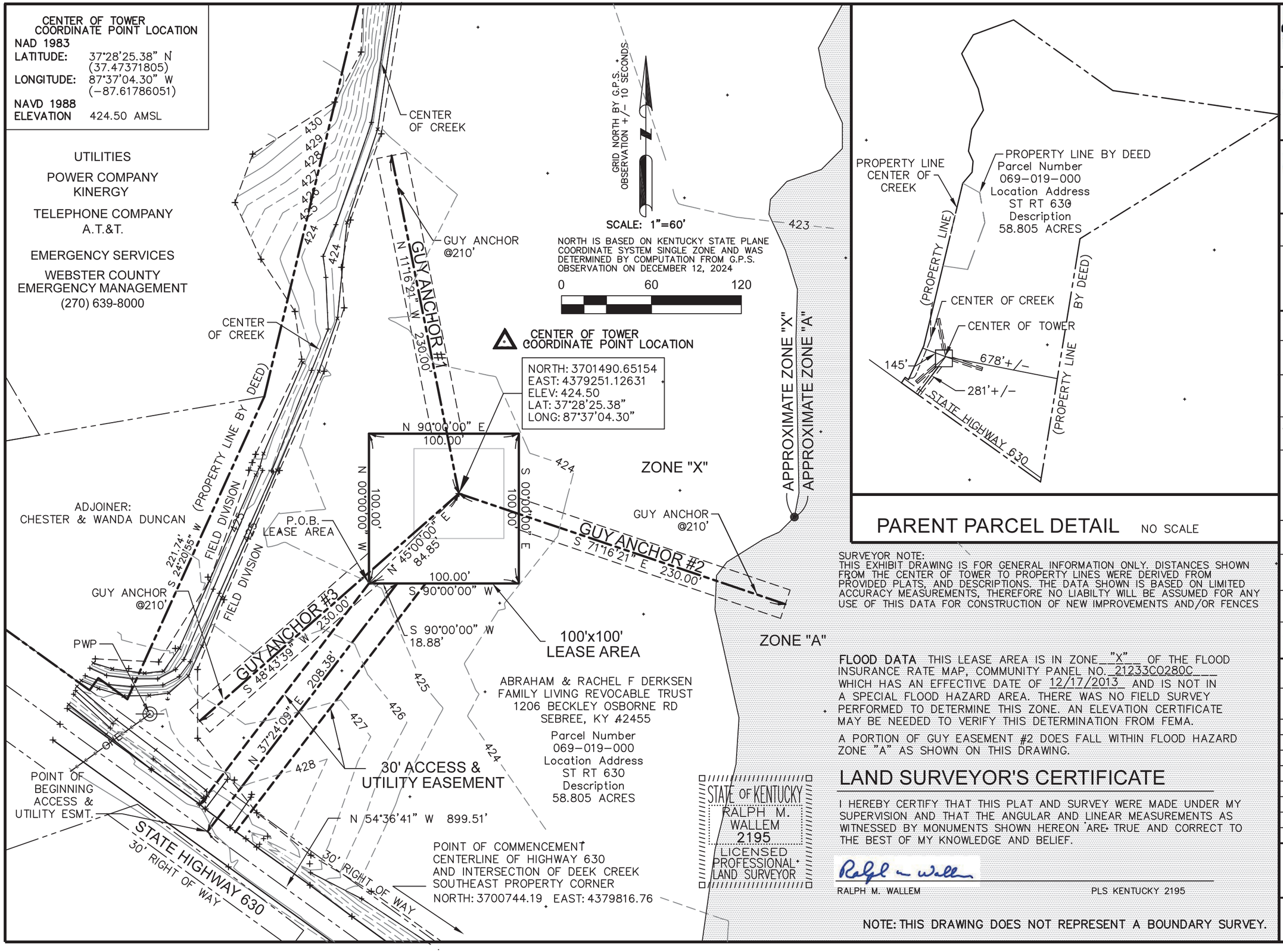
UTILITIES

POWER COMPANY
KINERGY

TELEPHONE COMPANY
A.T.&T.

EMERGENCY SERVICES

WEBSTER COUNTY
EMERGENCY MANAGEMENT
(270) 639-8000



PARENT PARCEL DETAIL NO SCALE

SURVEYOR NOTE:
THIS EXHIBIT DRAWING IS FOR GENERAL INFORMATION ONLY. DISTANCES SHOWN FROM THE CENTER OF TOWER TO PROPERTY LINES WERE DERIVED FROM PROVIDED PLATS, AND DESCRIPTIONS. THE DATA SHOWN IS BASED ON LIMITED ACCURACY MEASUREMENTS, THEREFORE NO LIABILTY WILL BE ASSUMED FOR ANY USE OF THIS DATA FOR CONSTRUCTION OF NEW IMPROVEMENTS AND/OR FENCES

FLOOD DATA THIS LEASE AREA IS IN ZONE "X" OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 21233C0280C WHICH HAS AN EFFECTIVE DATE OF 12/17/2013 AND IS NOT IN A SPECIAL FLOOD HAZARD AREA. THERE WAS NO FIELD SURVEY PERFORMED TO DETERMINE THIS ZONE. AN ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS DETERMINATION FROM FEMA.

A PORTION OF GUY EASEMENT #2 DOES FALL WITHIN FLOOD HAZARD ZONE "A" AS SHOWN ON THIS DRAWING.

LAND SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT AND SURVEY WERE MADE UNDER MY SUPERVISION AND THAT THE ANGULAR AND LINEAR MEASUREMENTS AS WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

STATE OF KENTUCKY
RALPH M. WALLEM
2195
LICENSED PROFESSIONAL LAND SURVEYOR

RALPH M. WALLEM PLS KENTUCKY 2195

NOTE: THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

APC Towers
RALEIGH, NC 27615

CELLCO PARTNERSHIP, d/b/a
verizon

MISSION 1 COMMUNICATIONS
FT. WAYNE, IN 46804

BENCHMARK SERVICES, INC.
Consulting Engineers
Land Surveyors
318 North Main Street
Huntingburg, IN 47542
(812) 683-3049
benchmark@mw.twcbc.com

SITE NO: KY-1823

SITE NAME: EV HEARTLAND ACADEMY

SITE ADDRESS: STATE ROUTE 630 SLAUGHTERS, KY 42456

LEASE AREA: 10000 SQ. FT.

PROPERTY OWNER: ABRAHAM & RACHAEL F. DERKSEN FAMILY LIVING REVOCABLE TRUST 1206 BECKLEY OSBORNE RD SEBREE, KY 42455

COUNTY: WEBSTER COUNTY

PARCEL NO: 069-019-000

INSTRUMENT NUMBER: DB 297, PAGE 172

LATITUDE: 37°28'25.38" N
LONGITUDE: 87°37'04.30" W

DWG BY:	CHKD BY:	DATE:
GVW	RMW	12.20.24

NO.	REVISION/ISSUE	DATE:
1.	REVISION	2.14.25
2.	ADD APPROXIMATE FLOOD ZONE LINE	3.6.25
3.	FLOOD NOTE	4.24.25

TITLE: SURVEY PLAN

SHEET: 1 OF 2

TITLE COMMITMENT

Issuing Agent: Old Republic National Title Insurance Company
Issuing Office: 530 SOUTH MAIN STREET SUITE 1061 AKRON, OH 44311
ID Number: KY-1823
Commitment Number: 01-24012832-01T
Property Address: STATE ROUTE 630 SLAUGHTERS, KY 42456

Commitment Date: 03/25/2024 at 7:00 a.m.
Proposed Insured: APC TOWERS IV, LLC
The estate or interest to be insured: LEASEHOLD
The Title is, at the Commitment Date, vested in: ABRAHAM DERKSEN AND RACHEL F. DERKSEN , CO-TRUSTEES UNDER THE ABRAHAM DERKSEN AND RACHEL F. DERKSEN FAMILY LIVING REVOCABLE TRUST
and, as disclosed in the Public Records, has been since 10/21/2016

The Land is described as follows: SEE ATTACHED EXHIBIT "A"

SURVEY CERTIFIED TO:

APC TOWER IV, LLC
OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY

SURVEYOR CERTIFICATION

I CERTIFY THAT THIS PLAT AND SURVEY WERE MADE BY ME UNDER MY SUPERVISION, AND THAT THE ANGULAR AND LINEAR MEASUREMENTS, AS WITNESSED BY MONUMENTS SHOWN HEREON, ARE TRUE AND CORRECT TO THE BEST OF MY ABILITY AND BELIEF. THIS SURVEY AND PLAT MEETS OR EXCEEDS THE MINIMUM STANDARDS OF THE GOVERNING AUTHORITIES.

SURVEYOR STATEMENT-MY COMMENTS ARE BASED SOLELY ON THE TITLE DOCUMENT THAT HAVE BEEN SUPPLIED TO ME BY THE TITLE COMPANY. SINCE THE TITLE DOCUMENTS ARE FURNISHED FOR THE PARENT TRACT, OUR TOPOGRAPHIC SURVEY IS OF A PORTION OF THAT TRACT. MY COMMENTS ARE RESTRICTED TO EXCLUSIONS THAT I CAN DETERMINE AFFECT ONLY OUR PORTION OF THE PARENT TRACT. NO BOUNDARY SURVEY WAS PERFORMED ON THE PARENT TRACT. THUS IT IS NOT POSSIBLE TO DETERMINE WITH CERTAINTY EXCLUSIONS REFERENCING THE PARENT TRACT.

SCHEDULE "B" SECTION II EXCEPTIONS

ITEM NO 1-(NOT A SURVEYOR RELATED ITEM)

2. FACTS WHICH WOULD BE DISCLOSED BY A COMPREHENSIVE SURVEY OF THE PREMISES HEREIN DESCRIBED.(BENCHMARK SERVICES, INC WAS HIRED TO CREATE LEASE AREA AND ACCESS & UTILITY EASEMENTS. NO BOUNDARY SURVEY WAS COMPLETED)

ITEMS 3 THRU 9-(NOT A SURVEYOR RELATED ITEM)

10. RIGHT-OF-WAY EASEMENT IN FAVOR OF WEBSTER COUNTY WATER DISTRICT, RECORDED 03/07/2003 IN BOOK 248 PAGE 456, OF THE WEBSTER COUNTY RECORDS. (UNABLE TO COMMENT. SUPPORTING DOCS LINK HAS EXPIRED)

PARENT PARCEL DESCRIPTION FURNISHED TO BENCHMARK SERVICES, INC NO SURVEY WAS PERFORMED

SITUATED IN THE COUNTY OF WEBSTER AND COMMONWEALTH OF KENTUCKY, TO WIT:
BEGINNING AT A WHITE OAK AND BLACK GUM; THENCE SOUTH 80 DEGREES WEST, 58 POLES AND 18 LINKS TO A STAKE IN THE ORIGINAL LINE; THENCE NORTH 15 DEGREES WEST, 46 POLES TO A STAKE ON A DITCH; THENCE NORTH 85 DEGREES EAST, 25 POLES TO A STAKE IN THE CENTER OF THE CREEK; THENCE DOWN THE CREEK WITH ITS MEANDERS, NORTH 46 DEGREES WEST, 6 POLES; NORTH 12-1/2 DEGREES EAST, 29 POLES, EAST 9 POLES; NORTH 12 DEGREES EAST, 18 POLES; NORTH 18 DEGREES WEST, 11 POLES; NORTH 69 DEGREES WEST, 7 POLES TO A SYCAMORE ON SAID CREEK; THENCE DOWN SAME, NORTH 32 DEGREES EAST, 5 POLES AND 5 LINKS; NORTH 3 DEGREES WEST, 4 POLES; NORTH 32-1/2 DEGREES WEST, 4 POLES; NORTH 1/2 DEGREES EAST, 8 POLES; NORTH 23 DEGREES EAST, 8 POLES; NORTH 21-1/2 DEGREES WEST, 8 POLES; NORTH 33-1/2 DEGREES WEST, 14 POLES; NORTH 23-1/2 DEGREES EAST, 8 POLES; NORTH 61-1/2 DEGREES EAST, 15¬1/2 POLES TO A HICKORY ON THE BANK OF THE CREEK; THENCE SOUTH 62¬3/4 DEGREES EAST, 44 POLES TO A BLACK GUM; THENCE EAST 61 POLES TO A WHITE OAK; THENCE SOUTH 50 DEGREES WEST, 85 POLES TO A STAKE; THENCE SOUTH 1 DEGREES WEST, 89 POLES TO THE BEGINNING AND CONTAINING 62 ACRES.

TAX ID: 069-019-000

BEING THE SAME PROPERTY CONVEYED TO ABRAHAM DERKSEN AND RACHEL F. DERKSEN , CO-TRUSTEES UNDER THE ABRAHAM DERKSEN AND RACHEL F. DERKSEN FAMILY LIVING REVOCABLE TRUST, GRANTEE, FROM ABRAHAM DERKSEN (AKA ABE DERKSEN) AND RACHEL F. DERKSEN (AKA RACHEL DERKSEN), HUSBAND AND WIFE, GRANTOR, BY QUIT CLAIM DEED RECORDED 10/21/2016, IN BOOK 297, PAGE 170, OF THE WEBSTER COUNTY RECORDS.

100x100' LEASE AREA DESCRIPTION

A CERTAIN TRACT OF LAND LOCATED ON PARCEL No. 069-019-000, WEBSTER COUNTY, KENTUCKY, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF THE ABOVE TRACT OF LAND, SAID POINT BEING THE INTERSECTION OF THE CENTERLINE OF STATE HIGHWAY 630 AND THE CENTER OF DEER CREEK, SAID POINT HAVING KENTUCKY SINGLE ZONE STATE PLANE COORDINATES OF NORTH 3700744.19 AND EAST 4379816.76; THENCE NORTH 54 DEGREES 36 MINUTES 41 SECONDS WEST 899.51 FEET TO A POINT IN THE CENTER OF SAID ROAD; THENCE NORTH 37 DEGREES 24 MINUTES 09 SECONDS EAST 208.38 FEET TO A POINT ON THE SOUTH LEASE LINE; THENCE SOUTH 90 DEGREES 00 MINUTES 00 SECONDS WEST 18.88 FEET TO THE SOUTHWEST LEASE CORNER AND BEING THE TRUE PLACE OF BEGINNING; THENCE NORTH 00 DEGREES 00 MINUTES 00 SECONDS WEST 100.00 FEET; THENCE NORTH 90 DEGREES 00 MINUTES 00 SECONDS EAST 100.00 FEET; THENCE SOUTH 00 DEGREES 00 MINUTES 00 SECONDS EAST 100.00 FEET; THENCE SOUTH 90 DEGREES 00 MINUTES 00 SECONDS WEST 100.00 FEET TO THE TRUE PLACE OF BEGINNING AND CONTAINING 10,000 SQUARE FEET, (0.23 ACRES), MORE OR LESS.

30' ACCESS & UTILITY EASEMENT DESCRIPTION

A CERTAIN TRACT OF LAND LOCATED ON PARCEL No. 069-019-000, WEBSTER COUNTY, KENTUCKY, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF THE ABOVE TRACT OF LAND, SAID POINT BEING THE INTERSECTION OF THE CENTERLINE OF STATE HIGHWAY 630 AND THE CENTER OF DEER CREEK, SAID POINT HAVING KENTUCKY SINGLE ZONE STATE PLANE COORDINATES OF NORTH 3700744.19 AND EAST 4379816.76; THENCE NORTH 54 DEGREES 36 MINUTES 41 SECONDS WEST 899.51 FEET TO A POINT IN THE CENTER OF SAID ROAD AND BEING THE TRUE PLACE OF BEGINNING OF THIS ACCESS AND UTILITY EASEMENT DESCRIPTION; THENCE ON AND ALONG A LINE 15 FEET ON BOTH SIDES OF THE FOLLOWING DESCRIBED LINE NORTH 37 DEGREES 24 MINUTES 09 SECONDS EAST 208.38 TO A POINT ON THE SOUTH LEASE LINE AND BEING THE TERMINUS. THE SIDELINES SHALL BE LENGTHENED OR SHORTENED TO TERMINATE IN SAID LEASE LINE.

GUY ANCHOR #1 EASEMENT DESCRIPTION

A CERTAIN TRACT OF LAND LOCATED ON PARCEL No. 069-019-000, WEBSTER COUNTY, KENTUCKY, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF THE ABOVE TRACT OF LAND, SAID POINT BEING THE INTERSECTION OF THE CENTERLINE OF STATE HIGHWAY 630 AND THE CENTER OF DEER CREEK, SAID POINT HAVING KENTUCKY SINGLE ZONE STATE PLANE COORDINATES OF NORTH 3700744.19 AND EAST 4379816.76; THENCE NORTH 54 DEGREES 36 MINUTES 41 SECONDS WEST 899.51 FEET TO A POINT IN THE CENTER OF SAID ROAD; NORTH 37 DEGREES 24 MINUTES 09 SECONDS EAST 208.38 TO A POINT ON THE SOUTH LEASE LINE; THENCE SOUTH 90 DEGREES 00 MINUTES 00 SECONDS WEST 18.88 FEET TO THE SOUTHWEST LEASE CORNER; THENCE NORTH 45 DEGREES 00 MINUTES 00 SECONDS EAST 84.85 FEET TO THE CENTER OF TOWER AND BEING THE TRUE PLACE OF BEGINNING OF THIS GUY ANCHOR EASEMENT; THENCE ON AND ALONG A LINE 10 FEET ON BOTH SIDES OF THE FOLLOWING DESCRIBED NORTH 11 DEGREES 16 MINUTES 21 SECONDS WEST 230.00 FEET TO THE TERMINUS.

GUY ANCHOR #2 EASEMENT DESCRIPTION

A CERTAIN TRACT OF LAND LOCATED ON PARCEL No. 069-019-000, WEBSTER COUNTY, KENTUCKY, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF THE ABOVE TRACT OF LAND, SAID POINT BEING THE INTERSECTION OF THE CENTERLINE OF STATE HIGHWAY 630 AND THE CENTER OF DEER CREEK, SAID POINT HAVING KENTUCKY SINGLE ZONE STATE PLANE COORDINATES OF NORTH 3700744.19 AND EAST 4379816.76; THENCE NORTH 54 DEGREES 36 MINUTES 41 SECONDS WEST 899.51 FEET TO A POINT IN THE CENTER OF SAID ROAD; NORTH 37 DEGREES 24 MINUTES 09 SECONDS EAST 208.38 TO A POINT ON THE SOUTH LEASE LINE; THENCE SOUTH 90 DEGREES 00 MINUTES 00 SECONDS WEST 18.88 FEET TO THE SOUTHWEST LEASE CORNER; THENCE NORTH 45 DEGREES 00 MINUTES 00 SECONDS EAST 84.85 FEET TO THE CENTER OF TOWER AND BEING THE TRUE PLACE OF BEGINNING OF THIS GUY ANCHOR EASEMENT; THENCE ON AND ALONG A LINE 10 FEET ON BOTH SIDES OF THE FOLLOWING DESCRIBED SOUTH 71 DEGREES 16 MINUTES 21 SECONDS EAST 230.00 FEET TO THE TERMINUS.

GUY ANCHOR #3 EASEMENT DESCRIPTION

A CERTAIN TRACT OF LAND LOCATED ON PARCEL No. 069-019-000, WEBSTER COUNTY, KENTUCKY, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF THE ABOVE TRACT OF LAND, SAID POINT BEING THE INTERSECTION OF THE CENTERLINE OF STATE HIGHWAY 630 AND THE CENTER OF DEER CREEK, SAID POINT HAVING KENTUCKY SINGLE ZONE STATE PLANE COORDINATES OF NORTH 3700744.19 AND EAST 4379816.76; THENCE NORTH 54 DEGREES 36 MINUTES 41 SECONDS WEST 899.51 FEET TO A POINT IN THE CENTER OF SAID ROAD; NORTH 37 DEGREES 24 MINUTES 09 SECONDS EAST 208.38 TO A POINT ON THE SOUTH LEASE LINE; THENCE SOUTH 90 DEGREES 00 MINUTES 00 SECONDS WEST 18.88 FEET TO THE SOUTHWEST LEASE CORNER; THENCE NORTH 45 DEGREES 00 MINUTES 00 SECONDS EAST 84.85 FEET TO THE CENTER OF TOWER AND BEING THE TRUE PLACE OF BEGINNING OF THIS GUY ANCHOR EASEMENT; THENCE ON AND ALONG A LINE 10 FEET ON BOTH SIDES OF THE FOLLOWING DESCRIBED SOUTH 48 DEGREES 43 MINUTES 39 SECONDS WEST 230.00 FEET TO THE TERMINUS.

APC Towers
RALEIGH, NC 27615

CELLCO PARTNERSHIP, d/b/a
verizon

MISSION 1 COMMUNICATIONS
FT. WAYNE, IN 46804

BENCHMARK SERVICES, INC.
Consulting Engineers
Land Surveyors
318 North Main Street
Huntingburg, IN 47542
(812) 683-3049
benchmark@mw.twcbc.com

SITE NO: KY-1823

SITE NAME: EV HEARTLAND ACADEMY

SITE ADDRESS: STATE ROUTE 630 SLAUGHTERS, KY 42456

LEASE AREA: 10000 SQ. FT.

PROPERTY OWNER: ABRAHAM & RACHAEL F. DERKSEN FAMILY LIVING REVOCABLE TRUST 1206 BECKLEY OSBORNE RD SEBREE, KY 42455

COUNTY: WEBSTER COUNTY

PARCEL NO: 069-019-000

INSTRUMENT NUMBER: DB 297, PAGE 172

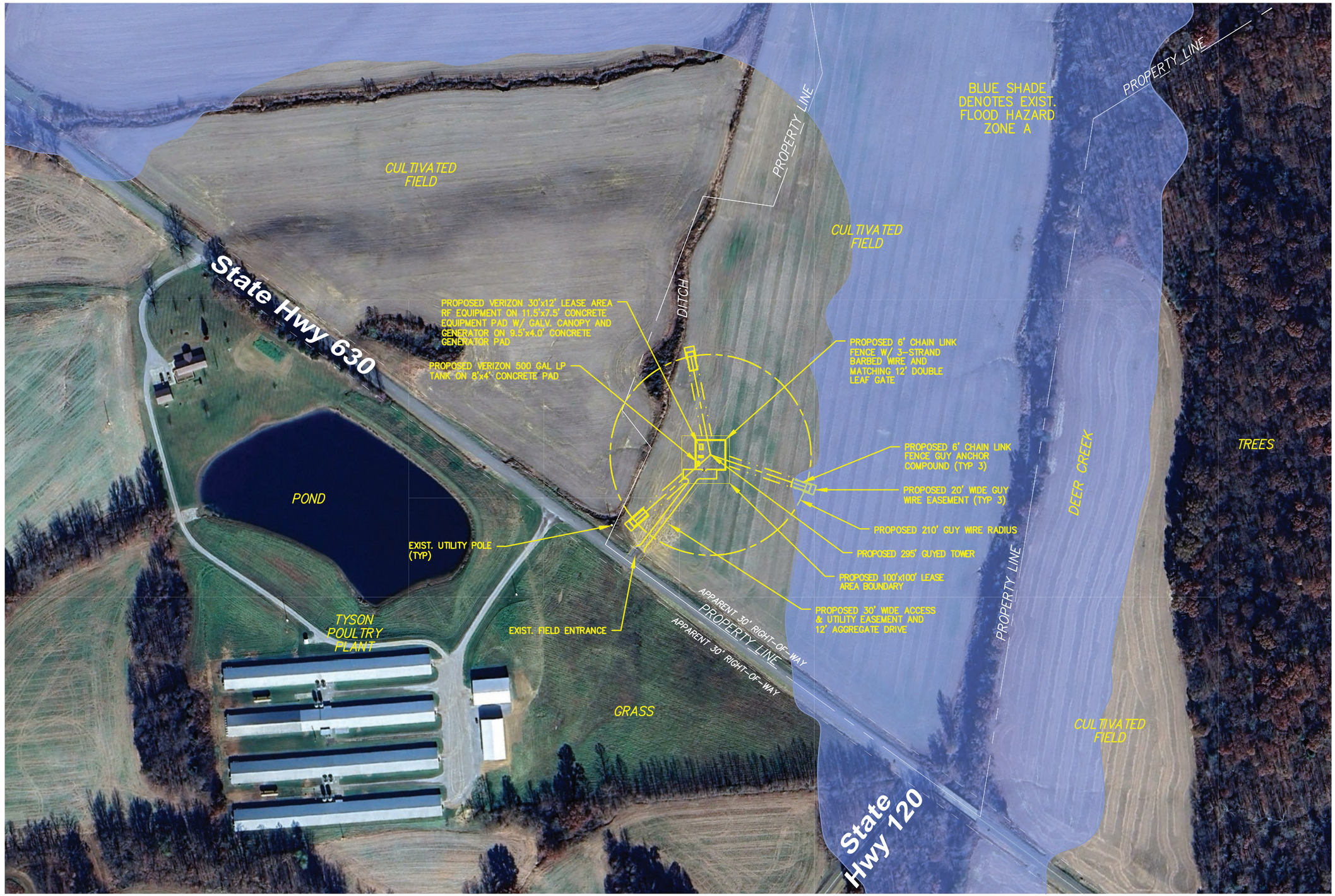
LATITUDE: 37°28'25.38" N
LONGITUDE: 87°37'04.30" W

DWG BY:	CHKD BY:	DATE:
GVW	RMW	12.20.24

NO.	REVISION/ISSUE	DATE:
1.	REVISION	2.14.25
2.	ADD APPROXIMATE FLOOD ZONE LINE	3.6.25
3.	FLOOD NOTE	4.24.25

TITLE: SURVEY PLAN

SHEET: 2 OF 2



Overall Site Plan w/ Aerial Overlay

NORTH

0 100 200 400

1 inch = 200 feet

APC Towers

CELLCO PARTNERSHIP, d/b/a verizon

MISSION 1 COMMUNICATIONS

CERTIFICATION:

STATE OF KENTUCKY
WILLIAM R. HEIDEN III
No. 22430
LICENSED PROFESSIONAL ENGINEER

May 15, 2025

RELEASE		
REV	DATE	
	04-15-2024	LEASE EXHIBIT
	05-13-2025	ZONING DRAWINGS

SITE NAME:

KY-1823
EV HEARTLAND ACADEMY CELL SITE

SITE ADDRESS:

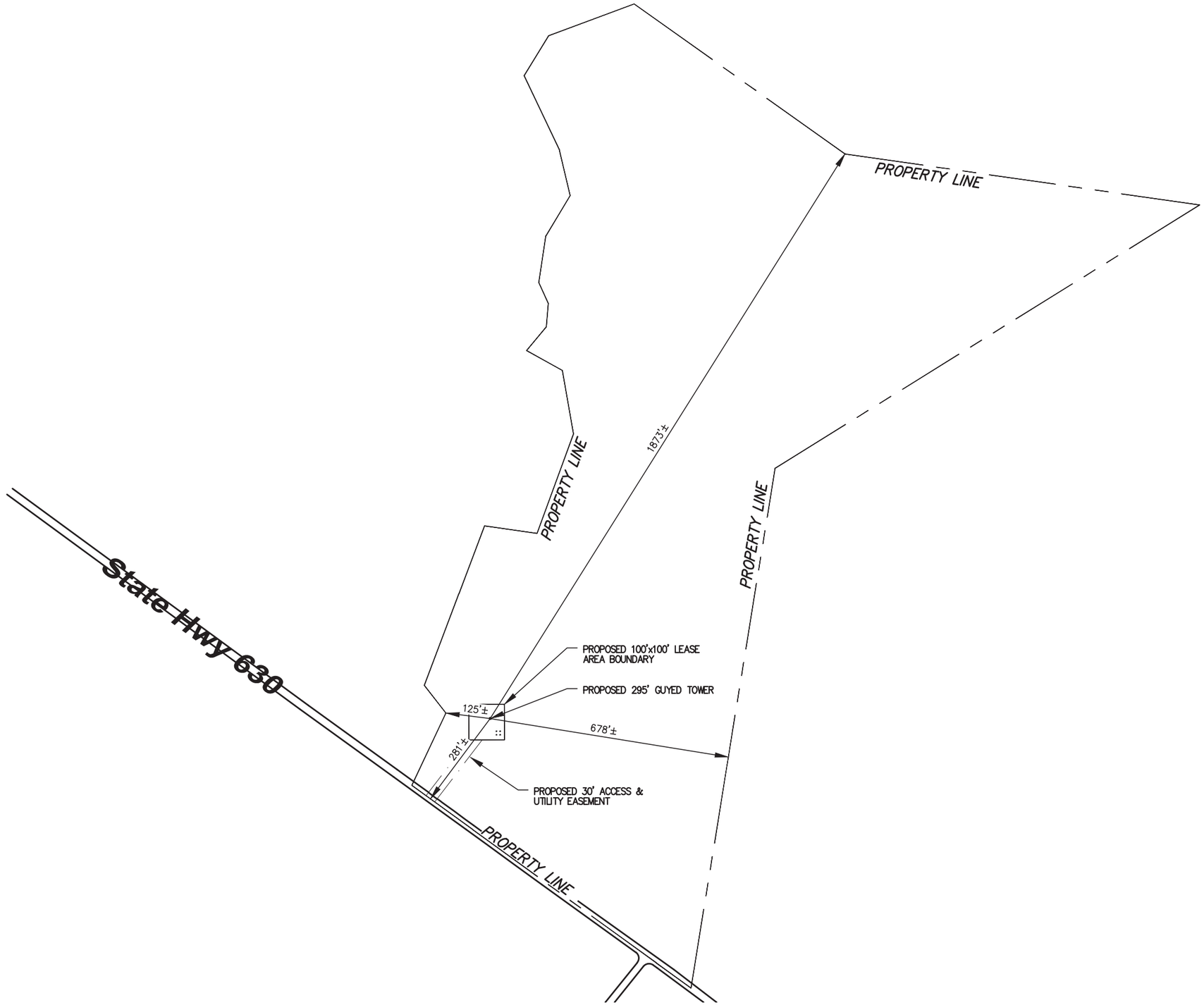
STATE ROUTE 630
SLAUGHTERS, KY 42456

SHEET TITLE:

OVERALL SITE PLAN w/ AERIAL OVERLAY

SHEET NO.:

C-1



Overall Site Plan w/ Tower Distances To Property Lines

NORTH

0 150 300 600

1 inch = 300 feet

APC Towers

CELLCO PARTNERSHIP, d/b/a verizon

MISSION 1 COMMUNICATIONS

CERTIFICATION:

STATE OF KENTUCKY
WILLIAM R. HEIDEN III
No. 22430
LICENSED PROFESSIONAL ENGINEER

May 15, 2025

RELEASE		
REV	DATE	
	04-15-2024	LEASE EXHIBIT
	05-13-2025	ZONING DRAWINGS

SITE NAME:

KY-1823
EV HEARTLAND ACADEMY CELL SITE

SITE ADDRESS:

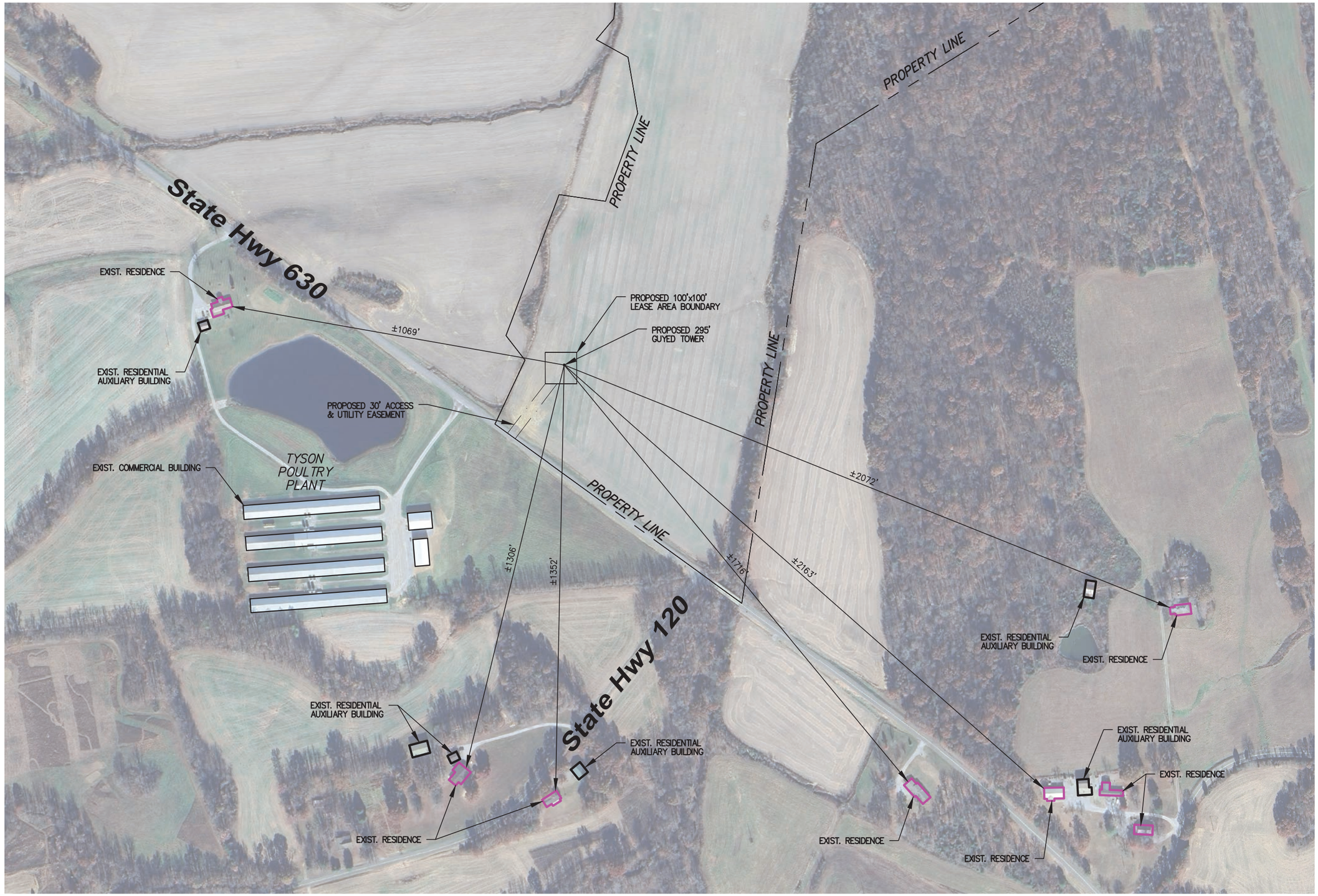
STATE ROUTE 630
SLAUGHTERS, KY 42456

SHEET TITLE:

OVERALL SITE PLAN w/ TOWER DISTANCES TO PROPERTY LINES

SHEET NO.:

C-1A



Overall Site Plan w/ Tower Distances To Residential Structures

NORTH

0 150 300 600

1 inch = 300 feet

APC Towers

CELLCO PARTNERSHIP, d/b/a verizon

MISSION 1 COMMUNICATIONS

CERTIFICATION:

STATE OF KENTUCKY
WILLIAM R. HEIDEN III
No. 22430
LICENSED PROFESSIONAL ENGINEER

May 15, 2025

RELEASE		
REV	DATE	
	04-15-2024	LEASE EXHIBIT
	05-13-2025	ZONING DRAWINGS

SITE NAME:

KY-1823
EV HEARTLAND ACADEMY CELL SITE

SITE ADDRESS:

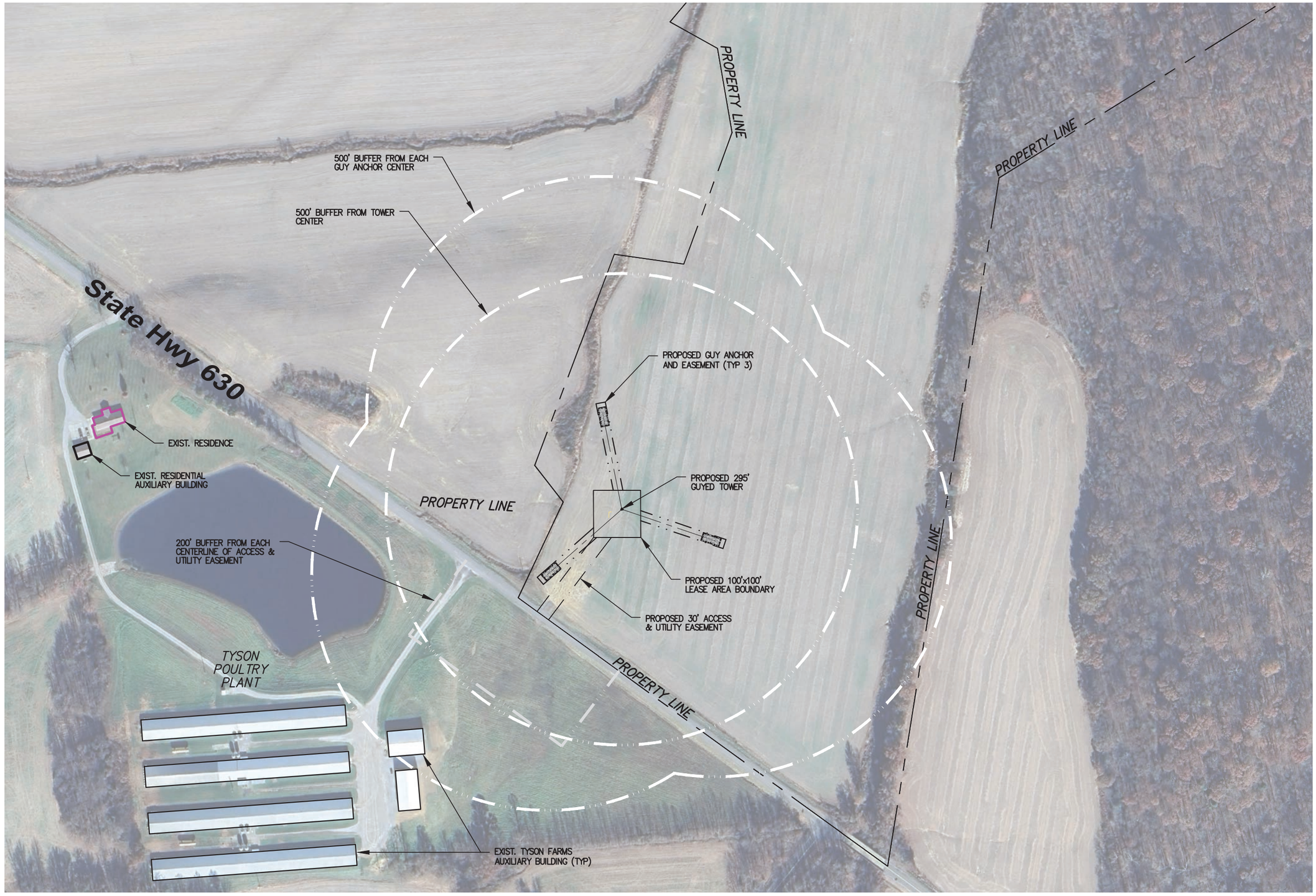
STATE ROUTE 630
SLAUGHTERS, KY 42456

SHEET TITLE:

OVERALL SITE PLAN w/ TOWER DISTANCES TO RESIDENTIAL STRUCTURES

SHEET NO.:

C-1B



Tower And Access Easement Buffer Map

NORTH

0 100 200 400

1 inch = 200 feet

APC Towers

CELLCO PARTNERSHIP, d/b/a verizon

MISSION 1 COMMUNICATIONS

CERTIFICATION:

STATE OF KENTUCKY
WILLIAM R. HEIDEN III
No. 22430
LICENSED PROFESSIONAL ENGINEER

May 15, 2025

RELEASE		
REV	DATE	
	04-15-2024	LEASE EXHIBIT
	05-13-2025	ZONING DRAWINGS

SITE NAME:

KY-1823
EV HEARTLAND ACADEMY CELL SITE

SITE ADDRESS:

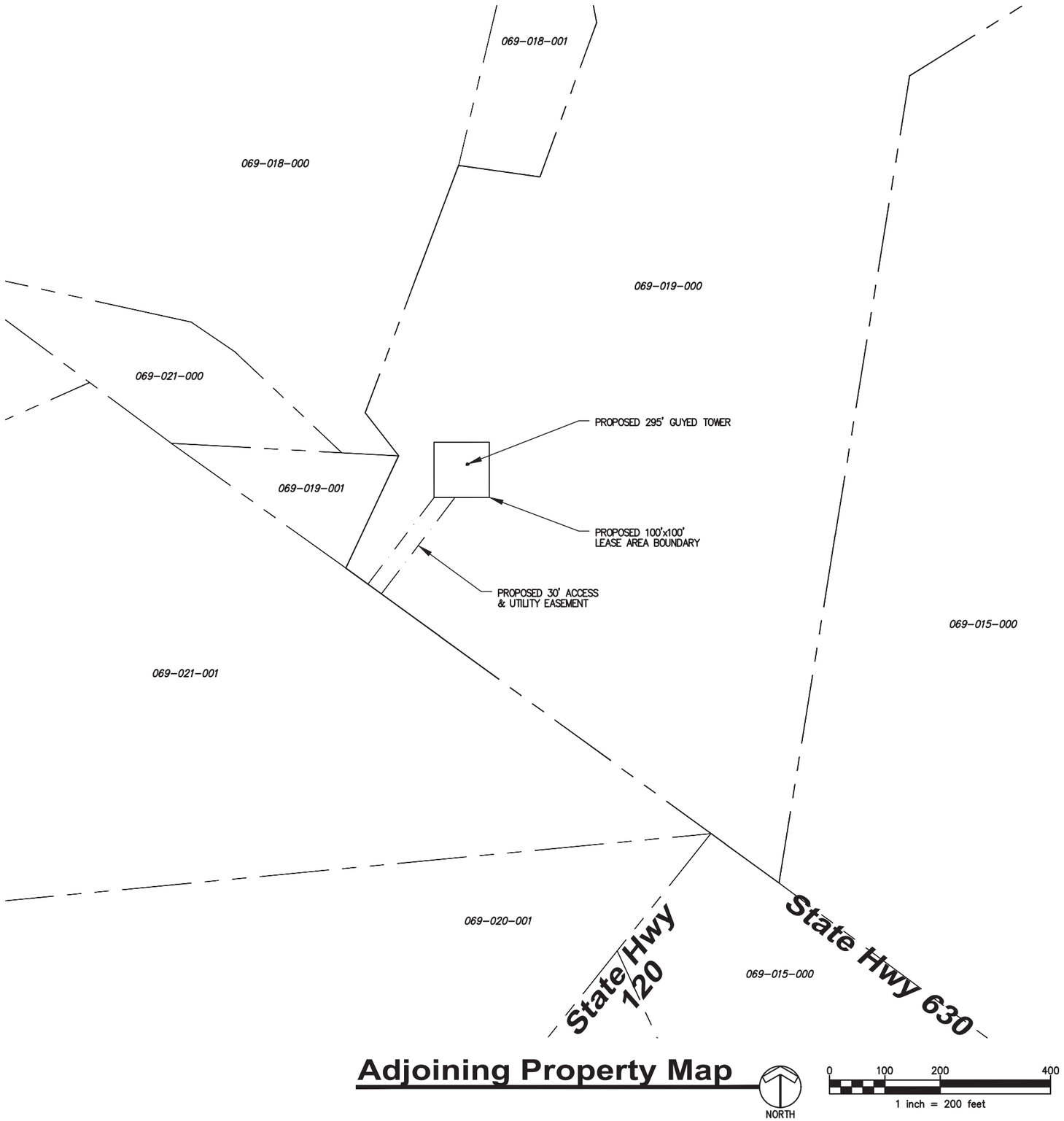
STATE ROUTE 630
SLAUGHTERS, KY 42456

SHEET TITLE:

TOWER AND ACCESS EASEMENT BUFFER MAP

SHEET NO.:

C-1C



Adjoining Property Map

PARCEL NO.	PRIMARY OWNER
069-015-000	GARY & BRENDA OAKLEY IRREVOCABLE TRUST C/O LORI DAVIS, TRUSTEE 972 ROSCOE VEAZEY ROAD MANITOU, KY 42436
069-018-000	CHESTER LEE & WANDA DUNCAN 431 DUNCAN LANE HANSON, KY 42413
069-018-001	ABRAHAM & RACHEL DERKSEN FAMILY REV TRUST 1206 BECKLEY OSBORNE ROAD SEBREE, KY 42455
069-019-000	ABRAHAM & RACHEL F DERKSEN FAMILY LIVING REVOCABLE TRUST 1206 BECKLEY OSBORNE ROAD SEBREE, KY 42455
069-019-001	CHESTER & WANDA FAY DUNCAN 431 DUNCAN LANE HANSON, KY 42413
069-020-001	IKE JAMERSON SHELTON & KAYLA DAWN 7999 STATE ROUTE 120 E NEBO, KY 42441
069-021-000	CHESTER & WANDA FAY DUNCAN 431 DUNCAN LANE HANSON, KY 42413
069-021-001	MERVIN & SARAH E SCHROCK 4840 STATE ROUTE 630 SLAUGHTERS, KY 42456

NOTE

ALL OWNER INFORMATION SHOWN HEREON IS BASED ON PROPERTY OWNERSHIP RECORDS PER BEACON-SCHNEIDER CORP WEBSTER COUNTY, KY PVA, JANUARY 29, 2025.

THIS MAP IS FOR GENERAL INFORMATION PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.

THIS MAP IS NOT INTENDED TO BE USED FOR LAND TRANSFER.

APC Towers

CELLCO PARTNERSHIP, d/b/a verizon

MISSION 1 COMMUNICATIONS

CERTIFICATION:

STATE OF KENTUCKY
WILLIAM R. HEIDEN III
No. 22430
LICENSED PROFESSIONAL ENGINEER

May 15, 2025

RELEASE		
REV	DATE	
	04-15-2024	LEASE EXHIBIT
	05-13-2025	ZONING DRAWINGS

SITE NAME:

KY-1823
EV HEARTLAND ACADEMY CELL SITE

SITE ADDRESS:

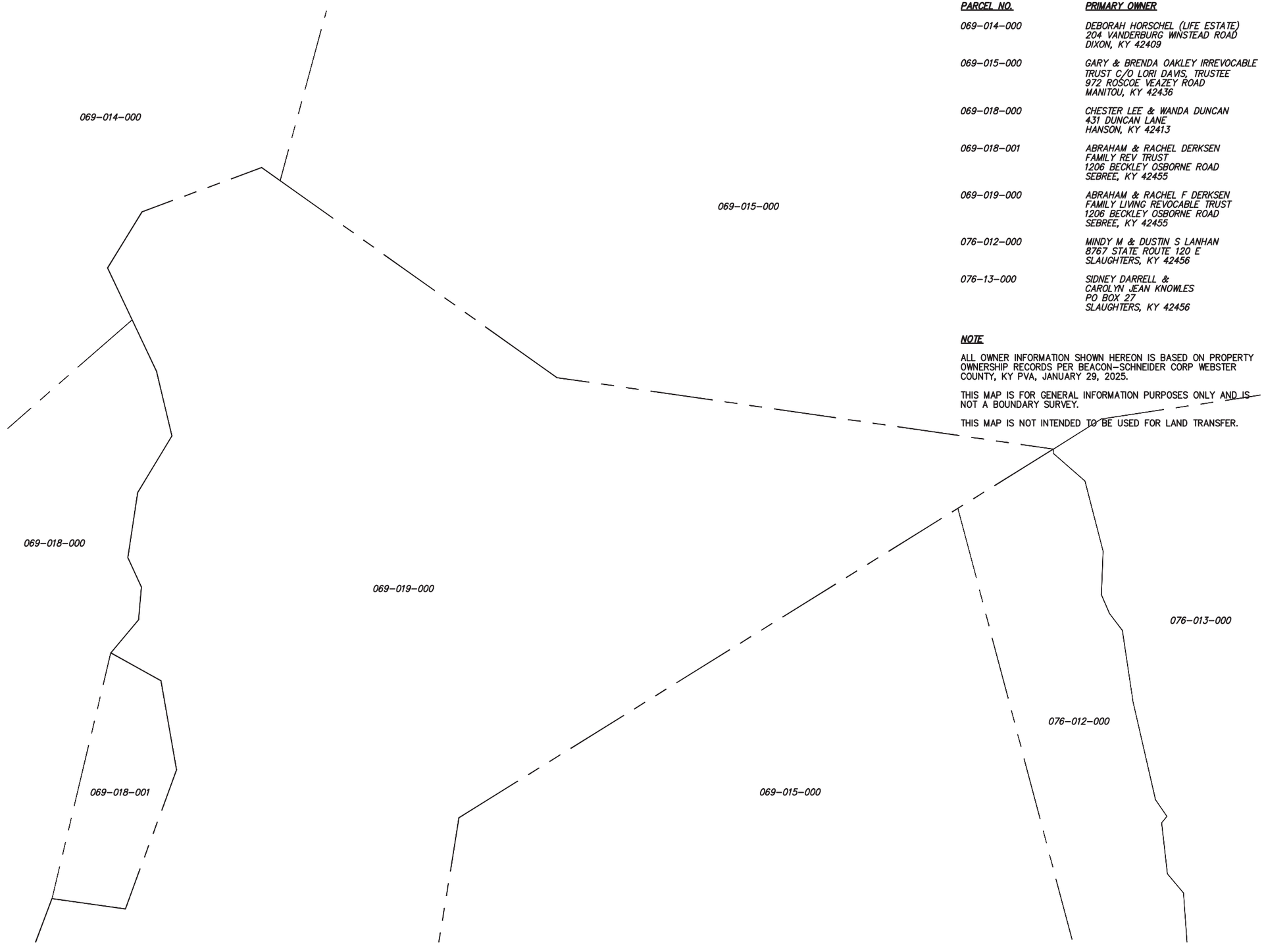
STATE ROUTE 630
SLAUGHTERS, KY 42456

SHEET TITLE:

ADJOINING PROPERTY MAP

SHEET NO.:

C-1D



PARCEL NO.	PRIMARY OWNER
069-014-000	DEBORAH HORSCHEL (LIFE ESTATE) 204 VANDERBURG WINSTEAD ROAD DIXON, KY 42409
069-015-000	GARY & BRENDA OAKLEY IRREVOCABLE TRUST C/O LORI DAVIS, TRUSTEE 972 ROSCOE VEAZEY ROAD MANITOU, KY 42436
069-018-000	CHESTER LEE & WANDA DUNCAN 431 DUNCAN LANE HANSON, KY 42413
069-018-001	ABRAHAM & RACHEL DERKSEN FAMILY REV TRUST 1206 BECKLEY OSBORNE ROAD SEBREE, KY 42455
069-019-000	ABRAHAM & RACHEL F DERKSEN FAMILY LIVING REVOCABLE TRUST 1206 BECKLEY OSBORNE ROAD SEBREE, KY 42455
076-012-000	MINDY M & DUSTIN S LANHAN 8767 STATE ROUTE 120 E SLAUGHTERS, KY 42456
076-13-000	SIDNEY DARRELL & CAROLYN JEAN KNOWLES PO BOX 27 SLAUGHTERS, KY 42456

NOTE

ALL OWNER INFORMATION SHOWN HEREON IS BASED ON PROPERTY OWNERSHIP RECORDS PER BEACON-SCHNEIDER CORP WEBSTER COUNTY, KY PVA, JANUARY 29, 2025.

THIS MAP IS FOR GENERAL INFORMATION PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.

THIS MAP IS NOT INTENDED TO BE USED FOR LAND TRANSFER.

Adjoining Property Map

NORTH

0 100 200 400

1 inch = 200 feet

APC Towers

CELLCO PARTNERSHIP, d/b/a verizon

MISSION 1 COMMUNICATIONS

CERTIFICATION:

STATE OF KENTUCKY
WILLIAM R. HEIDEN III
No. 22430
LICENSED PROFESSIONAL ENGINEER

May 15, 2025

RELEASE		
REV	DATE	
	04-15-2024	LEASE EXHIBIT
	05-13-2025	ZONING DRAWINGS

SITE NAME:

KY-1823
EV HEARTLAND ACADEMY CELL SITE

SITE ADDRESS:

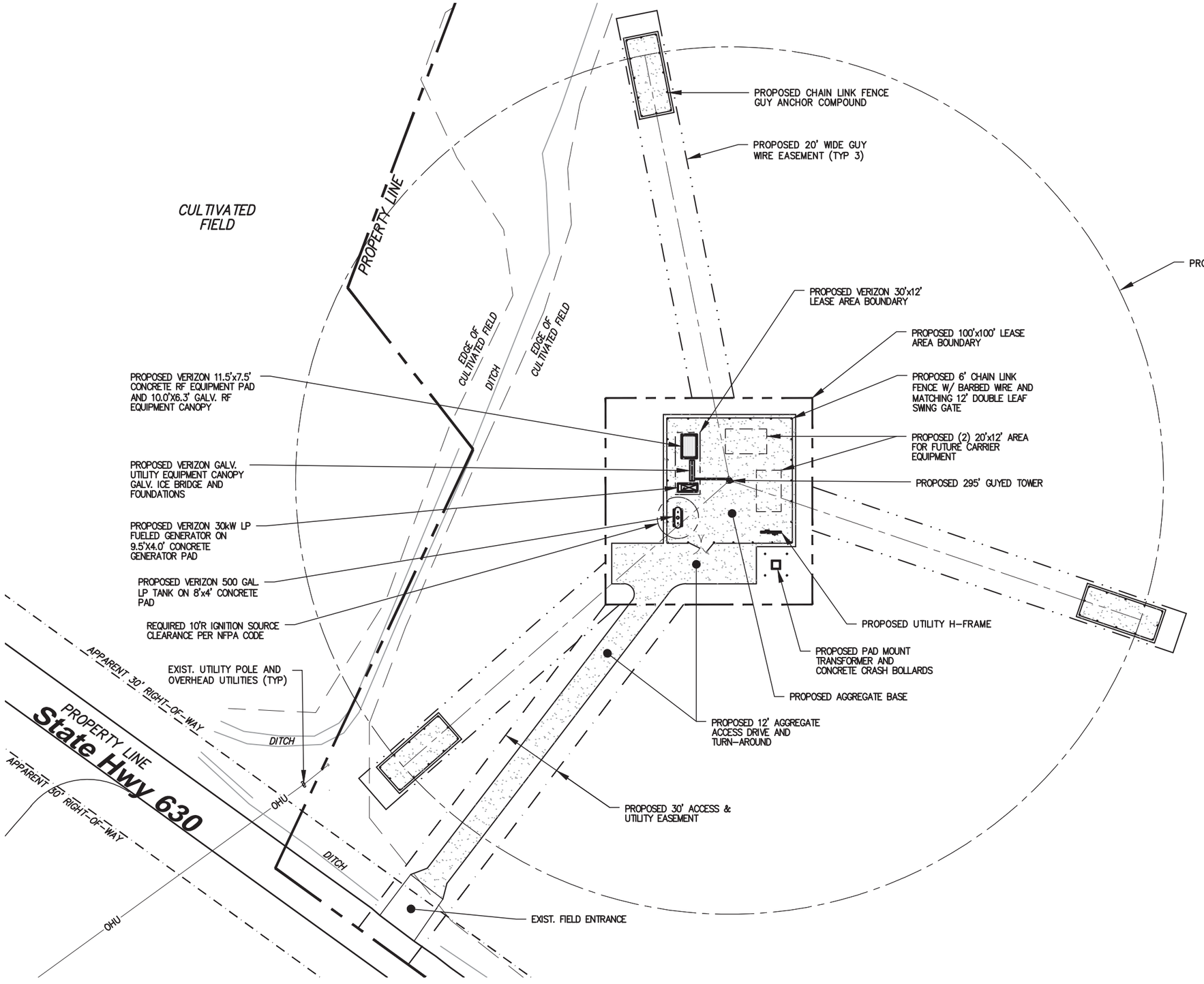
STATE ROUTE 630
SLAUGHTERS, KY 42456

SHEET TITLE:

ADJOINING PROPERTY MAP

SHEET NO.:

C-1E



Detailed Site Plan

NORTH

0 25 50 100

1 inch = 50 feet

Kentucky 811

Call 811 or
(800) 752-6007 Toll Free
48 Hours Prior To Digging

APC Towers

CELLCO PARTNERSHIP, d/b/a verizon

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SITE NAME:

KY-1823
EV HEARTLAND ACADEMY CELL SITE

SITE ADDRESS:

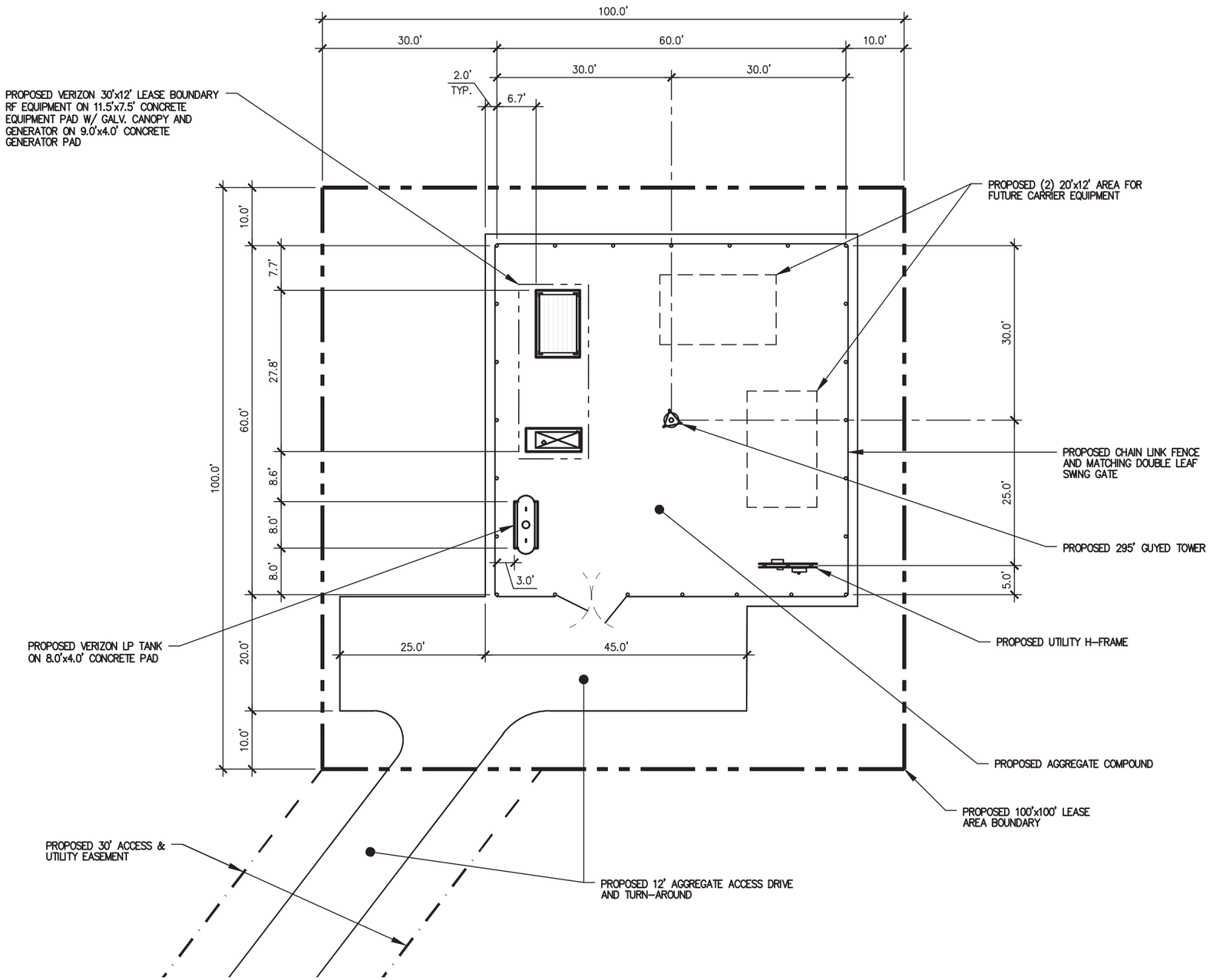
STATE ROUTE 630
SLAUGHTERS, KY 42456

SHEET TITLE:

DETAILED SITE PLAN

SHEET NO.:

C-2



Dimensioned Site Plan

APC Towers

CELLCO PARTNERSHIP, d/b/a
verizon

MISSION 1 COMMUNICATIONS

CERTIFICATION:

STATE OF KENTUCKY
WILLIAM R. HEIDEN III
No. 22430
LICENSED PROFESSIONAL ENGINEER

May 15, 2025

RELEASE		
REV	DATE	
	04-15-2024	LEASE EXHIBIT
	05-13-2025	ZONING DRAWINGS

SITE NAME:

