

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

In the Matter of:

THE APPLICATION OF )  
APC TOWERS IV, LLC, A DELAWARE )  
LIMITED LIABILITY COMPANY )  
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC ) CASE NO.: 2024-00091  
CONVENIENCE AND NECESSITY TO CONSTRUCT )  
A WIRELESS COMMUNICATIONS FACILITY )  
IN THE COMMONWEALTH OF KENTUCKY )  
IN THE COUNTY OF MARSHALL )

SITE NAME: EV SHARPE

\* \* \* \* \*

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

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

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

1. The complete name and address of the Applicants is: APC Towers IV, LLC, a Delaware limited liability company, having an address of 8601 Six Forks Road, Suite 250, Raleigh, NC 27615.

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 on March 3, 2022. APC Towers IV's Certificate of Formation and Certificate of Good standing issued by the State of Delaware are attached as part of **Exhibit A** and hereby incorporated by reference.

4. Applicant attests that they are in good standing in the state in which they are organized and further state that they are authorized to transact business in Kentucky. Copies of Applicants' Certificate of Authorization issued by the Kentucky Secretary of State are attached as part of **Exhibit A** and are hereby incorporated by reference.

5. The Applicant is a utility as defined by KRS 278.010(3)(e). Applicant will own, control, operate or manage the proposed facility and is submitting this application in compliance with 807 KAR 5:063. The proposed facility is designed to accommodate the equipment of Cellco Partnership d/b/a Verizon Wireless and/or Kentucky RSA No. 1 Partnership d/b/a Verizon Wireless. Cellco Partnership and Kentucky RSA No. 1 Partnership operate on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. A copy of these entities' 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. A copy of the FCC Antenna Structure Registration (“ASR”) and a copy of the FCC ASR application are also attached as part of **Exhibit A.**

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 on US Highway 68, Benton, KY 42025 (36° 57' 56.81” North latitude, 88° 26' 54.39” 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 Galon and Nancy Riley pursuant to a Deed recorded at Deed Book 412, Page 1 in the office of the County Clerk. The proposed WCF will consist of a 195-foot tall tower, with an approximately 4-foot tall lightning arrestor attached at the top, for a total height of 199-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. Documentation from the Kentucky Airport Zoning Commission ("KAZC") confirming that a KAZC permit is not required for the proposed tower height at the proposed tower location 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. Applicants, pursuant to a written agreement, have acquired the right to use the WCF site and associated property rights. A copy of the agreement or an abbreviated agreement recorded with the County Clerk is attached as **Exhibit I**.

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 Jeremy Campbell 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 Marshall County PVA records obtained on April 3, 2024 (and re-verified on April 22, 2024) and used to generate the notice list are attached as part of **Exhibit J**.

23. Ten notice letters were sent to the landowners on the notice list at the mailing

addresses shown on the County's PVA records on April 5, 2024. Copies of ten "Certified Mail Receipts" confirming the date on which the letters were sent are attached as part of **Exhibit J**.

24. To date, seven signed United States Postal Service Form 3811 "green cards" have been returned. Copies of the seven returned "green cards" are attached as a part of **Exhibit J**. One notice letter was returned, and a copy of the returned letter is attached as part of **Exhibit J**. One notice letter was "delivered, left with individual" on April 9, 2024 according to the United States Postal Service (USPS) tracking data, which is attached as part of **Exhibit J**. One notice letter is "moving through network" according to USPS tracking data, which is attached as part of **Exhibit J**. There are no unaccountable notices.

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/her 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 will

be published in a newspaper of general circulation in the county in which the WCF is proposed to be located. A copy of the text of the newspaper legal 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.

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](mailto:dpike@pikelegal.com)  
[kbrown@pikelegal.com](mailto: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,



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David A. Pike  
And



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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 Applicant

## LIST OF EXHIBITS

- A - Corporate 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 - FAA
- 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 and Newspaper Notice Advertisement
- N - Copy of Radio Frequency Design Search Area

**EXHIBIT A**  
**CORPORATE DOCUMENTATION & FCC LICENSE**  
**DOCUMENTATION**



# Delaware

Page 1

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](http://corp.delaware.gov/authver.shtml)

## 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

SR# 20240209212

You may verify this certificate online at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

Authentication: 202646751

Date: 01-23-24

**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 22<sup>nd</sup> day of April, 2024, in the 232<sup>nd</sup> year of the Commonwealth.



*Michael G. Adams*

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



**UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
ANTENNA STRUCTURE REGISTRATION**



OWNER: APC Towers, LLC

FCC Registration Number (FRN): 0023897788

<b>APC Towers, LLC</b> <b>8601 Six Forks Road</b> <b>Suite 250</b> <b>RALEIGH, NC 27615</b>	<b>Antenna Structure Registration Number</b> <b>1327645</b>	
	<b>Issue Date</b> <b>04/02/2024</b>	
<b>Location of Antenna Structure</b> <b>7221-7271 US 68</b> <b>Benton, KY 42025</b> <b>County: MARSHALL</b>	<b>Ground Elevation (AMSL)</b>  <b>131.7 meters</b>	
	<b>Overall Height Above Ground (AGL)</b>  <b>60.7 meters</b>	
<b>Latitude</b> <b>36- 57- 56.8 N</b>	<b>Longitude</b> <b>088- 26- 54.4 W</b>	<b>NAD83</b>
<b>Center of Array Coordinates</b>  <b>N/A</b>		<b>Overall Height Above Mean Sea Level (AMSL)</b>  <b>192.4 meters</b>
<b>Type of Structure</b> <b>MTOWER</b> <b>Monopole</b>		
<b>Painting and Lighting Requirements:</b>  <b>FAA Chapters NONE</b>		
<b>Conditions:</b>		

This registration is effective upon completion of the described antenna structure and notification to the Commission. **YOU MUST NOTIFY THE COMMISSION WITHIN 5 DAYS OF COMPLETION OF CONSTRUCTION OR CANCELLATION OF YOUR PROJECT, please file FCC Form 854.** To file electronically, connect to the antenna structure registration system by pointing your web browser to <https://www.fcc.gov/antenna-structure-registration>. Electronic filing is required. Use purpose code "NT" for notification of completion of construction; use purpose code "CA" to cancel your registration.

The Antenna Structure Registration is not an authorization to construct radio facilities or transmit radio signals. It is necessary that all radio equipment on this structure be covered by a valid FCC license or construction permit.

**You must immediately provide a copy of this Registration to all tenant licensees and permittees sited on the structure described on this Registration (although not required, you may want to use Certified Mail to obtain proof of receipt), and display your Registration Number at the site. See reverse for important information about the Commission's Antenna Structure Registration rules.**



You must comply with all applicable FCC obstruction marking and lighting requirements, as set forth in Part 17 of the Commission's Rules (47 C.F.R. Part 17). These rules include, but are not limited to:

- **Posting the Registration Number:** The Antenna Structure Registration Number must be displayed in a conspicuous place so that it is readily visible near the base of the antenna structure. Materials used to display the Registration Number must be weather-resistant and of sufficient size to be easily seen at the base of the antenna structure. Exceptions exist for certain historic structures. See 47 C.F.R. 17.4(g)-(h).
- **Inspecting lights and equipment:** The obstruction lighting must be observed at least every 24 hours in order to detect any outages or malfunctions. Lighting equipment, indicators, and associated devices must be inspected at least once every three months.
- **Reporting outages and malfunctions:** When any top steady-burning light or a flashing light (in any position) burns out or malfunctions, the outage must be reported to the nearest FAA Flight Service Station, unless corrected within 30 minutes. The FAA must again be notified when the light is restored. The owner must also maintain a log of these outages and malfunctions.
- **Maintaining assigned painting:** The antenna structure must be repainted as often as necessary to maintain good visibility.
- **Complying with environmental rules:** If you certified that grant of this registration would not have a significant environmental impact, you must nevertheless maintain all pertinent records and be ready to provide documentation supporting this certification and compliance with the rules, in the event that such information is requested by the Commission pursuant to 47 C.F.R. 1.1307(d).
- **Updating information:** The owner must notify the FCC of proposed modifications to this structure; of any change in ownership; or, within 30 days of dismantlement of the structure.

Copies of the Code of Federal Regulations (which contain the FCC's antenna structure registration rules, 47 C.F.R Part 17) are available from the Government Printing Office (GPO). To purchase CFR volumes, call (202) 512-1800. For GPO Customer Service, call (202) 512-1803. For additional FCC information, consult the Antenna Homepage on the internet at <https://www.fcc.gov/antenna-structure-registration> or call (877) 480-3201 (TTY 717-338-2824).

**FCC Form 854  
Main Form**

Approved by OMD – 3060-0139  
See instructions for public burden estimate

**Application for Antenna Structure Registration**

**Purpose of Filing**

1) Enter the application purpose: ( <b>AM</b> )	
<b>AM</b> – Amendment of a Pending Application <b>AU</b> – Administrative Update <b>CA</b> – Cancellation of an Antenna Structure Registration <b>DI</b> – Notification of an Antenna Structure Dismantlement <b>MD</b> – Modification of a Antenna Structure Registration	<b>NE</b> – Registration of a New Antenna Structure <b>NT</b> – Required Construction/Alteration Notification <b>OC</b> – Ownership Change <b>RE</b> – Registration of a Replacement Antenna Structure <b>WD</b> – Withdrawal of a Pending Application
2a) If the answer to 1 is AU, CA, DI, MD, NT, OC or RE, provide the FCC Antenna Structure Registration (ASR) Number.	FCC ASR Number:
2b) If the answer to 1 is AM or WD, provide the File Number of the pending application on file.	File Number: <b>A1276105</b>
2c) If the answer to 1 is MD or NT, provide the date the Antenna Structure was constructed or the date it was last altered (mm/dd/yyyy).	Date:
2d) If the answer to 1 is DI, provide the date the Antenna Structure was dismantled (mm/dd/yyyy).	Date:

**Antenna Structure Ownership Information**

3) Select one of the entity types:			
( ) Individual	( ) Unincorporated Association	( ) Trust	( ) Government Entity
( ) Corporation	( <b>X</b> ) Limited Liability Company	( ) General Partnership	( ) Limited Partnership
( ) Consortium	( ) Limited Liability Partnership	( ) Other: _____	
4) FCC Registration Number (FRN): <b>0023897788</b>		5) Assignor FCC Registration Number (FRN):	
6) First Name (if individual):	MI:	Last Name:	Suffix:
7) Legal Entity Name (if not an individual): <b>APC Towers, LLC</b>			
8) Attention To:		9) P.O. Box:	<b>And/Or</b>
10a) Street Address 1: <b>8601 Six Forks Road</b>		10b) Street Address 2: <b>Suite 250</b>	
11) City: <b>RALEIGH</b>	12) State: <b>NC</b>	13) Zip Code: <b>27615</b>	
14) Telephone Number (xxx-xxx-xxxx): <b>(919) 757-3900</b>		15) Fax Number: (xxx-xxx-xxxx):	
16) E-mail Address: <b>jparker@apctowers.com</b>			

### Contact Representative Information

17) First Name (if individual):	MI:	Last Name:	Suffix:
18) Business Name: <b>APC Towers, LLC</b>			
19) Attention To: <b>Jay Parker</b>	20) P.O. Box		And/Or
21a) Street Address 1: <b>8601 Six Forks Road</b>		21b) Street Address 2: <b>Suite 250</b>	
22) City: <b>RALEIGH</b>	23) State: <b>NC</b>	24) Zip Code: <b>27615</b>	
25) Telephone Number (xxx-xxx-xxxx): <b>(919) 757-3900</b>		26) Fax Number: (xxx-xxx-xxxx):	
27) E-mail Address: <b>jparker@apctowers.com</b>			

### Antenna Structure Information

28a) Latitude (DD-MM-SS.S): <b>36- 57- 56.8</b>		28b) North or South: <b>North</b>	
29a) Longitude (DDD-MM-SS.S): <b>088- 26- 54.4</b>		29b) East or West: <b>West</b>	
30) Street Address or Geographic Location: <b>7221-7271 US 68</b>		31) City: <b>Benton</b>	
32) County: <b>MARSHALL</b>	33) State: <b>KENTUCKY</b>		34) Zip Code: <b>42025</b>
35) Elevation of site above mean sea level (meters):			<b>131.7 meters</b>
36) Overall height above ground level (AGL) of the supporting structure without appurtenances:			<b>59.4 meters</b>
37) Overall height above ground level (AGL) of the antenna structure including all appurtenances:			<b>60.7 meters</b>
38) Overall height above mean sea level (add items 35 and 37 together):			<b>192.4 meters</b>
39a) Enter the type of structure on which the antenna will be mounted: ( <b>MTOWER</b> )			
<b>B</b> – Building <b>BANT</b> – Building with Antenna on Top <b>BMAST</b> – Building with Mast <b>BPIPE</b> – Building with Pipe <b>BPOLE</b> – Building with Pole <b>BRIDG</b> – Bridge <b>BTWR</b> – Building with Tower <b>GTOWER</b> – Guyed Structure Used For Communication Purposes <b>LTOWER</b> – Lattice Tower <b>MAST</b> – Mast <b>MTOWER</b> – Monopole <b>NNGTANN</b> – Guyed Tower Array		<b>NNLTANN</b> – Lattice Tower Array <b>NNMTANN</b> – Monopole Array <b>PIPE</b> – Any type of Pipe <b>POLE</b> – Any type of Pole <b>RIG</b> – Oil or Other Type of Rig <b>SIGN</b> – Any type of Sign or Billboard <b>SILO</b> – Any type of Silo <b>STACK</b> – Smoke Stack <b>TANK</b> – Any type of Tank (water, gas, etc.) <b>TREE</b> – When used as a support for an antenna <b>UPOLE</b> – Utility Pole/Tower used to provide service (electric, telephone, etc.)	
39b) Number of Towers in Array:		39c) Position of this Tower in the Array:	
40a) Array Center Latitude (DD-MM-SS.S):		40b) North or South	
41a) Array Center Longitude (DDD-MM-SS.S):		41b) East or West:	



### Proposed Marking and/or Lighting

42) Enter the proposed marking and/or lighting: ( 1 )  
See Form 854 Item 42 Instructions for detailed tier and lighting information.

- |                |                |                 |
|----------------|----------------|-----------------|
| 1) None        | 4) FAA Style B | 7) FAA Style E  |
| 2) Paint Only  | 5) FAA Style D | 8) FAA Style F  |
| 3) Other _____ | 6) FAA Style C | 9) FAA Style A  |
|                |                | 10) FAA Style G |

### FAA Notification

43) FAA Study Number: <b>2023-ASO-31440-OE</b>	44) Date Issued: <b>01/10/2024</b>
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### Environmental Compliance

45) Does the applicant request a waiver of the Commission's rules for environmental notice prior to construction due to an emergency situation?	( No ) Yes or No
46a) If the answer to 45 is No, is another federal agency taking responsibility for environmental review of the Antenna Structure?	( No ) Yes or No
46b) If the answer to 46a is Yes, indicate why:  1) The Antenna Structure is on Federal Land and the landholding agency is taking responsibility for the environmental review of the Antenna Structure.  2) Another federal agency has agreed with the FCC in writing to take responsibility for the environmental review of the Antenna Structure.	( ) 1 or 2
46c) If the answer to 46a is Yes, provide the name of the federal agency taking responsibility for the environmental review of the Antenna Structure.	Name:
47) If the answers to 45 and 46a are No, provide the National Notice Date for the application to be posted on the FCC's website (mm/dd/yyyy).	Date: <b>02/21/2024</b>
48) Is the applicant submitting an environmental assessment?	( No ) Yes or No
49) Does the applicant certify that grant of Authorizations at this location would not have a significant environmental effect pursuant to Section 1.1307 of the FCC's rules?	( Yes ) Yes or No
50) If the answer to 49 is Yes, select the basis for this certification.  1) The construction is exempt from environmental notification (other than due to another agency's review) and it does not fall within one of the categories in Section 1.1307(a) or (b) of the FCC's rules?  2) The construction is exempt from environmental notification due to another agency's review, and the other agency has issued a Finding of No Significant Impact.  3) The environmental notification has been completed, and the FCC has notified the applicant that an Environmental Assessment is not required under Section 1.1307(c) or (d) of the FCC's rules, and the Construction does not fall within one of the categories in Section 1.1307(a) or (b) of the FCC's rules.  4) The FCC has issued a Finding of No Significant Impact.	( 3 ) 1, 2, 3, 4
51) If the answer to 50 is 3 or 4, enter the date that Local Notice was provided (mm/dd/yyyy).	Date: <b>02/15/2024</b>

**Certification Statements**

- 1) The applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.
- 2) The applicant certifies that neither the applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862, because of a conviction for possession or distribution of a controlled substance. See Section 1.2002(b) of the rules, 47 CFR § 1.2002(b), for the definition of "party to the application" as used in this certification.

**Signature** (Typed or Printed Name of Party Authorized to Sign) (For OC Applications, to be completed by Assignee)

52) First Name: <b>Jay</b>	MI:	Last Name: <b>Parker</b>	Suffix:
53) Title: <b>Vice President of Construction</b>			
54) Signature: <b>Jay Parker</b>			55) Date: <b>Apr 02, 2024</b>

**Signature** (Typed or Printed Name of Party Authorized to Sign) (For OC Applications, to be completed by Assignor)

56) First Name:	MI:	Last Name:	Suffix:
57) Title:			
58) Signature:			59) Date:

**REFERENCE COPY**

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**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

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

**FCC Registration Number (FRN):** 0003290673

<b>Market Name</b> Kentucky 2 - Union
--

<b>Grant Date</b> 08-31-2021	<b>Effective Date</b> 08-31-2021	<b>Expiration Date</b> 10-01-2031	<b>Five Yr Build-Out Date</b>	<b>Print Date</b> 08-31-2021
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**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)	<b>0</b>	<b>45</b>	<b>90</b>	<b>135</b>	<b>180</b>	<b>225</b>	<b>270</b>	<b>315</b>
<b>Antenna Height AAT (meters)</b>	104.300	99.100	103.400	105.700	89.600	78.600	86.500	103.800
<b>Transmitting ERP (watts)</b>	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.

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 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)	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 Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	97.900	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 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)	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 Construction Deadline:

Antenna: 4

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

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**Waivers/Conditions:**

NONE

Reference Copy



## Cellular - 0009611092 - Cellco Partnership

File Number	0009611092	Radio Service	CL - Cellular
Call Sign	KNKN871	Application Status	G - Granted
<b>General Information</b>			
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			
<b>Market Data</b>			
Market	CMA444 - Kentucky 2 - Union	Channel Block	B
Submarket Designator	0	Phase	2
<b>Applicant Information</b>			
FRN	0003290673	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	
<b>Contact Information</b>			
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
<b>Qualifications, Ownership</b>			

Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes
<b>Alien Ownership</b>			
The Applicant answered "No" to each of the Alien Ownership questions.			
<b>Basic Qualifications</b>			
The Applicant answered "No" to each of the Basic Qualification questions.			
<b>Demographics</b>			
Race			
Ethnicity		Gender	
<b>Additional Certifications</b>			
<b>Operation/Performance Requirement Certification</b>			
<b>For a site-based license</b>			
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).			
<b>For a geographic license, commercial service - licensee in its initial license term with an interim performance requirement</b>			
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.			
<b>For a geographic license, commercial service - licensee in its initial license term with no interim performance requirement</b>			
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.			
<b>For a geographic license, commercial service - licensee in any subsequent term</b>			
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.			
<b>For a geographic license, private systems - licensee in its initial license term with an interim performance requirement</b>			
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.			
<b>For a geographic license, private systems - licensee in its initial license term with no interim performance requirement</b>			
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.			



<p><b>For a geographic license, private systems - licensee in any subsequent term</b></p>	
<p>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.</p>	
<p><b>For a partitioned or disaggregated license without a performance requirement, for the first renewal application filed after 05/30/2020.</b></p>	
<p>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.</p>	
<p><b>For a partitioned or disaggregated license without a performance requirement, for any subsequent renewal filings</b></p>	
<p>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.</p>	
<p><b>Discontinuance of Service Certification</b></p>	
<p>Applicant certifies that no permanent discontinuance of service or operation, as applicable, occurred during its current license term.</p>	
<p><b>Regulatory Compliance Certification</b></p>	
<p>Applicant certifies that it has substantially complied with all applicable FCC rules, policies, and the Communications Act of 1934, as amended.</p>	
<hr/>	

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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (KNLH404), File Number, and Radio Service (CW - PCS Broadband).

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

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

Conditions:

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

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

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** KNLH404

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

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

**0009135432 - Verizon Communications Inc.**

File Number	0009135432	Application Status	Q - Accepted
<b>General Information</b>			
Application Purpose	TC - Transfer of Control		
Receipt Date	07/21/2020		
Entered Date	07/21/2020	Action Date	08/13/2020
Waiver	No	Number of Rules	
Attachments	Yes		
Application Fee Exempt	No	Waiver/Deferral Fee	No
<b>Licensee Information</b>			
FRN	0003290673	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		Gender	
Ethnicity			
<b>Licensee Contact Information</b>			
Name	Verizon Sarah Trosch 1300 I Street, NW - Suite 500 East Washington, DC 20005		P:(202)515-2453 E:sarah.trosch@verizon.com
<b>Transferor Information</b>			
FRN	0003257094	Type	Corporation
Name	Verizon Communications Inc. ATTN Sarah Trosch 1300 I Street, NW - Suite 500 East Washington, DC 20005		P:(202)515-2453 E:sarah.trosch@verizon.com
Race		Gender	
Ethnicity			
<b>Transferor Contact Information</b>			
Name	Wilkinson Barker Knauer, LLP ATTN Jennifer L. Kostyu		P:(202)783-4141 F:(202)783-5851

1800 M. St., NW, Suite 800N  
Washington, DC 20036

E:jkostyu@wbklaw.com

### Transferee Information

FRN	0003257094	Type	Corporation
Name	Verizon Communications Inc. ATTN Sarah Trosch 1300 I Street, NW - Suite 500 East Washington, DC 20005		P:(202)515-2453 E:sarah.trosch@verizon.com
Real Party In Interest	Cellco Partnership	FRN of Real Party in Interest	0003290673
Race		Gender	
Ethnicity			

### Transferee Contact Information

Name	Wilkinson Barker Knauer, LLP ATTN Jennifer L. Kostyu 1800 M. St., NW, Suite 800N Washington, DC 20036		P:(202)783-4141 F:(202)783-5851 E:jkostyu@wbklaw.com
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### Transferee 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.

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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

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

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

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

Conditions:

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

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



**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WQGA718

**File Number:** 0009793647

**Print Date:** 02-23-2022

**700 MHz Relicensed Area Information:**

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

**0010761275 - Trace-Tek**

File Number	0010761275	Application Status	G - Granted
Application Purpose	AM - Amendment	Classification of Lease	De Facto Transfer

**General Information**

Application Purpose	AM - Amendment	Original Application Purpose	LN - New Lease
Receipt Date	04/09/2024		
Entered Date	04/09/2024	Action Date	04/11/2024
Waiver	No	Number of Rules	
Attachments	Yes		
Application Fee Exempt	No	Waiver/Deferral Fee	No

**Licensee Information**

FRN	0003290673	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		Gender	
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
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**Lessee Information**

FRN	0030856223	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		Gender	
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
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**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.

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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WQGA959), File Number (0009775569), and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz))

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

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

Conditions:

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

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

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WQGA959

**File Number:** 0009775569

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

**700 MHz Relicensed Area Information:**

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

**AWS (1710-1755 MHz and 2110-2155 MHz) - 0009775569 - Cellco Partnership**

File Number	0009775569	Radio Service	AW - AWS (1710-1755 MHz and 2110-2155 MHz)
Call Sign	WQGA959	Application Status	G - Granted
<b>General Information</b>			
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			
<b>Market Data</b>			
Market	BEA071 - Nashville, TN-KY	Channel Block	B
Submarket Designator	0	Associated Frequencies (MHz)	001720.00000000-001730.00000000 002120.00000000-002130.00000000
<b>Applicant Information</b>			
FRN	0003290673	Type	General Partnership
Name	Cellco Partnership 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022		P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com
Real Party in Interest		FRN of Real Party in Interest	
<b>Contact Information</b>			
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

Gender

## 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

<p>facilities to provide at least the level of operation required by its final performance requirement through the end of the license term.</p>	
<p><b>For a geographic license, private systems - licensee in any subsequent term</b></p>	
<p>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.</p>	
<p><b>For a partitioned or disaggregated license without a performance requirement, for the first renewal application filed after 05/30/2020.</b></p>	
<p>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.</p>	
<p><b>For a partitioned or disaggregated license without a performance requirement, for any subsequent renewal filings</b></p>	
<p>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.</p>	
<p><b>Discontinuance of Service Certification</b></p>	
<p>Applicant certifies that no permanent discontinuance of service or operation, as applicable, occurred during its current license term.</p>	
<p><b>Regulatory Compliance Certification</b></p>	
<p>Applicant certifies that it has substantially complied with all applicable FCC rules, policies, and the Communications Act of 1934, as amended.</p>	
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

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

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

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

Conditions:

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

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

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WQGA960

**File Number:** 0009775572

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

**700 MHz Relicensed Area Information:**

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

**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
<b>General Information</b>			
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			
<b>Market Data</b>			
Market	BEA072 - Paducah, KY-IL	Channel Block	B
Submarket Designator	0	Associated Frequencies (MHz)	001720.00000000-001730.00000000 002120.00000000-002130.00000000
<b>Applicant Information</b>			
FRN	0003290673	Type	General Partnership
Name	Cellco Partnership 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022		P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com
Real Party in Interest		FRN of Real Party in Interest	
<b>Contact Information</b>			
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

Gender

## 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



<p>facilities to provide at least the level of operation required by its final performance requirement through the end of the license term.</p>	
<p><b>For a geographic license, private systems - licensee in any subsequent term</b></p>	
<p>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.</p>	
<p><b>For a partitioned or disaggregated license without a performance requirement, for the first renewal application filed after 05/30/2020.</b></p>	
<p>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.</p>	
<p><b>For a partitioned or disaggregated license without a performance requirement, for any subsequent renewal filings</b></p>	
<p>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.</p>	
<p><b>Discontinuance of Service Certification</b></p>	
<p>Applicant certifies that no permanent discontinuance of service or operation, as applicable, occurred during its current license term.</p>	
<p><b>Regulatory Compliance Certification</b></p>	
<p>Applicant certifies that it has substantially complied with all applicable FCC rules, policies, and the Communications Act of 1934, as amended.</p>	
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WQGD606), File Number (0009565676), and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz))

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

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

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

Conditions:

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

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

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WQGD606

**File Number:** 0009565676

**Print Date:** 07-09-2022

**700 MHz Relicensed Area Information:**

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

**0010093348 - Cellco Partnership**

File Number	0010093348	Application Status	Q - Accepted
<b>General Information</b>			
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			
<b>Applicant Information</b>			
FRN	0003290673	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	
<b>Contact Information</b>			
Name	Verizon Sarah Trosch 1300 I Street, NW - Suite 500 East Washington, DC 20005		P:(202)515-2453 E:sarah.trosch@verizon.com



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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

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

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

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

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

Conditions:

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

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

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WQJQ692

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

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

**0010761275 - Trace-Tek**

File Number	0010761275	Application Status	G - Granted
Application Purpose	AM - Amendment	Classification of Lease	De Facto Transfer

**General Information**

Application Purpose	AM - Amendment	Original Application Purpose	LN - New Lease
Receipt Date	04/09/2024		
Entered Date	04/09/2024	Action Date	04/11/2024
Waiver	No	Number of Rules	
Attachments	Yes		
Application Fee Exempt	No	Waiver/Deferral Fee	No

**Licensee Information**

FRN	0003290673	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		Gender	
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
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**Lessee Information**

FRN	0030856223	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		Gender	
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.

**REFERENCE COPY**

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**Federal Communications Commission  
Wireless Telecommunications Bureau**

**RADIO STATION AUTHORIZATION**

LICENSEE: KENTUCKY RSA NO. 1 PARTNERSHIP

ATTN: LICENSING MANAGER  
KENTUCKY RSA NO. 1 PARTNERSHIP  
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING  
ALPHARETTA, GA 30022

<b>Call Sign</b> KNKQ306	<b>File Number</b> 0009611390
<b>Radio Service</b> CL - Cellular	
<b>Market Numer</b> CMA443	<b>Channel Block</b> B
<b>Sub-Market Designator</b> 0	

**FCC Registration Number (FRN):** 0001836709

<b>Market Name</b> Kentucky 1 - Fulton
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<b>Grant Date</b> 08-31-2021	<b>Effective Date</b> 08-31-2021	<b>Expiration Date</b> 10-01-2031	<b>Five Yr Build-Out Date</b>	<b>Print Date</b> 08-31-2021
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**Site Information:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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1	36-20-59.2 N	089-22-12.3 W	98.0		
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**Address:** 0.68 MILE SOUTH OF LASSITER CORNER & REEL FOOT LAKE

**City:** LASSITER CORNER **County:** LAKE **State:** TN **Construction Deadline:**

**Antenna: 1**

**Maximum Transmitting ERP in Watts:** 135.800

Azimuth(from true north)	<b>0</b>	<b>45</b>	<b>90</b>	<b>135</b>	<b>180</b>	<b>225</b>	<b>270</b>	<b>315</b>
<b>Antenna Height AAT (meters)</b>	148.000	117.000	107.000	117.000	121.000	147.000	149.000	146.000
<b>Transmitting ERP (watts)</b>	133.300	103.500	36.500	4.500	1.500	3.900	38.800	109.600

**Conditions:**

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

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number: 0009611390

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
2	36-45-58.0 N	088-38-50.0 W	143.0	147.8	1043917

Address: 416 Jimtown Road

City: MAYFIELD County: GRAVES 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)	124.300	120.000	100.800	92.100	88.300	103.100	108.600	100.800
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.
4	36-54-35.5 N	089-04-01.6 W	110.3	121.0	1030662

Address: (Wickliffe) 353 CR 1307

City: Bardwell County: CARLISLE State: KY Construction Deadline:

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	107.500	98.100	119.800	96.700	86.900	133.300	130.900	130.400
Transmitting ERP (watts)	189.230	48.640	1.690	0.930	0.930	0.930	1.810	52.120

Antenna: 5

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	107.500	98.100	119.800	96.700	86.900	133.300	130.900	130.400
Transmitting ERP (watts)	1.710	64.860	368.980	174.580	8.750	0.930	0.930	0.930

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)	107.800	98.100	119.800	96.700	86.900	133.300	130.900	130.400
Transmitting ERP (watts)	0.350	0.350	1.230	35.330	112.440	35.270	1.000	0.350

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
6	36-31-12.4 N	088-50-41.5 W	144.2	122.2	1030665

Address: (Fulton) 550 Powell Road

City: Fulton County: HICKMAN State: KY Construction Deadline:

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	128.200	122.800	123.200	135.200	147.500	157.200	143.900	141.700
Transmitting ERP (watts)	110.570	412.100	98.560	4.220	1.510	0.920	0.920	6.530

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)	128.200	122.800	123.200	135.200	147.500	157.200	143.900	141.700
Transmitting ERP (watts)	0.550	0.550	0.550	0.550	1.480	16.430	11.480	0.700

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number: 0009611390

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
6	36-31-12.4 N	088-50-41.5 W	144.2	122.2	1030665

Address: (Fulton) 550 Powell Road

City: Fulton County: HICKMAN State: KY Construction Deadline:

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)	128.200	122.800	123.200	135.200	147.500	157.200	143.900	141.700
Transmitting ERP (watts)	135.480	5.650	2.230	0.920	1.320	5.450	78.640	402.820

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
7	36-38-26.2 N	088-16-00.1 W	165.8	90.8	1030663

Address: (Murray) 1431 Van Cleave Road

City: Murray County: CALLOWAY State: KY Construction Deadline:

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	106.900	107.100	115.000	106.900	87.400	91.300	86.200	97.500
Transmitting ERP (watts)	124.240	6.420	0.560	0.560	0.560	0.830	39.630	251.940

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)	106.900	107.100	115.000	106.900	87.400	91.300	86.200	97.500
Transmitting ERP (watts)	3.450	96.460	263.070	57.230	1.700	0.560	0.560	0.560

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)	106.900	107.100	115.000	106.900	87.400	91.300	86.200	97.500
Transmitting ERP (watts)	0.370	0.370	0.370	12.730	121.110	104.340	9.310	0.370

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
8	37-03-51.4 N	088-57-23.6 W	116.4	92.4	1030664

Address: (La Center) 220 RICHARDSON LN

City: LA CENTER County: BALLARD 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)	85.600	78.400	71.900	66.000	65.300	67.000	87.700	96.100
Transmitting ERP (watts)	2.110	71.430	167.460	63.670	0.330	0.640	0.330	0.330

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	85.600	78.400	71.900	66.000	65.300	67.000	87.700	96.100
Transmitting ERP (watts)	1.230	1.000	1.380	23.440	338.840	457.090	66.070	2.240



Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number: 0009611390

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
8	37-03-51.4 N	088-57-23.6 W	116.4	92.4	1030664

Address: (La Center) 220 RICHARDSON LN  
 City: LA CENTER County: BALLARD State: KY Construction Deadline:

Antenna: 4  
 Maximum Transmitting ERP in Watts: 140.820  
 Azimuth(from true north) 0 45 90 135 180 225 270 315  
 Antenna Height AAT (meters) 85.600 78.400 71.900 66.000 65.300 67.000 87.700 96.100  
 Transmitting ERP (watts) 165.960 6.610 0.910 0.500 0.500 0.890 45.710 223.870

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
10	36-44-07.9 N	088-58-29.2 W	131.9	92.9	1030723

Address: 3975 State Route 2206  
 City: CLINTON County: HICKMAN State: KY Construction Deadline:

Antenna: 2  
 Maximum Transmitting ERP in Watts: 140.820  
 Azimuth(from true north) 0 45 90 135 180 225 270 315  
 Antenna Height AAT (meters) 100.500 101.900 98.900 84.700 107.900 118.900 119.900 100.400  
 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.
11	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 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) 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

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number: 0009611390

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
12	36-34-49.2 N	088-31-45.2 W	155.5	91.4	1202399

Address: 12201 SR 97

City: TriCity County: GRAVES 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)	75.100	73.400	74.100	70.100	102.600	100.900	74.700	81.300
Transmitting ERP (watts)	0.280	4.680	67.610	91.200	13.180	0.450	0.250	0.200

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	75.100	73.400	74.100	70.100	102.600	100.900	74.700	81.300
Transmitting ERP (watts)	0.360	0.200	0.200	0.350	18.200	89.130	66.070	2.630

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)	75.100	73.400	74.100	70.100	102.600	100.900	74.700	81.300
Transmitting ERP (watts)	100.000	38.020	0.200	0.380	0.200	0.200	1.260	42.660

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
14	37-05-47.2 N	088-42-35.2 W	104.2	63.4	1200593

Address: (Paducah West) 4415 Merredith Rd.

City: Paducah County: MCCRACKEN State: KY Construction Deadline: 07-08-2014

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)	59.900	55.900	65.200	50.700	38.200	34.700	42.800	64.600
Transmitting ERP (watts)	24.580	50.820	50.310	19.100	0.840	0.330	0.330	1.370

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)	59.900	55.900	65.200	50.700	38.200	34.700	42.800	64.600
Transmitting ERP (watts)	0.440	0.440	12.210	76.570	112.800	57.980	5.460	0.440

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)	59.900	55.900	65.200	50.700	38.200	34.700	42.800	64.600
Transmitting ERP (watts)	20.830	0.780	0.440	0.440	2.790	42.940	108.040	89.900

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number: 0009611390

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
15	36-46-54.2 N	088-03-28.1 W	199.0	126.5	1205551

Address: 14664 Canton Road

City: Golden Pond County: TRIGG State: KY Construction Deadline: 05-19-2006

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	165.000	178.000	160.400	174.500	170.600	167.000	177.000	183.900
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.
16	36-34-03.0 N	089-10-30.9 W	109.4	91.4	1282534

Address: (Hickman site) Holley Street

City: Hickman County: FULTON State: KY Construction Deadline: 05-28-2014

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	105.500	102.800	96.700	89.300	75.700	68.400	107.900	107.300
Transmitting ERP (watts)	141.700	118.910	1.140	0.580	0.580	0.580	0.580	4.050

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	105.500	102.800	96.700	89.300	75.700	68.400	107.900	107.300
Transmitting ERP (watts)	0.580	4.050	141.730	118.910	1.140	0.580	0.580	0.580

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	105.500	102.800	96.700	89.300	75.700	68.400	107.900	107.300
Transmitting ERP (watts)	0.460	0.460	0.460	0.460	0.460	7.710	45.610	24.600

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	37-10-55.4 N	088-56-43.7 W	102.7	99.1	1252613

Address: (Monkey's Eyebrow) 4625 Odgen Colvin Circle

City: Kevil County: BALLARD State: KY Construction Deadline: 10-24-2014

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	85.900	83.500	90.600	69.600	74.300	84.600	86.500	83.200
Transmitting ERP (watts)	7.080	125.890	478.630	112.200	4.570	1.580	1.000	1.000

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)	85.900	83.500	90.600	69.600	74.300	84.600	86.500	83.200
Transmitting ERP (watts)	1.000	1.410	12.020	213.800	446.680	64.570	2.820	1.000

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number: 0009611390

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	37-10-55.4 N	088-56-43.7 W	102.7	99.1	1252613

Address: (Monkey's Eyebrow) 4625 Odgen Colvin Circle

City: Kevil County: BALLARD State: KY Construction Deadline: 10-24-2014

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)	85.900	83.500	90.600	69.600	74.300	84.600	86.500	83.200
Transmitting ERP (watts)	2.000	2.000	2.000	2.000	2.000	398.110	549.540	4.900

Control Points:

Control Pt. No. 3

Address: 500 W. Dove Rd.

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

Waivers/Conditions:

NONE

**Cellular - 0009611390 - KENTUCKY RSA NO. 1 PARTNERSHIP**

File Number	0009611390	Radio Service	CL - Cellular
Call Sign	KNKQ306	Application Status	G - Granted
<b>General Information</b>			
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			
<b>Market Data</b>			
Market	CMA443 - Kentucky 1 - Fulton	Channel Block	B
Submarket Designator	0	Phase	2
<b>Applicant Information</b>			
FRN	0001836709	Type	General Partnership
Name	KENTUCKY RSA NO. 1 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	
<b>Contact Information</b>			
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: \_\_\_\_\_      Gender: \_\_\_\_\_

## 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.

<p><b>For a geographic license, private systems - licensee in any subsequent term</b></p>	
<p>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.</p>	
<p><b>For a partitioned or disaggregated license without a performance requirement, for the first renewal application filed after 05/30/2020.</b></p>	
<p>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.</p>	
<p><b>For a partitioned or disaggregated license without a performance requirement, for any subsequent renewal filings</b></p>	
<p>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.</p>	
<p><b>Discontinuance of Service Certification</b></p>	
<p>Applicant certifies that no permanent discontinuance of service or operation, as applicable, occurred during its current license term.</p>	
<p><b>Regulatory Compliance Certification</b></p>	
<p>Applicant certifies that it has substantially complied with all applicable FCC rules, policies, and the Communications Act of 1934, as amended.</p>	
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**FEDERAL COMMUNICATIONS COMMISSION**  
**Wireless Telecommunications Bureau**

**Spectrum Leasing Arrangement**

04/22/2024

ATTN: REGULATORY  
 KENTUCKY RSA NO. 1 PARTNERSHIP  
 1120 SANCTUARY PKWY #150 - GASA5REG  
 ALPHARETTA, GA 30009

Reference Number:

This approval allows the Lessee to lease spectrum from the Licensee pursuant to the provisions and requirements of Subpart X of Part 1 of the Commission's Rules, 47 C.F.R. Part 1, and as described in the associated spectrum leasing application or notification.

Type of Lease Arrangement	Lease Term	Lease Identifier
Spectrum Manager Lease	Long Term	L000008155

Lease Grant/Accepted Date	Lease Commencement Date	Lease Expiration Date
03/17/2011	03/25/2011	06/13/2029

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

Lessee Information
0001836709
KENTUCKY RSA NO. 1 PARTNERSHIP
Attn: REGULATORY
1120 SANCTUARY PKWY #150 - GASA5REG
ALPHARETTA, GA 30009

Licensee Information
0003290673
CELLCO PARTNERSHIP
Attn: REGULATORY
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

<b>Geographically-Licensed Services</b>		
Market Number	Market Name	Channel Block
REA004	Mississippi Valley	C

**Condition:**

This lease may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum associated with this leasing agreement, 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 <https://www.fcc.gov/wireless/universal-licensing-system> and select "License Search". Follow the instructions on how to search for license information.

**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.

# 0008616845 - Kentucky RSA No. 1 Partnership

File Number	0008616845	Application Status	Q - Accepted
Application Purpose	LE - Extend Term of a Lease	Classification of Lease	Spectrum Manager

### General Information

Application Purpose	LE - Extend Term of a Lease		
Receipt Date	04/25/2019	Action Date	01/16/2020
Entered Date	04/25/2019		
Waiver	No	Number of Rules	
Attachments	No		
Application Fee Exempt	No	Waiver/Deferral Fee	No

### Licensee Information

FRN	0003290673	Type	General Partnership
Name	Cellco Partnership ATTN Regulatory 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022		P:(770)797-1070 E:LicensingCompliance@verizonwireless.com
Race		Gender	
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
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### Lessee Information

FRN	0001836709	Type	General Partnership
Name	Kentucky RSA No. 1 Partnership ATTN Cellco Partnership 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022		P:(770)797-1070 E:LicensingCompliance@verizonwireless.com
Real Party In Interest	Cellco Partnership	FRN of Real Party in Interest	0003290673
Race		Gender	
Ethnicity			

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

**EXHIBIT B**

**SITE DEVELOPMENT PLAN:**

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





8601 SIX FORKS ROAD, SUITE 250  
RALEIGH, NC 27615

# EV SHARPE

## APC SITE #: KY-1604

US HIGHWAY 68  
BENTON, KY 42025  
MARSHALL COUNTY

TENANT: LEGAL BUSINESS ENTITY d/b/a VERIZON WIRELESS

FROM 2441 HOLLOWAY RD, LOUISVILLE: HEAD SOUTH ON HOLLOWAY RD TOWARD SCHUTTE STATION PI (351FT.). TURN LEFT ONTO SCHUTTE STATION PI (0.3MI.). ROAD NAME CHANGES TO PLANTSIDE DR (0.6MI.). TURN LEFT ONTO BLANKENBAKER PKWY (0.7MI.). TAKE THE RAMP ON THE RIGHT FOR I-64E (1.6MI.). AT EXIT 19A, HEAD RIGHT ON THE RAMP FOR I-265 (2.8MI.). ROAD NAME CHANGES TO I-265W (12.5MI.). AT EXIT 10-B, HEAD RIGHT ON THE RAMP FOR I-65S (33.9MI.). AT EXIT 91C-A, HEAD RIGHT ON THE RAMP FOR US-31W (0.4MI.). KEEP LEFT, HEADING TOWARD LEITCHFIELD (75.1MI.). ROAD NAME CHANGES TO WESTERN KENTUCKY PKWY W (21.7MI.). KEEP STRAIGHT TO GET ONTO I-69S (37.4MI.). AT EXIT 68B, HEAD RIGHT ON THE RAMP FOR I-69S (14.9MI.). AT EXIT 27, HEAD RIGHT ON THE RAMP FOR US-62W (0.4MI.). TURN RIGHT ONTO US-62W (1.5MI.). TURN LEFT ONTO US-95S (3.3MI.). TURN RIGHT ONTO KY-1422 (0.5MI.). BEAR RIGHT ONTO US-68W (4.6MI.).

FROM MARSHAL COUNTY SEAT: 198-100 E 11TH ST, BENTON: HEAD WEST ON E 11TH ST AND TURN LEFT ONTO MAIN ST (262 FT). TURN LEFT ONTO E 12TH ST (249 FT). TURN LEFT ONTO POPLAR ST (0.5 MI.). TURN RIGHT ONTO US-641 N/MAIN ST (4 MI.). SLIGHT LEFT ONTO US-641N/US-68W (7.9MI.). SITE WILL BE ON THE LEFT.

**NEW 195' MONOPOLE TOWER  
w/4' LIGHTNING ROD  
TOTAL TOWER HEIGHT 199'**

**TOWER OWNER SITE**

EV SHARPE  
SITE #: KY-1604

**VERIZON WIRELESS SITE**

EV SHARPE  
PROJECT#: 781112  
MARKET ID: EV  
MDG#: 5000917921

**SITE ADDRESS**

US HIGHWAY 68  
BENTON, KY 42025  
MARSHALL COUNTY  
E911 ADDRESS: TBD

**TOWER OWNER**

APC TOWERS IV, LLC  
8601 SIX FORKS RD, SUITE 250  
RALEIGH, NC 27615  
CONTACT: PAUL ALVAREZ  
PHONE: 919-249-7732  
MOBILE: 224-828-3092  
E-MAIL: PALVAREZ@APCTOWERS.COM

**PROPERTY OWNER**

RILEY GALON  
758 MT. MORIAH ROAD  
BENTON, KY 42025  
CONTACT: NANCY RILEY  
PHONE: 270-519-9267  
E-MAIL: -

**POLICE**

MARSHALL COUNTY SHERIFF  
202 W 5TH ST  
BENTON, KY 42025  
PHONE: 270-527-3112

**FIRE**

POSSUM TROT SHARPE FIRE DISTRICT  
39 LITTLE CYPRESS RD  
CALVERT CITY, KY 42029  
PHONE: 20-898-4158

**GENERAL INFORMATION**

LATITUDE - 36° 57' 56.81" N  
LONGITUDE - 88° 26' 54.39" W  
1983 (NAD83)

ELEVATION - 432.00' AMSL  
1988 (NAVD88)

**TOWER OWNER LEASE AREA**

100'-0" x 100'-0"  
(10000 SF)

**VERIZON WIRELESS LEASE AREA**

20'-0" x 36'-0"  
(720 SF)

**PROJECT TOTAL DISTURBED AREA**

COMPOUND: (2500 SF) = (0.57 ACRE)  
ACCESS DRIVE: (5114 SF) = (0.117 ACRE)  
GROSS AREA: (22089 SF) = (0.507 ACRE)

**PROJECT DESCRIPTION:**

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

**TOWER OWNER SCOPE:**

- INSTALL A NEW 195' MONOPOLE TOWER w/ 4' LIGHTNING ROD (TOTAL 199')
- INSTALL A NEW TOWER FOUNDATION SYSTEM
- INSTALL A NEW 50'X50' FENCED GRAVEL COMPOUND
- INSTALL A NEW ELECTRICAL SERVICE RUN TO SITE UTILITY H-FRAME
- INSTALL A NEW GRAVEL ACCESS DRIVE
- NO WATER OR SEWAGE SERVICES RUN TO SITE
- INSTALL NEW TOWER & SITE GROUNDING SYSTEM
- INSTALL NEW VZW SUBSURFACE GROUNDING SYSTEM
- INSTALL A NEW VZW CONCRETE EQUIPMENT PAD
- INSTALL A NEW VZW CONCRETE GENERATOR PAD
- INSTALL ELECTRICAL SERVICE CONDUIT WITH PULL TAPES FROM ILC ENCLOSURE STUB-UP TO UTILITY H-FRAME
- INSTALL NEW CONDUITS WITH PULL TAPES FROM VZW ILC STUB-UP LOCATION TO THE GENERATOR STUB-UP AT VZW GENERATOR PAD
- INSTALL (1) NEW "VERIZON WIRELESS ONLY" FIBER OPTIC CONDUIT WITH INTEGRAL (3) 1-1/4" INNERDUCTS WITH PULL TAPES AND TRACER WIRE FROM VZW EQUIPMENT TO NEW "VERIZON WIRELESS ONLY" 24"X36" HAND HOLE OUTSIDE COMPOUND THEN TO NEW "VERIZON WIRELESS ONLY" 24"X36" HAND HOLE AT R.O.W.
- PERMANENT ELECTRIC POWER MUST BE AVAILABLE FOR VERIZON WIRELESS AT THE METER BASE PRIOR TO THE SITE BEING RELEASED AS TENANT READY

**VERIZON WIRELESS SCOPE (VZW GC):**

- INSTALL VZW PREFABRICATED CANOPY AND FOUNDATIONS
- INSTALL VZW ICE BRIDGE AND FOUNDATIONS
- INSTALL VZW EQUIPMENT H-FRAME AND FOUNDATIONS
- INSTALL VZW ANTENNA MOUNTING SUPPORT STRUCTURE ON TOWER
- INSTALL VZW ANTENNAS, LINES, COAX, GPS ANTENNA AND RADIO EQUIPMENT
- INSTALL EXISTING SUBSURFACE GROUND LEADS TO VZW EQUIPMENT & FACILITIES
- INSTALL VZW ELECTRIC SERVICE CONDUCTORS FROM UTILITY H-FRAME TO VZW ILC ENCLOSURE
- INSTALL NEW CONDUITS WITH PULL TAPES FROM RF CABINET TO OVP H-FRAME LIT FIBER LOCATION
- INSTALL NEW CONDUITS AND CIRCUITS FROM VZW ILC ENCLOSURE TO EQUIPMENT ENCLOSURES AT VZW EQUIPMENT PAD
- INSTALL VZW GENERATOR CIRCUITS FROM VZW ILC & EQUIPMENT ENCLOSURES TO VZW GENERATOR
- INSTALL NEW OUTDOOR OVPs AND CABLING ON VERIZON EQUIPMENT H-FRAME

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 (IBC 2015)  
STRUCTURAL CODE TIA/EIA-222 - REVISION G (INCLUDES ADDENDUM #2)  
MECHANICAL CODE 2015 INTERNATIONAL MECHANICAL CODE (IMC 2015)  
PLUMBING CODE KENTUCKY STATE PLUMBING CODE (815 KAR CHAP. 20)  
ELECTRICAL CODE 2017 NATIONAL ELECTRICAL CODE (NEC) - NFPA 70  
FIRE/LIFE SAFETY CODE 2015 INTERNATIONAL FIRE CODE (2015 IFC)  
ENERGY CODE 2012 INTERNATIONAL ENERGY CODE (COMMERCIAL)  
GAS CODE 2012 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 2015 IBC BUILDING CODE.

**APPLICABLE CODES**

**SURVEYOR**

SHARONDALE SURVEYING, INC.  
161 MARTIN RD, BON AQUA, TN 37025  
PHONE: 615-513-0032  
EMAIL: SHARNDAL@BELLSOUTH.NET

**ARCHITECTURAL**

BOWMAN  
3001 TAYLOR SPRINGS DR  
LOUISVILLE, KY 40220  
CONTACT: TYLER LASHBROOK  
PHONE: 502-459-8402  
EMAIL: jlashbrook@bowman.com

**ELECTRICAL**

JACKSON PURCHASE ENERGY  
ADDRESS: 6525 US HWY 60  
PADUCAH, KY 42001  
CONTACT: CONNOR RILEY  
PHONE: 270-217-5667  
EMAIL: connor.riley@jpenergy.com

**CONSULTANT TEAM**

**SHEET NUMBER DESCRIPTION**

T-1	PROJECT INFORMATION, SITE MAPS, SHEET INDEX SURVEY PLAN
<b>CML</b>	
C-1	OVERALL SITE PLAN w/AERIAL OVERLAY
C-1A	OVERALL SITE PLAN w/PLATFORM DISTANCE TO PROPERTY LINES
C-1B	TOWER DISTANCE TO RESIDENTIAL STRUCTURES
C-1C	COUNTY TOWER MAP
C-2-2A	GRADING AND E&S CONTROL PLAN
C-3	DETAILED SITE PLAN
C-4	DIMENSIONED SITE PLAN
C-5	DETAILED EQUIPMENT PAD PLAN

**SITE DETAILS**

D-1	FENCE DETAILS AND NOTES
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**TOWER ELEVATION**

TE-1	TOWER ELEVATION
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**REFERENCE DRAWINGS**

RF-1	ANTENNA PLAN AND DETAILS (REFERENCE ONLY)
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**Bowman**

CONSULTING ENGINEERS,  
LANDSCAPE ARCHITECTS, PLANNERS AND  
SURVEYORS

3001 TAYLOR SPRINGS DRIVE  
LOUISVILLE, KENTUCKY 40220  
PHONE: (502) 459-8402  
FAX: (502) 459-8427



8801 SIX FORKS ROAD, SUITE 250  
RALEIGH, NC 27615  
PHONE (919) 249-7732

REV	DATE	DESCRIPTION
0	12/07/23	ISSUE FOR ZONING
1	12/19/23	ISSUE FOR ZONING
2	04/17/24	ISSUE FOR ZONING



EV SHARPE  
US HIGHWAY 68  
BENTON, KY 42025  
PROJECT INFORMATION,  
SITE MAPS, SHEET INDEX

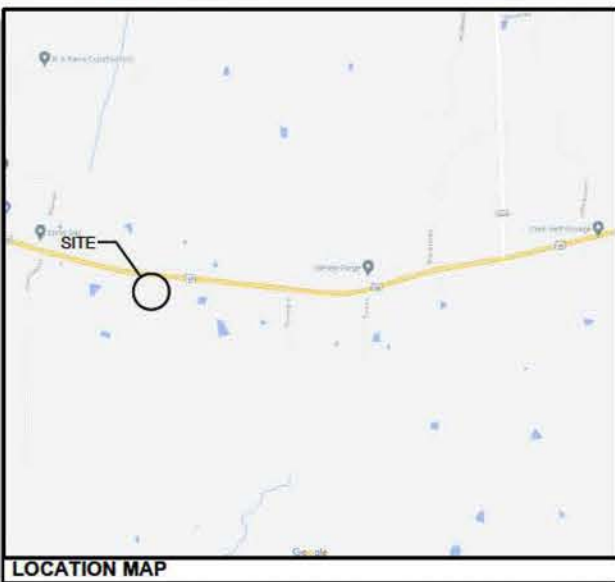
ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	CWS

JOB NUMBER  
240739-01-001

T-1

WK PAD & CANOPY REV 3 FINAL 10/16/23





**FLOOD HAZARD STATEMENT:**

THIS COMMUNICATIONS SITE (THE SUBJECT SITE AS SHOWN) IS NOT LOCATED WITHIN THE LIMITS OF A DESIGNATED 100 YEAR FLOOD ZONE PER FEMA/FIRM MAP COMMUNITY PANEL NUMBER 21157C 0055 E, MARSHALL COUNTY, KENTUCKY, EFFECTIVE DATE JUNE 2, 2011.

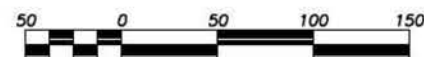
**PROJECT BENCHMARK**

TBM ELEVATION DATUM IS BASED UPON GPS SURVEY METHODS AND PROCEDURES.  
TOP OF "CAPPED" IRON PIN SET THIS SURVEY  
ELEVATION = 420.61' N.A.V.D. 88.  
(SEE PLAN FOR LOCATION)

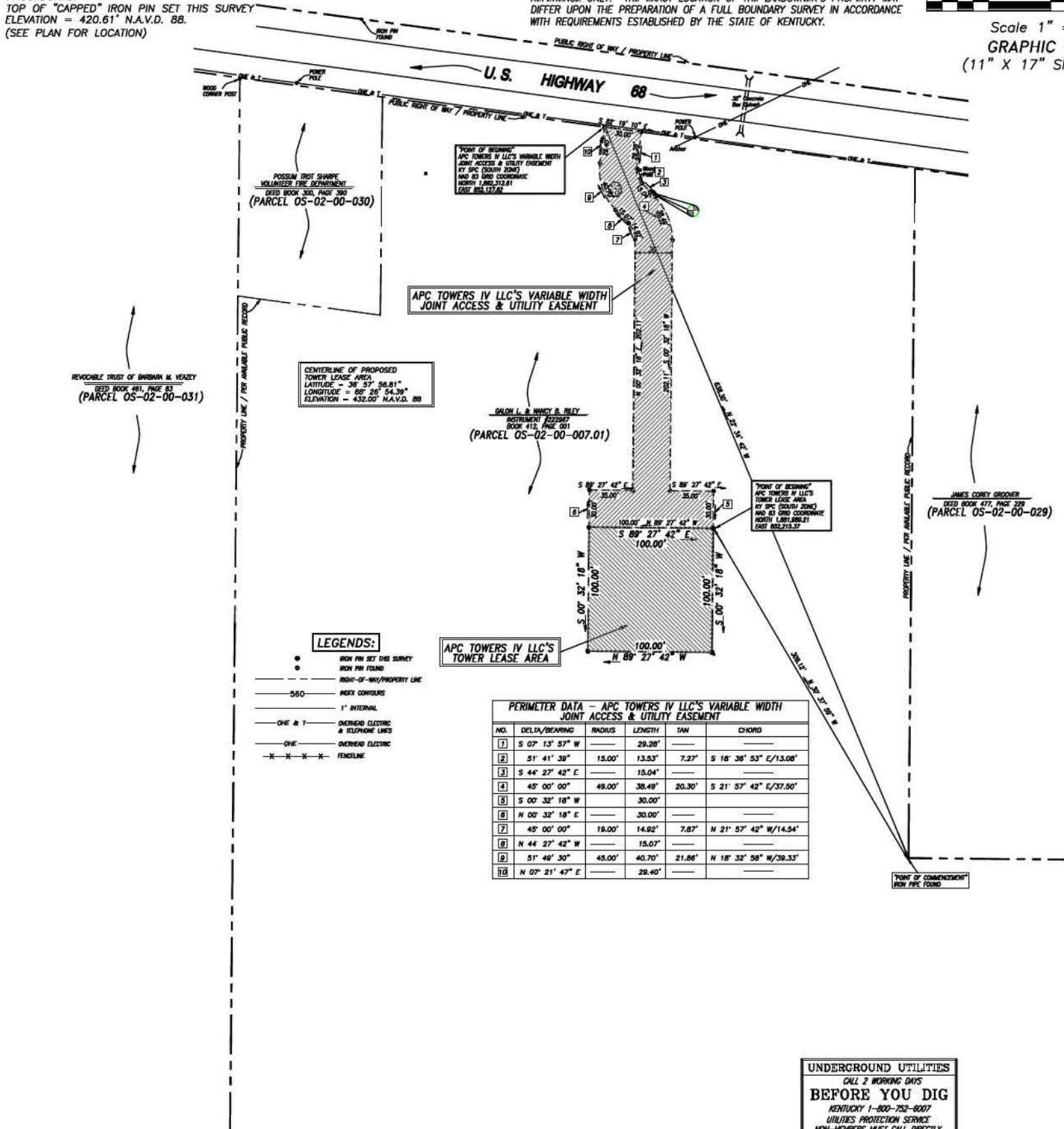
**SPECIAL NOTE:**

THIS SURVEY PLAN WAS PERFORMED UNDER THE AUTHORITY OF KENTUCKY REVISED STATUTES (201 KAR 18.150), AND IS NOT TO BE CONSIDERED A GENERAL PROPERTY BOUNDARY SURVEY AS DEFINED WITHIN KENTUCKY REVISED STATUTES. DIMENSIONS (IF SHOWN) ALONG THE PERIMETER OF THE LANDOWNER'S PROPERTY ARE PROVIDED UNDER THIS SURVEYOR'S SCOPE OF SERVICES WITH APC TOWERS IV LLC, AND ARE TO BE CONSIDERED FOR REFERENCE ONLY. THE EXACT LOCATION OF THE LANDOWNER'S PROPERTY MAY DIFFER UPON THE PREPARATION OF A FULL BOUNDARY SURVEY IN ACCORDANCE WITH REQUIREMENTS ESTABLISHED BY THE STATE OF KENTUCKY.

KY SPC (SOUTH ZONE)  
NAD 83 GRID NORTH



Scale 1" = 100'  
GRAPHIC SCALE  
(11" X 17" SHEET SIZE)



**LEGENDS:**

- IRON PIN SET THIS SURVEY
- IRON PIN FOUND
- RIGHT-OF-WAY/PROPERTY LINE
- 560 INDEX CONTOUR
- 1" INTERNAL
- ONE & T OVERHEAD ELECTRIC & TELEPHONE LINES
- ONE OVERHEAD ELECTRIC
- \* \* \* \* \* FENCELINE

**PERIMETER DATA - APC TOWERS IV LLC'S VARIABLE WIDTH JOINT ACCESS & UTILITY EASEMENT**

NO.	DELTA/BEARING	RADIUS	LENGTH	TAN	CHORD
1	S 07° 13' 57" W	---	29.20'	---	---
2	S 1° 41' 39" W	15.00'	13.53'	7.27'	S 18° 36' 53" E/13.00'
3	S 44° 27' 42" E	---	15.04'	---	---
4	45° 00' 00"	49.00'	38.49'	20.30'	S 21° 57' 42" E/37.50'
5	S 00° 32' 18" W	---	30.00'	---	---
6	N 00° 32' 18" E	---	30.00'	---	---
7	45° 00' 00"	19.00'	14.92'	7.87'	N 21° 57' 42" W/14.54'
8	N 44° 27' 42" W	---	15.07'	---	---
9	S 1° 49' 30" W	45.00'	40.70'	21.86'	N 18° 32' 58" W/39.33'
10	N 07° 21' 47" E	---	29.40'	---	---

**UNDERGROUND UTILITIES**  
CALL 2 WORKING DAYS  
**BEFORE YOU DIG**  
KENTUCKY 1-800-752-6007  
UTILITIES PROTECTION SERVICE  
NON-MEMBERS MUST CALL DIRECTLY

**GENERAL NOTES:**

- I HEREBY CERTIFY THAT THE SURVEY DEPICTED BY THIS PLAN WAS PREPARED BY PERSONS UNDER MY DIRECT SUPERVISION BY THE METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. THE UNADJUSTED PRECISION OF THE TRAVERSE RATIO WAS 1:18,436, AND WAS NOT ADJUSTED. THE SURVEY AS SHOWN HEREON IS AN URBAN SURVEY, AND THE ACCURACY AND PRECISION OF SAID SURVEY MEETS ALL THE SPECIFICATIONS OF THIS CLASS.  
*F. V. Neeley*  
FRANK V. NEELEY, P.L.S. 3093V DATE OCTOBER 27, 2023
- TOPOGRAPHIC ELEVATIONS SHOWN WERE DERIVED FROM GRID CROSS-SECTIONS, USING A TOTAL STATION FOR HORIZONTAL AND VERTICAL CONTROL. ALL DISTANCES MEASURED HAVE BEEN ADJUSTED FOR TEMPERATURE.
- PARCEL NUMBERS SHOWN THUS (00), ARE OF RECORD IN THE PROPERTY VALUATION OFFICE OF MARSHALL COUNTY, KENTUCKY.
- BEARINGS SHOWN ARE REFERENCED FROM GLOBALLY POSITIONED SATELLITE MONUMENTS AS ESTABLISHED FOR THIS SURVEY.
- PROPERTY OWNERS:  
GAYLON L. & NANCY B. RILEY  
758 MOUNT MORIAH ROAD  
BENTON, KY 42025
- IRON PINS SET ARE 18" MINIMUM LENGTH REINFORCING STEEL BARS WITH A PLASTIC CAPPED EMBOSSED "KY PLS #3093", UNLESS ROCK OR OTHER LIKE MATERIAL IS ENCOUNTERED.
- DATE OF FIELD SURVEY: TUESDAY, AUGUST 15, 2023.
- NOT VALID WITHOUT THE ORIGINAL SIGNATURE OF THE PROFESSIONAL LICENSED SURVEYOR.

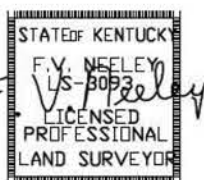
**UTILITY NOTE:**

THIS SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. ABOVE GRADE AND UNDERGROUND UTILITIES SHOWN WERE TAKEN FROM VISIBLE APPURTENANCES AT THE SITE, PUBLIC RECORDS AND/OR MAPS PREPARED BY OTHERS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES ARE IN THE EXACT LOCATION INDICATED. THEREFORE, RELIANCE UPON THE TYPE, SIZE AND LOCATION OF UTILITIES SHOWN SHOULD BE DONE SO WITH THIS CIRCUMSTANCE CONSIDERED. DETAILED VERIFICATION OF EXISTENCE, LOCATION AND DEPTH SHOULD ALSO BE MADE PRIOR TO ANY DECISION RELATIVE THERETO IS MADE. AVAILABILITY AND COST OF SERVICE SHOULD BE CONFIRMED WITH THE APPROPRIATE UTILITY COMPANY.

**GPS SURVEY CERTIFICATION:**

- THIS SURVEY WAS PERFORMED USING RTK POSITIONAL DATA.
- EQUIPMENT USED WAS A SOKKIA GRX3, DUAL FREQUENCY, BASE SERIAL # 1467-10585, ROVER SERIAL # 1467-10590.
- THE GRID COORDINATES OF THE FIXED STATION(S) SHOWN WERE DERIVED USING A VRS NETWORK OF THE CORPS STATIONS REFERENCING NAD 83 (2011), (EPOCH 2010), GEOID 12B.
- THE RELATIVE POSITIONAL ACCURACY OF THE GPS VECTORS DOES NOT EXCEED 0.1'H & 0.01' V.
- BEARINGS ARE RELATIVE TO KENTUCKY (SOUTH ZONE) STATE PLANE. ALL REFERENCES TO GRID BEARINGS AND KENTUCKY STATE PLANE (SOUTH ZONE) COORDINATES AS INDICATED ARE UNADJUSTED, NAD 83 SURVEY FEET, WITH CONVERGENCE ANGLE OF - 0.87116111 DEGREES, A SCALE FACTOR OF 0.99980481 DEGREES, AND A COMBINED FACTOR OF 0.99978919 DEGREES.

PLOT DATE: APRIL 16, 2024



PROJECT NUMBER:  
**223.086.20**

SHEET NUMBER:  
**2 OF 2**

APC TOWERS IV LLC SITE SURVEY: KENTUCKY  
"EV SHARPE" TOWER SITE  
LOCATED IN: MARSHALL COUNTY, KENTUCKY  
TOWER LEASE AREA SURVEY  
PREPARED FOR: APC TOWERS IV LLC  
APC TOWERS IV LLC SITE NUMBER: KY-1604

SHARONDALE  
SURVEYING  
INC.  
161 MARTIN ROAD  
BON AQUA, TN 37025  
(615) 513-0032  
E-Mail: Sharnda@bellsouth.net





**APC TOWERS IV LLC'S TOWER LEASE AREA DESCRIPTION**

Beginning at a capped "Sharondale Nashville" iron pin set at the northeast corner of APC Towers IV LLC's tower lease area located at Kentucky State Plane (South Zone) NAD 83 Grid Coordinate North 1,881,989.21, East 852,215.37, said iron pin being North 30 degrees 37 minutes 59 seconds West, 309.12 feet from an iron pipe found representing the southwest corner of the property conveyed to James Corey Groover, of record in Deed Book 477, Page 229, of the Court Clerk's Office of Marshall County, Kentucky;

Thence, South 00 degrees 32 minutes 18 seconds West, 100.00 feet to a capped "Sharondale Nashville" iron pin set at the southeast corner of APC Towers IV LLC's tower lease area;

Thence, North 89 degrees 27 minutes 42 seconds West, 100.00 feet to a capped "Sharondale Nashville" iron pin set at the southwest corner of APC Towers IV LLC's tower lease area;

Thence, North 00 degrees 32 minutes 18 seconds East, 100.00 feet to a capped "Sharondale Nashville" iron pin set at the southwest corner of APC Towers IV LLC's tower lease area;

Thence, South 89 degrees 28 minutes 42 seconds East, 100.00 feet to the point of beginning, containing 10,000 square feet, (0.230 acres).

Being a portion of the property conveyed to Galon L. Riley and wife, Nancy B. Riley, of record in Instrument No. 222967, Deed Book 412, Page 001, of the Court Clerk's Office of Marshall County, Kentucky.

**APC TOWERS IV LLC'S VARIABLE WIDTH JOINT ACCESS & UTILITY EASEMENT AREA DESCRIPTION**

Being a variable width joint access and utility easement extending from the south margin of U. S. Highway 68 to the north margin of APC Towers IV LLC's tower lease area, being more particularly described as follows:

Beginning at a capped "Sharondale Nashville" iron pin set in the south margin of U. S. Highway 68 located at Kentucky State Plane (South Zone) NAD 83 Grid Coordinate North 1,882,312.61, East 852,127.82, said iron pin being North 22 degrees 34 minutes 42 seconds West, 638.30 feet from an iron pipe found representing the southwest corner of the property conveyed to James Corey Groover, of record in Deed Book 477, Page 229, of the Court Clerk's Office of Marshall County, Kentucky;

Thence, with the south margin of U. S. Highway 68, South 82 degrees 19 minutes 10 seconds East, 30.00 feet to a capped "Sharondale Nashville" iron pin set;

Thence, leaving the south margin of U. S. Highway 68, South 7 degrees 13 minutes 57 seconds West, 29.28 feet to a point;

Thence, along a curve to the left with a central angle of 51 degrees 41 minutes 39 seconds, a radius of 15.00 feet, and a chord bearing of South 18 degrees 36 minutes 53 seconds East, 13.08 feet, a total distance of 13.53 feet to a point;

Thence, South 44 degrees 27 minutes 42 seconds East, 15.04 feet to a point;

Thence, along a curve to the right with a central angle of 45 degrees 00 minutes 00 seconds, a radius of 49.00 feet, and a chord bearing of South 21 degrees 57 minutes 42 seconds East, 37.50 feet, a total distance of 38.49 feet to a point;

Thence, South 00 degrees 32 minutes 18 seconds West, 202.11 feet to a point;

Thence, South 89 degrees 27 minutes 42 seconds East, 35.00 feet to a point;

Thence, South 00 degrees 32 minutes 18 seconds West, 30.00 feet to a capped "Sharondale Nashville" iron pin set at the northeast corner of the APC Towers IV LLC's tower lease area;

Thence, with the north margin of APC Towers IV LLC's tower lease area, North 89 degrees 27 minutes 42 seconds West, 100.00 feet to a capped "Sharondale Nashville" iron pin set at the northwest corner of APC Towers IV LLC's tower lease area;

Thence, leaving the north margin of APC Towers IV LLC's tower lease area, North 00 degrees 32 minutes 18 seconds East, 30.00 feet to a point;

Thence, South 89 degrees 27 minutes 42 seconds East, 35.00 feet to a point;

Thence, North 00 degrees 32 minutes 18 seconds East, 202.11 feet to a point;

Thence, along a curve to the left with a central angle of 45 degrees 00 minutes 00 seconds, a radius of 19.00 feet, and a chord bearing of North 21 degrees 57 minutes 42 seconds West, 14.54 feet, a total distance of 14.92 feet to a point;

Thence, North 44 degrees 27 minutes 42 seconds West, 15.07 feet to a point;

Thence, along a curve to the right with a central angle of 51 degrees 41 minutes 39 seconds, a radius of 45.00 feet, and a chord bearing of North 18 degrees 32 minutes 58 seconds West, 39.33 feet, a total distance of 40.70 feet to a point;

Thence, North 7 degrees 21 minutes 47 seconds East, 29.40 feet to the point of beginning, containing 12,010 square feet, (0.276 acres).

Being a portion of the property conveyed to Galon L. Riley and wife, Nancy B. Riley, of record in Instrument No. 222967, Deed Book 412, Page 001, of the Court Clerk's Office of Marshall County, Kentucky.

**UNDERLYING LANDOWNER'S PROPERTY AREA DESCRIPTION**

SITUATED IN THE FOLLOWING DESCRIBED LAND LYING IN MARSHALL COUNTY, KENTUCKY:

ALL THAT PART OF THE DR. FRANK FARM LYING ON THE SOUTH SIDE OF THE BENTON AND PADUCAH GRAVEL ROAD, (NEAR THE TOWN OF SHARPE, KY.) BEING 46.1 ACRES, MORE OR LESS, AND BEING THE EASTERN ONE-THIRD OF THE TRACT OF 138.3 ACRES, MORE OR LESS, WHICH TRACT WAS CONVEYED BY DEED FROM GROGAN AND OTHERS DATED MARCH 27TH, 1919 AND RECORDED IN DEED BOOK 45, PAGE 46, MARSHALL COUNTY COURT CLERK'S OFFICE. SAID TRACT HEREIN CONVEYED IS BOUNDED AS FOLLOWS: ON THE EAST J.M. PACE (NOW DRS. VERNON AND ERRETT PACE); ON THE SOUTH W.H. GORDON; ON THE WEST LAND NOW OCCUPIED BY T. B. WILLIAMS (NOW MCWATERS AND MEDLEY) AND ON THE NORTH BY THE PADUCAH AND BENTON ROAD, AND BEING IN ALL RESPECTS THE EASTERN ONE-THIRD OF THE SAID 138.3 ACRE TRACT (WITH EXCEPTION BELOW) AS CONVEYED TO THE GRANTOR FRED F. TITSWORTH BY DEED DATED NOVEMBER 22, 1926, OF RECORD IN DEED BOOK 49, PAGE 401, MARSHALL COUNTY COURT CLERK'S OFFICE.

EXCEPT: A TWO-ACRE TRACT CONVEYED FROM THE NORTHEAST CORNER OF THE ABOVE MENTIONED TRACT BY DEED FROM THE GRANTORS FRED F. TITSWORTH ET UX TO DORSE O'DELL ET UX BY DEED DATED JUNE 1, 1946, OF RECORD IN DEED BOOK 77, PAGE 85, MARSHALL COUNTY COURT CLERK'S OFFICE. SAID TWO ACRE TRACT IS MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT A POINT IN THE SOUTH LINE OF THE BENTON AND PADUCAH HIGHWAY, WHICH IS THE NORTH EAST CORNER OF THE TRACT HEREIN CONVEYED; RUNNING THENCE WEST WITH THE HIGHWAY FOR A DISTANCE OF 155 FEET TO AN IRON STAKE; THENCE SOUTH WITH THE LINE OF THE GRANTOR AND A DISTANCE OF 562 FEET TO AN IRON STAKE; THENCE EAST WITH GRANTOR'S LINE 155 FEET TO AN IRON STAKE; THENCE EAST WITH GRANTOR'S LINE 155 FEET TO AN IRON STAKE WHICH IS THE LINE OF J.M. AND TENNIE PACE; THENCE NORTH WITH PACE'S LINE 562 FEET BACK TO THE PLACE OF BEGINNING.

LESS AND EXCEPT:

TRACT I: APPROXIMATELY 3/10 OF AN ACRE LOCATED ON THE SOUTH SIDE OF HIGHWAY 68 AND MORE PARTICULARLY DESCRIBED AS: BEGINNING AT A POINT WHICH IS THE NORTHWEST CORNER OF THE GRANTOR'S FARM AND THE NORTHEAST CORNER OF THE JOHN CROWLEY FARM WHICH BEGINNING POINT IS LOCATED IN THE SOUTH RIGHT-OF-WAY OF HIGHWAY 68; THENCE, IN A SOUTHERLY DIRECTION AND WITH THE EAST LINE OF THE CROWLEY FARM A DISTANCE OF 175 FEET; THENCE, IN AN EASTERLY DIRECTION A DISTANCE OF 75 FEET; THENCE, IN A NORTHERLY DIRECTION A DISTANCE OF 175 FEET TO A SOUTH RIGHT-OF-WAY OF HIGHWAY 68; THENCE, IN A WESTERLY DIRECTION AND WITH THE SOUTH RIGHT-OF-WAY OF HIGHWAY 68 A DISTANCE OF 85 FEET TO THE POINT OF BEGINNING.