KY-1823
EV HEARTLAND ACADEMY CELL SITE

SITE ADDRESS:

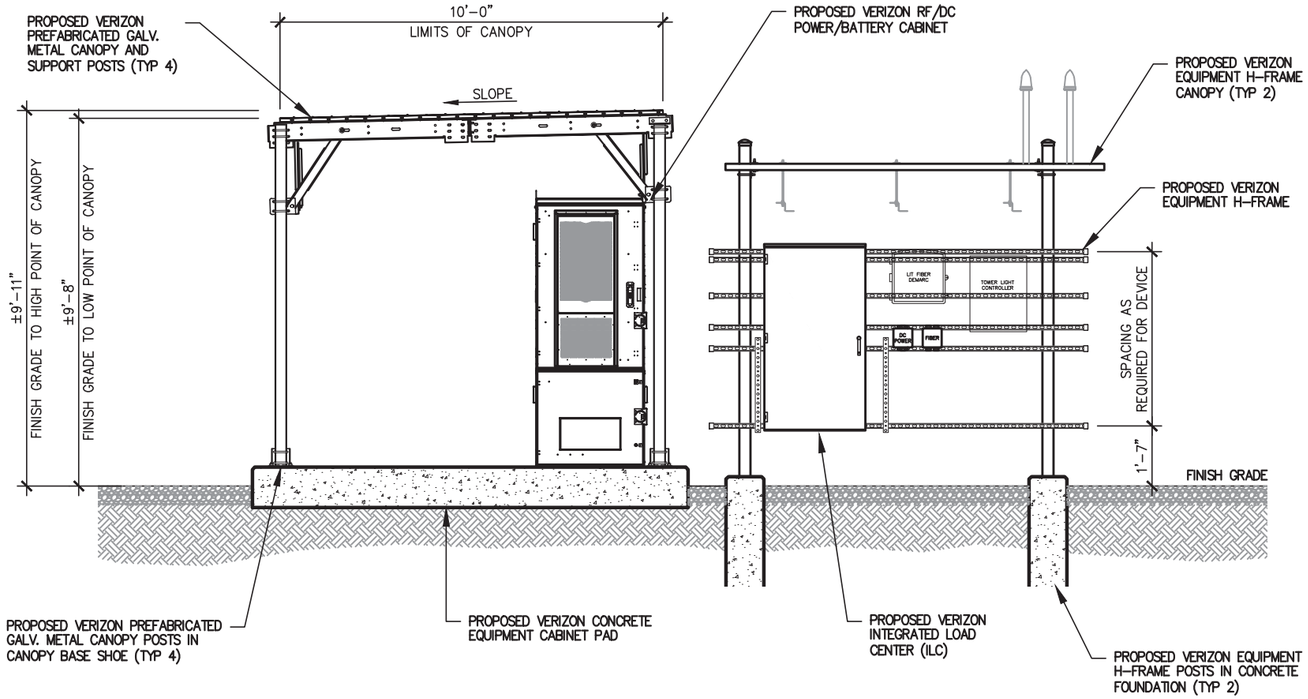
STATE ROUTE 630
SLAUGHTERS, KY 42456

SHEET TITLE:

DIMENSIONED SITE PLAN

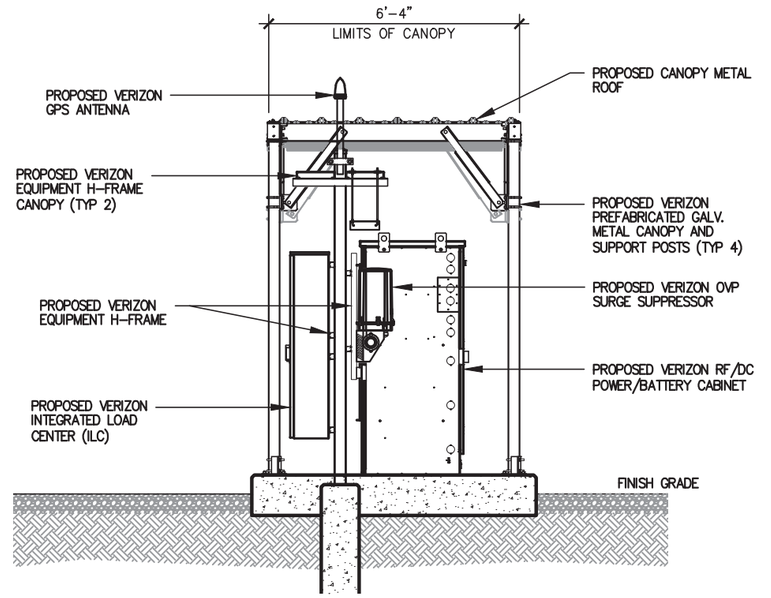
SHEET NO.:

C-3



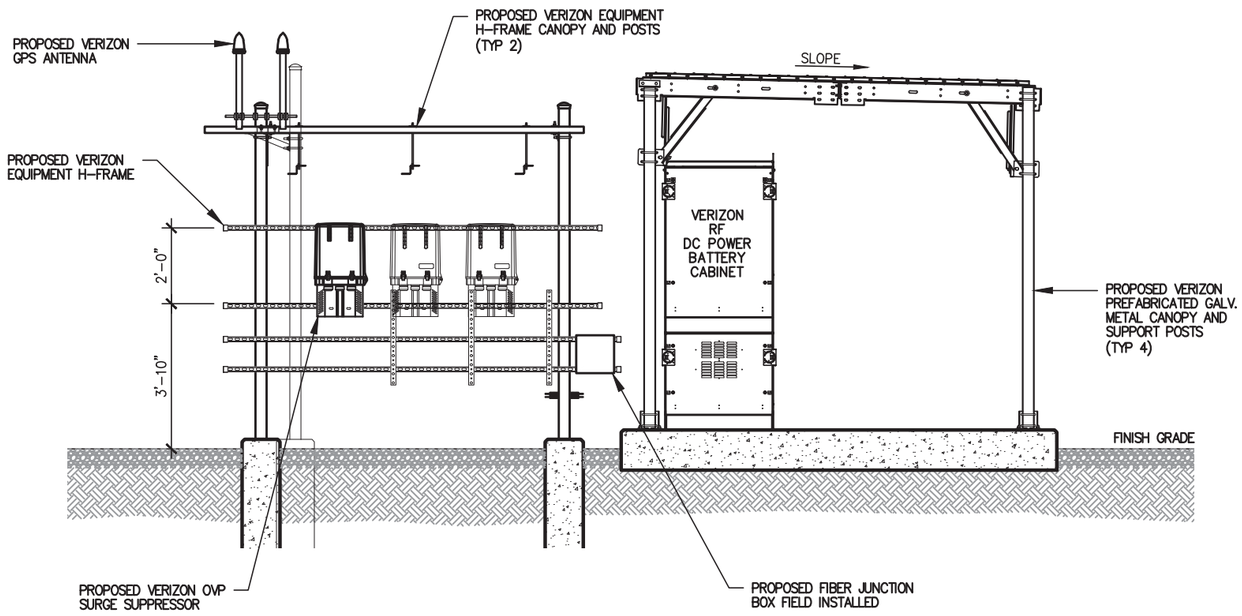
1 Equipment Front Elevation

SCALE: 1/4" = 1'-0"



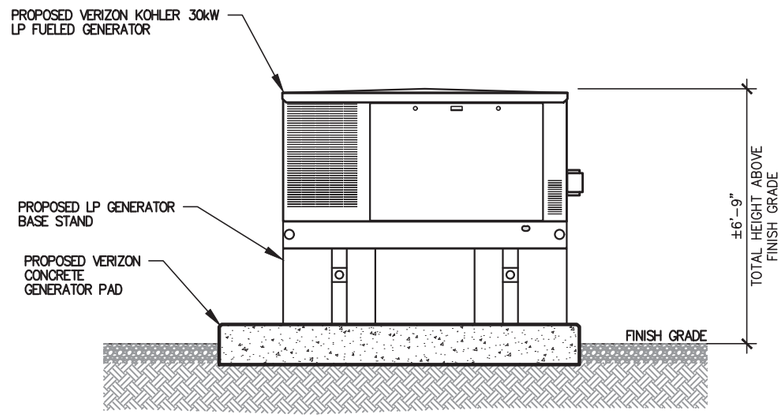
2 Equipment Right Elevation

SCALE: 1/4" = 1'-0"



3 Equipment Rear Elevation

SCALE: 1/4" = 1'-0"



4 Generator Elevation

SCALE: 1/4" = 1'-0"

APC Towers

CELLCO PARTNERSHIP, d/b/a verizon

MISSION 1 COMMUNICATIONS

CERTIFICATION:

STATE OF KENTUCKY
WILLIAM R. HEIDEN III
No. 22430
LICENSED PROFESSIONAL ENGINEER

May 15, 2025

RELEASE		
REV	DATE	
	04-15-2024	LEASE EXHIBIT
	05-13-2025	ZONING DRAWINGS

SITE NAME:

KY-1823
EV HEARTLAND ACADEMY CELL SITE

SITE ADDRESS:

STATE ROUTE 630
SLAUGHTERS, KY 42456

SHEET TITLE:

VERIZON EQUIPMENT PAD AND CANOPY ELEVATIONS

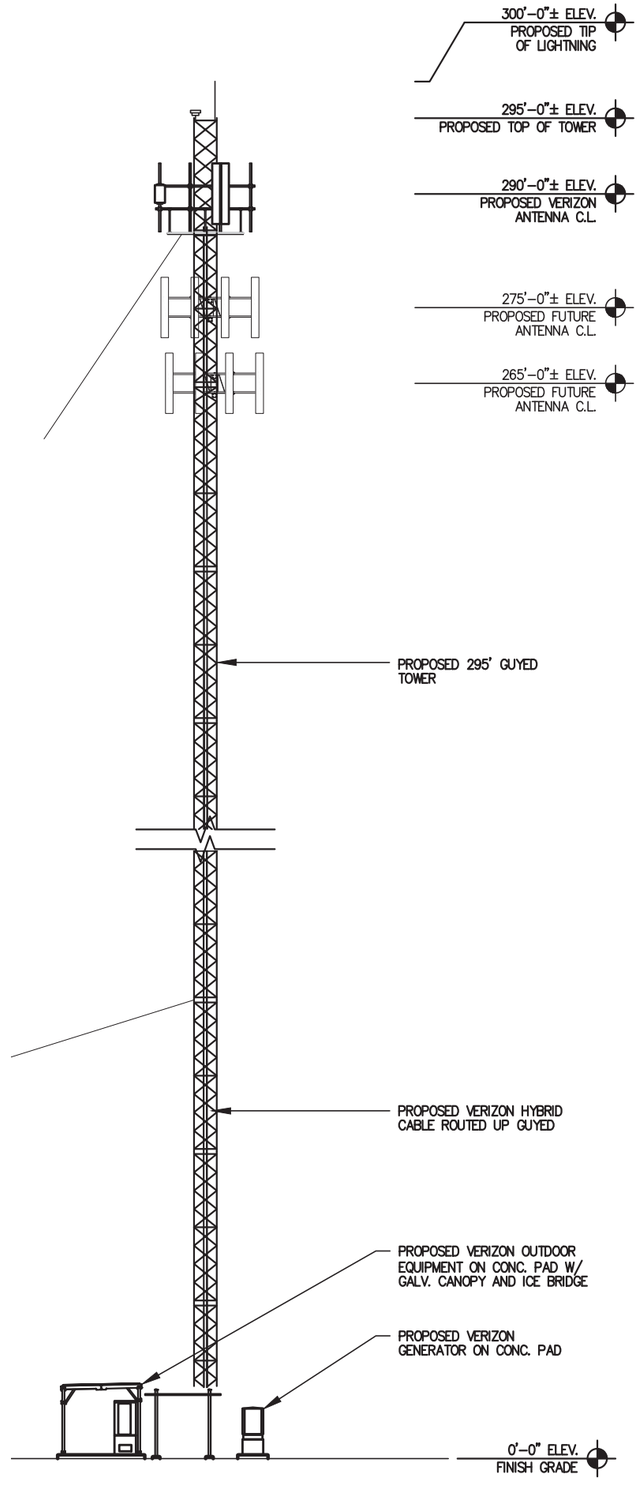
SHEET NO.:

D-1

General Notes

1. VERIFY EACH COAXIAL CABLE LENGTH, ROUTING, AND ALL MOUNTING APPURTENANCES WITH OWNER PRIOR TO ORDERING.
2. COLOR CODE ALL MAIN CABLES, VERIFY COLOR CODES WITH VERIZON CONSTRUCTION MANAGER. CABLES TO BE TAGGED IN TWO (2) LOCATIONS:
   A. AT OVP AT ANTENNA ELEVATION
   B. AT OVP ON EQUIPMENT H-FRAME ADJACENT TO RF CABINETS
3. EACH COAX CABLE SHALL BE SUPPORTED WITH COLUMN GRIP HUNG FROM A J-HOOK AT THE TOP OF THE TOWER.
4. EACH COAX CABLE SHALL BE GROUNDED AT THREE (3) LOCATIONS:
   A. TOWER PLATFORM OR T-FRAME
   B. TOWER BASE
   C. AT EQUIPMENT LOCATION PRIOR TO TERMINATING AT OVP MOUNTED ON EQUIPMENT H-FRAME
5. COAX CABLE TO BE SUPPORTED EVERY 3' O.C. ON PLATFORM OR T-FRAME WITH STAINLESS STEEL HANGERS.
6. COAX CABLES TO BE SUPPORTED ON THE TOWER EVERY 18" WITH STAINLESS STEEL HANGERS.
7. VERIZON COAX CABLE TO BE ROUTED UP FACE OF GUYED TOWER.
8. REFER TO STRUCTURAL ANALYSIS REPORT FOR ADDITIONAL INFORMATION PERFORMED BY:
   NOT AVAILABLE AT THIS TIME OF RELEASE
9. REFER TO MOUNT ANALYSIS REPORT FOR ADDITIONAL INFORMATION PERFORMED BY:
   NOT AVAILABLE AT THIS TIME OF RELEASE

TOWER STRUCTURE AND FOUNDATIONS DESIGNED BY OTHERS



Tower Elevation

SCALE: 1" = 20'-0"

APC Towers

CELLCO PARTNERSHIP, d/b/a verizon

MISSION 1 COMMUNICATIONS

CERTIFICATION:

STATE OF KENTUCKY
WILLIAM R. HEIDEN III
No. 22430
LICENSED PROFESSIONAL ENGINEER

May 15, 2025

RELEASE		
REV	DATE	
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SITE NAME:

KY-1823
EV HEARTLAND ACADEMY CELL SITE

SITE ADDRESS:

STATE ROUTE 630
SLAUGHTERS, KY 42456

SHEET TITLE:

TOWER ELEVATION, NOTES AND DETAILS

SHEET NO.:

TE-1

EXHIBIT C

CONSTRUCTION MANAGER LETTER
LIST OF QUALIFIED PROFESSIONALS
TOWER AND FOUNDATION DESIGN

February 4 ,2025

Daniel J. Kunz
Senior Construction Manager
APC Towers, LLC
8601 Six Forks Road, Suite 250
Raleigh, NC 27501
www.apctowers.com

RE:

To Whom It May Concern,

APC Towers, one of the top private national tower developers in the country, is a “build to suit”, carrier-centric organization focused on developing BTS sites. APC Towers is a national tower developer whose core business is building and acquiring tower sites. In addition, APC specializes in acquiring revenue-generating towers and managing existing towers, rooftops, and real estate portfolios for commercial landlords. Backed by over 50 years of experience from our leadership team, APC Towers focuses on delivering the most value, while anticipating obstacles and finding solutions to quickly enable carriers to deploy their network and exceed timelines. Based in Raleigh, NC, APC owns, operates and provides services for sites across 37 states, with over 1,000 +- structures in its portfolio.

APC has worked with Local, State, and Federal jurisdiction as well as public and private entities, on multiple projects and we are excited to be on this project and working hand in hand and further developing our business
relationship.

Please do not hesitate to contact me with any questions that you may have. My contact information can be found below.

Cordially,
Daniel J. Kunz
Senior Project Manager
APC Towers, LLC
dkunz@apctowers.com
D: (919) 249-7732
C: (919) 796-7240

EV Heartland Academy – List of Qualified Professionals

William R. Heiden III
Kentucky Licensed Professional
Engineer License #22430
Mission 1 Engineering PC
592 W Perry Road
Ligonier, IN 46767

Ralph M. Wallem
Kentucky Licensed Professional Land Surveyor
License #2195
Benchmark Services, Inc.
318 North Main Street
Huntingburg, IN 47542

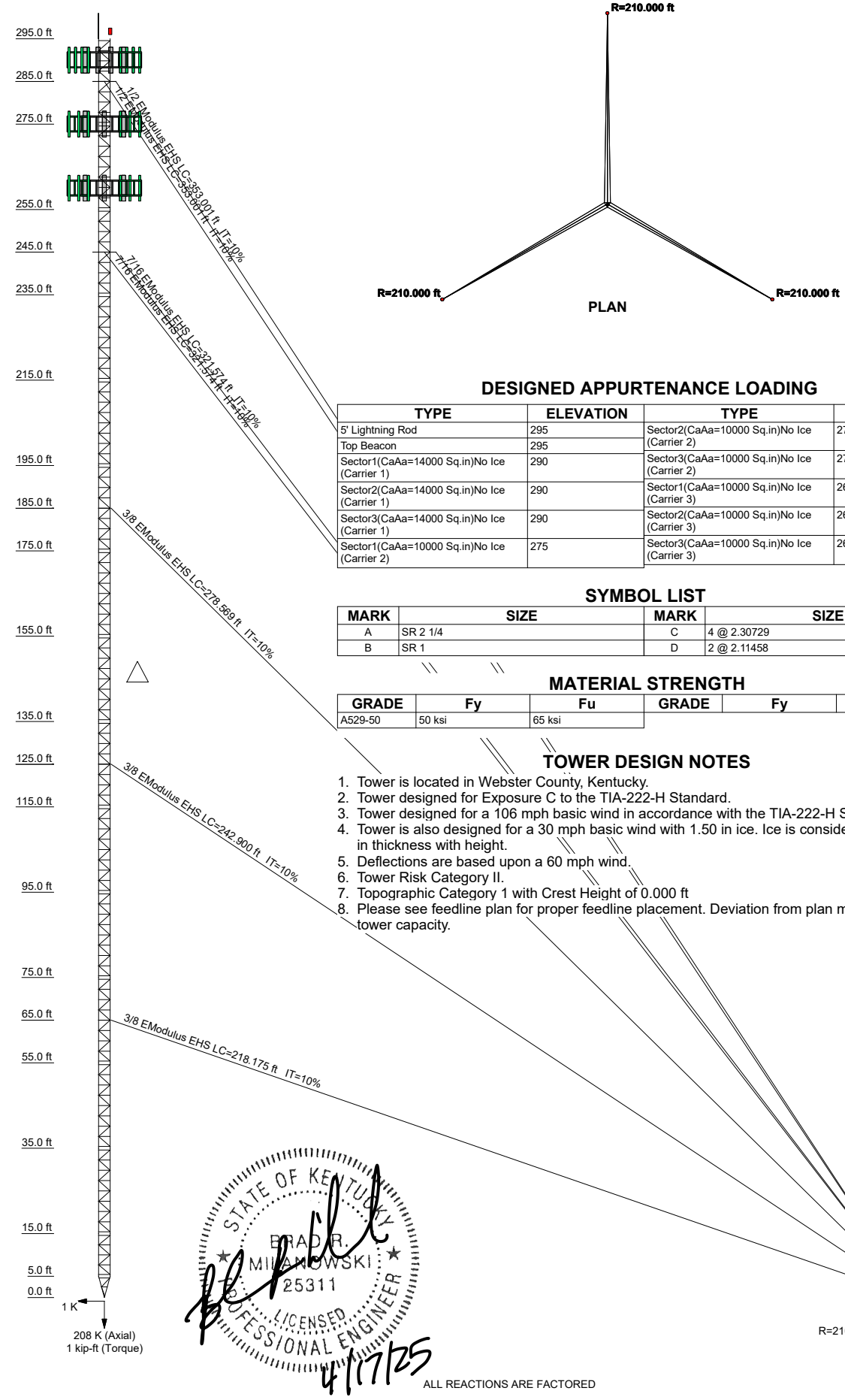
Daniel J. Kunz
Senior Construction Manager APC
Towers, LLC
8601 Six Forks Road, Suite 250
Raleigh, NC 27501

Athulya Balarkishnan
Kentucky Licensed Professional Engineer
License #39178
Environmental Corp. of America
1375 Union Hill Industrial Court
Alpharetta, GA 30004

Marvin G. Webster
President of Environmental Corp. of America
1375 Union Hill Industrial Court
Alpharetta, GA 30004

Brad Milanowski
Kentucky Licensed Professional Engineer
License #25311
B + T Group Inc
1717 S Boulder Ave, Suite 300
Tulsa, OK 74119

Antonino Ramos
RF Engineer
Verizon Wireless
2421 Holloway Road
Louisville, Kentucky 40299



Section	T16	T15	T14	T13	T12	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1
Legs	A								SR 1 3/4							
Leg Grade									A529-50							
Diagonals	B							SR .75							SR 1	
Diagonal Grade									A529-50							
Top Girts									SR 3/4							
Bottom Girts									SR 3/4							
Horizontals									SR 3/4							
Top Guy Pull-Offs			N.A.		4x5/8		N.A.	4x5/8	N.A.		4x5/8	N.A.		4x5/8	N.A.	4x5/8
Face Width (ft)										112 @ 2.40365						3
# Panels @ (ft)	D	C														
Weight (K)	12.6	0.3	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.3	0.9	1.3

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
5' Lightning Rod	295	Sector2(CaAa=10000 Sq.in)No Ice (Carrier 2)	275
Top Beacon	295	Sector3(CaAa=10000 Sq.in)No Ice (Carrier 2)	275
Sector1(CaAa=14000 Sq.in)No Ice (Carrier 1)	290	Sector1(CaAa=10000 Sq.in)No Ice (Carrier 3)	260
Sector2(CaAa=14000 Sq.in)No Ice (Carrier 1)	290	Sector2(CaAa=10000 Sq.in)No Ice (Carrier 3)	260
Sector3(CaAa=14000 Sq.in)No Ice (Carrier 1)	290	Sector3(CaAa=10000 Sq.in)No Ice (Carrier 3)	260
Sector1(CaAa=10000 Sq.in)No Ice (Carrier 2)	275		

SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	SR 2 1/4	C	4 @ 2.30729
B	SR 1	D	2 @ 2.11458

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower is located in Webster County, Kentucky.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 106 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 30 mph basic wind with 1.50 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 0.000 ft
8. Please see feedline plan for proper feedline placement. Deviation from plan may reduce tower capacity.

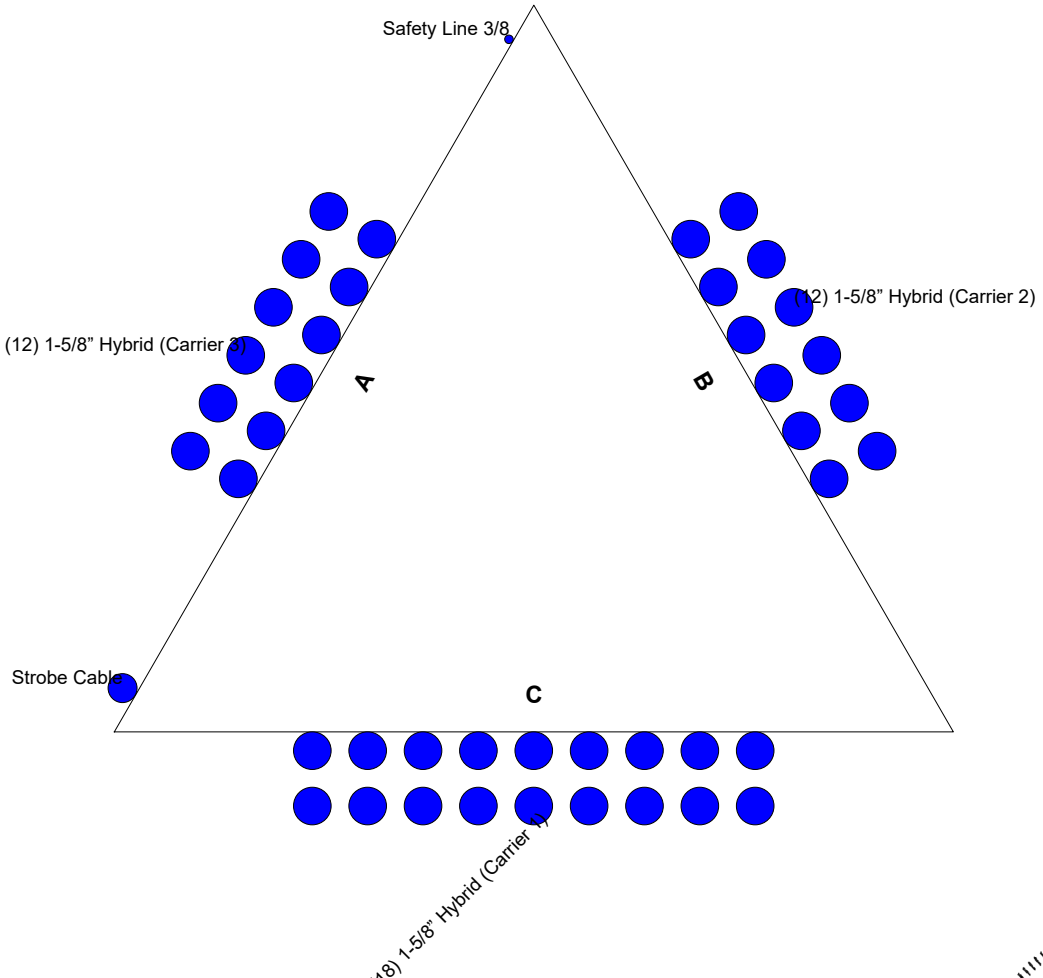
ALL REACTIONS ARE FACTORED

ARCOSA
TELECOM STRUCTURES

B+T Group
1717 S Boulder Ave, Suite 300
Tulsa, OK 74119
Phone: (918) 587-4630
FAX: (918) 295-0265

Job: *ATS #B653 - EV Heartland Academy (Site# KY-1823*			
Project: *295' 36G*			
Client: APC Towers	Drawn by: jlandon	App'd:	
Code: TIA-222-H	Date: 04/17/25	Scale: NTS	
Path: S:\Projects\Arcosa Telecom Structures\Heartland Academy_B653\Engineering\tnxTower\0325-095_295360_EV Heartland Academy.eri		Dwg No. E-1	

Feed Line Plan



STATE OF KENTUCKY
BRAD R. MILANOWSKI
25311
LICENSED PROFESSIONAL ENGINEER
4/17/25

ARCOSA
TELECOM STRUCTURES

B+T GRP
B+T Group
1717 S Boulder Ave, Suite 300
Tulsa, OK 74119
Phone: (918) 587-4630
FAX: (918) 295-0265

Job: ***ATS #B653 - EV Heartland Academy (Site# KY-1823***			
Project: ***295' 36G***			
Client: APC Towers	Drawn by: jlandon	App'd:	
Code: TIA-222-H	Date: 04/17/25	Scale: NTS	
Path: S:\Projects\Arcosa Telecom Structures\Heartland Academy_B653\Engineering\tnxTower\0325-095_295360_EV Heartland Academy.eri		Dwg No. E-7	

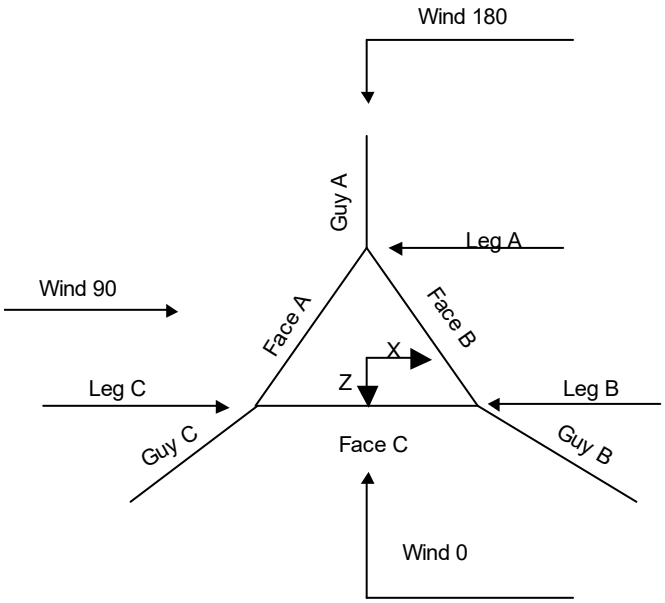
Tower Input Data

The main tower is a 3x guyed tower with an overall height of 295.000 ft above the ground line.
The base of the tower is set at an elevation of 0.000 ft above the ground line.
The face width of the tower is 3.000 ft at the top and tapered at the base.
This tower is designed using the TIA-222-H standard.
The following design criteria apply:

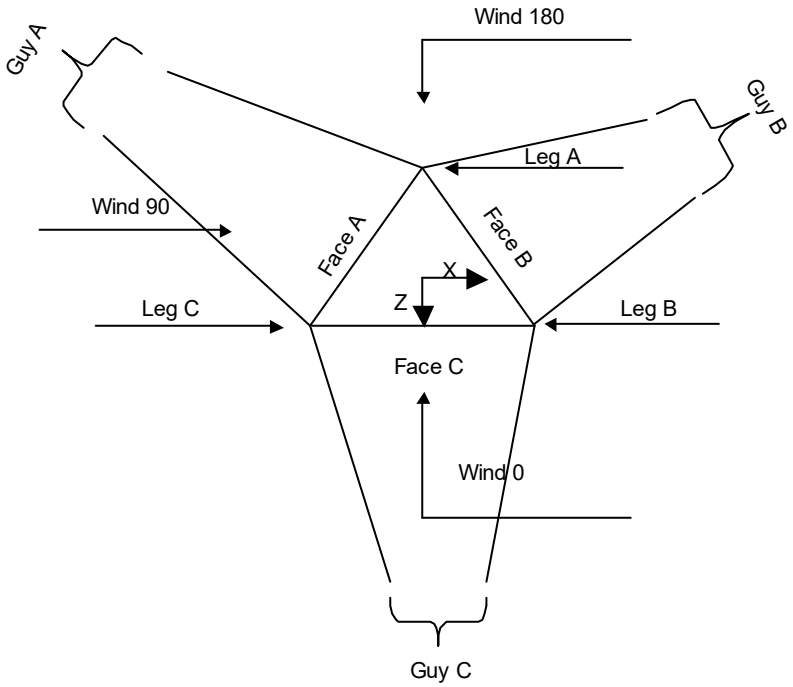
Tower is located in Webster County, Kentucky.
Tower base elevation above sea level: 424.000 ft.
Basic wind speed of 106 mph.
Risk Category II.
Exposure Category C.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.000 ft.
Nominal ice thickness of 1.500 in.
Ice thickness is considered to increase with height.
Ice density of 56.000 pcf.
A wind speed of 30 mph is used in combination with ice.
Temperature drop of 50.000 °F.
Deflections calculated using a wind speed of 60 mph.
Please see feedline plan for proper feedline placement. Deviation from plan may reduce tower capacity..
Pressures are calculated at each section.
Stress ratio used in tower member design is 1.
Safety factor used in guy design is 1.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

Consider Moments - Legs	Assume Legs Pinned	√ Calculate Redundant Bracing Forces
Consider Moments - Horizontals	√ Assume Rigid Index Plate	Ignore Redundant Members in FEA
Consider Moments - Diagonals	√ Use Clear Spans For Wind Area	√ SR Leg Bolts Resist Compression
Use Moment Magnification	√ Use Clear Spans For KL/r	All Leg Panels Have Same Allowable
√ Use Code Stress Ratios	√ Retension Guys To Initial Tension	Offset Girt At Foundation
√ Use Code Safety Factors - Guys	√ Bypass Mast Stability Checks	√ Consider Feed Line Torque
Escalate Ice	√ Use Azimuth Dish Coefficients	√ Include Angle Block Shear Check
Always Use Max Kz	√ Project Wind Area of Appurtenances	Use TIA-222-H Bracing Resist. Exemption
Kz In Exposure D Hurricane Region	Alternative Appurt. EPA Calculation	Use TIA-222-H Tension Splice Exemption
√ Include Bolts In Member Capacity	√ Autocalc Torque Arm Areas	Poles
√ Leg Bolts Are At Top Of Section	Add IBC .6D+W Combination	Include Shear-Torsion Interaction
√ Secondary Horizontal Braces Leg	√ Sort Capacity Reports By Component	Always Use Sub-Critical Flow
Use Diamond Inner Bracing (4 Sided)	Triangulate Diamond Inner Bracing	Use Top Mounted Sockets
SR Members Have Cut Ends	Treat Feed Line Bundles As Cylinder	Pole Without Linear Attachments
SR Members Are Concentric	Ignore KL/ry For 60 Deg. Angle Legs	Pole With Shroud Or No Appurtenances
Distribute Leg Loads As Uniform	Use ASCE 10 X-Brace Ly Rules	Outside and Inside Corner Radii Are Known
Use Special Wind Profile		



Corner & Starmount Guyed Tower



Face Guyed

Tower Section Geometry

Tower Section	Tower Elevation ft	Assembly Database	Description	Section Width ft	Number of Sections	Section Length ft
T1	295.000-275.000			3.000	1	20.000
T2	275.000-255.000			3.000	1	20.000
T3	255.000-235.000			3.000	1	20.000
T4	235.000-215.000			3.000	1	20.000
T5	215.000-195.000			3.000	1	20.000
T6	195.000-175.000			3.000	1	20.000
T7	175.000-155.000			3.000	1	20.000
T8	155.000-135.000			3.000	1	20.000
T9	135.000-115.000			3.000	1	20.000
T10	115.000-95.000			3.000	1	20.000
T11	95.000-75.000			3.000	1	20.000
T12	75.000-55.000			3.000	1	20.000
T13	55.000-35.000			3.000	1	20.000
T14	35.000-15.000			3.000	1	20.000
T15	15.000-5.000			3.000	1	10.000
T16	5.000-0.000			3.000	1	5.000

Tower Section Geometry *(cont'd)*

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
T1	295.000-275.000	2.404	K Brace Right	No	Yes	4.625	4.625
T2	275.000-255.000	2.404	K Brace Right	No	Yes	4.625	4.625
T3	255.000-235.000	2.404	K Brace Right	No	Yes	4.625	4.625
T4	235.000-215.000	2.404	K Brace Right	No	Yes	4.625	4.625
T5	215.000-195.000	2.404	K Brace Right	No	Yes	4.625	4.625
T6	195.000-175.000	2.404	K Brace Right	No	Yes	4.625	4.625
T7	175.000-155.000	2.404	K Brace Right	No	Yes	4.625	4.625
T8	155.000-135.000	2.404	K Brace Right	No	Yes	4.625	4.625
T9	135.000-115.000	2.404	K Brace Right	No	Yes	4.625	4.625
T10	115.000-95.000	2.404	K Brace Right	No	Yes	4.625	4.625
T11	95.000-75.000	2.404	K Brace Right	No	Yes	4.625	4.625
T12	75.000-55.000	2.404	K Brace Right	No	Yes	4.625	4.625
T13	55.000-35.000	2.404	K Brace Right	No	Yes	4.625	4.625
T14	35.000-15.000	2.404	K Brace Right	No	Yes	4.625	4.625
T15	15.000-5.000	2.307	K Brace Right	No	Yes	4.625	4.625
T16	5.000-0.000	2.115	K Brace Right	No	Yes	4.625	4.625

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 295.000-275.000	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	1	A529-50 (50 ksi)
T2 275.000-255.000	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	1	A529-50 (50 ksi)
T3 255.000-235.000	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	1	A529-50 (50 ksi)
T4 235.000-215.000	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
T5 215.000-195.000	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
T6 195.000-175.000	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
T7 175.000-155.000	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
T8 155.000-135.000	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
T9 135.000-115.000	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
T10 115.000-95.000	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
T11 95.000-75.000	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
T12 75.000-55.000	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
T13 55.000-35.000	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
T14 35.000-15.000	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T15 15.000-5.000	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
T16 5.000-0.000	Solid Round	2 1/4	A529-50 (50 ksi)	Solid Round	1	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 295.000-275.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T2 275.000-255.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T3 255.000-235.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T4 235.000-215.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T5 215.000-195.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T6 195.000-175.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T7 175.000-155.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T8 155.000-135.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T9 135.000-115.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T10 115.000-95.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T11 95.000-75.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T12 75.000-55.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T13 55.000-35.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T14 35.000-15.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T15 15.000-5.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T16 5.000-0.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)

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
T1 295.000-275.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)

Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
T2 275.000-255.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T3 255.000-235.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T4 235.000-215.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T5 215.000-195.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T6 195.000-175.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T7 175.000-155.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T8 155.000-135.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T9 135.000-115.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T10 115.000-95.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T11 95.000-75.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T12 75.000-55.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T13 55.000-35.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T14 35.000-15.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T15 15.000-5.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T16 5.000-0.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
T1 295.000-275.000	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T2 275.000-255.000	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T3 255.000-235.000	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T4 235.000-215.000	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T5 215.000-195.000	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T6 195.000-175.0	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000

Tower Elevation ft	Gusset Area (per face) ft²	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
T7 175.000-155.000	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T8 155.000-135.000	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T9 135.000-115.000	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T10 115.000-95.000	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T11 95.000-75.000	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T12 75.000-55.000	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T13 55.000-35.000	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T14 35.000-15.000	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T15 15.000-5.000	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T16 5.000-0.000	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K Factors[1] Legs	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
T1 295.000-275.000	No	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T2 275.000-255.000	No	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T3 255.000-235.000	No	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T4 235.000-215.000	No	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T5 215.000-195.000	No	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T6 195.000-175.000	No	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T7 175.000-155.000	No	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K Factors[1] Legs	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
T8	No	Yes	1	1	1	1	1	1	1	1
155.000-135.000				1	1	1	1	1	1	1
T9	No	Yes	1	1	1	1	1	1	1	1
135.000-115.000				1	1	1	1	1	1	1
T10	No	Yes	1	1	1	1	1	1	1	1
115.000-95.000				1	1	1	1	1	1	1
T11	No	Yes	1	1	1	1	1	1	1	1
95.000-75.000				1	1	1	1	1	1	1
T12	No	Yes	1	1	1	1	1	1	1	1
75.000-55.000				1	1	1	1	1	1	1
T13	No	Yes	1	1	1	1	1	1	1	1
55.000-35.000				1	1	1	1	1	1	1
T14	No	Yes	1	1	1	1	1	1	1	1
35.000-15.000				1	1	1	1	1	1	1
T15	No	Yes	1	1	1	1	1	1	1	1
15.000-5.000				1	1	1	1	1	1	1
T16	No	Yes	1	1	1	1	1	1	1	1
5.000-0.000				1	1	1	1	1	1	1

[1]*Note: 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 Net Width Deduct in	Leg U	Diagonal Net Width Deduct in	Diagonal U	Top Girt Net Width Deduct in	Top Girt U	Bottom Girt Net Width Deduct in	Bottom Girt U	Mid Girt Net Width Deduct in	Mid Girt U	Long Horizontal Net Width Deduct in	Long Horizontal U	Short Horizontal Net Width Deduct in	Short Horizontal U
T1	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
295.000-275.000														
T2	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
275.000-255.000														
T3	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
255.000-235.000														
T4	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
235.000-215.000														
T5	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
215.000-195.000														
T6	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
195.000-175.000														
T7	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
175.000-155.000														

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
T8 155.000-135.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
T9 135.000-115.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
T10 115.000-95.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
T11 95.000-75.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
T12 75.000-55.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
T13 55.000-35.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
T14 35.000-15.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
T15 15.000-5.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
T16 5.000-0.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	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 295.000-275.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T2 275.000-255.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T3 255.000-235.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	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
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T4 235.000-215.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T5 215.000-195.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T6 195.000-175.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T7 175.000-155.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T8 155.000-135.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T9 135.000-115.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	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
T10 115.000-95.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T11 95.000-75.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T12 75.000-55.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T13 55.000-35.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T14 35.000-15.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T15 15.000-5.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T16 5.000-0.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)

	0.000	0.75 (3)	0.000	0.75 (3)				0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)				0.000	0.75 (4)	0.000	0.75 (4)

Tower Section Geometry *(cont'd)*

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 295.000-275.000	Flange	0.750 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
T2 275.000-255.000	Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
T3 255.000-235.000	Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
T4 235.000-215.000	Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
T5 215.000-195.000	Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
T6 195.000-175.000	Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
T7 175.000-155.000	Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
T8 155.000-135.000	Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
T9 135.000-115.000	Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
T10 115.000-95.000	Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
T11 95.000-75.000	Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
T12 75.000-55.000	Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
T13 55.000-35.000	Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
T14 35.000-15.000	Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
T15 15.000-5.000	Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
T16 5.000-0.000	Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0

Guy Data

Guy Elevation ft	Guy Grade		Guy Size	Initial Tension K	%	Guy Modulus ksi	Guy Weight plf	L_u ft	Anchor Radius ft	Anchor Azimuth Adj. °	Anchor Elevation ft	End Fitting Efficiency %
65	EHS	A	3/8	1.540	10%	21000.000	0.273	217.985	210.000	0.000	0.000	100%
		B	EModulus	1.540	10%	21000.000	0.273	217.985	210.000	0.000	0.000	100%
		C	3/8 EModulus	1.540	10%	21000.000	0.273	217.985	210.000	0.000	0.000	100%
125	EHS	A	3/8	1.540	10%	21000.000	0.273	242.687	210.000	0.000	0.000	100%
		B	EModulus	1.540	10%	21000.000	0.273	242.687	210.000	0.000	0.000	100%
		C	3/8 EModulus	1.540	10%	21000.000	0.273	242.687	210.000	0.000	0.000	100%
185	EHS	A	3/8	1.540	10%	21000.000	0.273	278.322	210.000	0.000	0.000	100%
		B	EModulus	1.540	10%	21000.000	0.273	278.322	210.000	0.000	0.000	100%
		C	3/8 EModulus	1.540	10%	21000.000	0.273	278.322	210.000	0.000	0.000	100%
245	EHS	A	7/16	2.080	10%	21000.000	0.399	321.312	210.000	0.000	0.000	100%
		B	EModulus	2.080	10%	21000.000	0.399	321.312	210.000	0.000	0.000	100%
		C	7/16 EModulus	2.080	10%	21000.000	0.399	321.312	210.000	0.000	0.000	100%
285	EHS	A	1/2	2.690	10%	21000.000	0.517	352.713	210.000	0.000	0.000	100%
		B	EModulus	2.690	10%	21000.000	0.517	352.713	210.000	0.000	0.000	100%
		C	1/2 EModulus	2.690	10%	21000.000	0.517	352.713	210.000	0.000	0.000	100%

Guy Data*(cont'd)*

Guy Elevation ft	Mount Type	Torque-Arm Spread ft	Torque-Arm Leg Angle °	Torque-Arm Style	Torque-Arm Grade	Torque-Arm Type	Torque-Arm Size
65	Corner						
125	Corner						
185	Corner						
245	Torque Arm	6.000	0.000	Channel	A529-50 (50 ksi)	Channel	C12x20.7
285	Torque Arm	6.000	0.000	Channel	A529-50 (50 ksi)	Channel	C12x20.7

Guy Data *(cont'd)*

Guy Elevation ft	Diagonal Grade	Diagonal Type	Upper Diagonal Size	Lower Diagonal Size	Is Strap.	Pull-Off Grade	Pull-Off Type	Pull-Off Size
65.000	A572-50 (50 ksi)	Solid Round			Yes	A529-50 (50 ksi)	Flat Bar	4x5/8
125.000	A572-50 (50 ksi)	Solid Round			Yes	A529-50 (50 ksi)	Flat Bar	4x5/8
185.000	A572-50 (50 ksi)	Solid Round			Yes	A529-50 (50 ksi)	Flat Bar	4x5/8
245.000	A572-50 (50 ksi)	Solid Round			Yes	A529-50 (50 ksi)	Flat Bar	4x5/8
285.000	A572-50 (50 ksi)	Solid Round			Yes	A529-50 (50 ksi)	Flat Bar	4x5/8

Guy Data *(cont'd)*

Guy Elevation ft	Cable Weight A K	Cable Weight B K	Cable Weight C K	Cable Weight D K	Tower Intercept A ft	Tower Intercept B ft	Tower Intercept C ft	Tower Intercept D ft
65	0.060	0.060	0.060		4.192 3.5 sec/pulse	4.192 3.5 sec/pulse	4.192 3.5 sec/pulse	
125	0.066	0.066	0.066		5.169 3.9 sec/pulse	5.169 3.9 sec/pulse	5.169 3.9 sec/pulse	
185	0.076	0.076	0.076		6.762 4.5 sec/pulse	6.762 4.5 sec/pulse	6.762 4.5 sec/pulse	
245	0.128	0.128	0.128		9.685 5.4 sec/pulse	9.685 5.4 sec/pulse	9.685 5.4 sec/pulse	
285	0.182	0.182	0.182		11.648 5.9 sec/pulse	11.648 5.9 sec/pulse	11.648 5.9 sec/pulse	

Guy Data *(cont'd)*

Guy Elevation ft	Calc K Single Angles	Calc K Solid Rounds	Torque Arm K_x	Torque Arm K_y	Pull Off K_x	Pull Off K_y	Diagonal K_x	Diagonal K_y
65	No	No			0.8	0.8	1	1
125	No	No			0.8	0.8	1	1
185	No	No			0.8	0.8	1	1
245	No	No	1	1	0.8	0.8	1	1
285	No	No	1	1	0.8	0.8	1	1

Guy Data *(cont'd)*

Guy Elevation ft	Torque-Arm				Pull Off				Diagonal			
	Bolt Size in	Number	Net Width Deduct in	U	Bolt Size in	Number	Net Width Deduct in	U	Bolt Size in	Number	Net Width Deduct in	U
65	0.625 A325N	0	0.000	0.75	0.625 A325N	0	0.000	1	0.625 A325N	0	0.000	1
125	0.000 A325N	0	0.000	0.75	0.625 A325N	0	0.000	1	0.625 A325N	0	0.000	1
185	0.000 A325N	0	0.000	0.75	0.625 A325N	0	0.000	1	0.625 A325N	0	0.000	1
245	0.000 A325N	0	0.000	0.75	0.625 A325N	0	0.000	1	0.625 A325N	0	0.000	1
285	0.000 A325N	0	0.000	0.75	0.625 A325N	0	0.000	1	0.625 A325N	0	0.000	1

Guy Pressures

Guy Elevation ft	Guy Location	z ft	q_z ksf	q_z Ice ksf	Ice Thickness in
65	A	32.500	0.024	0.002	1.498
	B	32.500	0.024	0.002	1.498
	C	32.500	0.024	0.002	1.498
125	A	62.500	0.028	0.002	1.599
	B	62.500	0.028	0.002	1.599
	C	62.500	0.028	0.002	1.599
185	A	92.500	0.030	0.002	1.663
	B	92.500	0.030	0.002	1.663
	C	92.500	0.030	0.002	1.663
245	A	122.500	0.032	0.003	1.710
	B	122.500	0.032	0.003	1.710
	C	122.500	0.032	0.003	1.710
285	A	142.500	0.033	0.003	1.736
	B	142.500	0.033	0.003	1.736
	C	142.500	0.033	0.003	1.736

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight klf
1-5/8" Hybrid (Carrier 1) **	C	No	No	Ar (CaAa)	290.000 - 10.000	0.000	0	18	9	0.750	1.625		0.001
1-5/8" Hybrid (Carrier 2) **	B	No	No	Ar (CaAa)	275.000 - 10.000	0.000	0	12	6	0.750	1.625		0.001
1-5/8" Hybrid (Carrier 3) **	A	No	No	Ar (CaAa)	260.000 - 10.000	0.000	0	12	6	0.750	1.625		0.001
Safety Line 3/8	A	No	No	Ar (CaAa)	295.000 - 10.000	0.000	0.45	1	1	0.375	0.375		0.000
Strobe Cable **	A	No	No	Ar (CaAa)	295.000 - 10.000	0.000	-0.45	1	1	1.250	1.250		0.001

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C_AA_A ft^2/ft	Weight klf
**								

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
T1	295.000-275.000	A	0.000	0.000	3.250	0.000	0.018
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	43.875	0.000	0.281
T2	275.000-255.000	A	0.000	0.000	13.000	0.000	0.081
		B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
T3	255.000-235.000	A	0.000	0.000	42.250	0.000	0.268
		B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
T4	235.000-215.000	A	0.000	0.000	42.250	0.000	0.268
		B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
T5	215.000-195.000	A	0.000	0.000	42.250	0.000	0.268
		B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
T6	195.000-175.000	A	0.000	0.000	42.250	0.000	0.268
		B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
T7	175.000-155.000	A	0.000	0.000	42.250	0.000	0.268
		B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
T8	155.000-135.000	A	0.000	0.000	42.250	0.000	0.268
		B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
T9	135.000-115.000	A	0.000	0.000	42.250	0.000	0.268
		B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
T10	115.000-95.000	A	0.000	0.000	42.250	0.000	0.268
		B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
T11	95.000-75.000	A	0.000	0.000	42.250	0.000	0.268
		B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
T12	75.000-55.000	A	0.000	0.000	42.250	0.000	0.268
		B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
T13	55.000-35.000	A	0.000	0.000	42.250	0.000	0.268
		B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
T14	35.000-15.000	A	0.000	0.000	42.250	0.000	0.268

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
T15	15.000-5.000	A	0.000	0.000	10.562	0.000	0.067
		B	0.000	0.000	9.750	0.000	0.062
		C	0.000	0.000	14.625	0.000	0.094
T16	5.000-0.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.000

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
T1	295.000-275.000	A	1.861	0.000	0.000	18.137	0.000	0.262
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	47.891	0.000	1.124
T2	275.000-255.000	A	1.847	0.000	0.000	29.803	0.000	0.518
		B		0.000	0.000	47.095	0.000	1.038
		C		0.000	0.000	63.770	0.000	1.492
T3	255.000-235.000	A	1.833	0.000	0.000	64.914	0.000	1.288
		B		0.000	0.000	47.000	0.000	1.033
		C		0.000	0.000	63.680	0.000	1.486
T4	235.000-215.000	A	1.817	0.000	0.000	64.687	0.000	1.279
		B		0.000	0.000	46.897	0.000	1.027
		C		0.000	0.000	63.582	0.000	1.478
T5	215.000-195.000	A	1.801	0.000	0.000	64.441	0.000	1.270
		B		0.000	0.000	46.786	0.000	1.021
		C		0.000	0.000	63.477	0.000	1.471
T6	195.000-175.000	A	1.782	0.000	0.000	64.172	0.000	1.259
		B		0.000	0.000	46.665	0.000	1.015
		C		0.000	0.000	63.361	0.000	1.462
T7	175.000-155.000	A	1.762	0.000	0.000	63.876	0.000	1.248
		B		0.000	0.000	46.531	0.000	1.008
		C		0.000	0.000	63.234	0.000	1.453
T8	155.000-135.000	A	1.739	0.000	0.000	63.546	0.000	1.235
		B		0.000	0.000	46.382	0.000	1.000
		C		0.000	0.000	63.093	0.000	1.443
T9	135.000-115.000	A	1.714	0.000	0.000	63.172	0.000	1.221
		B		0.000	0.000	46.213	0.000	0.991
		C		0.000	0.000	62.933	0.000	1.431
T10	115.000-95.000	A	1.684	0.000	0.000	62.740	0.000	1.205
		B		0.000	0.000	46.018	0.000	0.981
		C		0.000	0.000	62.747	0.000	1.417
T11	95.000-75.000	A	1.649	0.000	0.000	62.227	0.000	1.186
		B		0.000	0.000	45.786	0.000	0.969
		C		0.000	0.000	62.528	0.000	1.401
T12	75.000-55.000	A	1.605	0.000	0.000	61.591	0.000	1.162
		B		0.000	0.000	45.499	0.000	0.954
		C		0.000	0.000	62.255	0.000	1.382
T13	55.000-35.000	A	1.547	0.000	0.000	60.747	0.000	1.131
		B		0.000	0.000	45.119	0.000	0.935
		C		0.000	0.000	61.894	0.000	1.356
T14	35.000-15.000	A	1.459	0.000	0.000	59.461	0.000	1.085
		B		0.000	0.000	44.539	0.000	0.905
		C		0.000	0.000	61.345	0.000	1.316
T15	15.000-5.000	A	1.331	0.000	0.000	14.401	0.000	0.255
		B		0.000	0.000	10.926	0.000	0.216

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
T16	5.000-0.000	C	1.159	0.000	0.000	15.139	0.000	0.315
		A		0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.000

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
T1	295.000-275.000	-0.628	2.516	-0.915	0.625
T2	275.000-255.000	0.830	-1.149	0.085	-0.599
T3	255.000-235.000	-0.386	-2.188	-0.694	-1.201
T4	235.000-215.000	-0.404	-2.294	-0.754	-1.316
T5	215.000-195.000	-0.404	-2.294	-0.755	-1.326
T6	195.000-175.000	-0.391	-2.217	-0.714	-1.257
T7	175.000-155.000	-0.404	-2.294	-0.758	-1.347
T8	155.000-135.000	-0.404	-2.294	-0.760	-1.360
T9	135.000-115.000	-0.391	-2.217	-0.720	-1.297
T10	115.000-95.000	-0.404	-2.294	-0.763	-1.390
T11	95.000-75.000	-0.404	-2.294	-0.765	-1.410
T12	75.000-55.000	-0.391	-2.217	-0.728	-1.360
T13	55.000-35.000	-0.404	-2.294	-0.767	-1.466
T14	35.000-15.000	-0.404	-2.294	-0.768	-1.514
T15	15.000-5.000	-0.330	-1.809	-0.542	-1.090
T16	5.000-0.000	0.000	0.000	0.000	0.000

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T1	1	1-5/8" Hybrid	275.00 - 290.00	0.6000	0.4045
T1	7	Safety Line 3/8	275.00 - 295.00	0.6000	0.4045
T1	8	Strobe Cable	275.00 - 295.00	0.6000	0.4045
T2	1	1-5/8" Hybrid	255.00 - 275.00	0.6000	0.4338
T2	3	1-5/8" Hybrid	255.00 - 275.00	0.6000	0.4338
T2	5	1-5/8" Hybrid	255.00 - 260.00	0.6000	0.4338
T2	7	Safety Line 3/8	255.00 - 275.00	0.6000	0.4338
T2	8	Strobe Cable	255.00 - 275.00	0.6000	0.4338
T3	1	1-5/8" Hybrid	235.00 - 255.00	0.6000	0.4103
T3	3	1-5/8" Hybrid	235.00 - 255.00	0.6000	0.4103

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T3	5	1-5/8" Hybrid	235.00 - 255.00	0.6000	0.4103
T3	7	Safety Line 3/8	235.00 - 255.00	0.6000	0.4103
T3	8	Strobe Cable	235.00 - 255.00	0.6000	0.4103
T4	1	1-5/8" Hybrid	215.00 - 235.00	0.6000	0.4487
T4	3	1-5/8" Hybrid	215.00 - 235.00	0.6000	0.4487
T4	5	1-5/8" Hybrid	215.00 - 235.00	0.6000	0.4487
T4	7	Safety Line 3/8	215.00 - 235.00	0.6000	0.4487
T4	8	Strobe Cable	215.00 - 235.00	0.6000	0.4487
T5	1	1-5/8" Hybrid	195.00 - 215.00	0.6000	0.4521
T5	3	1-5/8" Hybrid	195.00 - 215.00	0.6000	0.4521
T5	5	1-5/8" Hybrid	195.00 - 215.00	0.6000	0.4521
T5	7	Safety Line 3/8	195.00 - 215.00	0.6000	0.4521
T5	8	Strobe Cable	195.00 - 215.00	0.6000	0.4521
T6	1	1-5/8" Hybrid	175.00 - 195.00	0.6000	0.4297
T6	3	1-5/8" Hybrid	175.00 - 195.00	0.6000	0.4297
T6	5	1-5/8" Hybrid	175.00 - 195.00	0.6000	0.4297
T6	7	Safety Line 3/8	175.00 - 195.00	0.6000	0.4297
T6	8	Strobe Cable	175.00 - 195.00	0.6000	0.4297
T7	1	1-5/8" Hybrid	155.00 - 175.00	0.6000	0.4600
T7	3	1-5/8" Hybrid	155.00 - 175.00	0.6000	0.4600
T7	5	1-5/8" Hybrid	155.00 - 175.00	0.6000	0.4600
T7	7	Safety Line 3/8	155.00 - 175.00	0.6000	0.4600
T7	8	Strobe Cable	155.00 - 175.00	0.6000	0.4600
T8	1	1-5/8" Hybrid	135.00 - 155.00	0.6000	0.4646
T8	3	1-5/8" Hybrid	135.00 - 155.00	0.6000	0.4646
T8	5	1-5/8" Hybrid	135.00 - 155.00	0.6000	0.4646
T8	7	Safety Line 3/8	135.00 - 155.00	0.6000	0.4646
T8	8	Strobe Cable	135.00 - 155.00	0.6000	0.4646
T9	1	1-5/8" Hybrid	115.00 - 135.00	0.6000	0.4441
T9	3	1-5/8" Hybrid	115.00 - 135.00	0.6000	0.4441
T9	5	1-5/8" Hybrid	115.00 - 135.00	0.6000	0.4441

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T9	7	Safety Line 3/8	115.00 - 135.00	0.6000	0.4441
T9	8	Strobe Cable	115.00 - 135.00	0.6000	0.4441
T10	1	1-5/8" Hybrid	95.00 - 115.00	0.6000	0.4759
T10	3	1-5/8" Hybrid	95.00 - 115.00	0.6000	0.4759
T10	5	1-5/8" Hybrid	95.00 - 115.00	0.6000	0.4759
T10	7	Safety Line 3/8	95.00 - 115.00	0.6000	0.4759
T10	8	Strobe Cable	95.00 - 115.00	0.6000	0.4759
T11	1	1-5/8" Hybrid	75.00 - 95.00	0.6000	0.4831
T11	3	1-5/8" Hybrid	75.00 - 95.00	0.6000	0.4831
T11	5	1-5/8" Hybrid	75.00 - 95.00	0.6000	0.4831
T11	7	Safety Line 3/8	75.00 - 95.00	0.6000	0.4831
T11	8	Strobe Cable	75.00 - 95.00	0.6000	0.4831
T12	1	1-5/8" Hybrid	55.00 - 75.00	0.6000	0.4670
T12	3	1-5/8" Hybrid	55.00 - 75.00	0.6000	0.4670
T12	5	1-5/8" Hybrid	55.00 - 75.00	0.6000	0.4670
T12	7	Safety Line 3/8	55.00 - 75.00	0.6000	0.4670
T12	8	Strobe Cable	55.00 - 75.00	0.6000	0.4670
T13	1	1-5/8" Hybrid	35.00 - 55.00	0.6000	0.5042
T13	3	1-5/8" Hybrid	35.00 - 55.00	0.6000	0.5042
T13	5	1-5/8" Hybrid	35.00 - 55.00	0.6000	0.5042
T13	7	Safety Line 3/8	35.00 - 55.00	0.6000	0.5042
T13	8	Strobe Cable	35.00 - 55.00	0.6000	0.5042
T14	1	1-5/8" Hybrid	15.00 - 35.00	0.6000	0.5227
T14	3	1-5/8" Hybrid	15.00 - 35.00	0.6000	0.5227
T14	5	1-5/8" Hybrid	15.00 - 35.00	0.6000	0.5227
T14	7	Safety Line 3/8	15.00 - 35.00	0.6000	0.5227
T14	8	Strobe Cable	15.00 - 35.00	0.6000	0.5227
T15	1	1-5/8" Hybrid	10.00 - 15.00	0.6000	0.5395
T15	3	1-5/8" Hybrid	10.00 - 15.00	0.6000	0.5395
T15	5	1-5/8" Hybrid	10.00 - 15.00	0.6000	0.5395
T15	7	Safety Line 3/8	10.00 - 15.00	0.6000	0.5395
T15	8	Strobe Cable	10.00 - 15.00	0.6000	0.5395

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
5' Lightning Rod	C	From Leg	0.000 0.000 3.000	0.000	295.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.000 2.017 3.050 5.148	1.000 2.017 3.050 5.148	0.040 0.049 0.065 0.116
Top Beacon	B	From Leg	0.000 0.000 1.000	0.000	295.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.700 3.100 3.500 4.300	2.700 3.100 3.500 4.300	0.050 0.070 0.090 0.130
**									
Sector1(CaAa=14000 Sq.in)No Ice	A	From Leg	4.000 0.000	0.000	290.000	No Ice 1/2" Ice	97.222 121.528	65.139 81.423	0.700 1.400