TRACT II: A 0.12 ACRE TRACT OF LAND AS SURVEYED BY CARL L. HOLT OF ROUTE 6, BENTON, KENTUCKY, IN FEBRUARY, 1993, AND BEING GENERALLY LOCATED ON THE SOUTH SIDE OF U.S. HIGHWAY 68, APPROXIMATELY ONE MILE EAST OF THE SHARPE COMMUNITY IN MARSHALL COUNTY, KENTUCKY, AND MORE PARTICULARLY DESCRIBED AS:

BEGINNING AT A HALF INCH REBAR IRON PIN SET 30 FEET SOUTH OF THE CENTERLINE OF HIGHWAY 68, SAID IRON PIN IS SET IN THE NORTHEAST CORNER OF THE ORIGINAL POSSUM TROT--SHARPE FIRE DEPARTMENT LOT AND SET APPROXIMATELY 0.65 MILE WEST OF THE INTERSECTION OF THE CENTERLINE OF U.S. HIGHWAY 68 WITH THE CENTERLINE OF KENTUCKY HIGHWAY 1610; THENCE, SOUTH 1 DEGREE 33 MINUTES EAST, 175.00 FEET ALONG THE EAST SIDE OF THE ORIGINAL FIRE DEPARTMENT'S LOT TO AN IRON PIN; THENCE, SOUTH 84 DEGREES 4 SECONDS EAST, 20.00 FEET ALONG A NEW DIVISION LINE TO AN IRON PIN; THENCE, NORTH 5 DEGREES 1 SECOND EAST, 173.53 FEET ALONG A NEW DIVISION LINE TO AN IRON PIN; THENCE NORTH 84 DEGREES 3 SECONDS WEST, 40.00 FEET ALONG THE SOUTH SIDE OF HIGHWAY 68 TO THE POINT OF BEGINNING.

Tax ID: 05-02-00-007.01

BEING THE SAME PROPERTY CONVEYED TO GALON L. RILEY AND WIFE, NANCY B. RILEY, JOINTLY AND EQUALLY, WITH TITLE TO VEST IN THE SURVIVOR OF THIS UNION, HIS 1/3 INTEREST, GRANTEE, FROM WILLIAM MARTIN RILEY, SINGLE, GRANTOR, BY DEED RECORDED 04/19/2012, AS INSTRUMENT #222967, BOOK 412, PAGE 1 OF THE COUNTY RECORDS.

STATE OF KENTUCKY  
F.V. NEELEY  
LS-8082  
LICENSED  
PROFESSIONAL  
LAND SURVEYOR

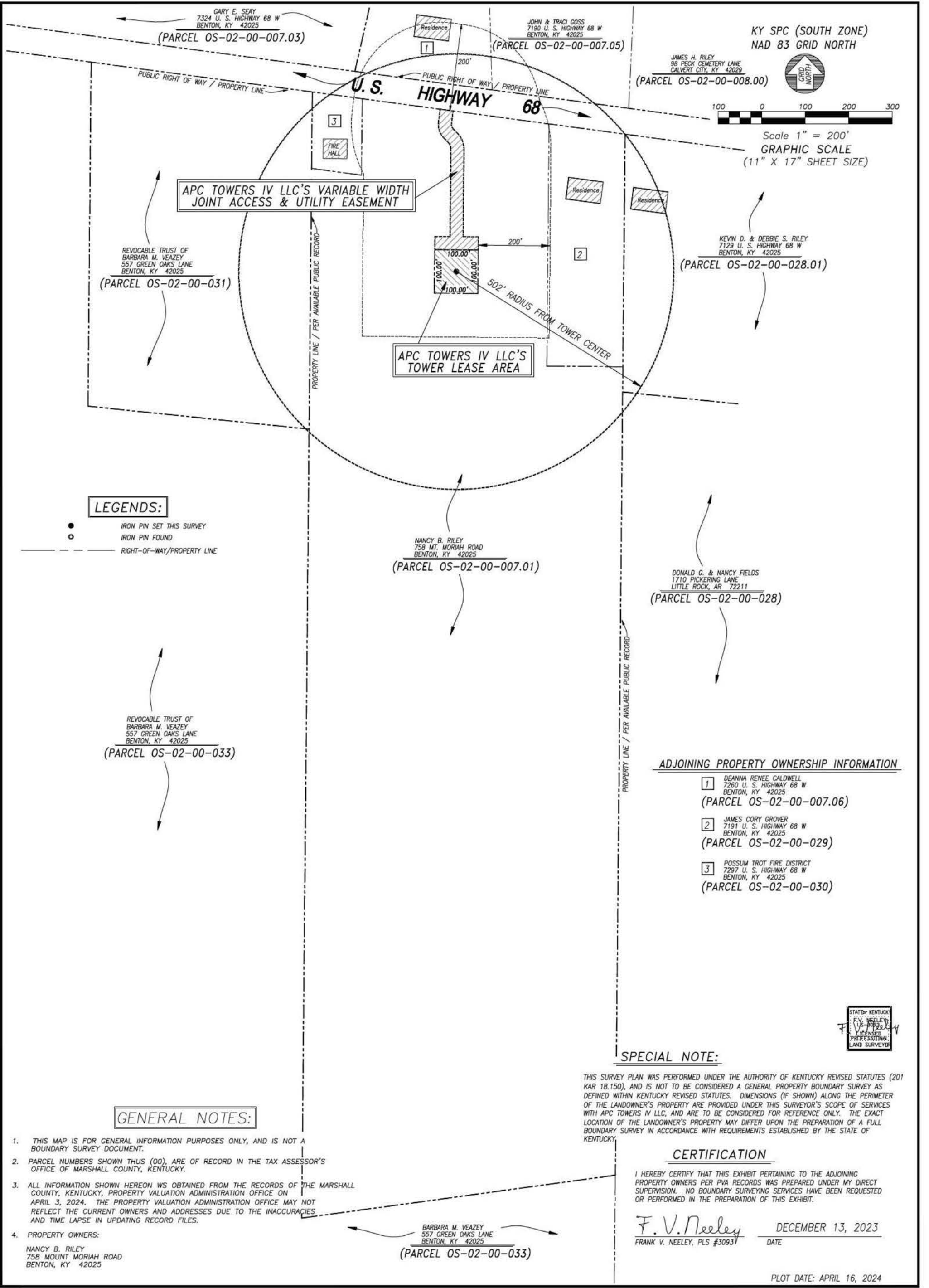
**SURVEYOR'S REVIEW OF "SPECIAL EXCEPTIONS"**

NOTES CORRESPONDING TO OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY'S "TITLE COMMITMENT" - COMMITMENT NO. 01-23007294-01T, ISSUED MARCH 21, 2023.  
THERE ARE NO "SPECIAL EXCEPTIONS" CONTAINED IN THIS TITLE COMMITMENT.

PLOT DATE: APRIL 16, 2024

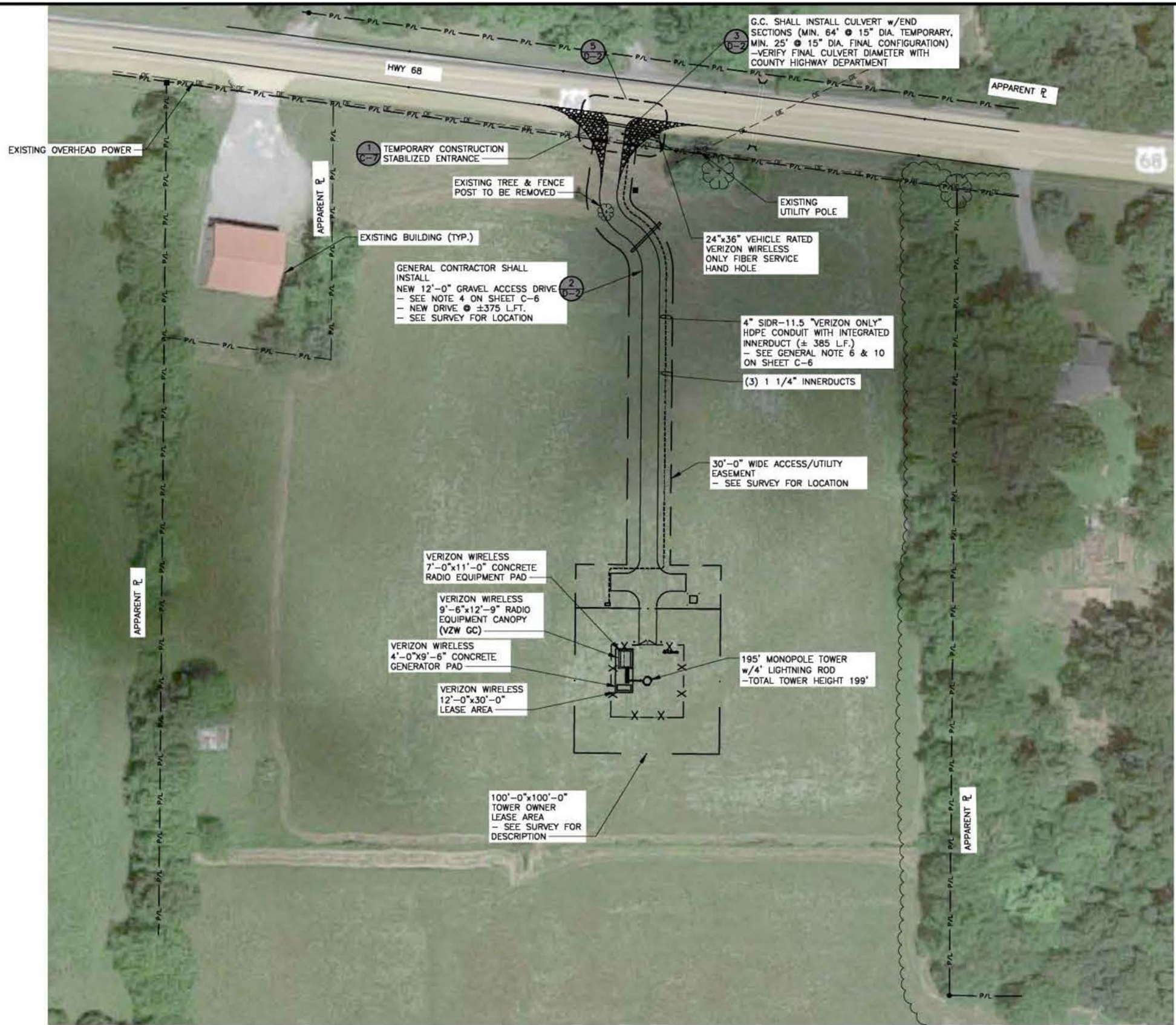
PROJECT NUMBER: 223.086.20	SHEET NUMBER: 2 OF 2	APC TOWERS IV LLC SITE SURVEY: KENTUCKY "EV SHARPE" TOWER SITE LOCATED IN: MARSHALL COUNTY, KENTUCKY TOWER LEASE AREA SURVEY PREPARED FOR: APC TOWERS IV LLC APC TOWERS IV LLC SITE NUMBER: KY-1604	SHARONDALE SURVEYING INC. 161 MARTIN ROAD BON AQUA, TN 37025 (615) 513-0032 E-Mail: Sharndal@bellsouth.net	







J:\APC Towers\EV Sharpe - Rawland - 240739-01-001\Drawings\EV SHARP\_MIK Rev 3 Final.dwg, C-1, 4/18/2024 7:08:57 AM, jlashbrook



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 3001 TAYLOR SPRINGS DRIVE  
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 PHONE: (502) 459-8402  
 FAX: (502) 459-8427

**APC Towers**  
 8801 SIX FORKS ROAD, SUITE 250  
 RALEIGH, NC 27615  
 PHONE (919) 249-7732

REV	DATE	DESCRIPTION
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1	12/15/23	ISSUE FOR ZONING
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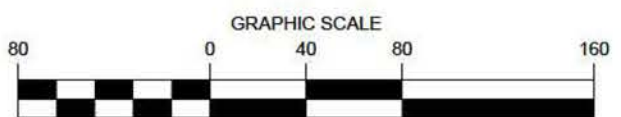
EV SHARPE  
 US HIGHWAY 68  
 BENTON, KY 42025  
 OVERALL SITE PLAN W/  
 AERIAL OVERLAY

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	CWS

JOB NUMBER  
 240739-01-001

C-1  
 MK: P&C & CANOPY REV 3 FINAL 10/16/23



**OVERALL SITE PLAN  
 w/AERIAL OVERLAY**  
 SCALE: 1" = 80'



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



REV	DATE	DESCRIPTION
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EV SHARPE  
US HIGHWAY 68  
BENTON, KY 42025

OVERALL SITE PLAN W/  
PLATFORM DISTANCE TO  
PROPERTY LINES

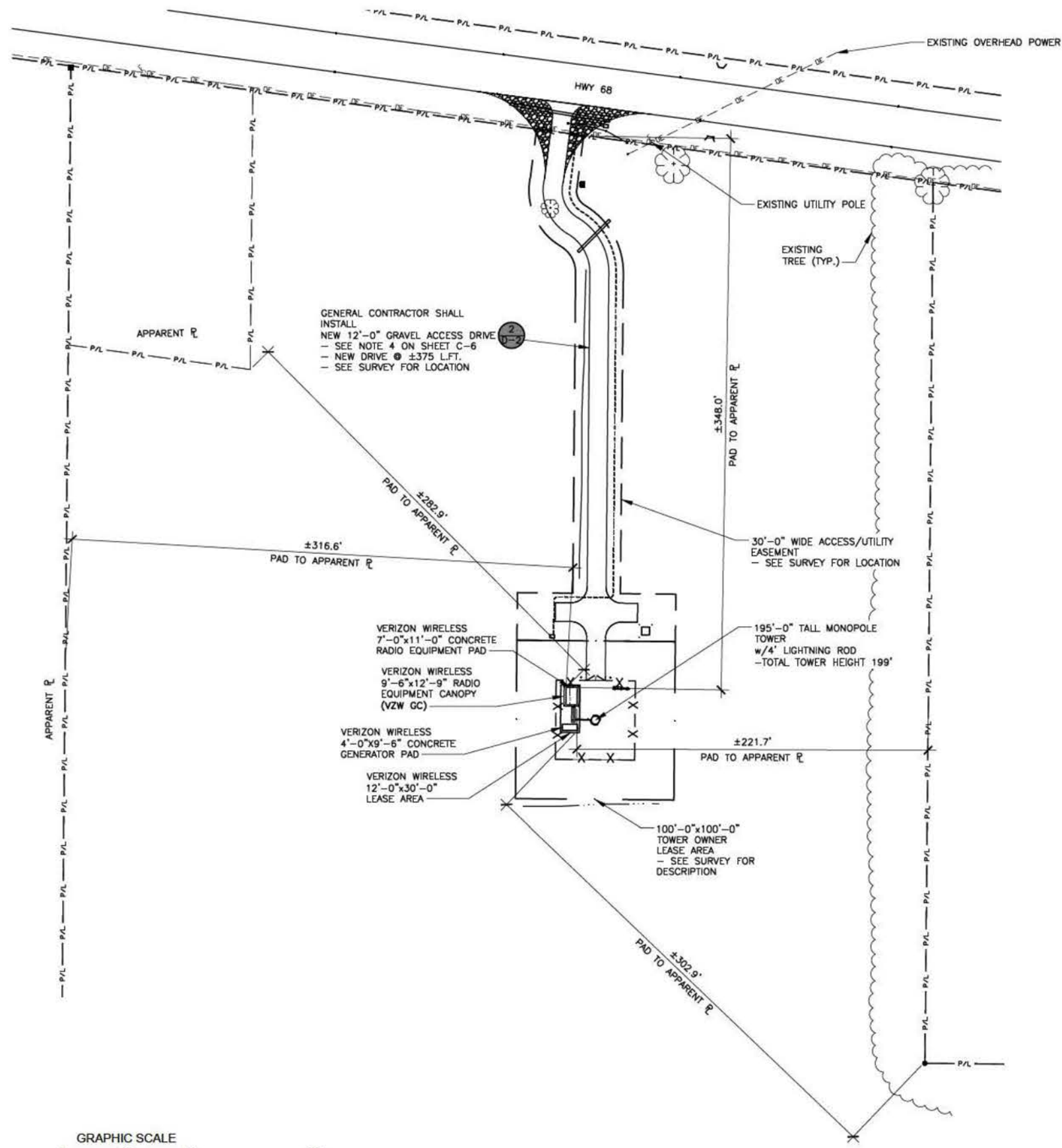
ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	CWS

JOB NUMBER  
240739-01-001

**C-1A**

MK PAD & CANOPY REV 3 FINAL 10/16/23



GENERAL CONTRACTOR SHALL  
INSTALL  
NEW 12'-0" GRAVEL ACCESS DRIVE  
- SEE NOTE 4 ON SHEET C-6  
- NEW DRIVE @ ±375 L.F.T.  
- SEE SURVEY FOR LOCATION

VERIZON WIRELESS  
7'-0" x 11'-0" CONCRETE  
RADIO EQUIPMENT PAD

VERIZON WIRELESS  
9'-6" x 12'-9" RADIO  
EQUIPMENT CANOPY  
(VZW GC)

VERIZON WIRELESS  
4'-0" x 9'-6" CONCRETE  
GENERATOR PAD

VERIZON WIRELESS  
12'-0" x 30'-0"  
LEASE AREA

100'-0" x 100'-0"  
TOWER OWNER  
LEASE AREA  
- SEE SURVEY FOR  
DESCRIPTION

195'-0" TALL MONOPOLE  
TOWER  
w/4" LIGHTNING ROD  
- TOTAL TOWER HEIGHT 199'

30'-0" WIDE ACCESS/UTILITY  
EASEMENT  
- SEE SURVEY FOR LOCATION

EXISTING UTILITY POLE

EXISTING TREE (TYP.)

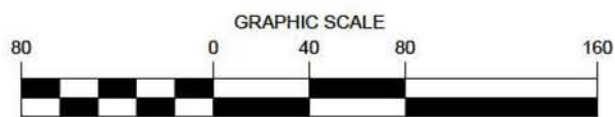
EXISTING OVERHEAD POWER



Know what's below.  
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PER KENTUCKY STATE LAW, IT IS AGAINST THE  
LAW TO EXCAVATE WITHOUT NOTIFYING THE  
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WORKING DAYS BEFORE COMMENCING WORK.



**OVERALL SITE PLAN w/PAD  
DISTANCE TO PROPERTY LINES**

SCALE: 1" = 80'





REV	DATE	DESCRIPTION
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2	04/17/24	ISSUE FOR ZONING



EV SHARPE  
US HIGHWAY 68  
BENTON, KY 42025

TOWER DISTANCE TO  
RESIDENTIAL STRUCTURES

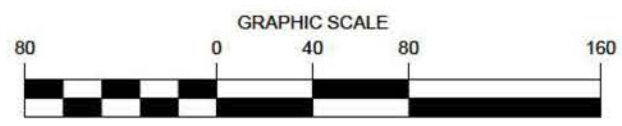
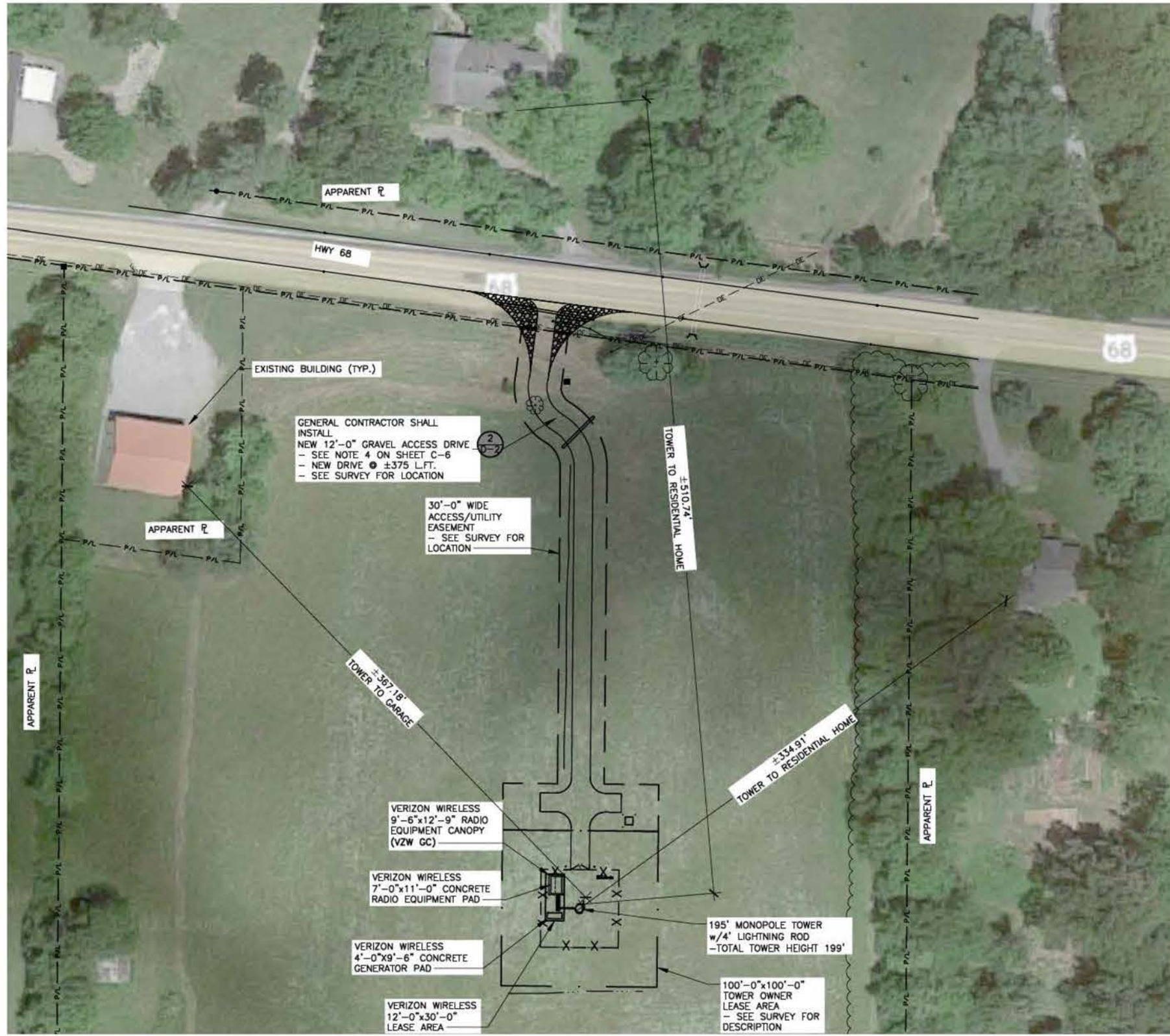
ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	CWS

JOB NUMBER  
240739-01-001

**C-1B**

MK PAD & CANOPY REV 3 FINAL 10/16/23



**TOWER DISTANCE TO  
RESIDENTIAL STRUCTURES**

SCALE: 1" = 80'

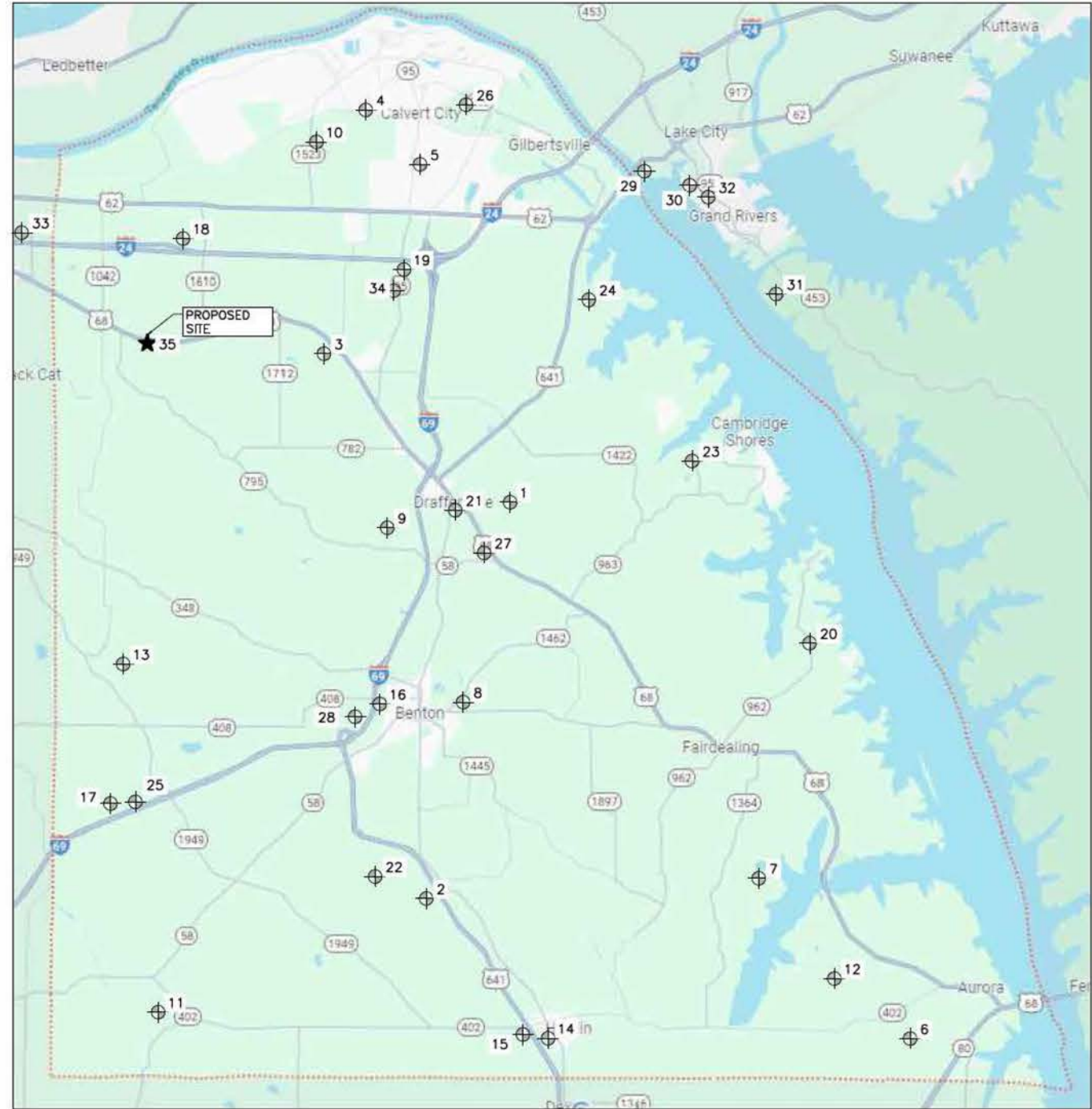


**Kentucky 811**  
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UNDERGROUND LOCATION SERVICE TWO (2)  
WORKING DAYS BEFORE COMMENCING WORK.



**FCC REGISTERED SITES  
(MARSHALL COUNTY)**

TOWER	ASR	LATITUDE	LONGITUDE	TOWER OWNER
1	1030666	36° 54' 58.8" N	88° 18' 48.9" W	Crown Castle GT Company, LLC
2	1038664	36° 47' 53.0" N	88° 20' 50.0" W	Jack Dunnigan
3	1039662	36° 57' 47.0" N	88° 23' 06.0" W	Texas Gas Transmission, LLC
4	1040303	37° 02' 00.0" N	88° 22' 10.0" W	Pinnacle Towers LLC
5	1041840	37° 01' 05.0" N	88° 21' 7.0" W	Calvert City, KY
6	1043411	36° 45' 30.7" N	88° 10' 11.4" W	Crown Castle South LLC
7	1044649	36° 48' 31.0" N	88° 13' 26.0" W	Heartland Ministries Inc WVHM
8	1044669	36° 51' 31.0" N	88° 20' 11.0" W	Purchase Broadcasting Company WCBL
9	1052496	36° 54' 37.7" N	88° 21' 25.3" W	Crown Castle South LLC
10	1053410	37° 01' 26.0" N	88° 23' 24.0" W	Withers Broadcasting Company of Paducah, LLC
11	1058357	36° 45' 58.3" N	88° 26' 33.6" W	Kentucky RSA No.1 Partnership
12	1200973	36° 46' 33.9" N	88° 11' 35.7" W	Kentucky RSA No.1 Partnership
13	1201214	36° 52' 19.0" N	88° 27' 23.0" W	West Kentucky Rural Electric Coop Corp
14	1202514	36° 45' 45.0" N	88° 18' 17.0" W	West Kentucky Rural Telephone Coop Corp Inc.
15	1215863	36° 45' 46.2" N	88° 18' 41.4" W	SBA Properties, LLC
16	1221947	36° 51' 33.5" N	88° 21' 59.2" W	SBA Properties, LLC
17	1221975	36° 49' 23.1" N	88° 28' 34.5" W	SBA Properties, LLC
18	1222118	36° 59' 45.3" N	88° 25' 59.1" W	SBA Properties, LLC
19	1222232	36° 59' 09.9" N	88° 21' 18.6" W	SBA Properties, LLC
20	1223751	36° 52' 41.6" N	88° 12' 19.4" W	Crown Castle GT Company LLC
21	1233410	36° 54' 55.2" N	88° 20' 15.1" W	County of Marshall, KY
22	1235812	36° 48' 36.1" N	88° 21' 33.1" W	Mobile Communications America INC.
23	1264821	36° 55' 46.1" N	88° 14' 53.8" W	SBA Towers II LLC
24	1301361	36° 58' 37.3" N	88° 17' 10.5" W	PI Tower Development, LLC
25	1304962	36° 49' 24.3" N	88° 28' 25.5" W	Tillman Infrastructure, LLC
26	1306050	37° 02' 10.8" N	88° 19' 56.2" W	Skyway Towers, LLC
27	1313735	36° 54' 10.5" N	88° 19' 24.9" W	CTI Towers Assets II, LLC
28	1315674	36° 51' 12.0" N	88° 22' 23.9" W	Tillman Infrastructure, LLC
29	1289476	37° 00' 56.2" N	88° 15' 56.3" W	US Army Corps Of Engineers
30	1235865	37° 00' 33.0" N	88° 14' 56.0" W	Tennessee Valley Authority
31	1043449	36° 58' 44.5" N	88° 13' 01.1" W	American Towers LLC
32	1241571	37° 00' 29.5" N	88° 14' 35.9" W	City of Grand Rivers (Granted)
33	1210728	36° 59' 45.6" N	88° 29' 30.2" W	Crown Castle South LLC (Granted)
34	1321782	36° 59' 03.2" N	88° 21' 28.9" W	Tillman Infrastructure, LLC (Granted)
<b>35</b>	<b>1327645</b>	<b>36° 57' 56.81" N</b>	<b>88° 26' 54.39" W</b>	<b>APC TOWERS (GRANTED TOWER)</b>



**COUNTY TOWER MAP**

SCALE: N/A



**Bowman**

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LANDSCAPE ARCHITECTS, PLANNERS AND  
SURVEYORS  
3001 TAYLOR SPRINGS DRIVE  
LOUISVILLE, KENTUCKY 40220  
PHONE: (502) 499-8402  
FAX: (502) 499-8427

**APC Towers**

6801 SIX FORKS ROAD, SUITE 250  
RALEIGH, NC 27615  
PHONE (919) 249-7732

REV	DATE	DESCRIPTION
0	12/07/23	ISSUE FOR ZONING
1	12/15/23	ISSUE FOR ZONING
2	04/17/24	ISSUE FOR ZONING



EV SHARPE  
US HIGHWAY 68  
BENTON, KY 42025

COUNTY TOWER MAP

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	CWS

JOB NUMBER  
240739-01-001

**C-1C**

MK: PWD & CANOPY REV 3 FINAL 10/16/23



REV	DATE	DESCRIPTION
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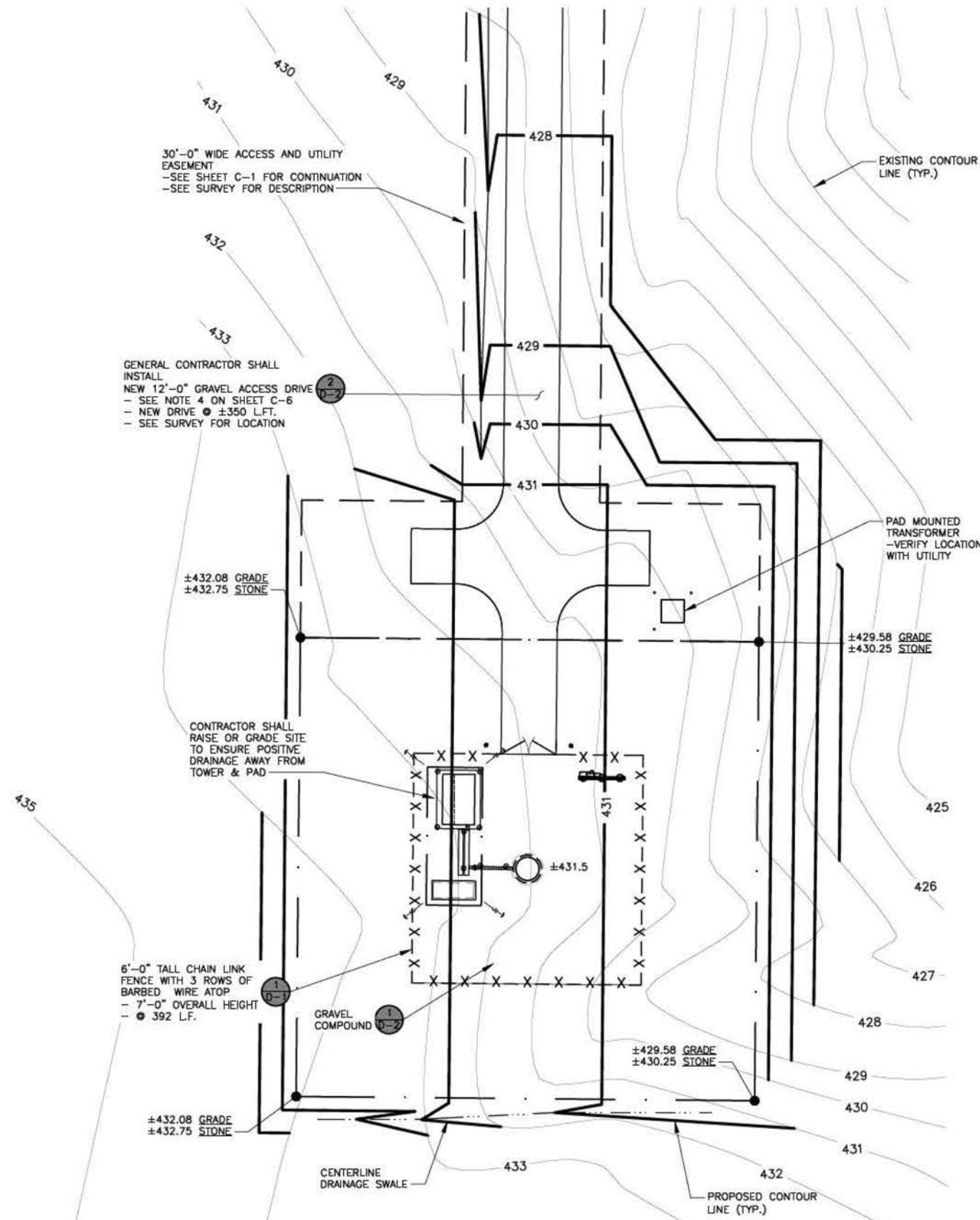
EV SHARPE  
US HIGHWAY 68  
BENTON, KY 42025  
GRADING AND E&S  
CONTROL PLAN

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	CWS

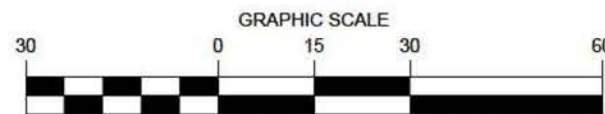
JOB NUMBER  
240739-01-001

C-2



**GRADING AND E&S CONTROL PLAN**

SCALE: 1" = 30'



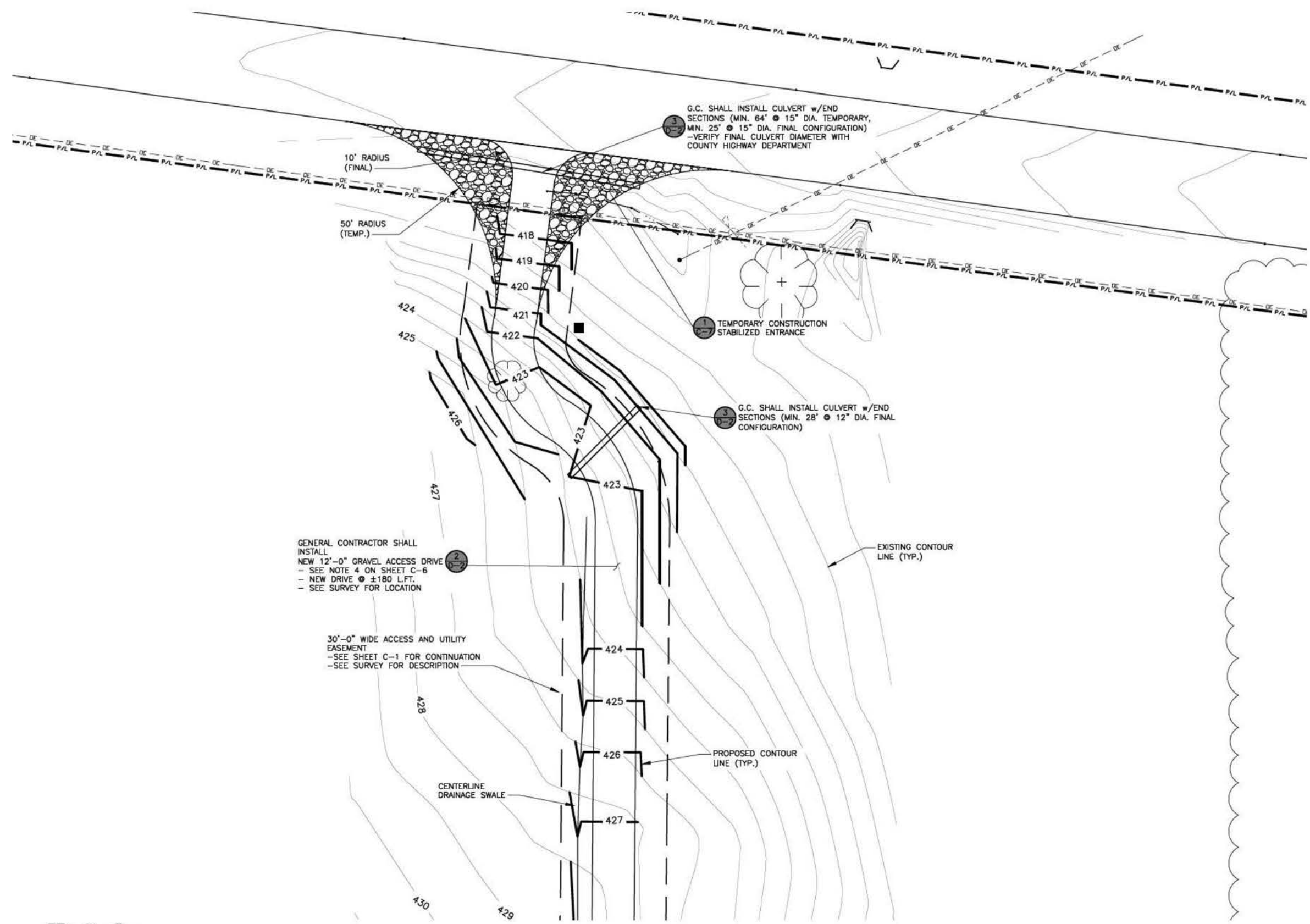
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EV SHARPE  
US HIGHWAY 68  
BENTON, KY 42025  
GRADING AND E&S  
CONTROL PLAN

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	CWS

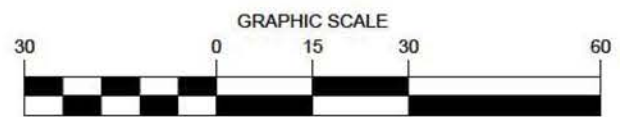
JOB NUMBER  
240739-01-001

C-2A

MIK: PWD & CANOPY REV 3 FINAL 10/16/23



**GRADING AND E&S  
CONTROL PLAN**  
SCALE: 1" = 30'



REV	DATE	DESCRIPTION
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EV SHARPE  
US HIGHWAY 68  
BENTON, KY 42025

DETAILED SITE PLAN

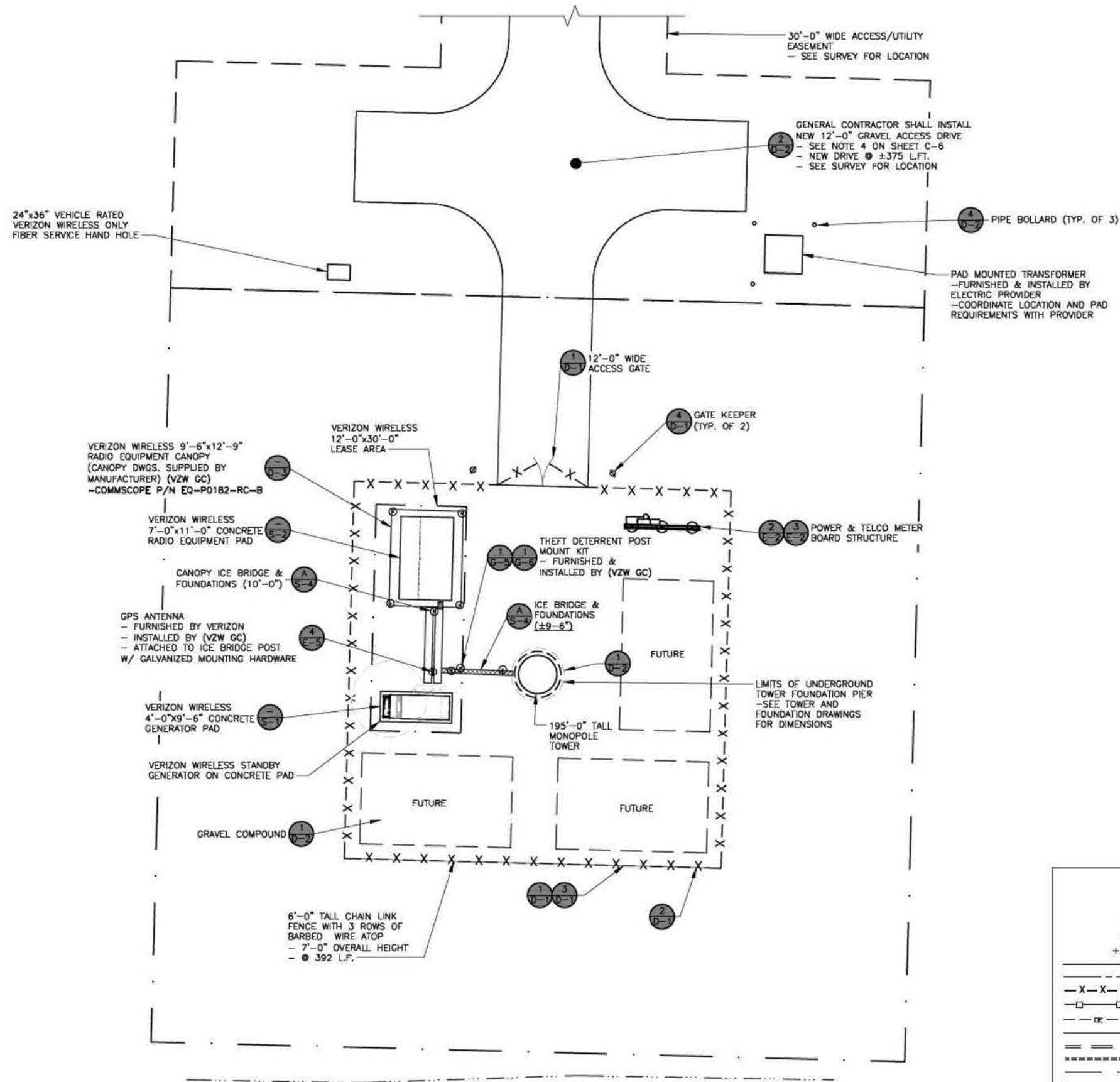
ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	CWS

JOB NUMBER  
240739-01-001

C-3



**LEGEND**

	IRON PIN
	DRAINAGE LINE
	SPOT ELEVATION
	GRAVEL COMPOUND
	CENTER LINE
	NEW FENCE LINE
	NEW SILT FENCE LINE
	POWER POLEw/OVERHEAD ELEC./TELE.
	EDGE OF NEW DRIVE
	UNDERGROUND ELECTRICAL CONDUIT
	UNDERGROUND TELEPHONE CONDUIT
	EXISTING CONTOURS
	NEW CONTOURS
	FENCED COMPOUND
	CONCRETE
	ACCESS DRIVE

**DETAILED SITE PLAN**

SCALE: 1/16" = 1'-0"



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

**Kentucky 811**  
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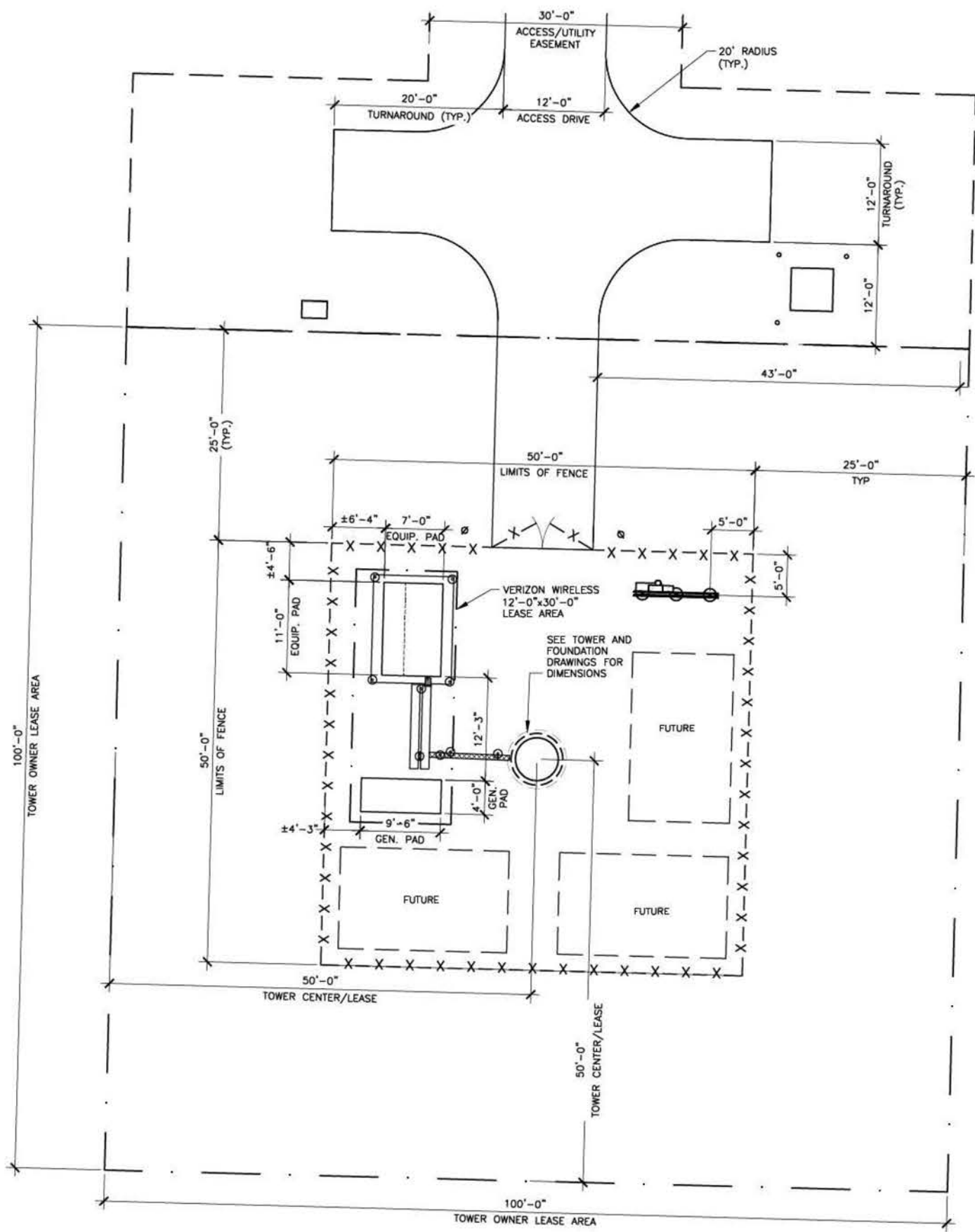


EV SHARPE  
US HIGHWAY 68  
BENTON, KY 42025  
DIMENSIONED SITE PLAN

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-
PROJECT MANAGER	DESIGNER
JTL	CWS

JOB NUMBER  
240739-01-001

C-4



**LEGEND**

- IRON PIN
- DRAINAGE LINE
- SPOT ELEVATION
- GRAVEL COMPOUND
- CENTER LINE
- NEW FENCE LINE
- NEW SILT FENCE LINE
- POWER POLE/OVERHEAD ELEC./TELE
- EDGE OF NEW DRIVE
- UNDERGROUND ELECTRICAL CONDUIT
- UNDERGROUND TELEPHONE CONDUIT
- EXISTING CONTOURS
- NEW CONTOURS
- NEW LEASE AREA AND EASEMENT
- FENCED COMPOUND
- CONCRETE
- ACCESS DRIVE

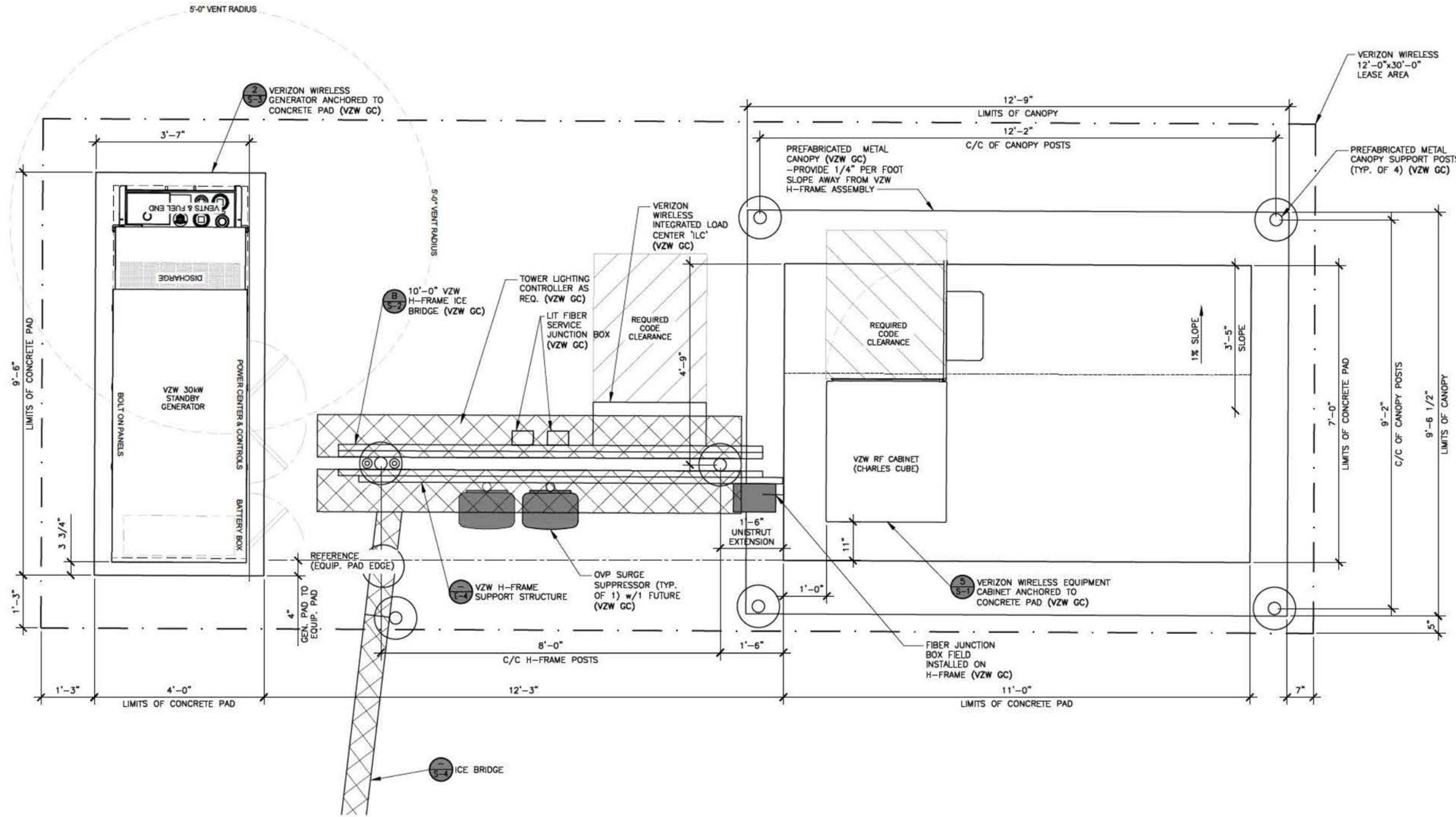
**DIMENSIONED SITE PLAN**

SCALE: 1/16" = 1'-0"



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THERE IS NO DISTURBANCE OF  
PROPERTY, SOIL, ETC. OUTSIDE OF  
THE STAKED LEASE AREA WITHOUT  
APPROVAL FROM VERIZON WIRELESS  
CONSTRUCTION MANAGER



**DETAILED VZW EQUIPMENT PLAN**

SCALE: 3/8" = 1'-0"



REV	DATE	DESCRIPTION
0	12/07/23	ISSUE FOR ZONING
1	12/15/23	ISSUE FOR ZONING
2	04/17/24	ISSUE FOR ZONING



EV SHARPE  
US HIGHWAY 68  
BENTON, KY 42025  
**DETAILED EQUIPMENT PAD  
PLAN**

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	CWS

JOB NUMBER  
240739-01-001

**C-5**

MK PAD & CANOPY REV 3 FINAL 10/16/23



Know what's below.  
Call before you dig.

Call Monday thru Friday - 7 am. to 6 pm.  
1-800-752-6007

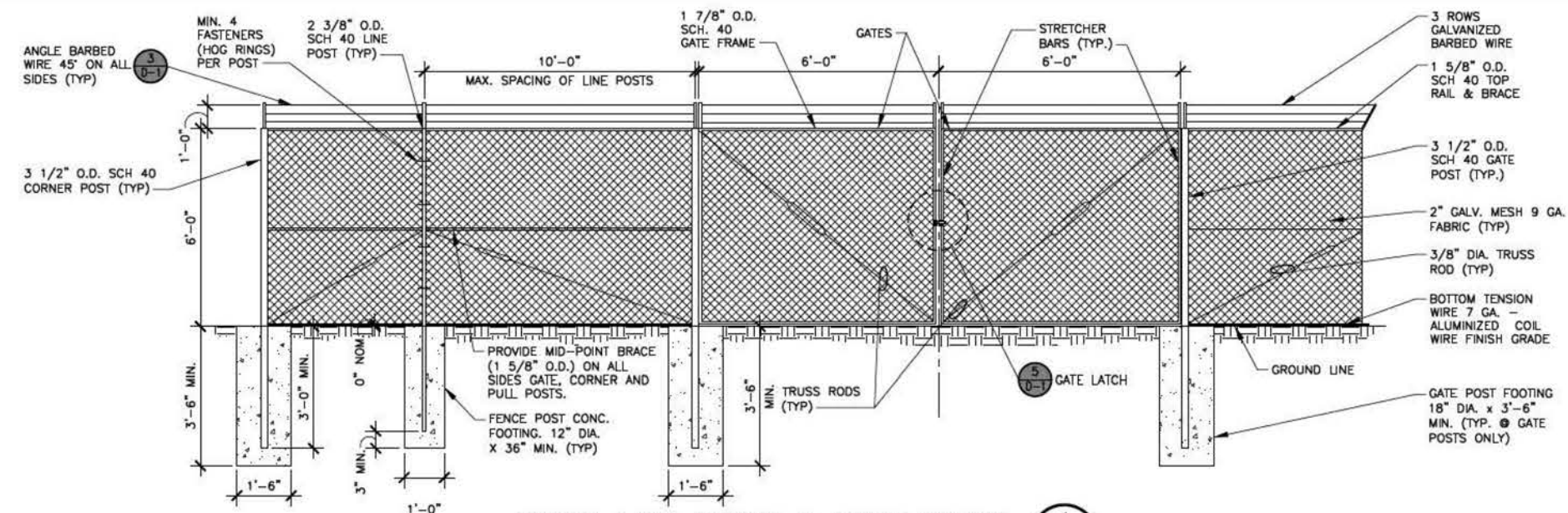
PER KENTUCKY STATE LAW, IT IS AGAINST THE  
LAW TO EXCAVATE WITHOUT NOTIFYING THE  
UNDERGROUND LOCATION SERVICE TWO (2)  
WORKING DAYS BEFORE COMMENCING WORK.

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

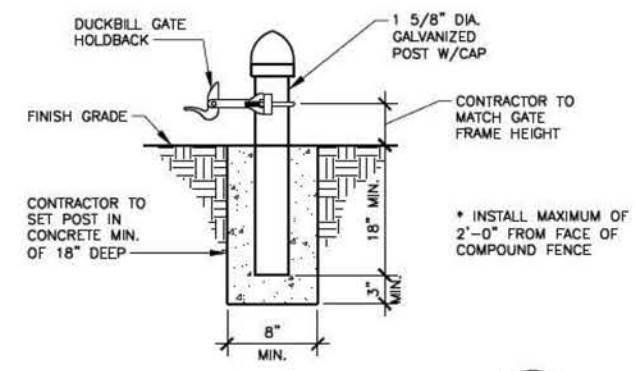


### CHAIN LINK FENCING NOTES

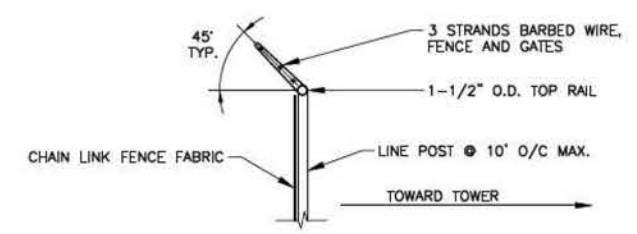
1. ALL FENCE AND FABRIC SHALL BE HOT DIPPED GALVANIZED WITH A MINIMUM OF 2 OZ. PER SQUARE FOOT, 9 GAUGE WIRE (MIN. BREAKING STRENGTH OF 1,290 LBS) WITH 2" MESH. ALL BARBED WIRE SHALL BE ALUMINUM OR COATED PER NOTE #4.
2. BOTTOM EDGE OF FENCE FABRIC SHALL EXTEND TO FINISHED GRADE.
3. SITE FENCE SHALL BE 6'-0" FABRIC W/ 3 STRAND BARBED WIRE FOR TOTAL HEIGHT OF 7'-0".
4. BARBED WIRE SHALL MEET ASTM A 121, CLASS 3 GALV. OR ASTM A 585, TYPE 1, CLASS 2 COATING (NOT LESS THAN 0.8 OZ. PER SQ. FT.) AND SHALL BE THREE STRAND 12.5 GAGE W/4 POINT BARBS AT 5" O/C.
5. BOTTOM OF CONCRETE BASE SHALL BE SET BELOW FROSTLINE (SEE LOCAL CODE). WHERE SOIL BEARING CAPACITY IS LESS THAN 2000 PSF, INCREASE CONCRETE SURROUNDING FENCE POST FOUNDATION DIAMETERS BY 8", PROVIDE CONCRETE WITH A 28 DAY STRENGTH OF 3000 PSI (MIN.)
6. PROVIDE A DIAGONAL BRACE ROD AND TURN BUCKLE ON BOTH GATE LEAFS.
7. ALL RAILS AND BRACES SHALL BE SCHEDULE 40 STEEL PIPE, AND ALL FENCE POSTS SHALL BE SCHEDULE 40 STEEL PIPE, AND BE 2 OZ. GALVANIZED COATED.
8. CONTRACTOR SHALL ENSURE ALL POSTS ARE PLUMB.
9. ALL FENCE SHALL BE FABRICATED AND INSTALLED PER ASTM F2611-15, ASTM F567-14d AND CHAIN LINK FENCE MANUFACTURES INSTITUTE CLFMI-PM 2445.
10. CONTRACTOR SHALL FURNISH AND INSTALL ONE (1) MASTER LOCK LONG SHANK #175LH COMBINATION PADLOCK. COMBINATION TO BE SET AT 7011.



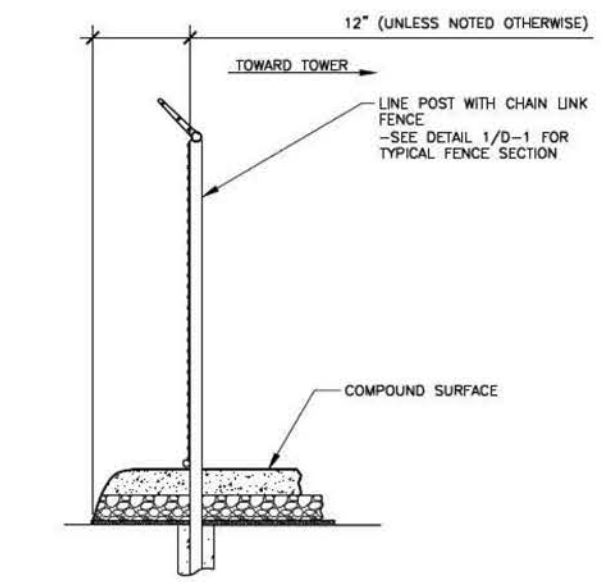
**CHAIN LINK FENCE & POST DETAIL 1**  
SCALE: N.T.S.



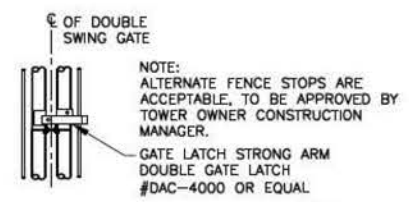
**GATE KEEPER DETAIL 4**  
SCALE: N.T.S.



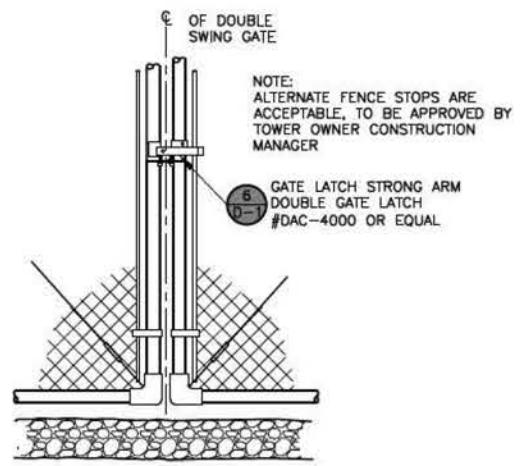
**TYPICAL BARBED WIRE DETAIL 3**  
SCALE: N.T.S.



**SITE AREA SURFACING 2**  
SCALE: N.T.S.



**GATE LATCH DETAIL 6**  
SCALE: N.T.S.



**GATE LATCH DETAIL 5**  
SCALE: N.T.S.

**Bowman**  
CONSULTING ENGINEERS,  
LANDSCAPE ARCHITECTS, PLANNERS AND  
SURVEYORS  
3001 TAYLOR SPRINGS DRIVE  
LOUISVILLE, KENTUCKY 40220  
PHONE: (502) 456-8402  
FAX: (502) 456-8427

**APC Towers**  
8801 SIX FORKS ROAD, SUITE 250  
RALEIGH, NC 27615  
PHONE (919) 249-7732

REV	DATE	DESCRIPTION
0	12/07/23	ISSUE FOR ZONING
1	12/15/23	ISSUE FOR ZONING
2	04/17/24	ISSUE FOR ZONING

STATE OF KENTUCKY  
JEFFREY LASHBROOK  
35042  
LICENSED PROFESSIONAL ENGINEER  
CIVIL

EV SHARPE  
US HIGHWAY 68  
BENTON, KY 42025  
FENCE DETAILS AND NOTES

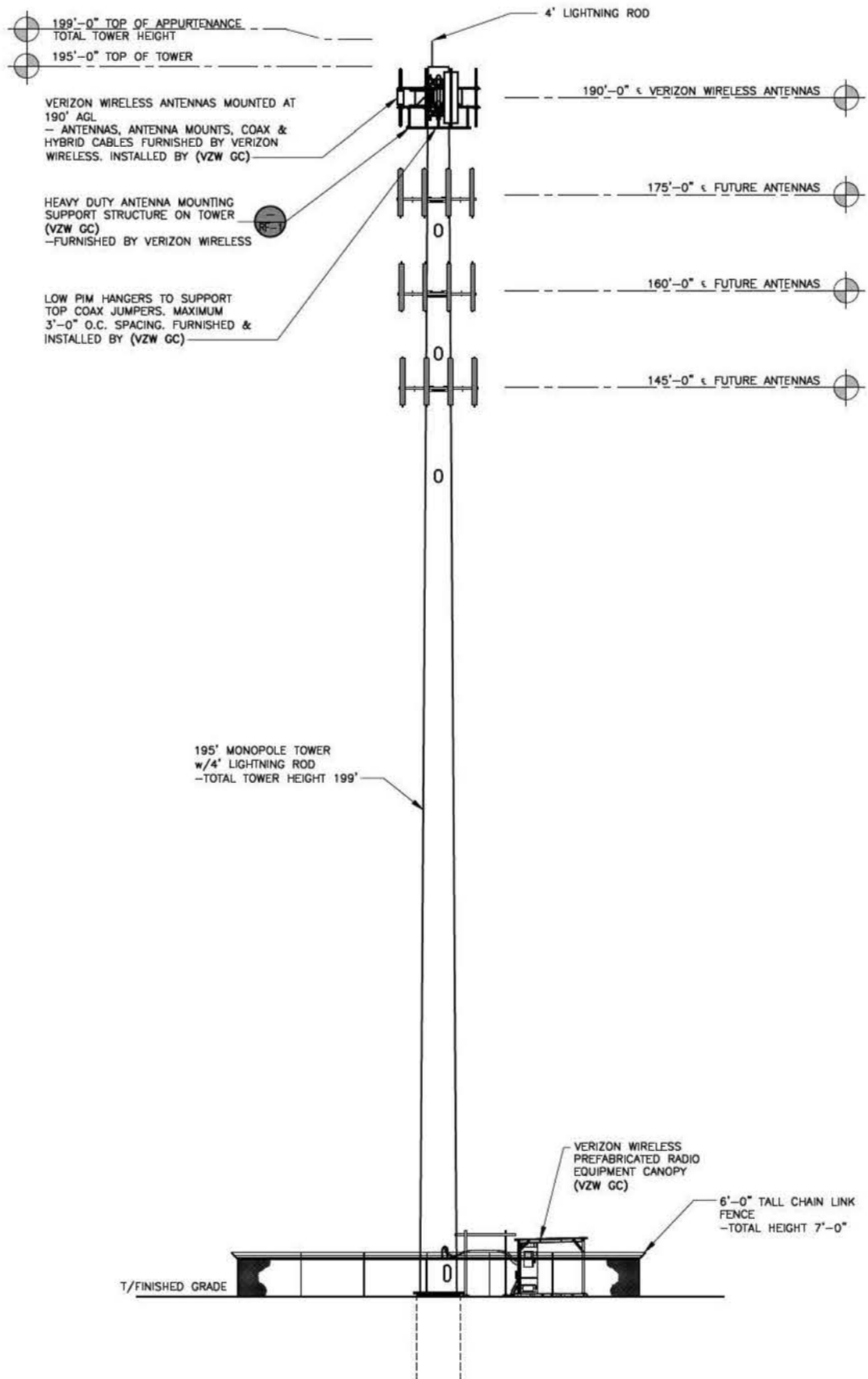
ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	CWS

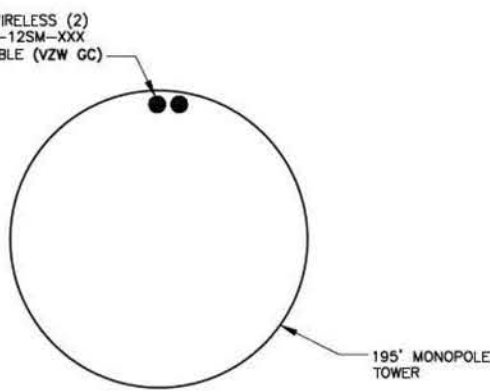
JOB NUMBER  
240739-01-001

D-1

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



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

**NOTE:**  
1. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL ANTENNA INFORMATION AGAINST FINAL RADIO ENGINEERING PLAN PROVIDED BY VERIZON LEGAL BUSINESS ENTITY d/b/a VERIZON WIRELESS (VZW GC)

**Bowman**  
CONSULTING ENGINEERS,  
LANDSCAPE ARCHITECTS, PLANNERS AND  
SURVEYORS  
3001 TAYLOR SPRINGS DRIVE  
LOUISVILLE, KENTUCKY 40220  
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**APC Towers**  
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PHONE (919) 249-7732

REV	DATE	DESCRIPTION
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EV SHARPE  
US HIGHWAY 68  
BENTON, KY 42025  
TOWER ELEVATION

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

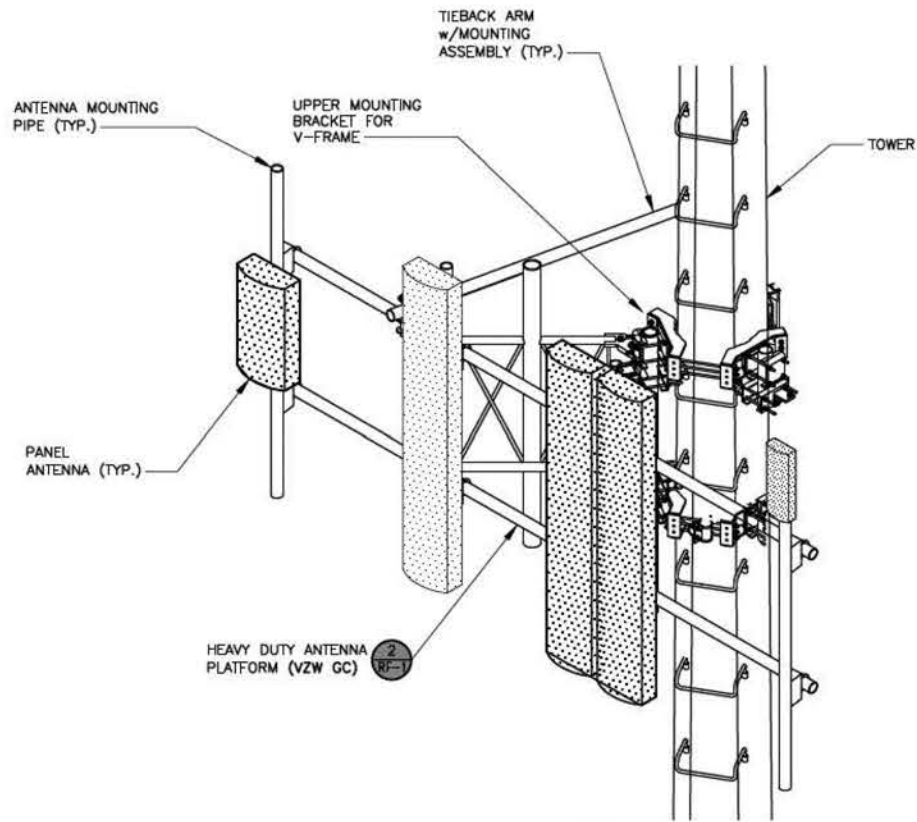
PROJECT MANAGER	DESIGNER
JTL	CWS

JOB NUMBER  
240739-01-001

**TE-1**

MR. PNO & CANOPY REV 3 FINAL 10/16/23



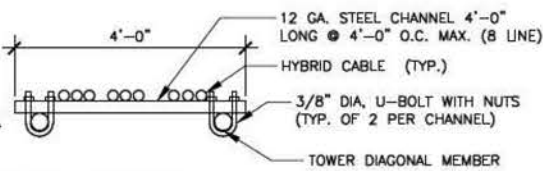


**ANTENNA MOUNT 1**  
SCALE: N.T.S.  
(BY VZW GC)

**ANTENNA AND HYBRID CABLES**

CONTRACTOR MAY SUBSTITUTE AN ALTERNATE METHOD TO SUPPORT THE HYBRID CABLES, BUT SHALL SUBMIT DETAILING OF THE ALTERNATE METHOD TO STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO PROCEEDING WITH THE INSTALLATION OF THE CABLES.

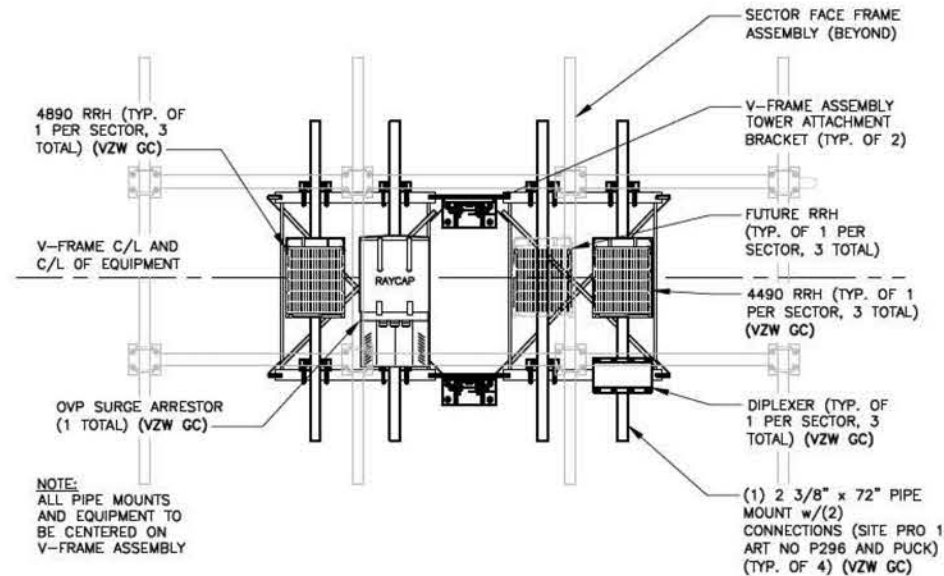
THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE STRUCTURAL ANALYSIS FOR REQUIRED HYBRID CABLE SUPPORT CONFIGURATIONS NOT INDICATED ON THE DETAIL, I.E. BUNDLED CABLES.