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
(Carrier 1)			0.000			1" Ice	145.834	97.707	2.100
						2" Ice	194.446	130.275	3.500
Sector2(CaAa=14000	B	From Leg	4.000	0.000	290.000	No Ice	97.222	65.139	0.700
Sq.in)No Ice			0.000			1/2" Ice	121.528	81.423	1.400
(Carrier 1)			0.000			1" Ice	145.834	97.707	2.100
						2" Ice	194.446	130.275	3.500
Sector3(CaAa=14000	C	From Leg	4.000	0.000	290.000	No Ice	97.222	65.139	0.700
Sq.in)No Ice			0.000			1/2" Ice	121.528	81.423	1.400
(Carrier 1)			0.000			1" Ice	145.834	97.707	2.100
						2" Ice	194.446	130.275	3.500
**									
Sector1(CaAa=10000	A	From Leg	4.000	0.000	275.000	No Ice	69.444	46.527	0.700
Sq.in)No Ice			0.000			1/2" Ice	86.805	58.159	1.400
(Carrier 2)			0.000			1" Ice	104.166	69.791	2.100
						2" Ice	138.888	93.055	3.500
Sector2(CaAa=10000	B	From Leg	4.000	0.000	275.000	No Ice	69.444	46.527	0.700
Sq.in)No Ice			0.000			1/2" Ice	86.805	58.159	1.400
(Carrier 2)			0.000			1" Ice	104.166	69.791	2.100
						2" Ice	138.888	93.055	3.500
Sector3(CaAa=10000	C	From Leg	4.000	0.000	275.000	No Ice	69.444	46.527	0.700
Sq.in)No Ice			0.000			1/2" Ice	86.805	58.159	1.400
(Carrier 2)			0.000			1" Ice	104.166	69.791	2.100
						2" Ice	138.888	93.055	3.500
**									
Sector1(CaAa=10000	A	From Leg	4.000	0.000	260.000	No Ice	69.444	46.527	0.700
Sq.in)No Ice			0.000			1/2" Ice	86.805	58.159	1.400
(Carrier 3)			0.000			1" Ice	104.166	69.791	2.100
						2" Ice	138.888	93.055	3.500
Sector2(CaAa=10000	B	From Leg	4.000	0.000	260.000	No Ice	69.444	46.527	0.700
Sq.in)No Ice			0.000			1/2" Ice	86.805	58.159	1.400
(Carrier 3)			0.000			1" Ice	104.166	69.791	2.100
						2" Ice	138.888	93.055	3.500
Sector3(CaAa=10000	C	From Leg	4.000	0.000	260.000	No Ice	69.444	46.527	0.700
Sq.in)No Ice			0.000			1/2" Ice	86.805	58.159	1.400
(Carrier 3)			0.000			1" Ice	104.166	69.791	2.100
						2" Ice	138.888	93.055	3.500
**									

Tower Pressures - No Ice

$G_H = 0.850$

Section Elevation ft	z ft	K_Z	q_z ksf	A_G ft^2	Face	A_F ft^2	A_R ft^2	A_{leg} ft^2	Leg % 	C_AA_A In Face ft^2	C_AA_A Out Face ft^2
T1	285.000	1.578	0.038	62.917	A	0.951	9.877	5.833	53.87	3.250	0.000
295.000-275.0					B	0.951	9.877		53.87	0.000	0.000
00					C	0.951	9.877		53.87	43.875	0.000
T2	265.000	1.554	0.037	62.917	A	0.000	9.877	5.833	59.06	13.000	0.000

Section Elevation ft	z ft	K_Z	q_z ksf	A_G ft²	Face	A_F ft²	A_R ft²	A_{leg} ft²	Leg %	C_AA_A In Face ft²	C_AA_A Out Face ft²
275.000-255.0					B	0.000	9.877		59.06	39.000	0.000
00					C	0.000	9.877		59.06	58.500	0.000
T3	245.000	1.528	0.037	62.917	A	0.951	9.877	5.833	53.87	42.250	0.000
255.000-235.0					B	0.951	9.877		53.87	39.000	0.000
00					C	0.951	9.877		53.87	58.500	0.000
T4	225.000	1.501	0.036	62.917	A	0.000	9.267	5.833	62.94	42.250	0.000
235.000-215.0					B	0.000	9.267		62.94	39.000	0.000
00					C	0.000	9.267		62.94	58.500	0.000
T5	205.000	1.472	0.035	62.917	A	0.000	9.267	5.833	62.94	42.250	0.000
215.000-195.0					B	0.000	9.267		62.94	39.000	0.000
00					C	0.000	9.267		62.94	58.500	0.000
T6	185.000	1.441	0.035	62.917	A	0.951	9.267	5.833	57.08	42.250	0.000
195.000-175.0					B	0.951	9.267		57.08	39.000	0.000
00					C	0.951	9.267		57.08	58.500	0.000
T7	165.000	1.406	0.034	62.917	A	0.000	9.267	5.833	62.94	42.250	0.000
175.000-155.0					B	0.000	9.267		62.94	39.000	0.000
00					C	0.000	9.267		62.94	58.500	0.000
T8	145.000	1.369	0.033	62.917	A	0.000	9.267	5.833	62.94	42.250	0.000
155.000-135.0					B	0.000	9.267		62.94	39.000	0.000
00					C	0.000	9.267		62.94	58.500	0.000
T9	125.000	1.326	0.032	62.917	A	0.951	9.267	5.833	57.08	42.250	0.000
135.000-115.0					B	0.951	9.267		57.08	39.000	0.000
00					C	0.951	9.267		57.08	58.500	0.000
T10	105.000	1.279	0.031	62.917	A	0.000	9.267	5.833	62.94	42.250	0.000
115.000-95.00					B	0.000	9.267		62.94	39.000	0.000
0					C	0.000	9.267		62.94	58.500	0.000
T11	85.000	1.223	0.029	62.917	A	0.000	9.267	5.833	62.94	42.250	0.000
95.000-75.000					B	0.000	9.267		62.94	39.000	0.000
					C	0.000	9.267		62.94	58.500	0.000
T12	65.000	1.156	0.028	62.917	A	0.951	9.267	5.833	57.08	42.250	0.000
75.000-55.000					B	0.951	9.267		57.08	39.000	0.000
					C	0.951	9.267		57.08	58.500	0.000
T13	45.000	1.070	0.026	62.917	A	0.000	9.267	5.833	62.94	42.250	0.000
55.000-35.000					B	0.000	9.267		62.94	39.000	0.000
					C	0.000	9.267		62.94	58.500	0.000
T14	25.000	0.945	0.023	62.917	A	0.000	9.267	5.833	62.94	42.250	0.000
35.000-15.000					B	0.000	9.267		62.94	39.000	0.000
					C	0.000	9.267		62.94	58.500	0.000
T15	10.000	0.850	0.020	31.458	A	0.000	4.709	2.917	61.94	10.562	0.000
15.000-5.000					B	0.000	4.709		61.94	9.750	0.000
					C	0.000	4.709		61.94	14.625	0.000
T16	2.500	0.850	0.020	8.479	A	0.000	2.615	1.984	75.88	0.000	0.000
5.000-0.000					B	0.000	2.615		75.88	0.000	0.000
					C	0.000	2.615		75.88	0.000	0.000

Tower Pressure - With Ice

$G_H = 0.850$

Section Elevation ft	z ft	K_Z	q_z ksf	t_Z in	A_G ft²	Face	A_F ft²	A_R ft²	A_{leg} ft²	Leg %	C_AA_A In Face ft²	C_AA_A Out Face ft²
T1	285.000	1.578	0.003	1.861	69.120	A	0.951	40.210	18.239	44.31	18.137	0.000
295.000-275.000						B	0.951	40.210		44.31	0.000	0.000
						C	0.951	40.210		44.31	47.891	0.000

Section Elevation ft	z ft	K_Z	q_z ksf	t_Z in	A_G ft²	Face	A_F ft²	A_R ft²	A_{leg} ft²	Leg %	C_AA_A In Face ft²	C_AA_A Out Face ft²
T2	265.000	1.554	0.003	1.847	69.075	A	0.000	39.111	18.149	46.40	29.803	0.000
275.000-255.000						B	0.000	39.111		46.40	47.095	0.000
						C	0.000	39.111		46.40	63.770	0.000
T3	245.000	1.528	0.003	1.833	69.027	A	0.951	39.754	18.053	44.35	64.914	0.000
255.000-235.000						B	0.951	39.754		44.35	47.000	0.000
						C	0.951	39.754		44.35	63.680	0.000
T4	225.000	1.501	0.003	1.817	68.975	A	0.000	38.027	17.950	47.20	64.687	0.000
235.000-215.000						B	0.000	38.027		47.20	46.897	0.000
						C	0.000	38.027		47.20	63.582	0.000
T5	205.000	1.472	0.003	1.801	68.919	A	0.000	37.761	17.837	47.24	64.441	0.000
215.000-195.000						B	0.000	37.761		47.24	46.786	0.000
						C	0.000	37.761		47.24	63.477	0.000
T6	185.000	1.441	0.003	1.782	68.857	A	0.951	38.317	17.715	45.11	64.172	0.000
195.000-175.000						B	0.951	38.317		45.11	46.665	0.000
						C	0.951	38.317		45.11	63.361	0.000
T7	165.000	1.406	0.003	1.762	68.790	A	0.000	37.149	17.580	47.32	63.876	0.000
175.000-155.000						B	0.000	37.149		47.32	46.531	0.000
						C	0.000	37.149		47.32	63.234	0.000
T8	145.000	1.369	0.003	1.739	68.714	A	0.000	36.791	17.429	47.37	63.546	0.000
155.000-135.000						B	0.000	36.791		47.37	46.382	0.000
						C	0.000	36.791		47.37	63.093	0.000
T9	125.000	1.326	0.003	1.714	68.629	A	0.951	37.200	17.258	45.23	63.172	0.000
135.000-115.000						B	0.951	37.200		45.23	46.213	0.000
						C	0.951	37.200		45.23	62.933	0.000
T10	105.000	1.279	0.002	1.684	68.530	A	0.000	35.917	17.060	47.50	62.740	0.000
115.000-95.000						B	0.000	35.917		47.50	46.018	0.000
						C	0.000	35.917		47.50	62.747	0.000
T11	85.000	1.223	0.002	1.649	68.413	A	0.000	35.359	16.826	47.58	62.227	0.000
95.000-75.000						B	0.000	35.359		47.58	45.786	0.000
						C	0.000	35.359		47.58	62.528	0.000
T12	65.000	1.156	0.002	1.605	68.267	A	0.951	35.432	16.535	45.45	61.591	0.000
75.000-55.000						B	0.951	35.432		45.45	45.499	0.000
						C	0.951	35.432		45.45	62.255	0.000
T13	45.000	1.070	0.002	1.547	68.074	A	0.000	33.752	16.148	47.84	60.747	0.000
55.000-35.000						B	0.000	33.752		47.84	45.119	0.000
						C	0.000	33.752		47.84	61.894	0.000
T14	25.000	0.945	0.002	1.459	67.780	A	0.000	32.354	15.560	48.09	59.461	0.000
35.000-15.000						B	0.000	32.354		48.09	44.539	0.000
						C	0.000	32.354		48.09	61.345	0.000
T15	10.000	0.850	0.002	1.331	33.677	A	0.000	15.508	7.354	47.42	14.401	0.000
15.000-5.000						B	0.000	15.508		47.42	10.926	0.000
						C	0.000	15.508		47.42	15.139	0.000
T16 5.000-0.000	2.500	0.850	0.002	1.159	9.487	A	0.000	6.311	4.028	63.83	0.000	0.000
						B	0.000	6.311		63.83	0.000	0.000
						C	0.000	6.311		63.83	0.000	0.000

Tower Pressure - Service

$G_H = 0.850$

Section Elevation ft	z ft	K_Z	q_z ksf	A_G ft²	Face	A_F ft²	A_R ft²	A_{leg} ft²	Leg %	C_AA_A In Face ft²	C_AA_A Out Face ft²
T1	285.000	1.578	0.012	62.917	A	0.951	9.877	5.833	53.87	3.250	0.000

Section Elevation ft	z ft	K_Z	q_z ksf	A_G ft²	Face	A_F ft²	A_R ft²	A_{leg} ft²	Leg %	C_AA_A In Face ft²	C_AA_A Out Face ft²
295.000-275.0					B	0.951	9.877		53.87	0.000	0.000
00					C	0.951	9.877		53.87	43.875	0.000
T2	265.000	1.554	0.012	62.917	A	0.000	9.877	5.833	59.06	13.000	0.000
275.000-255.0					B	0.000	9.877		59.06	39.000	0.000
00					C	0.000	9.877		59.06	58.500	0.000
T3	245.000	1.528	0.012	62.917	A	0.951	9.877	5.833	53.87	42.250	0.000
255.000-235.0					B	0.951	9.877		53.87	39.000	0.000
00					C	0.951	9.877		53.87	58.500	0.000
T4	225.000	1.501	0.012	62.917	A	0.000	9.267	5.833	62.94	42.250	0.000
235.000-215.0					B	0.000	9.267		62.94	39.000	0.000
00					C	0.000	9.267		62.94	58.500	0.000
T5	205.000	1.472	0.011	62.917	A	0.000	9.267	5.833	62.94	42.250	0.000
215.000-195.0					B	0.000	9.267		62.94	39.000	0.000
00					C	0.000	9.267		62.94	58.500	0.000
T6	185.000	1.441	0.011	62.917	A	0.951	9.267	5.833	57.08	42.250	0.000
195.000-175.0					B	0.951	9.267		57.08	39.000	0.000
00					C	0.951	9.267		57.08	58.500	0.000
T7	165.000	1.406	0.011	62.917	A	0.000	9.267	5.833	62.94	42.250	0.000
175.000-155.0					B	0.000	9.267		62.94	39.000	0.000
00					C	0.000	9.267		62.94	58.500	0.000
T8	145.000	1.369	0.011	62.917	A	0.000	9.267	5.833	62.94	42.250	0.000
155.000-135.0					B	0.000	9.267		62.94	39.000	0.000
00					C	0.000	9.267		62.94	58.500	0.000
T9	125.000	1.326	0.010	62.917	A	0.951	9.267	5.833	57.08	42.250	0.000
135.000-115.0					B	0.951	9.267		57.08	39.000	0.000
00					C	0.951	9.267		57.08	58.500	0.000
T10	105.000	1.279	0.010	62.917	A	0.000	9.267	5.833	62.94	42.250	0.000
115.000-95.00					B	0.000	9.267		62.94	39.000	0.000
0					C	0.000	9.267		62.94	58.500	0.000
T11	85.000	1.223	0.009	62.917	A	0.000	9.267	5.833	62.94	42.250	0.000
95.000-75.000					B	0.000	9.267		62.94	39.000	0.000
					C	0.000	9.267		62.94	58.500	0.000
T12	65.000	1.156	0.009	62.917	A	0.951	9.267	5.833	57.08	42.250	0.000
75.000-55.000					B	0.951	9.267		57.08	39.000	0.000
					C	0.951	9.267		57.08	58.500	0.000
T13	45.000	1.070	0.008	62.917	A	0.000	9.267	5.833	62.94	42.250	0.000
55.000-35.000					B	0.000	9.267		62.94	39.000	0.000
					C	0.000	9.267		62.94	58.500	0.000
T14	25.000	0.945	0.007	62.917	A	0.000	9.267	5.833	62.94	42.250	0.000
35.000-15.000					B	0.000	9.267		62.94	39.000	0.000
					C	0.000	9.267		62.94	58.500	0.000
T15	10.000	0.850	0.007	31.458	A	0.000	4.709	2.917	61.94	10.562	0.000
15.000-5.000					B	0.000	4.709		61.94	9.750	0.000
					C	0.000	4.709		61.94	14.625	0.000
T16	2.500	0.850	0.007	8.479	A	0.000	2.615	1.984	75.88	0.000	0.000
5.000-0.000					B	0.000	2.615		75.88	0.000	0.000
					C	0.000	2.615		75.88	0.000	0.000

Tower Forces - No Ice - Wind Normal To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z ksf	D_F	D_R	A_E ft²	F K	w klf	Ctrl. Face
T1	0.299	0.936	A	0.172	2.692	0.038	1	1	6.583	1.384	0.069	C
295.000-275.0		TA 0.373	B	0.172	2.692		1	1	6.583			
00			C	0.172	2.692		1	1	6.583			

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z ksf	D_F	D_R	A_E ft²	F K	w klf	Ctrl. Face
T2	0.705	0.859	A	0.157	2.746	0.037	1	1	5.613	1.916	0.096	C
275.000-255.0			B	0.157	2.746		1	1	5.613			
00			C	0.157	2.746		1	1	5.613			
T3	0.892	0.936	A	0.172	2.692	0.037	1	1	6.583	2.181	0.109	C
255.000-235.0		TA 0.373	B	0.172	2.692		1	1	6.583			
00			C	0.172	2.692		1	1	6.583			
T4	0.892	0.752	A	0.147	2.781	0.036	1	1	5.257	2.047	0.102	C
235.000-215.0			B	0.147	2.781		1	1	5.257			
00			C	0.147	2.781		1	1	5.257			
T5	0.892	0.752	A	0.147	2.781	0.035	1	1	5.257	2.008	0.100	C
215.000-195.0			B	0.147	2.781		1	1	5.257			
00			C	0.147	2.781		1	1	5.257			
T6	0.892	0.828	A	0.162	2.726	0.035	1	1	6.224	2.034	0.102	C
195.000-175.0			B	0.162	2.726		1	1	6.224			
00			C	0.162	2.726		1	1	6.224			
T7	0.892	0.752	A	0.147	2.781	0.034	1	1	5.257	1.918	0.096	C
175.000-155.0			B	0.147	2.781		1	1	5.257			
00			C	0.147	2.781		1	1	5.257			
T8	0.892	0.752	A	0.147	2.781	0.033	1	1	5.257	1.866	0.093	C
155.000-135.0			B	0.147	2.781		1	1	5.257			
00			C	0.147	2.781		1	1	5.257			
T9	0.892	0.828	A	0.162	2.726	0.032	1	1	6.224	1.873	0.094	C
135.000-115.0			B	0.162	2.726		1	1	6.224			
00			C	0.162	2.726		1	1	6.224			
T10	0.892	0.752	A	0.147	2.781	0.031	1	1	5.257	1.744	0.087	C
115.000-95.00			B	0.147	2.781		1	1	5.257			
0			C	0.147	2.781		1	1	5.257			
T11	0.892	0.752	A	0.147	2.781	0.029	1	1	5.257	1.668	0.083	C
95.000-75.000			B	0.147	2.781		1	1	5.257			
			C	0.147	2.781		1	1	5.257			
T12	0.892	0.828	A	0.162	2.726	0.028	1	1	6.224	1.632	0.082	C
75.000-55.000			B	0.162	2.726		1	1	6.224			
			C	0.162	2.726		1	1	6.224			
T13	0.892	0.752	A	0.147	2.781	0.026	1	1	5.257	1.459	0.073	C
55.000-35.000			B	0.147	2.781		1	1	5.257			
			C	0.147	2.781		1	1	5.257			
T14	0.892	0.752	A	0.147	2.781	0.023	1	1	5.257	1.289	0.064	C
35.000-15.000			B	0.147	2.781		1	1	5.257			
			C	0.147	2.781		1	1	5.257			
T15	0.223	0.381	A	0.15	2.773	0.020	1	1	2.672	0.355	0.036	C
15.000-5.000			B	0.15	2.773		1	1	2.672			
			C	0.15	2.773		1	1	2.672			
T16	0.000	0.278	A	0.308	2.274	0.020	1	1	1.573	0.062	0.012	C
5.000-0.000			B	0.308	2.274		1	1	1.573			
			C	0.308	2.274		1	1	1.573			
Sum Weight:	11.931	12.633								25.436		

Tower Forces - No Ice - Wind 60 To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z ksf	D_F	D_R	A_E ft²	F K	w klf	Ctrl. Face
T1	0.299	0.936	A	0.172	2.692	0.038	0.8	1	6.393	1.368	0.068	A

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z ksf	D_F	D_R	A_E ft^2	F K	w klf	Ctrl. Face
295.000-275.0		TA 0.373	B	0.172	2.692		0.8	1	6.393			
00			C	0.172	2.692		0.8	1	6.393			
T2	0.705	0.859	A	0.157	2.746	0.037	0.8	1	5.613	1.916	0.096	A
275.000-255.0			B	0.157	2.746		0.8	1	5.613			
00			C	0.157	2.746		0.8	1	5.613			
T3	0.892	0.936	A	0.172	2.692	0.037	0.8	1	6.393	2.165	0.108	A
255.000-235.0		TA 0.373	B	0.172	2.692		0.8	1	6.393			
00			C	0.172	2.692		0.8	1	6.393			
T4	0.892	0.752	A	0.147	2.781	0.036	0.8	1	5.257	2.047	0.102	A
235.000-215.0			B	0.147	2.781		0.8	1	5.257			
00			C	0.147	2.781		0.8	1	5.257			
T5	0.892	0.752	A	0.147	2.781	0.035	0.8	1	5.257	2.008	0.100	A
215.000-195.0			B	0.147	2.781		0.8	1	5.257			
00			C	0.147	2.781		0.8	1	5.257			
T6	0.892	0.828	A	0.162	2.726	0.035	0.8	1	6.034	2.018	0.101	A
195.000-175.0			B	0.162	2.726		0.8	1	6.034			
00			C	0.162	2.726		0.8	1	6.034			
T7	0.892	0.752	A	0.147	2.781	0.034	0.8	1	5.257	1.918	0.096	A
175.000-155.0			B	0.147	2.781		0.8	1	5.257			
00			C	0.147	2.781		0.8	1	5.257			
T8	0.892	0.752	A	0.147	2.781	0.033	0.8	1	5.257	1.866	0.093	A
155.000-135.0			B	0.147	2.781		0.8	1	5.257			
00			C	0.147	2.781		0.8	1	5.257			
T9	0.892	0.828	A	0.162	2.726	0.032	0.8	1	6.034	1.859	0.093	A
135.000-115.0			B	0.162	2.726		0.8	1	6.034			
00			C	0.162	2.726		0.8	1	6.034			
T10	0.892	0.752	A	0.147	2.781	0.031	0.8	1	5.257	1.744	0.087	A
115.000-95.00			B	0.147	2.781		0.8	1	5.257			
0			C	0.147	2.781		0.8	1	5.257			
T11	0.892	0.752	A	0.147	2.781	0.029	0.8	1	5.257	1.668	0.083	A
95.000-75.000			B	0.147	2.781		0.8	1	5.257			
			C	0.147	2.781		0.8	1	5.257			
T12	0.892	0.828	A	0.162	2.726	0.028	0.8	1	6.034	1.620	0.081	A
75.000-55.000			B	0.162	2.726		0.8	1	6.034			
			C	0.162	2.726		0.8	1	6.034			
T13	0.892	0.752	A	0.147	2.781	0.026	0.8	1	5.257	1.459	0.073	A
55.000-35.000			B	0.147	2.781		0.8	1	5.257			
			C	0.147	2.781		0.8	1	5.257			
T14	0.892	0.752	A	0.147	2.781	0.023	0.8	1	5.257	1.289	0.064	A
35.000-15.000			B	0.147	2.781		0.8	1	5.257			
			C	0.147	2.781		0.8	1	5.257			
T15	0.223	0.381	A	0.15	2.773	0.020	0.8	1	2.672	0.355	0.036	A
15.000-5.000			B	0.15	2.773		0.8	1	2.672			
			C	0.15	2.773		0.8	1	2.672			
T16	0.000	0.278	A	0.308	2.274	0.020	0.8	1	1.573	0.062	0.012	C
5.000-0.000			B	0.308	2.274		0.8	1	1.573			
			C	0.308	2.274		0.8	1	1.573			
Sum Weight:	11.931	12.633								25.362		

Tower Forces - No Ice - Wind 90 To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z ksf	D_F	D_R	A_E ft^2	F K	w klf	Ctrl. Face
T1	0.299	0.936	A	0.172	2.692	0.038	0.85	1	6.440	1.221	0.061	B
295.000-275.0		TA 0.373	B	0.172	2.692		0.85	1	6.440			
00			C	0.172	2.692		0.85	1	6.440			
T2	0.705	0.859	A	0.157	2.746	0.037	0.85	1	5.613	1.916	0.096	A
275.000-255.0			B	0.157	2.746		0.85	1	5.613			
00			C	0.157	2.746		0.85	1	5.613			
T3	0.892	0.936	A	0.172	2.692	0.037	0.85	1	6.440	2.086	0.104	B
255.000-235.0		TA 0.373	B	0.172	2.692		0.85	1	6.440			
00			C	0.172	2.692		0.85	1	6.440			
T4	0.892	0.752	A	0.147	2.781	0.036	0.85	1	5.257	1.965	0.098	B
235.000-215.0			B	0.147	2.781		0.85	1	5.257			
00			C	0.147	2.781		0.85	1	5.257			
T5	0.892	0.752	A	0.147	2.781	0.035	0.85	1	5.257	1.927	0.096	B
215.000-195.0			B	0.147	2.781		0.85	1	5.257			
00			C	0.147	2.781		0.85	1	5.257			
T6	0.892	0.828	A	0.162	2.726	0.035	0.85	1	6.081	1.944	0.097	B
195.000-175.0			B	0.162	2.726		0.85	1	6.081			
00			C	0.162	2.726		0.85	1	6.081			
T7	0.892	0.752	A	0.147	2.781	0.034	0.85	1	5.257	1.841	0.092	B
175.000-155.0			B	0.147	2.781		0.85	1	5.257			
00			C	0.147	2.781		0.85	1	5.257			
T8	0.892	0.752	A	0.147	2.781	0.033	0.85	1	5.257	1.792	0.090	B
155.000-135.0			B	0.147	2.781		0.85	1	5.257			
00			C	0.147	2.781		0.85	1	5.257			
T9	0.892	0.828	A	0.162	2.726	0.032	0.85	1	6.081	1.790	0.089	B
135.000-115.0			B	0.162	2.726		0.85	1	6.081			
00			C	0.162	2.726		0.85	1	6.081			
T10	0.892	0.752	A	0.147	2.781	0.031	0.85	1	5.257	1.674	0.084	B
115.000-95.00			B	0.147	2.781		0.85	1	5.257			
0			C	0.147	2.781		0.85	1	5.257			
T11	0.892	0.752	A	0.147	2.781	0.029	0.85	1	5.257	1.601	0.080	B
95.000-75.000			B	0.147	2.781		0.85	1	5.257			
			C	0.147	2.781		0.85	1	5.257			
T12	0.892	0.828	A	0.162	2.726	0.028	0.85	1	6.081	1.559	0.078	B
75.000-55.000			B	0.162	2.726		0.85	1	6.081			
			C	0.162	2.726		0.85	1	6.081			
T13	0.892	0.752	A	0.147	2.781	0.026	0.85	1	5.257	1.400	0.070	B
55.000-35.000			B	0.147	2.781		0.85	1	5.257			
			C	0.147	2.781		0.85	1	5.257			
T14	0.892	0.752	A	0.147	2.781	0.023	0.85	1	5.257	1.237	0.062	B
35.000-15.000			B	0.147	2.781		0.85	1	5.257			
			C	0.147	2.781		0.85	1	5.257			
T15	0.223	0.381	A	0.15	2.773	0.020	0.85	1	2.672	0.343	0.034	B
15.000-5.000			B	0.15	2.773		0.85	1	2.672			
			C	0.15	2.773		0.85	1	2.672			
T16	0.000	0.278	A	0.308	2.274	0.020	0.85	1	1.573	0.062	0.012	C
5.000-0.000			B	0.308	2.274		0.85	1	1.573			
			C	0.308	2.274		0.85	1	1.573			
Sum Weight:	11.931	12.633								24.358		

Tower Forces - With Ice - Wind Normal To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z ksf	D_F	D_R	A_E ft^2	F K	w klf	Ctrl. Face
T1	1.385	2.630	A	0.596	1.807	0.003	1	1	30.744	0.210	0.011	C
295.000-275.0		TA 0.955	B	0.596	1.807		1	1	30.744			
00			C	0.596	1.807		1	1	30.744			
T2	3.048	2.414	A	0.566	1.829	0.003	1	1	28.272	0.254	0.013	C
275.000-255.0			B	0.566	1.829		1	1	28.272			
00			C	0.566	1.829		1	1	28.272			
T3	3.807	2.590	A	0.59	1.811	0.003	1	1	30.262	0.270	0.013	C
255.000-235.0		TA 0.945	B	0.59	1.811		1	1	30.262			
00			C	0.59	1.811		1	1	30.262			
T4	3.785	2.215	A	0.551	1.842	0.003	1	1	27.151	0.265	0.013	C
235.000-215.0			B	0.551	1.842		1	1	27.151			
00			C	0.551	1.842		1	1	27.151			
T5	3.762	2.192	A	0.548	1.846	0.003	1	1	26.885	0.259	0.013	C
215.000-195.0			B	0.548	1.846		1	1	26.885			
00			C	0.548	1.846		1	1	26.885			
T6	3.737	2.359	A	0.57	1.825	0.003	1	1	28.745	0.253	0.013	C
195.000-175.0			B	0.57	1.825		1	1	28.745			
00			C	0.57	1.825		1	1	28.745			
T7	3.709	2.142	A	0.54	1.853	0.003	1	1	26.279	0.247	0.012	C
175.000-155.0			B	0.54	1.853		1	1	26.279			
00			C	0.54	1.853		1	1	26.279			
T8	3.678	2.113	A	0.535	1.858	0.003	1	1	25.928	0.240	0.012	C
155.000-135.0			B	0.535	1.858		1	1	25.928			
00			C	0.535	1.858		1	1	25.928			
T9	3.643	2.265	A	0.556	1.838	0.003	1	1	27.614	0.232	0.012	C
135.000-115.0			B	0.556	1.838		1	1	27.614			
00			C	0.556	1.838		1	1	27.614			
T10	3.603	2.043	A	0.524	1.871	0.002	1	1	25.081	0.223	0.011	C
115.000-95.00			B	0.524	1.871		1	1	25.081			
0			C	0.524	1.871		1	1	25.081			
T11	3.556	2.000	A	0.517	1.879	0.002	1	1	24.548	0.213	0.011	C
95.000-75.000			B	0.517	1.879		1	1	24.548			
			C	0.517	1.879		1	1	24.548			
T12	3.498	2.123	A	0.533	1.861	0.002	1	1	25.872	0.201	0.010	C
75.000-55.000			B	0.533	1.861		1	1	25.872			
			C	0.533	1.861		1	1	25.872			
T13	3.422	1.878	A	0.496	1.906	0.002	1	1	23.044	0.185	0.009	C
55.000-35.000			B	0.496	1.906		1	1	23.044			
			C	0.496	1.906		1	1	23.044			
T14	3.307	1.777	A	0.477	1.931	0.002	1	1	21.775	0.163	0.008	C
35.000-15.000			B	0.477	1.931		1	1	21.775			
			C	0.477	1.931		1	1	21.775			
T15	0.786	0.838	A	0.46	1.957	0.002	1	1	10.304	0.050	0.005	C
15.000-5.000			B	0.46	1.957		1	1	10.304			
			C	0.46	1.957		1	1	10.304			
T16	0.000	0.440	A	0.665	1.778	0.002	1	1	4.966	0.012	0.002	C
5.000-0.000			B	0.665	1.778		1	1	4.966			
			C	0.665	1.778		1	1	4.966			
Sum Weight:	48.727	33.919								3.278		

Tower Forces - With Ice - Wind 60 To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z ksf	D_F	D_R	A_E ft^2	F K	w klf	Ctrl. Face
T1	1.385	2.630	A	0.596	1.807	0.003	0.8	1	30.553	0.210	0.010	A
295.000-275.0		TA 0.955	B	0.596	1.807		0.8	1	30.553			
00			C	0.596	1.807		0.8	1	30.553			
T2	3.048	2.414	A	0.566	1.829	0.003	0.8	1	28.272	0.254	0.013	A
275.000-255.0			B	0.566	1.829		0.8	1	28.272			
00			C	0.566	1.829		0.8	1	28.272			
T3	3.807	2.590	A	0.59	1.811	0.003	0.8	1	30.072	0.269	0.013	A
255.000-235.0		TA 0.945	B	0.59	1.811		0.8	1	30.072			
00			C	0.59	1.811		0.8	1	30.072			
T4	3.785	2.215	A	0.551	1.842	0.003	0.8	1	27.151	0.265	0.013	A
235.000-215.0			B	0.551	1.842		0.8	1	27.151			
00			C	0.551	1.842		0.8	1	27.151			
T5	3.762	2.192	A	0.548	1.846	0.003	0.8	1	26.885	0.259	0.013	A
215.000-195.0			B	0.548	1.846		0.8	1	26.885			
00			C	0.548	1.846		0.8	1	26.885			
T6	3.737	2.359	A	0.57	1.825	0.003	0.8	1	28.554	0.253	0.013	A
195.000-175.0			B	0.57	1.825		0.8	1	28.554			
00			C	0.57	1.825		0.8	1	28.554			
T7	3.709	2.142	A	0.54	1.853	0.003	0.8	1	26.279	0.247	0.012	A
175.000-155.0			B	0.54	1.853		0.8	1	26.279			
00			C	0.54	1.853		0.8	1	26.279			
T8	3.678	2.113	A	0.535	1.858	0.003	0.8	1	25.928	0.240	0.012	A
155.000-135.0			B	0.535	1.858		0.8	1	25.928			
00			C	0.535	1.858		0.8	1	25.928			
T9	3.643	2.265	A	0.556	1.838	0.003	0.8	1	27.423	0.231	0.012	A
135.000-115.0			B	0.556	1.838		0.8	1	27.423			
00			C	0.556	1.838		0.8	1	27.423			
T10	3.603	2.043	A	0.524	1.871	0.002	0.8	1	25.081	0.223	0.011	A
115.000-95.00			B	0.524	1.871		0.8	1	25.081			
0			C	0.524	1.871		0.8	1	25.081			
T11	3.556	2.000	A	0.517	1.879	0.002	0.8	1	24.548	0.213	0.011	A
95.000-75.000			B	0.517	1.879		0.8	1	24.548			
			C	0.517	1.879		0.8	1	24.548			
T12	3.498	2.123	A	0.533	1.861	0.002	0.8	1	25.682	0.200	0.010	A
75.000-55.000			B	0.533	1.861		0.8	1	25.682			
			C	0.533	1.861		0.8	1	25.682			
T13	3.422	1.878	A	0.496	1.906	0.002	0.8	1	23.044	0.185	0.009	A
55.000-35.000			B	0.496	1.906		0.8	1	23.044			
			C	0.496	1.906		0.8	1	23.044			
T14	3.307	1.777	A	0.477	1.931	0.002	0.8	1	21.775	0.163	0.008	A
35.000-15.000			B	0.477	1.931		0.8	1	21.775			
			C	0.477	1.931		0.8	1	21.775			
T15	0.786	0.838	A	0.46	1.957	0.002	0.8	1	10.304	0.050	0.005	A
15.000-5.000			B	0.46	1.957		0.8	1	10.304			
			C	0.46	1.957		0.8	1	10.304			
T16	0.000	0.440	A	0.665	1.778	0.002	0.8	1	4.966	0.012	0.002	C
5.000-0.000			B	0.665	1.778		0.8	1	4.966			
			C	0.665	1.778		0.8	1	4.966			
Sum Weight:	48.727	33.919								3.274		

Tower Forces - With Ice - Wind 90 To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z ksf	D_F	D_R	A_E ft^2	F K	w klf	Ctrl. Face
T1	1.385	2.630	A	0.596	1.807	0.003	0.85	1	30.601	0.202	0.010	B
295.000-275.0		TA 0.955	B	0.596	1.807		0.85	1	30.601			
00			C	0.596	1.807		0.85	1	30.601			
T2	3.048	2.414	A	0.566	1.829	0.003	0.85	1	28.272	0.254	0.013	A
275.000-255.0			B	0.566	1.829		0.85	1	28.272			
00			C	0.566	1.829		0.85	1	28.272			
T3	3.807	2.590	A	0.59	1.811	0.003	0.85	1	30.119	0.265	0.013	B
255.000-235.0		TA 0.945	B	0.59	1.811		0.85	1	30.119			
00			C	0.59	1.811		0.85	1	30.119			
T4	3.785	2.215	A	0.551	1.842	0.003	0.85	1	27.151	0.260	0.013	B
235.000-215.0			B	0.551	1.842		0.85	1	27.151			
00			C	0.551	1.842		0.85	1	27.151			
T5	3.762	2.192	A	0.548	1.846	0.003	0.85	1	26.885	0.255	0.013	B
215.000-195.0			B	0.548	1.846		0.85	1	26.885			
00			C	0.548	1.846		0.85	1	26.885			
T6	3.737	2.359	A	0.57	1.825	0.003	0.85	1	28.602	0.248	0.012	B
195.000-175.0			B	0.57	1.825		0.85	1	28.602			
00			C	0.57	1.825		0.85	1	28.602			
T7	3.709	2.142	A	0.54	1.853	0.003	0.85	1	26.279	0.242	0.012	B
175.000-155.0			B	0.54	1.853		0.85	1	26.279			
00			C	0.54	1.853		0.85	1	26.279			
T8	3.678	2.113	A	0.535	1.858	0.003	0.85	1	25.928	0.236	0.012	B
155.000-135.0			B	0.535	1.858		0.85	1	25.928			
00			C	0.535	1.858		0.85	1	25.928			
T9	3.643	2.265	A	0.556	1.838	0.003	0.85	1	27.471	0.227	0.011	B
135.000-115.0			B	0.556	1.838		0.85	1	27.471			
00			C	0.556	1.838		0.85	1	27.471			
T10	3.603	2.043	A	0.524	1.871	0.002	0.85	1	25.081	0.219	0.011	B
115.000-95.00			B	0.524	1.871		0.85	1	25.081			
0			C	0.524	1.871		0.85	1	25.081			
T11	3.556	2.000	A	0.517	1.879	0.002	0.85	1	24.548	0.209	0.010	B
95.000-75.000			B	0.517	1.879		0.85	1	24.548			
			C	0.517	1.879		0.85	1	24.548			
T12	3.498	2.123	A	0.533	1.861	0.002	0.85	1	25.729	0.196	0.010	B
75.000-55.000			B	0.533	1.861		0.85	1	25.729			
			C	0.533	1.861		0.85	1	25.729			
T13	3.422	1.878	A	0.496	1.906	0.002	0.85	1	23.044	0.181	0.009	B
55.000-35.000			B	0.496	1.906		0.85	1	23.044			
			C	0.496	1.906		0.85	1	23.044			
T14	3.307	1.777	A	0.477	1.931	0.002	0.85	1	21.775	0.159	0.008	B
35.000-15.000			B	0.477	1.931		0.85	1	21.775			
			C	0.477	1.931		0.85	1	21.775			
T15	0.786	0.838	A	0.46	1.957	0.002	0.85	1	10.304	0.049	0.005	B
15.000-5.000			B	0.46	1.957		0.85	1	10.304			
			C	0.46	1.957		0.85	1	10.304			
T16	0.000	0.440	A	0.665	1.778	0.002	0.85	1	4.966	0.012	0.002	C
5.000-0.000			B	0.665	1.778		0.85	1	4.966			
			C	0.665	1.778		0.85	1	4.966			
Sum Weight:	48.727	33.919								3.214		

Tower Forces - Service - Wind Normal To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z ksf	D_F	D_R	A_E ft^2	F K	w klf	Ctrl. Face
T1	0.299	0.936	A	0.172	2.692	0.012	1	1	6.583	0.444	0.022	C
295.000-275.0		TA 0.373	B	0.172	2.692		1	1	6.583			
00			C	0.172	2.692		1	1	6.583			
T2	0.705	0.859	A	0.157	2.746	0.012	1	1	5.613	0.614	0.031	C
275.000-255.0			B	0.157	2.746		1	1	5.613			
00			C	0.157	2.746		1	1	5.613			
T3	0.892	0.936	A	0.172	2.692	0.012	1	1	6.583	0.699	0.035	C
255.000-235.0		TA 0.373	B	0.172	2.692		1	1	6.583			
00			C	0.172	2.692		1	1	6.583			
T4	0.892	0.752	A	0.147	2.781	0.012	1	1	5.257	0.656	0.033	C
235.000-215.0			B	0.147	2.781		1	1	5.257			
00			C	0.147	2.781		1	1	5.257			
T5	0.892	0.752	A	0.147	2.781	0.011	1	1	5.257	0.643	0.032	C
215.000-195.0			B	0.147	2.781		1	1	5.257			
00			C	0.147	2.781		1	1	5.257			
T6	0.892	0.828	A	0.162	2.726	0.011	1	1	6.224	0.652	0.033	C
195.000-175.0			B	0.162	2.726		1	1	6.224			
00			C	0.162	2.726		1	1	6.224			
T7	0.892	0.752	A	0.147	2.781	0.011	1	1	5.257	0.614	0.031	C
175.000-155.0			B	0.147	2.781		1	1	5.257			
00			C	0.147	2.781		1	1	5.257			
T8	0.892	0.752	A	0.147	2.781	0.011	1	1	5.257	0.598	0.030	C
155.000-135.0			B	0.147	2.781		1	1	5.257			
00			C	0.147	2.781		1	1	5.257			
T9	0.892	0.828	A	0.162	2.726	0.010	1	1	6.224	0.600	0.030	C
135.000-115.0			B	0.162	2.726		1	1	6.224			
00			C	0.162	2.726		1	1	6.224			
T10	0.892	0.752	A	0.147	2.781	0.010	1	1	5.257	0.559	0.028	C
115.000-95.00			B	0.147	2.781		1	1	5.257			
0			C	0.147	2.781		1	1	5.257			
T11	0.892	0.752	A	0.147	2.781	0.009	1	1	5.257	0.534	0.027	C
95.000-75.000			B	0.147	2.781		1	1	5.257			
			C	0.147	2.781		1	1	5.257			
T12	0.892	0.828	A	0.162	2.726	0.009	1	1	6.224	0.523	0.026	C
75.000-55.000			B	0.162	2.726		1	1	6.224			
			C	0.162	2.726		1	1	6.224			
T13	0.892	0.752	A	0.147	2.781	0.008	1	1	5.257	0.467	0.023	C
55.000-35.000			B	0.147	2.781		1	1	5.257			
			C	0.147	2.781		1	1	5.257			
T14	0.892	0.752	A	0.147	2.781	0.007	1	1	5.257	0.413	0.021	C
35.000-15.000			B	0.147	2.781		1	1	5.257			
			C	0.147	2.781		1	1	5.257			
T15	0.223	0.381	A	0.15	2.773	0.007	1	1	2.672	0.114	0.011	C
15.000-5.000			B	0.15	2.773		1	1	2.672			
			C	0.15	2.773		1	1	2.672			
T16	0.000	0.278	A	0.308	2.274	0.007	1	1	1.573	0.020	0.004	C
5.000-0.000			B	0.308	2.274		1	1	1.573			
			C	0.308	2.274		1	1	1.573			
Sum Weight:	11.931	12.633								8.150		

Tower Forces - Service - Wind 60 To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z ksf	D_F	D_R	A_E ft^2	F K	w klf	Ctrl. Face
T1	0.299	0.936	A	0.172	2.692	0.012	0.8	1	6.393	0.438	0.022	A
295.000-275.0		TA 0.373	B	0.172	2.692		0.8	1	6.393			
00			C	0.172	2.692		0.8	1	6.393			
T2	0.705	0.859	A	0.157	2.746	0.012	0.8	1	5.613	0.614	0.031	A
275.000-255.0			B	0.157	2.746		0.8	1	5.613			
00			C	0.157	2.746		0.8	1	5.613			
T3	0.892	0.936	A	0.172	2.692	0.012	0.8	1	6.393	0.694	0.035	A
255.000-235.0		TA 0.373	B	0.172	2.692		0.8	1	6.393			
00			C	0.172	2.692		0.8	1	6.393			
T4	0.892	0.752	A	0.147	2.781	0.012	0.8	1	5.257	0.656	0.033	A
235.000-215.0			B	0.147	2.781		0.8	1	5.257			
00			C	0.147	2.781		0.8	1	5.257			
T5	0.892	0.752	A	0.147	2.781	0.011	0.8	1	5.257	0.643	0.032	A
215.000-195.0			B	0.147	2.781		0.8	1	5.257			
00			C	0.147	2.781		0.8	1	5.257			
T6	0.892	0.828	A	0.162	2.726	0.011	0.8	1	6.034	0.647	0.032	A
195.000-175.0			B	0.162	2.726		0.8	1	6.034			
00			C	0.162	2.726		0.8	1	6.034			
T7	0.892	0.752	A	0.147	2.781	0.011	0.8	1	5.257	0.614	0.031	A
175.000-155.0			B	0.147	2.781		0.8	1	5.257			
00			C	0.147	2.781		0.8	1	5.257			
T8	0.892	0.752	A	0.147	2.781	0.011	0.8	1	5.257	0.598	0.030	A
155.000-135.0			B	0.147	2.781		0.8	1	5.257			
00			C	0.147	2.781		0.8	1	5.257			
T9	0.892	0.828	A	0.162	2.726	0.010	0.8	1	6.034	0.595	0.030	A
135.000-115.0			B	0.162	2.726		0.8	1	6.034			
00			C	0.162	2.726		0.8	1	6.034			
T10	0.892	0.752	A	0.147	2.781	0.010	0.8	1	5.257	0.559	0.028	A
115.000-95.00			B	0.147	2.781		0.8	1	5.257			
0			C	0.147	2.781		0.8	1	5.257			
T11	0.892	0.752	A	0.147	2.781	0.009	0.8	1	5.257	0.534	0.027	A
95.000-75.000			B	0.147	2.781		0.8	1	5.257			
			C	0.147	2.781		0.8	1	5.257			
T12	0.892	0.828	A	0.162	2.726	0.009	0.8	1	6.034	0.519	0.026	A
75.000-55.000			B	0.162	2.726		0.8	1	6.034			
			C	0.162	2.726		0.8	1	6.034			
T13	0.892	0.752	A	0.147	2.781	0.008	0.8	1	5.257	0.467	0.023	A
55.000-35.000			B	0.147	2.781		0.8	1	5.257			
			C	0.147	2.781		0.8	1	5.257			
T14	0.892	0.752	A	0.147	2.781	0.007	0.8	1	5.257	0.413	0.021	A
35.000-15.000			B	0.147	2.781		0.8	1	5.257			
			C	0.147	2.781		0.8	1	5.257			
T15	0.223	0.381	A	0.15	2.773	0.007	0.8	1	2.672	0.114	0.011	A
15.000-5.000			B	0.15	2.773		0.8	1	2.672			
			C	0.15	2.773		0.8	1	2.672			
T16	0.000	0.278	A	0.308	2.274	0.007	0.8	1	1.573	0.020	0.004	C
5.000-0.000			B	0.308	2.274		0.8	1	1.573			
			C	0.308	2.274		0.8	1	1.573			
Sum Weight:	11.931	12.633								8.126		

Tower Forces - Service - Wind 90 To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z ksf	D_F	D_R	A_E ft^2	F K	w klf	Ctrl. Face
T1	0.299	0.936	A	0.172	2.692	0.012	0.85	1	6.440	0.391	0.020	B
295.000-275.0		TA 0.373	B	0.172	2.692		0.85	1	6.440			
00			C	0.172	2.692		0.85	1	6.440			
T2	0.705	0.859	A	0.157	2.746	0.012	0.85	1	5.613	0.614	0.031	A
275.000-255.0			B	0.157	2.746		0.85	1	5.613			
00			C	0.157	2.746		0.85	1	5.613			
T3	0.892	0.936	A	0.172	2.692	0.012	0.85	1	6.440	0.668	0.033	B
255.000-235.0		TA 0.373	B	0.172	2.692		0.85	1	6.440			
00			C	0.172	2.692		0.85	1	6.440			
T4	0.892	0.752	A	0.147	2.781	0.012	0.85	1	5.257	0.630	0.031	B
235.000-215.0			B	0.147	2.781		0.85	1	5.257			
00			C	0.147	2.781		0.85	1	5.257			
T5	0.892	0.752	A	0.147	2.781	0.011	0.85	1	5.257	0.617	0.031	B
215.000-195.0			B	0.147	2.781		0.85	1	5.257			
00			C	0.147	2.781		0.85	1	5.257			
T6	0.892	0.828	A	0.162	2.726	0.011	0.85	1	6.081	0.623	0.031	B
195.000-175.0			B	0.162	2.726		0.85	1	6.081			
00			C	0.162	2.726		0.85	1	6.081			
T7	0.892	0.752	A	0.147	2.781	0.011	0.85	1	5.257	0.590	0.029	B
175.000-155.0			B	0.147	2.781		0.85	1	5.257			
00			C	0.147	2.781		0.85	1	5.257			
T8	0.892	0.752	A	0.147	2.781	0.011	0.85	1	5.257	0.574	0.029	B
155.000-135.0			B	0.147	2.781		0.85	1	5.257			
00			C	0.147	2.781		0.85	1	5.257			
T9	0.892	0.828	A	0.162	2.726	0.010	0.85	1	6.081	0.573	0.029	B
135.000-115.0			B	0.162	2.726		0.85	1	6.081			
00			C	0.162	2.726		0.85	1	6.081			
T10	0.892	0.752	A	0.147	2.781	0.010	0.85	1	5.257	0.536	0.027	B
115.000-95.00			B	0.147	2.781		0.85	1	5.257			
0			C	0.147	2.781		0.85	1	5.257			
T11	0.892	0.752	A	0.147	2.781	0.009	0.85	1	5.257	0.513	0.026	B
95.000-75.000			B	0.147	2.781		0.85	1	5.257			
			C	0.147	2.781		0.85	1	5.257			
T12	0.892	0.828	A	0.162	2.726	0.009	0.85	1	6.081	0.500	0.025	B
75.000-55.000			B	0.162	2.726		0.85	1	6.081			
			C	0.162	2.726		0.85	1	6.081			
T13	0.892	0.752	A	0.147	2.781	0.008	0.85	1	5.257	0.449	0.022	B
55.000-35.000			B	0.147	2.781		0.85	1	5.257			
			C	0.147	2.781		0.85	1	5.257			
T14	0.892	0.752	A	0.147	2.781	0.007	0.85	1	5.257	0.396	0.020	B
35.000-15.000			B	0.147	2.781		0.85	1	5.257			
			C	0.147	2.781		0.85	1	5.257			
T15	0.223	0.381	A	0.15	2.773	0.007	0.85	1	2.672	0.110	0.011	B
15.000-5.000			B	0.15	2.773		0.85	1	2.672			
			C	0.15	2.773		0.85	1	2.672			
T16	0.000	0.278	A	0.308	2.274	0.007	0.85	1	1.573	0.020	0.004	C
5.000-0.000			B	0.308	2.274		0.85	1	1.573			
			C	0.308	2.274		0.85	1	1.573			
Sum Weight:	11.931	12.633								7.804		

Load Combinations

Comb. No.	Description

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice+1.0 Guy
3	1.2 Dead+1.0 Wind 30 deg - No Ice+1.0 Guy
4	1.2 Dead+1.0 Wind 60 deg - No Ice+1.0 Guy
5	1.2 Dead+1.0 Wind 90 deg - No Ice+1.0 Guy
6	1.2 Dead+1.0 Wind 120 deg - No Ice+1.0 Guy
7	1.2 Dead+1.0 Wind 150 deg - No Ice+1.0 Guy
8	1.2 Dead+1.0 Wind 180 deg - No Ice+1.0 Guy
9	1.2 Dead+1.0 Wind 210 deg - No Ice+1.0 Guy
10	1.2 Dead+1.0 Wind 240 deg - No Ice+1.0 Guy
11	1.2 Dead+1.0 Wind 270 deg - No Ice+1.0 Guy
12	1.2 Dead+1.0 Wind 300 deg - No Ice+1.0 Guy
13	1.2 Dead+1.0 Wind 330 deg - No Ice+1.0 Guy
14	1.2 Dead+1.0 Ice+1.0 Temp+Guy
15	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp+1.0 Guy
16	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp+1.0 Guy
17	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp+1.0 Guy
18	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp+1.0 Guy
19	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp+1.0 Guy
20	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp+1.0 Guy
21	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp+1.0 Guy
22	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp+1.0 Guy
23	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp+1.0 Guy
24	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp+1.0 Guy
25	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp+1.0 Guy
26	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp+1.0 Guy
27	Dead+Wind 0 deg - Service+Guy
28	Dead+Wind 30 deg - Service+Guy
29	Dead+Wind 60 deg - Service+Guy
30	Dead+Wind 90 deg - Service+Guy
31	Dead+Wind 120 deg - Service+Guy
32	Dead+Wind 150 deg - Service+Guy
33	Dead+Wind 180 deg - Service+Guy
34	Dead+Wind 210 deg - Service+Guy
35	Dead+Wind 240 deg - Service+Guy
36	Dead+Wind 270 deg - Service+Guy
37	Dead+Wind 300 deg - Service+Guy
38	Dead+Wind 330 deg - Service+Guy

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T1	295 - 275	Leg	Max Tension	9	10.019	-0.043	0.024
			Max. Compression	3	-28.353	0.118	-0.264
			Max. Mx	5	-11.368	-0.415	-0.038
			Max. My	13	-13.461	0.187	0.405
			Max. Vy	5	2.319	-0.175	0.022
			Max. Vx	3	-2.271	-0.067	0.165
		Diagonal	Max Tension	5	7.824	0.000	0.000
			Max. Compression	11	-7.833	0.000	0.000
			Max. Mx	21	-0.666	0.014	0.000
			Max. My	5	-0.937	0.000	-0.000
			Max. Vy	21	-0.015	0.000	0.000
			Max. Vx	5	0.000	0.000	0.000
		Horizontal	Max Tension	3	2.707	0.000	0.000
			Max. Compression	9	-2.729	0.000	0.000
			Max. Mx	15	0.127	0.009	0.000

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. My	11	2.697	0.000	0.000
			Max. Vy	15	-0.012	0.000	0.000
			Max. Vx	11	-0.000	0.000	0.000
		Top Girt	Max Tension	9	0.084	0.000	0.000
			Max. Compression	3	-0.085	0.000	0.000
			Max. Mx	15	0.007	0.009	0.000
			Max. My	11	0.045	0.000	0.000
			Max. Vy	21	-0.012	0.000	0.000
			Max. Vx	11	-0.000	0.000	0.000
		Bottom Girt	Max Tension	8	1.799	0.000	0.000
			Max. Compression	2	-1.698	0.000	0.000
			Max. Mx	15	-0.175	0.009	0.000
			Max. My	11	1.428	0.000	0.000
			Max. Vy	15	-0.012	0.000	0.000
			Max. Vx	11	-0.000	0.000	0.000
		Guy A	Bottom Tension	9	14.481		
			Top Tension	9	14.624		
			Top Cable Vert	9	11.878		
			Top Cable Norm	9	8.532		
			Top Cable Tan	9	0.006		
			Bot Cable Vert	9	-11.520		
			Bot Cable Norm	9	8.772		
			Bot Cable Tan	9	0.200		
		Guy B	Bottom Tension	13	14.322		
			Top Tension	13	14.465		
			Top Cable Vert	13	11.751		
			Top Cable Norm	13	8.436		
			Top Cable Tan	13	0.008		
			Bot Cable Vert	13	-11.393		
			Bot Cable Norm	13	8.676		
			Bot Cable Tan	13	0.197		
		Guy C	Bottom Tension	3	14.466		
			Top Tension	3	14.609		
			Top Cable Vert	3	11.866		
			Top Cable Norm	3	8.522		
			Top Cable Tan	3	0.006		
			Bot Cable Vert	3	-11.508		
			Bot Cable Norm	3	8.762		
			Bot Cable Tan	3	0.200		
		Top Guy Pull-Off	Max Tension	3	6.475	0.000	0.000
			Max. Compression	9	-6.441	0.000	0.000
			Max. Mx	21	1.000	0.027	0.000
			Max. My	11	-3.558	0.000	0.000
			Max. Vy	21	-0.035	0.000	0.000
			Max. Vx	11	-0.000	0.000	0.000
		Torque Arm Top	Max Tension	9	9.404	0.000	0.000
			Max. Compression	9	-4.444	0.000	0.000
			Max. Mx	9	0.561	-35.235	-0.000
			Max. My	11	-1.369	-16.982	-0.000
			Max. Vy	9	11.782	-35.235	-0.000
			Max. Vx	11	-0.000	-16.982	-0.000
T2	275 - 255	Leg	Max Tension	2	1.350	-0.030	-0.265
			Max. Compression	9	-29.991	0.070	-0.049
			Max. Mx	5	-16.978	1.246	-0.359
			Max. My	9	-16.418	-0.347	1.273
			Max. Vy	11	-3.165	0.020	-0.040
			Max. Vx	9	3.170	-0.347	1.273
		Diagonal	Max Tension	7	9.624	0.000	0.000
			Max. Compression	13	-9.869	0.000	0.000
			Max. Mx	20	1.361	0.014	0.000
			Max. My	11	0.834	0.000	0.000

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vy	20	0.014	0.000	0.000
			Max. Vx	11	-0.000	0.000	0.000
		Horizontal	Max Tension	3	1.838	0.000	0.000
			Max. Compression	9	-1.672	0.000	0.000
			Max. Mx	26	0.129	0.009	0.000
			Max. My	11	0.077	0.000	0.000
			Max. Vy	26	-0.011	0.000	0.000
			Max. Vx	11	-0.000	0.000	0.000
		Top Girt	Max Tension	7	0.700	0.000	0.000
			Max. Compression	13	-0.685	0.000	0.000
			Max. Mx	15	-0.009	0.009	0.000
			Max. My	11	0.678	0.000	0.000
			Max. Vy	15	-0.011	0.000	0.000
			Max. Vx	11	-0.000	0.000	0.000
		Bottom Girt	Max Tension	13	3.446	0.000	0.000
			Max. Compression	7	-3.309	0.000	0.000
			Max. Mx	21	0.275	0.009	0.000
			Max. My	11	-3.244	0.000	0.000
			Max. Vy	21	-0.011	0.000	0.000
			Max. Vx	11	-0.000	0.000	0.000
T3	255 - 235	Leg	Max Tension	8	10.677	0.045	0.010
			Max. Compression	2	-44.970	0.150	-0.010
			Max. Mx	11	-9.122	1.240	-0.335
			Max. My	3	-9.828	-0.362	1.255
			Max. Vy	11	-3.165	1.240	-0.335
			Max. Vx	9	3.174	0.397	-1.172
		Diagonal	Max Tension	13	9.740	0.000	0.000
			Max. Compression	7	-9.900	0.000	0.000
			Max. Mx	18	1.443	0.014	0.000
			Max. My	5	-0.267	0.000	-0.000
			Max. Vy	18	-0.014	0.000	0.000
			Max. Vx	5	0.000	0.000	0.000
		Horizontal	Max Tension	3	1.085	0.000	0.000
			Max. Compression	9	-1.048	0.000	0.000
			Max. Mx	16	0.182	0.009	0.000
			Max. My	11	0.928	0.000	0.000
			Max. Vy	16	-0.011	0.000	0.000
			Max. Vx	11	-0.000	0.000	0.000
		Top Girt	Max Tension	7	3.418	0.000	0.000
			Max. Compression	13	-3.377	0.000	0.000
			Max. Mx	21	-0.148	0.009	0.000
			Max. My	11	3.348	0.000	0.000
			Max. Vy	21	0.011	0.000	0.000
			Max. Vx	11	-0.000	0.000	0.000
		Bottom Girt	Max Tension	13	1.682	0.000	0.000
			Max. Compression	7	-1.594	0.000	0.000
			Max. Mx	16	-0.066	0.009	0.000
			Max. My	11	0.270	0.000	0.000
			Max. Vy	16	-0.011	0.000	0.000
			Max. Vx	11	-0.000	0.000	0.000
		Guy A	Bottom Tension	9	11.645		
			Top Tension	9	11.740		
			Top Cable Vert	9	9.000		
			Top Cable Norm	9	7.539		
			Top Cable Tan	9	0.001		
			Bot Cable Vert	9	-8.737		
			Bot Cable Norm	9	7.698		
			Bot Cable Tan	9	0.151		
		Guy B	Bottom Tension	13	11.527		
			Top Tension	13	11.623		
			Top Cable Vert	13	8.911		