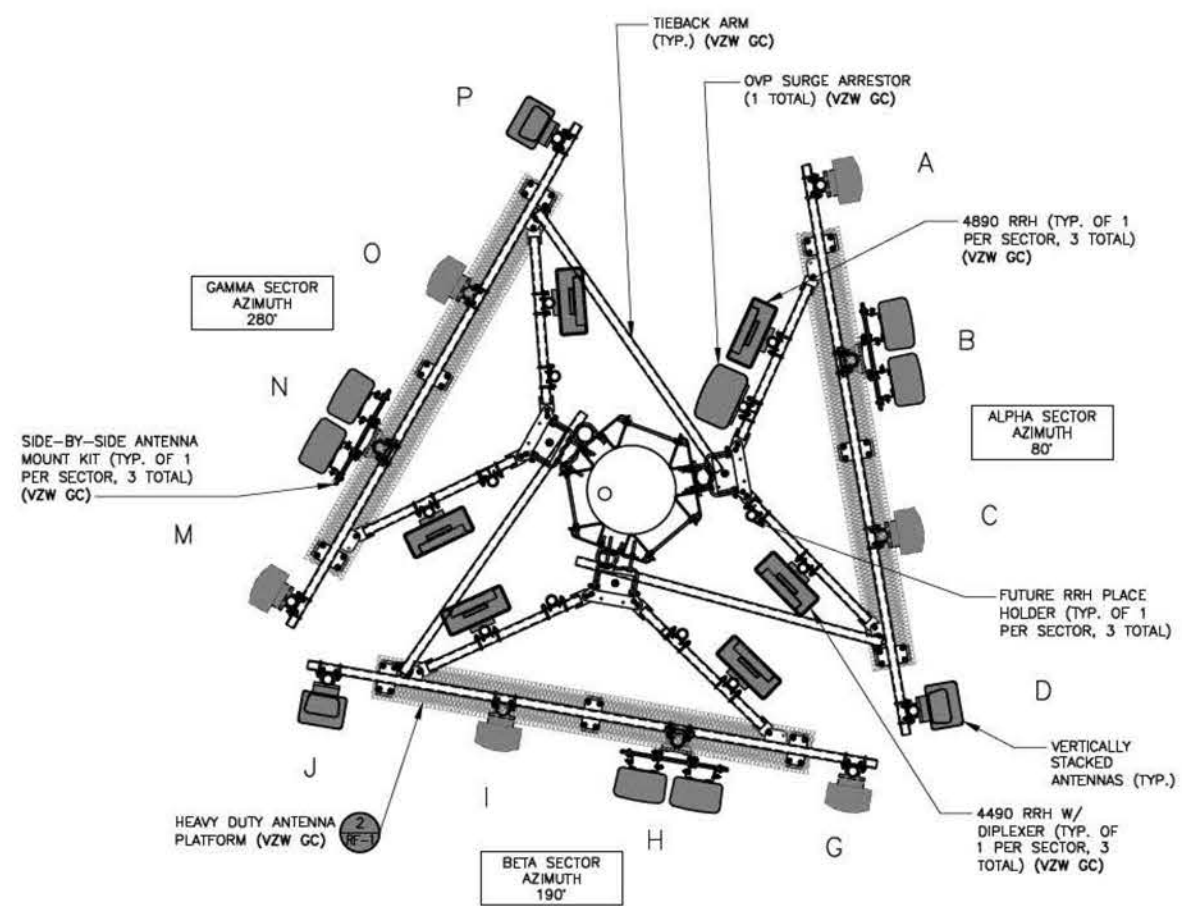
**HYBRID CABLE SUPPORT DETAIL**

**GENERAL NOTES:**

1. VERIFY EACH HYBRID CABLE LENGTH, DIAMETER, ROUTING, AND ALL MOUNTING APPURTENANCES WITH OWNER PRIOR TO ORDER.
2. THE MAXIMUM HYBRID CABLE LENGTH HAS BEEN ESTIMATED AT \_\_\_\_\_ FEET, APPROXIMATELY. ACTUAL ANTENNA CABLE LENGTH MAY VARY FROM ESTIMATED MAXIMUM LENGTH AND MUST BE VERIFIED.
3. TAG ALL MAIN CABLES AT TWO (2) LOCATIONS. 1) AT ANTENNAS 2) OUTSIDE EQUIPMENT CABINET NEAR THE WAVEGUIDE ENTRY PORT.
4. EACH CABLE SHALL BE GROUNDED AT (3) THREE LOCATIONS. ANTENNA LEVEL ON TOWER, TOWER BASE, AND EQUIPMENT H-FRAME.
5. HYBRID CABLES TO BE SUPPORTED EVERY 36" OFF MOUNTING FRAMES WITH STAINLESS STEEL HANGERS.
6. JUMPER CABLES TO BE SUPPORTED EVERY 18" WITH STAINLESS STEEL HANGERS.

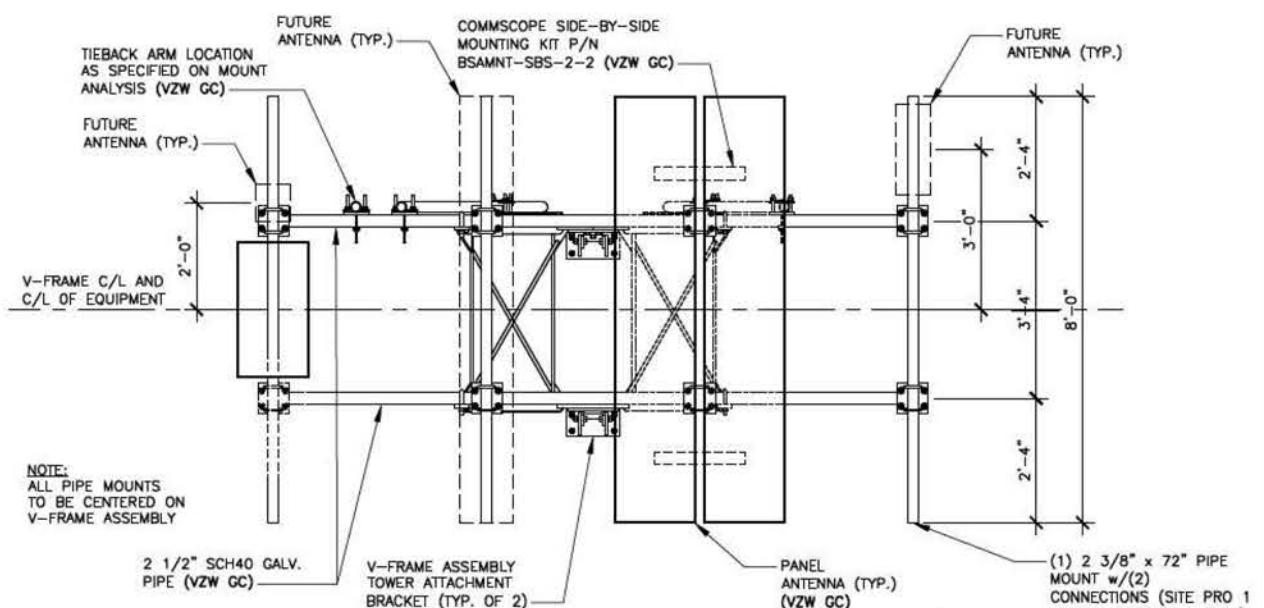


**ANTENNA MOUNT - REAR VIEW (FLATTENED) 3**  
SCALE: N.T.S.  
(BY VZW GC)



**ANTENNA LAYOUT - PLAN VIEW 2**  
SCALE: N.T.S.  
(BY VZW GC)

**NOTE:**  
FINAL ANTENNA LEVEL PLAN AND PASSING MOUNT ANALYSIS MUST MATCH. NOTIFY VZW CONSTRUCTION MANAGER IF DISCREPANCY EXISTS.



**ANTENNA MOUNT - FRONT VIEW 4**  
SCALE: N.T.S.  
(BY VZW GC)

**Bowman**  
CONSULTING ENGINEERS,  
LANDSCAPE ARCHITECTS, PLANNERS AND  
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STATE OF KENTUCKY  
JEFFREY LASHBROOK  
35042  
LICENSED PROFESSIONAL ENGINEER  
CIVIL

EV SHARPE  
US HIGHWAY 68  
BENTON, KY 42025  
ANTENNA PLAN AND  
DETAILS (REFERENCE ONLY)

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-
PROJECT MANAGER	JTL
DESIGNER	CWS

JOB NUMBER  
240739-01-001

RF-1  
MK: P&C & CANOPY REV 3 FINAL 10/16/23

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**EXHIBIT C**  
**TOWER AND FOUNDATION DESIGN**

April 9, 2024

Jeremy Campbell  
Department Manager Midwest  
Tower Engineering Professionals  
1089 3<sup>rd</sup> Avenue SW, Ste. 300A  
Carmel, IN 46032  
[TEPIndianapolis@tepgroup.net](mailto:TEPIndianapolis@tepgroup.net)



RE: KY-1604 EV SHARPE

To Whom It May Concern,

My name is Jeremy Campbell and our firm, Tower Engineering Professionals (TEP), has been tasked with the “Construction Management” for the project listed above. TEP was founded in 1997 with 2 climbing engineers and now we have more than 700 professionals. We provide construction and engineering services for more than 150,000 structures around the world.

TEP has worked with APC Towers for the past several years on multiple projects and we are excited to be on this project and working hand in hand with them 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,

Jeremy Campbell  
Department Manger Midwest  
Tower Engineering Professionals  
[jpcampbell@tepgroup.net](mailto:jpcampbell@tepgroup.net)  
828-507-4714 (cell)

## **EV SHARPE – List of Qualified Professionals**

Jeffrey Lashbrook  
Licensed Professional Engineer  
License #35042  
Bowman Consulting Engineers, Landscape Architects, Planners and Surveyors  
3001 Taylor Springs Drive  
Louisville, KY 40220

Frank V. Neeley  
Licensed Professional Land Surveyor  
PLS-3093  
Sharondale Surveying Inc.  
161 Martin Road  
Bon Aqua, TN 37025

Jeffrey Campbell  
Department Manager Midwest  
Tower Engineering Professionals  
1089 3<sup>rd</sup> Avenue SW, Ste. 300A  
Carmel, IN 46032

Brad R. Milanowski  
Kentucky Licensed Professional Engineer  
License #25311  
B+T Grp  
1717 S Boulder Ave #300  
Tulsa, OK 74119

Robert E. Beacom  
Kentucky Licensed Professional Engineer  
Licensed #28165  
Sabre Industries  
7101 Southbridge Drive  
P.O. Box 658  
Sioux City, IA 51102-0658

Hewitt T. Wilkinson  
Kentucky Licensed Professional Engineer  
License #18357  
Wilkinson Management Group, PLLC  
2203 Lowell Avenue  
Louisville, KY 40205



**Structural Design Report**

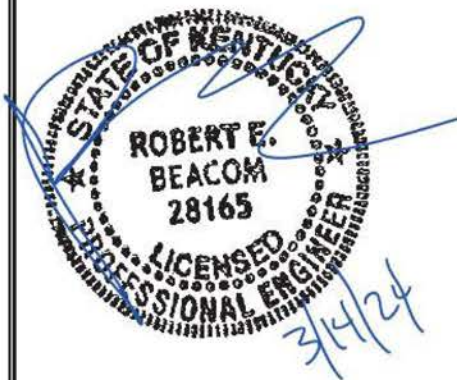
195' Monopole  
Site: EV Sharpe, KY  
Site Number: KY-1604

Prepared for: APC TOWERS III, LLC  
by: Sabre Industries™

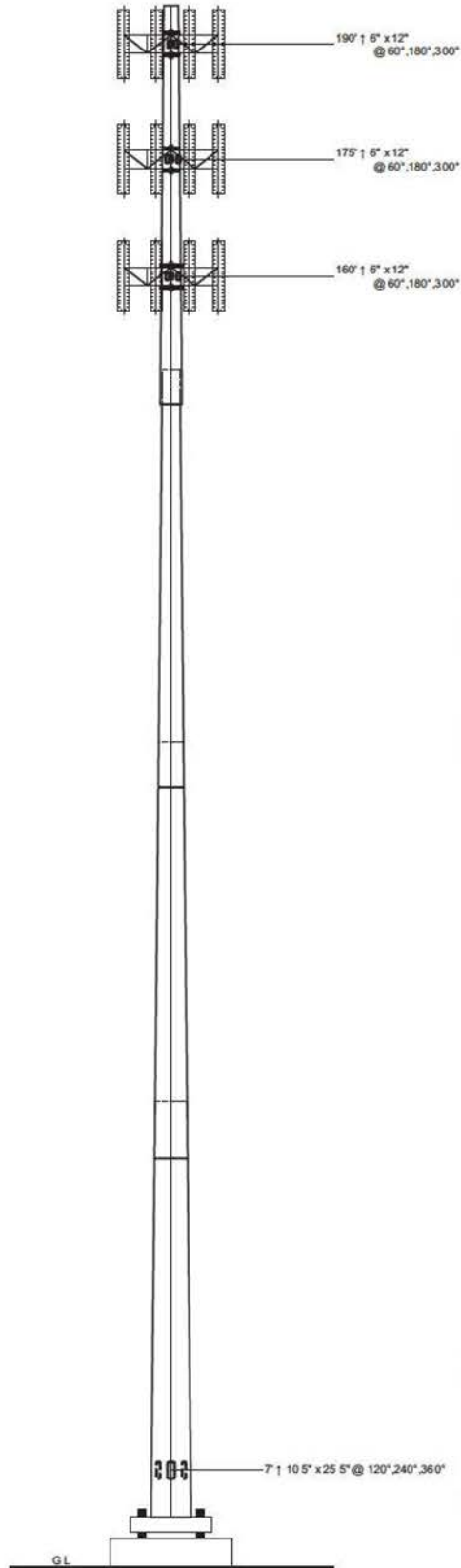
Job Number: 539453

March 14, 2024

Monopole Profile.....	1
Pole Calculations.....	2-15



Length (ft)	53'-3"	53'-6"	53'-6"	51'-3"
Number Of Sides	18			
Thickness (in)	7/16"	3/8"	5/16"	1/4"
Lap Splice (ft)		7'-3"	5'-9"	A
Top Diameter (in)	49.22"	39.75"	29.83"	20"
Bottom Diameter (in)	60.98"	51.57"	41.65"	31.32"
Taper (in/ft)			0.2209	
Grade			A672-65	
Weight (lbs)	16394	10416	6798	3994
Overall Steel Height (ft)				194



### Designed Appurtenance Loading

Elev	Description	Tx-Line
190	3 EHD V-Boom - 12ft Face - 3ft Standoff	
190	(12) 108" x 15" x 11" Panel	
190	(3) 22" x 18" x 12" Box	(6) 1 5/8"
190	(24) 24" x 12" x 8" RRH	
175	3V-Boom - 12ft Face - 3ft Standoff	
175	(12) 108" x 15" x 11" Panel	
175	(3) 22" x 18" x 12" Box	(6) 1 5/8"
175	(24) 24" x 12" x 8" RRH	
160	3V-Boom - 12ft Face - 3ft Standoff	
160	(12) 108" x 15" x 11" Panel	
160	(3) 22" x 18" x 12" Box	(6) 1 5/8"
160	(24) 24" x 12" x 8" RRH	

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

Wind Speed (No Ice)	106 mph
Wind Speed (Ice)	30 mph
Design Ice Thickness	1.50 in
Risk Category	II
Exposure Category	C
Topographic Factor Procedure	Method 1 (Simplified)
Topographic Category	1
Ground Elevation	433 ft
Seismic Importance Factor, Ie	1.00
0.2-sec Spectral Response, Ss	0.885 g
1-sec Spectral Response, S1	0.297 g
Site Class	D (DEFAULT)
Seismic Design Category	D
Basic Seismic Force-Resisting System	Telecommunication Tower (Pole: Steel)

### Limit State Load Combination Reactions

Load Combination	Axial (kips)	Shear (kips)	Moment (ft-k)	Deflection (ft)	Sway (deg)
1.2 D + 1.0 Wo	59.67	37.93	5713.64	18.28	10.75
0.9 D + 1.0 Wo	44.75	37.83	5590.72	17.79	10.44
1.2 D + 1.0 Di + 1.0 Wi	92.42	5.24	820.56	2.74	1.59
1.2 D + 1.0 Ev + 1.0 Eh	66.71	4.94	859.09	2.94	1.72
0.9 D - 1.0 Ev + 1.0 Eh	37.71	4.9	818.7	2.76	1.61
1.0 D + 1.0 Wo (Service @ 60 mph)	49.8	10.89	1634.95	5.36	3.11

### Base Plate Dimensions

Shape	Diameter	Thickness	Bolt Circle	Bolt Qty	Bolt Diameter
Round	73.75"	2.25"	68"	18	2.25"

### Anchor Bolt Dimensions


Length	Diameter	Hole Diameter	Weight	Type	Finish
84"	2.25"	2.625"	2179.8	A615-75	Galv

### Material List

Display	Value
A	4' - 6"

### Notes

- 1) Antenna Feed Lines Run Inside Pole
- 2) All dimensions are above ground level, unless otherwise specified.
- 3) Weights shown are estimates. Final weights may vary.
- 4) Full Height Step Bolts
- 5) This tower design and, if applicable, the foundation design(s) shown on the following page(s) also meet or exceed the requirements of the 2018 Kentucky Building Code.
- 6) Tower Rating: 99.8%

 <p><b>Sabre Industries</b> INNOVATION DELIVERED</p>	<p><b>Sabre Industries</b> 7101 Southbridge Drive P.O. Box 658 Sioux City, IA 51102-0658 Phone (712) 258-6990 Fax (712) 279-0814</p>	<p>Job: <b>539453</b></p>
	<p>Information contained herein is the sole property of Sabre Communications Corporation, constitutes a trade secret as defined by Iowa Code Ch. 550 and shall not be reproduced, copied or used in whole or part for any purpose whatsoever without the prior written consent of Sabre Communications Corporation.</p>	<p>Customer: <b>APC TOWERS III, LLC</b></p> <p>Site Name: <b>EV Sharpe, KY KY-1604</b></p> <p>Description: <b>195' Monopole</b></p> <p>Date: <b>3/14/2024</b> By: <b>REB</b></p>

Tel: (416) 736-7453 Fax: (416) 736-4372 Web: www.guymast.com

Processed under license at:

Sabre Towers and Poles on: 14 mar 2024 at: 10:25:30  
 =====

195' Monopole / EV Sharpe, KY

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

POLE GEOMETRY  
 =====

ELEV	SECTION	No.	OUTSIDE	THICK	RESISTANCES		SPLICE	..OVERLAP..		w/t
ft	NAME	SIDE	DIAM	-NESS	*Pn	*Mn	TYPE	LENGTH	RATIO	
			in	in	kip	ft-kip		ft		
194.0	A	18	20.31	0.250	1164.3	470.8				12.9
147.2	A/B	18	30.79	0.250	1668.5	1031.5	SLIP	4.50	1.75	
142.7	B	18	31.30	0.312	2238.8	1402.0				16.3
99.5	B/C	18	40.99	0.312	2712.2	2234.5	SLIP	5.75	1.68	
93.7	C	18	41.66	0.375	3476.0	2902.9				18.4
53.2	C/D	18	50.73	0.375	3976.9	4056.9	SLIP	7.25	1.71	
46.0	D	18	51.61	0.438	4931.9	5108.0				19.6
0.0			61.92	0.438	5561.2	6929.6				

POLE ASSEMBLY  
 =====

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

POLE SECTIONS  
 =====

SECTION	No. of	LENGTH	OUTSIDE DIAMETER		BEND	MAT-	FLANGE ID		FLANGE WELD	
NAME	SIDES		BOT	TOP	RAD	ERIAL	BOT	TOP	..GROUP ID..	
		ft	*	*	in	ID			BOT	TOP
			in	in						
A	18	51.25	31.80	20.31	0.625	1	0	0	0	0
B	18	53.50	42.29	30.29	0.625	2	0	0	0	0
C	18	53.50	52.36	40.36	0.625	3	0	0	0	0
D	18	53.25	61.92	49.98	0.625	4	0	0	0	0



\* - Diameter of circumscribed circle

MATERIAL TYPES

=====

TYPE OF SHAPE	TYPE NO	NO OF ELEM.	ORIENT	HEIGHT	WIDTH	.THICKNESS.		IRREGULARITY	
			& deg	in	in	WEB	FLANGE	.PROJECTION. % OF AREA	ORIENT deg
PL	1	1	0.0	31.80	0.25	0.250	0.250	0.00	0.0
PL	2	1	0.0	42.29	0.31	0.312	0.312	0.00	0.0
PL	3	1	0.0	52.36	0.38	0.375	0.375	0.00	0.0
PL	4	1	0.0	61.92	0.44	0.438	0.438	0.00	0.0

& - With respect to vertical

MATERIAL PROPERTIES

=====

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

\* Only 5 condition(s) shown in full

\* RRUs/TMAs were assumed to be behind antennas

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

=====

LOADING CONDITION A =====

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

LOADS ON POLE

=====

LOAD TYPE	ELEV ft	APPLY. RADIUS	LOAD. ft	..AT AZI	LOAD AZI	.....FORCES.....		.....MOMENTS.....	
						HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	192.000	0.00	0.0	0.0	0.0	0.0125	0.0067	0.0000	0.0000
C	189.000	0.00	0.0	0.0	0.0	0.0000	1.4152	0.0000	0.0000
C	189.000	0.00	0.0	0.0	0.0	7.8132	5.1156	0.0000	0.0000
C	185.000	0.00	0.0	0.0	0.0	0.0311	0.0168	0.0000	0.0000
C	175.000	0.00	0.0	0.0	0.0	0.0308	0.0168	0.0000	0.0000
C	174.000	0.00	0.0	0.0	0.0	0.0000	1.3029	0.0000	0.0000
C	174.000	0.00	0.0	0.0	0.0	7.5914	5.1276	0.0000	0.0000
C	165.000	0.00	0.0	0.0	0.0	0.0304	0.0168	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.0	0.0000	1.1906	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.0	7.4495	5.1276	0.0000	0.0000
C	155.000	0.00	0.0	0.0	0.0	0.0300	0.0168	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0	0.0296	0.0168	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0	0.0291	0.0168	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0	0.0287	0.0168	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0	0.0282	0.0168	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0	0.0276	0.0168	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0	0.0270	0.0168	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0	0.0264	0.0168	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0	0.0257	0.0168	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0	0.0250	0.0168	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0	0.0241	0.0168	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0	0.0231	0.0168	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0	0.0219	0.0168	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0	0.0204	0.0168	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0	0.0184	0.0168	0.0000	0.0000
D	194.000	0.00	180.0	0.0	0.0	0.0495	0.0697	0.0000	0.0000

D	178.417	0.00	180.0	0.0	0.0495	0.0697	0.0000	0.0000
D	178.417	0.00	180.0	0.0	0.0563	0.0807	0.0000	0.0000
D	162.833	0.00	180.0	0.0	0.0563	0.0807	0.0000	0.0000
D	162.833	0.00	180.0	0.0	0.0627	0.0918	0.0000	0.0000
D	147.250	0.00	180.0	0.0	0.0627	0.0918	0.0000	0.0000
D	147.250	0.00	180.0	0.0	0.0666	0.2207	0.0000	0.0000
D	142.750	0.00	180.0	0.0	0.0666	0.2207	0.0000	0.0000
D	142.750	0.00	180.0	0.0	0.0691	0.1301	0.0000	0.0000
D	128.333	0.00	180.0	0.0	0.0691	0.1301	0.0000	0.0000
D	128.333	0.00	180.0	0.0	0.0741	0.1429	0.0000	0.0000
D	113.917	0.00	180.0	0.0	0.0741	0.1429	0.0000	0.0000
D	113.917	0.00	180.0	0.0	0.0787	0.1557	0.0000	0.0000
D	99.500	0.00	180.0	0.0	0.0787	0.1557	0.0000	0.0000
D	99.500	0.00	180.0	0.0	0.0815	0.3593	0.0000	0.0000
D	93.750	0.00	180.0	0.0	0.0815	0.3593	0.0000	0.0000
D	93.750	0.00	180.0	0.0	0.0826	0.2049	0.0000	0.0000
D	80.250	0.00	180.0	0.0	0.0826	0.2049	0.0000	0.0000
D	80.250	0.00	180.0	0.0	0.0854	0.2193	0.0000	0.0000
D	66.750	0.00	180.0	0.0	0.0854	0.2193	0.0000	0.0000
D	66.750	0.00	180.0	0.0	0.0872	0.2337	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0872	0.2337	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0878	0.5261	0.0000	0.0000
D	46.000	0.00	180.0	0.0	0.0878	0.5261	0.0000	0.0000
D	46.000	0.00	180.0	0.0	0.0868	0.2930	0.0000	0.0000
D	11.500	0.00	180.0	0.0	0.0802	0.3216	0.0000	0.0000
D	11.500	0.00	180.0	0.0	0.0801	0.3359	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0801	0.3359	0.0000	0.0000

LOADING CONDITION M

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

LOADS ON POLE

LOAD TYPE	ELEV ft	APPLY. RADIUS ft	LOAD. AZI	AT AZI	FORCES		MOMENTS	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	192.000	0.00	0.0	0.0	0.0125	0.0050	0.0000	0.0000
C	189.000	0.00	0.0	0.0	0.0000	1.0614	0.0000	0.0000
C	189.000	0.00	0.0	0.0	7.8132	3.8367	0.0000	0.0000
C	185.000	0.00	0.0	0.0	0.0311	0.0126	0.0000	0.0000
C	175.000	0.00	0.0	0.0	0.0308	0.0126	0.0000	0.0000
C	174.000	0.00	0.0	0.0	0.0000	0.9772	0.0000	0.0000
C	174.000	0.00	0.0	0.0	7.5914	3.8457	0.0000	0.0000
C	165.000	0.00	0.0	0.0	0.0304	0.0126	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.0000	0.8929	0.0000	0.0000
C	159.000	0.00	0.0	0.0	7.4495	3.8457	0.0000	0.0000
C	155.000	0.00	0.0	0.0	0.0300	0.0126	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0296	0.0126	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0291	0.0126	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0287	0.0126	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0282	0.0126	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0276	0.0126	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0270	0.0126	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0264	0.0126	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0257	0.0126	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0250	0.0126	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0241	0.0126	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0231	0.0126	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0219	0.0126	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0204	0.0126	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0184	0.0126	0.0000	0.0000
D	194.000	0.00	180.0	0.0	0.0495	0.0523	0.0000	0.0000
D	147.250	0.00	180.0	0.0	0.0628	0.0688	0.0000	0.0000
D	147.250	0.00	180.0	0.0	0.0666	0.1655	0.0000	0.0000
D	142.750	0.00	180.0	0.0	0.0666	0.1655	0.0000	0.0000
D	142.750	0.00	180.0	0.0	0.0692	0.0976	0.0000	0.0000
D	99.500	0.00	180.0	0.0	0.0787	0.1168	0.0000	0.0000
D	99.500	0.00	180.0	0.0	0.0815	0.2695	0.0000	0.0000
D	93.750	0.00	180.0	0.0	0.0815	0.2695	0.0000	0.0000
D	93.750	0.00	180.0	0.0	0.0826	0.1537	0.0000	0.0000
D	80.250	0.00	180.0	0.0	0.0826	0.1537	0.0000	0.0000
D	80.250	0.00	180.0	0.0	0.0854	0.1645	0.0000	0.0000
D	66.750	0.00	180.0	0.0	0.0854	0.1645	0.0000	0.0000

D	66.750	0.00	180.0	0.0	0.0872	0.1753	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0872	0.1753	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0878	0.3946	0.0000	0.0000
D	46.000	0.00	180.0	0.0	0.0878	0.3946	0.0000	0.0000
D	46.000	0.00	180.0	0.0	0.0868	0.2198	0.0000	0.0000
D	11.500	0.00	180.0	0.0	0.0802	0.2412	0.0000	0.0000
D	11.500	0.00	180.0	0.0	0.0801	0.2519	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0801	0.2519	0.0000	0.0000

LOADING CONDITION Y

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

LOADS ON POLE

LOAD TYPE	ELEV ft	APPLY. RADIUS ft	LOAD. AZI	AT AZI	FORCES		MOMENTS	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	192.000	0.00	0.0	0.0	0.0081	0.0187	0.0000	0.0000
C	189.000	0.00	0.0	0.0	0.0000	1.4152	0.0000	0.0000
C	189.000	0.00	0.0	0.0	0.9062	11.3814	0.0000	0.0000
C	185.000	0.00	0.0	0.0	0.0200	0.0288	0.0000	0.0000
C	175.000	0.00	0.0	0.0	0.0197	0.0288	0.0000	0.0000
C	174.000	0.00	0.0	0.0	0.0000	1.3029	0.0000	0.0000
C	174.000	0.00	0.0	0.0	0.9268	10.1149	0.0000	0.0000
C	165.000	0.00	0.0	0.0	0.0193	0.0288	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.0000	1.1906	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.9066	10.0704	0.0000	0.0000
C	155.000	0.00	0.0	0.0	0.0190	0.0288	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0186	0.0288	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0182	0.0288	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0178	0.0288	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0174	0.0288	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0169	0.0288	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0164	0.0288	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0159	0.0288	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0153	0.0288	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0147	0.0288	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0140	0.0288	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0132	0.0288	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0122	0.0288	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0110	0.0288	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0095	0.0288	0.0000	0.0000
D	194.000	0.00	180.0	0.0	0.0080	0.1217	0.0000	0.0000
D	178.417	0.00	180.0	0.0	0.0080	0.1217	0.0000	0.0000
D	178.417	0.00	180.0	0.0	0.0090	0.1398	0.0000	0.0000
D	162.833	0.00	180.0	0.0	0.0090	0.1398	0.0000	0.0000
D	162.833	0.00	180.0	0.0	0.0098	0.1577	0.0000	0.0000
D	147.250	0.00	180.0	0.0	0.0098	0.1577	0.0000	0.0000
D	147.250	0.00	180.0	0.0	0.0104	0.2909	0.0000	0.0000
D	142.750	0.00	180.0	0.0	0.0104	0.2909	0.0000	0.0000
D	142.750	0.00	180.0	0.0	0.0107	0.2033	0.0000	0.0000
D	128.333	0.00	180.0	0.0	0.0107	0.2033	0.0000	0.0000
D	128.333	0.00	180.0	0.0	0.0113	0.2220	0.0000	0.0000
D	113.917	0.00	180.0	0.0	0.0113	0.2220	0.0000	0.0000
D	113.917	0.00	180.0	0.0	0.0119	0.2404	0.0000	0.0000
D	99.500	0.00	180.0	0.0	0.0119	0.2404	0.0000	0.0000
D	99.500	0.00	180.0	0.0	0.0123	0.4478	0.0000	0.0000
D	93.750	0.00	180.0	0.0	0.0123	0.4478	0.0000	0.0000
D	93.750	0.00	180.0	0.0	0.0124	0.2955	0.0000	0.0000
D	80.250	0.00	180.0	0.0	0.0124	0.2955	0.0000	0.0000
D	80.250	0.00	180.0	0.0	0.0128	0.3144	0.0000	0.0000
D	66.750	0.00	180.0	0.0	0.0128	0.3144	0.0000	0.0000
D	66.750	0.00	180.0	0.0	0.0130	0.3327	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0130	0.3327	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0130	0.6277	0.0000	0.0000
D	46.000	0.00	180.0	0.0	0.0130	0.6277	0.0000	0.0000
D	46.000	0.00	180.0	0.0	0.0127	0.3967	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0116	0.4346	0.0000	0.0000

LOADING CONDITION AK

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

LOADS ON POLE  
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LOAD TYPE	ELEV ft	APPLY RADIUS ft	LOAD AT AZI	LOAD AZI	FORCES		MOMENTS	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	192.000	0.00	0.0	0.0	0.0014	0.0075	0.0000	0.0000
C	189.000	0.00	0.0	0.0	1.0037	5.7192	0.0000	0.0000
C	189.000	0.00	0.0	0.0	0.2777	1.5823	0.0000	0.0000
C	185.000	0.00	0.0	0.0	0.0032	0.0188	0.0000	0.0000
C	175.000	0.00	0.0	0.0	0.0028	0.0188	0.0000	0.0000
C	174.000	0.00	0.0	0.0	0.8527	5.7327	0.0000	0.0000
C	174.000	0.00	0.0	0.0	0.2167	1.4567	0.0000	0.0000
C	168.380	0.00	0.0	0.0	0.6555	4.7059	0.0000	0.0000
C	165.000	0.00	0.0	0.0	0.0025	0.0188	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.7121	5.7327	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.1653	1.3311	0.0000	0.0000
C	155.000	0.00	0.0	0.0	0.0022	0.0188	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0019	0.0188	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0017	0.0188	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0014	0.0188	0.0000	0.0000
C	120.500	0.00	0.0	0.0	0.6108	8.5620	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0012	0.0188	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0010	0.0188	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0008	0.0188	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0007	0.0188	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0005	0.0188	0.0000	0.0000
C	72.750	0.00	0.0	0.0	0.3415	13.1336	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0004	0.0188	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0003	0.0188	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0002	0.0188	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0001	0.0188	0.0000	0.0000
C	26.620	0.00	0.0	0.0	0.0641	18.4075	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0001	0.0188	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0000	0.0188	0.0000	0.0000
D	194.000	0.00	180.0	180.0	0.0000	0.0000	0.0000	0.0000
D	0.000	0.00	180.0	180.0	0.0000	0.0000	0.0000	0.0000

LOADING CONDITION AL

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

LOADS ON POLE  
=====

LOAD TYPE	ELEV ft	APPLY RADIUS ft	LOAD AT AZI	LOAD AZI	FORCES		MOMENTS	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	192.000	0.00	0.0	0.0	0.0014	0.0042	0.0000	0.0000
C	189.000	0.00	0.0	0.0	1.0037	3.2331	0.0000	0.0000
C	189.000	0.00	0.0	0.0	0.2777	0.8945	0.0000	0.0000
C	185.000	0.00	0.0	0.0	0.0032	0.0106	0.0000	0.0000
C	175.000	0.00	0.0	0.0	0.0028	0.0106	0.0000	0.0000
C	174.000	0.00	0.0	0.0	0.8527	3.2406	0.0000	0.0000
C	174.000	0.00	0.0	0.0	0.2167	0.8235	0.0000	0.0000
C	168.380	0.00	0.0	0.0	0.6555	2.6602	0.0000	0.0000
C	165.000	0.00	0.0	0.0	0.0025	0.0106	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.7121	3.2406	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.1653	0.7525	0.0000	0.0000
C	155.000	0.00	0.0	0.0	0.0022	0.0106	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0019	0.0106	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0017	0.0106	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0014	0.0106	0.0000	0.0000
C	120.500	0.00	0.0	0.0	0.6108	4.8400	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0012	0.0106	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0010	0.0106	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0008	0.0106	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0007	0.0106	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0005	0.0106	0.0000	0.0000
C	72.750	0.00	0.0	0.0	0.3415	7.4244	0.0000	0.0000



C	65.000	0.00	0.0	0.0	0.0004	0.0106	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0003	0.0106	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0002	0.0106	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0001	0.0106	0.0000	0.0000
C	26.620	0.00	0.0	0.0	0.0641	10.4057	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0001	0.0106	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0000	0.0106	0.0000	0.0000
D	194.000	0.00	180.0	180.0	0.0000	0.0000	0.0000	0.0000
D	0.000	0.00	180.0	180.0	0.0000	0.0000	0.0000	0.0000

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Sabre Towers and Poles on: 14 mar 2024 at: 10:25:30

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195' Monopole / EV Sharpe, KY

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

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MAST ELEV ft	DEFLECTIONS (ft)			ROTATIONS (deg)		
	HORIZONTAL ALONG	ACROSS	DOWN	TILT ALONG	ACROSS	TWIST
194.0	18.28I	0.06T	2.46I	10.75I	0.03T	0.00U
178.4	15.46I	0.06T	1.94I	10.62I	0.03T	0.00U
162.8	12.73I	0.05T	1.44I	10.04I	0.03T	0.00U
147.2	10.20I	0.04T	1.02I	9.02I	0.03T	0.00I
142.7	9.52I	0.04T	0.92I	8.73I	0.03T	0.00I
128.3	7.50I	0.03T	0.63I	7.66I	0.03T	0.00I
113.9	5.74I	0.03T	0.41I	6.53I	0.03T	0.00I
99.5	4.26I	0.02T	0.26I	5.40I	0.02T	0.00I
93.7	3.74I	0.02T	0.21I	5.03I	0.02T	0.00I
80.2	2.66I	0.01T	0.12I	4.14I	0.02T	0.00I
66.7	1.79I	0.01T	0.07I	3.29I	0.01T	0.00I
53.2	1.12I	0.01T	0.03I	2.48I	0.01T	0.00I
46.0	0.82I	0.00T	0.02I	2.12I	0.01T	0.00I
34.5	0.46I	0.00T	0.01I	1.55I	0.01T	0.00I
23.0	0.20I	0.00T	0.00I	1.01I	0.00T	0.00I
11.5	0.05I	0.00T	0.00I	0.49I	0.00T	0.00I
0.0	0.00A	0.00A	0.00A	0.00A	0.00A	0.00A

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

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MAST ELEV ft	TOTAL	SHEAR.w.r.t.WIND.DIR		MOMENT.w.r.t.WIND.DIR		TORSION
	AXIAL kip	ALONG kip	ACROSS kip	ALONG ft-kip	ACROSS ft-kip	ft-kip
194.0	0.01 I	0.00 I	0.00 R	-0.01 I	0.00 B	0.00 B

178.4	14.74 AI	8.65 N	0.00 R	-99.97 B	-0.03 I	0.04 U
	14.74 AG	8.65 X	0.00 N	-99.99 B	-0.03 I	0.04 U
162.8	28.39 AG	17.17 X	0.00 N	-354.07 B	0.10 Q	0.15 U
	28.39 AA	17.18 X	0.01 N	-354.07 B	0.10 Q	0.16 U
147.2	42.14 AA	25.59 X	0.01 N	-759.04 B	0.27 Q	0.34 U
	42.14 Y	25.69 E	-0.09 F	-759.21 H	0.37 Q	0.34 U
142.7	43.48 Y	26.02 E	-0.09 F	-888.38 B	-0.41 N	0.41 U
	43.48 AI	26.02 L	0.13 F	-888.39 B	-0.35 B	0.43 U
128.3	46.44 AI	27.04 X	0.13 F	-1313.22 L	2.01 Q	0.54 U
	46.44 AI	27.06 I	0.17 T	-1313.24 L	2.03 Q	0.54 U
113.9	49.70 AI	28.18 I	0.17 T	-1751.93 I	-4.22 T	0.71 U
	49.70 AI	28.17 I	0.17 T	-1751.93 I	-4.21 T	0.71 U
99.5	53.19 AI	29.33 I	0.17 T	-2205.06 I	-6.70 T	0.87 U
	53.19 AI	29.30 I	-0.21 Q	-2205.21 I	-6.70 T	-0.86 I
93.7	55.79 AI	29.79 I	-0.21 Q	-2389.79 I	-7.52 T	-0.92 I
	55.79 AI	29.85 I	-0.20 Q	-2389.89 I	-7.70 T	-0.91 I
80.2	59.81 AI	30.99 I	-0.20 Q	-2833.84 I	10.12 Q	-1.07 I
	59.81 AI	31.01 I	0.23 T	-2833.83 I	10.12 Q	-1.08 I
66.7	64.08 AI	32.18 I	0.23 T	-3290.38 I	-13.20 T	-1.19 I
	64.08 AI	32.19 I	0.23 T	-3290.39 I	-13.18 T	-1.19 I
53.2	68.63 AI	33.41 I	0.23 T	-3758.82 I	-16.23 T	-1.29 I
	68.63 AI	33.41 I	0.21 T	-3758.81 I	-16.22 T	-1.29 I
46.0	73.18 AI	34.05 I	0.21 T	-4015.54 I	-17.76 T	-1.33 I
	73.18 AI	34.06 I	0.21 T	-4015.53 I	-17.78 T	-1.33 I
34.5	77.86 AI	35.09 I	0.21 T	-4429.90 I	-20.17 T	-1.39 I
	77.86 AI	35.10 I	0.22 T	-4429.91 I	-20.16 T	-1.39 I
23.0	82.61 AI	36.08 I	0.22 T	-4851.77 I	-22.70 T	-1.43 I
	82.61 AI	36.06 I	0.22 T	-4851.77 I	-22.70 T	-1.43 I
11.5	87.47 AI	37.01 I	0.22 T	-5279.90 I	-25.19 T	-1.46 I
	87.47 AI	37.01 I	-0.22 Q	-5279.90 I	-25.18 T	-1.46 I
	92.42 AI	37.93 I	-0.22 Q	-5713.64 I	-27.64 T	-1.46 I
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base	92.42 AI	-37.93 I	0.22 Q	5713.64 I	27.64 T	1.46 I
reaction						
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COMPLIANCE WITH 4.8.2 & 4.5.4

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ELEV	AXIAL	BENDING	SHEAR + TORSIONAL	TOTAL	SATISFIED	D/t (w/t)	MAX ALLOWED
ft							
194.00	0.00I	0.00I	0.00I	0.00I	YES	12.87A	45.2
	0.01AI	0.15B	0.01N	0.16B	YES	15.30A	45.2
178.42	0.01AG	0.15B	0.01X	0.16B	YES	15.30A	45.2

162.83	0.02AG	0.42B	0.02X	0.43B	YES	17.73A	45.2
	0.02AA	0.42B	0.02X	0.43B	YES	17.73A	45.2
147.25	0.03AA	0.74B	0.03X	0.75B	YES	20.16A	45.2
	0.02Y	0.56H	0.02E	0.57H	YES	16.05A	45.2
142.75	0.02Y	0.62B	0.02E	0.63B	YES	16.62A	45.2
	0.02AI	0.63B	0.02L	0.65B	YES	16.33A	45.2
128.33	0.02AI	0.79L	0.02X	0.80L	YES	18.13A	45.2
	0.02AI	0.79L	0.02I	0.80L	YES	18.13A	45.2
113.92	0.02AI	0.90I	0.02I	0.91I	YES	19.93A	45.2
	0.02AI	0.90I	0.02I	0.91I	YES	19.93A	45.2
99.50	0.02AI	0.99I	0.02I	1.00I	YES	21.72A	45.2
	0.02AI	0.78I	0.02I	0.79I	YES	18.04A	45.2
93.75	0.02AI	0.80I	0.02I	0.81I	YES	18.64A	45.2
	0.02AI	0.82I	0.02I	0.83I	YES	18.35A	45.2
80.25	0.02AI	0.87I	0.02I	0.87I	YES	19.75A	45.2
	0.02AI	0.87I	0.02I	0.87I	YES	19.75A	45.2
66.75	0.02AI	0.90I	0.02I	0.91I	YES	21.15A	45.2
	0.02AI	0.90I	0.02I	0.91I	YES	21.15A	45.2
53.25	0.02AI	0.93I	0.02I	0.94I	YES	22.55A	45.2
	0.01AI	0.76I	0.01I	0.77I	YES	19.28A	45.2
46.00	0.01AI	0.77I	0.01I	0.78I	YES	19.93A	45.2
	0.01AI	0.79I	0.01I	0.80I	YES	19.63A	45.2
34.50	0.02AI	0.80I	0.01I	0.81I	YES	20.65A	45.2
	0.02AI	0.80I	0.01I	0.81I	YES	20.65A	45.2
23.00	0.02AI	0.81I	0.01I	0.82I	YES	21.67A	45.2
	0.02AI	0.81I	0.01I	0.82I	YES	21.67A	45.2
11.50	0.02AI	0.82I	0.01I	0.83I	YES	22.70A	45.2
	0.02AI	0.82I	0.01I	0.83I	YES	22.70A	45.2
0.00	0.02AI	0.82I	0.01I	0.84I	YES	23.72A	45.2

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

DOWN kip	SHEAR.w.r.t.WIND.DIR		MOMENT.w.r.t.WIND.DIR		TORSION ft-kip
	ALONG kip	ACROSS kip	ALONG ft-kip	ACROSS ft-kip	
92.42 AI	37.93 I	-0.22 Q	-5713.64 I	-27.64 T	-1.46 I

Processed under license at:

Sabre Towers and Poles

on: 14 mar 2024 at: 10:25:40

195' Monopole / EV Sharpe, KY

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\*\*\*\*\* Service Load Condition \*\*\*\*\*  
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\* Only 1 condition(s) shown in full  
\* RRUs/TMAs were assumed to be behind antennas

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

LOADING CONDITION A =====

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

LOADS ON POLE

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LOAD TYPE	ELEV ft	APPLY. RADIUS	LOAD. ft	AT AZI	LOAD AZI	.....FORCES.....		.....MOMENTS.....	
						HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	192.000	0.00	0.0	0.0	0.0	0.0036	0.0056	0.0000	0.0000
C	189.000	0.00	0.0	0.0	0.0	0.0000	1.1794	0.0000	0.0000
C	189.000	0.00	0.0	0.0	0.0	2.2398	4.2630	0.0000	0.0000
C	185.000	0.00	0.0	0.0	0.0	0.0089	0.0140	0.0000	0.0000
C	175.000	0.00	0.0	0.0	0.0	0.0088	0.0140	0.0000	0.0000
C	174.000	0.00	0.0	0.0	0.0	0.0000	1.0858	0.0000	0.0000
C	174.000	0.00	0.0	0.0	0.0	2.1762	4.2730	0.0000	0.0000
C	165.000	0.00	0.0	0.0	0.0	0.0087	0.0140	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.0	0.0000	0.9922	0.0000	0.0000
C	159.000	0.00	0.0	0.0	0.0	2.1356	4.2730	0.0000	0.0000
C	155.000	0.00	0.0	0.0	0.0	0.0086	0.0140	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0	0.0085	0.0140	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0	0.0083	0.0140	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0	0.0082	0.0140	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0	0.0081	0.0140	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0	0.0079	0.0140	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0	0.0078	0.0140	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0	0.0076	0.0140	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0	0.0074	0.0140	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0	0.0072	0.0140	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0	0.0069	0.0140	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0	0.0066	0.0140	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0	0.0063	0.0140	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0	0.0059	0.0140	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0	0.0053	0.0140	0.0000	0.0000
D	194.000	0.00	180.0	0.0	0.0	0.0142	0.0581	0.0000	0.0000
D	147.250	0.00	180.0	0.0	0.0	0.0180	0.0765	0.0000	0.0000
D	147.250	0.00	180.0	0.0	0.0	0.0191	0.1839	0.0000	0.0000
D	142.750	0.00	180.0	0.0	0.0	0.0191	0.1839	0.0000	0.0000
D	142.750	0.00	180.0	0.0	0.0	0.0198	0.1085	0.0000	0.0000
D	128.333	0.00	180.0	0.0	0.0	0.0198	0.1085	0.0000	0.0000
D	128.333	0.00	180.0	0.0	0.0	0.0212	0.1191	0.0000	0.0000
D	113.917	0.00	180.0	0.0	0.0	0.0212	0.1191	0.0000	0.0000
D	113.917	0.00	180.0	0.0	0.0	0.0225	0.1298	0.0000	0.0000
D	99.500	0.00	180.0	0.0	0.0	0.0225	0.1298	0.0000	0.0000
D	99.500	0.00	180.0	0.0	0.0	0.0234	0.2995	0.0000	0.0000
D	93.750	0.00	180.0	0.0	0.0	0.0234	0.2995	0.0000	0.0000
D	93.750	0.00	180.0	0.0	0.0	0.0237	0.1708	0.0000	0.0000
D	80.250	0.00	180.0	0.0	0.0	0.0237	0.1708	0.0000	0.0000
D	80.250	0.00	180.0	0.0	0.0	0.0245	0.1828	0.0000	0.0000
D	66.750	0.00	180.0	0.0	0.0	0.0245	0.1828	0.0000	0.0000
D	66.750	0.00	180.0	0.0	0.0	0.0250	0.1947	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0	0.0250	0.1947	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0	0.0252	0.4384	0.0000	0.0000
D	46.000	0.00	180.0	0.0	0.0	0.0252	0.4384	0.0000	0.0000
D	46.000	0.00	180.0	0.0	0.0	0.0249	0.2442	0.0000	0.0000
D	11.500	0.00	180.0	0.0	0.0	0.0230	0.2680	0.0000	0.0000
D	11.500	0.00	180.0	0.0	0.0	0.0230	0.2799	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0	0.0230	0.2799	0.0000	0.0000



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

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MAST ELEV ft	DEFLECTIONS (ft)			ROTATIONS (deg)		
	HORIZONTAL ALONG	ACROSS	DOWN	TILT ALONG	ACROSS	TWIST
194.0	5.36H	-0.01B	0.21D	3.11H	-0.01B	0.00B
178.4	4.52H	-0.01B	0.17D	3.07H	-0.01B	0.00B
162.8	3.71H	-0.01B	0.12D	2.90H	-0.01B	0.00B
147.2	2.96H	-0.01B	0.09D	2.60H	-0.01B	0.00B
142.7	2.76H	-0.01B	0.08D	2.51H	-0.01B	0.00B
128.3	2.17H	-0.01B	0.05D	2.20H	-0.01B	0.00B
113.9	1.65H	0.00B	0.04D	1.88H	0.00B	0.00B
99.5	1.22H	0.00B	0.02D	1.55H	0.00B	0.00B
93.7	1.07H	0.00B	0.02D	1.44H	0.00B	0.00B
80.2	0.76H	0.00B	0.01D	1.19H	0.00B	0.00B
66.7	0.51H	0.00B	0.01D	0.94H	0.00B	0.00B
53.2	0.32H	0.00B	0.00D	0.71H	0.00B	0.00B
46.0	0.24H	0.00B	0.00D	0.61H	0.00B	0.00B
34.5	0.13H	0.00B	0.00D	0.44H	0.00B	0.00B
23.0	0.06H	0.00B	0.00D	0.29H	0.00B	0.00B
11.5	0.01H	0.00B	0.00D	0.14H	0.00B	0.00B
0.0	0.00A	0.00A	0.00A	0.00A	0.00A	0.00A

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

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MAST ELEV ft	TOTAL AXIAL kip	SHEAR w.r.t. WIND DIR		MOMENT w.r.t. WIND DIR		TORSION ft-kip
		ALONG kip	ACROSS kip	ALONG ft-kip	ACROSS ft-kip	
194.0	0.00 D	0.00 I	0.00 B	0.00 D	0.00 B	0.00 B
178.4	6.41 D	2.48 I	0.00 B	-29.02 F	0.00 F	0.00 F
162.8	6.42 E	2.48 D	0.00 I	-29.02 K	0.00 I	0.00 F
147.2	12.85 E	4.93 D	0.00 I	-102.66 D	-0.01 K	0.01 F
142.7	12.85 E	4.93 A	0.00 C	-102.66 D	0.01 F	0.01 F
128.3	19.27 E	7.34 A	0.00 C	-219.46 D	-0.04 C	0.01 F
113.9	19.27 H	7.38 F	-0.03 B	-219.46 D	0.08 L	0.01 F
99.5	20.11 H	7.48 F	-0.03 B	-256.70 D	0.10 B	0.01 F
80.2	20.12 E	7.47 H	-0.03 E	-256.68 D	0.13 B	0.01 F
66.7	21.70 E	7.76 H	-0.03 E	-378.56 H	0.48 B	0.02 H
53.2	21.69 D	7.76 H	-0.03 B	-378.56 H	0.48 B	0.02 H
46.0	23.44 D	8.09 H	-0.03 B	-504.16 H	0.91 B	-0.03 B
34.5	23.44 D	8.09 H	-0.03 B	-504.16 H	0.91 B	-0.03 B

99.5	25.32 D	8.42 H	-0.03 B	-633.44 H	1.32 B	-0.05 B
	25.32 D	8.43 H	0.03 C	-633.42 H	1.35 B	-0.05 B
93.7	27.06 D	8.57 H	0.03 C	-686.24 H	1.51 B	-0.05 B
	27.06 B	8.57 D	-0.04 F	-686.21 H	1.53 B	-0.05 B
80.2	29.38 B	8.90 D	-0.04 F	-812.68 H	2.09 B	-0.06 B
	29.38 B	8.90 D	-0.04 B	-812.68 H	2.09 B	-0.06 B
66.7	31.86 B	9.24 D	-0.04 B	-942.74 H	2.59 B	-0.07 B
	31.86 B	9.24 H	-0.04 B	-942.74 H	2.59 B	-0.07 B
53.2	34.52 B	9.59 H	-0.04 B	-1076.26 H	3.07 B	-0.08 B
	34.52 B	9.59 H	-0.03 F	-1076.26 H	3.07 B	-0.08 B
46.0	37.69 B	9.78 H	-0.03 F	-1149.45 H	3.29 B	-0.08 B
	37.69 B	9.78 H	-0.03 B	-1149.44 H	3.29 B	-0.08 B
34.5	40.58 B	10.07 H	-0.03 B	-1267.66 H	3.69 B	-0.09 B
	40.58 B	10.07 D	-0.04 F	-1267.67 H	3.69 B	-0.09 B
23.0	43.53 B	10.35 D	-0.04 F	-1388.12 H	4.08 B	-0.09 B
	43.53 B	10.35 D	-0.04 F	-1388.12 H	4.08 B	-0.09 B
11.5	46.58 B	10.62 D	-0.04 F	-1510.63 H	4.48 B	-0.09 B
	46.58 B	10.62 D	-0.04 B	-1510.63 H	4.48 B	-0.09 B
	49.80 B	10.89 D	-0.04 B	-1634.95 H	4.89 B	-0.09 B
base reaction	49.80 B	-10.89 D	0.04 B	1634.95 H	-4.89 B	0.09 B

COMPLIANCE WITH 4.8.2 & 4.5.4  
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ELEV ft	AXIAL	BENDING	SHEAR + TORSIONAL	TOTAL	SATISFIED	D/t (w/t)	MAX ALLOWED
194.00	0.00D	0.00D	0.00I	0.00D	YES	12.87A	45.2
178.42	0.00D	0.04F	0.00I	0.05F	YES	15.30A	45.2
	0.00E	0.04K	0.00D	0.05F	YES	15.30A	45.2
162.83	0.01E	0.12D	0.01D	0.13D	YES	17.73A	45.2
	0.01E	0.12D	0.01A	0.13D	YES	17.73A	45.2
147.25	0.01E	0.21D	0.01A	0.22D	YES	20.16A	45.2
	0.01H	0.16D	0.01F	0.17D	YES	16.05A	45.2
142.75	0.01H	0.18D	0.01F	0.19D	YES	16.62A	45.2
	0.01E	0.18D	0.01H	0.19D	YES	16.33A	45.2
128.33	0.01E	0.23H	0.01H	0.24H	YES	18.13A	45.2
	0.01D	0.23H	0.01H	0.24H	YES	18.13A	45.2
113.92	0.01D	0.26H	0.01H	0.27H	YES	19.93A	45.2
	0.01D	0.26H	0.01H	0.27H	YES	19.93A	45.2
99.50	0.01D	0.28H	0.01H	0.29H	YES	21.72A	45.2
	0.01D	0.22H	0.00H	0.23H	YES	18.04A	45.2

93.75	0.01D	0.23H	0.00H	0.24H	YES	18.64A	45.2
	0.01B	0.24H	0.00D	0.24H	YES	18.35A	45.2
80.25	0.01B	0.25H	0.00D	0.26H	YES	19.75A	45.2
	0.01B	0.25H	0.00H	0.26H	YES	19.75A	45.2
66.75	0.01B	0.26H	0.00H	0.27H	YES	21.15A	45.2
	0.01B	0.26H	0.00H	0.27H	YES	21.15A	45.2
53.25	0.01B	0.27H	0.00H	0.27H	YES	22.55A	45.2
	0.01B	0.22H	0.00H	0.22H	YES	19.28A	45.2
46.00	0.01B	0.22H	0.00H	0.23H	YES	19.93A	45.2
	0.01B	0.23H	0.00H	0.23H	YES	19.63A	45.2
34.50	0.01B	0.23H	0.00H	0.24H	YES	20.65A	45.2
	0.01B	0.23H	0.00H	0.24H	YES	20.65A	45.2
23.00	0.01B	0.23H	0.00H	0.24H	YES	21.67A	45.2
	0.01B	0.23H	0.00H	0.24H	YES	21.67A	45.2
11.50	0.01B	0.23H	0.00H	0.24H	YES	22.70A	45.2
	0.01B	0.23H	0.00H	0.24H	YES	22.70A	45.2
0.00	0.01B	0.24H	0.00H	0.24H	YES	23.72A	45.2

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

DOWN	SHEAR.w.r.t.WIND.DIR		MOMENT.w.r.t.WIND.DIR		TORSION
kip	ALONG	ACROSS	ALONG	ACROSS	ft-kip
	kip	kip	ft-kip	ft-kip	
49.80	10.89	-0.04	-1634.95	4.89	-0.09
B	D	B	H	B	B

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

Parameters	Risk Category	Description	h <sub>i</sub> (ft.)	w <sub>i</sub> (kips)	W <sub>r</sub> (kips)	w <sub>i</sub> /h <sub>i</sub> <sup>ke</sup>	Vertical Distribution of Seismic Forces			
							F <sub>sp</sub> or E <sub>h</sub> (kips)	E <sub>v</sub> (kips)	1.2D + 1.0E <sub>v</sub> (kips)	0.9D - 1.0E <sub>v</sub> (kips)
	II	Step Bolts/Safety Climb Load	192.00	0.0056	0.0000	206.4384	0.0014	0.0008	0.0075	0.0042
	1.500	Line Deadload	189.00	1.1794	0.0000	42,129.3474	0.2777	0.1670	1.5823	0.8945
	0.885	Mount/Antenna Load	189.00	4.2630	4.2630	152,278.6230	1.0037	0.6036	5.7192	3.2331
	0.297	Step Bolts/Safety Climb Load	185.00	0.0140	0.0000	479.1500	0.0032	0.0020	0.0188	0.0106
	D (default)	Step Bolts/Safety Climb Load	175.00	0.0140	0.0000	428.7500	0.0028	0.0020	0.0188	0.0106
	12.000	Line Deadload	174.00	1.0858	0.0000	32,873.6808	0.2167	0.1537	1.4567	0.8235
	1.200	Mount/Antenna Load	174.00	4.2730	4.2730	129,369.3480	0.8527	0.6051	5.7327	3.2406
	2.006	Structure - Section 1	168.38	3.5077	0.0000	99,449.6944	0.6555	0.4967	4.7059	2.6602
	1.062	Step Bolts/Safety Climb Load	165.00	0.0140	0.0000	381.1500	0.0025	0.0020	0.0188	0.0106
	0.596	Line Deadload	159.00	0.9922	0.0000	25,083.8082	0.1653	0.1405	1.3311	0.7525
	0.708	Mount/Antenna Load	159.00	4.2730	4.2730	108,025.7130	0.7121	0.6051	5.7327	3.2406
	0.397	Step Bolts/Safety Climb Load	155.00	0.0140	0.0000	336.3500	0.0022	0.0020	0.0188	0.0106
	1.000	Step Bolts/Safety Climb Load	145.00	0.0140	0.0000	294.3500	0.0019	0.0020	0.0188	0.0106
	1.500	Step Bolts/Safety Climb Load	135.00	0.0140	0.0000	255.1500	0.0017	0.0020	0.0188	0.0106
	0.099	Step Bolts/Safety Climb Load	125.00	0.0140	0.0000	218.7500	0.0014	0.0020	0.0188	0.0106
	29,000	Structure - Section 2	120.50	6.3819	0.0000	92,666.7835	0.6108	0.9037	8.5620	4.8400
	774	Step Bolts/Safety Climb Load	115.00	0.0140	0.0000	185.1500	0.0012	0.0020	0.0188	0.0106
	39,023	Step Bolts/Safety Climb Load	105.00	0.0140	0.0000	154.3500	0.0010	0.0020	0.0188	0.0106
	19,899	Step Bolts/Safety Climb Load	95.00	0.0140	0.0000	126.3500	0.0008	0.0020	0.0188	0.0106
	386.4	Step Bolts/Safety Climb Load	85.00	0.0140	0.0000	101.1500	0.0007	0.0020	0.0188	0.0106
	49,724	Step Bolts/Safety Climb Load	75.00	0.0140	0.0000	78.7500	0.0005	0.0020	0.0188	0.0106
	12,809	Structure - Section 3	72.75	9.7895	0.0000	51,811.5406	0.3415	1.3862	13.1336	7.4244
	36,915	Step Bolts/Safety Climb Load	65.00	0.0140	0.0000	59.1500	0.0004	0.0020	0.0188	0.0106
	2328	Step Bolts/Safety Climb Load	55.00	0.0140	0.0000	42.3500	0.0003	0.0020	0.0188	0.0106
	0.250	Step Bolts/Safety Climb Load	45.00	0.0140	0.0000	28.3500	0.0002	0.0020	0.0188	0.0106
	4.003	Step Bolts/Safety Climb Load	35.00	0.0140	0.0000	17.1500	0.0001	0.0020	0.0188	0.0106
	2.0000	Structure - Section 4	26.62	13.7206	0.0000	9,722.7519	0.0641	1.9428	18.4075	10.4057
	4.923	Step Bolts/Safety Climb Load	25.00	0.0140	0.0000	8.7500	0.0001	0.0020	0.0188	0.0106
	D	Step Bolts/Safety Climb Load	15.00	0.0140	0.0000	3.1500	0.0000	0.0020	0.0188	0.0106
		Σ		49.72	12.8090	746,816.03	4.92	7.04	66.71	37.71

Seismic Design Category D



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

### Pole Data

Diameter:	60.980	in (flat to flat)
Thickness:	0.4375	in
Yield (Fy):	65	ksi
# of Sides:	18	"0" IF Round
Strength (Fu):	80	ksi

### Reactions

Moment, Mu:	5713.64	ft-kips
Axial, Pu:	59.67	kips
Shear, Vu:	37.93	kips

### Anchor Rod Data

Quantity:	18	
Diameter:	2.25	in
Rod Material:	A615	
Strength (Fu):	100	ksi
Yield (Fy):	75	ksi
BC Diam. (in):	68	BC Override:

### Plate Data

Diameter (in):	73.75	Dia. Override:
Thickness:	2.25	in
Yield (Fy):	50	ksi
Eff Width/Rod:	10.75	in
Drain Hole:	2.625	in. diameter
Drain Location:	28.25	in. center of pole to center of drain hole
Center Hole:	48.5	in. diameter

### Anchor Rod Results

(per 4.9.9)

Maximum Put:	221.58 Kips
$\Phi^t \cdot R_{nt}$ :	243.75 Kips
Vu:	2.11 Kips
$\Phi^v \cdot R_{nv}$ :	149.10 Kips
Tension Interaction Ratio:	0.83
Maximum Puc:	227.38 Kips
$\Phi^c \cdot R_{nc}$ :	268.39 Kips
Vu:	2.11 Kips
$\Phi^c \cdot R_{ncv}$ :	120.77 Kips
Compression Interaction Ratio:	0.85
Maximum Interaction Ratio:	<b>84.8% Pass</b>

### Base Plate Results

Base Plate (Mu/Z):	37.3 ksi
Allowable $\Phi \cdot F_y$ :	45.0 ksi (per AISC)
Base Plate Interaction Ratio:	<b>83.0% Pass</b>



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0	03/19/24	ISSUED FOR CONSTRUCTION

COA: 4011

EXPIRES: 12/31/2024



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PROJECT INFORMATION:

PROJECT NO: 170143.001.01.0001  
SITE NAME: EV SHARPE  
SITE NO: KY-1604  
CLIENT NAME: APC TOWERS

DRAWN BY: THARUN CHERIYAN, E.I.T.  
CHECKED BY: BWS

SHEET TITLE:

DRILLED PIER FOUNDATION FOR  
195 FT. MONOPOLE TOWER

SHEET NUMBER:

MP-DPF

REVISION:

0

**NOTES:**

- REINFORCEMENT STEEL SHALL CONFORM TO THE REQUIREMENT OF ASTM A-615 (GRADE 60) EXCEPT THAT TIES MAY BE ASTM-615 (GRADE 40) WITH 3" MINIMUM CLEAR COVER.
- REINFORCEMENT STEEL SHALL BE DETAILED, FABRICATED, BENT, AND PLACED IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE AND THE ACI 315 (LATEST EDITION).
- 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: WILKINSON MANAGEMENT GROUP  
PROJECT NUMBER: 2024-593  
DATE: FEBRUARY 5, 2024
- 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.
- TOTAL CONCRETE VOLUME IN CUBIC YARDS: 45.61
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
- CONCRETE MIXTURES SHALL MEET DURABILITY REQUIREMENTS OF CHAPTER 19 OF THE ACI 318-14
- 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.
- 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.
- BACKFILL MATERIAL SHALL BE COMPACTED TO A MIN. UNIT WEIGHT OF 110 PCF OR AS 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.
- VERIFY ALL DIMENSIONS AGAINST MANUFACTURER'S DRAWINGS.

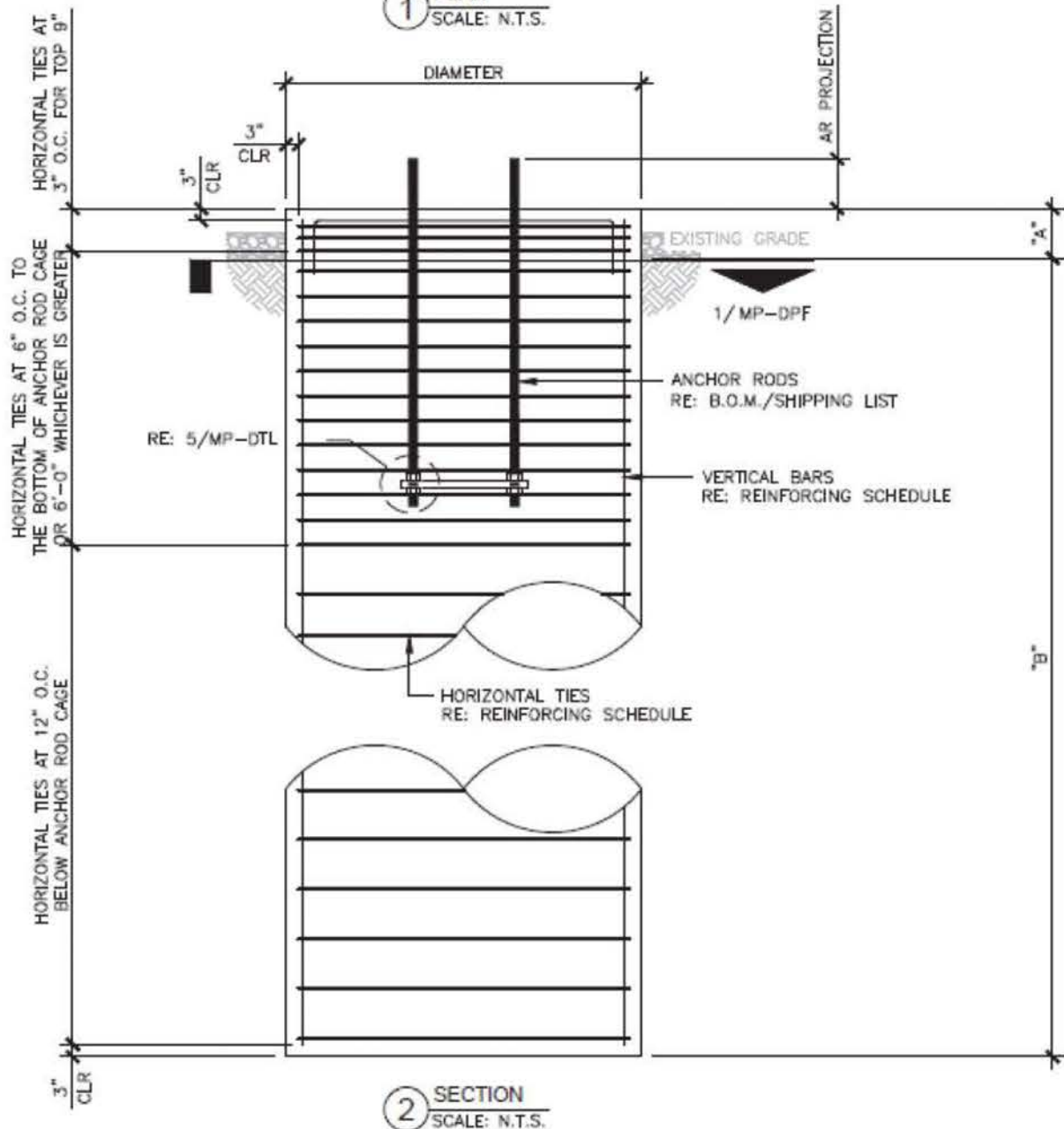
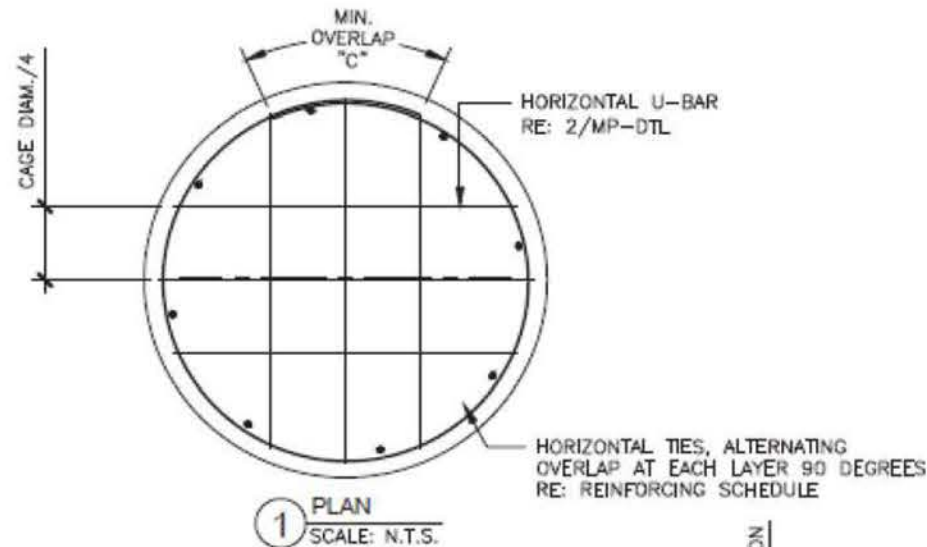
**STIPULATION FOR REUSE:**

- 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	
DIM "A"	0' 6"
DIM "B"	24' 0"
MIN. OVERLAP "C"	2' 3"
DIAMETER	8' 0"
AR PROJECTION	REF TO MFG

REINFORCING SCHEDULE		
	SIZE	TOTAL QTY
VERTICAL BARS	#9	33
HORIZONTAL TIES	#4	32
U-BAR HORIZONTAL	#4	6

BASE REACTIONS:		
(FACTORED LOADS)		
MOMENT	5714	KIPS-FT
AXIAL	60	KIPS
SHEAR	38	KIPS





DIMENSIONING SCHEDULE	
A	23' 0"
B	11' 6"
C	0' 6"
D	8' 6"
E	3' 0"
DIAMETER	7' 6"
MIN. OVERLAP "M"	2' 3"
AR PROJECTION	REF TO MFG

REINFORCING SCHEDULE	SIZE	TOTAL QTY
VERTICAL BARS WITH 90° BEND	# 9	36
HORIZONTAL TIES	# 4	19
HORIZONTAL U-BAR (PEDESTAL)	# 4	6
TOP HORIZONTAL BARS	# 9	56
BOTTOM HORIZONTAL BARS	# 9	56
CORNER BARS	# 4	8
VERTICAL U-BARS (PAD)	# 4	112

BASE REACTIONS		
(FACTORED LOADS)		
MOMENT	5714	KIP-FT
AXIAL	60	KIPS
SHEAR	38	KIPS

**NOTES:**

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 GEOTECHNICAL PROPERTIES BY: WILKINSON MANAGEMENT GROUP  
 PROJECT NUMBER: 2024-593  
 DATE: FEBRUARY 5, 2024
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**PROJECT INFORMATION:**

PROJECT NO: 170143.001.01.0001  
 SITE NAME: EV SHARPE  
 SITE NO: KY-1604  
 CLIENT NAME: APC TOWERS

DRAWN BY: THARUN CHERIYAN, E.I.T.  
 CHECKED BY: BWS

**SHEET TITLE:**

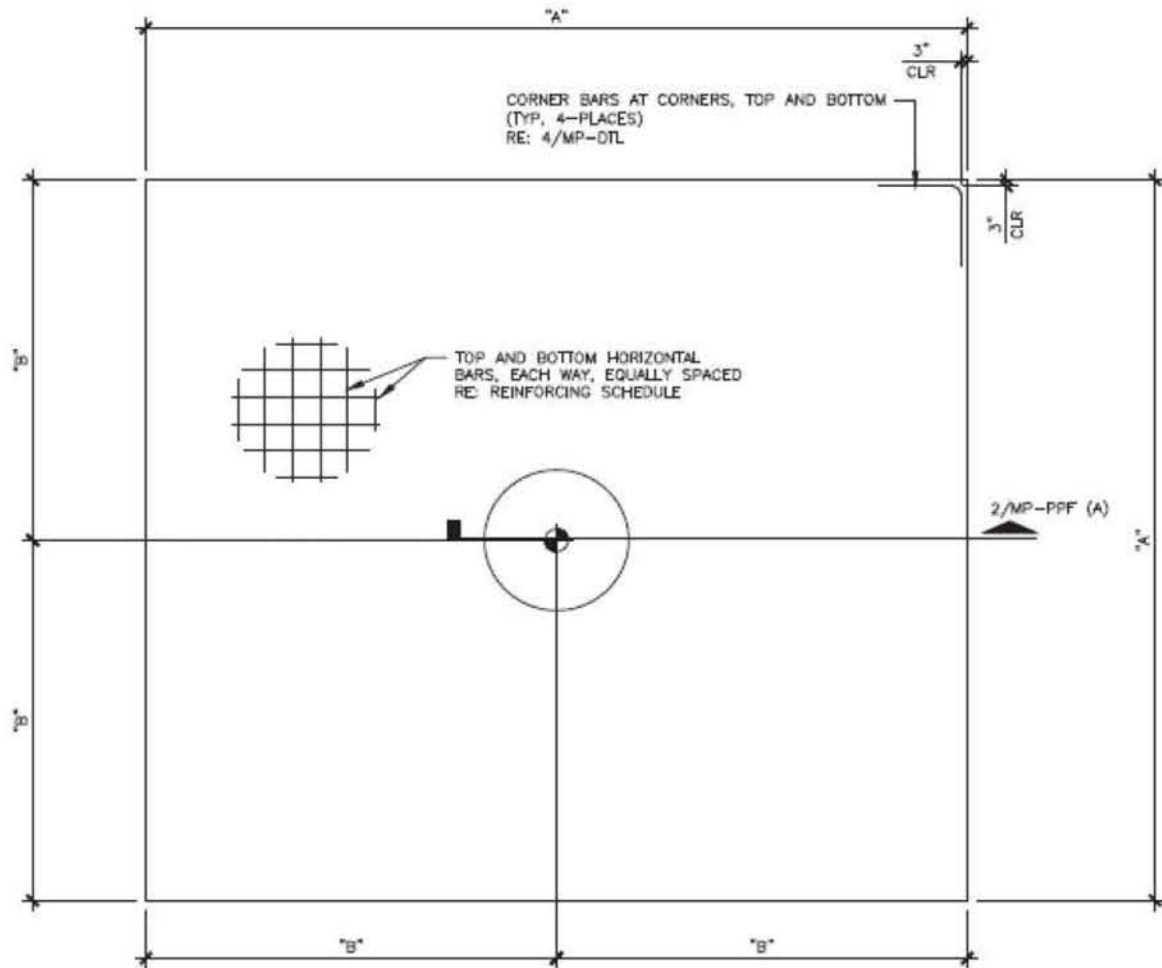
PAD & PIER FOUNDATION FOR  
 195 FT. MONOPOLE TOWER

SHEET NUMBER:

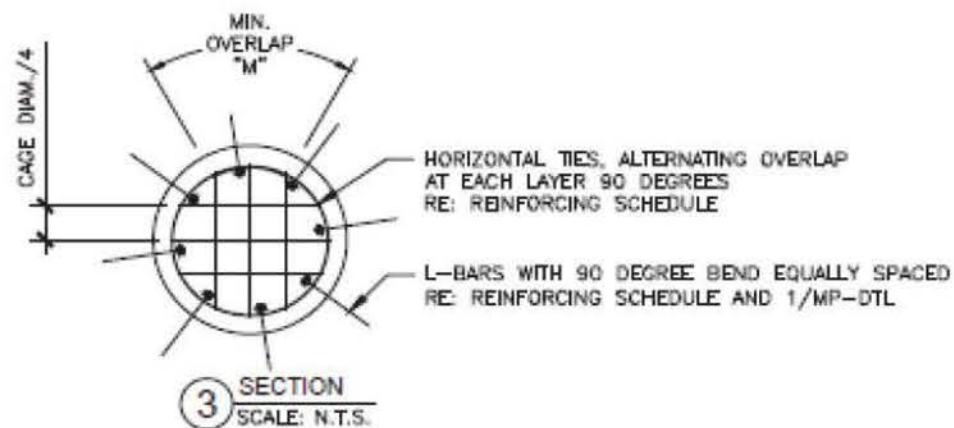
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REVISION:

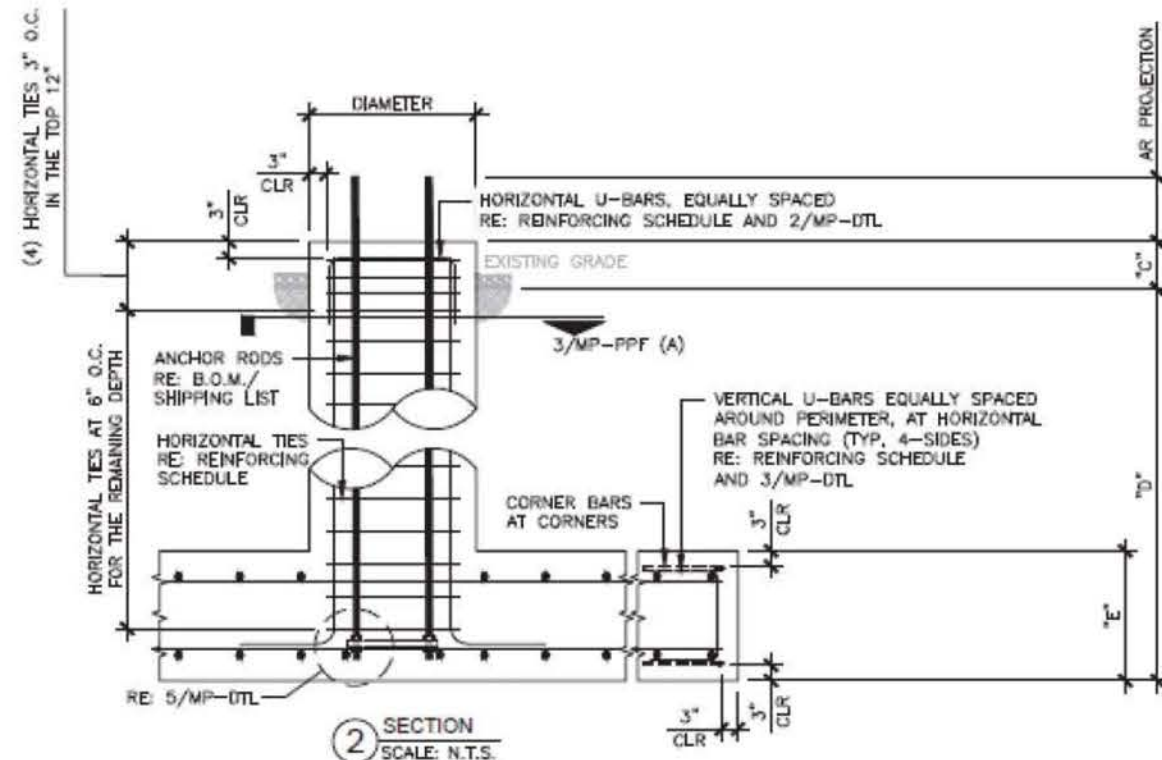
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1 PLAN  
SCALE: N.T.S.