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Top Cable Norm	13	7.462		
			Top Cable Tan	13	0.003		
			Bot Cable Vert	13	-8.648		
			Bot Cable Norm	13	7.620		
			Bot Cable Tan	13	0.150		
		Guy C	Bottom Tension	3	11.652		
			Top Tension	3	11.748		
			Top Cable Vert	3	9.006		
			Top Cable Norm	3	7.544		
			Top Cable Tan	3	0.001		
			Bot Cable Vert	3	-8.742		
			Bot Cable Norm	3	7.702		
			Bot Cable Tan	3	0.151		
		Top Guy Pull-Off	Max Tension	3	6.141	0.000	0.000
			Max. Compression	9	-5.930	0.000	0.000
			Max. Mx	16	1.016	0.026	0.000
			Max. My	11	-2.972	0.000	0.000
			Max. Vy	16	-0.035	0.000	0.000
			Max. Vx	11	-0.000	0.000	0.000
		Torque Arm Top	Max Tension	3	8.378	0.000	0.000
			Max. Compression	3	-3.978	0.000	0.000
			Max. Mx	9	0.297	-26.912	-0.000
			Max. My	11	-1.300	-12.662	-0.000
			Max. Vy	9	9.008	-26.912	-0.000
			Max. Vx	11	-0.000	-12.662	-0.000
T4	235 - 215	Leg	Max Tension	1	0.000	0.000	0.000
			Max. Compression	15	-41.050	0.063	-0.110
			Max. Mx	11	-22.664	-0.519	-0.038
			Max. My	7	-23.942	0.279	0.579
			Max. Vy	5	-1.246	-0.101	-0.008
			Max. Vx	13	1.460	0.049	0.097
		Diagonal	Max Tension	13	3.106	0.000	0.000
			Max. Compression	7	-3.384	0.000	0.000
			Max. Mx	17	-0.378	0.011	0.000
			Max. My	11	1.591	0.000	0.000
			Max. Vy	17	-0.011	0.000	0.000
			Max. Vx	11	-0.000	0.000	0.000
		Horizontal	Max Tension	7	0.610	0.000	0.000
			Max. Compression	13	-0.351	0.000	0.000
			Max. Mx	26	0.222	0.008	0.000
			Max. My	11	-0.008	0.000	0.000
			Max. Vy	26	0.011	0.000	0.000
			Max. Vx	11	-0.000	0.000	0.000
		Top Girt	Max Tension	7	1.611	0.000	0.000
			Max. Compression	13	-1.454	0.000	0.000
			Max. Mx	16	0.227	0.008	0.000
			Max. My	11	-0.089	0.000	0.000
			Max. Vy	16	0.011	0.000	0.000
			Max. Vx	11	-0.000	0.000	0.000
		Bottom Girt	Max Tension	13	0.885	0.000	0.000
			Max. Compression	7	-0.758	0.000	0.000
			Max. Mx	26	0.179	0.008	0.000
			Max. My	11	-0.250	0.000	0.000
			Max. Vy	26	0.011	0.000	0.000
			Max. Vx	11	-0.000	0.000	0.000
T5	215 - 195	Leg	Max Tension	1	0.000	0.000	0.000
			Max. Compression	19	-43.381	0.066	-0.116
			Max. Mx	13	-25.847	-0.386	-0.240
			Max. My	9	-26.407	-0.023	0.433
			Max. Vy	5	0.824	0.038	-0.072
			Max. Vx	9	0.939	0.040	0.071

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
		Diagonal	Max Tension	7	2.597	0.000	0.000
			Max. Compression	13	-3.015	0.000	0.000
			Max. Mx	25	-0.112	0.011	0.000
			Max. My	16	-0.328	0.000	0.000
			Max. Vy	25	-0.011	0.000	0.000
			Max. Vx	16	-0.000	0.000	0.000
		Horizontal	Max Tension	13	0.499	0.000	0.000
			Max. Compression	7	-0.196	0.000	0.000
			Max. Mx	26	0.241	0.008	0.000
			Max. My	11	0.158	0.000	0.000
			Max. Vy	26	0.011	0.000	0.000
			Max. Vx	11	-0.000	0.000	0.000
		Top Girt	Max Tension	7	0.776	0.000	0.000
			Max. Compression	13	-0.652	0.000	0.000
			Max. Mx	26	-0.003	0.008	0.000
			Max. My	11	0.440	0.000	0.000
			Max. Vy	26	0.011	0.000	0.000
			Max. Vx	11	-0.000	0.000	0.000
		Bottom Girt	Max Tension	13	1.045	0.000	0.000
			Max. Compression	7	-0.911	0.000	0.000
			Max. Mx	23	0.084	0.008	0.000
			Max. My	13	1.045	0.000	-0.000
			Max. Vy	23	0.011	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
T6	195 - 175	Leg	Max Tension	1	0.000	0.000	0.000
			Max. Compression	15	-48.961	0.076	-0.132
			Max. Mx	5	-28.436	-0.412	-0.045
			Max. My	13	-30.781	0.194	0.428
			Max. Vy	5	-0.833	-0.412	-0.045
			Max. Vx	9	0.947	0.103	-0.294
		Diagonal	Max Tension	13	2.866	0.000	0.000
			Max. Compression	13	-3.181	0.000	0.000
			Max. Mx	25	-0.168	0.011	0.000
			Max. My	13	-2.217	0.000	0.000
			Max. Vy	25	-0.011	0.000	0.000
			Max. Vx	13	-0.000	0.000	0.000
		Horizontal	Max Tension	7	0.590	0.000	0.000
			Max. Compression	13	-0.073	0.000	0.000
			Max. Mx	17	0.252	0.008	0.000
			Max. My	13	0.155	0.000	-0.000
			Max. Vy	17	-0.011	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Top Girt	Max Tension	7	1.111	0.000	0.000
			Max. Compression	13	-0.985	0.000	0.000
			Max. Mx	23	0.101	0.008	0.000
			Max. My	13	-0.985	0.000	-0.000
			Max. Vy	23	-0.011	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Bottom Girt	Max Tension	13	1.109	0.000	0.000
			Max. Compression	7	-0.946	0.000	0.000
			Max. Mx	14	0.112	0.008	0.000
			Max. My	13	-0.161	0.000	-0.000
			Max. Vy	14	-0.011	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Guy A	Bottom Tension	9	8.603		
			Top Tension	9	8.652		
			Top Cable Vert	9	5.784		
			Top Cable Norm	9	6.434		
			Top Cable Tan	9	0.001		
			Bot Cable Vert	9	-5.621		
			Bot Cable Norm	9	6.512		

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Bot Cable Tan	9	0.103		
		Guy B	Bottom Tension	13	8.581		
			Top Tension	13	8.631		
			Top Cable Vert	13	5.770		
			Top Cable Norm	13	6.418		
			Top Cable Tan	13	0.001		
			Bot Cable Vert	13	-5.607		
			Bot Cable Norm	13	6.496		
			Bot Cable Tan	13	0.102		
		Guy C	Bottom Tension	3	8.610		
			Top Tension	3	8.659		
			Top Cable Vert	3	5.788		
			Top Cable Norm	3	6.440		
			Top Cable Tan	3	0.001		
			Bot Cable Vert	3	-5.625		
			Bot Cable Norm	3	6.517		
			Bot Cable Tan	3	0.103		
		Top Guy Pull-Off	Max Tension	7	3.339	0.000	0.000
			Max. Compression	1	0.000	0.000	0.000
			Max. Mx	17	1.621	0.026	0.000
			Max. My	13	3.110	0.000	-0.000
			Max. Vy	17	-0.034	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
T7	175 - 155	Leg	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-51.614	0.080	-0.139
			Max. Mx	11	-28.724	-0.398	-0.028
			Max. My	7	-31.034	0.199	0.419
			Max. Vy	5	-0.842	-0.092	-0.001
			Max. Vx	13	0.914	0.049	0.079
		Diagonal	Max Tension	13	1.721	0.000	0.000
			Max. Compression	7	-2.017	0.000	0.000
			Max. Mx	17	-0.284	0.010	0.000
			Max. My	13	-0.855	0.000	0.000
			Max. Vy	17	-0.011	0.000	0.000
			Max. Vx	13	-0.000	0.000	0.000
		Horizontal	Max Tension	7	0.513	0.000	0.000
			Max. Compression	13	-0.194	0.000	0.000
			Max. Mx	25	0.203	0.008	0.000
			Max. My	13	0.344	0.000	-0.000
			Max. Vy	25	0.011	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Top Girt	Max Tension	7	0.983	0.000	0.000
			Max. Compression	13	-0.861	0.000	0.000
			Max. Mx	14	0.082	0.008	0.000
			Max. My	13	0.229	0.000	-0.000
			Max. Vy	14	0.011	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Bottom Girt	Max Tension	13	0.434	0.000	0.000
			Max. Compression	7	-0.276	0.000	0.000
			Max. Mx	14	0.113	0.008	0.000
			Max. My	13	0.434	0.000	-0.000
			Max. Vy	14	0.011	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
T8	155 - 135	Leg	Max Tension	1	0.000	0.000	0.000
			Max. Compression	15	-52.915	0.084	0.143
			Max. Mx	5	-32.114	0.399	-0.141
			Max. My	9	-30.399	-0.121	0.462
			Max. Vy	5	0.917	0.046	-0.085
			Max. Vx	2	-1.005	-0.106	-0.001
		Diagonal	Max Tension	7	2.517	0.000	0.000
			Max. Compression	13	-2.996	0.000	0.000

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Mx	16	0.106	0.010	0.000
			Max. My	13	0.490	0.000	0.000
			Max. Vy	16	-0.011	0.000	0.000
			Max. Vx	13	-0.000	0.000	0.000
		Horizontal	Max Tension	13	0.523	0.000	0.000
			Max. Compression	2	-0.200	0.000	0.000
			Max. Mx	14	0.228	0.008	0.000
			Max. My	13	0.522	0.000	-0.000
			Max. Vy	14	0.011	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Top Girt	Max Tension	7	0.495	0.000	0.000
			Max. Compression	13	-0.367	0.000	0.000
			Max. Mx	14	0.085	0.008	0.000
			Max. My	13	-0.367	0.000	-0.000
			Max. Vy	14	0.011	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Bottom Girt	Max Tension	2	1.058	0.000	0.000
			Max. Compression	7	-0.855	0.000	0.000
			Max. Mx	14	0.115	0.008	0.000
			Max. My	13	1.032	0.000	-0.000
			Max. Vy	14	0.011	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
T9	135 - 115	Leg	Max Tension	1	0.000	0.000	0.000
			Max. Compression	15	-58.092	0.093	0.157
			Max. Mx	11	-28.818	0.395	-0.122
			Max. My	2	-36.319	0.007	0.468
			Max. Vy	5	0.924	-0.310	-0.024
			Max. Vx	2	-1.007	-0.058	0.387
		Diagonal	Max Tension	13	2.784	0.000	0.000
			Max. Compression	13	-3.088	0.000	0.000
			Max. Mx	26	0.256	0.010	0.000
			Max. My	13	0.754	0.000	0.000
			Max. Vy	26	-0.010	0.000	0.000
			Max. Vx	13	-0.000	0.000	0.000
		Horizontal	Max Tension	7	0.669	0.000	0.000
			Max. Compression	13	-0.064	0.000	0.000
			Max. Mx	14	0.253	0.008	0.000
			Max. My	13	-0.064	0.000	-0.000
			Max. Vy	14	0.010	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Top Girt	Max Tension	7	1.067	0.000	0.000
			Max. Compression	2	-0.994	0.000	0.000
			Max. Mx	14	0.087	0.008	0.000
			Max. My	13	-0.946	0.000	-0.000
			Max. Vy	14	0.010	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Bottom Girt	Max Tension	13	0.954	0.000	0.000
			Max. Compression	2	-0.793	0.000	0.000
			Max. Mx	14	0.130	0.008	0.000
			Max. My	13	-0.488	0.000	-0.000
			Max. Vy	14	0.010	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Guy A	Bottom Tension	7	8.369		
			Top Tension	7	8.402		
			Top Cable Vert	7	4.356		
			Top Cable Norm	7	7.185		
			Top Cable Tan	7	0.005		
			Bot Cable Vert	7	-4.235		
			Bot Cable Norm	7	7.217		
			Bot Cable Tan	7	0.077		
		Guy B	Bottom Tension	13	8.376		

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Top Tension	13	8.410		
			Top Cable Vert	13	4.360		
			Top Cable Norm	13	7.191		
			Top Cable Tan	13	0.005		
			Bot Cable Vert	13	-4.239		
			Bot Cable Norm	13	7.224		
			Bot Cable Tan	13	0.077		
		Guy C	Bottom Tension	3	8.369		
			Top Tension	3	8.402		
			Top Cable Vert	3	4.356		
			Top Cable Norm	3	7.185		
			Top Cable Tan	3	0.006		
			Bot Cable Vert	3	-4.235		
			Bot Cable Norm	3	7.218		
			Bot Cable Tan	3	0.077		
		Top Guy Pull-Off	Max Tension	7	3.785	0.000	0.000
			Max. Compression	1	0.000	0.000	0.000
			Max. Mx	14	2.058	0.025	0.000
			Max. My	13	3.456	0.000	-0.000
			Max. Vy	14	-0.033	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
T10	115 - 95	Leg	Max Tension	1	0.000	0.000	0.000
			Max. Compression	21	-61.438	-0.191	0.002
			Max. Mx	11	-34.066	-0.373	-0.029
			Max. My	8	-30.054	0.009	0.372
			Max. Vy	5	-0.752	-0.106	-0.003
			Max. Vx	2	0.883	0.061	0.103
		Diagonal	Max Tension	2	1.654	0.000	0.000
			Max. Compression	2	-1.962	0.000	0.000
			Max. Mx	16	-0.356	0.010	0.000
			Max. My	13	-0.464	0.000	0.000
			Max. Vy	16	0.010	0.000	0.000
			Max. Vx	13	-0.000	0.000	0.000
		Horizontal	Max Tension	7	0.480	0.000	0.000
			Max. Compression	2	-0.154	0.000	0.000
			Max. Mx	14	0.258	0.008	0.000
			Max. My	13	0.245	0.000	-0.000
			Max. Vy	14	-0.010	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Top Girt	Max Tension	2	0.867	0.000	0.000
			Max. Compression	8	-0.713	0.000	0.000
			Max. Mx	14	0.080	0.008	0.000
			Max. My	13	0.583	0.000	-0.000
			Max. Vy	14	-0.010	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Bottom Girt	Max Tension	5	0.257	0.000	0.000
			Max. Compression	11	-0.055	0.000	0.000
			Max. Mx	14	0.132	0.008	0.000
			Max. My	13	0.057	0.000	-0.000
			Max. Vy	14	-0.010	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
T11	95 - 75	Leg	Max Tension	1	0.000	0.000	0.000
			Max. Compression	21	-62.666	-0.197	0.002
			Max. Mx	11	-34.372	-0.298	-0.018
			Max. My	8	-29.149	0.024	0.349
			Max. Vy	5	0.600	0.055	-0.092
			Max. Vx	2	-0.759	0.065	0.105
		Diagonal	Max Tension	2	1.351	0.000	0.000
			Max. Compression	9	-1.805	0.000	0.000
			Max. Mx	16	-0.049	0.010	0.000
			Max. My	13	0.768	0.000	0.000

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vy	16	0.010	0.000	0.000
			Max. Vx	13	-0.000	0.000	0.000
		Horizontal	Max Tension	7	0.455	0.000	0.000
			Max. Compression	2	-0.115	0.000	0.000
			Max. Mx	14	0.263	0.007	0.000
			Max. My	13	0.409	0.000	-0.000
			Max. Vy	14	0.010	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Top Girt	Max Tension	11	0.131	0.000	0.000
			Max. Compression	5	-0.019	0.000	0.000
			Max. Mx	14	0.081	0.007	0.000
			Max. My	13	0.031	0.000	-0.000
			Max. Vy	14	0.010	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Bottom Girt	Max Tension	2	0.785	0.000	0.000
			Max. Compression	13	-0.535	0.000	0.000
			Max. Mx	14	0.134	0.007	0.000
			Max. My	13	0.594	0.000	-0.000
			Max. Vy	14	0.010	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
T12	75 - 55	Leg	Max Tension	1	0.000	0.000	0.000
			Max. Compression	21	-66.674	-0.211	0.002
			Max. Mx	6	-42.639	-0.374	-0.164
			Max. My	2	-44.057	0.035	0.423
			Max. Vy	11	0.764	0.349	-0.122
			Max. Vx	2	0.825	-0.092	0.312
		Diagonal	Max Tension	13	2.138	0.000	0.000
			Max. Compression	7	-2.723	0.000	0.000
			Max. Mx	16	-0.706	0.009	0.000
			Max. My	13	0.706	0.000	0.000
			Max. Vy	16	-0.010	0.000	0.000
			Max. Vx	13	-0.000	0.000	0.000
		Horizontal	Max Tension	7	0.587	0.000	0.000
			Max. Compression	1	0.000	0.000	0.000
			Max. Mx	23	0.270	0.007	0.000
			Max. My	13	0.077	0.000	-0.000
			Max. Vy	23	0.010	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Top Girt	Max Tension	13	0.786	0.000	0.000
			Max. Compression	2	-0.704	0.000	0.000
			Max. Mx	14	0.082	0.007	0.000
			Max. My	13	-0.492	0.000	-0.000
			Max. Vy	14	0.010	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Bottom Girt	Max Tension	8	0.971	0.000	0.000
			Max. Compression	2	-0.758	0.000	0.000
			Max. Mx	23	0.229	0.007	0.000
			Max. My	13	-0.710	0.000	-0.000
			Max. Vy	23	0.010	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Guy A	Bottom Tension	7	6.516		
			Top Tension	7	6.534		
			Top Cable Vert	7	1.979		
			Top Cable Norm	7	6.227		
			Top Cable Tan	7	0.004		
			Bot Cable Vert	7	-1.896		
			Bot Cable Norm	7	6.234		
			Bot Cable Tan	7	0.043		
		Guy B	Bottom Tension	13	6.520		
			Top Tension	13	6.537		
			Top Cable Vert	13	1.980		

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Top Cable Norm	13	6.230		
			Top Cable Tan	13	0.004		
			Bot Cable Vert	13	-1.897		
			Bot Cable Norm	13	6.238		
			Bot Cable Tan	13	0.043		
		Guy C	Bottom Tension	3	6.506		
			Top Tension	3	6.523		
			Top Cable Vert	3	1.976		
			Top Cable Norm	3	6.217		
			Top Cable Tan	3	0.004		
			Bot Cable Vert	3	-1.893		
			Bot Cable Norm	3	6.224		
			Bot Cable Tan	3	0.043		
		Top Guy Pull-Off	Max Tension	7	3.324	0.000	0.000
			Max. Compression	1	0.000	0.000	0.000
			Max. Mx	14	2.224	0.024	0.000
			Max. My	13	3.041	0.000	-0.000
			Max. Vy	14	-0.032	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
T13	55 - 35	Leg	Max Tension	1	0.000	0.000	0.000
			Max. Compression	21	-69.627	-0.219	0.002
			Max. Mx	5	-34.229	0.341	-0.092
			Max. My	9	-34.492	-0.103	0.397
			Max. Vy	11	0.772	0.055	-0.102
			Max. Vx	2	0.835	0.070	0.109
		Diagonal	Max Tension	7	2.141	0.000	0.000
			Max. Compression	13	-2.416	0.000	0.000
			Max. Mx	16	-0.400	0.009	0.000
			Max. My	13	-0.294	0.000	0.000
			Max. Vy	16	-0.009	0.000	0.000
			Max. Vx	13	-0.000	0.000	0.000
		Horizontal	Max Tension	13	0.483	0.000	0.000
			Max. Compression	2	-0.124	0.000	0.000
			Max. Mx	14	0.330	0.007	0.000
			Max. My	13	0.180	0.000	-0.000
			Max. Vy	14	-0.009	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Top Girt	Max Tension	2	0.844	0.000	0.000
			Max. Compression	7	-0.740	0.000	0.000
			Max. Mx	23	-0.002	0.007	0.000
			Max. My	13	0.818	0.000	-0.000
			Max. Vy	23	-0.009	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Bottom Girt	Max Tension	7	0.463	0.000	0.000
			Max. Compression	13	-0.220	0.000	0.000
			Max. Mx	14	0.166	0.007	0.000
			Max. My	13	-0.220	0.000	-0.000
			Max. Vy	14	-0.009	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
T14	35 - 15	Leg	Max Tension	1	0.000	0.000	0.000
			Max. Compression	17	-70.249	0.112	0.189
			Max. Mx	11	-38.067	-0.327	-0.033
			Max. My	7	-39.745	0.178	0.383
			Max. Vy	11	-0.542	-0.119	-0.004
			Max. Vx	7	0.712	0.059	0.109
		Diagonal	Max Tension	13	1.141	0.000	0.000
			Max. Compression	7	-1.712	0.000	0.000
			Max. Mx	16	-0.100	0.008	0.000
			Max. My	13	0.157	0.000	0.000
			Max. Vy	16	-0.009	0.000	0.000
			Max. Vx	13	-0.000	0.000	0.000

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
		Horizontal	Max Tension	7	0.479	0.000	0.000
			Max. Compression	13	-0.076	0.000	0.000
			Max. Mx	14	0.251	0.006	0.000
			Max. My	13	0.318	0.000	-0.000
			Max. Vy	14	-0.009	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Top Girt	Max Tension	13	0.316	0.000	0.000
			Max. Compression	7	-0.229	0.000	0.000
			Max. Mx	14	0.056	0.006	0.000
			Max. My	13	0.316	0.000	-0.000
			Max. Vy	14	-0.009	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Bottom Girt	Max Tension	7	0.812	0.000	0.000
			Max. Compression	13	-0.602	0.000	0.000
			Max. Mx	17	0.209	0.006	0.000
			Max. My	13	0.238	0.000	-0.000
			Max. Vy	17	-0.009	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
T15	15 - 5	Leg	Max Tension	1	0.000	0.000	0.000
			Max. Compression	17	-70.256	0.059	0.192
			Max. Mx	24	-69.603	3.375	1.871
			Max. My	22	-69.631	-0.052	-3.860
			Max. Vy	18	10.147	-3.320	1.973
			Max. Vx	21	11.690	-0.063	-3.859
		Diagonal	Max Tension	13	1.564	0.000	0.000
			Max. Compression	7	-1.941	0.000	0.000
			Max. Mx	16	0.054	0.007	0.000
			Max. My	13	0.870	0.000	0.000
			Max. Vy	16	-0.008	0.000	0.000
			Max. Vx	13	-0.000	0.000	0.000
		Horizontal	Max Tension	21	0.354	0.000	0.000
			Max. Compression	13	-0.234	0.000	0.000
			Max. Mx	14	-0.057	0.006	0.000
			Max. My	13	0.148	0.000	-0.000
			Max. Vy	14	-0.008	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Top Girt	Max Tension	13	0.852	0.000	0.000
			Max. Compression	7	-0.711	0.000	0.000
			Max. Mx	17	0.017	0.006	0.000
			Max. My	13	-0.119	0.000	-0.000
			Max. Vy	17	-0.008	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Bottom Girt	Max Tension	19	6.968	0.000	0.000
			Max. Compression	1	0.000	0.000	0.000
			Max. Mx	14	6.815	0.006	0.000
			Max. My	13	4.131	0.000	-0.000
			Max. Vy	14	-0.008	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
T16	5 - 0	Leg	Max Tension	1	0.000	0.000	0.000
			Max. Compression	20	-73.672	0.198	0.444
			Max. Mx	16	-69.600	3.865	-0.062
			Max. My	7	-44.631	-0.316	1.374
			Max. Vy	19	12.236	-1.136	-0.008
			Max. Vx	7	-2.679	-0.256	1.331
		Diagonal	Max Tension	7	1.186	0.000	0.000
			Max. Compression	20	-9.427	0.000	0.000
			Max. Mx	15	-0.578	0.005	0.000
			Max. My	13	-1.871	0.000	0.000
			Max. Vy	15	-0.007	0.000	0.000
			Max. Vx	13	-0.000	0.000	0.000
		Horizontal	Max Tension	13	0.778	0.000	0.000

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Compression	7	-0.418	0.000	0.000
			Max. Mx	14	0.276	0.001	0.000
			Max. My	13	0.627	0.000	-0.000
			Max. Vy	14	-0.003	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Top Girt	Max Tension	15	7.956	0.000	0.000
			Max. Compression	1	0.000	0.000	0.000
			Max. Mx	14	7.804	0.004	0.000
			Max. My	13	4.872	0.000	-0.000
			Max. Vy	14	-0.006	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Bottom Girt	Max Tension	20	2.399	0.000	0.000
			Max. Compression	1	0.000	0.000	0.000
			Max. Mx	14	2.311	0.000	0.000
			Max. Vy	14	-0.001	0.000	0.000

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Mast	Max. Vert	15	208.175	-0.006	-0.262
	Max. H_x	7	120.086	0.524	0.029
	Max. H_z	5	115.665	0.101	0.337
	Max. M_x	1	0.000	-0.001	0.005
	Max. M_z	1	0.000	-0.001	0.005
	Max. Torsion	13	1.224	0.244	-0.462
	Min. Vert	1	62.207	-0.001	0.005
	Min. H_x	9	120.606	-0.534	0.033
	Min. H_z	2	131.074	0.000	-0.844
	Min. M_x	1	0.000	-0.001	0.005
	Min. M_z	1	0.000	-0.001	0.005
	Min. Torsion	7	-1.454	0.524	0.029
Guy C @ 210 ft Elev 0 ft Azimuth 240 deg	Max. Vert	35	-1.386	-1.593	0.920
	Max. H_x	10	-1.652	-0.823	0.475
	Max. H_z	3	-51.361	-44.711	26.903
	Min. Vert	3	-51.361	-44.711	26.903
	Min. H_x	3	-51.361	-44.711	26.903
	Min. H_z	10	-1.652	-0.823	0.475
Guy B @ 210 ft Elev 0 ft Azimuth 120 deg	Max. Vert	31	-1.449	1.636	0.945
	Max. H_x	13	-51.001	44.473	26.754
	Max. H_z	13	-51.001	44.473	26.754
	Min. Vert	13	-51.001	44.473	26.754
	Min. H_x	6	-1.662	0.829	0.479
	Min. H_z	6	-1.662	0.829	0.479
Guy A @ 210 ft Elev 0 ft Azimuth 0 deg	Max. Vert	27	-1.004	-0.000	-1.413
	Max. H_x	11	-25.419	1.451	-25.010
	Max. H_z	2	-1.596	-0.000	-0.891
	Min. Vert	9	-51.385	0.943	-52.184
	Min. H_x	5	-25.418	-1.452	-25.011
	Min. H_z	9	-51.385	0.943	-52.184

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K

Tower Mast Reaction Summary

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
Dead Only	62.207	0.001	-0.005	0.000	0.000	0.051
1.2 Dead+1.0 Wind 0 deg - No Ice+1.0 Guy	131.074	-0.000	0.844	0.000	0.000	-0.073
1.2 Dead+1.0 Wind 30 deg - No Ice+1.0 Guy	120.571	0.242	0.468	0.000	0.000	1.090
1.2 Dead+1.0 Wind 60 deg - No Ice+1.0 Guy	100.538	0.359	-0.208	0.000	0.000	0.305
1.2 Dead+1.0 Wind 90 deg - No Ice+1.0 Guy	115.665	-0.101	-0.337	0.000	0.000	-0.560
1.2 Dead+1.0 Wind 120 deg - No Ice+1.0 Guy	125.166	-0.450	-0.267	0.000	0.000	0.505
1.2 Dead+1.0 Wind 150 deg - No Ice+1.0 Guy	120.086	-0.524	-0.029	0.000	0.000	1.454
1.2 Dead+1.0 Wind 180 deg - No Ice+1.0 Guy	102.646	0.002	0.408	0.000	0.000	0.316
1.2 Dead+1.0 Wind 210 deg - No Ice+1.0 Guy	120.606	0.534	-0.033	0.000	0.000	-0.868
1.2 Dead+1.0 Wind 240 deg - No Ice+1.0 Guy	125.787	0.460	-0.270	0.000	0.000	-0.065
1.2 Dead+1.0 Wind 270 deg - No Ice+1.0 Guy	115.668	0.103	-0.335	0.000	0.000	0.771
1.2 Dead+1.0 Wind 300 deg - No Ice+1.0 Guy	100.295	-0.359	-0.207	0.000	0.000	-0.358
1.2 Dead+1.0 Wind 330 deg - No Ice+1.0 Guy	120.052	-0.244	0.462	0.000	0.000	-1.224
1.2 Dead+1.0 Ice+1.0 Temp+Guy	206.806	0.007	-0.013	0.000	0.000	0.199
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp+1.0 Guy	208.175	0.006	0.262	0.000	0.000	0.149
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp+1.0 Guy	207.693	-0.101	0.195	0.000	0.000	0.214
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp+1.0 Guy	207.228	-0.173	0.094	0.000	0.000	0.176
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp+1.0 Guy	207.664	-0.203	-0.017	0.000	0.000	0.145
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp+1.0 Guy	208.145	-0.203	-0.133	0.000	0.000	0.229
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp+1.0 Guy	207.701	-0.118	-0.210	0.000	0.000	0.304
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp+1.0 Guy	207.268	0.007	-0.240	0.000	0.000	0.251
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp+1.0 Guy	207.707	0.131	-0.209	0.000	0.000	0.185
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp+1.0 Guy	208.153	0.215	-0.133	0.000	0.000	0.224
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp+1.0 Guy	207.669	0.216	-0.016	0.000	0.000	0.254
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp+1.0 Guy	207.228	0.187	0.094	0.000	0.000	0.170
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp+1.0 Guy	207.691	0.114	0.195	0.000	0.000	0.095

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
Dead+Wind 0 deg - Service+Guy	63.994	0.001	-0.282	0.000	0.000	-0.024
Dead+Wind 30 deg - Service+Guy	65.376	0.145	-0.241	0.000	0.000	0.400
Dead+Wind 60 deg - Service+Guy	65.415	0.231	-0.138	0.000	0.000	0.125
Dead+Wind 90 deg - Service+Guy	64.866	0.260	-0.005	0.000	0.000	-0.172
Dead+Wind 120 deg - Service+Guy	63.406	0.235	0.129	0.000	0.000	0.199
Dead+Wind 150 deg - Service+Guy	65.324	0.134	0.238	0.000	0.000	0.536
Dead+Wind 180 deg - Service+Guy	65.677	0.001	0.287	0.000	0.000	0.133
Dead+Wind 210 deg - Service+Guy	65.383	-0.130	0.238	0.000	0.000	-0.291
Dead+Wind 240 deg - Service+Guy	63.428	-0.232	0.130	0.000	0.000	-0.016
Dead+Wind 270 deg - Service+Guy	64.869	-0.257	-0.005	0.000	0.000	0.280
Dead+Wind 300 deg - Service+Guy	65.385	-0.229	-0.137	0.000	0.000	-0.095
Dead+Wind 330 deg - Service+Guy	65.314	-0.144	-0.241	0.000	0.000	-0.427

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX	PY	PZ	PX	PY	PZ	% Error
	K	K	K	K	K	K	
1	0.000	-33.423	0.000	0.000	33.422	0.000	0.003%
2	-0.000	-39.851	-46.614	0.000	39.850	46.605	0.016%
3	22.764	-39.613	-39.428	-22.764	39.613	39.419	0.014%
4	37.429	-39.376	-21.610	-37.432	39.376	21.607	0.007%
5	41.952	-39.613	0.000	-41.946	39.613	0.004	0.012%
6	37.272	-39.851	21.519	-37.266	39.850	-21.516	0.012%
7	22.636	-39.613	39.207	-22.629	39.613	-39.203	0.014%
8	0.000	-39.376	46.540	-0.000	39.376	-46.540	0.001%
9	-22.764	-39.613	39.428	22.756	39.613	-39.424	0.014%
10	-37.493	-39.851	21.647	37.487	39.850	-21.643	0.012%
11	-41.952	-39.613	0.000	41.946	39.613	0.004	0.012%
12	-37.208	-39.376	-21.482	37.211	39.376	21.478	0.009%
13	-22.636	-39.613	-39.207	22.637	39.613	39.199	0.014%
14	0.000	-148.393	0.000	0.000	148.393	-0.003	0.002%
15	0.000	-148.561	-9.132	-0.000	148.561	9.130	0.001%
16	4.530	-148.393	-7.846	-4.530	148.393	7.840	0.004%
17	7.732	-148.225	-4.464	-7.731	148.225	4.463	0.001%
18	8.845	-148.393	0.000	-8.844	148.393	0.001	0.001%
19	7.722	-148.561	4.458	-7.717	148.561	-4.456	0.004%
20	4.523	-148.393	7.834	-4.522	148.393	-7.833	0.001%
21	0.000	-148.225	9.128	-0.000	148.225	-9.127	0.001%
22	-4.530	-148.393	7.846	4.529	148.393	-7.846	0.001%
23	-7.735	-148.561	4.466	7.730	148.561	-4.463	0.004%
24	-8.845	-148.393	0.000	8.844	148.393	0.001	0.001%
25	-7.719	-148.225	-4.456	7.718	148.225	4.456	0.001%
26	-4.523	-148.393	-7.834	4.523	148.393	7.827	0.004%
27	0.000	-33.499	-14.935	0.000	33.499	14.933	0.005%
28	7.293	-33.423	-12.633	-7.294	33.423	12.631	0.004%

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
29	11.992	-33.347	-6.924	-11.991	33.347	6.923	0.005%
30	13.441	-33.423	0.000	-13.440	33.423	0.001	0.004%
31	11.942	-33.499	6.895	-11.940	33.499	-6.894	0.005%
32	7.253	-33.423	12.562	-7.251	33.423	-12.561	0.004%
33	0.000	-33.347	14.911	-0.000	33.347	-14.910	0.004%
34	-7.293	-33.423	12.633	7.292	33.423	-12.632	0.004%
35	-12.013	-33.499	6.936	12.012	33.499	-6.935	0.003%
36	-13.441	-33.423	0.000	13.440	33.423	0.001	0.004%
37	-11.921	-33.347	-6.883	11.920	33.347	6.882	0.005%
38	-7.253	-33.423	-12.562	7.253	33.423	12.560	0.004%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	7	0.00000001	0.00011582
2	Yes	34	0.00012170	0.00014695
3	Yes	33	0.00012701	0.00014053
4	Yes	18	0.00011055	0.00010982
5	Yes	33	0.00011343	0.00011685
6	Yes	34	0.00010381	0.00011858
7	Yes	33	0.00012645	0.00013931
8	Yes	17	0.00003519	0.00012400
9	Yes	33	0.00012697	0.00014043
10	Yes	34	0.00010444	0.00011987
11	Yes	33	0.00011350	0.00011698
12	Yes	18	0.00014219	0.00012647
13	Yes	33	0.00012637	0.00013915
14	Yes	13	0.00015000	0.00007905
15	Yes	31	0.00013811	0.00001860
16	Yes	23	0.00015000	0.00008928
17	Yes	25	0.00012951	0.00002214
18	Yes	28	0.00014249	0.00001824
19	Yes	24	0.00015000	0.00007706
20	Yes	29	0.00013316	0.00001734
21	Yes	25	0.00000001	0.00002076
22	Yes	29	0.00013382	0.00001810
23	Yes	24	0.00015000	0.00007931
24	Yes	28	0.00013753	0.00001741
25	Yes	25	0.00013141	0.00002273
26	Yes	23	0.00015000	0.00008917
27	Yes	24	0.00013712	0.00006030
28	Yes	22	0.00011133	0.00005529
29	Yes	14	0.00000001	0.00006524
30	Yes	20	0.00000001	0.00005445
31	Yes	21	0.00014910	0.00006014
32	Yes	22	0.00000001	0.00005267
33	Yes	15	0.00000001	0.00005510
34	Yes	22	0.00011029	0.00005483
35	Yes	22	0.00000001	0.00004068
36	Yes	20	0.00000001	0.00005476
37	Yes	14	0.00000001	0.00006597
38	Yes	22	0.00000001	0.00005358

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	295 - 275	6.684	33	0.080	0.500
T2	275 - 255	6.428	33	0.086	0.473
T3	255 - 235	6.016	33	0.123	0.379
T4	235 - 215	5.623	33	0.086	0.272
T5	215 - 195	5.362	33	0.083	0.174
T6	195 - 175	5.237	27	0.089	0.155
T7	175 - 155	5.129	27	0.080	0.253
T8	155 - 135	4.928	27	0.102	0.329
T9	135 - 115	4.529	27	0.117	0.383
T10	115 - 95	4.093	27	0.104	0.418
T11	95 - 75	3.619	27	0.132	0.435
T12	75 - 55	2.989	27	0.158	0.433
T13	55 - 35	2.324	27	0.159	0.414
T14	35 - 15	1.618	27	0.189	0.381
T15	15 - 5	0.740	27	0.225	0.332
T16	5 - 0	0.247	27	0.234	0.302

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
295.000	5' Lightning Rod	33	6.684	0.080	0.500	76863
290.000	Sector1(CaAa=14000 Sq.in)No Ice	33	6.630	0.078	0.497	76863
285.000	Guy	33	6.571	0.078	0.493	38431
275.000	Sector1(CaAa=10000 Sq.in)No Ice	33	6.428	0.086	0.473	20995
260.000	Sector1(CaAa=10000 Sq.in)No Ice	33	6.127	0.118	0.406	85568
245.000	Guy	33	5.803	0.108	0.325	36004
185.000	Guy	27	5.188	0.084	0.211	94847
125.000	Guy	27	4.310	0.108	0.403	58904
65.000	Guy	27	2.656	0.159	0.423	236114

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	295 - 275	46.397	2	0.659	1.526
T2	275 - 255	44.414	2	0.677	1.443
T3	255 - 235	41.931	2	0.790	1.152
T4	235 - 215	39.509	2	0.663	0.817
T5	215 - 195	37.491	2	0.647	0.505
T6	195 - 175	35.156	2	0.659	0.421
T7	175 - 155	32.737	2	0.625	0.655
T8	155 - 135	30.095	2	0.698	0.869
T9	135 - 115	26.897	2	0.780	1.012
T10	115 - 95	23.683	2	0.755	1.109
T11	95 - 75	20.431	2	0.837	1.161

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T12	75 - 55	16.670	2	0.928	1.149
T13	55 - 35	12.762	2	0.945	1.096
T14	35 - 15	8.644	2	1.061	1.005
T15	15 - 5	3.876	2	1.194	0.861
T16	5 - 0	1.292	2	1.228	0.761

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
295.000	5' Lightning Rod	2	46.397	0.659	1.526	24815
290.000	Sector1(CaAa=14000 Sq.in)No Ice	2	45.932	0.653	1.518	24815
285.000	Guy	2	45.454	0.651	1.504	12408
275.000	Sector1(CaAa=10000 Sq.in)No Ice	2	44.414	0.677	1.443	6807
260.000	Sector1(CaAa=10000 Sq.in)No Ice	2	42.577	0.778	1.237	35788
245.000	Guy	2	40.667	0.740	0.983	10314
185.000	Guy	2	33.950	0.639	0.540	25875
125.000	Guy	2	25.273	0.767	1.065	18066
65.000	Guy	2	14.723	0.924	1.120	68806

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load / Allowable	Allowable Ratio	Criteria
T2	275	Leg	A325N	0.750	3	3.243	30.101	0.108 ✔	1	Bolt Tension
T3	255	Leg	A325N	0.750	3	2.974	30.101	0.099 ✔	1	Bolt Tension
T4	235	Leg	A325N	0.750	3	4.467	30.101	0.148 ✔	1	Bolt Tension
T5	215	Leg	A325N	0.750	3	4.562	30.101	0.152 ✔	1	Bolt Tension
T6	195	Leg	A325N	0.750	3	4.821	30.101	0.160 ✔	1	Bolt Tension
T7	175	Leg	A325N	0.750	3	5.441	30.101	0.181 ✔	1	Bolt Tension
T8	155	Leg	A325N	0.750	3	5.736	30.101	0.191 ✔	1	Bolt Tension
T9	135	Leg	A325N	0.750	3	5.880	30.101	0.195 ✔	1	Bolt Tension
T10	115	Leg	A325N	0.750	3	6.456	30.101	0.214 ✔	1	Bolt Tension
T11	95	Leg	A325N	0.750	3	6.827	30.101	0.227 ✔	1	Bolt Tension
T12	75	Leg	A325N	0.750	3	6.963	30.101	0.231 ✔	1	Bolt Tension
T13	55	Leg	A325N	0.750	3	7.409	30.101	0.246 ✔	1	Bolt Tension
T14	35	Leg	A325N	0.750	3	7.737	30.101	0.257 ✔	1	Bolt Tension
T15	15	Leg	A325N	0.750	3	7.806	30.101	0.259 ✔	1	Bolt Tension
T16	5	Leg	A325N	0.750	3	7.734	30.101	0.257 ✔	1	Bolt Tension

Guy Design Data

Section No.	Elevation ft	Size	Initial Tension K	Breaking Load K	Actual T_u K	Allowable ϕT_n K	Required S.F.	Actual S.F.
T1	285.000 (A) (849)	1/2 EModulus EHS	2.690	26.900	14.490	16.140	1.000	1.114 ✔
	285.000 (A) (850)	1/2 EModulus EHS	2.690	26.900	14.624	16.140	1.000	1.104 ✔
	285.000 (B) (845)	1/2 EModulus EHS	2.690	26.900	14.132	16.140	1.000	1.142 ✔
	285.000 (B) (846)	1/2 EModulus EHS	2.690	26.900	14.465	16.140	1.000	1.116 ✔
	285.000 (C) (838)	1/2 EModulus EHS	2.690	26.900	14.609	16.140	1.000	1.105 ✔
	285.000 (C) (839)	1/2 EModulus EHS	2.690	26.900	14.131	16.140	1.000	1.142 ✔
T3	245.000 (A) (834)	7/16 EModulus EHS	2.080	20.800	11.627	12.480	1.000	1.073 ✔
	245.000 (A) (835)	7/16 EModulus EHS	2.080	20.800	11.740	12.480	1.000	1.063 ✔
	245.000 (B) (830)	7/16 EModulus EHS	2.080	20.800	11.280	12.480	1.000	1.106 ✔
	245.000 (B) (831)	7/16 EModulus EHS	2.080	20.800	11.623	12.480	1.000	1.074 ✔
	245.000 (C) (823)	7/16 EModulus EHS	2.080	20.800	11.748	12.480	1.000	1.062 ✔
	245.000 (C) (824)	7/16 EModulus EHS	2.080	20.800	11.348	12.480	1.000	1.100 ✔
T6	185.000 (A) (822)	3/8 EModulus EHS	1.540	15.400	8.652	9.240	1.000	1.068 ✔
	185.000 (B) (821)	3/8 EModulus EHS	1.540	15.400	8.631	9.240	1.000	1.071 ✔
	185.000 (C) (817)	3/8 EModulus EHS	1.540	15.400	8.659	9.240	1.000	1.067 ✔
T9	125.000 (A) (816)	3/8 EModulus EHS	1.540	15.400	8.402	9.240	1.000	1.100 ✔
	125.000 (B) (815)	3/8 EModulus EHS	1.540	15.400	8.410	9.240	1.000	1.099 ✔
	125.000 (C) (811)	3/8 EModulus EHS	1.540	15.400	8.402	9.240	1.000	1.100 ✔

Section No.	Elevation ft	Size	Initial Tension K	Breaking Load K	Actual T_u K	Allowable ϕT_n K	Required S.F.	Actual S.F.
T12	65.000 (A) (810)	3/8 EModulus EHS	1.540	15.400	6.534	9.240	1.000	1.414 ✔
	65.000 (B) (809)	3/8 EModulus EHS	1.540	15.400	6.537	9.240	1.000	1.413 ✔
	65.000 (C) (805)	3/8 EModulus EHS	1.540	15.400	6.523	9.240	1.000	1.416 ✔

Compression Checks

Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	295 - 275	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-26.665	78.769	0.339 [1] ✔
T2	275 - 255	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-29.991	78.769	0.381 [1] ✔
T3	255 - 235	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-44.970	78.769	0.571 [1] ✔
T4	235 - 215	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-40.725	78.769	0.517 [1] ✔
T5	215 - 195	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-43.021	78.769	0.546 [1] ✔
T6	195 - 175	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-48.621	78.769	0.617 [1] ✔
T7	175 - 155	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-51.324	78.769	0.652 [1] ✔
T8	155 - 135	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-52.773	78.769	0.670 [1] ✔
T9	135 - 115	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-57.693	78.769	0.732 [1] ✔
T10	115 - 95	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-61.036	78.769	0.775 [1] ✔
T11	95 - 75	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-62.450	78.769	0.793 [1] ✔
T12	75 - 55	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-66.108	78.769	0.839 [1] ✔
T13	55 - 35	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-69.230	78.769	0.879 [1] ✔
T14	35 - 15	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-70.150	78.769	0.891 [1] ✔
T15	15 - 5	1 3/4	10.000	2.307	63.3 K=1.00	2.405	-70.091	80.761	0.868 [1] ✔
T16	5 - 0	2 1/4	5.292	2.238	47.7	3.976	-73.672	151.458	0.486 [1]

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
					K=1.00				✔

[1] P_u / ϕP_n controls

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	295 - 275	1	3.844	3.657	122.9 K=0.70	0.785	-7.833	11.750	0.667 [1] ✔
T2	275 - 255	1	3.844	3.657	122.9 K=0.70	0.785	-9.869	11.750	0.840 [1] ✔
T3	255 - 235	1	3.844	3.657	122.9 K=0.70	0.785	-9.900	11.750	0.843 [1] ✔
T4	235 - 215	.75	3.844	3.657	163.8 K=0.70	0.442	-3.384	3.718	0.910 [1] ✔
T5	215 - 195	.75	3.844	3.657	163.8 K=0.70	0.442	-3.015	3.718	0.811 [1] ✔
T6	195 - 175	.75	3.844	3.657	163.8 K=0.70	0.442	-3.181	3.718	0.856 [1] ✔
T7	175 - 155	.75	3.844	3.657	163.8 K=0.70	0.442	-2.017	3.718	0.543 [1] ✔
T8	155 - 135	.75	3.844	3.657	163.8 K=0.70	0.442	-2.996	3.718	0.806 [1] ✔
T9	135 - 115	.75	3.844	3.657	163.8 K=0.70	0.442	-3.088	3.718	0.831 [1] ✔
T10	115 - 95	.75	3.844	3.657	163.8 K=0.70	0.442	-1.962	3.718	0.528 [1] ✔
T11	95 - 75	.75	3.844	3.657	163.8 K=0.70	0.442	-1.805	3.718	0.485 [1] ✔
T12	75 - 55	.75	3.844	3.657	163.8 K=0.70	0.442	-2.723	3.718	0.732 [1] ✔
T13	55 - 35	.75	3.844	3.657	163.8 K=0.70	0.442	-2.416	3.718	0.650 [1] ✔
T14	35 - 15	.75	3.844	3.657	163.8 K=0.70	0.442	-1.712	3.718	0.461 [1] ✔
T15	15 - 5	.75	3.785	3.601	161.3 K=0.70	0.442	-1.941	3.836	0.506 [1] ✔
T16	5 - 0	1	2.314	1.852	89.9 K=1.01	0.785	-9.427	19.578	0.481 [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 K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	295 - 275	3/4	3.000	2.854	127.9 K=0.70	0.442	-2.729	6.104	0.447 [1]
T2	275 - 255	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.672	6.104	0.274 [1]
T3	255 - 235	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.048	6.104	0.172 [1]
T4	235 - 215	3/4	3.000	2.854	127.9 K=0.70	0.442	-0.758	6.104	0.124 [1]
T5	215 - 195	3/4	3.000	2.854	127.9 K=0.70	0.442	-0.801	6.104	0.131 [1]
T6	195 - 175	3/4	3.000	2.854	127.9 K=0.70	0.442	-0.904	6.104	0.148 [1]
T7	175 - 155	3/4	3.000	2.854	127.9 K=0.70	0.442	-0.953	6.104	0.156 [1]
T8	155 - 135	3/4	3.000	2.854	127.9 K=0.70	0.442	-0.977	6.104	0.160 [1]
T9	135 - 115	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.072	6.104	0.176 [1]
T10	115 - 95	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.134	6.104	0.186 [1]
T11	95 - 75	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.157	6.104	0.190 [1]
T12	75 - 55	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.231	6.104	0.202 [1]
T13	55 - 35	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.285	6.104	0.211 [1]
T14	35 - 15	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.297	6.104	0.212 [1]
T15	15 - 5	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.261	6.104	0.207 [1]
T16	5 - 0	3/4	1.500	1.313	89.0 K=1.06	0.442	-1.331	11.134	0.120 [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 K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	295 - 275	3/4	3.000	2.854	127.9 K=0.70	0.442	-0.523	6.104	0.086 [1]
T2	275 - 255	3/4	3.000	2.854	127.9 K=0.70	0.442	-0.685	6.104	0.112 [1]
T3	255 - 235	3/4	3.000	2.854	127.9 K=0.70	0.442	-3.377	6.104	0.553 [1]
T4	235 - 215	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.454	6.104	0.238 [1]
T5	215 - 195	3/4	3.000	2.854	127.9 K=0.70	0.442	-0.801	6.104	0.131 [1]

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T6	195 - 175	3/4	3.000	2.854	127.9 K=0.70	0.442	-0.985	6.104	0.161 [1]
T7	175 - 155	3/4	3.000	2.854	127.9 K=0.70	0.442	-0.953	6.104	0.156 [1]
T8	155 - 135	3/4	3.000	2.854	127.9 K=0.70	0.442	-0.977	6.104	0.160 [1]
T9	135 - 115	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.072	6.104	0.176 [1]
T10	115 - 95	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.134	6.104	0.186 [1]
T11	95 - 75	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.157	6.104	0.190 [1]
T12	75 - 55	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.231	6.104	0.202 [1]
T13	55 - 35	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.285	6.104	0.211 [1]
T14	35 - 15	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.297	6.104	0.212 [1]
T15	15 - 5	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.261	6.104	0.207 [1]
T16	5 - 0	3/4	2.769	2.581	115.6 K=0.70	0.442	-1.331	7.463	0.178 [1]

[1] P_u / ϕP_n controls

Bottom Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	295 - 275	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.698	6.104	0.278 [1]
T2	275 - 255	3/4	3.000	2.854	127.9 K=0.70	0.442	-3.309	6.104	0.542 [1]
T3	255 - 235	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.594	6.104	0.261 [1]
T4	235 - 215	3/4	3.000	2.854	127.9 K=0.70	0.442	-0.758	6.104	0.124 [1]
T5	215 - 195	3/4	3.000	2.854	127.9 K=0.70	0.442	-0.911	6.104	0.149 [1]
T6	195 - 175	3/4	3.000	2.854	127.9 K=0.70	0.442	-0.946	6.104	0.155 [1]
T7	175 - 155	3/4	3.000	2.854	127.9 K=0.70	0.442	-0.953	6.104	0.156 [1]
T8	155 - 135	3/4	3.000	2.854	127.9 K=0.70	0.442	-0.977	6.104	0.160 [1]
T9	135 - 115	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.072	6.104	0.176 [1]

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T10	115 - 95	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.134	6.104	0.186 [1] ✔
T11	95 - 75	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.157	6.104	0.190 [1] ✔
T12	75 - 55	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.231	6.104	0.202 [1] ✔
T13	55 - 35	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.285	6.104	0.211 [1] ✔
T14	35 - 15	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.297	6.104	0.212 [1] ✔
T15	15 - 5	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.261	6.104	0.207 [1] ✔
T16	5 - 0	3/4	0.231	0.044	3.1 K=1.10	0.442	-1.331	19.867	0.067 [1] ✔

[1] P_u / ϕP_n controls

Top Guy Pull-Off Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	295 - 275	4x5/8	3.000	2.854	151.9 K=0.80	2.500	-6.441	24.488	0.263 [1] ✔
T3	255 - 235	4x5/8	3.000	2.854	151.9 K=0.80	2.500	-5.930	24.488	0.242 [1] ✔

[1] P_u / ϕP_n controls

Torque-Arm Top Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	295 - 275 (840)	C12x20.7	3.000	2.927	44.0 K=1.00	6.090	-4.444	237.937	0.019
T1	295 - 275 (841)	C12x20.7	3.000	2.927	44.0 K=1.00	6.090	-4.442	237.937	0.019
T1	295 - 275 (847)	C12x20.7	3.000	2.927	44.0 K=1.00	6.090	-4.267	237.937	0.018
T1	295 - 275 (848)	C12x20.7	3.000	2.927	44.0 K=1.00	6.090	-4.264	237.937	0.018
T1	295 - 275 (851)	C12x20.7	3.000	2.927	44.0 K=1.00	6.090	-4.376	237.937	0.018
T1	295 - 275 (852)	C12x20.7	3.000	2.927	44.0 K=1.00	6.090	-4.387	237.937	0.018
T3	255 - 235 (825)	C12x20.7	3.000	2.927	44.0 K=1.00	6.090	-3.971	237.937	0.017

Section No.	Elevation (ft)	Size	L (ft)	L_u (ft)	Kl/r	A (in^2)	P_u (K)	ϕP_n (K)	Ratio $\frac{P_u}{\phi P_n}$
T3	255 - 235 (826)	C12x20.7	3.000	2.927	44.0 K=1.00	6.090	-3.978	237.937	0.017
T3	255 - 235 (832)	C12x20.7	3.000	2.927	44.0 K=1.00	6.090	-3.685	237.937	0.015
T3	255 - 235 (833)	C12x20.7	3.000	2.927	44.0 K=1.00	6.090	-3.677	237.937	0.015
T3	255 - 235 (836)	C12x20.7	3.000	2.927	44.0 K=1.00	6.090	-3.911	237.937	0.016
T3	255 - 235 (837)	C12x20.7	3.000	2.927	44.0 K=1.00	6.090	-3.915	237.937	0.016

Torque-Arm Top Bending Design Data

Section No.	Elevation (ft)	Size	M_{ux} (kip-ft)	ϕM_{nx} (kip-ft)	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} (kip-ft)	ϕM_{ny} (kip-ft)	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
T1	295 - 275 (840)	C12x20.7	-34.967	94.709	0.369	0.000	9.731	0.000
T1	295 - 275 (841)	C12x20.7	-34.974	94.709	0.369	-0.000	9.731	0.000
T1	295 - 275 (847)	C12x20.7	-34.080	94.709	0.360	-0.000	9.731	0.000
T1	295 - 275 (848)	C12x20.7	-34.033	94.709	0.359	0.000	9.731	0.000
T1	295 - 275 (851)	C12x20.7	-34.577	94.709	0.365	0.000	9.731	0.000
T1	295 - 275 (852)	C12x20.7	-34.699	94.709	0.366	-0.000	9.731	0.000
T3	255 - 235 (825)	C12x20.7	-26.640	94.709	0.281	0.000	9.731	0.000
T3	255 - 235 (826)	C12x20.7	-26.688	94.709	0.282	-0.000	9.731	0.000
T3	255 - 235 (832)	C12x20.7	-25.258	94.709	0.267	-0.000	9.731	0.000
T3	255 - 235 (833)	C12x20.7	-25.205	94.709	0.266	0.000	9.731	0.000
T3	255 - 235 (836)	C12x20.7	-26.354	94.709	0.278	0.000	9.731	0.000
T3	255 - 235 (837)	C12x20.7	-26.409	94.709	0.279	-0.000	9.731	0.000

Torque-Arm Top Interaction Design Data

Section No.	Elevation (ft)	Size	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
T1	295 - 275 (840)	C12x20.7	0.019	0.369	0.000	0.379	1.000	✔
T1	295 - 275 (841)	C12x20.7	0.019	0.369	0.000	0.379	1.000	✔
T1	295 - 275 (847)	C12x20.7	0.018	0.360	0.000	0.369	1.000	✔
T1	295 - 275 (848)	C12x20.7	0.018	0.359	0.000	0.368	1.000	✔
T1	295 - 275 (851)	C12x20.7	0.018	0.365	0.000	0.374	1.000	✔
T1	295 - 275 (852)	C12x20.7	0.018	0.366	0.000	0.376	1.000	✔
T3	255 - 235 (825)	C12x20.7	0.017	0.281	0.000	0.290	1.000	✔
T3	255 - 235 (826)	C12x20.7	0.017	0.282	0.000	0.290	1.000	✔

Section No.	Elevation ft	Size	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
T3	255 - 235 (832)	C12x20.7	0.015	0.267	0.000	0.274 ✔	1.000	✔
T3	255 - 235 (833)	C12x20.7	0.015	0.266	0.000	0.274 ✔	1.000	✔
T3	255 - 235 (836)	C12x20.7	0.016	0.278	0.000	0.286 ✔	1.000	✔
T3	255 - 235 (837)	C12x20.7	0.016	0.279	0.000	0.287 ✔	1.000	✔

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	295 - 275	1 3/4	20.000	2.404	65.9	2.405	10.019	108.238	0.093 [1] ✔
T2	275 - 255	1 3/4	20.000	0.385	10.6	2.405	1.350	108.238	0.012 [1] ✔
T3	255 - 235	1 3/4	20.000	2.404	65.9	2.405	10.677	108.238	0.099 [1] ✔

[1] $P_u / \phi P_n$ controls

Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	295 - 275	1	3.844	3.657	175.6	0.785	7.824	35.343	0.221 [1] ✔
T2	275 - 255	1	3.844	3.657	175.6	0.785	9.624	35.343	0.272 [1] ✔
T3	255 - 235	1	3.844	3.657	175.6	0.785	9.740	35.343	0.276 [1] ✔
T4	235 - 215	.75	3.844	3.657	234.1	0.442	3.106	19.880	0.156 [1] ✔
T5	215 - 195	.75	3.844	3.657	234.1	0.442	2.597	19.880	0.131 [1] ✔
T6	195 - 175	.75	3.844	3.657	234.1	0.442	2.866	19.880	0.144 [1] ✔
T7	175 - 155	.75	3.844	3.657	234.1	0.442	1.721	19.880	0.087 [1] ✔
T8	155 - 135	.75	3.844	3.657	234.1	0.442	2.517	19.880	0.127 [1] ✔

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T9	135 - 115	.75	3.844	3.657	234.1	0.442	2.784	19.880	0.140 [1]
T10	115 - 95	.75	3.844	3.657	234.1	0.442	1.654	19.880	0.083 [1]
T11	95 - 75	.75	3.844	3.657	234.1	0.442	1.351	19.880	0.068 [1]
T12	75 - 55	.75	3.844	3.657	234.1	0.442	2.138	19.880	0.108 [1]
T13	55 - 35	.75	3.844	3.657	234.1	0.442	2.142	19.880	0.108 [1]
T14	35 - 15	.75	3.844	3.657	234.1	0.442	1.141	19.880	0.057 [1]
T15	15 - 5	.75	3.785	3.601	230.4	0.442	1.564	19.880	0.079 [1]
T16	5 - 0	1	3.027	2.565	123.1	0.785	1.186	35.343	0.034 [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 K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	295 - 275	3/4	3.000	2.854	182.7	0.442	2.707	19.880	0.136 [1]
T2	275 - 255	3/4	3.000	2.854	182.7	0.442	1.838	19.880	0.092 [1]
T3	255 - 235	3/4	3.000	2.854	182.7	0.442	1.085	19.880	0.055 [1]
T4	235 - 215	3/4	3.000	2.854	182.7	0.442	0.758	19.880	0.038 [1]
T5	215 - 195	3/4	3.000	2.854	182.7	0.442	0.801	19.880	0.040 [1]
T6	195 - 175	3/4	3.000	2.854	182.7	0.442	0.904	19.880	0.045 [1]
T7	175 - 155	3/4	3.000	2.854	182.7	0.442	0.953	19.880	0.048 [1]
T8	155 - 135	3/4	3.000	2.854	182.7	0.442	0.977	19.880	0.049 [1]
T9	135 - 115	3/4	3.000	2.854	182.7	0.442	1.072	19.880	0.054 [1]
T10	115 - 95	3/4	3.000	2.854	182.7	0.442	1.134	19.880	0.057 [1]
T11	95 - 75	3/4	3.000	2.854	182.7	0.442	1.157	19.880	0.058 [1]
T12	75 - 55	3/4	3.000	2.854	182.7	0.442	1.231	19.880	0.062 [1]