3 SECTION  
SCALE: N.T.S.



2 SECTION  
SCALE: N.T.S.



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CHECKED BY: BWS

SHEET TITLE:

DIMENSIONING DETAIL

SHEET NUMBER:

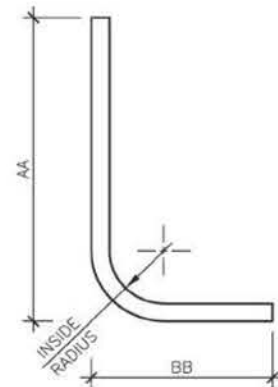
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REVISION:

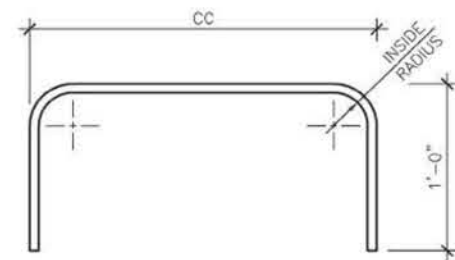
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DIMENSIONING SCHEDULE	
AA*	8' 3-3/4"
BB	1' 6"
CC*	VARIES
DD*	2' 6"
EE	3' 0"

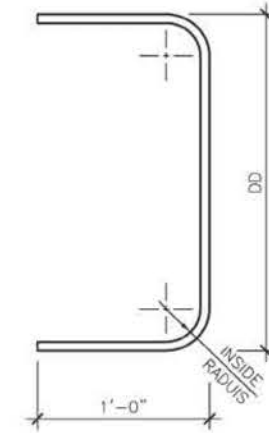
\*NOTE: CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO FABRICATION



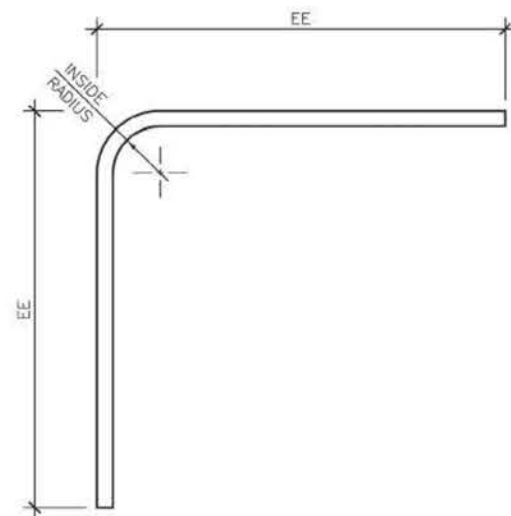
1 L-BAR  
SCALE: N.T.S.



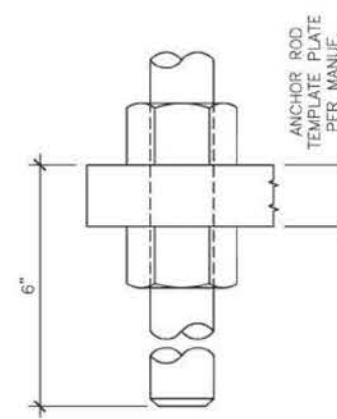
2 HORIZONTAL U-BAR  
SCALE: N.T.S.



3 VERTICAL U-BAR  
SCALE: N.T.S.



4 CORNER BAR  
SCALE: N.T.S.



5 ANCHOR ROD DETAIL  
SCALE: N.T.S.



## Drilled Pier Foundation

B+T Project # :	170143.001.01.0001
Site Name:	EV Sharpe
Site Number:	KY-1604
TIA-222 Revison:	H
Tower Type:	Monopole

Applied Loads		
	Comp.	Uplift
Moment (kip-ft)	5713.64	
Axial Force (kips)	59.67	
Shear Force (kips)	37.93	

Material Properties	
Concrete Strength, f <sub>c</sub> :	4 ksi
Rebar Strength, F <sub>y</sub> :	60 ksi
Tie Yield Strength, F <sub>yt</sub> :	40 ksi

Pier Design Data	
Depth	24 ft
Ext. Above Grade	0.5 ft
Pier Section 1	
<i>From 0.5' above grade to 24' below grade</i>	
Pier Diameter	8 ft
Rebar Quantity	33
Rebar Size	9
Clear Cover to Ties	3 in
Tie Size	4
Tie Spacing	12 in

Analysis Results		
Soil Lateral Check	Compression	Uplift
D <sub>ve0</sub> (ft from TOC)	5.61	-
Soil Safety Factor	3.30	-
Max Moment (kip-ft)	5967.82	-
Rating	40.3%	-

Soil Vertical Check	Compression	Uplift
Skin Friction (kips)	942.48	-
End Bearing (kips)	1357.17	-
Weight of Concrete (kips)	221.67	-
Total Capacity (kips)	2299.65	-
Axial (kips)	281.34	-
Rating	12.2%	-

Reinforced Concrete Flexure	Compression	Uplift
Critical Depth (ft from TOC)	5.27	-
Critical Moment (kip-ft)	5965.80	-
Critical Moment Capacity	6457.18	-
Rating	92.4%	-

Reinforced Concrete Shear	Compression	Uplift
Critical Depth (ft from TOC)	16.87	-
Critical Shear (kip)	670.61	-
Critical Shear Capacity	746.63	-
Rating	89.8%	-

Structural Foundation Rating	92.4%
Soil Interaction Rating	40.3%

Check Limitation	
Apply TIA-222-H Section 15.5:	<input type="checkbox"/>
N/A	<input type="checkbox"/>
Design Options	
Input Effective Depths (else Actual):	<input type="checkbox"/>
Consider non-tapered moment capacity:	<input type="checkbox"/>
Check Shear along Depth of Pier:	<input checked="" type="checkbox"/>
Utilize Shear-Friction Methodology:	<input type="checkbox"/>
Override Critical Depth:	<input type="checkbox"/>

Soil Profile			
Groundwater Depth	N/A	# of Layers	6

Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ <sub>soil</sub> (pcf)	γ <sub>concrete</sub> (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	1	1	100	150			0.000	0.000					Cohesionless
2	1	4	3	120	150			0.000	0.000					Cohesionless
3	4	8	4	120	150	1.75		0.963	0.963	1.00				Cohesive
4	8	12	4	125	150	3		1.650	1.650	2.00				Cohesive
5	12	22	10	130	150	4		2.045	2.045	3.00				Cohesive
6	22	24	2	135	150	6		2.700	2.700	4.00		36		Cohesive



# Pier and Pad Foundation

Project #: 170143.001.01.0001  
 Site Name: EV Sharpe  
 Site #: KY-1604

TIA-222 Revision: H  
 Tower Type: Monopole

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

Superstructure Analysis Reactions		
Compression, $P_{comp}$ :	59.67	kips
Base Shear, $V_{u\_comp}$ :	37.93	kips
Moment, $M_{ur}$ :	5713.64	ft-kips
Tower Height, $H$ :	195	ft
BP Dist. Above Fdn, $bp_{dist}$ :	3	in

Foundation Analysis Checks				
	Capacity	Demand	Rating	Check
<i>Lateral (Sliding) (kips)</i>	1012.93	37.93	3.7%	Pass
<i>Bearing Pressure (ksf)</i>	13.50	5.68	42.1%	Pass
<i>Overturning (kip*ft)</i>	6964.80	6064.49	87.1%	Pass
<i>Pier Flexure (Comp) (kip*ft)</i>	6370.99	5941.22	93.3%	Pass
<i>Pier Compression (kip)</i>	28118.83	107.38	0.4%	Pass
<i>Pad Flexure (kip*ft)</i>	3832.02	3313.28	86.5%	Pass
<i>Pad Shear - 1-way (kips)</i>	819.76	446.50	54.5%	Pass
<i>Pad Shear - 2-way (Comp) (ksi)</i>	0.190	0.000	0.0%	Pass
<i>Flexural 2-way (Comp) (kip*ft)</i>	5443.93	3564.73	65.5%	Pass

Pier Properties		
Pier Shape:	Circular	
Pier Diameter, $d_{pier}$ :	7.5	ft
Ext. Above Grade, $E$ :	0.5	ft
Pier Rebar Size, $S_c$ :	9	
Pier Rebar Quantity, $m_c$ :	36	
Pier Tie/Spiral Size, $S_t$ :	4	
Pier Tie/Spiral Quantity, $m_t$ :	14	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, $cc_{pier}$ :	3	in

Structural Rating: 93.3%  
 Soil Rating: 87.1%

Pad Properties		
Depth, $D$ :	8.5	ft
Pad Width, $W_p$ :	23	ft
Pad Thickness, $T$ :	3	ft
Pad Rebar Size (Bottom dir. 2), $Sp_2$ :	9	
Pad Rebar Quantity (Bottom dir. 2), $mp_2$ :	28	
Pad Clear Cover, $cc_{pad}$ :	3	in

Material Properties		
Rebar Grade, $F_y$ :	60	ksi
Concrete Compressive Strength, $F'_c$ :	4	ksi
Dry Concrete Density, $\delta_c$ :	150	pcf

Soil Properties		
Total Soil Unit Weight, $\gamma$ :	110	pcf
Ultimate Gross Bearing, $Q_{ult}$ :	18.000	ksf
Cohesion, $C_u$ :	1.750	ksf
Friction Angle, $\phi$ :		degrees
SPT Blow Count, $N_{blows}$ :		
Base Friction, $\mu$ :		
Neglected Depth, $N$ :	1.00	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, $gw$ :	N/A	ft

<-Toggle between Gross and Net

**EXHIBIT D**  
**COMPETING UTILITIES, CORPORATIONS, OR PERSONS LIST**

# KY Public Service Commission

## Master Utility Search

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

Utility ID	Utility Name	Address/City/Contact	Utility Type	Status
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Active <input type="text"/>

**Search**

	Utility ID	Utility Name	Utility Type	Class	City	State
<a href="#">View</a>	4111300	2600Hz, Inc. dba ZSWITCH	Cellular	D	Henderson	NV
<a href="#">View</a>	4113600	AFNET, LLC	Cellular	D	Alpharetta	GA
<a href="#">View</a>	4108300	Air Voice Wireless, LLC d/b/a AirTalk Wireless	Cellular	A	Houston	TX
<a href="#">View</a>	4113150	ALLDATA COMMUNICATIONS CORP.	Cellular	D	Brooklyn	NY
<a href="#">View</a>	4111900	ALLNETAIR, INC.	Cellular	D	West Palm Beach	FL
<a href="#">View</a>	44451184	Alltel Corporation d/b/a Verizon Wireless	Cellular	A	Lisle	IL
<a href="#">View</a>	4110850	AltaWorx, LLC	Cellular	D	Fairhope	AL
<a href="#">View</a>	4107800	American Broadband and Telecommunications Company	Cellular	D	Toledo	OH
<a href="#">View</a>	4108650	AmeriMex Communications Corp.	Cellular	A	Safety Harbor	FL
<a href="#">View</a>	4105100	AmeriVision Communications, Inc. d/b/a Affinity 4	Cellular	D	Virginia Beach	VA
<a href="#">View</a>	4114250	Approved Contact LLC	Cellular	C	Reno	NV
<a href="#">View</a>	4115050	Aquarius Silver LLC	Cellular	C	Sheridan	WY



<a href="#">View</a>	4105700	Assurance Wireless USA, L.P.	Cellular	D	Atlanta	GA
<a href="#">View</a>	4114150	Atlantic Mobile US LLC d/b/a Angel Mobile	Cellular	C	Wilmington	DE
<a href="#">View</a>	4113100	BARK TECHNOLOGIES, INC.	Cellular	D	Atlanta	GA
<a href="#">View</a>	4108600	BCN Telecom, Inc.	Cellular	D	Morristown	NJ
<a href="#">View</a>	4106000	Best Buy Health, Inc. d/b/a GreatCall d/b/a Jitterbug	Cellular	A	San Diego	CA
<a href="#">View</a>	4111050	BlueBird Communications, LLC	Cellular	D	New York	NY
<a href="#">View</a>	4107600	Boomerang Wireless, LLC	Cellular	A	Dallas	TX
<a href="#">View</a>	4100700	Cellco Partnership dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
<a href="#">View</a>	4106600	Cintex Wireless, LLC	Cellular	D	Houston	TX
<a href="#">View</a>	4112900	Clear Mobile, LLC	Cellular	D	Tulsa	OK
<a href="#">View</a>	4114550	Cliq Communications LLC d/b/a Cliq Mobile	Cellular	D	Coral Gables	FL
<a href="#">View</a>	4111150	Comcast OTR1, LLC	Cellular	A	Phoeniexville	PA
<a href="#">View</a>	4113550	Comlink Total Solutions Corp	Cellular	D	Fort Myers	FL
<a href="#">View</a>	4101900	Consumer Cellular, Incorporated	Cellular	A	Portland	OR
<a href="#">View</a>	4112700	Cox Wireless, LLC	Cellular	D	Atlanta	GA
<a href="#">View</a>	4108850	Cricket Wireless, LLC	Cellular	A	San Antonio	TX
<a href="#">View</a>	4111500	CSC Wireless, LLC d/b/a Altice Wireless	Cellular	B	Long Island City	NY
<a href="#">View</a>	4114000	Daywalker Mobile Inc.	Cellular	D	Bartlesville	OK
<a href="#">View</a>	4112000	DISH Wireless L.L.C.	Cellular	A	Englewood	CO
<a href="#">View</a>	4111200	Dynalink Communications, Inc.	Cellular	C	Brooklyn	NY
<a href="#">View</a>	4111800	Earthlink, LLC	Cellular	B	Atlanta	GA
<a href="#">View</a>	4101000	East Kentucky Network, LLC dba Appalachian Wireless	Cellular	A	Ivel	KY
<a href="#">View</a>	4002300	Easy Telephone Service Company dba Easy Wireless	Cellular	D	Ocala	FL
<a href="#">View</a>	4113250	Elevate Platforms, LLC	Cellular	D	Nashville	TN
<a href="#">View</a>	4109500	Enhanced Communications Group, LLC	Cellular	D	Bartlesville	OK
<a href="#">View</a>	4113800	EVOLVE WIRELESS LLC	Cellular	D	Maumee	OH
<a href="#">View</a>	4110450	Excellus Communications, LLC	Cellular	D	Harrisburg	SD



<a href="#">View</a>	4112400	Excess Telecom Inc.	Cellular	D	Beverly Hills	CA
<a href="#">View</a>	4104800	France Telecom Corporate Solutions L.L.C.	Cellular	D	Herndon	VA
<a href="#">View</a>	4111750	Gabb Wireless, Inc.	Cellular	B	Lehi	UT
<a href="#">View</a>	4109350	Global Connection Inc. of America	Cellular	D	Newport	KY
<a href="#">View</a>	4102200	Globalstar USA, LLC	Cellular	C	Covington	LA
<a href="#">View</a>	4112850	GO TECHNOLOGY MANAGEMENT, LLC	Cellular	D	Atlanta	GA
<a href="#">View</a>	4109600	Google North America Inc.	Cellular	A	Mountain View	CA
<a href="#">View</a>	4113500	GR8 CONNECT Corp.	Cellular	C	Brooklyn	NY
<a href="#">View</a>	33350363	Granite Telecommunications, LLC	Cellular	D	Quincy	MA
<a href="#">View</a>	4114300	Group F Consulting, LLC	Cellular	D		
<a href="#">View</a>	4114050	Helix Wireless Inc.	Cellular	C	Monmouth Junction	NJ
<a href="#">View</a>	4111350	HELLO MOBILE TELECOM LLC	Cellular	D	Dania Beach	FL
<a href="#">View</a>	4112950	Hoop Wireless, LLC	Cellular	D	Lakewood	NJ
<a href="#">View</a>	4103100	i-Wireless, LLC	Cellular	C	Newport	KY
<a href="#">View</a>	4112550	IDT Domestic Telecom, Inc.	Cellular	D	Newark	NJ
<a href="#">View</a>	4109800	IM Telecom, LLC d/b/a Infiniti Mobile	Cellular	D	Plano	TX
<a href="#">View</a>	4112650	Insight Mobile, Inc.	Cellular	D	Los Angeles	CA
<a href="#">View</a>	4111950	J Rhodes Enterprises LLC	Cellular	D	Gulf Breeze	FL
<a href="#">View</a>	22215360	KDDI America, Inc.	Cellular	D	Staten Island	NY
<a href="#">View</a>	10872	Kentucky RSA #1 Partnership	Cellular	A	Basking Ridge	NJ
<a href="#">View</a>	4112200	Lexvor Inc.	Cellular	D	Irvine	CA
<a href="#">View</a>	4111250	Liberty Mobile Wireless, LLC	Cellular	B	Sunny Isles Beach	FL
<a href="#">View</a>	4114900	Liberty Wireless, LLC	Cellular	C	Rockville	MD
<a href="#">View</a>	4114750	Link Mobile, Inc.	Cellular	C	New York	NY
<a href="#">View</a>	4111400	Locus Telecommunications, LLC	Cellular	D	Fort Lee	NJ
<a href="#">View</a>	4114500	Lux Mobile USA, Inc	Cellular	D	Baton Rouge	LA
<a href="#">View</a>	4107300	Lycamobile USA, Inc.	Cellular	D	Newark	NJ
<a href="#">View</a>	4112500	Marconi Wireless Holdings, LLC	Cellular	B	Westlake Village	CA
<a href="#">View</a>	4113850	MAXSIP TEL KENTUCKY LLC d/b/a Maxsip Telecom	Cellular	D	Woodmere	NY

<a href="#">View</a>	4114800	Mediacom Wireless LLC	Cellular	C	Mediacom Park	NY
<a href="#">View</a>	4108800	MetroPCS Michigan, LLC	Cellular	A	Bellevue	WA
<a href="#">View</a>	4111700	Mint Mobile, LLC	Cellular	B	Costa Mesa	CA
<a href="#">View</a>	4111850	Mobi, Inc.	Cellular	D	Honolulu	HI
<a href="#">View</a>	4114100	MVNO Connect LLC	Cellular	D	St. Petersburg	FL
<a href="#">View</a>	4113350	NatWireless, LLC	Cellular	D	Houston	TX
<a href="#">View</a>	4202400	New Cingular Wireless PCS, LLC dba AT&T Mobility, PCS	Cellular	A	San Antonio	TX
<a href="#">View</a>	4110700	Norcell, LLC	Cellular	D	Clayton	WA
<a href="#">View</a>	4113700	Nova Labs, Inc. dba Helium Mobile	Cellular	C	Boulder	CO
<a href="#">View</a>	4110750	Onvoy Spectrum, LLC	Cellular	D	Chicago	IL
<a href="#">View</a>	4114950	Panda Mobile LLC	Cellular	C	Sparks	NV
<a href="#">View</a>	4109050	Patriot Mobile LLC	Cellular	C	Grapevine	TX
<a href="#">View</a>	4110250	Plintron Technologies USA LLC	Cellular	D	Bellevue	WA
<a href="#">View</a>	33351182	PNG Telecommunications, Inc. dba PowerNet Global Communications	Cellular	D	Cincinnati	OH
<a href="#">View</a>	4114850	POWER MOBILE LLC	Cellular	C	Rockville Centre	NY
<a href="#">View</a>	4112800	Prepaid Wireless Group, LLC dba Prepaid Wireless Wholesale	Cellular	D	Rockville	MD
<a href="#">View</a>	4114350	PRESTO WIRELESS Corp.	Cellular	D	Fair Lawn	NJ
<a href="#">View</a>	4115000	Prosper Wireless LLC	Cellular	D	Sherman Oaks	CA
<a href="#">View</a>	4107700	Puretalk Holdings, Inc.	Cellular	A	Covington	GA
<a href="#">View</a>	4106700	Q Link Wireless, LLC	Cellular	A	Dania	FL
<a href="#">View</a>	4108700	Ready Wireless, LLC	Cellular	D	Cedar Rapids	IA
<a href="#">View</a>	4113200	Red Pocket Inc.	Cellular	D	Thousand Oaks	CA
<a href="#">View</a>	4114200	Rocstar Wireless LLC	Cellular	D	Bedford	TX
<a href="#">View</a>	4114700	Rocket Mobile LLC	Cellular	C	West Palm Beach	FL
<a href="#">View</a>	4106200	Rural Cellular Corporation	Cellular	A	Basking Ridge	NJ
<a href="#">View</a>	4108550	Sage Telecom Communications, LLC dba TruConnect	Cellular	A	Los Angeles	CA
<a href="#">View</a>	4113050	Sarver Corporation	Cellular	D	Ontario	CA



<a href="#">View</a>	4109150	SelecTel, Inc. d/b/a SelecTel Wireless	Cellular	B	Fremont	NE
<a href="#">View</a>	4110150	Spectrotel of the South LLC dba Touch Base Communications	Cellular	D	Neptune	NJ
<a href="#">View</a>	4111450	Spectrum Mobile, LLC	Cellular	A	St. Louis	MO
<a href="#">View</a>	4114400	Splash Cellular Inc.	Cellular	C	Bountiful	UT
<a href="#">View</a>	4200100	Sprint Spectrum, L.P.	Cellular	A	Atlanta	GA
<a href="#">View</a>	4200500	SprintCom, LLC	Cellular	A	Atlanta	GA
<a href="#">View</a>	4111600	STX Group LLC dba Twigby	Cellular	D	Murfreesboro	TN
<a href="#">View</a>	4113450	Syntegra North America, LLC	Cellular	D	Denton	TX
<a href="#">View</a>	4202200	T-Mobile Central, LLC dba T-Mobile	Cellular	A	Bellevue	WA
<a href="#">View</a>	4002500	TAG Mobile Bankruptcy Sale Entity, LLC	Cellular	D	Plano	TX
<a href="#">View</a>	4107200	Telefonica Global Solutions USA, Inc.	Cellular	D	Miami	FL
<a href="#">View</a>	4112100	Tello LLC	Cellular	A	Atlanta	GA
<a href="#">View</a>	4108900	Telrite Corporation	Cellular	D	Covington	GA
<a href="#">View</a>	4108450	Tempo Telecom, LLC	Cellular	D	Dallas	TX
<a href="#">View</a>	4113900	TERRACOM Inc. d/b/a Maxsip Tel	Cellular	C	Chattanooga	TN
<a href="#">View</a>	4113950	THE LIGHT PHONE INC.	Cellular	D	Brooklyn	NY
<a href="#">View</a>	4110400	Torch Wireless Corp.	Cellular	B	Bartlett	TN
<a href="#">View</a>	4103300	Touchtone Communications, Inc.	Cellular	D	Cedar Knolls	NJ
<a href="#">View</a>	4104200	TracFone Wireless, Inc.	Cellular	D	Miami	FL
<a href="#">View</a>	4112250	TROOMI WIRELESS, Inc.	Cellular	D	Orem	UT
<a href="#">View</a>	4114600	TruConnect Communications, Inc.	Cellular	C	Los Angeles	CA
<a href="#">View</a>	4002000	Truphone, Inc.	Cellular	D	Durham	NC
<a href="#">View</a>	4112600	Tube Incorporated dba Reach Mobile	Cellular	D	Atlanta	GA
<a href="#">View</a>	4112750	Unity Wireless, Inc.	Cellular	D	Pembroke Pines	FL
<a href="#">View</a>	4110300	UVNV, Inc. d/b/a Mint Mobile	Cellular	D	Costa Mesa	CA
<a href="#">View</a>	10630	Verizon Americas LLC dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
<a href="#">View</a>	4113300	Via Wireless, LLC	Cellular	D	Houston	TX
<a href="#">View</a>	4110800	Visible Service LLC	Cellular	D	Basking Ridge	NJ
<a href="#">View</a>	4113750	VOLT MOBILE Inc	Cellular	C	Delray Beach	FL
<a href="#">View</a>	4114450	WeIncentivize LLC d/b/a ChosenWireless	Cellular	C	San Diego	CA

<a href="#">View</a>	4113000	Whoop Connect Inc.	Cellular	D	Melbourne	FL
<a href="#">View</a>	4106500	WiMacTel, Inc.	Cellular	D	Calgary, AB	CA
<a href="#">View</a>	4110950	Wing Tel Inc.	Cellular	D	New York	NY
<a href="#">View</a>	4113400	Wrizzle, Inc.	Cellular	D	New Milford	CT
<a href="#">View</a>	4113650	XCHANGE TELECOM LLC	Cellular	D	Brooklyn	NY
<a href="#">View</a>	4112150	Zefcom, LLC	Cellular	C	Wichita Falls	TX



**EXHIBIT E**  
**FAA**



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

Aeronautical Study No.  
2023-ASO-31440-OE

Issued Date: 01/10/2024

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-1604 EV Sharpe  
Location: Calvert City, KY  
Latitude: 36-57-56.81N NAD 83  
Longitude: 88-26-54.39W  
Heights: 432 feet site elevation (SE)  
199 feet above ground level (AGL)  
631 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.**

**See attachment for additional condition(s) or information.**

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 07/10/2025 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 our office at (718) 553-2611, or [angelique.eersteling@faa.gov](mailto:angelique.eersteling@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2023-ASO-31440-OE.

**Signature Control No: 605128247-609213218**

( DNE )

Angelique Eersteling  
Technician

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

cc: FCC

**BASIS FOR DECISION**

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.

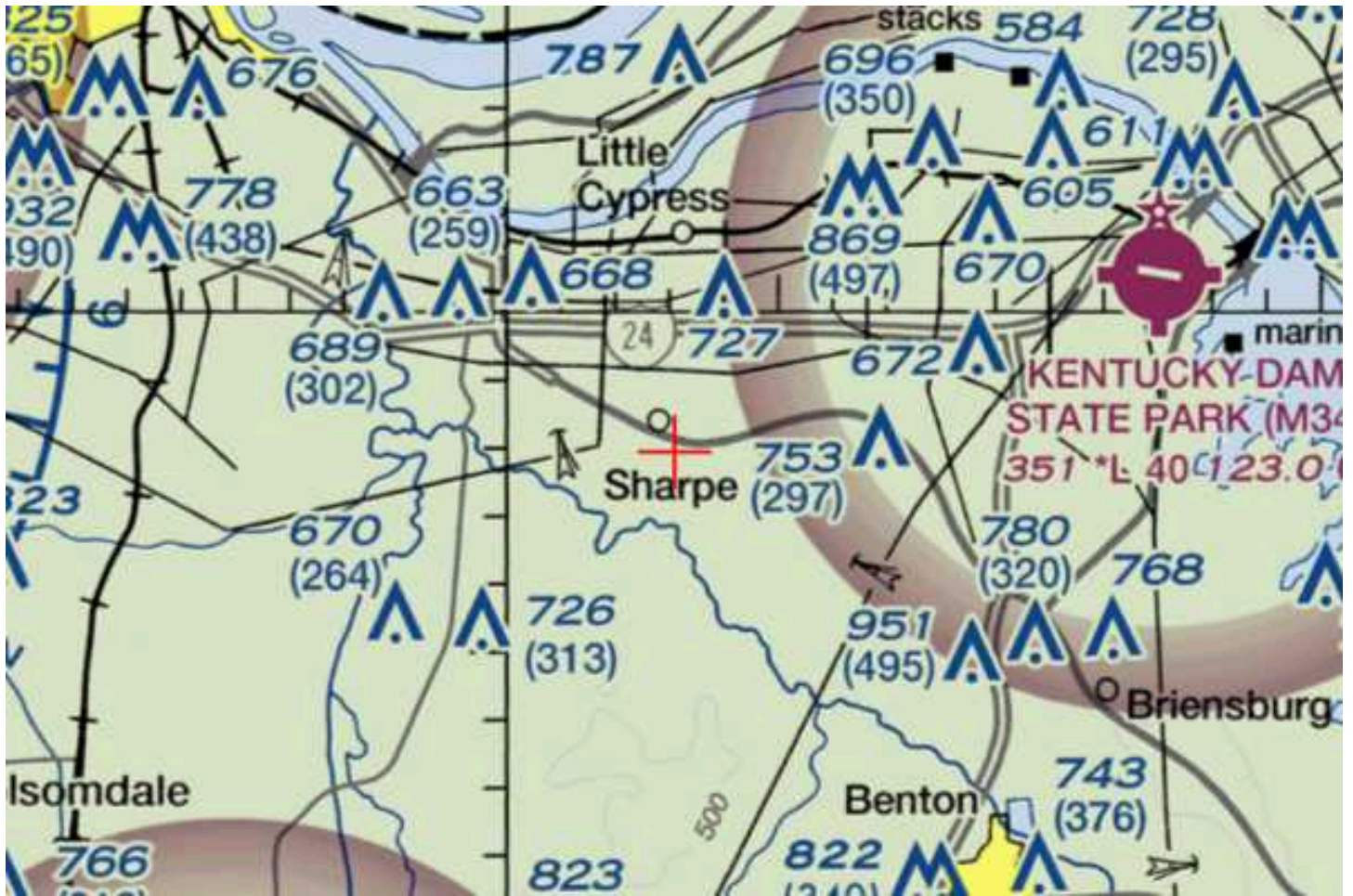


Proposed new antenna tower

**Frequency Data for ASN 2023-ASO-31440-OE**

<b>LOW FREQUENCY</b>	<b>HIGH FREQUENCY</b>	<b>FREQUENCY UNIT</b>	<b>ERP</b>	<b>ERP UNIT</b>
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







**EXHIBIT F**  
**KENTUCKY AIRPORT ZONING COMMISSION**

**From:** [Airport Zoning Commission](#)  
**To:** [Jonathan Greene](#)  
**Subject:** RE: KAZC Permit not Required - FW: KY-1604 EV Sharpe  
**Date:** Monday, January 8, 2024 3:29:27 PM

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## EXTERNAL EMAIL

Jonathan,

If the temporary structure/crane exceeds 200 ft above ground level, a Permit is required.

A Long-Term Permit is required for temporary structures of more than 120 days; submit a TC 55-2.

A Temporary Permit is required for temporary structures of 120 days or less.

For Temporary Permits send an email which contains the required information.

Date(s) of Work

Latitude & Longitude ( xx° xx' xx.xx" N, xx° xx' xx.xx" W)

Site Elevation (xxx ft)

Structure Height (xxx ft) – The highest point above ground level during the operation

Name and Contact Number of an on-site Point of Contact

Name and Address of the company performing the work

Contact us with any questions.

Regards,



### **Anthony Adams**

[Airport Zoning Commission](#), Administrator  
Department of Aviation  
90 Airport Road, Bldg 400  
Frankfort, Kentucky 40601  
(502) 564-0151 office  
(502) 330-4022 mobile  
[Airport Zoning Commission | KYTC](#)

---

**From:** Jonathan Greene <jgreene@apctowers.com>  
**Sent:** Monday, January 8, 2024 3:19 PM  
**To:** Airport Zoning Commission <AirportZoning@ky.gov>  
**Subject:** RE: KAZC Permit not Required - FW: KY-1604 EV Sharpe

Anthony,

A new application for temporary structure will still need to be submitted for any cranes used,

correct?

Thanks,

Jonathan Greene  
Director of Development  
  
8601 Six Forks Road, Suite 250  
Raleigh, NC 27615  
C: 704-724-8382

---

**From:** Airport Zoning Commission <[AirportZoning@ky.gov](mailto:AirportZoning@ky.gov)>  
**Sent:** Monday, January 8, 2024 1:22 PM  
**To:** Jonathan Greene <[jgreene@apctowers.com](mailto:jgreene@apctowers.com)>  
**Subject:** KAZC Permit not Required - FW: KY-1604 EV Sharpe

## EXTERNAL EMAIL

Jonathan,

Thank you for checking on this location and height.  
This location and height does not fall within KAZC jurisdiction and does not require a KAZC Permit.

Contact us with any questions.

### **Aeronautical Study Result**

The structure is not in KAZC's jurisdiction and does not require a permit.

Structure's Coordinates: 36°57'56.81"N, 88°26'54.39"W

Structure's Height :199ft

User-submitted ground elevation is 431 ft.

DEM's ground elevation is 431.94 ft (KYAPED 2-FT DEM Phase 2).

Regards,



**Anthony Adams**  
KY Airport Zoning  
Commission, Administrator  
Department of Aviation  
90 Airport Road, Bldg 400  
Frankfort, Kentucky 40601  
(502) 564-0151 office  
(502) 330-4022 mobile  
[Airport Zoning Commission | KYTC](#)

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**From:** Jonathan Greene <[jgreene@apctowers.com](mailto:jgreene@apctowers.com)>  
**Sent:** Thursday, December 21, 2023 4:08 PM

**To:** Airport Zoning Commission <[AirportZoning@ky.gov](mailto:AirportZoning@ky.gov)>

**Subject:** KY-1604 EV Sharpe

**\*\*CAUTION\*\* PDF attachments may contain links to malicious sites. Please contact the COT Service Desk [ServiceCorrespondence@ky.gov](mailto:ServiceCorrespondence@ky.gov) for any assistance.**

Good Afternoon,

I believe that a Ben Low from Chaille Tower Consultants reached out to your department regarding our application. See attached and let me know if you all have any questions or need any additional information to get this process started.

Please let me know the meeting date once on the schedule, thank you!

Happy Holidays!!!

**Upcoming PTO Notice, I will be OOO 12/22-12/26, 12/29-1/1**

Jonathan Greene

Director of Development

 APC Towers

8601 Six Forks Road, Suite 250

Raleigh, NC 27615

C: 704-724-8382



**EXHIBIT G**  
**GEOTECHNICAL REPORT**

## **GEOTECHNICAL ENGINEERING REPORT**

**EV SHARPE**

### **Proposed 195-ft Monopole Tower**

7261 US Highway 68  
Benton, KY 42025  
Marshall County

Latitude/Longitude: 36.965781, -88.448442

WMG Project No. 2024-593  
February 5, 2024

Wilkinson Management Group is pleased to submit this **Geotechnical Report** for the proposed tower site at the Latitude/Longitude coordinates provided above. The purpose of the following report is to summarize the soil/rock conditions encountered during the subsurface exploration at this site and provide geotechnical engineering parameters for structural design of the proposed tower foundation system.

We at Wilkinson Management Group appreciate the opportunity to provide continuing professional services to you. Please feel free to contact us with any questions or if you need additional assistance.

Respectfully Submitted,



Chip Wilkinson, P.E.  
Principal Geotechnical Engineer



*Attachments:*

- Site Location Map*
- Aerial Photograph*
- Boring Location Plan*
- Boring Log*
- USGS Topographic Map*
- USDA Soil Survey Map and Map Unit Descriptions*
- Hydrologic Soil Group Classifications*
- Unified Soil Classification System Charts*
- General Notes*
- Average Frost Depth Map – United States*

## **INTRODUCTION**

WMG is pleased to submit this Geotechnical Report for the afore-mentioned project. The purpose of this study was to obtain information on the subsurface conditions at the proposed project site; and, based on this information, to provide geotechnical recommendations regarding the design and construction of the tower foundation system for the proposed tower. One sample boring was drilled to explore and define the soil/rock conditions at the proposed tower center. The boring log along with a Boring Location Plan showing the location of the boring are attached to this report.

## **SITE DESCRIPTION**

The site for the proposed tower is currently an open relatively flat agricultural field located at 7261 US Highway 68 in Benton (Marshall County), KY. Surface water drainage is considered poor to fair and the water infiltration rate is considered low to moderate. A Site Location Map, Aerial Photograph, USGS Topographic Map and USDA Soil Survey Map associated with this site are attached to this report.

## **SUBSURFACE EXPLORATION**

The subsurface exploration consisted of drilling and sampling one boring at the proposed tower center at the Latitude/Longitude coordinates provided by Bowman Consultants to a depth of about 40 feet below existing grade. The ground surface elevation at the tower center is reportedly 432 feet AMSL based on survey data provided by Bowman. The location and elevation of the boring should be considered accurate only to the degree implied by the means and methods used to define them.

The boring was drilled with a D-25 track-mounted rotary drill rig using hollow stem augers to advance the borehole. Representative soil samples were obtained by the split-barrel sampling procedure in general accordance with the appropriate ASTM standards. In the split-barrel sampling procedure, the number of blows required to advance a standard 2inch O.D. split-barrel sampler the last 12 inches of the typical total 18-inch penetration by means of a 140-pound hammer with a free fall of 30 inches, is the standard penetration resistance value (N-Value). This value is used to estimate the in-situ relative density of cohesion-less soils and the consistency of cohesive soils. The sampling depths and penetration distance, plus the standard penetration resistance values, are shown on the boring log. The samples were sealed and shipped to our office for observation and classification by a Licensed Geotechnical Engineer.