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T13	55 - 35	3/4	3.000	2.854	182.7	0.442	1.285	19.880	0.065 [1] ✔
T14	35 - 15	3/4	3.000	2.854	182.7	0.442	1.297	19.880	0.065 [1] ✔
T15	15 - 5	3/4	3.000	2.854	182.7	0.442	1.261	19.880	0.063 [1] ✔
T16	5 - 0	3/4	1.500	1.313	84.0	0.442	1.331	19.880	0.067 [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 K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	295 - 275	3/4	3.000	2.854	182.7	0.442	0.523	19.880	0.026 [1] ✔
T2	275 - 255	3/4	3.000	2.854	182.7	0.442	0.700	19.880	0.035 [1] ✔
T3	255 - 235	3/4	3.000	2.854	182.7	0.442	3.418	19.880	0.172 [1] ✔
T4	235 - 215	3/4	3.000	2.854	182.7	0.442	1.611	19.880	0.081 [1] ✔
T5	215 - 195	3/4	3.000	2.854	182.7	0.442	0.801	19.880	0.040 [1] ✔
T6	195 - 175	3/4	3.000	2.854	182.7	0.442	1.111	19.880	0.056 [1] ✔
T7	175 - 155	3/4	3.000	2.854	182.7	0.442	0.983	19.880	0.049 [1] ✔
T8	155 - 135	3/4	3.000	2.854	182.7	0.442	0.977	19.880	0.049 [1] ✔
T9	135 - 115	3/4	3.000	2.854	182.7	0.442	1.072	19.880	0.054 [1] ✔
T10	115 - 95	3/4	3.000	2.854	182.7	0.442	1.134	19.880	0.057 [1] ✔
T11	95 - 75	3/4	3.000	2.854	182.7	0.442	1.157	19.880	0.058 [1] ✔
T12	75 - 55	3/4	3.000	2.854	182.7	0.442	1.231	19.880	0.062 [1] ✔
T13	55 - 35	3/4	3.000	2.854	182.7	0.442	1.285	19.880	0.065 [1] ✔
T14	35 - 15	3/4	3.000	2.854	182.7	0.442	1.297	19.880	0.065 [1] ✔
T15	15 - 5	3/4	3.000	2.854	182.7	0.442	1.261	19.880	0.063 [1] ✔
T16	5 - 0	3/4	2.769	2.581	165.2	0.442	7.956	19.880	0.400 [1] ✔

[1] P_u / ϕP_n controls

Bottom Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	295 - 275	3/4	3.000	2.854	182.7	0.442	1.799	19.880	0.090 [1] ✔
T2	275 - 255	3/4	3.000	2.854	182.7	0.442	3.446	19.880	0.173 [1] ✔
T3	255 - 235	3/4	3.000	2.854	182.7	0.442	1.682	19.880	0.085 [1] ✔
T4	235 - 215	3/4	3.000	2.854	182.7	0.442	0.885	19.880	0.045 [1] ✔
T5	215 - 195	3/4	3.000	2.854	182.7	0.442	1.045	19.880	0.053 [1] ✔
T6	195 - 175	3/4	3.000	2.854	182.7	0.442	1.109	19.880	0.056 [1] ✔
T7	175 - 155	3/4	3.000	2.854	182.7	0.442	0.953	19.880	0.048 [1] ✔
T8	155 - 135	3/4	3.000	2.854	182.7	0.442	1.058	19.880	0.053 [1] ✔
T9	135 - 115	3/4	3.000	2.854	182.7	0.442	1.072	19.880	0.054 [1] ✔
T10	115 - 95	3/4	3.000	2.854	182.7	0.442	1.134	19.880	0.057 [1] ✔
T11	95 - 75	3/4	3.000	2.854	182.7	0.442	1.157	19.880	0.058 [1] ✔
T12	75 - 55	3/4	3.000	2.854	182.7	0.442	1.231	19.880	0.062 [1] ✔
T13	55 - 35	3/4	3.000	2.854	182.7	0.442	1.285	19.880	0.065 [1] ✔
T14	35 - 15	3/4	3.000	2.854	182.7	0.442	1.297	19.880	0.065 [1] ✔
T15	15 - 5	3/4	3.000	2.854	182.7	0.442	6.968	19.880	0.351 [1] ✔
T16	5 - 0	3/4	0.231	0.044	2.8	0.442	2.399	19.880	0.121 [1] ✔

[1] P_u / ϕP_n controls

Top Guy Pull-Off Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	295 - 275	4x5/8	3.000	2.854	189.8	2.500	6.475	112.500	0.058 [1] ✔
T3	255 - 235	4x5/8	3.000	2.854	189.8	2.500	6.141	112.500	0.055 [1]

Section No.	Elevation (ft)	Size	L (ft)	L_u (ft)	Kl/r	A (in^2)	P_u (K)	ϕP_n (K)	Ratio $\frac{P_u}{\phi P_n}$
T6	195 - 175	4x5/8	3.000	2.854	189.8	2.500	3.339	112.500	0.030 [1]
T9	135 - 115	4x5/8	3.000	2.854	189.8	2.500	3.785	112.500	0.034 [1]
T12	75 - 55	4x5/8	3.000	2.854	189.8	2.500	3.324	112.500	0.030 [1]

[1] P_u / ϕP_n controls

Torque-Arm Top Design Data

Section No.	Elevation (ft)	Size	L (ft)	L_u (ft)	Kl/r	A (in^2)	P_u (K)	ϕP_n (K)	Ratio $\frac{P_u}{\phi P_n}$
T1	295 - 275 (840)	C12x20.7	3.000	2.927	44.0	4.568	0.550	222.666	0.002
T1	295 - 275 (841)	C12x20.7	3.000	2.927	44.0	4.568	0.696	222.666	0.003
T1	295 - 275 (847)	C12x20.7	3.000	2.927	44.0	4.568	0.544	222.666	0.002
T1	295 - 275 (848)	C12x20.7	3.000	2.927	44.0	4.568	0.572	222.666	0.003
T1	295 - 275 (851)	C12x20.7	3.000	2.927	44.0	4.568	0.705	222.666	0.003
T1	295 - 275 (852)	C12x20.7	3.000	2.927	44.0	4.568	0.561	222.666	0.003
T3	255 - 235 (825)	C12x20.7	3.000	2.927	44.0	4.568	0.271	222.666	0.001
T3	255 - 235 (826)	C12x20.7	3.000	2.927	44.0	4.568	0.411	222.666	0.002
T3	255 - 235 (832)	C12x20.7	3.000	2.927	44.0	4.568	0.261	222.666	0.001
T3	255 - 235 (833)	C12x20.7	3.000	2.927	44.0	4.568	0.305	222.666	0.001
T3	255 - 235 (836)	C12x20.7	3.000	2.927	44.0	4.568	0.419	222.666	0.002
T3	255 - 235 (837)	C12x20.7	3.000	2.927	44.0	4.568	0.297	222.666	0.001

Torque-Arm Top Bending Design Data

Section No.	Elevation (ft)	Size	M_{ux} (kip-ft)	ϕM_{nx} (kip-ft)	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} (kip-ft)	ϕM_{ny} (kip-ft)	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
T1	295 - 275 (840)	C12x20.7	-34.842	94.709	0.368	0.000	9.731	0.000
T1	295 - 275 (841)	C12x20.7	-34.294	94.709	0.362	-0.000	9.731	0.000
T1	295 - 275 (847)	C12x20.7	-34.847	94.709	0.368	-0.000	9.731	0.000
T1	295 - 275 (848)	C12x20.7	-35.114	94.709	0.371	0.000	9.731	0.000
T1	295 - 275 (851)	C12x20.7	-34.220	94.709	0.361	0.000	9.731	0.000
T1	295 - 275 (852)	C12x20.7	-35.235	94.709	0.372	-0.000	9.731	0.000
T3	255 - 235 (825)	C12x20.7	-26.593	94.709	0.281	0.000	9.731	0.000
T3	255 - 235 (826)	C12x20.7	-25.466	94.709	0.269	-0.000	9.731	0.000
T3	255 - 235 (832)	C12x20.7	-26.636	94.709	0.281	-0.000	9.731	0.000
T3	255 - 235 (833)	C12x20.7	-26.864	94.709	0.284	0.000	9.731	0.000
T3	255 - 235 (836)	C12x20.7	-25.431	94.709	0.269	0.000	9.731	0.000
T3	255 - 235 (837)	C12x20.7	-26.912	94.709	0.284	-0.000	9.731	0.000

Torque-Arm Top Interaction Design Data

Section No.	Elevation ft	Size	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
T1	295 - 275 (840)	C12x20.7	0.002	0.368	0.000	0.369	1.000	✔
T1	295 - 275 (841)	C12x20.7	0.003	0.362	0.000	0.364	1.000	✔
T1	295 - 275 (847)	C12x20.7	0.002	0.368	0.000	0.369	1.000	✔
T1	295 - 275 (848)	C12x20.7	0.003	0.371	0.000	0.372	1.000	✔
T1	295 - 275 (851)	C12x20.7	0.003	0.361	0.000	0.363	1.000	✔
T1	295 - 275 (852)	C12x20.7	0.003	0.372	0.000	0.373	1.000	✔
T3	255 - 235 (825)	C12x20.7	0.001	0.281	0.000	0.281	1.000	✔
T3	255 - 235 (826)	C12x20.7	0.002	0.269	0.000	0.270	1.000	✔
T3	255 - 235 (832)	C12x20.7	0.001	0.281	0.000	0.282	1.000	✔
T3	255 - 235 (833)	C12x20.7	0.001	0.284	0.000	0.284	1.000	✔
T3	255 - 235 (836)	C12x20.7	0.002	0.269	0.000	0.269	1.000	✔
T3	255 - 235 (837)	C12x20.7	0.001	0.284	0.000	0.285	1.000	✔

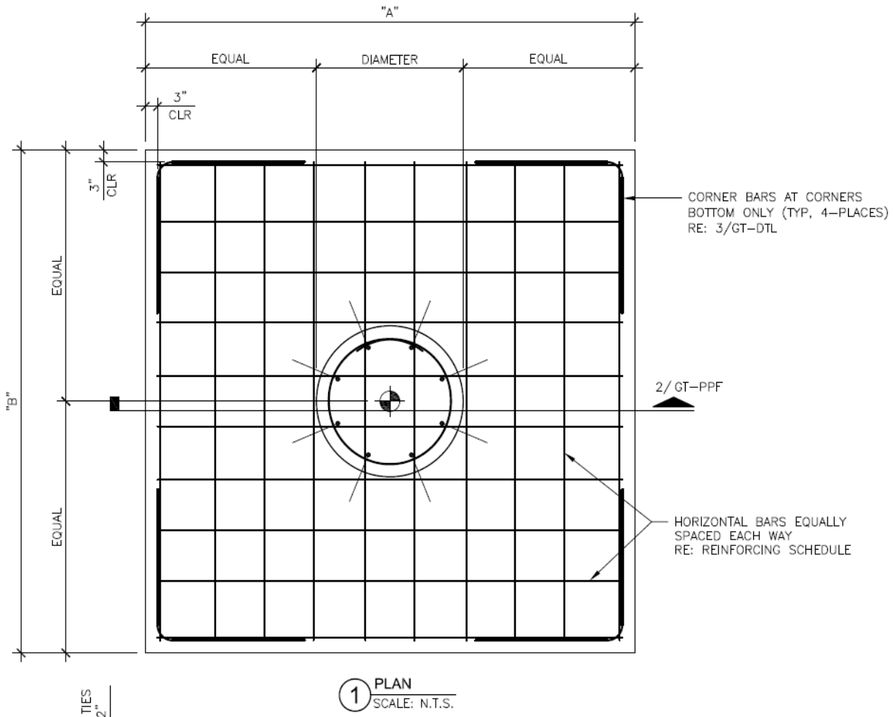
Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T1	295 - 275	Leg	1 3/4	3	-26.665	78.769	33.9	Pass
T2	275 - 255	Leg	1 3/4	57	-29.991	78.769	38.1	Pass
T3	255 - 235	Leg	1 3/4	111	-44.970	78.769	57.1	Pass
T4	235 - 215	Leg	1 3/4	164	-40.725	78.769	51.7	Pass
T5	215 - 195	Leg	1 3/4	217	-43.021	78.769	54.6	Pass
T6	195 - 175	Leg	1 3/4	272	-48.621	78.769	61.7	Pass
T7	175 - 155	Leg	1 3/4	325	-51.324	78.769	65.2	Pass
T8	155 - 135	Leg	1 3/4	379	-52.773	78.769	67.0	Pass
T9	135 - 115	Leg	1 3/4	435	-57.693	78.769	73.2	Pass
T10	115 - 95	Leg	1 3/4	489	-61.036	78.769	77.5	Pass
T11	95 - 75	Leg	1 3/4	543	-62.450	78.769	79.3	Pass
T12	75 - 55	Leg	1 3/4	597	-66.108	78.769	83.9	Pass
T13	55 - 35	Leg	1 3/4	651	-69.230	78.769	87.9	Pass
T14	35 - 15	Leg	1 3/4	705	-70.150	78.769	89.1	Pass
T15	15 - 5	Leg	1 3/4	759	-70.091	80.761	86.8	Pass
T16	5 - 0	Leg	2 1/4	789	-73.672	151.458	48.6	Pass
T1	295 - 275	Diagonal	1	40	-7.833	11.750	66.7	Pass
T2	275 - 255	Diagonal	1	65	-9.869	11.750	84.0	Pass
T3	255 - 235	Diagonal	1	161	-9.900	11.750	84.3	Pass
T4	235 - 215	Diagonal	.75	214	-3.384	3.718	91.0	Pass
T5	215 - 195	Diagonal	.75	227	-3.015	3.718	81.1	Pass
T6	195 - 175	Diagonal	.75	305	-3.181	3.718	85.6	Pass
T7	175 - 155	Diagonal	.75	376	-2.017	3.718	54.3	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T8	155 - 135	Diagonal	.75	389	-2.996	3.718	80.6	Pass
T9	135 - 115	Diagonal	.75	467	-3.088	3.718	83.1	Pass
T10	115 - 95	Diagonal	.75	539	-1.962	3.718	52.8	Pass
T11	95 - 75	Diagonal	.75	552	-1.805	3.718	48.5	Pass
T12	75 - 55	Diagonal	.75	605	-2.723	3.718	73.2	Pass
T13	55 - 35	Diagonal	.75	701	-2.416	3.718	65.0	Pass
T14	35 - 15	Diagonal	.75	712	-1.712	3.718	46.1	Pass
T15	15 - 5	Diagonal	.75	766	-1.941	3.836	50.6	Pass
T16	5 - 0	Diagonal	1	798	-9.427	19.578	48.1	Pass
T1	295 - 275	Horizontal	3/4	45	-2.729	6.104	44.7	Pass
T2	275 - 255	Horizontal	3/4	75	-1.672	6.104	27.4	Pass
T3	255 - 235	Horizontal	3/4	140	-1.048	6.104	17.2	Pass
T4	235 - 215	Horizontal	3/4	176	-0.758	6.104	12.4	Pass
T5	215 - 195	Horizontal	3/4	235	-0.801	6.104	13.1	Pass
T6	195 - 175	Horizontal	3/4	284	-0.904	6.104	14.8	Pass
T7	175 - 155	Horizontal	3/4	338	-0.953	6.104	15.6	Pass
T8	155 - 135	Horizontal	3/4	393	-0.977	6.104	16.0	Pass
T9	135 - 115	Horizontal	3/4	451	-1.072	6.104	17.6	Pass
T10	115 - 95	Horizontal	3/4	506	-1.134	6.104	18.6	Pass
T11	95 - 75	Horizontal	3/4	554	-1.157	6.104	19.0	Pass
T12	75 - 55	Horizontal	3/4	608	-1.231	6.104	20.2	Pass
T13	55 - 35	Horizontal	3/4	668	-1.285	6.104	21.1	Pass
T14	35 - 15	Horizontal	3/4	717	-1.297	6.104	21.2	Pass
T15	15 - 5	Horizontal	3/4	769	-1.261	6.104	20.7	Pass
T16	5 - 0	Horizontal	3/4	801	-1.331	11.134	12.0	Pass
T1	295 - 275	Top Girt	3/4	4	-0.523	6.104	8.6	Pass
T2	275 - 255	Top Girt	3/4	59	-0.685	6.104	11.2	Pass
T3	255 - 235	Top Girt	3/4	113	-3.377	6.104	55.3	Pass
T4	235 - 215	Top Girt	3/4	166	-1.454	6.104	23.8	Pass
T5	215 - 195	Top Girt	3/4	220	-0.801	6.104	13.1	Pass
T6	195 - 175	Top Girt	3/4	275	-0.985	6.104	16.1	Pass
T7	175 - 155	Top Girt	3/4	329	-0.953	6.104	15.6	Pass
T8	155 - 135	Top Girt	3/4	384	-0.977	6.104	16.0	Pass
T9	135 - 115	Top Girt	3/4	436	-1.072	6.104	17.6	Pass
T10	115 - 95	Top Girt	3/4	491	-1.134	6.104	18.6	Pass
T11	95 - 75	Top Girt	3/4	545	-1.157	6.104	19.0	Pass
T12	75 - 55	Top Girt	3/4	599	-1.231	6.104	20.2	Pass
T13	55 - 35	Top Girt	3/4	653	-1.285	6.104	21.1	Pass
T14	35 - 15	Top Girt	3/4	708	-1.297	6.104	21.2	Pass
T15	15 - 5	Top Girt	3/4	760	-1.261	6.104	20.7	Pass
T16	5 - 0	Top Girt	3/4	790	7.956	19.880	40.0	Pass
T1	295 - 275	Bottom Girt	3/4	8	-1.698	6.104	27.8	Pass
T2	275 - 255	Bottom Girt	3/4	62	-3.309	6.104	54.2	Pass
T3	255 - 235	Bottom Girt	3/4	115	-1.594	6.104	26.1	Pass
T4	235 - 215	Bottom Girt	3/4	169	-0.758	6.104	12.4	Pass
T5	215 - 195	Bottom Girt	3/4	224	-0.911	6.104	14.9	Pass
T6	195 - 175	Bottom Girt	3/4	277	-0.946	6.104	15.5	Pass
T7	175 - 155	Bottom Girt	3/4	332	-0.953	6.104	15.6	Pass
T8	155 - 135	Bottom Girt	3/4	387	-0.977	6.104	16.0	Pass
T9	135 - 115	Bottom Girt	3/4	439	-1.072	6.104	17.6	Pass
T10	115 - 95	Bottom Girt	3/4	494	-1.134	6.104	18.6	Pass
T11	95 - 75	Bottom Girt	3/4	548	-1.157	6.104	19.0	Pass
T12	75 - 55	Bottom Girt	3/4	602	-1.231	6.104	20.2	Pass
T13	55 - 35	Bottom Girt	3/4	656	-1.285	6.104	21.1	Pass
T14	35 - 15	Bottom Girt	3/4	711	-1.297	6.104	21.2	Pass
T15	15 - 5	Bottom Girt	3/4	763	6.968	19.880	35.1	Pass
T16	5 - 0	Bottom Girt	3/4	793	2.399	19.880	12.1	Pass
T1	295 - 275	Guy A@285	1/2 EModulus	850	14.624	16.140	90.6	Pass
T3	255 - 235	Guy A@245	7/16 EModulus	835	11.740	12.480	94.1	Pass
T6	195 - 175	Guy A@185	3/8 EModulus	822	8.652	9.240	93.6	Pass
T9	135 - 115	Guy A@125	3/8 EModulus	816	8.402	9.240	90.9	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T12	75 - 55	Guy A@65	3/8 EModulus	810	6.534	9.240	70.7	Pass
T1	295 - 275	Guy B@285	1/2 EModulus	846	14.465	16.140	89.6	Pass
T3	255 - 235	Guy B@245	7/16 EModulus	831	11.623	12.480	93.1	Pass
T6	195 - 175	Guy B@185	3/8 EModulus	821	8.631	9.240	93.4	Pass
T9	135 - 115	Guy B@125	3/8 EModulus	815	8.410	9.240	91.0	Pass
T12	75 - 55	Guy B@65	3/8 EModulus	809	6.537	9.240	70.8	Pass
T1	295 - 275	Guy C@285	1/2 EModulus	838	14.609	16.140	90.5	Pass
T3	255 - 235	Guy C@245	7/16 EModulus	823	11.748	12.480	94.1	Pass
T6	195 - 175	Guy C@185	3/8 EModulus	817	8.659	9.240	93.7	Pass
T9	135 - 115	Guy C@125	3/8 EModulus	811	8.402	9.240	90.9	Pass
T12	75 - 55	Guy C@65	3/8 EModulus	805	6.523	9.240	70.6	Pass
T1	295 - 275	Top Guy Pull-Off@285	4x5/8	843	-6.441	24.488	26.3	Pass
T3	255 - 235	Top Guy Pull-Off@245	4x5/8	828	-5.930	24.488	24.2	Pass
T6	195 - 175	Top Guy Pull-Off@185	4x5/8	820	3.339	112.500	3.0	Pass
T9	135 - 115	Top Guy Pull-Off@125	4x5/8	814	3.785	112.500	3.4	Pass
T12	75 - 55	Top Guy Pull-Off@65	4x5/8	808	3.324	112.500	3.0	Pass
T1	295 - 275	Torque Arm Top@285	C12x20.7	841	-4.442	237.937	37.9	Pass
T3	255 - 235	Torque Arm Top@245	C12x20.7	826	-3.978	237.937	29.0	Pass

Summary		
Leg (T14)	89.1	Pass
Diagonal (T4)	91.0	Pass
Horizontal (T1)	44.7	Pass
Top Girt (T3)	55.3	Pass
Bottom Girt (T2)	54.2	Pass
Guy A (T3)	94.1	Pass
Guy B (T6)	93.4	Pass
Guy C (T3)	94.1	Pass
Top Guy Pull-Off (T1)	26.3	Pass
Torque Arm Top (T1)	37.9	Pass
Bolt Checks	25.9	Pass
RATING =	**94.1**	**Pass**



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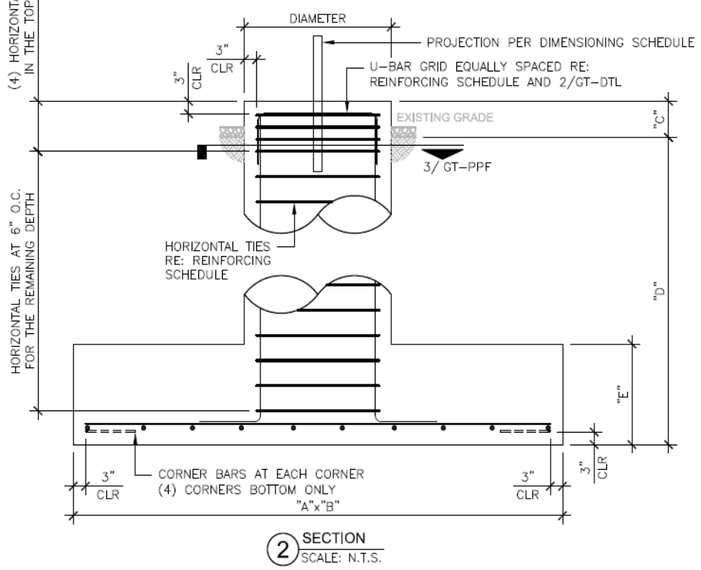

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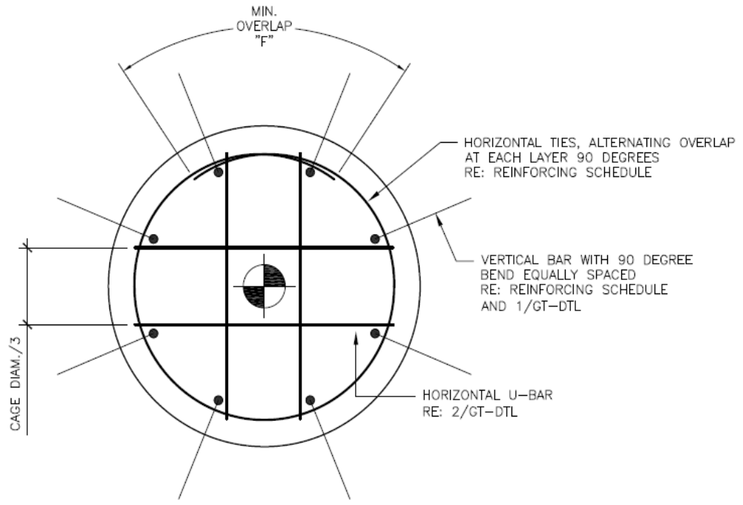


3 SECTION
SCALE: N.T.S.

NOTES:

1. REINFORCEMENT STEEL SHALL CONFORM TO THE REQUIREMENT OF ASTM A-615 (GRADE 60) EXCEPT THAT TIES MAY BE ASTM-615 (GRADE 40) WITH MINIMUM CLEAR COVER.
2. REINFORCEMENT STEEL SHALL BE DETAILED, FABRICATED, BENT, AND PLACED IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE AND THE ACI 315 (LATEST EDITION).
3. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE GEOTECH REPORT FOR THIS PROJECT AND FOLLOW THE RECOMMENDATIONS IN THAT REPORT WHEN CONSTRUCTING THE FOUNDATION.
   GEOTECHNICAL PROPERTIES BY: ENVIROMENTAL CORPORATION OF AMERICA
   PROJECT NUMBER: 25-000117
   DATE: APRIL 11, 2025
4. THIS FOUNDATION HAS BEEN DESIGNED, IN ACCORDANCE WITH THE TIA 222-H STANDARD, SPECIFICALLY FOR THE TOWER AND SOIL CONDITION REFERENCED ABOVE. IF ANYTHING DIFFERS THIS DESIGN SHALL BE CONSIDERED INVALID AND MUST BE REDESIGNED PRIOR TO CONSTRUCTION.
5. CONCRETE VOLUME IN CUBIC YARDS: 2.55
6. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
7. CONCRETE MIXTURES SHALL MEET DURABILITY REQUIREMENTS OF CHAPTER 19 OF THE ACI 318-14.
8. ALL CONCRETE TESTING SHALL BE IN ACCORDANCE WITH ACI 318-14. A MINIMUM OF (2) 6"X12" OR (3) 4"X8" CONCRETE CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6"X12" OR (6) 4"X8" CYLINDERS PER BATCH REQUIRED.
9. SLUMP TEST SHALL BE MADE IN ACCORDANCE WITH ASTM C143. THE ALLOWABLE CONCRETE SLUMP SHALL BE 4 INCHES (±1") UNLESS ADMIXTURES ARE USED. ADMIXTURE SHALL BE IN ACCORDANCE WITH ASTM C494 STANDARD TYPES A, B, C, D OR E. THE ENGINEER SHALL PRE-APPROVE SUPER PLASTICIZER USE. DO NOT USE CHLORIDE-CONTAINING ADMIXTURES. AIR ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C260.
10. BACKFILL MATERIAL SHALL BE COMPACTED TO A MINIMUM UNIT WEIGHT SPECIFIED IN GEOTECH REPORT. THE SOIL SHALL BE INSTALLED IN 6" TO 8" LIFTS AND COMPACTED THOROUGHLY TO ACHIEVE APPROPRIATE UNIT WEIGHT UNLESS GEOTECH SPECIFIES OTHER COMPACTION REQUIREMENTS.
11. VERIFY ALL DIMENSIONS AGAINST MANUFACTURER'S DRAWINGS.

STIPULATION FOR REUSE:

1. THIS DRAWING WAS SPECIFICALLY DESIGNED FOR USE BY THE CUSTOMER ON THIS DRAWING AT THE SPECIFIED LOCATION. USE OF THIS DRAWING FO REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF A PROPERLY LICENSED ENGINEER.

DIMENSIONING SCHEDULE	
A	6' 0"
B	6' 0"
C	0' 6"
D	4' 0"
E	1' 6"
MIN. OVERLAP "F"	2' 3"
DIAMETER	2' 6"
CENTER PIN PROJ.	REF TO MFG

REINFORCING SCHEDULE	SIZE	TOTAL QTY
VERTICAL BARS	# 6	9
HORIZONTAL TIES	# 4	10
U-BAR HORIZONTAL (PEDESTAL)	# 4	4
BOTTOM HORIZONTAL BARS	# 6	14
CORNER BARS	# 4	4

BASE REACTIONS: (FACTORED LOADS)		
VERTICAL	208	KIPS
HORIZONTAL	1	KIPS

B+T GRP
1717 S BOULDER AVE #300, TULSA, OK 74119
(918) 587-4630

APC Towers
8601 SIX FORKS RD., STE. 250, RALEIGH, NC

ISSUED FOR:

REV	DATE	DESCRIPTION
0	04/30/25	ISSUED FOR CONSTRUCTION

COA: 4011

EXPIRES: 12/31/2025

STATE OF KENTUCKY
JEFFREY M. LEANOWSKI
25311
LICENSED PROFESSIONAL ENGINEER
4/30/25

PROJECT INFORMATION:

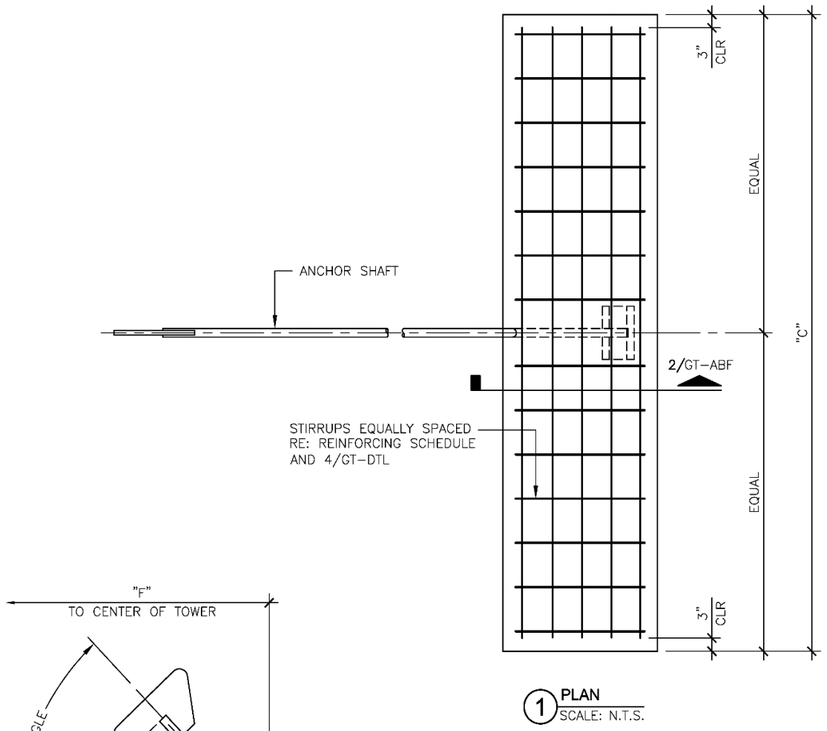
PROJECT NO: 25-002563
SITE NAME: HEARTLAND ACADEMY
SITE NO: KY-1823
CLIENT NAME: APC TOWERS IV, LLC

DRAWN BY: CLINT COODY
CHECKED BY: JL

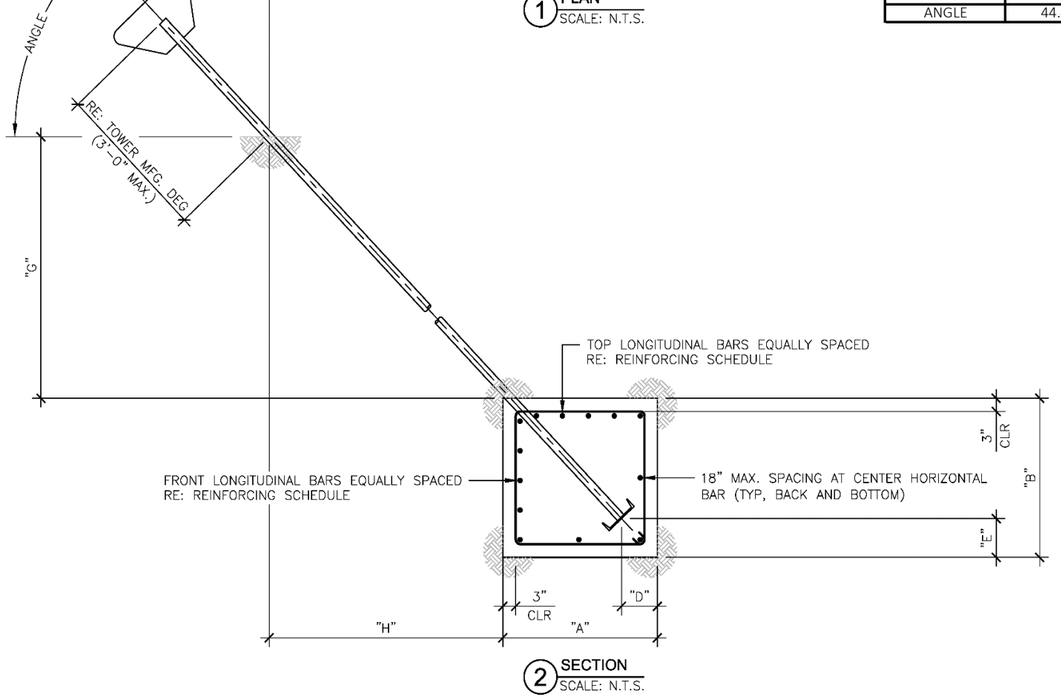
SHEET TITLE:

PIER AND PAD FOUNDATION

SHEET NUMBER:	REVISION:
GT-PPF	0



1 PLAN
SCALE: N.T.S.



2 SECTION
SCALE: N.T.S.

NOTES:

1. REINFORCEMENT STEEL SHALL CONFORM TO THE REQUIREMENT OF ASTM A-615 (GRADE 60) EXCEPT THAT TIES MAY BE ASTM-615 (GRADE 40) WITH MINIMUM CLEAR COVER.
2. REINFORCEMENT STEEL SHALL BE DETAILED, FABRICATED, BENT, AND PLACED IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE AND THE ACI 315 (LATEST EDITION).
3. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE GEOTECH REPORT FOR THIS PROJECT AND FOLLOW THE RECOMMENDATIONS IN THAT REPORT WHEN CONSTRUCTING THE FOUNDATION.
   GEOTECHNICAL PROPERTIES BY: ENVIROMENTAL CORPORATION OF AMERICA
   PROJECT NUMBER: 25-000117
   DATE: APRIL 11, 2025
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5. CONCRETE VOLUME PER ANCHOR IN CUBIC YARDS: 0.59
6. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
7. CONCRETE MIXTURES SHALL MEET DURABILITY REQUIREMENTS OF CHAPTER 19 OF THE ACI 318-14.
8. ALL CONCRETE TESTING SHALL BE IN ACCORDANCE WITH ACI 318-14. A MINIMUM OF (2) 6"X12" OR (3) 4"X8" CONCRETE CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6"X12" OR (6) 4"X8" CYLINDERS PER BATCH REQUIRED.
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11. VERIFY ALL DIMENSIONS AGAINST MANUFACTURER'S DRAWINGS.
12. ANCHOR SHAFT: BY TOWER MANUFACTURER

STIPULATION FOR REUSE:

1. THIS DRAWING WAS SPECIFICALLY DESIGNED FOR USE BY THE CUSTOMER ON THIS DRAWING AT THE SPECIFIED LOCATION. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF A PROPERLY LICENSED ENGINEER.

DIMENSIONING SCHEDULE	
A	2' 0"
B	2' 0"
C	4' 0"
D	0' 6"
E	0' 6"
F	210' 0"
G	4' 0"
H	4' 1-5/16"
ANGLE	44.4°

REINFORCING SCHEDULE	SIZE	TOTAL QTY 3 ANCHORS
STIRRUPS	# 4	15
LONGITUDINAL BARS TOP	# 6	9
LONGITUDINAL BARS FRONT	# 6	9
LONGITUDINAL BARS BACK	# 6	3
LONGITUDINAL BARS BOTTOM	# 6	6

BASE REACTIONS: (FACTORED LOADS)		
VERTICAL	51	KIPS
HORIZONTAL	52	KIPS

B+T GRP
1717 S BOULDER AVE #300, TULSA, OK 74119
(918) 587-4630

APC Towers
8601 SIX FORKS RD., STE. 250, RALEIGH, NC

ISSUED FOR:

REV	DATE	DESCRIPTION
0	04/30/25	ISSUED FOR CONSTRUCTION

COA: 4011

EXPIRES: 12/31/2025

STATE OF KENTUCKY
BRADLEY MILANOWSKI
25311
LICENSED PROFESSIONAL ENGINEER
4/30/25

PROJECT INFORMATION:

PROJECT NO: 25-002563
SITE NAME: HEARTLAND ACADEMY
SITE NO: KY-1823
CLIENT NAME: APC TOWERS IV, LLC

DRAWN BY: CLINT COODY
CHECKED BY: JL

SHEET TITLE:

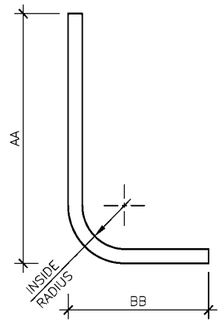
ANCHOR BLOCK FOUNDATION

SHEET NUMBER: GT-ABF

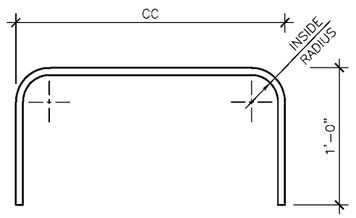
REVISION: 0

DIMENSIONING SCHEDULE	
AA*	3' 10-1/2"
BB	1' 0"
CC*	1' 10-5/8"
DD	3' 0"
EE*	1' 6"
FF*	1' 6"
GG	0' 3"

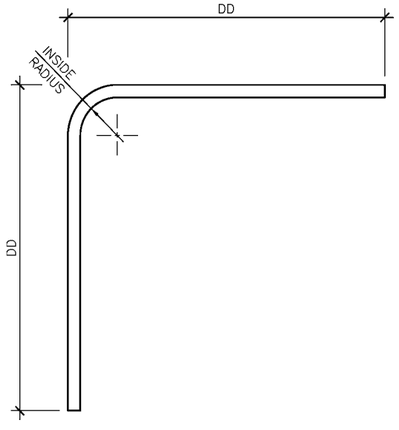
*NOTE: CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO FABRICATION



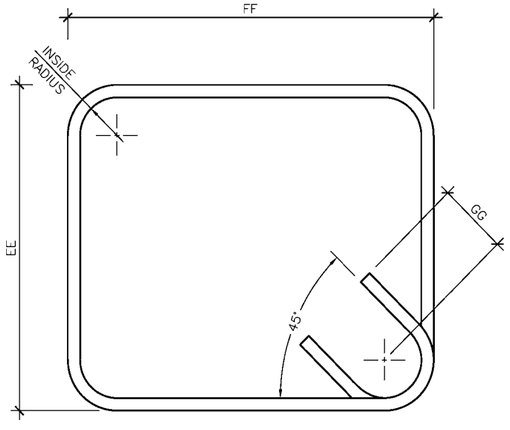
1 L-BAR
SCALE: N.T.S.



2 HORIZONTAL U-BAR
SCALE: N.T.S.



3 CORNER BAR
SCALE: N.T.S.



4 STIRRUP
SCALE: N.T.S.

B+T GRP
1717 S BOULDER AVE #300, TULSA, OK 74119
(918) 587-4630

APC Towers
8601 SIX FORKS RD., STE. 250, RALEIGH, NC

ISSUED FOR:

REV	DATE	DESCRIPTION
0	04/30/25	ISSUED FOR CONSTRUCTION

COA: 4011

EXPIRES: 12/31/2025

STATE OF KENTUCKY
BRADLEY J. MILKOWSKI
25311
LICENSED PROFESSIONAL ENGINEER
4/30/25

PROJECT INFORMATION:

PROJECT NO: 25-002563
SITE NAME: HEARTLAND ACADEMY
SITE NO: KY-1823
CLIENT NAME: APC TOWERS IV, LLC

DRAWN BY: CLINT COODY
CHECKED BY: JL

SHEET TITLE:

DIMENSIONING DETAIL

SHEET NUMBER: DTL

REVISION: 0

Pier and Pad Foundation

Project #:	25-002563
Site Name:	Heartland Academy
Site #:	KY-1823

TIA-222 Revision:	H
Tower Type:	Guyed

Top & Bot. Pad Rein. Different?:	☐
Block Foundation?:	☐
Rectangular Pad?:	☐

Superstructure Analysis Reactions

Compression, P_{comp}:	208	kips
Base Shear, Vu_comp:	1	kips
Moment, M_u:	0	ft-kips
Tower Height, **H**:	295	ft
BP Dist. Above Fdn, bp_{dist}:	0	in
Bolt Circle / Bearing Plate Width, **BC**:	12	in

Pier Properties

Pier Shape:	Circular	
Pier Diameter, **dpier**:	2.5	ft
Ext. Above Grade, **E**:	0.5	ft
Pier Rebar Size, **Sc**:	6	
Pier Rebar Quantity, **mc**:	9	
Pier Tie/Spiral Size, **St**:	4	
Pier Tie/Spiral Quantity, **mt**:	14	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier}:	3	in

Pad Properties

Depth, **D**:	4	ft
Pad Width, W_1:	6	ft
Pad Thickness, **T**:	1.5	ft
Pad Rebar Size (Bottom dir. 2), Sp_2:	6	
Pad Rebar Quantity (Bottom dir. 2), mp_2:	7	
Pad Clear Cover, cc_{pad}:	3	in

Material Properties

Rebar Grade, **Fy**:	60	ksi
Concrete Compressive Strength, **F'c**:	4	ksi
Dry Concrete Density, δ**c**:	150	pcf

Soil Properties

Total Soil Unit Weight, γ:	110	pcf
Ultimate Net Bearing, Qnet:	12.000	ksf
Cohesion, **Cu**:	3.500	ksf
Friction Angle, φ:	0	degrees
SPT Blow Count, N_{blows}:		
Base Friction, μ:		
Neglected Depth, **N**:	1.67	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, **gw**:	N/A	ft

<--Toggle between Gross and Net

Foundation Analysis Checks

	Capacity	Demand	Rating	Check
Lateral (Sliding) (kips)	124.37	1.00	**0.8%**	**Pass**
Bearing Pressure (ksf)	7.46	6.47	**86.7%**	**Pass**
*Overturning (kip*ft)*	136.53	4.50	**3.3%**	**Pass**
*Pier Flexure (Comp.) (kip*ft)*	365.03	3.00	**0.8%**	**Pass**
Pier Compression (kip)	3124.31	210.65	**6.7%**	**Pass**
*Pad Flexure (kip*ft)*	187.08	54.27	**29.0%**	**Pass**
Pad Shear - 1-way (kips)	94.77	21.09	**22.2%**	**Pass**
Pad Shear - 2-way (Comp) (ksi)	0.190	0.051	**26.8%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	374.15	1.80	**0.5%**	**Pass**

Structural Rating:	**29.0%**
Soil Rating:	**86.7%**

Guyed Anchor Block Foundation

Checks capacity of anchor blocks for a guyed tower.

Project #:	25-002563
Site Name:	Heartland Academy
Site #:	KY-1823
Location:	

TIA-222 Revision: H

Design Reactions		
Shear, **S**:	52.00	kips
Uplift, **Ua**:	51.00	kips
Resultant Force, **Rf**:	72.84	kips
Tower Height, **H**:	295.00	ft
Guy Anchor Radius, **R**:	210.00	ft
Resultant Angle to Horizontal, **θ**:	44.4	deg

Guy Anchor Properties		
Depth to Bottom of Deadman, **Da**:	6	ft
Anchor Width, **Wa**:	2	ft
Anchor Thickness, **Ta**:	2	ft
Anchor Length, **La**:	4	ft
Concrete Volume, **Vc**:	0.6	yd^3
Toe Width, **toe**:		ft
Guyed Anchor Top Rebar Size, **Sat**:	6	
No. of Bars in Top of Block:	3	
Guyed Anchor Front Rebar Size, **Saf**:	6	
No. of Bars in Front of Block:	3	
Stirrup Size:	4	

Material Properties		
Rebar Grade, **Fy**:	60	ksi
Concrete Strength, **F'c**:	4	ksi
Wt. Avg.Concrete Density, **δx**:	0.150	kcf
Clear Cover, **cc**:	3	in

Version 5.0.1

Design Checks				
	Capacity	**Demand**	**Rating**	**Check**
Lateral Capacity (kips):	64.85	52.00	**80.2%**	**Pass**
Uplift Capacity (kips):	61.46	51.00	**83.0%**	**Pass**
*Lateral Flexural Capacity (ft*kips):*	116.66	26.00	**22.3%**	**Pass**
*Uplift Flexural Capacity (ft*kips):*	116.66	25.50	**21.9%**	**Pass**

Anchor Shaft Rating:	**N/A**
Structural Rating:	**22.3%**
Soil Rating:	**83.0%**

Neglect Depth, **Neg**:	1.666666667	ft
Groundwater Level, **gw**:	N/A	ft

Soil Properties:				**No. of Soil Layers:** 1		
Layer	**φ, deg**	**cu, ksf**	**δ, pcf**	**d, ft**	**Ultimate fs (ksf)**	**N (blows/ft)**
1	0	3.500	120	6.00		

*key: φ = *Internal Angle of Friction*
cu = Cohesion / Undrained Shear Strength
δ = *Buoyant Soil Unit Weight*
d = Depth to Bottom of Layer
Ultimate fs = Geotechnical Report-provided skin friction / adhesion
N = SPT Blow Count

EXHIBIT D

COMPETING UTILITIES, CORPORATIONS, OR PERSONS LIST

Navigation | Reports | PSC Home

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
				Activ

Search

	Utility ID	Utility Name	Utility Type	Class	City	State
View	4002000	1GLOBAL Operations (US) Inc.	Cellular	D	Durham	NC
View	4111300	2600Hz, Inc. dba ZSWITCH	Cellular	D	Henderson	NV
View	4115150	ACN Communication Services, LLC dba Flash Wireless dba Flash Mobile	Cellular	D	Charlotte	NC
View	4115750	Affiniti Ventures, Inc.	Cellular	C	New York	NY
View	4113600	AFNET, LLC	Cellular	D	Alpharetta	GA
View	4108300	Air Voice Wireless, LLC d/b/a AirTalk Wireless	Cellular	A	Houston	TX
View	4115200	Airespring, Inc.	Cellular	D	Clearwater	FL
View	4111900	ALLNETAIR, INC.	Cellular	D	West Palm Beach	FL
View	44451184	Alltel Corporation d/b/a Verizon Wireless	Cellular	A	Lisle	IL
View	4110850	AltaWorx, LLC	Cellular	D	Fairhope	AL
View	4107800	American Broadband and	Cellular	D	Toledo	OH

		Telecommunications Company				
View	4108650	AmeriMex Communications Corp.	Cellular	D	Safety Harbor	FL
View	4105100	AmeriVision Communications, Inc. d/b/a Affinity 4	Cellular	D	Virginia Beach	VA
View	4114250	Approved Contact LLC	Cellular	D	Reno	NV
View	4115050	Aquarius Silver LLC	Cellular	C	Sheridan	WY
View	4105700	Assurance Wireless USA, L.P.	Cellular	D	Atlanta	GA
View	4113100	BARK TECHNOLOGIES, INC.	Cellular	D	Charlotte	NC
View	4108600	BCN Telecom, Inc.	Cellular	D	Morristown	NJ
View	4106000	Best Buy Health, Inc. d/b/a GreatCall d/b/a Jitterbug	Cellular	A	San Diego	CA
View	4111050	BlueBird Communications, LLC	Cellular	D	New York	NY
View	4107600	Boomerang Wireless, LLC	Cellular	A	Dallas	TX
View	4115500	CALL CENTERS INDIA INCORPORATED d/b/a Blueconnects	Cellular		Seattle	WA
View	4100700	Cellco Partnership dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
View	4106600	Cintex Wireless, LLC	Cellular	D	Houston	TX
View	4114550	Cliq Communications LLC d/b/a Cliq Mobile	Cellular	D	Coral Gables	FL
View	4111150	Comcast OTR1, LLC	Cellular	A	Phoeniexville	PA
View	4113550	Comlink Total Solutions Corp	Cellular	D	Fort Myers	FL
View	4101900	Consumer Cellular, Incorporated	Cellular	A	Portland	OR
View	4112700	Cox Wireless, LLC	Cellular	D	Atlanta	GA
View	4108850	Cricket Wireless, LLC	Cellular	A	San Antonio	TX
View	4111500	CSC Wireless, LLC d/b/a Altice Wireless	Cellular	A	Long Island City	NY
View	4114000	Daywalker Mobile Inc.	Cellular	D	Bartlesville	OK
View	4112000	DISH Wireless L.L.C.	Cellular	A	Englewood	CO

View	4111200	Dynalink Communications, Inc.	Cellular	C	Brooklyn	NY
View	4111800	Earthlink, LLC	Cellular	C	Atlanta	GA
View	4101000	East Kentucky Network, LLC dba Appalachian Wireless	Cellular	A	Ivel	KY
View	4002300	Easy Telephone Service Company dba Easy Wireless	Cellular	D	Ocala	FL
View	4109500	Enhanced Communications Group, LLC	Cellular	D	Bartlesville	OK
View	4113800	EVOLVE WIRELESS LLC	Cellular	D	Maumee	OH
View	4110450	Excellus Communications, LLC	Cellular	D	Harrisburg	SD
View	4112400	Excess Telecom Inc.	Cellular	D	Beverly Hills	CA
View	4104800	France Telecom Corporate Solutions L.L.C.	Cellular	D	Herndon	VA
View	4111750	Gabb Wireless, Inc.	Cellular	A	Lehi	UT
View	4109350	Global Connection Inc. of America	Cellular	D	Miami	FL
View	4102200	Globalstar USA, LLC	Cellular	C	Covington	LA
View	4112850	GO TECHNOLOGY MANAGEMENT, LLC	Cellular	D	Atlanta	GA
View	4109600	Google North America Inc.	Cellular	A	Mountain View	CA
View	33350363	Granite Telecommunications, LLC	Cellular	D	Quincy	MA
View	4114300	Group F Consulting, LLC	Cellular	D		
View	4114050	Helix Wireless Inc.	Cellular	D	Monmouth Junction	NJ
View	4111350	HELLO MOBILE TELECOM LLC	Cellular	D	Dania Beach	FL
View	4112950	Hoop Wireless, LLC	Cellular	D	Lakewood	NJ
View	4103100	i-Wireless, LLC	Cellular	D	Newport	KY
View	4112550	IDT Domestic Telecom, Inc.	Cellular	D	Newark	NJ
View	4109800	IM Telecom, LLC d/b/a Infiniti Mobile	Cellular	D	Plano	TX
View	4112650	Insight Mobile, Inc.	Cellular	D	Los Angeles	CA

View	4111950	J Rhodes Enterprises LLC	Cellular	D	Gulf Breeze	FL
View	22215360	KDDI America, Inc.	Cellular	D	Staten Island	NY
View	10872	Kentucky RSA #1 Partnership	Cellular	A	Basking Ridge	NJ
View	4112200	Lexvor Inc.	Cellular	D	Irvine	CA
View	4111250	Liberty Mobile Wireless, LLC	Cellular	B	Sunny Isles Beach	FL
View	4114900	Liberty Wireless, LLC	Cellular	D	Rockville	MD
View	4114750	Link Mobile, Inc.	Cellular	D	New York	NY
View	4111400	Locus Telecommunications, LLC	Cellular	B	Fort Lee	NJ
View	4114500	Lux Mobile USA, Inc	Cellular	D	Baton Rouge	LA
View	4107300	Lycamobile USA, Inc.	Cellular	D	Newark	NJ
View	4112500	Marconi Wireless Holdings, LLC	Cellular	B	Westlake Village	CA
View	4113850	MAXSIP TEL KENTUCKY LLC d/b/a Maxsip Telecom	Cellular	D	Woodmere	NY
View	4114800	Mediacom Wireless LLC	Cellular	D	Mediacom Park	NY
View	4108800	MetroPCS Michigan, LLC	Cellular	A	Bellevue	WA
View	4111700	Mint Mobile, LLC	Cellular	A	Costa Mesa	CA
View	4115100	Mobile 13, Inc	Cellular	D	South Jordan	UT
View	4114100	MVNO Connect LLC	Cellular	D	St. Petersburg	FL
View	4113350	NatWireless, LLC	Cellular	D	Houston	TX
View	4202400	New Cingular Wireless PCS, LLC	Cellular	A	San Antonio	TX
View	4110700	Norcell, LLC	Cellular	D	Clayton	WA
View	4113700	Nova Labs, Inc. dba Helium Mobile	Cellular	D	Las Vegas	NV
View	4110750	Onvoy Spectrum, LLC	Cellular	D	Chicago	IL
View	4114950	Panda Mobile LLC	Cellular	D	Sparks	NV
View	4109050	Patriot Mobile LLC	Cellular	A	Grapevine	TX
View	4115600	PHREELI COMPANY	Cellular	C	Lewes	DE
View	4110250	Plintron Technologies USA LLC	Cellular	D	Bellevue	WA
View	4115650	PLUG MOBILE LLC	Cellular	C	St. Louis	MO

View	33351182	PNG Telecommunications, Inc. dba PowerNet Global Communications	Cellular	D	Cincinnati	OH
View	4114850	POWER MOBILE LLC	Cellular	C	Rockville Centre	NY
View	4112800	Prepaid Wireless Group, LLC dba Prepaid Wireless Wholesale	Cellular	D	Rockville	MD
View	4115550	Prepaid Wireless Wholesale of Maryland, LLC	Cellular	C	Rockville	MD
View	4114350	PRESTO WIRELESS Corp.	Cellular	D	Fair Lawn	NJ
View	4115000	Prosper Wireless LLC	Cellular	D	Sherman Oaks	CA
View	4107700	Puretalk Holdings, Inc.	Cellular	B	Covington	GA
View	4106700	Q Link Wireless, LLC	Cellular	A	Dania	FL
View	4115900	RABONA CORPORATION	Cellular	C	New York	NY
View	4108700	Ready Wireless, LLC	Cellular	D	Cedar Rapids	IA
View	4113200	Red Pocket Inc.	Cellular	D	Thousand Oaks	CA
View	4114200	Roccstar Wireless LLC	Cellular	D	Bedford	TX
View	4114700	Rocket Mobile LLC	Cellular	C	West Palm Beach	FL
View	4115400	RSCU Mobile, LLC	Cellular	D	Alpine	UT
View	4106200	Rural Cellular Corporation	Cellular	A	Basking Ridge	NJ
View	4108550	Sage Telecom Communications, LLC dba TruConnect	Cellular	A	Los Angeles	CA
View	4113050	Sarver Corporation	Cellular	D	Rancho Cucamonga	CA
View	4109150	SelecTel, Inc. d/b/a SelecTel Wireless	Cellular	A	Fremont	NE
View	4110150	Spectrotel of the South LLC dba Touch Base Communications	Cellular	D	Neptune	NJ
View	4111450	Spectrum Mobile, LLC	Cellular	A	St. Louis	MO
View	4114400	Splash Cellular Inc.	Cellular	D	Bountiful	UT

View	4111600	STX Group LLC dba Twigby	Cellular	D	Murfreesboro	TN
View	4115450	Surf Telecom, LLC	Cellular	C	Key Bixcayne	FL
View	4113450	Syntegra North America, LLC	Cellular	D	Denton	TX
View	4202200	T-Mobile Central, LLC dba T-Mobile	Cellular	A	Bellevue	WA
View	4002500	TAG Mobility, LLC d/b/a TAG Mobile	Cellular	D	Plano	TX
View	4115850	TELCO Communications LLC dba TELCO CELLULAR	Cellular	C	Oceanside	NY
View	4107200	Telefonica Global Solutions USA, Inc.	Cellular	D	Miami	FL
View	4112100	Tello LLC	Cellular	A	Atlanta	GA
View	4108900	Telrite Corporation	Cellular	D	Covington	GA
View	4108450	Tempo Telecom, LLC	Cellular	D	Dallas	TX
View	4113900	TERRACOM Inc. d/b/a Maxsip Tel	Cellular	D	Chattanooga	TN
View	4113950	THE LIGHT PHONE INC.	Cellular	D	Brooklyn	NY
View	4113250	Thrive Health Tech, Inc.	Cellular	D	Nashville	TN
View	4110400	Torch Wireless Corp.	Cellular	C	Bartlett	TN
View	4103300	Touchtone Communications, Inc.	Cellular	D	Cedar Knolls	NJ
View	4104200	TracFone Wireless, Inc.	Cellular	D	Miami	FL
View	4115350	TREK CELLULAR, LLC	Cellular	D	Stevensville	MD
View	4112250	TROOMI WIRELESS, Inc.	Cellular	B	Orem	UT
View	4114600	TruConnect Communications, Inc.	Cellular	D	Los Angeles	CA
View	4112600	Tube Incorporated dba Reach Mobile	Cellular	D	Atlanta	GA
View	4112750	Unity Wireless, Inc.	Cellular	D	Pembroke Pines	FL
View	4115800	USA Mobile LLC	Cellular	C	Laguna Beach	CA
View	4110300	UVNV, Inc. d/b/a Mint Mobile	Cellular	C	Costa Mesa	CA

View	10630	Verizon Americas LLC dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
View	4113300	Via Wireless, LLC	Cellular	D	Houston	TX
View	4110800	Visible Service LLC	Cellular	D	Basking Ridge	NJ
View	4115700	Viva-US Communications, Inc.	Cellular	C	San Diego	CA
View	4113750	VOLT MOBILE Inc	Cellular	D	Delray Beach	FL
View	4114450	WeIncentivize LLC d/b/a ChosenWireless	Cellular	D	San Diego	CA
View	4113000	Whoop Connect Inc.	Cellular	D	Melbourne	FL
View	4115250	WHOOP MOBILE INC.	Cellular	C	Melbourne	FL
View	4106500	WiMacTel, Inc.	Cellular	D	Calgary, AB	CA
View	4110950	Wing Tel Inc.	Cellular	C	New York	NY
View	4113400	Wrazzle, Inc.	Cellular	D	New Milford	CT
View	4113650	XCHANGE TELECOM LLC	Cellular	D	Brooklyn	NY
View	4112150	Zefcom, LLC	Cellular	C	Wichita Falls	TX

EXHIBIT E

FEDERAL AVIATION ADMINISTRATION DOCUMENTATION

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

Aeronautical Study No.
2025-ASO-448-OE

Issued Date: 03/12/2025

Jonathan Greene
APC Towers
8601 Six Forks Rd
Suite 250
Raleigh, NC 27615

**** 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-1823 EV Heartland Academy
Location:	Sebree, KY
Latitude:	37-28-25.38N NAD 83
Longitude:	87-37-04.30W
Heights:	425 feet site elevation (SE)
	300 feet above ground level (AGL)
	725 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:

Emissions from this site must be in compliance with the parameters set by collaboration between the FAA and telecommunications companies and reflected in the FAA 5G C band compatibility evaluation process (such as power, frequencies, and tilt angle). Operational use of this frequency band is not objectionable provided the Wireless Providers (WP) obtain and adhere to the parameters established by the FAA 5G C band compatibility evaluation process. **Failure to comply with this condition will void this determination of no hazard.**

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M Change 1, Obstruction Marking and Lighting, a med-dual system-Chapters 4,8(M-Dual),&15.

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)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

See attachment for additional condition(s) or information.
This determination expires on 09/12/2026 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, 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 Joe Burkhardt, at (404) 305-5958, or Joseph.CTR.Burkhardt@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-ASO-448-OE.

Signature Control No: 643582274-650155165 (DNE)
Julie A. Morgan
Manager, Obstruction Evaluation Group

Attachment(s)
Additional Information
Frequency Data
Map(s)

cc: FCC

Part 77 authorizes the FAA to evaluate a structure or object's potential electromagnetic effects on air navigation, communication facilities, and other surveillance systems. It also authorizes study of impact on arrival, departure, and en route procedures for aircraft operating under visual or instrument flight rules, as well as the impact on airport traffic capacity at existing public use airports. Broadcast in the 3.7 to 3.98 GHz frequency (5G C band) currently causes errors in certain aircraft radio altimeters and the FAA has determined they cannot be relied upon to perform their intended function when experiencing interference from wireless broadband operations in the 5G C band. The FAA has adopted Airworthiness Directives for all transport and commuter category aircraft equipped with radio altimeters that prohibit certain operations when in the presence of 5G C band.

This determination of no hazard is based upon those mitigations implemented by the FAA and operators of transport and commuter category aircraft, and helicopters operating in the vicinity of your proposed location. It is also based on telecommunication industry and FAA collaboration on acceptable power levels and other parameters as reflected in the FAA 5G C band evaluation process.

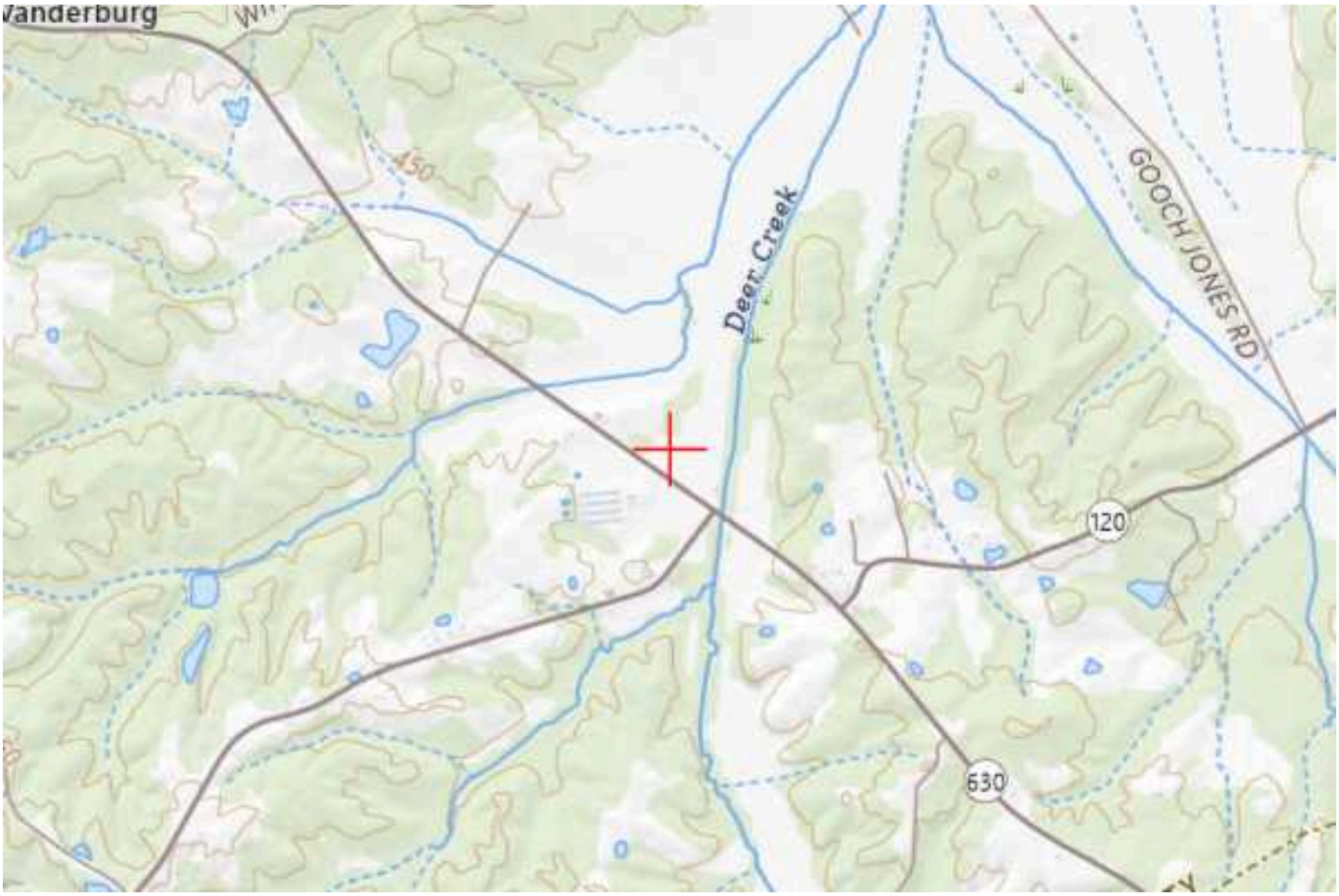
The FAA 5G C band compatibility evaluation is a data analytics system used by FAA to evaluate operational hazards related to aircraft design. The FAA 5G C band compatibility evaluation process refers to the process in which the telecommunication companies and the FAA have set parameters, such as power output, locations, frequencies, and tilt angles for antenna that mitigate the hazard to aviation. As the telecommunication companies and FAA refine the tools and methodology, the allowable frequencies and power levels may change in the FAA 5G C band compatibility evaluation process. Therefore, your proposal will not have a substantial adverse effect on the safe and efficient use of the navigable airspace by aircraft provided the equipment and emissions are in compliance with the parameters established through the FAA 5G C band compatibility evaluation process.

Any future changes that are not consistent with the parameters listed in the FAA 5G C band compatibility evaluation process will void this determination of no hazard.

Frequency Data for ASN 2025-ASO-448-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	2000	W
614	698	MHz	1000	W
698	806	MHz	1000	W
806	824	MHz	500	W
806	901	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
3700	3980	MHz	3280	W
3700	3980	MHz	1640	W

TOPO Map for ASN 2025-ASO-448-OE



Sectional Map for ASN 2025-ASO-448-OE

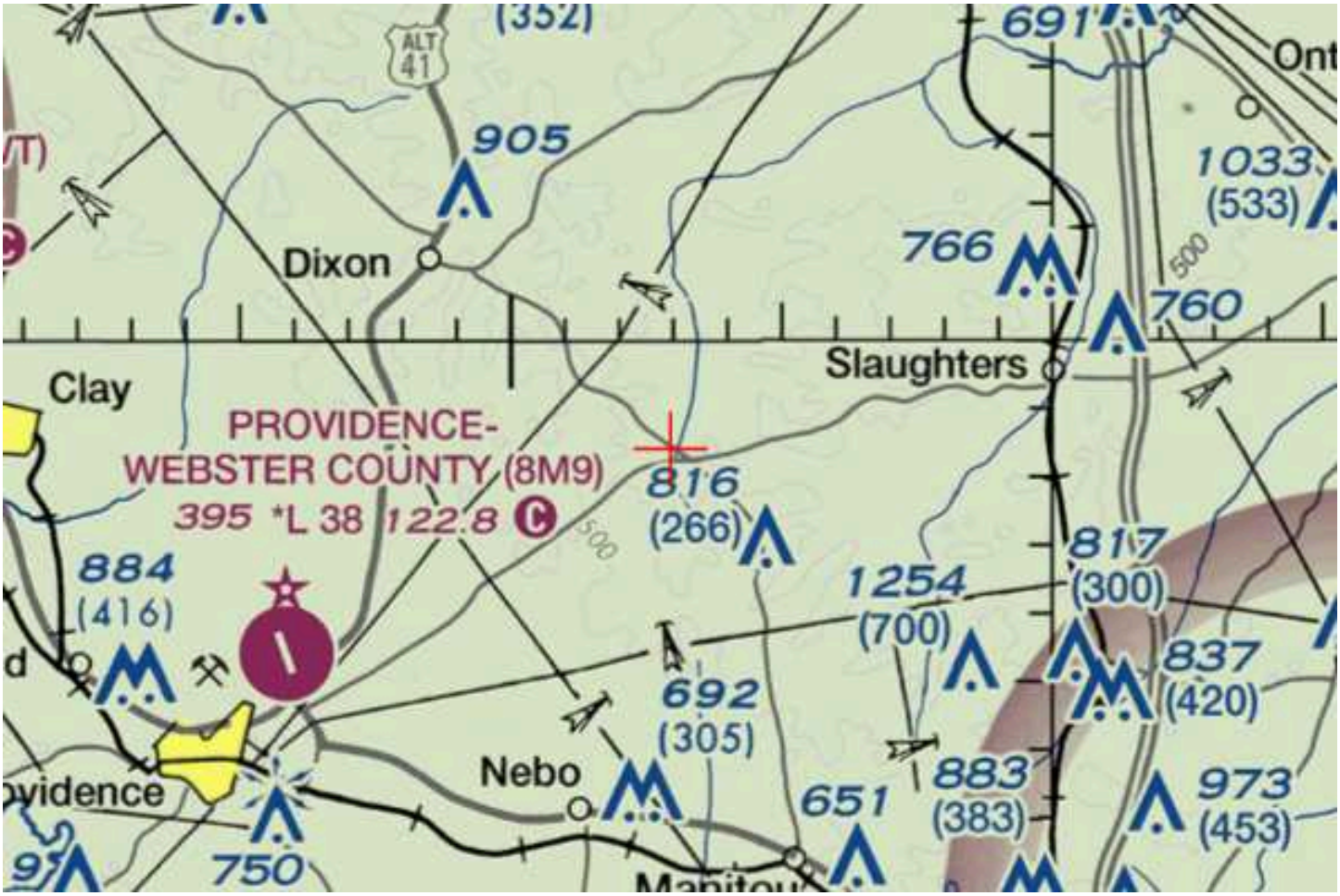


EXHIBIT F

KENTUCKY AIRPORT ZONING COMMISSION

KENTUCKY AIRPORT ZONING COMMISSION

ANDY BESHEAR
Governor

Department of Aviation, 90 Airport Road
Frankfort, KY 40601
www.transportation.ky.gov
502-564-0151

JIM GRAY
Secretary

APPROVAL OF APPLICATION

Monday, April 7, 2025

Maddie Macchi
8601 Six Forks Road, Suite 250
Raleigh, NC 27615

AS-2025-014-2I0	**Madisonville Regional Airport**
APPLICANTS NAME:	Maddie Macchi
NEAREST CITY:	Sebree, KY
LATITUDE/LONGITUDE:	37°28'25.38" N, 87°37'4.3" W
HEIGHT (In Feet):	300’ AGL /725’ AMSL
CONSTRUCTION PROPOSED:	Telecommunications Tower

NOTES: The tower location is approx 6 nm NW of 2I0, exceeds 200 ft AGL, and penetrates no protected air surfaces.

FAA DETERMINATION: 2025-ASO-448-OE. No Hazard to Air Navigation. Marked & lighted IAW FAA AC 70/7460-1 M C1; med-dual system-Chapters 4,8(M-Dual) &15. Emissions must comply with FAA 5G C band compatibility evaluation process.

This letter is to notify you that the Kentucky Airport Zoning Commission approved your permit application for the construction of Structures at the Location, Coordinates, and Height as indicated above. Construction must comply with requirements, if any, listed in the FAA Determination.

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.

An email of this letter was also sent to your representative, Maddie Macchi, at mmacchi@apctowers.com. If you have any questions, please contact us.

Respectfully,

Anthony Adams

Airport Zoning Administrator
Department of Aviation
502-564-0151 office
AirportZoning@ky.gov

TEAM KENTUCKY
TRANSPORTATION CABINET

EXHIBIT G

GEOTECHNICAL REPORT

ENVIRONMENTAL CORPORATION OF AMERICA

ENVIRONMENTAL | GEOTECHNICAL | WETLANDS | ECOLOGY | CULTURAL RESOURCES

Geotechnical Investigation

**APC Towers, LLC Site –
EV Heartland Academy (KY-1823)**

**State Route 630
Slaughters, Webster County, Kentucky**

ECA Project No. 25-000117

SUBMITTED TO:

APC Towers IV, LLC
8601 Six Forks Rd., Suite 250
Raleigh, NC 27615

PREPARED BY:

Environmental Corporation of America
1375 Union Hill Industrial Court, Suite A
Alpharetta, GA 30004

ENVIRONMENTAL CORPORATION OF AMERICA

ENVIRONMENTAL | GEOTECHNICAL | WETLANDS | ECOLOGY | CULTURAL RESOURCES

April 11, 2025

APC Towers IV, LLC
8601 Six Forks Rd., Suite 250
Raleigh, NC 27615

Attention: Mr. Jonathan Greene

Subject: **Geotechnical Investigation Report**
APC Towers, LLC Site - EV Heartland Academy (KY-1823)
State Route 630
Slaughters, Webster County, Kentucky
ECA Project No. 25-000117

Dear Mr. Greene:

Environmental Corporation of America (ECA) is pleased to submit this report of our geotechnical investigation for the proposed project. Our services were provided as authorized by APC Towers IV, LLC, using a purchase order approval dated March 4, 2025.

This report presents a review of the information provided to us, a description of the site and subsurface conditions, and our recommendations. The appendices contain a Site Location Map, a Boring Location Plan, and Boring Logs.

We will be happy to discuss our recommendations with you and look forward to providing the additional studies or services necessary to complete this project. We appreciate the opportunity to be of service. Please call us with any questions at (770) 667-2040.

Sincerely,
Environmental Corporation of America

Athulya Balakrishnan, P.E.
Geotechnical Engineer
State of Kentucky P.E. #39178

Marvin G. Webster
President

Purpose and Scope of Work

The purpose of this investigation was to obtain specific subsurface data at the project location and to provide geotechnical related parameters for the design and construction of foundations for a new tower and associated guy anchors.

Our scope of work included the following:

- Four (4) soil test borings were drilled to depths ranging from 20 to 30 feet below ground surface (bgs).
- Figure 1 shows the Site Location Map. Figure 2 shows the Boring Location Plan.
- Standard penetration tests (SPTs) were conducted to obtain soil samples and SPT N-values, in accordance with ASTM D-1586.
- The depth to groundwater, if any, was measured in the boring after drilling was completed.
- Natural moisture content (WC_N) tests were performed on a selected number of soil samples in accordance with ASTM D-2216.
- A soil laboratory resistivity test was conducted in accordance ASTM G-57.
- Unconfined compressive strength (q_u) index tests were performed using the pocket penetrometer test or the spring tester test (whenever possible).
- The soil samples were visually classified in accordance with ASTM D-2488 and a boring log was prepared.
- The soil conditions were evaluated by a registered professional engineer and this geotechnical report was prepared with our recommendations.

We have recommended design parameters and settlements based on the SPT N-values, an examination of the soil samples, and our experience with similar soil conditions and structures.

Project Information

We were provided with a preliminary site plan prepared by Benchmark Services, Inc. dated December 20, 2024. The proposed tower would be located off State Highway 630, Slaughters, Webster County, Kentucky.

We understand that plans include constructing a 300-foot tall guyed-type tower with three guy anchors, as shown on Figure 2 in Appendix A. We assume that the equipment building/cabinet

will be a prefabricated structure supported on a perimeter grade beam, spread footing or turndown slab. The project also includes constructing a 30-foot wide ingress/egress and utility easement.

Field Drilling Work

The drilling work was conducted on March 8, 2025. Information obtained from the boring logs was used to help us evaluate the subsurface conditions and to assist in formulating our recommendations. The site was not staked at the time of our field visit.

Subsurface Soil Conditions (Borings B-1, B-2, B-3, and B-4)

The subsurface conditions were explored with four soil test borings, drilled approximately as shown on Figure 2.

Boring B-1 (Lease Area Center): In general, soils at the site consisted of very hard silty Clay (CL) to an approximate depth of 6 feet, underlain by Weathered Siltstone manually described as very hard clayey Silt (Weathered Siltstone) to the full depth drilled of 30 feet bgs.

The following table presents a summary of the existing soil conditions in Boring B-1.

Soil Profile Depth (ft)		Type of Soils (Soil Manual Classification)	*Soil Symbols	SPT N-Values bpf (blows per foot)
0	6	Very hard silty Clay	CL	Over 50
6	30	Weathered Siltstone manually described as very hard clayey Silt	Weathered Siltstone	Over 50

*Soil symbols are based in the Unified Soil Classification System (USCS).

The encountered upper silty clay soil layer is considered very hard in consistency with estimated unconfined compressive strength (qu) measurement of 8,000 psf. The encountered weathered siltstone layer is very hard in consistency with estimated unconfined compressive strength (qu) measurement of 8,000 psf. Soil natural moisture was manually described as dry and damp.

Borings B-2 (Southwest), B-3 (East), and B-4 (Northwest) were drilled near the locations of the proposed guy anchors. It is our understanding that these three borings were drilled for the evaluation of the subsurface conditions for the design of new guy anchors.

Guy Anchor Boring (B-2, B-3, and B-4): In general, soils consisted of very hard silty Clay (CL) to an approximate depth of 6 feet, underlain by Weathered Siltstone manually described as very hard silty Clay (Weathered Siltstone) to the full depth drilled of 20 feet bgs. The SPT N-values within the described depths are shown on the attached boring logs and all were over 50 bpf. Soil natural moisture was manually described as dry and damp.

All final boring logs are shown in Appendix B.

Groundwater Level Conditions

A ground water level was not encountered at any of the four borings within the depths drilled. It should be noted that groundwater level observations made within mostly cohesive soils during drilling could be misleading. It should be anticipated that the groundwater level will fluctuate due to seasonal changes during the year. To determine actual groundwater level measurements, groundwater levels should be measured using observation wells installed for prolonged periods.

Laboratory Electrical Resistivity Test

A laboratory resistivity value of 2,984 ohms-cm was reported. A table with the laboratory test data is shown in Appendix C. It should be noted that the soil samples were saturated for this testing procedure. Based on the laboratory test results, most of the soil is rated "Highly-Corrosive".

Foundation Recommendations

The subsurface conditions are suitable for support of the tower using a conventional shallow foundation system.

For the case of a conventional shallow foundation the soils are capable of a maximum net allowable soil bearing pressure (q_{ALL}) of 4,000 psf (pounds per square foot) at a minimum embedment depth of (D_f) of 3.5 feet bgs. Total and differential settlement should be less than 1-inch and ½-inch, respectively. A safety factor (SF) of 3 and a wet soil unit weight (γ_{wet}) of 120 pcf (pounds per cubic foot) was considered for soil bearing calculations.

The provided soil bearing pressure assumes the bottom of excavation would be dry and stable. The bottom of excavation should be proof rolled, observed, and inspected prior to placing any concrete. For more details, please refer to our Fill Placement Section.

Tower Guy Anchors

We assume that the guy anchors will consist of a deadman or concrete blocks and that compacted backfill will be placed around the guy anchors to a density equivalent to at least 95% of the standard proctor maximum dry density (γ_{dmax}). The following table presents our review of the subsurface conditions encountered in each boring at the proposed guy-anchor locations.

Boring No. (Guy Anchor)	Depth (feet)	*Soil Unit Weight (pcf)	Friction Angle (deg)	Cohesion (psf)	Earth Pressure Coefficients		
					K_A	K_P	K_O
B-1 (SW) B-2 (E) B-3 (NW)	0 - 6	120	0	3,500	1.00	1.00	1.00
	6 - 20	125	0	4,150	1.00	1.00	1.00

Guy anchor concrete blocks should be founded at a minimum depth of foundation (D_f) between 4 and 6 feet below existing grade elevations.

Building Foundations

The proposed equipment building can be supported on a perimeter grade beam, spread footing or turndown slab foundation. For the design of the building foundation the soils are capable of a maximum net allowable soil bearing pressure (q_{ALL}) of 2,000 psf. A minimum depth of foundation (D_f) of 1.5 feet below existing grades elevations should be considered. Total and differential settlements should be less than 1/2-inch and 1/4-inch, respectively.

Ground floor slabs may be designed as conventional slabs on grade over the existing soils or on engineered compacted fill using a Modulus of Subgrade Reaction (K_s) of 85 pci (pounds per cubic inch). Bearing pad should be prepared and compacted prior to placing any concrete. Contractors should verify the Fill Placement section of this report. For these foundations, ECA recommends a minimum concrete strength (f'c) of 4,000 psi (pounds per square inch). We recommend a value of 150 pcf for concrete.

Soil Site Class

Based on our site evaluation and the information provided by the International Building Code (IBC 2012 / ASCE 7-10), to perform a dynamic analysis the clients design engineer should consider that the soils at the site fall under a **Very Dense Soil Profile and Site Class C.**

Foundation Excavations

A groundwater level was not encountered during drilling operations. Therefore, the prospective contractor should not need to consider excavation dewatering.

A very dense weathered siltstone rock formation was encountered at the site in all four borings below 6 feet. The prospective contractor should consider specialized equipment for hard soil excavation.

To avoid softening of the shallow soils exposed at the foundation bearing level, excavations should not be left open for extended periods prior to placing reinforcing steel and concrete. If rain or freezing weather is expected, excavations should not be completed. Leaving the excavations at least 1-foot above final grade should protect the bearing soils from deterioration.

If the excavation must remain open overnight or if rainfall becomes imminent while the bearing soils are exposed, we recommend that a 2 to 4-inch thick "mud-mat" of "lean" (2,000 psi) concrete be placed on the bearing soils before the placement of reinforcing steel. If the bearing soils are softened by surface water intrusion or exposure, the softened soils must be removed from the foundation excavation bottom immediately prior to placement of concrete.

Fill Placement

If required, borrow materials for fill, **unless otherwise specified**, should consist of essentially granular material (GW, GP, GM, GC, SW, SP or SM Unified Soil Classification System); **A-2-4 or better**, AASHTO Classification, as approved by the **Project Geotechnical Engineer**. These should be free from vegetation and should not contain rocks greater than 6 inches in size.

Any placed backfill required to attain finished grade should be placed in an engineered fashion with layers not exceeding 8- to 10-inch thick lifts and compacted to not less than 95% of the Standard Proctor Maximum dry density, as determined by method ASTM D-698. The soil moisture content should be close to the optimum moisture content. All required fills should meet the specified compaction criteria.

ECA does not know the capability of the surficial soil to support pavements. However, we suggest that the upper soils be replaced by granular fill in areas of heavy traffic to improve the subgrade support capabilities and moisture sensitivity.

Field density tests should be conducted at routine intervals as fill is being placed to verify that adequate compaction is achieved. Prior to placing any new fill, any soft or loose near surface soils should be removed and the area proof-rolled with a heavy vehicle or a heavy compaction vibratory roller to confirm that any unsuitable soil conditions have been discovered.

Basis for Recommendations

The subsurface conditions encountered at the boring locations are shown on the Boring Logs in Appendix B. The Boring Logs represent our interpretation of the subsurface conditions based on the field log and visual examination of field samples by an engineer. The lines designating the interface between various strata on the Boring Logs represent the approximate interface locations. In addition, the transition between strata may be gradual. The water level shown on the Boring Log, if any, represents the condition only at the time of our exploration.

The recommendations contained herein are based in part on project information provided to us and only apply to the specific project and site discussed in this report. If the project information section in this report contains incorrect information or if additional information is available, please let us know so that we may review the validity of our recommendations.

Regardless of the thoroughness of a geotechnical investigation, there is always a possibility that conditions between borings will be different from those at specific boring locations and that conditions will not be as anticipated by the designers or contractors. In addition, the construction process may itself alter soil conditions. Therefore, experienced geotechnical personnel should observe and document the construction procedures used and the conditions encountered. Unanticipated conditions and inadequate procedures should be reported to the design team along with timely recommendations to solve any problems created. ECA is best qualified to provide this service based on our familiarity with the project, the subsurface conditions, and the intent of the recommendations and design.

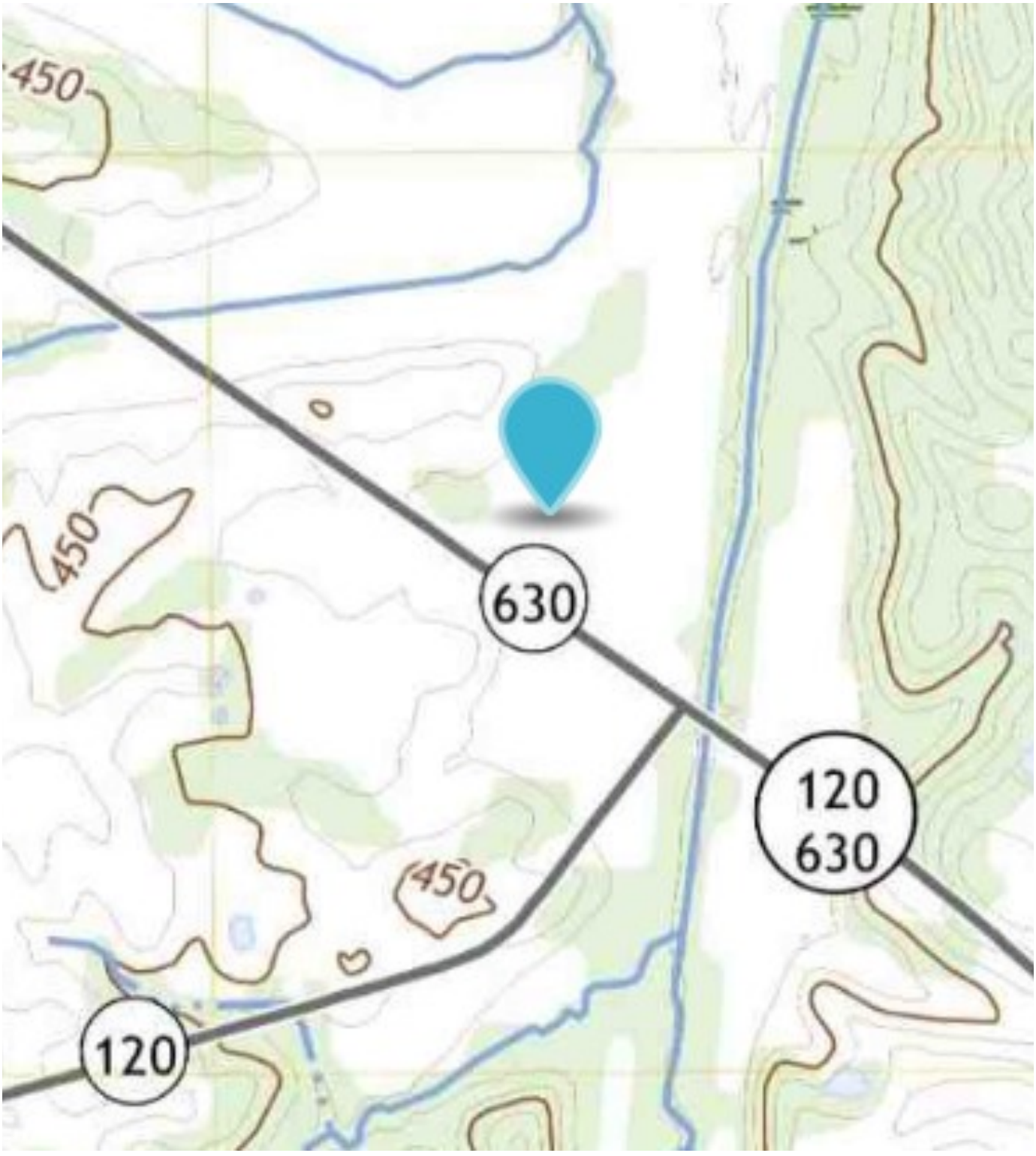
We wish to remind you that we will store the soil samples for 30 days. The samples will then be discarded unless you request otherwise.

APPENDICES

Appendix A Figures
Appendix B Boring Logs
Appendix C Laboratory Earth Resistivity Test Data

APPENDIX A

Figures



Source: USGS Topographic Maps, 7.5 Minute Series, Slaughters, KY (2022).

N

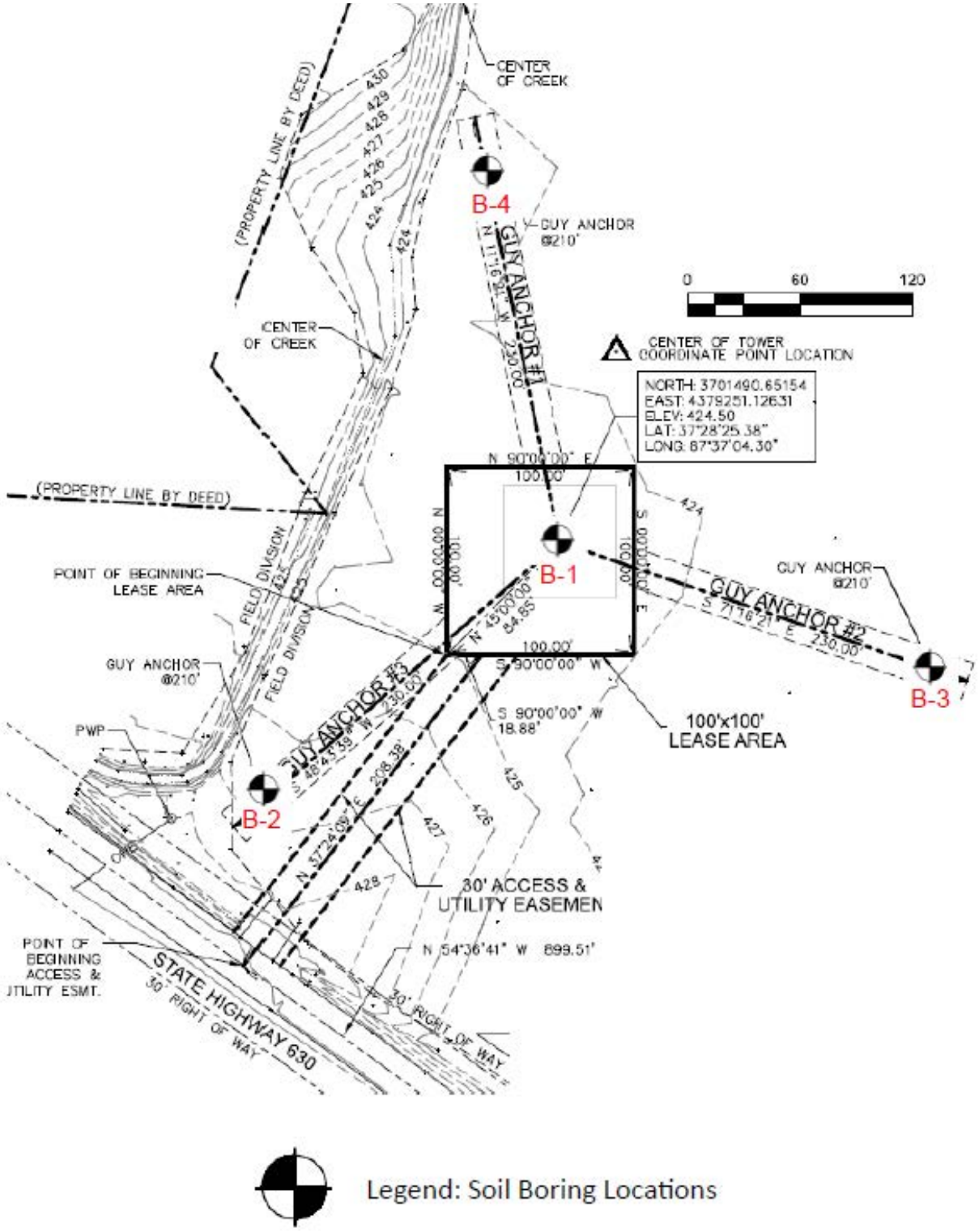
APC Towers, LLC Site - EV Heartland Academy (KY-1823)

Off State Route 630

Slaughters, Webster County, Kentucky

Figure 1: Site Location Map

ECA Project No. 25-000117



Source: Project site survey prepared by Benchmark Services, Inc. and dated December 20, 2024. Soil Boring Overlay by ECA.

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APC Towers, LLC Site - EV Heartland Academy (KY-1823)

State Route 630

Slaughters, Webster County, Kentucky

Figure 2: Boring Location Plan

ECA Project No. 25-000117

APPENDIX B

Boring Logs

Project: **EV Heartland Academy** Project Location: **Slaughters, KY** Project Number: **25-000117**	Environmental Corp of America 1375 Union Hill Industrial Ct. Suite-A Alpharetta, GA 30004 (770) 667-2040	Log of Boring B-1 **Sheet 1 of 1**

Date(s) Drilled **3/8/2025**	Logged By **A. Balakrishnan**	Checked By **A. Balakrishnan**
Drilling Method **HSA**	Drill Bit Size/Type **2.25 inches**	Total Depth of Borehole **30 feet bgs**
Drill Rig Type **Truck**	Drilling Contractor **South Drilling**	Approximate Surface Elevation **425 feet AMSL**
Groundwater Level and Date Measured **Not Encountered ATD**	Sampling Method(s) **SPT**	Hammer Data **140 Lbs hammer, rope and cathead**
Borehole Backfill **Cuttings**	Location **Slaughters, Webster County, Kentucky**	

Depth (feet)	Sample Number	Sample Type	Sampling Resistance, blows/ft	SPT N Values	Rec (%) / RQD (%)	MATERIAL DESCRIPTION	Material Type	Graphic Log	Water Content, %	qu (tsf)	PH	LL, %	PI, %
0						Brown, hard silty Clay, damp	CL						
	1		8-50/3"	50/3"									
	2		50/3"	50/3"		Same as above, very hard, damp	CL						
5													
	3		50/2"	50/2"		Weathered Siltstone manually decribed as very hard clayey silt, dry	Siltstone						
	4		50/2"	50/2"		Same as above, very hard, dry	Siltstone						
10						Auger refusal at 10 feet							
	5		50/51"	50/1"		Same as above, very hard, dry	Siltstone						
15													
	6		50/2"	50/2"		Same as above, very hard, dry	Siltstone						
20													
	7		50/1"	50/1"		Same as above, very hard, dry	Siltstone						
25													
	8		50/1"	50/1"		Same as above, very hard, dry	Siltstone						
30						End of Boring at 30 feet.							

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Project: **EV Heartland Academy** Project Location: **Slaughters, KY** Project Number: **25-000117**	Environmental Corp of America 1375 Union Hill Industrial Ct. Suite-A Alpharetta, GA 30004 (770) 667-2040	Log of Boring B-2 **Sheet 1 of 1**

Date(s) Drilled **3/8/2025**	Logged By **A. Balakrishnan**	Checked By **A. Balakrishnan**
Drilling Method **HSA**	Drill Bit Size/Type **2.25 inches**	Total Depth of Borehole **20 feet bgs**
Drill Rig Type **Truck**	Drilling Contractor **South Drilling**	Approximate Surface Elevation **425 feet AMSL**
Groundwater Level and Date Measured **Not Encountered ATD**	Sampling Method(s) **SPT**	Hammer Data **140 Lbs hammer, rope and cathead**
Borehole Backfill **Cuttings**	Location **Slaughters, Webster County, Kentucky**	

Depth (feet)	Sample Number	Sample Type	Sampling Resistance, blows/ft	SPT N Values	Rec (%) / RQD (%)	MATERIAL DESCRIPTION	Material Type	Graphic Log	Water Content, %	qu (tsf)	PH	LL, %	PI, %
0													
	1		50/2"	50/2"		Brown, very hard silty Clay, damp	CL						
	2		50/2"	50/2"		Same as above, very hard, damp	CL						
5													
	3		50/1"	50/1"		Weathered Siltstone manually decribed as very hard clayey silt, damp	Siltstone						
	4		50/1"	50/1"		Same as above, very hard, damp	Siltstone						
10						Auger refusal at 10 feet							
	5		50/1"	50/1"		Same as above, very hard, dry	Siltstone						
15													
	6		50/1'	50/1"		Same as above, very hard, dry	Siltstone						
20						End of Boring at 20 feet.							
25													
30													

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Project: **EV Heartland Academy** Project Location: **Slaughters, KY** Project Number: **25-000117**	Environmental Corp of America 1375 Union Hill Industrial Ct. Suite-A Alpharetta, GA 30004 (770) 667-2040	Log of Boring B-3 **Sheet 1 of 1**

Date(s) Drilled **3/8/2025**	Logged By **A. Balakrishnan**	Checked By **A. Balakrishnan**
Drilling Method **HSA**	Drill Bit Size/Type **2.25 inches**	Total Depth of Borehole **20 feet bgs**
Drill Rig Type **Truck**	Drilling Contractor **South Drilling**	Approximate Surface Elevation **425 feet AMSL**
Groundwater Level and Date Measured **Not Encountered ATD**	Sampling Method(s) **SPT**	Hammer Data **140 Lbs hammer, rope and cathead**
Borehole Backfill **Cuttings**	Location **Slaughters, Webster County, Kentucky**	

Depth (feet)	Sample Number	Sample Type	Sampling Resistance, blows/ft	SPT N Values	Rec (%) / RQD (%)	MATERIAL DESCRIPTION	Material Type	Graphic Log	Water Content, %	qu (tsf)	PH	LL, %	PI, %
0													
	1		50/1"	50/1"		Brown, very hard silty Clay, damp	CL						
	2		50/3"	50/3"		Same as above, very hard, damp	CL						
5													
	3		50/1"	50/1"		Weathered Siltstone manually decribed as very hard clayey silt, damp	Siltstone						
	4		50/2"	50/2"		Same as above, very hard, damp	Siltstone						
10						Auger refusal at 10 feet							
	5		50/1"	50/1"		Same as above, very hard (no recovery)	Siltstone						
15													
	6		50/1'	50/1"		Same as above, very hard, dry	Siltstone						
20						End of Boring at 20 feet.							
25													
30													

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Project: **EV Heartland Academy** Project Location: **Slaughters, KY** Project Number: **25-000117**	Environmental Corp of America 1375 Union Hill Industrial Ct. Suite-A Alpharetta, GA 30004 (770) 667-2040	Log of Boring B-4 **Sheet 1 of 1**

Date(s) Drilled **3/8/2025**	Logged By **A. Balakrishnan**	Checked By **A. Balakrishnan**
Drilling Method **HSA**	Drill Bit Size/Type **2.25 inches**	Total Depth of Borehole **20 feet bgs**
Drill Rig Type **Truck**	Drilling Contractor **South Drilling**	Approximate Surface Elevation **425 feet AMSL**
Groundwater Level and Date Measured **Not Encountered ATD**	Sampling Method(s) **SPT**	Hammer Data **140 Lbs hammer, rope and cathead**
Borehole Backfill **Cuttings**	Location **Slaughters, Webster County, Kentucky**	

Depth (feet)	Sample Number	Sample Type	Sampling Resistance, blows/ft	SPT N Values	Rec (%) / RQD (%)	MATERIAL DESCRIPTION	Material Type	Graphic Log	Water Content, %	qu (tsf)	PH	LL, %	PI, %
0													
	1		16-50/1"	50/1"		Brown, very hard silty Clay, damp	CL						
	2		50/3"	50/3"		Same as above, very hard, damp	CL						
5													
	3		50/2"	50/2"		Weathered Siltstone manually decribed as very hard clayey silt, damp	Siltstone						
	4		50/2"	50/2"		Same as above, very hard, damp	Siltstone						
10						Auger refusal at 10 feet							
	5		50/1"	50/1"		Same as above, very hard, dry	Siltstone						
15													
	6		50/1'	50/1"		Same as above, very hard, dry	Siltstone						
20						End of Boring at 20 feet.							
25													
30													

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Project: **EV Heartland Academy** Project Location: **Slaughters, KY** Project Number: **25-000117**	Environmental Corp of America 1375 Union Hill Industrial Ct. Suite-A Alpharetta, GA 30004 (770) 667-2040	Key to Log of Boring **Sheet 1 of 1**

Depth (feet)	Sample Number	Sample Type	Sampling Resistance, blows/ft	SPT N Values	Rec (%) / RQD (%)	MATERIAL DESCRIPTION	Material Type	Graphic Log	Water Content, %	qu (tsf)	PH	LL, %	PI, %
1	2	3	4	5	6	7	8	9	10	11	12	13	14

COLUMN DESCRIPTIONS

1. Depth (feet): Depth in feet below the ground surface.
2. Sample Number: Sample identification number.
3. Sample Type: Type of soil sample collected at the depth interval shown.
4. Sampling Resistance, blows/ft: Number of blows to advance driven sampler one foot (or distance shown) beyond seating interval using the hammer identified on the boring log.
5. SPT N Values: SPT N Values
6. Rec (%) / RQD (%): Core Recovery(%) & Rock Quality Designation (%)
7. MATERIAL DESCRIPTION: Description of material encountered. May include consistency, moisture, color, and other descriptive text.
8. Material Type: Type of material encountered.
9. Graphic Log: Graphic depiction of the subsurface material encountered.
10. Water Content, %: Water content of the soil sample, expressed as percentage of dry weight of sample.
11. qu (tsf): Unconfined Compression test
12. PH : Soil PH Tested
13. LL, %: Liquid Limit, expressed as a water content.
14. PI, %: Plasticity Index, expressed as a water content.

FIELD AND LABORATORY TEST ABBREVIATIONS

CHEM: Chemical tests to assess corrosivity
COMP: Compaction test
CONS: One-dimensional consolidation test
LL: Liquid Limit, percent
PI: Plasticity Index, percent
SA: Sieve analysis (percent passing No. 200 Sieve)
UC: Unconfined compressive strength test, Qu, in ksf
WA: Wash sieve (percent passing No. 200 Sieve)

MATERIAL GRAPHIC SYMBOLS

Lean CLAY, CLAY w/SAND, SANDY CLAY (CL)

Siltstone

TYPICAL SAMPLER GRAPHIC SYMBOLS

Auger sampler

CME Sampler

Pitcher Sample

Bulk Sample

Grab Sample

2-inch-OD unlined split spoon (SPT)

3-inch-OD California w/ brass rings

2.5-inch-OD Modified California w/ brass liners

Shelby Tube (Thin-walled, fixed head)

OTHER GRAPHIC SYMBOLS

Water level (at time of drilling, ATD)

Water level (after waiting, AW)

Minor change in material properties within a stratum

Inferred/gradational contact between strata

Queried contact between strata

GENERAL NOTES

1: Soil classifications are based on the Unified Soil Classification System. Descriptions and stratum lines are interpretive, and actual lithologic changes may be gradual. Field descriptions may have been modified to reflect results of lab tests.
2: Descriptions on these logs apply only at the specific boring locations and at the time the borings were advanced. They are not warranted to be representative of subsurface conditions at other locations or times.

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APPENDIX C

Laboratory Earth Resistivity Test Data

APPENDIX C

Laboratory Earth Resistivity Test Data per ASTM G-57

Site Name: EV Heartland Academy (KY-1823)

ECA Project #: 25-000117

Test Date: March 13, 2025

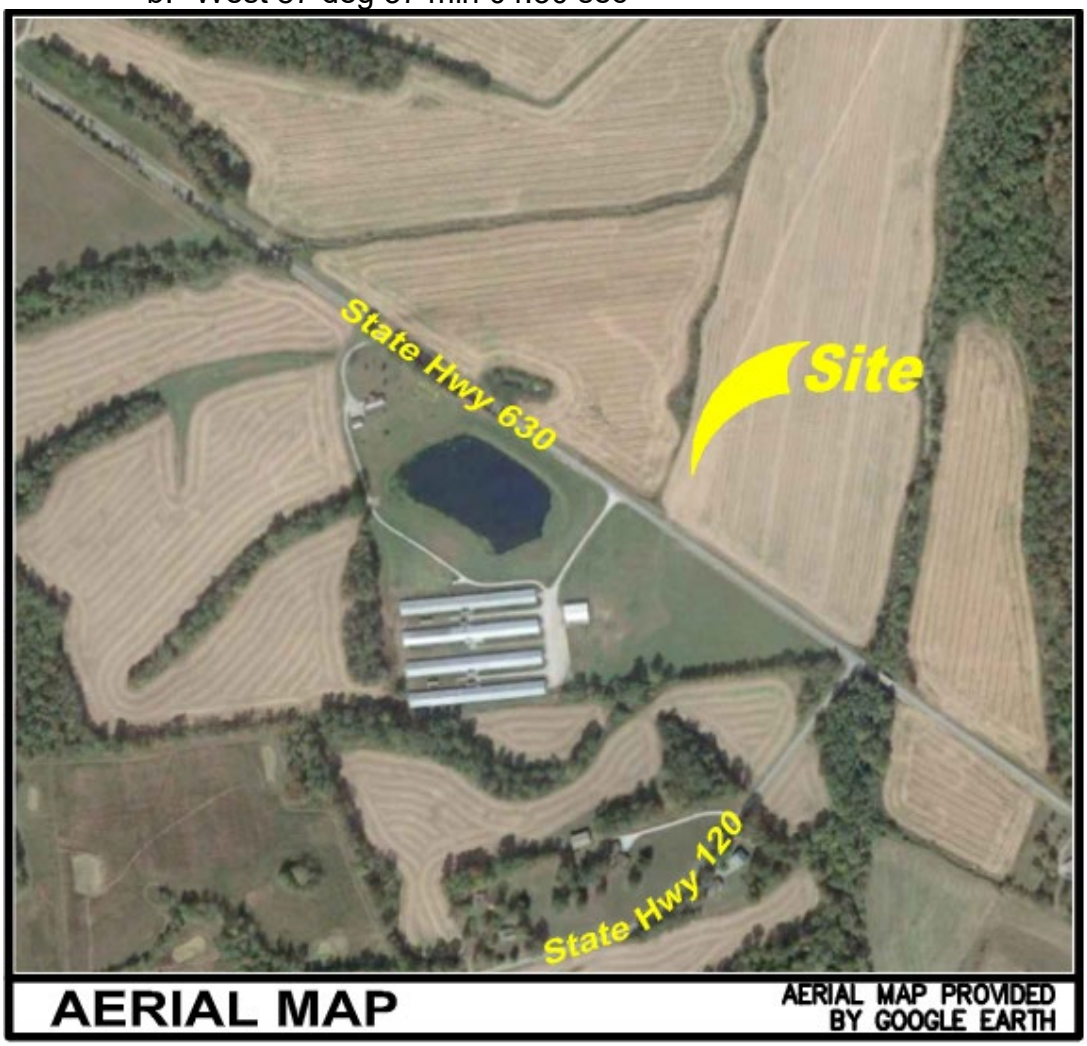
Test No.	Lab Meter Reading (R)	Calculated Resistivity (Ohms-cm)
Test Trial #1	2.270	2,977
Test Trial #2	2.270	2,977
Test Trial #3	2.280	2,990
Test Trial #4	2.280	2,990
***Average Reported Lab ER Value**		**2,984**
*The lab resistivity test was performed using the auger cutting samples within the upper 6 feet.		

EXHIBIT H

DIRECTIONS TO WCF SITE

Driving Directions to Proposed Tower Site

1. Beginning at 25 US-41 Alt, Dixon, KY, head northeast on Main Street and travel approximately 197 feet.
2. Turn right at the first cross street onto KY-132 N / Leiper Street and travel approximately 0.6 miles.
3. Turn right onto State Hwy 630 and travel approximately 4.9 miles.
4. The site is on the left.
5. The site coordinates are
    a. North 37 deg 28 min 25.38 sec
    b. West 87 deg 37 min 04.30 sec



Prepared by:
Chris Shouse
Pike Legal Group PLLC
1578 Highway 44 East, Suite 6
P.O. Box 369
Shepherdsville, KY 40165-3069
Telephone: 502-955-4400 or 800-516-4293

EXHIBIT I

COPY OF REAL ESTATE AGREEMENT

OPTION AND GROUND LEASE AGREEMENT

THIS OPTION AND GROUND LEASE AGREEMENT ("***Agreement***") is made and entered into as of the latter signature date hereto (the "***Effective Date***"), by and between ABRAHAM DERKSEN AND RACHEL F. DERKSEN, CO-TRUSTEES UNDER THE ABRAHAM DERKSEN AND RACHEL F. DERKSEN FAMILY LIVING REVOCABLE TRUST, with a mailing address of 1206 Beckley Osborne Road, Sebree, Kentucky 42455 ("***Lessor***"); and APC TOWERS IV, LLC, a Delaware limited liability company, with a mailing address of 8601 Six Forks Road, Suite 250, Raleigh, North Carolina 27615 ("***Lessee***").

RECITALS

WHEREAS, Lessor is the owner of that certain parcel of land located at State Route 630, Slaughters, Webster County, Kentucky 42456, also known as parcel number 069-019-000, as more specifically described on **Exhibit A** hereto (the "***Property***"); and

WHEREAS, Lessor desires to grant to Lessee, and Lessee desires to obtain from Lessor an option to lease from Lessor a portion of the Property comprised of approximately 100'x 100' (10,000 square feet) of ground space (the "***Premises***"), together with an access easement for ingress and egress and the installation and maintenance of utilities (the easements collectively referred to as the "***Easements***") both being approximately located as shown on **Exhibit B** (the Premises and the Easements are collectively referred to herein as the "**Site**"), for the purpose of establishing and maintaining a communications facility for Lessee's use and that of its subtenants, licensees and customers.

AGREEMENT

NOW, THEREFORE, in consideration of the foregoing premises, the mutual covenants and promises contained herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Lessor and Lessee agree as follows.

1. **Option to Lease.**

(a) In consideration of the payment of [redacted] (the "***Option Fee***") by Lessee to Lessor, Lessor hereby grants to Lessee an exclusive and irrevocable option to lease the Premises and use the Easements on the terms and conditions set forth herein below (the "***Option***"). The Option has a term of twenty-four (24) months, commencing on the Effective Date and ending as of midnight on the date before the first anniversary of such date (the "***Option Period***"). Lessee has the right to extend the Option for one (1) additional term of twenty-four (24) months (the "***Extended Option Period***"). The Option will automatically be extended for the Extended Option Period unless Lessee provides Lessor with written notice of Lessee's intent not to extend the Option at least ninety (90) days prior to the expiration of the Option Period or the Extended Option Period, as applicable. Lessee will pay Lessor an additional payment (the "***Additional Option Fee***") o[redacted] within thirty (30) days of the commencement of the Extended Option Period.

(b) During the Option Period, the Extended Option Period and the Term, Lessor agrees to cooperate with Lessee in obtaining, at Lessee's expense but for no additional consideration payable to Lessor, all licenses and permits or authorizations required for Lessee's use of the Site from all applicable government and/or regulatory entities (the "***Government Approvals***"). Lessor hereby irrevocably appoints Lessee or Lessee's agent as Lessor's agent to file applications on behalf of Lessor with federal, state and local governmental authorities which applications relate to Lessee's use of the Site, including but not limited to land use and zoning applications. During the Option Period, Extended Option Period and the Term, Lessor agrees to cooperate with Lessee, at no cost to Lessor but for no additional

Initials: AP / RD

consideration payable to Lessor, to obtain a title report, zoning approvals and variances, conditional-use permits and perform surveys, soils tests, perform RF engineering studies and other engineering procedures or environmental investigations on, under and over the Property, necessary to determine whether Lessee's use of the Site will be compatible with the Lessee's engineering specifications, intended use, system design, operations and Government Approvals. During the Option Period, Extended Option Period and the Term, Lessor agrees to provide Lessee, at no cost to Lessor but for no additional consideration payable to Lessor, with any documents, materials or other instruments required or requested for Lessee to secure a title policy for the Site, which may include, among others, and each as applicable, the following: (i) a certified copy of the formation documents of Lessor and all amendments thereto from the state in which Lessor is organized; (ii) a certificate of good standing for the Lessor issued by the state where the Lessor is organized, not dated later than five (5) business days from the date requested by Lessee; (iii) a true and complete copy of the names of any shareholders, members or partners of the Lessor; (iv) true and complete copy of any operating agreement, partnership agreement, bylaws or similar document and all amendments thereto together certified as accurate and complete by an officer, director, partner, member or manager of Lessor; (v) a copy of the authorizing resolutions or consent of Lessor's governing body authorizing Lessor to enter into, comply with and perform under this Agreement; and (vi) such other documents that may be reasonably required or requested. Lessor's provision of the foregoing documents, materials or other instruments required for Lessee to secure a title policy for the Site shall be a prerequisite for the payment of any Rent or other monetary amounts payable by Lessee under this Agreement, and notwithstanding anything to the contrary herein and in addition to Lessee's rights and remedies otherwise provided in this Agreement, Lessee shall have no obligation to make any rental or other payments to Lessor until such items have been supplied to Lessee to the reasonable satisfaction of Lessee and Lessee's title insurer.

(c) During the Option Period and any Extended Option Period, Lessee may exercise the Option by written notice to Lessor.

2. Premises. Subject to the terms and conditions of this Agreement, upon Lessee's exercise of the Option Lessor hereby leases to Lessee and Lessee hereby leases from Lessor the Premises together with the use of the Easements for the construction, modification, operation and maintenance of the Telecommunications Facilities (as defined in Section 7(a)).

3. Permitted Use. The Site may be used by Lessee for the construction, modification, operation, maintenance, repair, replacement and removal of the Telecommunications Facilities (the "***Permitted Use***"). Lessor may not commit any action or omission that would adversely affect the status of the Site with respect to the Permitted Use.

4. Term. The initial term of this Agreement ("***Initial Term***") is five (5) years, beginning on the date Lessee exercises the Option ("***Commencement Date***"), and expiring at midnight on the day prior to the fifth (5th) anniversary of the Commencement Date. Lessee has the right to extend the term of Agreement for nine (9) additional five (5)-year terms (each a "***Renewal Term***"). Each Renewal Term will be on the same terms and conditions set forth in this Agreement. This Agreement will automatically renew for each successive Renewal Term unless Lessee notifies Lessor in writing of Lessee's intention not to renew the Term at least thirty (30) days prior to the expiration of the then current Term. The Initial Term and Renewal Terms are collectively referred to herein as the "***Term***".

5. Rent.

(a) Lessee shall pay Lessor an initial monthly rent of [redacted] ("***Rent***"). The Rent is due and payable in advance on the first day of each month during the Term commencing as of the Rent Commencement Date. The "***Rent Commencement Date***" is the earlier of

(i) the date of issuance of a certificate of completion (or comparable certificate) from the applicable governmental authority for the Telecommunications Facilities or (ii) ninety (90) days from the Commencement Date. Rent will be prorated for any partial months, including the months in which the Rent Commencement Date and the expiration or termination of the Term occur. As a condition precedent to Lessee's obligation to remit any payments provided for under this Agreement, Lessor (as well as any successor to Lessor's interest in this Agreement or to such payments) agrees to provide Lessee with a completed IRS Form W-9 upon execution of this Agreement and at such other times as may be reasonably requested by Lessee, including any change in Lessor's name or address. If Lessee elects to remit payments payable under this Agreement by electronic funds transfer, Lessor agrees to provide to Lessee bank routing information for such purpose upon request of Lessee.

(b) The Rent will increase annually as of each anniversary of the Commencement Date, by an amount equal to [redacted] of the Rent in effect immediately prior to the increase.

(c) Within thirty (30) days of the Commencement Date, Lessee shall pay Lessor a one-time lump sum payment in the sum o[redacted] as a Lease Commencement Bonus.

6. **Interference.** Lessor may not use, nor may Lessor permit its tenants, licensees, employees, invitees or agents to use any portion of the Property in any way that interferes with Lessee's Permitted Use of the Site. Such interference will be a material breach of this Agreement by Lessor and Lessor shall have the responsibility to terminate the interference immediately upon written notice from Lessee. Anything to the contrary in this Agreement notwithstanding, the cure periods provided for in Section 10 will not be applicable to failure by Lessor to fulfill its obligations under this Section 6. If any interference does not cease or is not rectified as soon as possible, but in no event longer than twenty-four (24) hours after Lessee's written notice to Lessor, Lessor acknowledges that the continuing interference will cause irreparable injury to Lessee, as well as Lessee's sublessees and licensees, and Lessee has the right, in addition to any other rights that it may have at law or in equity, to bring action to enjoin such interference or to terminate this Lease immediately upon notice to Lessor. Lessor represents and warrants that it has not sold, leased, licensed or otherwise granted rights in the Property that in any way interfere or could reasonably be likely to interfere with Lessee's rights to use Site for the Permitted Use.

7. **Construction of Improvements.**

(a) Lessee may, from time to time during the Term, at its expense, construct, install, operate, maintain, replace, add to, upgrade and remove its (as well as its subtenants, licensees and customers) radio transmitting and receiving antennae, communications equipment, related cables, wires, conduits, air conditioning equipment and other appurtenances, as well as a tower(s) and building(s) or cabinets to house such equipment (collectively, the "***Telecommunications Facilities***"). Although the Telecommunications Facilities may become fixtures under applicable law, they will remain solely the property of Lessee and Lessee's subtenants, licensees and customers, and Lessee (and its subtenants, licensees and customers) has the right to remove any or all of them from time to time during the Term and at the expiration or earlier termination of the Term. If the tower to be constructed by Lessee on the Premises is a guyed tower, Lessor also grants Lessee easements in, over, across and through the Property or any other real property owned by Lessor as may be necessary to Tenant during the Initial Term and any Renewal Terms of this Agreement for the installation and maintenance and removal of and reasonable access to guy wires and guy wire anchors, which may be located outside of the Site.

(b) The Telecommunications Facilities shall be initially configured as generally set forth in **Exhibit C**, subject to change by Lessee consistent with Section 7(a).

(c) Lessee is solely responsible for operations, maintenance, repair and insuring of the equipment owned, constructed and installed by Lessee on the Premises.

(d) Lessor hereby grants Lessee a non-exclusive, unimpaired landscape easement which includes the right to install vegetation and screening around the exterior of the perimeter of the Premises as necessary to meet the applicable landscaping and buffering requirements of applicable land use laws, rules and regulations, if and when such placement should ever be required (the "***Landscape Easement***").

(e) Lessee, at its sole discretion, may, without any need to obtain the consent of Lessor, license or sublease all or a portion of the Site and/or the Telecommunications Facilities.

8. Access. During the Term, ingress and egress to the Premises is hereby granted by Lessor to Lessee and its subtenants, licensees and customers, and each of such party's agents, contractors and subcontractors, on a 24-hour a day, 365 days per year basis. This ingress and egress shall include the nonexclusive right to and from the Premises, over and across the Property and an access way from nearby public streets and driveways and parking rights for personnel and equipment. Lessee also has a nonexclusive right of way over and across the Property as necessary for the installation, running, servicing and maintenance of electrical power and other utilities necessary to serve the Telecommunications Facilities.

9. Utilities.

(a) Lessee has the right to install utilities (including without limitation communications services and power) at Lessee's expense, and to improve the present utilities, if any, on the Premises. Lessee shall, wherever practical, install separate meters for utilities used on the Premises.

(b) Lessee may utilize the Easements for ingress, egress, and access to the Premises as may be required for the construction, installation and maintenance by the appropriate utility companies for the purpose of servicing the Telecommunications Facilities. In addition to Lessee and its sublessees and licensees, Lessee may grant the right to utilize the Easements to any utility servicing the Site. Lessor agrees to execute, at no cost to Lessee a utility easement between Lessor and any such utility provider, if reasonably necessary.

10. Default. Any breach of a material term hereof that is not cured within thirty (30) days from receipt of written notice from the non-breaching party shall constitute a "***Default***"; provided, however, that if efforts to cure such breach are commenced within said 30-day period and thereafter diligently prosecuted to completion, such period shall be extended for a period of time not to exceed six (6) months. The foregoing notwithstanding, any monetary breach not cured within fifteen (15) days from receipt of written notice thereof from the other party shall constitute a Default by the breaching party.

11. Termination.

(a) In addition to other termination rights contained in this Agreement, this Agreement may be terminated upon written notice from the non-breaching party to the breaching party upon a Default and as otherwise provided in this section.

(b) Lessee may terminate this Agreement upon written notice to Lessor if Lessee determines, in Lessee's sole discretion, that the results of any studies, reports, and/or applications for Governmental Approvals contemplated under Section 1(b) of this Agreement are unacceptable.

(c) Lessee may terminate this Agreement upon thirty (30) days prior written notice to Lessor, if (i) Lessee determines that the Premises are technologically unsuitable, in Lessee's reasonable opinion, for the operation of the Telecommunications Facilities, including but not limited to unacceptable radio signal interference and any addition, alteration or new construction on, adjacent to or in the vicinity of the Premises or the Property that blocks, either partially or totally, transmission or receiving paths used by any of the Telecommunications Facilities; (ii) any Governmental Approval that Lessee reasonably deems necessary or convenient for the construction, operation, maintenance, reconstruction, modification, addition to or removal of the Telecommunications Facilities is not, in Lessee's sole discretion, reasonably obtainable or maintainable in the future; (iii) Lessee determines, in Lessee's commercially reasonable judgment, that that the Premises cease to be economically viable as a telecommunications site; or (iv) Hazardous Substances (as defined in Section 14) are or become present on the Property in violation of Environmental Laws (as defined in Section 14).

12. Condemnation. If all or any part of the Premises or any portion of the Easements, or any roadway to the Premises is taken by eminent domain or other action by any governmental or quasi-governmental body having the legal right to take said lands, and if said taking in the sole discretion of Lessee renders the Premises unsuitable for its intended purpose, then at Lessee's option, Lessee may terminate this Agreement as of the date the title vests in the condemning authority. Lessor and Lessee will share in the condemnation proceeds in proportion to the values of their respective interests in the Site (which for Lessee includes, where applicable, the value of the Telecommunication Facilities, moving expenses, prepaid rent and business dislocation expenses). If Lessee does not terminate this Agreement as provided in this section, this Agreement shall remain in effect, but the Rent shall be reduced by the amount that bears the same proportion to the Rent immediately prior to the partial taking which was applicable to the Premises immediately prior to such taking and thereafter the "Premises" will be deemed to be the remaining portion of the initial Premises.

13. Indemnification.

(a) Lessor, its heirs, grantees, successors, and assigns shall indemnify and defend Lessee from and against any claims, obligations, liabilities, costs, demands, damages, expenses, suits or causes of action, including costs and reasonable attorney's fees, which may arise out of (i) any injury to or death of any person; or (ii) any damage to property, if such injury, death or damage arises out of or is attributable to or results from the acts or omissions of Lessor, or Lessor's principals, employees, invitees, agents or independent contractors. Lessee, its grantees, successors, and assigns shall indemnify and defend Lessor from and against any claims, obligations, liabilities, costs, demands, damages, expenses, suits or causes of action, including costs and reasonable attorney's fees, which may arise out of (i) any injury to or death of any person; or (ii) any damage to property, if such injury, death or damage arises out of or is attributable to or results from the negligent acts or omissions of Lessee, or Lessee's employees, agents or independent contractors.

(b) If either party is entitled to indemnification and defense ("***Indemnified Party***") from the other party ("***Indemnifying Party***") pursuant to this Agreement, the Indemnified Party shall notify the Indemnifying Party promptly, in writing, of any claims by any person for which the Indemnified Party alleges that the Indemnifying Party is responsible hereunder and tender the defense of such claim to the Indemnifying Party. The Indemnified Party shall fully cooperate with the defense or settlement of such claim. The Indemnifying Party shall not be liable under this Agreement for settlements by the Indemnified Party of any claim unless the Indemnifying Party has approved the settlement in advance (such approval not to be unreasonably withheld, conditioned or delayed) or unless the defense of the claim has been tendered to the Indemnifying Party, in writing, and the Indemnifying Party has failed promptly to undertake the defense. This Section 13 shall survive the termination or expiration of this Agreement.

14. Hazardous Substances. Lessor represents and warrants to Lessee that Lessor: (i) is not presently engaged in, (ii) does not presently have actual knowledge of, (iii) has not at any time in the past engaged in, and (iv) has no actual knowledge that any third person or entity has engaged in or permitted any operations or activities upon, or any use or occupancy of, the Premises, or any portion of the Property, for the purpose of, or in any way involving the handling, manufacturing, treatment, storage, use, transportation, spillage, leakage, dumping, discharge or disposal (whether legal or illegal), accidental or intentional, of any hazardous substances, materials or wastes ("***Hazardous Substances***") regulated under any local, state, or federal law pertaining to the environment, public health or safety or the handling, manufacturing, treatment storage, use, transportation, spillage, leakage, dumping, discharge or disposal of Hazardous Substances ("***Environmental Laws***"). Lessor indemnifies and defends Lessee from and against any and all claims of liability under any Environmental Laws for Hazardous Substances which were handled, manufactured, treated, stored, used, transported, spilled, leaked, dumped, discharged, disposed of or otherwise introduced into the Property, except for claims arising in whole or in any part out of Lessee's use or occupancy of the Premises. The indemnity obligations contained in this Section 14 shall survive the termination or expiration of this Agreement.

15. Insurance. Lessee will carry during the term of the Agreement the following insurance with customary coverage and exclusions: (i) bodily injury: [redacted] for injury to any one person and $2,000,000.00 for all injuries sustained by more than one person in any one occurrence; and (ii) property damage: full replacement costs of Lessee's property. Lessee agrees to furnish Lessor with certificates of insurance certifying that Lessee has in force and effect the above specified insurance. Lessee shall have Lessor named as additional insured on all polices obtained or maintained by Lessee pursuant to this Section 15, except for workers' compensation policies. Lessor and Lessee mutually covenant and agree that each party, in connection with insurance policies required to be furnished in accordance with the terms of this Agreement, or in connection with insurance policies which they obtain insuring such insurable interest as Lessor or Lessee may have in its own properties, whether personal or real, shall expressly waive any right of subrogation on the part of the insurer against the Lessor or Lessee as the same may be applicable, which right to the extent not prohibited or violative of any such policy is hereby expressly waived. Lessor and Lessee each agree to seek recovery based solely on insurance policies as set forth above, provided such policies are in effect, and each mutually waive all right of recovery against each other, their agents, or employees for any loss, damage or injury of any nature whatsoever to property or person except to the extent either party is required by this Agreement to carry insurance.

16. Taxes. Lessee shall pay any personal property taxes assessed on or attributable to the Telecommunications Facilities. Lessor shall pay when due all real property taxes and all other fees and assessments attributable to the Property, Premises and Easements. Lessee will pay to Lessor within thirty (30) days from Lessor's request, any increase in Lessor's real property taxes which Lessor demonstrates, to Lessee's satisfaction, is directly and solely attributable to any improvements to the Site made by Lessee. If Lessor fails to pay when due any taxes affecting the Property or the Site, Lessee shall have the right, but not the obligation, to pay such taxes and (i) deduct the full amount of the taxes paid by Lessee on Lessor's behalf from future installments of Rent, or (ii) collect such taxes by any lawful means.

17. Quiet Enjoyment, Title and Authority.

(a) During the Term, Lessee may peaceably and quietly hold and enjoy the Premises, free from disturbance from any person claiming by, through or under Lessor, subject only to those matters of title of record as of the Effective Date.

(b) Lessor covenants and warrants to Lessee that: (i) Lessor has full right, power and authority to execute this Agreement; (ii) Lessor has good and unencumbered title to the Property, free and clear of any liens or mortgages, except those disclosed to Lessee and of record as of the Effective Date, that will not interfere with Lessee's rights to or use of the Premises; (iii) the execution and performance of this

Agreement will not violate any laws, ordinances, covenants, or the provisions of any mortgage, lease, or other agreement binding on Lessor.

(c) Lessor agrees that, during the Option Period, Extended Option Period and the Term, Lessee will have the exclusive right to lease the Property or any portion thereof from the Lessor for the operation of antennae and telecommunications facilities providing transmission and receiving facilities for wireless providers and users, and that Lessor will not grant a lease, sublease, or other license or right to use any portion of the Property, or any other adjacent property owned by Lessor, to any other party for operation of antenna and/or telecommunications facilities.

18. Notices.

(a) All notices hereunder must be in writing and shall be deemed validly given if sent by hand delivery, a reputable national overnight courier service (such as FedEx or United Parcel Service), or by certified mail, postage prepaid, return receipt requested, to the address shown below (or to any other address that the party to be notified may designate from time to time by written notice to the other party).

If to Lessor to: Abraham and Rachel Derksen Trust
1206 Beckley Osborne Road
Sebree, Kentucky 42455
Attention: Abe Derksen
Ref. Site ID: KY-1823 - EV Heartland Academy

Telephone: [redacted] *(included for information purposes only and not for notices)*
Email: [redacted] *(included for information purposes only; not for notices)*

If to Lessee to: APC Towers IV, LLC
8601 Six Forks Road, Suite 250
Raleigh, North Carolina 27615
Attention: Daniel C. Agresta III
Ref. Site ID: KY-1823 - EV Heartland Academy

Telephone: [redacted] *(included for information purposes only and not for notices)*
Fax: [redacted] *(included for information purposes only; not for notices)*

(b) If there is a change in ownership of the Property and Lessor's agreement is assigned to another party, then within ten (10) days of such transfer, Lessor or its successor will send copies of the documents listed below in this subsection (b) to Lessee. Until Lessee receives all such documents, Lessee shall not be responsible for any failure to make payments under this Agreement and reserves the right to hold payments due under this Agreement.

i. Old deed to Property
ii. New deed to Property
iii. Bill of Sale or Transfer
iv. Current Tax Bill
v. New IRS Form W-9
vi. Full contact (information purposes only and not for notices) for new Lessor including phone number(s)

19. Estoppel, Non-Disturbance and Attornment.

(a) Lessor will, from time to time, upon not less than ten (10) days prior written notice from Lessee, execute and deliver to Lessee a written estoppel certificate certifying that as of the date of the certification: (i) this Agreement is a valid enforceable agreement, presently in full force and effect; (ii) whether Lessor has any knowledge of any default or breach by Lessee under any of the terms, conditions, or covenants of this Agreement; (iii) the Term (its commencement and termination dates) and the term of any option or renewal periods granted to the Lessee to extend the Term; (iv) the amount of the then-current Rent payable under the Agreement; (v) attached to the certification is a true and correct copy of the Agreement and all amendments thereto, (vi) and such other facts as Lessee or its prospective mortgagee or purchaser may request.

(b) Lessor shall obtain for Lessee from the holder of any mortgage and deed of trust now or hereafter encumbering the Property a subordination and non-disturbance agreement in the form attached hereto as **Exhibit E**, providing that so long as Lessee is not in default under this Agreement, its rights as Lessee hereunder shall not be terminated and its access to and possession of the Premises shall not be disturbed by the mortgagee or trustee, or by any proceedings on the debt which any such mortgage or deed of trust secures, and that any sale at foreclosure shall be subject to this Agreement.

20. Assignment. This Agreement is freely assignable by Lessee to any other party upon written notice to Lessor, without the necessity of obtaining Lessor's consent. Upon an assignment, Lessee shall be relieved of all liabilities and obligations arising under this Agreement subsequent to the date of such assignment. Lessee, at its sole discretion, may, without any need to obtain the consent of Lessor, license or sublease all or a portion of the Site and/or the Telecommunications Facilities. Additionally, Lessee may mortgage or grant a security interest in this Agreement and the Telecommunications Facilities and may assign this Agreement and the Telecommunications Facilities to any such mortgagees or holders of security interests including their successors and assigns (hereinafter collectively referred to as "***Secured Parties***"). If requested by Lessee, Lessor shall execute such consent to such financing as may reasonably be required by Secured Parties. In addition, if requested by Lessee, Lessor agrees to notify Lessee and Lessee's Secured Parties simultaneously of any default by Lessee and to give Secured Parties the same right to cure any default as Lessee. If a termination, disaffirmance or rejection of this Agreement by Lessee pursuant to any laws (including any bankruptcy or insolvency laws) occurs, or if Lessor shall terminate this Agreement for any reason, Lessor will give to Secured Parties prompt notice thereof and Secured Parties shall have the right to enter upon the Premises during a 30-day period commencing upon Secured Parties' receipt of such notice for the purpose of removing any Telecommunications Facilities. Lessor acknowledges that Secured Parties are third-party beneficiaries of this Agreement.

21. Limited Right of First Refusal. Notwithstanding anything to the contrary contained herein, this paragraph shall not apply to any fee simple sale of the Property from Lessor to any prospective purchaser that is not a Third-Party Competitor or to Lessee. A Third-Party Competitor as included in this Section is defined as a party that competes, owns, markets or distributes products within the telecommunications industry and is not an affiliate, licensee, or distributor of Lessee. If Lessor receives an offer or desires to offer to: (i) sell or convey any interest (including, but not limited to, leaseholds or easements) in any real property of which the Leased Premises is a part to a Third Party Competitor or (ii) assign all or any portion of Lessor's interest in the Lease to a Third Party Competitor (any such offer, the "Offer"), Lessee shall have the right of first refusal to purchase the real property or other interest being offered by Lessor in connection with the Offer on the same terms and conditions. If Lessee elects, in its sole and absolute discretion, to exercise its right of first refusal as provided herein, Lessee must provide Lessor with notice of its election not later than forty-five (45) days after Lessee receives written notice from Lessor of the Offer. If Lessee elects not to exercise Lessee's right of first refusal with respect to an Offer as provided herein, Lessor may complete the transaction contemplated in the Offer with the Third-Party Competitor on the stated terms and price but with the express condition that such sale is made subject to the terms of the Lease, as modified by this Amendment. Lessor hereby acknowledges and agrees that any sale or conveyance by Lessor in violation of this

Section is and shall be deemed to be null and void and of no force and effect. The terms, provisions, and conditions of this Section shall survive the execution and delivery of this Amendment.

22. Further Assurances. Each party shall take all such further actions and execute all such further documents and instruments as the parties may at any time reasonably determine to be necessary or desirable to carry out and consummate the transactions contemplated by this Agreement.

23. Waiver of Lessor's Lien. Lessor hereby waives any and all lien rights it may have, statutory or otherwise, in and to the Telecommunications Facilities or any portion thereof, regardless of whether or not same is deemed real or personal property under applicable laws.

24. Waiver of Damages. Neither Lessor nor Lessee shall be responsible or liable to the other party for any loss or damage arising from any claim to the extent attributable to any acts of vandalism or for any structural or power failures or destruction or damage to the Telecommunications Facilities except to the extent caused by the negligence or willful misconduct of such party. EXCEPT AS SPECIFICALLY PROVIDED IN THIS AGREEMENT, IN NO EVENT SHALL LESSOR OR LESSEE BE LIABLE TO THE OTHER FOR, AND LESSEE AND LESSOR EACH HEREBY WAIVE THE RIGHT TO RECOVER INCIDENTAL, CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, LOSS OF USE OR LOSS OF BUSINESS OPPORTUNITY), PUNITIVE, EXEMPLARY AND SIMILAR DAMAGES.

25. Miscellaneous.

(a) This Agreement shall extend to and bind the heirs, executors, administrators, successors and assigns of the parties hereto.

(b) This Agreement and the performance thereof shall be governed, interpreted, construed and regulated by the laws of the state or commonwealth in which the Site is located, without regard to its conflicts of laws principles.

(c) For purposes of providing constructive notice hereof and if required by applicable law, Lessor and Lessee hereby agree to execute the Memorandum of Ground Lease Agreement (see form attached hereto as **Exhibit D**), and Lessee shall have the same recorded in the land records of the county and state in which the Premises is located. The cost of any such recording is to be paid for solely by the Lessee.

(d) Any sale or other conveyance by the Lessor of all or part of the Site shall be under and subject to this Agreement and Lessee's rights hereunder.

(e) It is hereby mutually agreed and understood that this Agreement contains all agreements, promises and understandings between the Lessor and the Lessee and that no verbal or oral agreements, promises, or understandings shall or will be binding upon either the Lessor or Lessee in any dispute, controversy of proceeding at law, or any addition to, variation, or modification of this Agreement shall be void and ineffective unless in writing signed by the parties hereto.

(f) If either Lessor or Lessee is represented by a real estate broker in this transaction, that party is fully responsible for any fees due such broker and will hold the other party harmless from any claims for commission by such broker.

(g) This Agreement may be executed in two or more counterparts, all of which are considered one and the same agreement and become effective when one or more counterparts have been signed by each of the parties, it being understood that all parties need not sign the same counterpart.

(h) The parties agree that a scanned or electronically reproduced copy or image of this Agreement will be deemed an original and may be introduced or submitted in any action or proceeding as competent evidence of the execution, terms and existence hereof notwithstanding the failure or inability to produce or tender an original, executed counterpart of this Agreement and without the requirement that the unavailability of such original, executed counterpart of this Agreement first be proven.

(i) In the event of any dispute arising hereunder or a default by Lessor or Lessee, and if litigation is commenced, the prevailing party shall be entitled to recover from the other party all costs and expenses incurred in connection with such litigation, including, but not limited to, reasonable attorneys' fees and costs.

26. Confidentiality. Lessor shall not disclose to any third party the Rent payable by Lessee under this Agreement and shall treat such information as confidential, except that Lessor may disclose such information to prospective buyers, prospective or existing lenders, Lessor's affiliates and attorneys, or as may be required by law or as may be necessary for the enforcement of Lessor's rights under this Agreement. Lessor acknowledges that the disclosure of such information to any other parties may cause Lessee irreparable harm, and in the event of such disclosure, as an additional remedy, Lessee shall have the right to terminate this Agreement upon giving thirty (30) days written notice thereof to Lessor.

(Signature Pages Follow)

IN WITNESS WHEREOF, the parties hereto have executed this OPTION AND GROUND LEASE AGREEMENT as of the dates written below.

LESSOR:

ABRAHAM DERKSEN AND RACHEL F. DERKSEN, CO-TRUSTEES UNDER THE ABRAHAM DERKSEN AND RACHEL F. DERKSEN FAMILY LIVING REVOCABLE TRUST

By: Abraham Derksen

Name: Abraham Derksen

Title: Land Owner

Date: 06-25-2024

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

LESSOR ACKNOWLEDGMENT

COMMONWEALTH OF KENTUCKY

COUNTY OF Webster

On the 25th day of June in the year 2024 before me, the undersigned, personally appeared **Abraham Derksen**, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

JON MICHAEL SCOTT
Notary Public-State at Large
KENTUCKY - Notary ID # KYNP81919
My Commission Expires 11-01-2027

Jon Michael Scott

_____, Notary Public

My Commission Expires: 11-01-2027.

LESSOR:

ABRAHAM DERKSEN AND RACHEL F. DERKSEN, CO-TRUSTEES UNDER THE ABRAHAM DERKSEN AND RACHEL F. DERKSEN FAMILY LIVING REVOCABLE TRUST

By: Rachel F. Derksen

Name: Rachel F. Derksen

Title: Land Owner

Date: 06-25-2024

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

LESSOR ACKNOWLEDGMENT

COMMONWEALTH OF KENTUCKY

COUNTY OF Webster

On the 25th day of June in the year 2024 before me, the undersigned, personally appeared **Rachel F. Derksen,** personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her capacity, and that by her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Jon Michael Scott

_____, Notary Public

My Commission Expires: 11-01-2027.

JON MICHAEL SCOTT
Notary Public-State at Large
KENTUCKY - Notary ID # KYNP81919
My Commission Expires 11-01-2027

LESSEE:

APC TOWERS IV, LLC,
a Delaware limited liability company

By: _____

Name: Daniel C. Agresta III

Title: President and CEO

Date: 7/2/2024

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

LESSEE ACKNOWLEDGMENT

STATE OF NORTH CAROLINA

COUNTY OF WAKE

On the 2nd day of July in the year 2024 before me, the undersigned, personally appeared **Daniel C. Agresta III**, President and CEO of APC Towers IV, LLC, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Talicia C. Neal

TALICIA C. NEAL
Notary Public
Wake
County
My Comm. Exp.
04-12-2028
NORTH CAROLINA

Talicia C. Neal, Notary Public

My Commission Expires: April 12, 2028.

EXHIBIT A

LEGAL DESCRIPTION OF REAL PROPERTY

Legal description of the Property to be provided on new **Exhibit A** prior to exercise of Option per Paragraph 1(c). Initials by Lessor and Lessee at the bottom of the new **Exhibit A** will constitute approval.

SITUATED IN THE COUNTY OF WEBSTER AND COMMONWEALTH OF KENTUCKY, TO WIT:

BEGINNING AT A WHITE OAK AND BLACK GUM; THENCE SOUTH 80 DEGREES WEST, 58 POLES AND 18 LINKS TO A STAKE IN THE ORIGINAL LINE; THENCE NORTH 15 DEGREES WEST, 46 POLES TO A STAKE ON A DITCH; THENCE NORTH 85 DEGREES EAST, 25 POLES TO A STAKE IN THE CENTER OF THE CREEK; THENCE DOWN THE CREEK WITH ITS MEANDERS, NORTH 46 DEGREES WEST, 6 POLES; NORTH 12-1/2 DEGREES EAST, 29 POLES, EAST 9 POLES; NORTH 12 DEGREES EAST, 18 POLES; NORTH 18 DEGREES WEST, 11 POLES; NORTH 69 DEGREES WEST, 7 POLES TO A SYCAMORE ON SAID CREEK; THENCE DOWN SAME, NORTH 32 DEGREES EAST, 5 POLES AND 5 LINKS; NORTH 3 DEGREES WEST, 4 POLES; NORTH 32-1/2 DEGREES WEST, 4 POLES; NORTH 1/2 DEGREES EAST, 8 POLES; NORTH 23 DEGREES EAST, 8 POLES; NORTH 21-1/2 DEGREES WEST, 8 POLES; NORTH 33-1/2 DEGREES WEST, 14 POLES; NORTH 23-1/2 DEGREES EAST, 8 POLES; NORTH 61-1/2 DEGREES EAST, 15¬1/2 POLES TO A HICKORY ON THE BANK OF THE CREEK; THENCE SOUTH 62¬3/4 DEGREES EAST, 44 POLES TO A BLACK GUM; THENCE EAST 61 POLES TO A WHITE OAK; THENCE SOUTH 50 DEGREES WEST, 85 POLES TO A STAKE; THENCE SOUTH 1 DEGREES WEST, 89 POLES TO THE BEGINNING AND CONTAINING 62 ACRES.

TAX ID: 069-019-000

BEING THE SAME PROPERTY CONVEYED TO ABRAHAM DERKSEN AND RACHEL F. DERKSEN , CO-TRUSTEES UNDER THE ABRAHAM DERKSEN AND RACHEL F. DERKSEN FAMILY LIVING REVOCABLE TRUST, GRANTEE, FROM ABRAHAM DERKSEN (AKA ABE DERKSEN) AND RACHEL F. DERKSEN (AKA RACHEL DERKSEN), HUSBAND AND WIFE, GRANTOR, BY QUIT CLAIM DEED RECORDED 10/21/2016, IN BOOK 297, PAGE 170, OF THE WEBSTER COUNTY RECORDS.

EXHIBIT B

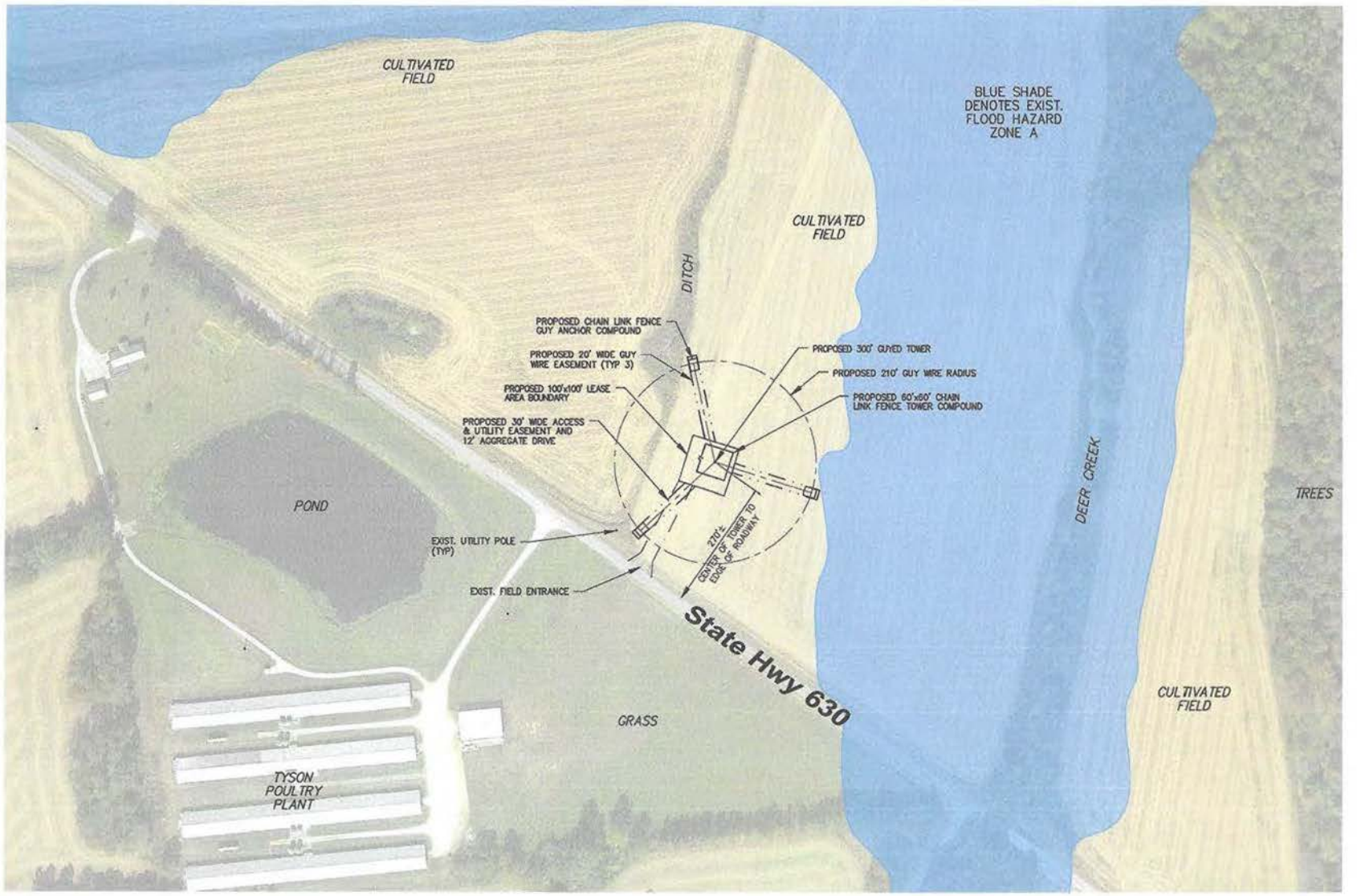
DESCRIPTION OF PREMISES

Legal description of the Premises and Easements may be provided on a new **Exhibit B** prior to exercise of Option per Paragraph 1(c). Initials by Lessor and Lessee at the bottom of the new **Exhibit B** will constitute approval thereof.

(Attached Hereto)

Notes:

1. This Exhibit may be replaced by a land survey and/or construction drawings of the Premises.
2. Any setback of the Premises from the Property's boundaries shall be the distance required by the applicable governmental authorities.
3. Width of access road shall be the width required by the applicable governmental authorities, including police and fire departments.



Overall Site Plan w/ Aerial Overlay

NORTH

0 100 200 400

1 inch = 200 feet

APC Towers
RALEIGH, NC 27615

CELLCO PARTNERSHIP, d/b/a
verizon
CHANDLER, IN 47610

MISSION 1 COMMUNICATIONS
FORT WAYNE, IN 46804

CERTIFICATION:

PRELIMINARY NOT FOR CONSTRUCTION

RELEASE DATE	

SITE NAME:

KY-1823
EV HEARTLAND ACADEMY CELL SITE

SITE ADDRESS:

STATE ROUTE 630
SLAUGHTERS, KY 42456

SHEET TITLE:

OVERALL SITE PLAN w/ AERIAL OVERLAY OPTION 1

SHEET NO.:

LE-1

EXHIBIT C

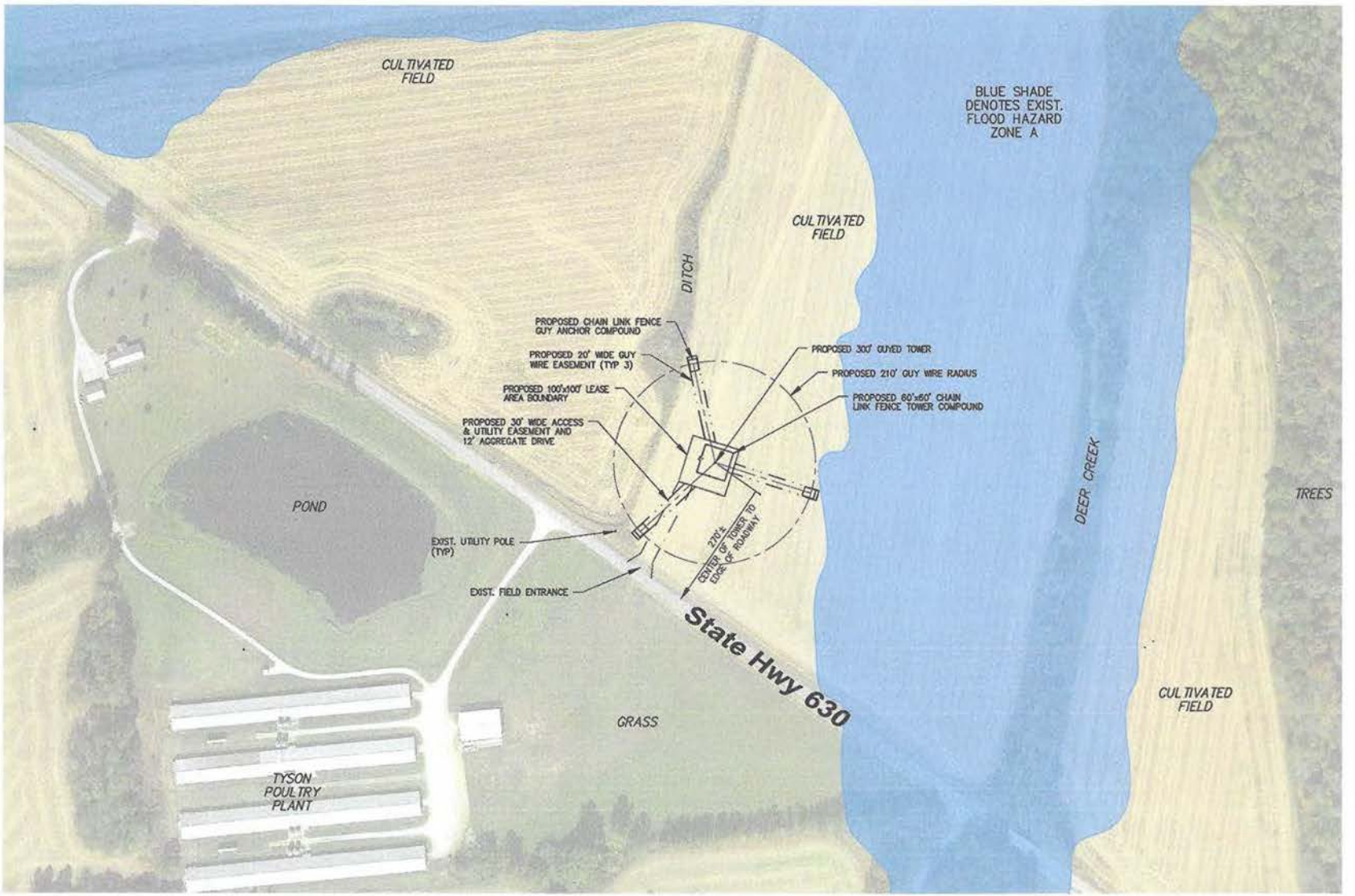
SITE PLAN

To be verified by survey prior to Exercise of Option per Paragraph 1(c).

(Attached Hereto)

Notes:

1. This Exhibit may be replaced by a land survey and/or construction drawings of the Premises.
2. Any setback of the Premises from the Property's boundaries shall be the distance required by the applicable governmental authorities.
3. Width of access road shall be the width required by the applicable governmental authorities, including police and fire departments.



Overall Site Plan w/ Aerial Overlay

NORTH

0 100 200 400

1 inch = 200 feet

APC Towers
RALEIGH, NC 27615

CELLCO PARTNERSHIP, d/b/a
verizon
CHANDLER, IN 47610

MISSION 1 COMMUNICATIONS
FORT WAYNE, IN 46804

CERTIFICATION:

PRELIMINARY NOT FOR CONSTRUCTION

RELEASE DATE	

SITE NAME:

KY-1823
EV HEARTLAND ACADEMY CELL SITE

SITE ADDRESS:

STATE ROUTE 630
SLAUGHTERS, KY 42456

SHEET TITLE:

OVERALL SITE PLAN w/ AERIAL OVERLAY OPTION 1

SHEET NO.:

LE-1

EXHIBIT J

NOTIFICATION LIST
PVA RECORDS
PROOF OF NOTICE

EV Heartland Academy – Notice List

069-019-000
DERKSEN ABRAHAM & RACHEL F FAMILY LIVING REVOCABLE TRUST
1206 BECKLEY OSBORNE RD
SEBREE, KY 42455

069-018-001
DERKSEN ABRAHAM & RACHEL FAMILY REV TRUST
1206 BECKLEY OSBORNE RD
SEBREE, KY 42455

069-018-000
DUNCAN WANDA
431 DUNCAN LN
HANSON, KY 42413

CHESTER LEE & WANDA DUNCAN
431 DUNCAN LN
HANSON, KY 42413

069-014-000
HORSCHEL DEBORAH (LIFE ESTATE)
204 VANDERBURG WINSTEAD RD
DIXON, KY 42409

069-015-000
OAKLEY GARY & BRENDA IRREVOCABLE TRUST C/O LORI DAVIS, TRUSTEE
972 ROSCOE VEAZEY RD
MANITOU, KY 42436

076-013-000
KNOWLES SIDNEY DARRELL & CAROLYN JEAN
PO BOX 27
SLAUGHTERS, KY 42456

076-012-000
LANHAM MINDY M & DUSTIN S
8767 ST RT 120 E
SLAUGHTERS, KY 42456

069-020-001
SHELTON IKE JAMERSON & KAYLA DAWN
7999 ST RT 120 E
NEBO, KY 42441

069-021-001
SCHROCK MERVIN & SARAH E
4840 ST RT 630
SLAUGHTERS, KY 42456

069-019-001 & 069-021-000
DUNCAN WANDA FAY
431 DUNCAN LN
HANSON, KY 42413

CHESTER LEE & WANDA DUNCAN
431 DUNCAN LN
HANSON, KY 42413
(Note: Same owners/address as Parcel # 069-018-000)

Webster County, KY PVA

Summary

Parcel Number	069-019-000
Account Number	85287
Location Address	ST RT 630
Description	58.805 ACRES (Note: Not to be used on legal documents)
Class	FARM (20)
Tax District	01 Webster County

View Map

Owner

DERKSEN ABRAHAM & RACHEL F FAMILY LIVING REVOCABLE TRUST
1206 BECKLEY OSBORNE RD
SEBREE, KY 42455

Land Characteristics

Condition	Average	**Topography**	Rolling
Plat Book/Page		**Drainage**	Natural
Subdivision	COUNTY	**Flood Hazard**	
Lot	0	**Zoning**	No Zoning
Block	0	**Electric**	Yes
Acres	58.81	**Water**	Yes
Front	0	**Gas**	No
Depth	0	**Sewer**	No
Lot Size	0x0	**Road**	
Lot Sq Ft	2561545	**Sidewalks**	No
Shape	Typical	**Information Source**	

Tax Roll Information

		2025 Working Value	2024 Certified Value
+	Land Value	$47,800	$47,800
+	Improvement Value	$0	$0
=	Total Taxable Value	**$47,800**	**$47,800**
-	Exemption Value	$0	$0
=	Net Taxable Value	**$47,800**	**$47,800**
+	Land FCV	$384,000	$384,000
+	Improvement FCV	$0	$0
=	Total FCV	**$384,000**	**$384,000**
	Exemption	Homestead: No	Homestead: No

Improvement Information

Building Number	1	**Kitchens**	0
Description		**Dining Rooms**	0
Residence Type	None	**Living Rooms**	0
Comm Type		**Family Rooms**	0
Mobile Home Type		**Bedrooms**	0
Year Built	0	**Full Baths**	0
Effective Age	0	**Half Baths**	0
Ave. Wall Height	0	**Other Rooms**	0
Structure	None	**Total Rooms**	0
Number of Stories	0	**Living Sq Ft**	0
Exterior	None	**Basement Sq Ft**	0
Foundation	None	**Fireplaces**	0
Construction Type	None	**Water**	N
Construction Quality	Average/Standard	**Supplemental Heat**	None
Building Condition	Good/Average	**Mobile Home Model**	
Roof Type	RY-None	**Mobile Home Manufacturer**	
Roof Cover	RF-None	**MH Skirt Foundation**	
Roof Pitch	RP-None	**Heat**	N
Basement Type	BT-None	**Heat Source**	None
Basement Finish	None	**Heat Type**	None
Basement Size	BS-None	**Air Conditioning**	N
Garage/Carport		**AC/Type**	None
Garage Size		**Special Improvements**	Y

Garage Type		**Fire Alarm**	N
Garage Exterior		**Sprinklers**	N
Width	0	**Porch/Deck**	
Length	0	**Porch Sq Ft**	0
Garage Sq Ft	0	**Deck Sq Ft**	0
Pool		**Concrete Sq Ft**	0
Pool Size	0	**Farm Bldg Type**	
Tennis Courts		**Value**	$0.00
		Driveway	Unimproved
		Fence	0

Sales

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
6/27/2016	$1	297	170	DERKSEN ABRAHAM & RACHEL F	DERKSEN ABE & RACHEL
12/30/2015	$1	294	537	DERKSEN ABE & RACHEL	JACOB DERKSEN (INT)
9/4/2003	$60,000	250	381	JACOB DERKSEN (INT)	DAVID W AND JEAN HERRON
12/1/1988	$35,000	201	496	DAVID W AND JEAN HERRON	VAUGHN & SPRINGEFI

Photos

No data available for the following modules: Sketches.

Webster County, KY PVA

Summary

Parcel Number	069-018-001
Account Number	92167
Location Address	4823 ST RT 630
Description	1.471 ACRES (Note: Not to be used on legal documents)
Class	RESIDENTIAL (10)
Tax District	01 Webster County

View Map

Owner

DERKSEN ABRAHAM & RACHEL FAMILY REV TRUST
1206 BECKLEY OSBORNE RD
SEBREE, KY 42455

Land Characteristics

Condition	Average	**Topography**	Not Used
Plat Book/Page		**Drainage**	Natural
Subdivision	COUNTY	**Flood Hazard**	
Lot	0	**Zoning**	No Zoning
Block	0	**Electric**	Yes
Acres	1.47	**Water**	Yes
Front	0	**Gas**	No
Depth	0	**Sewer**	No
Lot Size	0x0	**Road**	
Lot Sq Ft	64076	**Sidewalks**	No
Shape	Irregular	**Information Source**	

Tax Roll Information

		2025 Working Value	2024 Certified Value
+	Land Value	$1,000	$1,000
+	Improvement Value	$0	$0
=	Total Taxable Value	**$1,000**	**$1,000**
-	Exemption Value	$0	$0
=	Net Taxable Value	**$1,000**	**$1,000**
	Exemption	Homestead: No	Homestead: No

Improvement Information

Building Number	1	**Kitchens**	0
Description		**Dining Rooms**	0
Residence Type	None	**Living Rooms**	0
Comm Type		**Family Rooms**	0
Mobile Home Type		**Bedrooms**	0
Year Built	0	**Full Baths**	0
Effective Age	0	**Half Baths**	0
Ave. Wall Height	0	**Other Rooms**	0
Structure	None	**Total Rooms**	0
Number of Stories	0	**Living Sq Ft**	0
Exterior	None	**Basement Sq Ft**	0
Foundation	None	**Fireplaces**	0
Construction Type	None	**Water**	N
Construction Quality	Average/Standard	**Supplemental Heat**	None
Building Condition	Good/Average	**Mobile Home Model**	
Roof Type	RY-None	**Mobile Home Manufacturer**	
Roof Cover	RF-None	**MH Skirt Foundation**	
Roof Pitch	RP-None	**Heat**	N
Basement Type	BT-None	**Heat Source**	None
Basement Finish	None	**Heat Type**	None
Basement Size	BS-None	**Air Conditioning**	N
Garage/Carport		**AC/Type**	None
Garage Size		**Special Improvements**	Y
Garage Type		**Fire Alarm**	N
Garage Exterior		**Sprinklers**	N
Width	0	**Porch/Deck**	
Length	0	**Porch Sq Ft**	0

Garage Sq Ft	0	**Deck Sq Ft**	0
Pool		**Concrete Sq Ft**	0
Pool Size	0	**Farm Bldg Type**	
Tennis Courts		**Value**	$0.00
		Driveway	Gravel
		Fence	0

Sales

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
11/7/2017	$1,000	301	407	DERKSEN ABRAHAM & RACHEL FAMILY REV TRUST	DUNCAN CHESTER LEE & WANDA

Photos

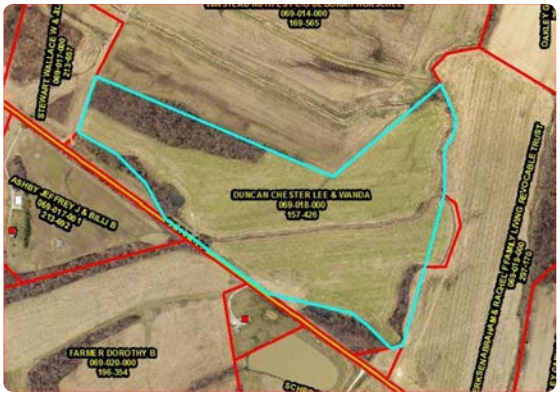
No data available for the following modules: Sketches.

Webster County, KY PVA

Summary

Parcel Number	069-018-000
Account Number	85286
Location Address	4823 ST RT 630
Description	47.029 ACRES (Note: Not to be used on legal documents)
Class	FARM (20)
Tax District	01 Webster County

View Map



Owner

DUNCAN WANDA
431 DUNCAN LN
HANSON, KY 42413

Land Characteristics

Condition	Average	**Topography**	Rolling
Plat Book/Page		**Drainage**	Natural
Subdivision	COUNTY	**Flood Hazard**	
Lot	0	**Zoning**	No Zoning
Block	0	**Electric**	Yes
Acres	47.03	**Water**	Yes
Front	0	**Gas**	No
Depth	0	**Sewer**	No
Lot Size	0x0	**Road**	
Lot Sq Ft	2048583	**Sidewalks**	No
Shape	Irregular	**Information Source**	

Tax Roll Information

		2025 Working Value	2024 Certified Value
+	Land Value	$33,425	$33,425
+	Improvement Value	$0	$0
=	Total Taxable Value	**$33,425**	**$33,425**
-	Exemption Value	$0	$0
=	Net Taxable Value	**$33,425**	**$33,425**
+	Land FCV	$276,000	$276,000
+	Improvement FCV	$0	$0
=	Total FCV	**$276,000**	**$276,000**
	Exemption	Homestead: No	Homestead: No

Improvement Information

Building Number	3	**Kitchens**	0
Description		**Dining Rooms**	0
Residence Type	None	**Living Rooms**	0
Comm Type		**Family Rooms**	0
Mobile Home Type		**Bedrooms**	0
Year Built	0	**Full Baths**	0
Effective Age	0	**Half Baths**	0
Ave. Wall Height	0	**Other Rooms**	0
Structure	None	**Total Rooms**	0
Number of Stories	0	**Living Sq Ft**	0
Exterior	None	**Basement Sq Ft**	0
Foundation	None	**Fireplaces**	0
Construction Type	None	**Water**	N
Construction Quality		**Supplemental Heat**	None
Building Condition	None	**Mobile Home Model**	
Roof Type	RY-None	**Mobile Home Manufacturer**	
Roof Cover	RF-None	**MH Skirt Foundation**	
Roof Pitch	RP-None	**Heat**	N
Basement Type	BT-None	**Heat Source**	None
Basement Finish	None	**Heat Type**	None
Basement Size	BS-None	**Air Conditioning**	N
Garage/Carport		**AC/Type**	None
Garage Size		**Special Improvements**	Y

Garage Type		**Fire Alarm**	N
Garage Exterior		**Sprinklers**	N
Width	0	**Porch/Deck**	
Length	0	**Porch Sq Ft**	0
Garage Sq Ft	0	**Deck Sq Ft**	0
Pool		**Concrete Sq Ft**	0
Pool Size	0	**Farm Bldg Type**	
Tennis Courts		**Value**	$0.00
		Driveway	Gravel
		Fence	0

Sales

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
2/1/1973	$30,000	157	426	DUNCAN CHESTER LEE & WANDA	E D HOLMES

Photos

No data available for the following modules: Sketches.

Webster County, KY PVA

Summary

Parcel Number	069-014-000
Account Number	85271
Location Address	ST RT 630
Description	160.0 ACRES (BISHOP PLACE) (Note: Not to be used on legal documents)
Class	FARM (20)
Tax District	01 Webster County

View Map

Owner

HORSCHEL DEBORAH (LIFE ESTATE)
204 VANDERBURG WINSTEAD RD
DIXON, KY 42409

Land Characteristics

Condition	Average	**Topography**	Rolling
Plat Book/Page		**Drainage**	Natural
Subdivision	COUNTY	**Flood Hazard**	
Lot	0	**Zoning**	No Zoning
Block	0	**Electric**	Yes
Acres	160.00	**Water**	Yes
Front	0	**Gas**	No
Depth	0	**Sewer**	No
Lot Size	0x0	**Road**	
Lot Sq Ft	6969600	**Sidewalks**	No
Shape	Typical	**Information Source**	

Tax Roll Information

		2025 Working Value	2024 Certified Value
+	Land Value	$101,125	$101,125
+	Improvement Value	$0	$0
=	Total Taxable Value	**$101,125**	**$101,125**
-	Exemption Value	$0	$0
=	Net Taxable Value	**$101,125**	**$101,125**
+	Land FCV	$852,000	$852,000
+	Improvement FCV	$0	$0
=	Total FCV	**$852,000**	**$852,000**
	Exemption	Homestead: No	Homestead: No

Improvement Information

Building Number	1	**Kitchens**	0
Description		**Dining Rooms**	0
Residence Type	None	**Living Rooms**	0
Comm Type		**Family Rooms**	0
Mobile Home Type		**Bedrooms**	0
Year Built	0	**Full Baths**	0
Effective Age	0	**Half Baths**	0
Ave. Wall Height	0	**Other Rooms**	0
Structure	None	**Total Rooms**	0
Number of Stories	0	**Living Sq Ft**	0
Exterior	None	**Basement Sq Ft**	0
Foundation	None	**Fireplaces**	0
Construction Type	None	**Water**	N
Construction Quality		**Supplemental Heat**	None
Building Condition	None	**Mobile Home Model**	
Roof Type	RY-None	**Mobile Home Manufacturer**	
Roof Cover	RF-None	**MH Skirt Foundation**	
Roof Pitch	RP-None	**Heat**	N
Basement Type	BT-None	**Heat Source**	None
Basement Finish	None	**Heat Type**	None
Basement Size	BS-None	**Air Conditioning**	N
Garage/Carport		**AC/Type**	None
Garage Size		**Special Improvements**	Y

Garage Type		**Fire Alarm**	N
Garage Exterior		**Sprinklers**	N
Width	0	**Porch/Deck**	
Length	0	**Porch Sq Ft**	0
Garage Sq Ft	0	**Deck Sq Ft**	0
Pool		**Concrete Sq Ft**	0
Pool Size	0	**Farm Bldg Type**	
Tennis Courts		**Value**	$0.00
		Driveway	Gravel
		Fence	0

Sales

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
9/11/2018	$1	WB 031	311	HORSCHEL DEBORAH (LIFE ESTATE)	WINSTEAD RUTH EST
11/1/1976	$23,000	169	565	WINSTEAD RUTH	AVERY WINSTEAD / SEE COMMENTS

Photos

No data available for the following modules: Sketches.

Webster County, KY PVA

Summary

Parcel Number	069-015-000
Account Number	85272
Location Address	8657 ST RT 120 E
Description	204.59 ACRES & RES/BLDG (Note: Not to be used on legal documents)
Class	FARM (20)
Tax District	01 Webster County

View Map

Owner

OAKLEY GARY & BRENDA IRREVOCABLE TRUST C/O LORI DAVIS, TRUSTEE
972 ROSCOE VEAZEY RD
MANITOU, KY 42436

Land Characteristics

Condition	Average	**Topography**	Rolling
Plat Book/Page		**Drainage**	Natural
Subdivision	COUNTY	**Flood Hazard**	
Lot	0	**Zoning**	No Zoning
Block	0	**Electric**	Yes
Acres	204.59	**Water**	Yes
Front	0	**Gas**	No
Depth	0	**Sewer**	No
Lot Size	0x0	**Road**	
Lot Sq Ft	8911940	**Sidewalks**	No
Shape	Typical	**Information Source**	

Tax Roll Information

		2025 Working Value	2024 Certified Value
+	Land Value	$90,700	$90,700
+	Improvement Value	$40,800	$40,800
=	Total Taxable Value	**$131,500**	**$131,500**
-	Exemption Value	($49,100)	($46,350)
=	Net Taxable Value	**$82,400**	**$85,150**
+	Land FCV	$807,500	$807,500
+	Improvement FCV	$40,800	$40,800
=	Total FCV	**$848,300**	**$848,300**
	Exemption	Homestead: Yes - $49,100	Homestead: Yes - $46,350

Improvement Information

Building Number	1	**Kitchens**	1
Description	HOUSE	**Dining Rooms**	0
Residence Type	Single Family	**Living Rooms**	1
Comm Type		**Family Rooms**	0
Mobile Home Type		**Bedrooms**	3
Year Built	0	**Full Baths**	2
Effective Age	0	**Half Baths**	0
Ave. Wall Height	0	**Other Rooms**	1
Structure	1 Story	**Total Rooms**	8
Number of Stories	1	**Living Sq Ft**	1,344
Exterior	Cut Stone	**Basement Sq Ft**	1344
Foundation	Concrete Block	**Fireplaces**	0
Construction Type	None	**Water**	Y
Construction Quality	Average/Standard	**Supplemental Heat**	None
Building Condition	Fair	**Mobile Home Model**	
Roof Type	RY-Hip	**Mobile Home Manufacturer**	
Roof Cover	RF-Asphalt Shingles	**MH Skirt Foundation**	
Roof Pitch	RP-None	**Heat**	Y
Basement Type	BT-Sunken	**Heat Source**	Natural Gas
Basement Finish	All Finished	**Heat Type**	Forced Air
Basement Size	BS-Full	**Air Conditioning**	Y
Garage/Carport	Carport	**AC/Type**	Wall Units

Garage Size	1 Car
Garage Type	Attached Carport
Garage Exterior	None
Width	0
Length	0
Garage Sq Ft	400
Pool	None
Pool Size	0
Tennis Courts	None
Special Improvements	N
Fire Alarm	N
Sprinklers	N
Porch/Deck	
Porch Sq Ft	0
Deck Sq Ft	0
Concrete Sq Ft	0
Farm Bldg Type	
Value	$40,800.00
Driveway	Gravel
Fence	0

Building Notes: KITCHEN AND BATH IN BASEMENT

Building Number	2
Description	SHED (D-W-M)
Residence Type	None
Comm Type	
Mobile Home Type	
Year Built	0
Effective Age	0
Ave. Wall Height	0
Structure	None
Number of Stories	0
Exterior	Wood
Foundation	None
Construction Type	Wood Frame
Construction Quality	
Building Condition	None
Roof Type	RY-None
Roof Cover	RF-Metal
Roof Pitch	RP-None
Basement Type	BT-None
Basement Finish	None
Basement Size	BS-None
Garage/Carport	
Garage Size	
Garage Type	
Garage Exterior	
Width	60
Length	29
Garage Sq Ft	0
Pool	
Pool Size	0
Tennis Courts	
Kitchens	0
Dining Rooms	0
Living Rooms	0
Family Rooms	0
Bedrooms	0
Full Baths	0
Half Baths	0
Other Rooms	0
Total Rooms	0
Living Sq Ft	0
Basement Sq Ft	0
Fireplaces	0
Water	N
Supplemental Heat	None
Mobile Home Model	
Mobile Home Manufacturer	
MH Skirt Foundation	
Heat	N
Heat Source	None
Heat Type	None
Air Conditioning	N
AC/Type	None
Special Improvements	N
Fire Alarm	N
Sprinklers	N
Porch/Deck	
Porch Sq Ft	0
Deck Sq Ft	0
Concrete Sq Ft	0
Farm Bldg Type	None
Value	$0.00
Driveway	Gravel
Fence	0

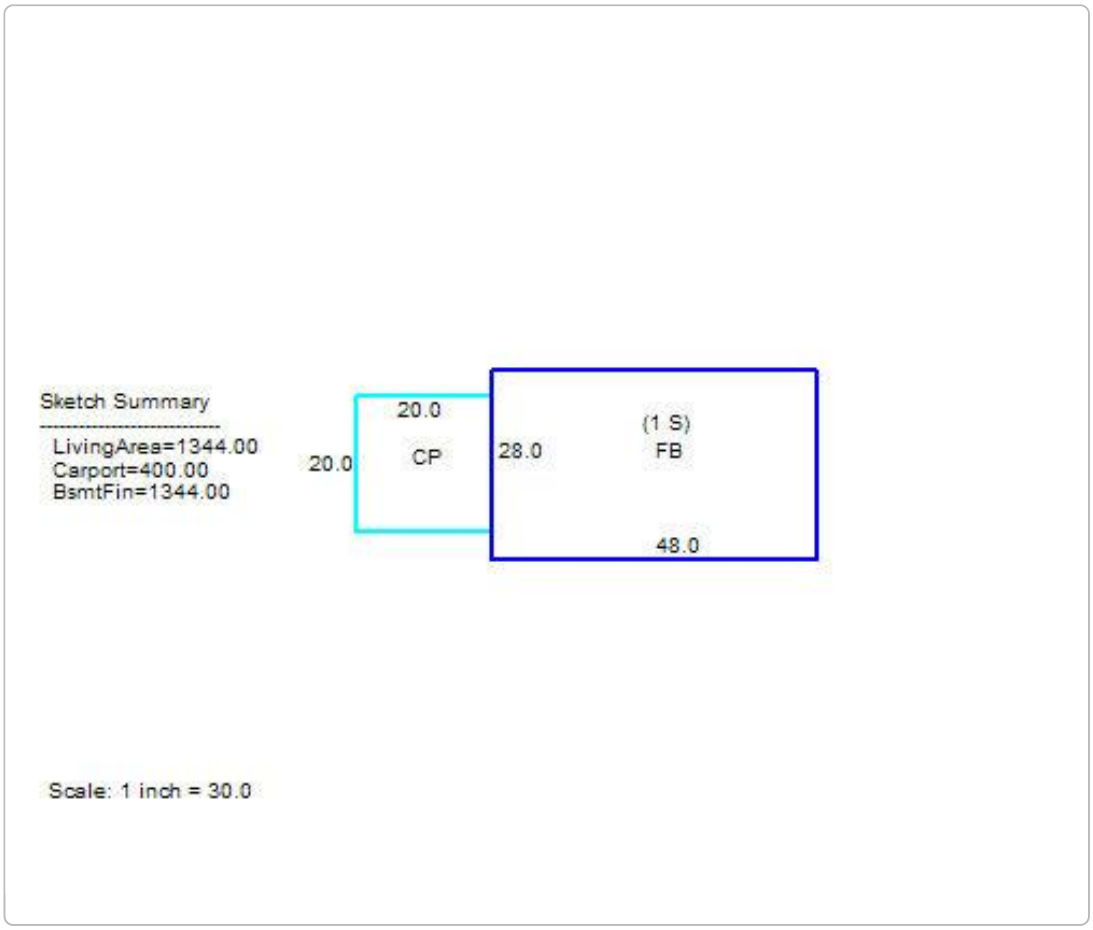
Building Number	3
Description	BARN (D-W-M)
Residence Type	None
Comm Type	
Mobile Home Type	
Year Built	0
Effective Age	0
Ave. Wall Height	0
Structure	None
Number of Stories	0
Exterior	Wood
Foundation	None
Construction Type	Wood Frame
Construction Quality	
Building Condition	None
Roof Type	RY-None
Roof Cover	RF-Metal
Roof Pitch	RP-None
Basement Type	BT-None
Basement Finish	None
Basement Size	BS-None
Garage/Carport	
Garage Size	
Garage Type	
Garage Exterior	
Width	55
Length	32
Garage Sq Ft	0
Pool	
Pool Size	0
Tennis Courts	
Kitchens	0
Dining Rooms	0
Living Rooms	0
Family Rooms	0
Bedrooms	0
Full Baths	0
Half Baths	0
Other Rooms	0
Total Rooms	0
Living Sq Ft	0
Basement Sq Ft	0
Fireplaces	0
Water	N
Supplemental Heat	None
Mobile Home Model	
Mobile Home Manufacturer	
MH Skirt Foundation	
Heat	N
Heat Source	None
Heat Type	None
Air Conditioning	N
AC/Type	None
Special Improvements	N
Fire Alarm	N
Sprinklers	N
Porch/Deck	
Porch Sq Ft	0
Deck Sq Ft	0
Concrete Sq Ft	0
Farm Bldg Type	General Barn
Value	$0.00
Driveway	Gravel
Fence	0

Sales

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
5/30/2024	$1	324	297	OAKLEY GARY & BRENDA IRREVOCABLE TRUST	OAKLEY GARY & BRENDA
3/24/2014	$1	289	233	OAKLEY GARY & BRENDA	BUCHANAN VANETA O EST
4/1/1956	$1	115	31	BUCHANAN VANETA O EST	

Photos

Sketches



Webster County, KY PVA

Summary

Parcel Number	076-013-000
Account Number	85715
Location Address	8877 ST RT 120 E
Description	45.0 ACRES & RES/BLDGS (Note: Not to be used on legal documents)
Class	FARM (20)
Tax District	01 Webster County

View Map

Owner

KNOWLES SIDNEY DARRELL & CAROLYN JEAN
PO BOX 27
SLAUGHTERS, KY 42456

Land Characteristics

Condition	Average	**Topography**	Rolling
Plat Book/Page		**Drainage**	Natural
Subdivision	COUNTY	**Flood Hazard**	
Lot	0	**Zoning**	No Zoning
Block	0	**Electric**	Yes
Acres	45.00	**Water**	Yes
Front	0	**Gas**	No
Depth	0	**Sewer**	No
Lot Size	0x0	**Road**	
Lot Sq Ft	1960200	**Sidewalks**	No
Shape	Typical	**Information Source**	

Tax Roll Information

		2025 Working Value	2024 Certified Value
+	Land Value	$24,100	$24,100
+	Improvement Value	$142,200	$142,200
=	Total Taxable Value	**$166,300**	**$166,300**
-	Exemption Value	($49,100)	($46,350)
=	Net Taxable Value	**$117,200**	**$119,950**

+	Land FCV	$156,000	$156,000
+	Improvement FCV	$142,200	$142,200
=	Total FCV	**$298,200**	**$298,200**
	Exemption	Homestead: Yes - $49,100	Homestead: Yes - $46,350

Improvement Information

Building Number	1	**Kitchens**	1
Description	HOUSE	**Dining Rooms**	0
Residence Type	Single Family	**Living Rooms**	1
Comm Type		**Family Rooms**	0
Mobile Home Type		**Bedrooms**	3
Year Built	0	**Full Baths**	1
Effective Age	0	**Half Baths**	1
Ave. Wall Height	0	**Other Rooms**	1
Structure	1 Story	**Total Rooms**	8
Number of Stories	1	**Living Sq Ft**	2,448
Exterior	Brick Veneer	**Basement Sq Ft**	0
Foundation	Concrete Block	**Fireplaces**	0
Construction Type	None	**Water**	Y
Construction Quality	Average/Standard	**Supplemental Heat**	None
Building Condition	Good/Average	**Mobile Home Model**	
Roof Type	RY-Gable	**Mobile Home Manufacturer**	
Roof Cover	RF-Asphalt Shingles	**MH Skirt Foundation**	
Roof Pitch	RP-None	**Heat**	Y
Basement Type	BT-None	**Heat Source**	Electric
Basement Finish	None	**Heat Type**	Forced Air
Basement Size	BS-None	**Air Conditioning**	Y
Garage/Carport	Garage	**AC/Type**	Central

Garage Size	2 Car	**Special Improvements**	N
Garage Type	Attached Garage	**Fire Alarm**	N
Garage Exterior	None	**Sprinklers**	N
Width	0	**Porch/Deck**	None
Length	0	**Porch Sq Ft**	200
Garage Sq Ft	625	**Deck Sq Ft**	0
Pool	None	**Concrete Sq Ft**	0
Pool Size	0	**Farm Bldg Type**	
Tennis Courts	None	**Value**	$136,700.00
		Driveway	Gravel
		Fence	0

Building Number	3	**Kitchens**	0
Description	BLDG/SHEDS	**Dining Rooms**	0
Residence Type	None	**Living Rooms**	0
Comm Type		**Family Rooms**	0
Mobile Home Type		**Bedrooms**	0
Year Built	0	**Full Baths**	0
Effective Age	0	**Half Baths**	0
Ave. Wall Height	0	**Other Rooms**	0
Structure	None	**Total Rooms**	0
Number of Stories	0	**Living Sq Ft**	0
Exterior	Metal	**Basement Sq Ft**	0
Foundation	Poured Concrete	**Fireplaces**	0
Construction Type	None	**Water**	N
Construction Quality	Average/Standard	**Supplemental Heat**	None
Building Condition	Good/Average	**Mobile Home Model**	
Roof Type	RY-None	**Mobile Home Manufacturer**	
Roof Cover	RF-Metal	**MH Skirt Foundation**	
Roof Pitch	RP-None	**Heat**	N
Basement Type	BT-None	**Heat Source**	None
Basement Finish	None	**Heat Type**	None
Basement Size	BS-None	**Air Conditioning**	N
Garage/Carport		**AC/Type**	None
Garage Size		**Special Improvements**	N
Garage Type		**Fire Alarm**	N
Garage Exterior		**Sprinklers**	N
Width	42	**Porch/Deck**	
Length	40	**Porch Sq Ft**	0
Garage Sq Ft	0	**Deck Sq Ft**	0
Pool		**Concrete Sq Ft**	0
Pool Size	0	**Farm Bldg Type**	None
Tennis Courts		**Value**	$5,500.00
		Driveway	Gravel
		Fence	0

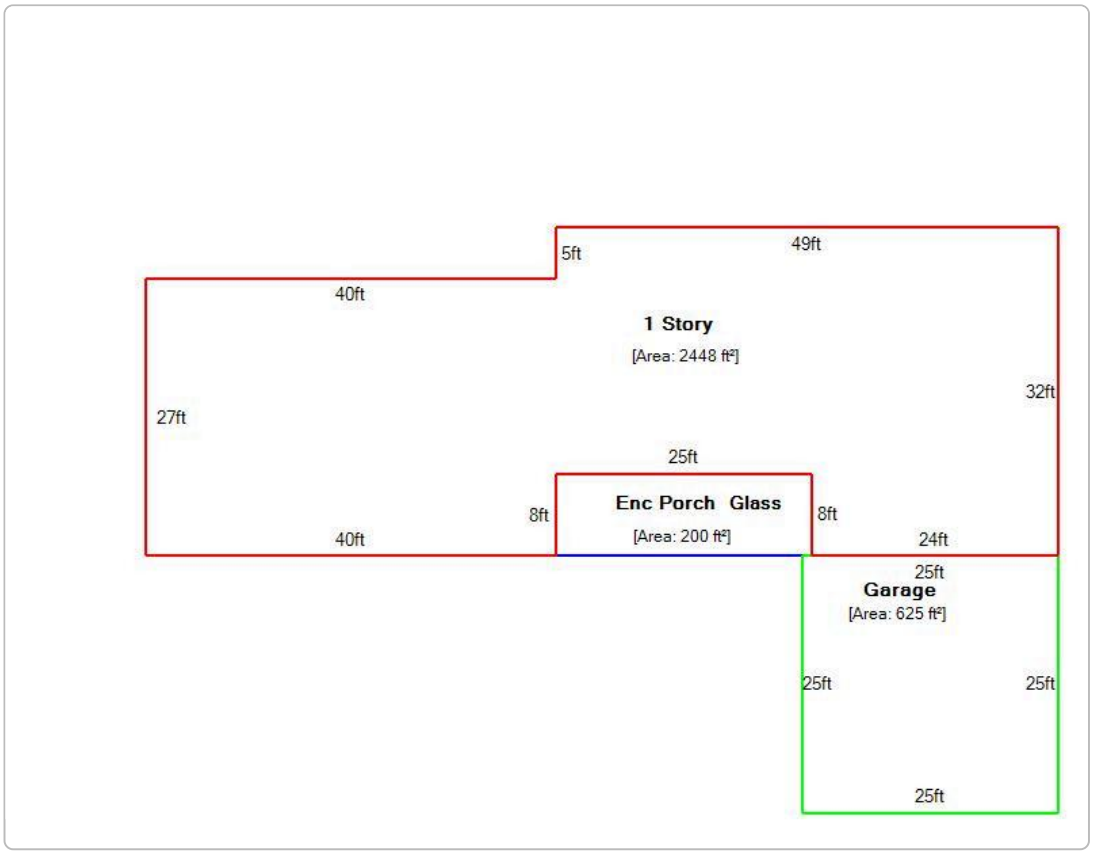
Building Notes: BLDG 30 X 40 (1200) C-M-M SHED 12 X 40 (480) G-O-M SHED 5 X 5 (25) G-O-M

Sales

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
10/1/1986	$76,500	196	394	KNOWLES SIDNEY DARRELL & CAROLYN JEAN	CLIFTON DORRIS

Photos

Sketches



Webster County, KY PVA

Summary

Parcel Number	076-012-000
Account Number	85714
Location Address	8767 ST RT 120 E
Description	15.0 ACRES & RES/BLDG (Note: Not to be used on legal documents)
Class	FARM (20)
Tax District	01 Webster County

View Map

Owner

LANHAM MINDY M & DUSTIN S
8767 ST RT 120 E
SLAUGHTERS, KY 42456

Land Characteristics

Condition	Average	**Topography**	Rolling
Plat Book/Page		**Drainage**	Natural
Subdivision	COUNTY	**Flood Hazard**	
Lot	0	**Zoning**	No Zoning
Block	0	**Electric**	Yes
Acres	15.00	**Water**	Yes
Front	0	**Gas**	No
Depth	0	**Sewer**	No
Lot Size	0x0	**Road**	
Lot Sq Ft	653400	**Sidewalks**	No
Shape	Typical	**Information Source**	

Tax Roll Information

		2025 Working Value	2024 Certified Value
+	Land Value	$9,850	$9,850
+	Improvement Value	$152,500	$152,500
=	Total Taxable Value	**$162,350**	**$162,350**
-	Exemption Value	$0	$0
=	Net Taxable Value	**$162,350**	**$162,350**
+	Land FCV	$40,625	$40,625
+	Improvement FCV	$152,500	$152,500
=	Total FCV	**$193,125**	**$193,125**
	Exemption	Homestead: No	Homestead: No

Improvement Information

Building Number	1	**Kitchens**	1
Description	HOUSE	**Dining Rooms**	0
Residence Type	Single Family	**Living Rooms**	1
Comm Type		**Family Rooms**	0
Mobile Home Type		**Bedrooms**	3
Year Built	2006	**Full Baths**	2
Effective Age	0	**Half Baths**	0
Ave. Wall Height	0	**Other Rooms**	1
Structure	1 Story	**Total Rooms**	8
Number of Stories	1	**Living Sq Ft**	1,328
Exterior	Vinyl	**Basement Sq Ft**	0
Foundation	Concrete Block	**Fireplaces**	0
Construction Type	None	**Water**	Y
Construction Quality	Average/Standard	**Supplemental Heat**	None
Building Condition	Good/Average	**Mobile Home Model**	
Roof Type	RY-Gable	**Mobile Home Manufacturer**	
Roof Cover	RF-Metal	**MH Skirt Foundation**	
Roof Pitch	RP-None	**Heat**	Y
Basement Type	BT-None	**Heat Source**	Electric
Basement Finish	None	**Heat Type**	Forced Air
Basement Size	BS-None	**Air Conditioning**	Y
Garage/Carport		**AC/Type**	Central
Garage Size	None	**Special Improvements**	N

Garage Type	None	**Fire Alarm**	N
Garage Exterior	None	**Sprinklers**	N
Width	0	**Porch/Deck**	None
Length	0	**Porch Sq Ft**	608
Garage Sq Ft	0	**Deck Sq Ft**	282
Pool	Above Ground	**Concrete Sq Ft**	0
Pool Size	28	**Farm Bldg Type**	
Tennis Courts	None	**Value**	$137,500.00
		Driveway	Gravel
		Fence	0

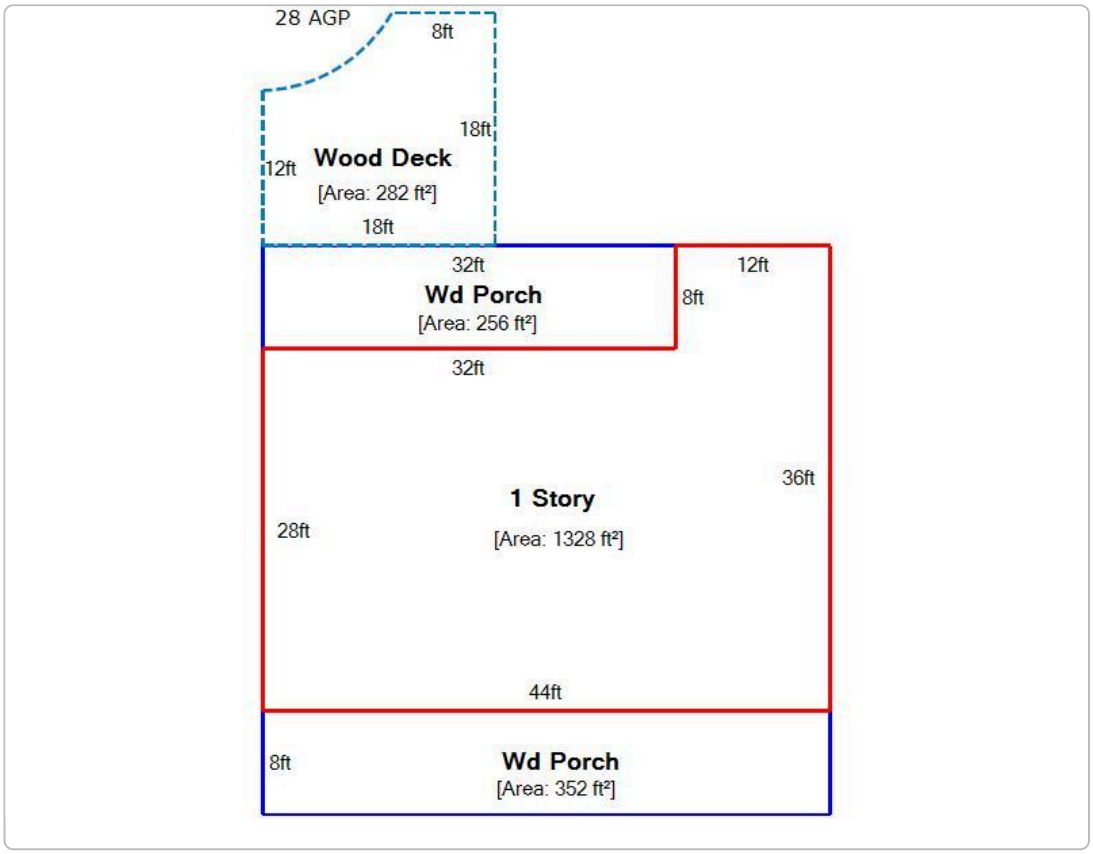
Building Number	2	**Kitchens**	0
Description	BLDG W/ 12' SHED	**Dining Rooms**	0
Residence Type	None	**Living Rooms**	0
Comm Type		**Family Rooms**	0
Mobile Home Type		**Bedrooms**	0
Year Built	2007	**Full Baths**	0
Effective Age	0	**Half Baths**	0
Ave. Wall Height	0	**Other Rooms**	0
Structure	None	**Total Rooms**	0
Number of Stories	0	**Living Sq Ft**	0
Exterior	Metal	**Basement Sq Ft**	0
Foundation	Slab	**Fireplaces**	0
Construction Type	Pole Frame	**Water**	N
Construction Quality		**Supplemental Heat**	None
Building Condition	None	**Mobile Home Model**	
Roof Type	RY-None	**Mobile Home Manufacturer**	
Roof Cover	RF-Metal	**MH Skirt Foundation**	
Roof Pitch	RP-None	**Heat**	N
Basement Type	BT-None	**Heat Source**	None
Basement Finish	None	**Heat Type**	None
Basement Size	BS-None	**Air Conditioning**	N
Garage/Carport		**AC/Type**	None
Garage Size		**Special Improvements**	N
Garage Type		**Fire Alarm**	N
Garage Exterior		**Sprinklers**	N
Width	40	**Porch/Deck**	
Length	60	**Porch Sq Ft**	0
Garage Sq Ft	0	**Deck Sq Ft**	0
Pool		**Concrete Sq Ft**	0
Pool Size	0	**Farm Bldg Type**	None
Tennis Courts		**Value**	$15,000.00
		Driveway	Gravel
		Fence	0

Sales

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
8/22/2014	$172,000	290	242	LANHAM MINDY M & DUSTIN S	MICHAEL S DELANO
9/30/2006	$11,000	262	307	MICHAEL S DELANO	DORIS TODD
5/1/1973	$2,500	134	468	DORIS TODD	JOE HOWARD

Photos

Sketches



Webster County, KY PVA

Summary

Parcel Number	069-020-001
Account Number	85289
Location Address	7999 ST RT 120 E
Description	1987 DW/BLDG & 5.00 ACRES (Note: Not to be used on legal documents)
Class	MOBILE/MANUFAC HOME (70)
Tax District	01 Webster County

View Map

Owner

SHELTON IKE JAMERSON & KAYLA DAWN
7999 ST RT 120 E
NEBO, KY 42441

Land Characteristics

Condition	Average	**Topography**	Rolling
Plat Book/Page		**Drainage**	Natural
Subdivision	COUNTY	**Flood Hazard**	
Lot	0	**Zoning**	No Zoning
Block	0	**Electric**	Yes
Acres	5.00	**Water**	Yes
Front	0	**Gas**	No
Depth	0	**Sewer**	No
Lot Size	0x0	**Road**	
Lot Sq Ft	217800	**Sidewalks**	No
Shape	Typical	**Information Source**	

Tax Roll Information

		2025 Working Value	2024 Certified Value
+	Land Value	$20,000	$20,000
+	Improvement Value	$149,000	$149,000
=	Total Taxable Value	**$169,000**	**$169,000**
-	Exemption Value	$0	$0
=	Net Taxable Value	**$169,000**	**$169,000**
	Exemption	Homestead: No	Homestead: No

Improvement Information

Building Number	2	**Kitchens**	0
Description	DOUBLE WIDE	**Dining Rooms**	0
Residence Type	DoubleWide	**Living Rooms**	0
Comm Type		**Family Rooms**	0
Mobile Home Type	MH - Residential	**Bedrooms**	3
Year Built	1987	**Full Baths**	2
Effective Age	0	**Half Baths**	0
Ave. Wall Height	0	**Other Rooms**	0
Structure	None	**Total Rooms**	5
Number of Stories	0	**Living Sq Ft**	1,904
Exterior	Vinyl	**Basement Sq Ft**	0
Foundation	MH Permanent	**Fireplaces**	0
Construction Type	None	**Water**	Y
Construction Quality	MHII: Standard	**Supplemental Heat**	None
Building Condition	Fair	**Mobile Home Model**	
Roof Type	RY-None	**Mobile Home Manufacturer**	FRIE
Roof Cover	RF-Asphalt Shingles	**MH Skirt Foundation**	Fiberglass
Roof Pitch	RP-None	**Heat**	Y
Basement Type	BT-None	**Heat Source**	Electric
Basement Finish	None	**Heat Type**	Forced Air
Basement Size	BS-None	**Air Conditioning**	Y
Garage/Carport		**AC/Type**	Central
Garage Size	None	**Special Improvements**	N
Garage Type	None	**Fire Alarm**	N
Garage Exterior	None	**Sprinklers**	N
Width	28	**Porch/Deck**	Open
Length	68	**Porch Sq Ft**	836

Garage Sq Ft	0	**Deck Sq Ft**	320
Pool		**Concrete Sq Ft**	0
Pool Size	0	**Farm Bldg Type**	
Tennis Courts		**Value**	$127,500.00
		Driveway	Gravel
		Fence	0

Building Number	3	**Kitchens**	0
Description	GARAGE	**Dining Rooms**	0
Residence Type	None	**Living Rooms**	0
Comm Type		**Family Rooms**	0
Mobile Home Type		**Bedrooms**	0
Year Built	0	**Full Baths**	0
Effective Age	0	**Half Baths**	0
Ave. Wall Height	0	**Other Rooms**	0
Structure	None	**Total Rooms**	0
Number of Stories	0	**Living Sq Ft**	0
Exterior	Vinyl	**Basement Sq Ft**	0
Foundation	Slab	**Fireplaces**	0
Construction Type	None	**Water**	N
Construction Quality	Average/Standard	**Supplemental Heat**	None
Building Condition	Good/Average	**Mobile Home Model**	
Roof Type	RY-None	**Mobile Home Manufacturer**	
Roof Cover	RF-Asphalt Shingles	**MH Skirt Foundation**	
Roof Pitch	RP-None	**Heat**	N
Basement Type	BT-None	**Heat Source**	None
Basement Finish	None	**Heat Type**	None
Basement Size	BS-None	**Air Conditioning**	N
Garage/Carport	Garage	**AC/Type**	None
Garage Size	2 Car	**Special Improvements**	N
Garage Type	Detached Garage	**Fire Alarm**	N
Garage Exterior	None	**Sprinklers**	N
Width	28	**Porch/Deck**	
Length	34	**Porch Sq Ft**	0
Garage Sq Ft	952	**Deck Sq Ft**	0
Pool		**Concrete Sq Ft**	0
Pool Size	0	**Farm Bldg Type**	
Tennis Courts		**Value**	$8,900.00
		Driveway	Gravel
		Fence	0

Building Number	4	**Kitchens**	0
Description	MET BLDG	**Dining Rooms**	0
Residence Type	None	**Living Rooms**	0
Comm Type		**Family Rooms**	0
Mobile Home Type		**Bedrooms**	0
Year Built	0	**Full Baths**	0
Effective Age	0	**Half Baths**	0
Ave. Wall Height	0	**Other Rooms**	0
Structure	None	**Total Rooms**	0
Number of Stories	0	**Living Sq Ft**	0
Exterior	Metal	**Basement Sq Ft**	0
Foundation	None	**Fireplaces**	0
Construction Type	None	**Water**	Y
Construction Quality	Average/Standard	**Supplemental Heat**	None
Building Condition	Good/Average	**Mobile Home Model**	
Roof Type	RY-None	**Mobile Home Manufacturer**	
Roof Cover	RF-Metal	**MH Skirt Foundation**	
Roof Pitch	RP-None	**Heat**	N
Basement Type	BT-None	**Heat Source**	None
Basement Finish	None	**Heat Type**	None
Basement Size	BS-None	**Air Conditioning**	N
Garage/Carport		**AC/Type**	None
Garage Size		**Special Improvements**	N
Garage Type		**Fire Alarm**	N
Garage Exterior		**Sprinklers**	N
Width	40	**Porch/Deck**	
Length	60	**Porch Sq Ft**	0
Garage Sq Ft	0	**Deck Sq Ft**	0
Pool		**Concrete Sq Ft**	0
Pool Size	0	**Farm Bldg Type**	None
Tennis Courts		**Value**	$12,600.00
		Driveway	Gravel
		Fence	0

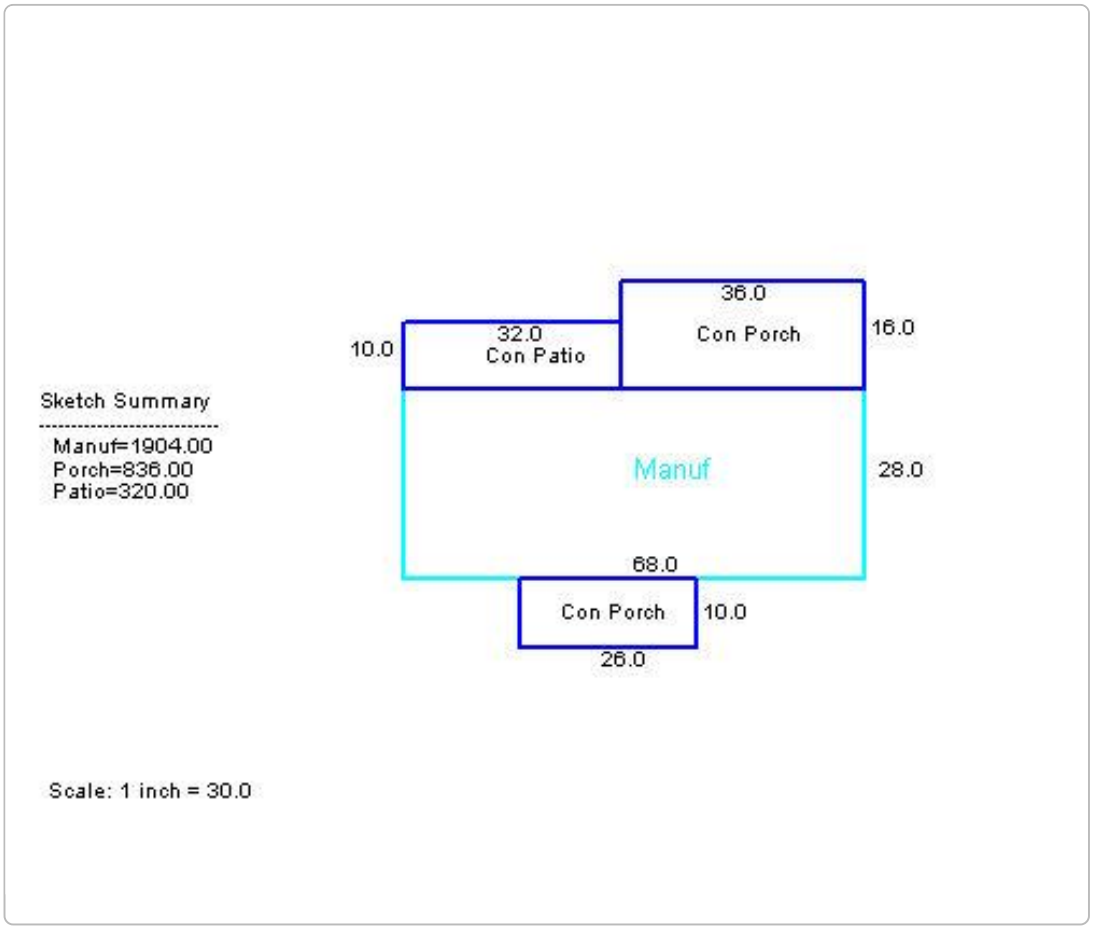
Building Notes: 800 sq ft concrete, rest gravel

Sales

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
3/4/2022	$169,000	314	753 JOINTLY	SHELTON IKE JAMERSON & KAYLA DAWN	FARMER KATHY R
10/20/2016	$1	297	338	FARMER KATHY R	FARMER WILLIAM R & KATHY
4/24/2003	$1	249	025	FARMER WILLIAM R & KATHY	DOROTHY FARMER

Photos

Sketches



Webster County, KY PVA

Summary

Parcel Number	069-021-001
Account Number	85291
Location Address	4896 ST RT 630
Description	21.32 ACRES & 4 POULTRY HOUSES/BLDGS (Note: Not to be used on legal documents)
Class	FARM (20)
Tax District	01 Webster County

View Map

Owner

SCHROCK MERVIN & SARAH E
4840 ST RT 630
SLAUGHTERS, KY 42456

Land Characteristics

Condition	Average	**Topography**	Rolling
Plat Book/Page		**Drainage**	Natural
Subdivision	COUNTY	**Flood Hazard**	
Lot	0	**Zoning**	No Zoning
Block	0	**Electric**	Yes
Acres	21.32	**Water**	Yes
Front	0	**Gas**	No
Depth	0	**Sewer**	No
Lot Size	0x0	**Road**	
Lot Sq Ft	928699	**Sidewalks**	No
Shape	Typical	**Information Source**	

Tax Roll Information

		2025 Working Value	2024 Certified Value
+	Land Value	$16,200	$16,200
+	Improvement Value	$362,200	$362,200
=	Total Taxable Value	**$378,400**	**$378,400**
-	Exemption Value	$0	$0
=	Net Taxable Value	**$378,400**	**$378,400**
+	Land FCV	$85,500	$85,500
+	Improvement FCV	$619,400	$619,400
=	Total FCV	**$704,900**	**$704,900**
	Exemption	Homestead: No	Homestead: No

Improvement Information

Building Number	1	**Kitchens**	0
Description	#4 CHICKEN HOUSES $84,000 EACH	**Dining Rooms**	0
Residence Type	None	**Living Rooms**	0
Comm Type		**Family Rooms**	0
Mobile Home Type		**Bedrooms**	0
Year Built	1996	**Full Baths**	0
Effective Age	0	**Half Baths**	0
Ave. Wall Height	0	**Other Rooms**	0
Structure	None	**Total Rooms**	0
Number of Stories	0	**Living Sq Ft**	0
Exterior	Metal	**Basement Sq Ft**	0
Foundation	None	**Fireplaces**	0
Construction Type	None	**Water**	N
Construction Quality		**Supplemental Heat**	None
Building Condition	None	**Mobile Home Model**	
Roof Type	RY-None	**Mobile Home Manufacturer**	
Roof Cover	RF-Metal	**MH Skirt Foundation**	
Roof Pitch	RP-None	**Heat**	N
Basement Type	BT-None	**Heat Source**	None
Basement Finish	None	**Heat Type**	None
Basement Size	BS-None	**Air Conditioning**	N
Garage/Carport		**AC/Type**	None
Garage Size		**Special Improvements**	N

Garage Type	
Garage Exterior	
Width	43
Length	460
Garage Sq Ft	0
Pool	
Pool Size	0
Tennis Courts	

Fire Alarm	N
Sprinklers	N
Porch/Deck	
Porch Sq Ft	0
Deck Sq Ft	0
Concrete Sq Ft	0
Farm Bldg Type	None
Value	$336,000.00
Driveway	Gravel
Fence	0

Building Notes: 43 X 460 EACH

Building Number	2
Description	BLDG/SHED
Residence Type	None
Comm Type	
Mobile Home Type	
Year Built	2022
Effective Age	0
Ave. Wall Height	0
Structure	None
Number of Stories	0
Exterior	Metal
Foundation	Slab
Construction Type	None
Construction Quality	
Building Condition	None
Roof Type	RY-None
Roof Cover	RF-Metal
Roof Pitch	RP-None
Basement Type	BT-None
Basement Finish	None
Basement Size	BS-None
Garage/Carport	
Garage Size	
Garage Type	
Garage Exterior	
Width	48
Length	88
Garage Sq Ft	0
Pool	
Pool Size	0
Tennis Courts	

Kitchens	0
Dining Rooms	0
Living Rooms	0
Family Rooms	0
Bedrooms	0
Full Baths	0
Half Baths	0
Other Rooms	0
Total Rooms	0
Living Sq Ft	0
Basement Sq Ft	0
Fireplaces	0
Water	N
Supplemental Heat	None
Mobile Home Model	
Mobile Home Manufacturer	
MH Skirt Foundation	
Heat	N
Heat Source	None
Heat Type	None
Air Conditioning	N
AC/Type	None
Special Improvements	N
Fire Alarm	N
Sprinklers	N
Porch/Deck	
Porch Sq Ft	0
Deck Sq Ft	0
Concrete Sq Ft	0
Farm Bldg Type	None
Value	$2,000.00
Driveway	Gravel
Fence	0

Building Notes: 48 X 32 (D-M-M) 56 X 88 (C-M-M)

Building Number	3
Description	MANURE SHED (D-M-M)
Residence Type	None
Comm Type	
Mobile Home Type	
Year Built	2001
Effective Age	0
Ave. Wall Height	0
Structure	None
Number of Stories	0
Exterior	Metal
Foundation	None
Construction Type	None
Construction Quality	
Building Condition	None
Roof Type	RY-None
Roof Cover	RF-Metal
Roof Pitch	RP-None
Basement Type	BT-None
Basement Finish	None
Basement Size	BS-None
Garage/Carport	
Garage Size	
Garage Type	
Garage Exterior	
Width	50
Length	80
Garage Sq Ft	0
Pool	
Pool Size	0
Tennis Courts	

Kitchens	0
Dining Rooms	0
Living Rooms	0
Family Rooms	0
Bedrooms	3
Full Baths	2
Half Baths	0
Other Rooms	0
Total Rooms	5
Living Sq Ft	0
Basement Sq Ft	0
Fireplaces	0
Water	N
Supplemental Heat	None
Mobile Home Model	
Mobile Home Manufacturer	
MH Skirt Foundation	
Heat	N
Heat Source	None
Heat Type	None
Air Conditioning	N
AC/Type	None
Special Improvements	N
Fire Alarm	N
Sprinklers	N
Porch/Deck	
Porch Sq Ft	0
Deck Sq Ft	0
Concrete Sq Ft	0
Farm Bldg Type	None
Value	$2,000.00
Driveway	Gravel
Fence	0

Sales

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
11/16/2012	$355,000	283	435	SCHROCK MERVIN & SARAH E	JACOB DERKSEN & OTHERS
6/5/2012	$1	282	032	JACOB DERKSEN & OTHERS	DEBRA HERRON (D)
8/28/1998	$0	232	571	DEBRA HERRON (D)	DAVID HERRON (DOC)
12/1/1988	$35,000	201	496	DAVID HERRON (DOC)	VAUGHN & SPRINGFIE

Photos

No data available for the following modules: Sketches.

Webster County, KY PVA

Summary

Parcel Number	069-019-001
Account Number	92168
Location Address	ST RT 630
Description	0.695 ACRES (Note: Not to be used on legal documents)
Class	RESIDENTIAL (10)
Tax District	01 Webster County

View Map

Owner

DUNCAN WANDA FAY
431 DUNCAN LN
HANSON, KY 42413

Land Characteristics

Condition	Average	**Topography**	Not Used
Plat Book/Page		**Drainage**	Natural
Subdivision	COUNTY	**Flood Hazard**	
Lot	0	**Zoning**	No Zoning
Block	0	**Electric**	Yes
Acres	0.70	**Water**	Yes
Front	0	**Gas**	No
Depth	0	**Sewer**	No
Lot Size	0x0	**Road**	
Lot Sq Ft	30274	**Sidewalks**	No
Shape	Typical	**Information Source**	

Tax Roll Information

		2025 Working Value	2024 Certified Value
+	Land Value	$1,000	$1,000
+	Improvement Value	$0	$0
=	Total Taxable Value	**$1,000**	**$1,000**
-	Exemption Value	$0	$0
=	Net Taxable Value	**$1,000**	**$1,000**
	Exemption	Homestead: No	Homestead: No

Improvement Information

Building Number	1	**Kitchens**	0
Description		**Dining Rooms**	0
Residence Type	None	**Living Rooms**	0
Comm Type		**Family Rooms**	0
Mobile Home Type		**Bedrooms**	0
Year Built	0	**Full Baths**	0
Effective Age	0	**Half Baths**	0
Ave. Wall Height	0	**Other Rooms**	0
Structure	None	**Total Rooms**	0
Number of Stories	0	**Living Sq Ft**	0
Exterior	None	**Basement Sq Ft**	0
Foundation	None	**Fireplaces**	0
Construction Type	None	**Water**	N
Construction Quality	Average/Standard	**Supplemental Heat**	None
Building Condition	Good/Average	**Mobile Home Model**	
Roof Type	RY-None	**Mobile Home Manufacturer**	
Roof Cover	RF-None	**MH Skirt Foundation**	
Roof Pitch	RP-None	**Heat**	N
Basement Type	BT-None	**Heat Source**	None
Basement Finish	None	**Heat Type**	None
Basement Size	BS-None	**Air Conditioning**	N
Garage/Carport		**AC/Type**	None
Garage Size		**Special Improvements**	Y
Garage Type		**Fire Alarm**	N
Garage Exterior		**Sprinklers**	N
Width	0	**Porch/Deck**	
Length	0	**Porch Sq Ft**	0

Garage Sq Ft	0	**Deck Sq Ft**	0
Pool		**Concrete Sq Ft**	0
Pool Size	0	**Farm Bldg Type**	
Tennis Courts		**Value**	$0.00
		Driveway	Unimproved
		Fence	0

Sales

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
11/7/2017	$1,000	301	410 JOINTLY	DUNCAN CHESTER & WANDA FAY	DERKSEN ABRAHAM & RACHEL F

Photos

No data available for the following modules: Sketches.

Webster County, KY PVA

Summary

Parcel Number	069-021-000
Account Number	92169
Location Address	ST RT 630
Description	1.597 ACRES (Note: Not to be used on legal documents)
Class	RESIDENTIAL (10)
Tax District	01 Webster County

View Map

Owner

DUNCAN WANDA FAY
431 DUNCAN LN
HANSON, KY 42413

Land Characteristics

Condition	Average	**Topography**	Not Used
Plat Book/Page		**Drainage**	Natural
Subdivision	COUNTY	**Flood Hazard**	
Lot	0	**Zoning**	No Zoning
Block	0	**Electric**	Yes
Acres	1.60	**Water**	Yes
Front	0	**Gas**	No
Depth	0	**Sewer**	No
Lot Size	0x0	**Road**	
Lot Sq Ft	69565	**Sidewalks**	No
Shape	Typical	**Information Source**	

Tax Roll Information

		2025 Working Value	2024 Certified Value
+	Land Value	$1,000	$1,000
+	Improvement Value	$0	$0
=	Total Taxable Value	**$1,000**	**$1,000**
-	Exemption Value	$0	$0
=	Net Taxable Value	**$1,000**	**$1,000**
	Exemption	Homestead: No	Homestead: No

Improvement Information

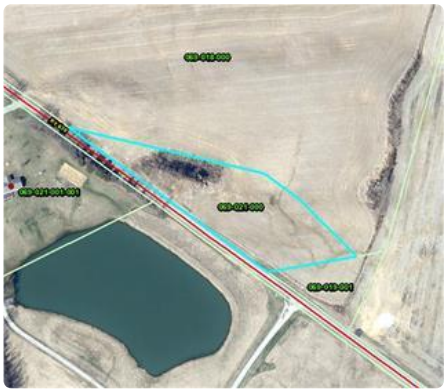
Building Number	1	**Kitchens**	0
Description		**Dining Rooms**	0
Residence Type	None	**Living Rooms**	0
Comm Type		**Family Rooms**	0
Mobile Home Type		**Bedrooms**	0
Year Built	0	**Full Baths**	0
Effective Age	0	**Half Baths**	0
Ave. Wall Height	0	**Other Rooms**	0
Structure	None	**Total Rooms**	0
Number of Stories	0	**Living Sq Ft**	0
Exterior	None	**Basement Sq Ft**	0
Foundation	None	**Fireplaces**	0
Construction Type	None	**Water**	N
Construction Quality	Average/Standard	**Supplemental Heat**	None
Building Condition	Good/Average	**Mobile Home Model**	
Roof Type	RY-None	**Mobile Home Manufacturer**	
Roof Cover	RF-None	**MH Skirt Foundation**	
Roof Pitch	RP-None	**Heat**	N
Basement Type	BT-None	**Heat Source**	None
Basement Finish	None	**Heat Type**	None
Basement Size	BS-None	**Air Conditioning**	N
Garage/Carport		**AC/Type**	None
Garage Size		**Special Improvements**	Y
Garage Type		**Fire Alarm**	N
Garage Exterior		**Sprinklers**	N
Width	0	**Porch/Deck**	
Length	0	**Porch Sq Ft**	0

Garage Sq Ft	0	**Deck Sq Ft**	0
Pool		**Concrete Sq Ft**	0
Pool Size	0	**Farm Bldg Type**	
Tennis Courts		**Value**	$0.00
		Driveway	Unimproved
		Fence	0

Sales

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
11/7/2017	$1,000	301	414 JOINTLY	DUNCAN CHESTER & WANDA FAY	SCHROCK MERVIN & SARAH E
6/27/2016	$1	297	170	DERKSEN ABRAHAM & RACHEL F (TRUST)	DERKSEN ABE

Photos



No data available for the following modules: Sketches.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ESTATE)
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DIXON, KY 42409
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Postage
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IRREVOCABLE TRUST C/O LORI
DAVIS, TRUSTEE
972 ROSCOE VEAZEY RD
MANITOU, KY 42436
Postmark Here
APR 16 2025
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Certified Mail Fee
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy)
Return Receipt (electronic)
Certified Mail Restricted Delivery
Adult Signature Required
Adult Signature Restricted Delivery
Postage
SCHROCK MERVIN & SARAH E
4840 ST RT 630
SLAUGHTERS, KY 42456
Postmark Here
PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

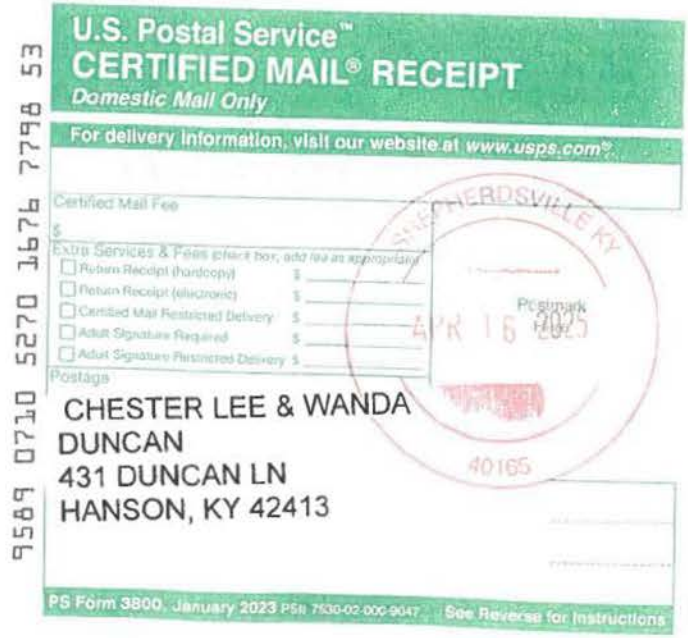

9589 0710 5270 1676 7799 07
U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.
Certified Mail Fee
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy)
Return Receipt (electronic)
Certified Mail Restricted Delivery
Adult Signature Required
Adult Signature Restricted Delivery
Postage
LANHAM MINDY M & DUSTIN S
8767 ST RT 120 E
SLAUGHTERS, KY 42456
Postmark Here
APR 16 2025
PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions


9589 0710 5270 1676 7799 14
U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.
Certified Mail Fee
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy)
Return Receipt (electronic)
Certified Mail Restricted Delivery
Adult Signature Required
Adult Signature Restricted Delivery
Postage
KNOWLES SIDNEY DARRELL &
CAROLYN JEAN
PO BOX 27
SLAUGHTERS, KY 42456
Postmark Here
PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions


9589 0710 5270 1676 7796 79
U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.
Certified Mail Fee
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy)
Return Receipt (electronic)
Certified Mail Restricted Delivery
Adult Signature Required
Adult Signature Restricted Delivery
Postage
DUNCAN WANDA
431 DUNCAN LN
HANSON, KY 42413
SHEPHERDSVILLE KY
Postmark Here
40165
PS Form 3800, January 2023 PSN 7530-02-000-9047
See Reverse for Instructions


9589 0710 5270 1676 7796 77
U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.
Certified Mail Fee
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy)
Return Receipt (electronic)
Certified Mail Restricted Delivery
Adult Signature Required
Adult Signature Restricted Delivery
Postage
DERKSEN ABRAHAM & RACHEL F
FAMILY LIVING REVOCABLE
TRUST
1206 BECKLEY OSBORNE RD
SEBREE, KY 42455
SHEPHERDSVILLE KY
Postmark Here
40165
PS Form 3800, January 2023 PSN 7530-02-000-9047
See Reverse for Instructions


9589 0710 5270 1676 7796 86
U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.
Certified Mail Fee
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy)
Return Receipt (electronic)
Certified Mail Restricted Delivery
Adult Signature Required
Adult Signature Restricted Delivery
Postage
DUNCAN WANDA FAY
431 DUNCAN LN
HANSON, KY 42413
SHEPHERDSVILLE KY
APR 16 2025
Postmark Here
40165
PS Form 3800, January 2023 PSN 7530-02-000-9047
See Reverse for Instructions


9589 0710 5270 1676 7798 53
U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.
Certified Mail Fee
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy)
Return Receipt (electronic)
Certified Mail Restricted Delivery
Adult Signature Required
Adult Signature Restricted Delivery
Postage
CHESTER LEE & WANDA
DUNCAN
431 DUNCAN LN
HANSON, KY 42413
SHEPHERDSVILLE KY
APR 16 2025
Postmark Here
40165
PS Form 3800, January 2023 PSN 7530-02-000-9047
See Reverse for Instructions


9589 0710 5270 1676 7798 60
U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.
Certified Mail Fee
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy)
Return Receipt (electronic)
Certified Mail Restricted Delivery
Adult Signature Required
Adult Signature Restricted Delivery
Postage
DERKSEN ABRAHAM & RACHEL
FAMILY REV TRUST
1206 BECKLEY OSBORNE RD
SEBREE, KY 42455
SHEPHERDSVILLE KY
APR 16 2025
Postmark Here
40165
PS Form 3800, January 2023 PSN 7530-02-000-9047
See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

DUNCAN WANDA
431 DUNCAN LN
HANSON, KY 42413

9590 9402 7926 2305 8924 47

2. Article Number *(Transfer from service label)*
9589 0710 5270 1676 7796 79

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Wanda Duncan ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Wanda Duncan | C. Date of Delivery 4-19-25

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☑ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

DUNCAN WANDA FAY
431 DUNCAN LN
HANSON, KY 42413

9590 9402 7926 2305 8924 30

2. Article Number *(Transfer from service label)*
9589 0710 5270 1676 7796 86

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Wanda Duncan ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Wanda Duncan | C. Date of Delivery 4-19-25

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☑ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

HORSCHEL DEBORAH (LIFE ESTATE)
204 VANDERBURG WINSTEAD RD
DIXON, KY 42409

9590 9402 7926 2305 8922 87

2. Article Number *(Transfer from service label)*
9589 0710 5270 1676 7798 46

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Deborah Horschel ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Deborah Horschel | C. Date of Delivery 4/19/25

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☑ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

SHELTON IKE JAMERSON &
KAYLA DAWN
7999 ST RT 120 E
NEBO, KY 42441

9590 9402 7926 2305 8922 94

2. Article Number *(Transfer from service label)*
9589 0710 5270 1676 7798 39

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☒ Addressee

B. Received by *(Printed Name)*: Kayla Shelton
C. Date of Delivery: 4-18-25

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☑ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CHESTER LEE & WANDA
DUNCAN
431 DUNCAN LN
HANSON, KY 42413

9590 9402 7926 2305 8922 70

2. Article Number *(Transfer from service label)*
9589 0710 5270 1676 7798 53

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)*: Wanda Duncan
C. Date of Delivery: 4-19-25

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☑ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

OAKLEY GARY & BRENDA
IRREVOCABLE TRUST C/O LORI
DAVIS, TRUSTEE
972 ROSCOE VEAZEY RD
MANITOU, KY 42436

9590 9402 7926 2305 8923 31

2. Article Number *(Transfer from service label)*
9589 0710 5270 1676 7798 91

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)*: William Davis
C. Date of Delivery: 4/21/25

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☑ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

DERKSEN ABRAHAM & RACHEL
FAMILY REV TRUST
1206 BECKLEY OSBORNE RD
SEBREE, KY 42455

9590 9402 7926 2305 8922 63

2. Article Number (Transfer from service label)
9589 0710 5270 1676 7798 60

COMPLETE THIS SECTION ON DELI

A. Signature
X

B. Received by (Printed Name)

D. Is delivery address different from
If YES, enter delivery address

3. Service Type
- ☐ Adult Signatur
- ☐ Adult Signatu
- ☑ Certified Ma
- ☐ Certified M
- ☐ Collect or
- ☐ Co

PS Form 3811, July 2020 PSN 7530-02-000-9053

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

DERKSEN ABRAHAM & RACHEL F
FAMILY LIVING REVOCABLE
TRUST
1206 BECKLEY OSBORNE RD
SEBREE, KY 42455

9590 9402 7926 2305 8922 56

2. Article Number (Transfer from service label)
9589 0710 5270 1676 7798 77

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X

☐ Agent
☐ Addresse

B. Received by (Printed Name)

C. Date of Deliver

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☑ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restric Delivery
- ☐ Signature Confirmation
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Recei

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SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

SCHROCK MERVIN & SARAH E
4840 ST RT 630
SLAUGHTERS, KY 42456

9590 9402 7926 2305 8923 00

2. Article Number (Transfer from service label)
9589 0710 5270 1676 7799 21

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X

☐ Agent
☐ Address

B. Received by (Printed Name)

C. Date of Deliv

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☑ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Rest Delivery
- ☐ Signature Confirmati
- ☐ Signature Confirmati Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Rec

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

LANHAM MINDY M & DUSTIN S
8767 ST RT 120 E
SLAUGHTERS, KY 42456

9590 9402 7926 2305 8923 24

2. Article Number *(Transfer from service label)*
9589 0710 5270 1676 7799 07

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Dustin Lanham ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Dustin Lanham | C. Date of Delivery 4-21-25

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☑ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

KNOWLES SIDNEY DARRELL &
CAROLYN JEAN
PO BOX 27
SLAUGHTERS, KY 42456

9590 9402 7926 2305 8923 17

2. Article Number *(Transfer from service label)*
9589 0710 5270 1676 7799 14

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Cynthia Mallory ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Cynthia Mallory | C. Date of Delivery 4-19-25

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☑ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

EXHIBIT K

COPY OF PROPERTY OWNER NOTIFICATION

PIKE LEGAL GROUP PLLC
1578 Highway 44 East, Unit 6
PO Box 369
Shepherdsville, KY 40165-0369
Phone: 502-955-4400
Fax: 502-543-4410

VIA CERTIFIED MAIL

Notice of Proposed Construction of Wireless Communications Facility

Dear Landowner:

APC Towers IV, LLC, a Delaware limited liability company, and Cellco Partnership, a Delaware general partnership d/b/a Verizon Wireless are filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at State Route 630, Slaughters, Kentucky 42456 (37° 28' 25.38" North latitude, 87° 37' 04.30" West longitude). The proposed facility will include a 295-foot tower with a 5-foot lightning arrestor attached at the top for a total height of 300-feet, plus related ground facilities. This facility is needed to provide improved service 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 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 2025-00120 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. Verizon Wireless radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact us toll free at (800) 516-4293 if you have any comments or questions about this proposal. The Applicants site name is EV Heartland Academy.

Sincerely,
David A. Pike
Attorney for Applicants

enclosures


630
Day Cemetery
Heartland Academy
Newton Cemetery
630
120
630
120
120
Deer Creek

EXHIBIT L

COPY OF COUNTY JUDGE/EXECUTIVE NOTICE

PIKE LEGAL GROUP PLLC
1578 Highway 44 East, Unit 6
PO Box 369
Shepherdsville, KY 40165-0369
Phone: 502-955-4400
Fax: 502-543-4410

VIA CERTIFIED MAIL

Stephen R. Henry
County Judge Executive
25 US Hwy 41A
P.O. Box 155
Dixon, KY 42409

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2025-00120

Dear Judge/Executive:

APC Towers IV, LLC, a Delaware limited liability company, and Cellco Partnership d/b/a Verizon Wireless are filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at State Route 630, Slaughters, Kentucky 42456 (37° 28' 25.38" North latitude, 87° 37' 04.30" West longitude). The proposed facility will include a 295-foot tower with a 5-foot lightning arrestor attached at the top for a total height of 300-feet, plus related ground facilities. This facility is needed to provide improved service 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 2025-00120 in any correspondence sent in connection with this matter.

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

Sincerely,
David A. Pike
Attorney for Applicants
enclosures


630
Day Cemetery
Heartland Academy
Newton Cemetery
630
120
630
120
120
Deer Creek

9589 0710 5270 1676 7796 93

U.S. Postal Service
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
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Cit

SHEPHERDSVILLE KY
APR 16 2025
40165

Stephen R. Henry
County Judge Executive
25 US Hwy 41A
P.O. Box 155
Dixon, KY 42409

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Stephen R. Henry
County Judge Executive
25 US Hwy 41A
P.O. Box 155
Dixon, KY 42409

9590 9402 7926 2305 8924 23

2. Article Number *(Transfer from service label)*
9589 0710 5270 1676 7796 93

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X
☐ Agent
☑ Addressee

B. Received by *(Printed Name)*
JArnett

C. Date of Delivery
4-21-25

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☑ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

EXHIBIT M

COPY OF POSTED NOTICES,
NEWSPAPER NOTICE ADVERTISEMENT TEAR SHEET

SITE NAME: EV HEARTLAND ACADEMY
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.

APC Towers IV, LLC, a Delaware limited liability company, 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 2025-00120 in your correspondence.

APC Towers IV, LLC, a Delaware limited liability company, 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 2025-00120 in your correspondence.

Winning the war on weeds

VICKI SHARDRICK

Webster County Farmers' Market is celebrating its 10th anniversary in 2025, marking a decade of providing fresh, locally produced food to the community. Since its inception in 2015, the market has grown from six vendors to twelve, all certified KY Proud producers. This growth reflects the increasing demand for local products and the market's commitment to offering new and diverse items each year.

Farmers' markets play a crucial role in communities by offering families the opportunity to enjoy fresh, locally produced food. This not only supports local agriculture but also ensures that consumers have access to high-quality, nutritious options. The Webster County Farmers' Market exemplifies these benefits, providing a wide variety of fresh fruits and vegetables, beef retail cuts, local honey, baked goods, flowers, plants, and more. Over the past ten years, customers' favorites have included strawberries, tomatoes, sweet corn, watermelons, cinnamon rolls, and pies.

By shopping at farmers' markets, consumers directly support local farmers, helping to sustain their livelihoods and promote sustainable agricultural practices. The Webster County Farmers' Market is proud to feature vendors who are certified KY Proud producers, ensuring that all products meet high standards of quality and local origin.

The Webster County Farmers' Market is committed to making fresh food accessible to everyone. The market accepts Senior Farmers' Market Nutrition Program (SFMNP) and WIC Farmers' Market benefits, and has been awarded the Kentucky Double Dollars Grant, which allows them to offer coupons to SFMNP customers. These programs help ensure that all members of the community can enjoy the benefits of fresh, local food.

Market Details

The Webster County Farmers' Market is open on Wednesdays from 11:00 AM to 2:00 PM on the courthouse lawn in Dixon. Opening day for the 2025 season is April 30th. Additionally, the market plans to be open on Saturday mornings in Sebree, KY, across from the Dairy Bar restaurant, with the opening day to be announced.

For updates and more information, be sure to follow the Webster County Farmers' Market on Facebook.

Educational programs of the Cooperative Extension Service serve all people regardless of economic or social status and will not discriminate on the basis of race, color, ethnic origin, national origin, creed, religion, political belief, sex, sexual orientation, gender identity, gender expressions, pregnancy, marital status, genetic information, age, veteran status, or physical or mental disability.

Source: Rick Durham, Department of Horticulture professor

Source: Nichole Huff, extension specialist for family resource management

Source: Ellen Crocker, Department of Forestry and Natural Resources assistant professor

Source: Jennifer Hunter, UK financial extension specialist

Extension service reaffirms mission; honors agents

BY CHRISTOPHER CARNEY
UNIVERSITY OF KENTUCKY

At the recent 2025 Kentucky State Extension Conference, a joint event by the University of Kentucky Martin-Gatton College of Agriculture, Food and Environment Cooperative Extension Service and Kentucky State University, hundreds of extension agents, specialists and staff came together to embrace the deep, locally rooted extension mission — improving the lives of Kentuckians in all 120 counties.

Themed "Connect, Cultivate and Celebrate," the conference was an opportunity for extension professionals to discuss, showcase and recognize how extension efforts are tackling the biggest challenges in

SEE SERVICE/PAGE A7

WEBSTER COUNTY DISTRICT COURT

Jeffrey Belt — rear license not illuminated, DUI 1st offense, 3rd degree possession of a controlled substance, possess drug paraphernalia, controlled substance prescription not in original container, 1st degree trafficking in a controlled substance 2nd or greater offense; preliminary hearing 4/22

Christopher R. Brantley — driving on expired license, DUI 2nd offense, possession of open alcoholic beverage container in vehicle; pretrial conference 4/22

Gregorio Angel Francisco Juan — leaving scene of accident/failure to assist, open alcoholic beverage container in vehicle, DUI under 21 years of age, failure to produce insurance card; pretrial conference 4/29

Coty Newman — DUI 1st offense, no/expired plates; pretrial conference 4/29

Jacob Preston Shelton — possession of marijuana, possess drug paraphernalia, 1dt degree possession of a controlled substance, nuisance vehicle, no/expired plates, DUI 1st offense; preliminary hearing 4/22

Yohali Aguilar Martinez — speeding 18 mph over limit, instructional permit violation; pretrial conference 5/27

Timothy M. Austin — disregarding traffic regulation 1st offense; failure to appear

Steven Lee Baker — speeding 9 mph over limit, failure to maintain insurance; pay fines and costs, 10 days probated 2 years

Jeriks Chellamkottu — speeding 5 mph over limit, booster seat violation; pay fine and costs

Triston Macade Griffith — speeding 26 mph or more over limit, careless driving, driving too fast for traffic conditions (deferred); pay fines and costs

Tabitha Lynn Adair — possess drug paraphernalia, possession of marijuana, 1st degree trafficking in a controlled substance, rim or frame obscuring plates, 3rd degree trafficking in a controlled substance; preliminary hearing 4/22

Jason Derrick Adams — public intoxication, 2nd degree disorderly conduct; pretrial conference 4/22

Kimberly D. Belt — 3rd degree criminal trespassing, resisting arrest, 2nd degree disorderly conduct; pretrial conference 4/22

Kenzel Copeland — 2 counts menacing, resisting arrest, 2nd degree disorderly conduct, public intoxication, 3rd degree terroristic threatening; pretrial conference 4/22

Davin Day — flagrant non-support; failure to appear, bench warrant issued

Aaron Daniel Gamblin — entry on land to hunt/fish without consent; pretrial conference 6/10

Amanda Gamblin — entry on land to hunt/fish without consent; pretrial conference 6/10

Kylar Dayton Green — speeding 20 mph over limit, possession of marijuana, possess drug paraphernalia; pay fine and costs, refer to MEP

Christian Lee Langston — 4th degree assault; pretrial conference 5/ 6

Elizabeth Rigdon — 4 counts 2nd degree wanton endangerment; pretrial conference 5 /6

Javen T. Spears — 1st degree possession of a controlled substance, possess drug paraphernalia, 3rd degree possession of a controlled substance; preliminary hearing 4/29

Graham C. Watson — 1st degree possession of a controlled substance, possess drug paraphernalia, 3rd degree possession of a controlled substance; preliminary hearing 4/29

Lindsey Carter — 4th degree assault; pretrial conference 4/29

Lindsey Carter — 4th degree assault, 3rd degree terroristic threatening; pretrial conference 4/29

Analu Kaoao Deaton — DUI 2nd offense; pretrial conference 8/26, jury trial 9/5

Hailey M. Fields — license to be in possession; pay fine and costs, 30 days probated 2 years

Anthony W. Jones — 4th degree assault; pay fine and costs, 365 days probated 2 years

Kaleb Joseph Wilson — license to be in possession; pay fine and costs, 30 days probated 2 years

Larry J. Wilson — flagrant non-support; waived preliminary hearing and grand jury, refer to circuit court

NOTICE OF PUBLIC HEARING

The Public Service Commission of Kentucky issued an order on January 21, 2025, scheduling a hearing to be held on May 13, 2025, at 9 a.m., Eastern Daylight Time, in the Richard Raff Hearing Room at the offices of the Public Service Commission located at 211 Sower Boulevard in Frankfort, Kentucky, for Case No. 2024-00326. This is an examination of the Electronic 2024 Joint Integrated Resource Plan of Louisville Gas and Electric Company and Kentucky Utilities Company.

This hearing will be streamed live and may be viewed on the PSC website, psc.ky.gov.

Public comments may be made at the beginning of the hearing. Those wishing to make oral public comments may do so by following the instructions listed on the PSC website, psc.ky.gov.

Louisville Gas and Electric Company and
Kentucky Utilities Company
2701 Eastpoint Parkway
Louisville, Kentucky 40223

LEGAL NOTICE

NOTICE

APC Towers IV, LLC, a Delaware limited liability company, and Cellco Partnership, a Delaware general partnership d/b/a Verizon Wireless are filing an application with the Kentucky Public Service Commission ("PSC") for approval to construct a new communications facility located at State Route 630, Slaughters, Kentucky 42456 (37° 28' 25.38" North latitude, 87° 37' 04.30" 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 2025-00120 in any correspondence sent in connection with this matter.

NOTICE TO CUSTOMERS OF KENTUCKY UTILITIES COMPANY

RECOVERY BY ENVIRONMENTAL SURCHARGE OF KENTUCKY UTILITIES COMPANY'S 2025 ENVIRONMENTAL COMPLIANCE PLAN

PLEASE TAKE NOTICE that in an April 30, 2025 Application, Kentucky Utilities Company ("KU") is seeking approval by the Kentucky Public Service Commission ("Commission") in Case No. 2025-00105, pursuant to Kentucky Revised Statute 278.183, of an amended compliance plan ("2025 Plan"). (Collectively, KU's Application and supporting testimony and exhibits are KU's "tariff filing.") If approved, KU will begin recovering capital costs associated with a new pollution control facility in the 2025 Plan under KU's existing Electric Rate Schedule ECR (also known as the Environmental Surcharge tariff) through an increase in the environmental surcharge on customers' bills beginning in December 2025.

KU filed an application with the Commission on February 28, 2025, in Case No. 2025-00045 seeking approval to construct a selective catalytic reduction system at the Ghent generating station to reduce nitrogen oxide (NOx) emissions, which are a precursor to ozone. In Case No. 2025-00105, KU is seeking an order approving the 2025 Plan to recover the costs of this new pollution control facility through its Environmental Surcharge tariff. This project will help ensure ongoing compliance with regulations issued under the federal Clean Air Act as amended, including the National Ambient Air Quality Standards for ozone.

The estimated total capital cost of this new pollution control facility is $152.3 million. Additionally, KU is requesting recovery of future incremental capital and operation and maintenance expenses associated with this new pollution control facility. KU is also asking to recover the cost of publishing this customer notice through the Environmental Surcharge over 12 months and to have Environmental Surcharge recovery of future Commission-approved administrative expenses, including customer notice costs.

Beginning in December 2025, the initial bill impact for KU's Group 1 customers is estimated to be a 0.01% increase with a maximum increase of 0.81% in 2029. Group 1 includes Rate Schedules Residential Service (RS), Residential Time-of-Day Energy Service (RTODE), Residential Time-of-Day Demand Service (RTODD), Volunteer Fire Department Service (VFD), All Electric School (AES), and all Lighting Rates (i.e., LS, RLS, LE, and TE).

RS and VFD customers using 1,085 kWh/month could expect a monthly increase of $0.01 up to $1.09. RTODE customers using 1,043 kWh/month could expect a monthly increase of $0.01 up to $1.14. RTODD customers using 987 kWh/month could expect a monthly increase of $0.02 up to $1.80. AES customers using 25,620 kWh/month could expect a monthly increase of $0.30 up to $24.28. LS and RLS customers could expect a monthly increase of $0.00 up to $0.12. LE customers using 2,473 kWh/month could expect a monthly increase of $0.02 up to $1.59. TE customers using 147 kWh/month could expect a monthly increase of $0.00 up to $0.15.

Beginning in December 2025, the initial bill impact for KU's Group 2 customers is estimated to be a 0.01% increase with a maximum increase of 1.10% in 2029. Group 2 includes Rate Schedules General Service (GS), General Time-of-Day Energy Service (GTODE), General Time-of-Day Demand Service (GTODD), Power Service (PS), Time-of-Day Secondary Service (TODS), Time-of-Day Primary Service (TODP), Retail Transmission Service (RTS), Fluctuating Load Service (FLS), and Outdoor Sports Lighting Service (OSL).

GS customers using 1,657 kWh/month could expect a monthly increase of $0.03 up to $2.41. GTODD customers using 19,652 kWh/month could expect a monthly increase of $0.31 up to $25.26. PS-Secondary customers using 30,434 kWh/month could expect a monthly increase of $0.39 up to $32.35. PS-Primary customers using 35,028 kWh/month could expect a monthly increase of $0.45 up to $36.82. TODS customers using 189,538 kWh/month could expect a monthly increase of $1.54 up to $126.82. TODP customers using 1,242,574 kWh/month could expect a monthly increase of $8.25 up to $678.42. RTS customers using 7,387,224 kWh/month could expect a monthly increase of $38.91 up to $3,199.31. FLS-Transmission customers using 44,229,667 kWh/month could expect a monthly increase of $237.46 up to $19,525.53. OSL-Secondary customers using 4,827 kWh/month could expect a monthly increase of $0.17 up to $13.87.

The Application described in this Notice is proposed by KU, but the Commission may issue an order resulting in an environmental surcharge for customers other than the environmental surcharge described in this Notice.

Comments regarding KU's 2025 Plan and Application may be submitted to the Commission through its website or by mail to the Public Service Commission, Post Office Box 615, Frankfort, Kentucky 40602.

Any person may submit a timely written request for intervention to the Public Service Commission, Post Office Box 615, Frankfort, Kentucky 40602, establishing the grounds for the request including the status and interest of the party. If the Commission does not receive a written request for intervention within thirty (30) days of the initial publication of this Notice, the Commission may take final action on the Application.

Any person may examine KU's tariff filing at the Commission's offices located at 211 Sower Boulevard, Frankfort, Kentucky, Monday through Friday, 8:00 a.m. to 4:30 p.m., or through the Commission's website at http://psc.ky.gov or KU's website (http://www.lge-ku.com) after KU makes its tariff filing on April 30, 2025. KU has requested a deviation from the requirement to make the tariff filing available at its office at One Quality Street, Lexington, Kentucky 40507. If the Commission denies that request, KU will make the tariff filing available at its office upon request by any person.

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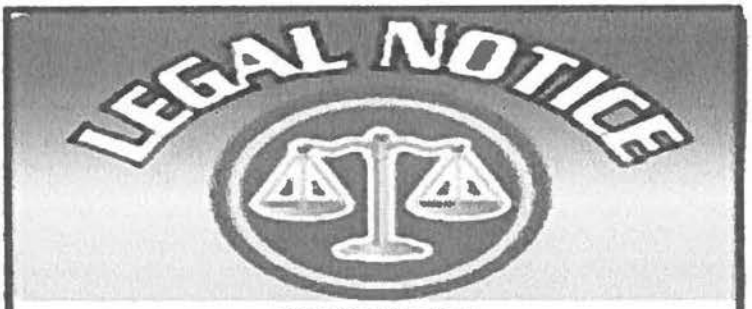

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EXHIBIT N

COPY OF RADIO FREQUENCY DESIGN SEARCH AREA


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