An automatic SPT hammer was used to advance the split-barrel sampler in the boring performed at this site. A significantly greater efficiency is achieved with the automatic hammer compared to the conventional safety hammer operated with a cathead and rope. This higher efficiency has an appreciable effect on the standard penetration resistance blow count (N) values. The effect of the automatic hammer's efficiency has been considered in the interpretation and analysis of the subsurface information for this report.

A field log of the sample boring was prepared by the drill crew. This log included visual classifications of the materials encountered during drilling as well as the driller's interpretation of the subsurface conditions between samples. The final boring log (B-1) included with this report represents an interpretation of the field log and includes modifications based on observations made by a licensed Geotechnical Engineer.

## **SOIL CLASSIFICATION**

The soil samples were classified based on visual observation, texture and plasticity. Information from these observations was used in conjunction with field penetration test data to evaluate soil strength in-situ, volume change potential, and soil classification.

The descriptions of the soils indicated on the boring log are in accordance with the enclosed General Notes and the Unified Soil Classification System. Estimated group symbols according to the Unified Soil Classification System are given on the boring logs. A brief description of this classification system is attached to this report.

## **SUBSURFACE CONDITIONS**

The sample boring (B-1) was drilled in an open agricultural field at the proposed tower center as discussed in this report. The boring location is shown on the attached Boring Location Plan.

As shown on the attached sample boring log (B-1), the boring encountered about 6 to 12 inches of grass and topsoil (agricultural field) underlain by stiff to very stiff brown SILTY CLAY (CL) with fine sand extending to a depth of about 12 feet below grade. The stiff to very stiff silty clay is underlain by dense to very dense light brown fine to medium clayey sand with numerous rock fragments (Sandstone Residual) extending to the boring completion depth at about 40 feet below the ground surface.

### **Groundwater Conditions**

Groundwater was not observed in the sample boring (B-1) during soil drilling and immediately after completion of the soil drilling operations. Long term monitoring in cased holes or piezometers would be necessary to accurately evaluate the potential range of groundwater conditions on the site.

It is important to note that fluctuations in the groundwater level can occur over low permeability soil layers (such as those encountered at this site) following periods of heavy or prolonged precipitation. **When groundwater is present, the silty/sandy soils at this site possess a very high potential for caving during excavation operations.** With this said, we strongly recommend utilizing temporary steel casing during drilled pier excavation operations or shoring during shallow pad and pedestal foundation excavation operations to maintain an open and dry excavation during the placement of steel reinforcement and concrete.



## **ENGINEERING RECOMMENDATIONS**

The following engineering recommendations are based on information provided to WMG regarding the Geotechnical design requirements for the proposed tower, the field testing performed on the soil/rock encountered at this site, and other information discussed in this report. This report does not reflect variations that may occur across the site, or due to the modifying effects of weather. The nature and extent of such variations may not become evident until during or after construction. If variations appear, we should be immediately notified so that further evaluation and supplemental recommendations can be provided.

### **Site Preparation**

As part of this project, all vegetation, topsoil, tree roots, organic-containing soils, and any soft or otherwise unsuitable materials should be removed from the site. It is important to note that the site is located in an agricultural field with a relatively deep topsoil layer. Based on our boring, we estimate a stripping depth on the order of about 6 to 12 inches should be expected. This stripping depth may not remove all dark colored soil but would remove the material containing the highest organic content. We recommend the actual stripping depth required be determined by a representative of WMG or other qualified personnel during construction.

### **Fill Material**

Fill material (if any) should consist of approved materials, free of organics and debris. Structural fill, either imported or on-site, should be a low plasticity cohesive soil with a liquid limit less than 45% and a plasticity index less than 25%, or a granular material with a maximum size of 3 inches.

All fill materials (if required) should be placed in loose lifts not exceeding 9 inches in thickness (loose measure) and thoroughly compacted. All fill should be compacted to at least 98% of the material's standard Proctor maximum dry density (ASTM D698). The soil's water content at the time of compaction should be at  $\pm 3\%$  of the soil's optimum moisture value as determined by the standard Proctor test.

Compaction equipment and techniques will be dependent on the type of material being used as fill. A sheepfoot roller should provide adequate compaction for cohesive (clayey) soils. A vibratory-type compactor such as a smooth drum roller will be required for any non-cohesive (sandy) soils and/or gravel.

## GEOTECHNICAL RECOMMENDATIONS

Based on the results of this study, we recommend supporting the proposed 195-ft Monopole tower on either a drilled cast-in-place-concrete pier with a minimum diameter of 4 feet or a shallow mat and pedestal foundation bearing at least 8 feet below the ground surface. The following Ultimate Design Parameters may be utilized for foundation design. A frost depth of 1 ft should be taken into consideration for the design of foundation elements.

An appropriate factor of safety should be applied to these ultimate values to determine allowable design parameters. We suggest using FS=2 for skin friction and passive pressure and FS=3 for bearing capacity.

The cohesion, internal angle of friction and unit weight parameters given in the following table are based on the results of the sample boring, published values and our experience with similar soil/rock types. These values should, therefore, be considered approximate.

**Geotechnical Ultimate Design Parameters**

Depth (feet)	Soil/Rock Description	Unit Weight (pcf)	Average N-Value (bpf)	Ultimate Skin Friction (Tension) (psf)	Ultimate Skin Friction (Compression) (psf)	Sliding Friction Coefficient @ Base	Ultimate Passive Pressure (psf)	Ultimate Bearing Capacity (psf)	Internal Angle of Friction (Degrees)	Cohesive Strength (psf)
0 – 1	Grass, topsoil and silty clay (Agricultural Field)	100	-	Ignore	Ignore	Ignore	Ignore	Ignore	-	-
1 – 8	Stiff SILTY CLAY with fine sand (CL)	120	12	750	1,000	0.35	3,500	7,500	0	1,750
8 – 12	Very stiff SILTY CLAY with fine sand and rock fragments (CL)	125	22-50/6"	1,500	2,000	0.35	6,000	18,000	0	3,000
12 – 22	Dense FINE TO MEDIUM CLAYEY SAND (SC) with numerous rock fragments (Sandstone Residual)	130	32-50/3"	2,250	3,000	0.35	8,000	24,000	0	4,000
22 – 32	Very dense FINE TO MEDIUM CLAYEY SAND (SC) with numerous rock fragments (Sandstone Residual)	135	51	3,000	4,000	0.45	12,000	36,000	0	6,000
32 – 40	Very dense FINE TO MEDIUM CLAYEY SAND (SC) with numerous rock fragments (Sandstone Residual)	140	50-50/2"	5,000	7,000	0.45	20,000	60,000	0	10,000

## **QUALIFICATIONS**

The analysis and recommendations presented in this report are based upon the data obtained from the boring performed at this site and from other information discussed in this report. This report does not reflect variations that may occur across the site or due to the modifying effects of weather.

This report has been prepared for the exclusive use of **BOWMAN** for specific application to the project discussed herein and has been prepared in accordance with generally accepted geotechnical engineering practices. No warranties, either expressed or implied, are intended or made.

In the event changes in the nature or design as outlined in this report are planned, the conclusions and recommendations contained in this report shall not be considered valid unless ***Wilkinson Management Group*** reviews the changes and either verifies or modifies the conclusions of this report in writing. The scope of services for this project does not include either specifically or by implication any environmental assessment of the site or identification of contaminated or hazardous materials or conditions. If the owner is concerned about the potential for such contamination, other studies should be undertaken.

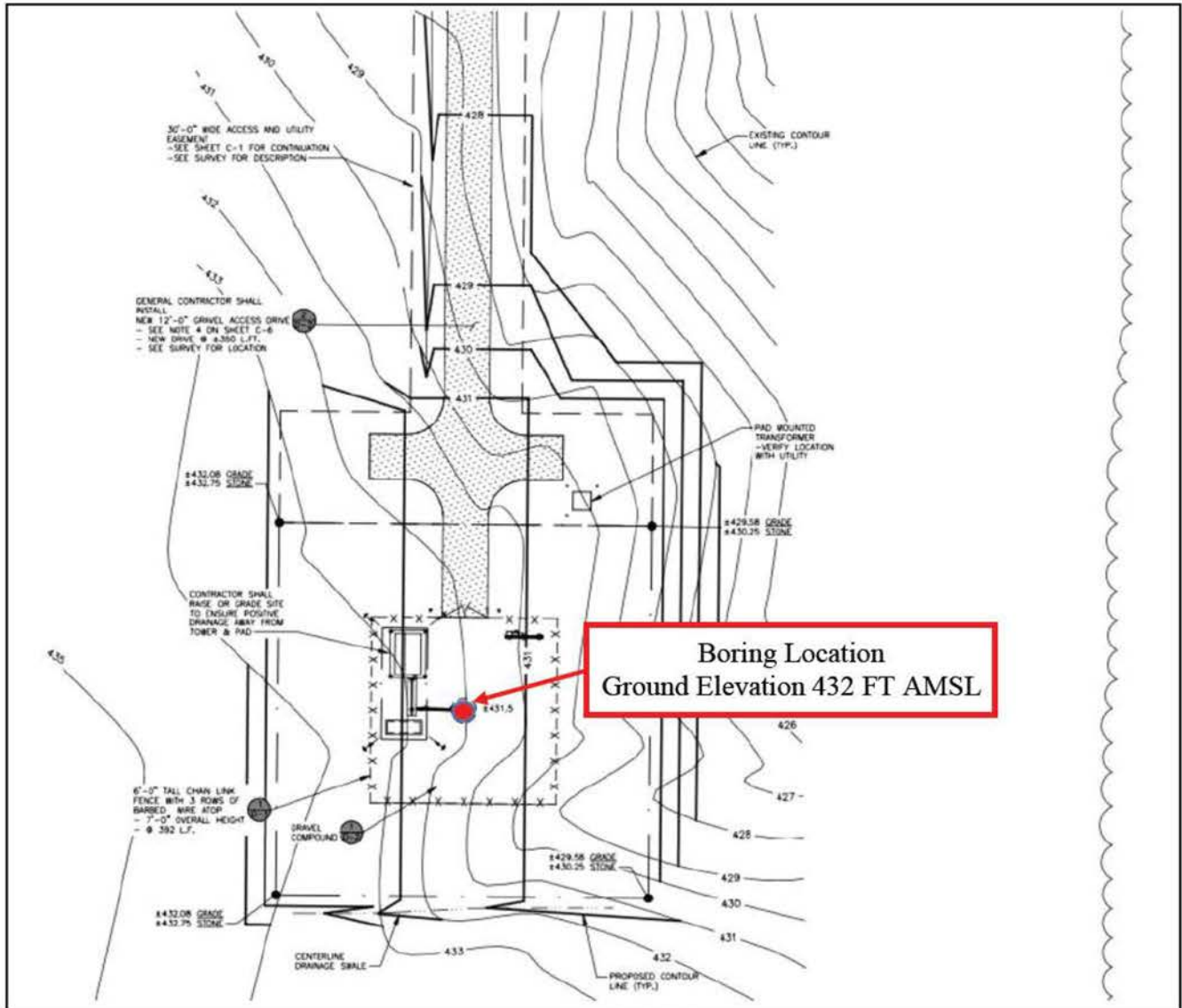


**Site Location Map**



**Aerial Photograph**





**Boring Location  
Ground Elevation 432 FT AMSL**

**Boring Location Plan**

**WMG** (Wilkinson Management Group PLLC)  
 2203 Lowell Avenue  
 Louisville Kentucky 40205  
 502-773-0181 (mobile)

**BORING # 1 (Page 1 of 2)**



Project Name/Site D **EV SHARPE - Benton, KY**

Date of Boring **01/27/2024**

Groundwater Level During Drilling (feet) **Not Encountered**

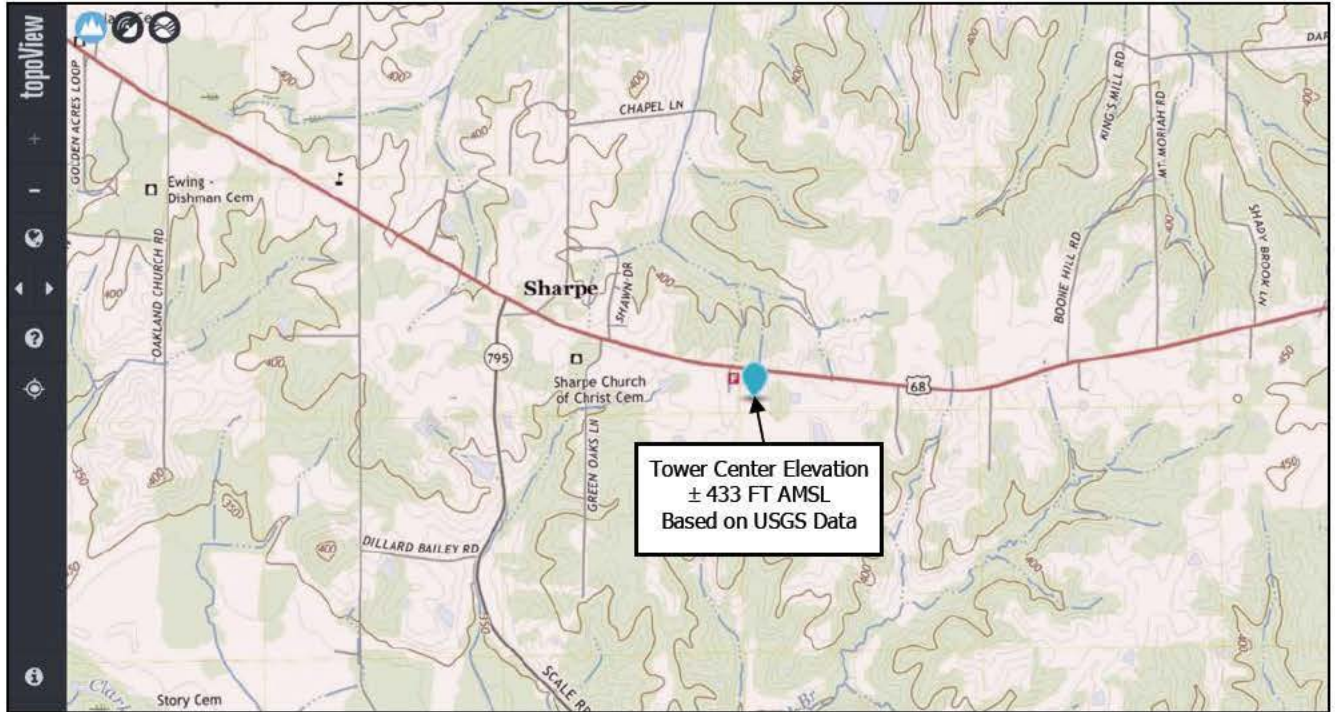
Groundwater Level @ Drilling Completion (feet) **Not Encountered**

Ground Surface Elevation (feet) **432 FT AMSL**

Depth (ft)	Elevation	Sample Type	Sample Number	N-value	RQD (%)	Recovery	Cohesive Strength (psf)	Water Content	USCS	Graphic Log	Material Description
											Topsoil Grass and Silty Clay (Agricultural Field)
2.5		SS	1	10	N/A	18	1 250	Moist	CL		Stiff to very stiff brown S LTY CLAY with fine sand
5		SS	2	12	N/A	18	1 750	Moist	CL		
7.5		SS	3	16	N/A	18	2 250	Moist	CL		
10		SS	4	22-50/6"	N/A	10	3 000	Slightly Moist	CL		
12.5											- Very stiff with rock fragments below 8 feet
15		SS	5	30-50/3"	N/A	8	4 000	Dry	SC		Dense light brown F NE TO MED UM CLAYEY SAND with numerous rock fragments (Sandstone Residual)
17.5											
20		SS	6	35-50/2"	N/A	7	4 000	Dry	SC		
22.5											- Very dense below 22 feet
25		SS	7	52	N/A	13	6 000	Dry	SC		

Continued Next Page





**USGS Topographic Map – Scale 1:24000**



**USDA Soil Survey Map**



## Calloway and Marshall Counties, Kentucky

### GrB2—Grenada silt loam, 2 to 6 percent slopes, eroded

#### Map Unit Setting

*National map unit symbol:* 2wn5t  
*Elevation:* 310 to 640 feet  
*Mean annual precipitation:* 52 to 62 inches  
*Mean annual air temperature:* 48 to 69 degrees F  
*Frost-free period:* 175 to 244 days  
*Farmland classification:* All areas are prime farmland

#### Map Unit Composition

*Grenada, eroded, and similar soils:* 90 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Grenada, Eroded

##### Setting

*Landform:* Ridges  
*Landform position (two-dimensional):* Shoulder  
*Landform position (three-dimensional):* Nose slope  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Fine-silty noncalcareous loess

##### Typical profile

*Ap - 0 to 5 inches:* silt loam  
*Bw - 5 to 21 inches:* silt loam  
*E - 21 to 28 inches:* silt loam  
*Btx/E - 28 to 38 inches:* silt loam  
*Btx - 38 to 80 inches:* silt loam

##### Properties and qualities

*Slope:* 2 to 6 percent  
*Depth to restrictive feature:* 17 to 36 inches to fragipan  
*Drainage class:* Moderately well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to moderately high (0.06 to 0.20 in/hr)  
*Depth to water table:* About 18 to 32 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Available water supply, 0 to 60 inches:* Moderate (about 6.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 2e  
*Hydrologic Soil Group:* C

Map Unit Description: Grenada silt loam, 2 to 6 percent slopes, eroded—Calloway and Marshall Counties, Kentucky

---

*Ecological site:* F134XY012AL - Northern Loess Fragipan Upland - PROVISIONAL  
*Hydric soil rating:* No

#### **Minor Components**

##### **Calloway**

*Percent of map unit:* 6 percent  
*Landform:* Flats  
*Landform position (three-dimensional):* Tread  
*Down-slope shape:* Concave  
*Across-slope shape:* Linear  
*Ecological site:* F134XY004AL - Northern Moderately Wet Loess Interfluvium - PROVISIONAL  
*Hydric soil rating:* No

##### **Collins**

*Percent of map unit:* 4 percent  
*Landform:* Flood-plain steps  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* F134XY018AL - Northern Alluvial Flat - PROVISIONAL  
*Hydric soil rating:* No

#### **Data Source Information**

Soil Survey Area: Calloway and Marshall Counties, Kentucky  
Survey Area Data: Version 19, Sep 11, 2023

## Calloway and Marshall Counties, Kentucky

### PuC3—Purchase-Loring complex, 6 to 12 percent slopes, severely eroded

#### Map Unit Setting

*National map unit symbol:* 2dy10  
*Elevation:* 340 to 590 feet  
*Mean annual precipitation:* 52 to 62 inches  
*Mean annual air temperature:* 48 to 69 degrees F  
*Frost-free period:* 182 to 210 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Purchase, severely eroded, and similar soils:* 70 percent  
*Loring, severely eroded, and similar soils:* 20 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of  
the mapunit.*

#### Description of Purchase, Severely Eroded

##### Setting

*Landform:* Ridges  
*Landform position (two-dimensional):* Backslope  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Thick fine-silty noncalcareous loess

##### Typical profile

*Ap - 0 to 4 inches:* silt loam  
*Btx - 4 to 14 inches:* silt loam  
*Bx - 14 to 51 inches:* silt loam  
*BC - 51 to 80 inches:* silt loam

##### Properties and qualities

*Slope:* 6 to 12 percent  
*Depth to restrictive feature:* 4 to 18 inches to fragipan  
*Drainage class:* Moderately well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low  
to moderately low (0.00 to 0.06 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Available water supply, 0 to 60 inches:* Very low (about 0.7 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 4e  
*Hydrologic Soil Group:* D

*Ecological site:* F134XY012AL - Northern Loess Fragipan Upland -  
PROVISIONAL  
*Hydric soil rating:* No

### **Description of Loring, Severely Eroded**

#### **Setting**

*Landform:* Ridges  
*Landform position (two-dimensional):* Backslope  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Thick fine-silty noncalcareous loess

#### **Typical profile**

*Ap - 0 to 4 inches:* silt loam  
*Bt - 4 to 21 inches:* silt loam  
*Btx - 21 to 48 inches:* silt loam  
*C - 48 to 80 inches:* silt loam

#### **Properties and qualities**

*Slope:* 6 to 12 percent  
*Depth to restrictive feature:* 20 to 24 inches to fragipan  
*Drainage class:* Moderately well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water*  
*(Ksat):* Moderately low to moderately high (0.06 to 0.20 in/hr)  
*Depth to water table:* About 18 to 30 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Available water supply, 0 to 60 inches:* Low (about 3.6 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 4e  
*Hydrologic Soil Group:* D  
*Ecological site:* F134XY012AL - Northern Loess Fragipan Upland -  
PROVISIONAL  
*Hydric soil rating:* No

### **Minor Components**

#### **Collins**

*Percent of map unit:* 4 percent  
*Ecological site:* F134XY018AL - Northern Alluvial Flat -  
PROVISIONAL  
*Hydric soil rating:* No

#### **Falaya**

*Percent of map unit:* 4 percent  
*Ecological site:* F134XY019AL - Northern Moderately Wet Alluvial  
Flat - PROVISIONAL  
*Hydric soil rating:* No



Map Unit Description: Purchase-Loring complex, 6 to 12 percent slopes, severely eroded---  
Calloway and Marshall Counties, Kentucky

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**Calloway**

*Percent of map unit:* 2 percent

*Ecological site:* F134XY004AL - Northern Moderately Wet Loess

Interfluv - PROVISIONAL

*Hydric soil rating:* No

**Data Source Information**

Soil Survey Area: Calloway and Marshall Counties, Kentucky

Survey Area Data: Version 19, Sep 11, 2023



## Hydrologic Soil Groups

Soils are classified by the Natural Resource Conservation Service into four Hydrologic Soil Groups based on the soil's runoff potential. The four Hydrologic Soils Groups are A, B, C and D. Where A's generally have the smallest runoff potential and D's the greatest.

Details of this classification can be found in 'Urban Hydrology for Small Watersheds' published by the Engineering Division of the Natural Resource Conservation Service, United States Department of Agriculture, Technical Release-55.











**Group A** is sand, loamy sand or sandy loam types of soils. It has low runoff potential and high infiltration rates even when thoroughly wetted. They consist chiefly of deep, well to excessively drained sands or gravels and have a high rate of water transmission.

**Group B** is silt loam or loam. It has a moderate infiltration rate when thoroughly wetted and consists chiefly or moderately deep to deep, moderately well to well drained soils with moderately fine to moderately coarse textures.

**Group C** soils are sandy clay loam. They have low infiltration rates when thoroughly wetted and consist chiefly of soils with a layer that impedes downward movement of water and soils with moderately fine to fine structure.

**Group D** soils are clay loam, silty clay loam, sandy clay, silty clay or clay. This HSG has the highest runoff potential. They have very low infiltration rates when thoroughly wetted and consist chiefly of clay soils with a high swelling potential, soils with a permanent high water table, soils with a claypan or clay layer at or near the surface and shallow soils over nearly impervious material.

## Unified Soil Classification System

Major Divisions			Letter	Symbol	Description	
<b>Coarse-grained Soils More than 1/2 retained on the No. 200 Sieve</b>	<b>Gravels</b> More than 1/2 coarse fraction retained on the No. 4 sieve	Clean Gravels	GW		Well-graded gravels and gravel-sand mixtures, little or no fines.	
		Gravels With Fines	GP		Poorly-graded gravels and gravel-sand mixtures, little or no fines.	
		Gravels With Fines	GM		Silty gravels, gravel-sand-silt mixtures.	
		Gravels With Fines	GC		Clayey gravels, gravel-sand-clay mixtures.	
	<b>Sands</b> More than 1/2 passing through the No. 200 sieve	Clean Sands	SW		Well-graded sands and gravelly sands, little or no fines.	
		Clean Sands	SP		Poorly-graded sands and gravelly sands, little or no fines.	
		Sands With Fines	SM		Silty sands, sand-silt mixtures	
		Sands With Fines	SC		Clayey sands, sandy-clay mixtures.	
	<b>Fine-grained Soils More than 1/2 passing through the No. 200 Sieve</b>	<b>Silts and Clays</b> Liquid Limit less than 50%		ML		Inorganic silts, very fine sands, rock flour, silty or clayey fine sands.
				CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
OL					Organic clays of medium to high plasticity.	
<b>Silts and Clays</b> Liquid Limit greater than 50%		MH		Inorganic silts, micaceous or diatomaceous fine sands or silts, elastic silts.		
		CH		Inorganic clays of high plasticity, fat clays.		
		OH		Organic clays of medium to high plasticity.		
<b>Highly Organic Soils</b>			PT		Peat, muck, and other highly organic soils.	
<b>Consistency Classification</b>						
<b>Granular Soils</b>			<b>Cohesive Soils</b>			
Description - Blows Per Foot (Corrected)			Description - Blows Per Foot (Corrected)			
	<u>MCS</u>	<u>SPT</u>		<u>MCS</u>	<u>SPT</u>	
Very loose	<5	<4	Very soft	<3	<2	
Loose	5 - 15	4 - 10	Soft	3 - 5	2 - 4	
Medium dense	16 - 40	11 - 30	Firm	6 - 10	5 - 8	
Dense	41 - 65	31 - 50	Stiff	11 - 20	9 - 15	
Very dense	>65	>50	Very Stiff	21 - 40	16 - 30	
			Hard	>40	>30	
MCS = Modified California Sampler			SPT = Standard Penetration Test Sampler			

# UNIFIED SOIL CLASSIFICATION SYSTEM

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests <sup>A</sup>				Soil Classification		
				Group Symbol	Group Name <sup>B</sup>	
Coarse-Grained Soils More than 50% retained on No. 200 sieve	Gravels More than 50% of coarse fraction retained on No. 4 sieve	Clean Gravels Less than 5% fines <sup>C</sup>	$Cu \geq 4$ and $1 \leq Cc \leq 3^E$	GW	Well-graded gravel <sup>F</sup>	
			$Cu < 4$ and/or $1 > Cc > 3^E$	GP	Poorly graded gravel <sup>F</sup>	
		Gravels with Fines More than 12% fines <sup>C</sup>	Fines classify as ML or MH	GM	Silty gravel <sup>F, G, H</sup>	
	Sands 50% or more of coarse fraction passes No. 4 sieve	Clean Sands Less than 5% fines <sup>E</sup>	$Cu \geq 6$ and $1 \leq Cc \leq 3^E$	SW	Well-graded sand <sup>F</sup>	
			$Cu < 6$ and/or $1 > Cc > 3^E$	SP	Poorly graded sand <sup>F</sup>	
		Sands with Fines More than 12% fines <sup>D</sup>	Fines classify as ML or MH	SM	Silty sand <sup>G, H, I</sup>	
Fine-Grained Soils 50% or more passes the No. 200 sieve	Silt and Clays Liquid limit less than 50	inorganic	$Pi > 7$ and plots on or above "A" line <sup>J</sup>	CL	Lean clay <sup>K, L, M</sup>	
			$Pi < 4$ or plots below "A" line <sup>J</sup>	ML	Silt <sup>K, L, M</sup>	
		organic	Liquid limit — oven dried Liquid limit — not dried	< 0.75	OL	Organic clay <sup>K, L, M, N</sup> Organic silt <sup>K, L, M, O</sup>
		inorganic	$Pi$ plots on or above "A" line $Pi$ plots below "A" line	CH	Fat clay <sup>K, L, M</sup> MH	Elastic silt <sup>K, L, M</sup>
	Silt and Clays Liquid limit 50 or more	inorganic	Liquid limit — oven dried Liquid limit — not dried	< 0.75	OH	Organic clay <sup>K, L, M, P</sup> Organic silt <sup>K, L, M, O</sup>
		organic	Liquid limit — oven dried Liquid limit — not dried	< 0.75	OH	Organic clay <sup>K, L, M, P</sup> Organic silt <sup>K, L, M, O</sup>
	Highly organic soils	Primarily organic matter, dark in color, and organic odor			PT	Peat

<sup>A</sup>Based on the material passing the 3-in. (75-mm) sieve.

<sup>B</sup>If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.

<sup>C</sup>Gravels with 5 to 12% fines require dual symbols.

GW-GM well-graded gravel with silt  
 GP-GM poorly graded gravel with silt  
 GW-GC well-graded gravel with clay  
 GP-GC poorly graded gravel with clay

<sup>D</sup>Sands with 5 to 12% fines require dual symbols.

SW-SM well-graded sand with silt  
 SP-SM poorly graded sand with silt  
 SW-SC well-graded sand with clay  
 SP-SC poorly graded sand with clay

$$C_u = D_{60}/D_{10} \quad C_c = \frac{(D_{30})^3}{D_{60} \times D_{10}}$$

<sup>E</sup>If soil contains  $\geq 15\%$  sand, add "with sand" to group name.

<sup>G</sup>If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.

<sup>H</sup>If fines are organic, add "with organic fines" to group name.

<sup>I</sup>If soil contains  $\geq 15\%$  gravel, add "with gravel" to group name.

<sup>J</sup>If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.

<sup>K</sup>If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel", whichever is predominant.

<sup>L</sup>If soil contains  $\geq 30\%$  plus No. 200 predominantly sand, add "sandy" to group name.

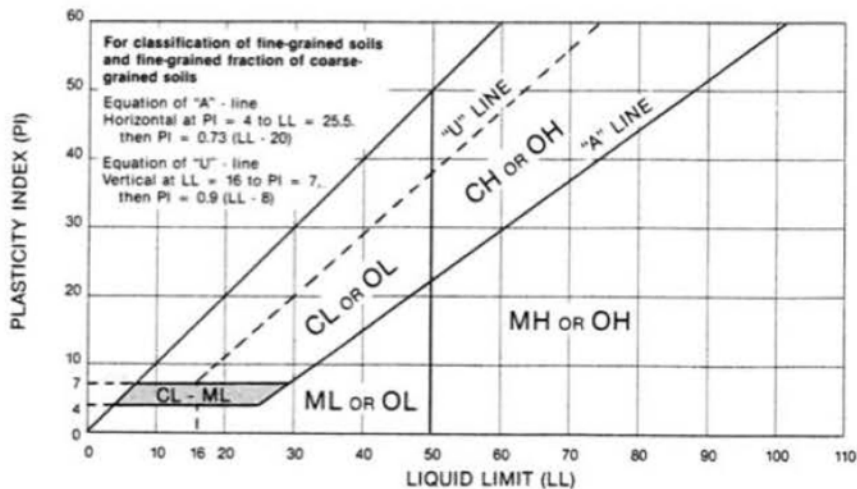
<sup>M</sup>If soil contains  $\geq 30\%$  plus No. 200, predominantly gravel, add "gravelly" to group name.

<sup>N</sup> $Pi \geq 4$  and plots on or above "A" line.

<sup>O</sup> $Pi < 4$  or plots below "A" line.

<sup>P</sup> $Pi$  plots on or above "A" line.

<sup>Q</sup> $Pi$  plots below "A" line.





## GENERAL NOTES

### SAMPLE IDENTIFICATION

The Unified Soil Classification System (USCS), AASHTO 1988 and ASTM designations D2487 and D-2488 are used to identify the encountered materials unless otherwise noted. Coarse-grained soils are defined as having more than 50% of their dry weight retained on a #200 sieve (0.075mm); they are described as: boulders, cobbles, gravel or sand. Fine-grained soils have less than 50% of their dry weight retained on a #200 sieve; they are defined as silts or clay depending on their Atterberg Limit attributes. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size.

### DRILLING AND SAMPLING SYMBOLS

SFA: Solid Flight Auger - typically 4" diameter flights, except where noted.	SS: Split-Spoon - 1 3/8" I.D., 2" O.D., except where noted.
HSA: Hollow Stem Auger - typically 3 1/4" or 4 1/4" I.D. openings, except where noted.	ST: Shelby Tube - 3" O.D., except where noted.
M.R.: Mud Rotary - Uses a rotary head with Bentonite or Polymer Slurry	BS: Bulk Sample
R.C.: Diamond Bit Core Sampler	PM: Pressuremeter
H.A.: Hand Auger	CPT-U: Cone Penetrometer Testing with Pore-Pressure Readings
P.A.: Power Auger - Handheld motorized auger	

### SOIL PROPERTY SYMBOLS

N: Standard "N" penetration: Blows per foot of a 140 pound hammer falling 30 inches on a 2-inch O.D. Split-Spoon.  
 $N_{60}$ : A "N" penetration value corrected to an equivalent 60% hammer energy transfer efficiency (ETR)  
 $Q_u$ : Unconfined compressive strength, TSF  
 $Q_p$ : Pocket penetrometer value, unconfined compressive strength, TSF  
 $w\%$ : Moisture/water content, %  
 LL: Liquid Limit, %  
 PL: Plastic Limit, %  
 PI: Plasticity Index = (LL-PL), %  
 DD: Dry unit weight, pcf  
 ▽, ▽, ▽ Apparent groundwater level at time noted

### RELATIVE DENSITY OF COARSE-GRAINED SOILS

Relative Density	N - Blows/foot
Very Loose	0 - 4
Loose	4 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	50 - 80
Extremely Dense	80+

### ANGULARITY OF COARSE-GRAINED PARTICLES

Description	Criteria
Angular:	Particles have sharp edges and relatively plane sides with unpolished surfaces
Subangular:	Particles are similar to angular description, but have rounded edges
Subrounded:	Particles have nearly plane sides, but have well-rounded corners and edges
Rounded:	Particles have smoothly curved sides and no edges

### GRAIN-SIZE TERMINOLOGY

Component	Size Range
Boulders:	Over 300 mm (>12 in.)
Cobbles:	75 mm to 300 mm (3 in. to 12 in.)
Coarse-Grained Gravel:	19 mm to 75 mm (3/4 in. to 3 in.)
Fine-Grained Gravel:	4.75 mm to 19 mm (No.4 to 3/8 in.)
Coarse-Grained Sand:	2 mm to 4.75 mm (No.10 to No.4)
Medium-Grained Sand:	0.42 mm to 2 mm (No.40 to No.10)
Fine-Grained Sand:	0.075 mm to 0.42 mm (No. 200 to No.40)
Silt:	0.005 mm to 0.075 mm
Clay:	<0.005 mm

### PARTICLE SHAPE

Description	Criteria
Flat:	Particles with width/thickness ratio > 3
Elongated:	Particles with length/width ratio > 3
Flat & Elongated:	Particles meet criteria for both flat and elongated

### RELATIVE PROPORTIONS OF FINES

Descriptive Term	% Dry Weight
Trace:	< 5%
With:	5% to 12%
Modifier:	>12%

## GENERAL NOTES

(Continued)

### CONSISTENCY OF FINE-GRAINED SOILS

<u>Q<sub>u</sub> - TSF</u>	<u>N - Blows/foot</u>	<u>Consistency</u>
0 - 0.25	0 - 2	Very Soft
0.25 - 0.50	2 - 4	Soft
0.50 - 1.00	4 - 8	Firm (Medium Stiff)
1.00 - 2.00	8 - 15	Stiff
2.00 - 4.00	15 - 30	Very Stiff
4.00 - 8.00	30 - 50	Hard
8.00+	50+	Very Hard

### MOISTURE CONDITION DESCRIPTION

<u>Description</u>	<u>Criteria</u>
Dry:	Absence of moisture, dusty, dry to the touch
Moist:	Damp but no visible water
Wet:	Visible free water, usually soil is below water table

### RELATIVE PROPORTIONS OF SAND AND GRAVEL

<u>Descriptive Term</u>	<u>% Dry Weight</u>
Trace:	< 15%
With:	15% to 30%
Modifier:	>30%

### STRUCTURE DESCRIPTION

<u>Description</u>	<u>Criteria</u>	<u>Description</u>	<u>Criteria</u>
Stratified:	Alternating layers of varying material or color with layers at least ¼-inch (6 mm) thick	Blocky:	Cohesive soil that can be broken down into small angular lumps which resist further breakdown
Laminated:	Alternating layers of varying material or color with layers less than ¼-inch (6 mm) thick	Lensed:	Inclusion of small pockets of different soils
Fissured:	Breaks along definite planes of fracture with little resistance to fracturing	Layer:	Inclusion greater than 3 inches thick (75 mm)
Slickensided:	Fracture planes appear polished or glossy, sometimes striated	Seam:	Inclusion 1/8-inch to 3 inches (3 to 75 mm) thick extending through the sample
		Parting:	Inclusion less than 1/8-inch (3 mm) thick

### SCALE OF RELATIVE ROCK HARDNESS

<u>Q<sub>u</sub> - TSF</u>	<u>Consistency</u>
2.5 - 10	Extremely Soft
10 - 50	Very Soft
50 - 250	Soft
250 - 525	Medium Hard
525 - 1,050	Moderately Hard
1,050 - 2,600	Hard
>2,600	Very Hard

### ROCK BEDDING THICKNESSES

<u>Description</u>	<u>Criteria</u>
Very Thick Bedded	Greater than 3-foot (>1.0 m)
Thick Bedded	1-foot to 3-foot (0.3 m to 1.0 m)
Medium Bedded	4-inch to 1-foot (0.1 m to 0.3 m)
Thin Bedded	1¼-inch to 4-inch (30 mm to 100 mm)
Very Thin Bedded	½-inch to 1¼-inch (10 mm to 30 mm)
Thickly Laminated	1/8-inch to ½-inch (3 mm to 10 mm)
Thinly Laminated	1/8-inch or less "paper thin" (<3 mm)

### ROCK VOIDS

<u>Voids</u>	<u>Void Diameter</u>
Pit	<6 mm (<0.25 in)
Vug	6 mm to 50 mm (0.25 in to 2 in)
Cavity	50 mm to 600 mm (2 in to 24 in)
Cave	>600 mm (>24 in)

### GRAIN-SIZED TERMINOLOGY

<u>(Typically Sedimentary Rock)</u>	
<u>Component</u>	<u>Size Range</u>
Very Coarse Grained	>4.76 mm
Coarse Grained	2.0 mm - 4.76 mm
Medium Grained	0.42 mm - 2.0 mm
Fine Grained	0.075 mm - 0.42 mm
Very Fine Grained	<0.075 mm

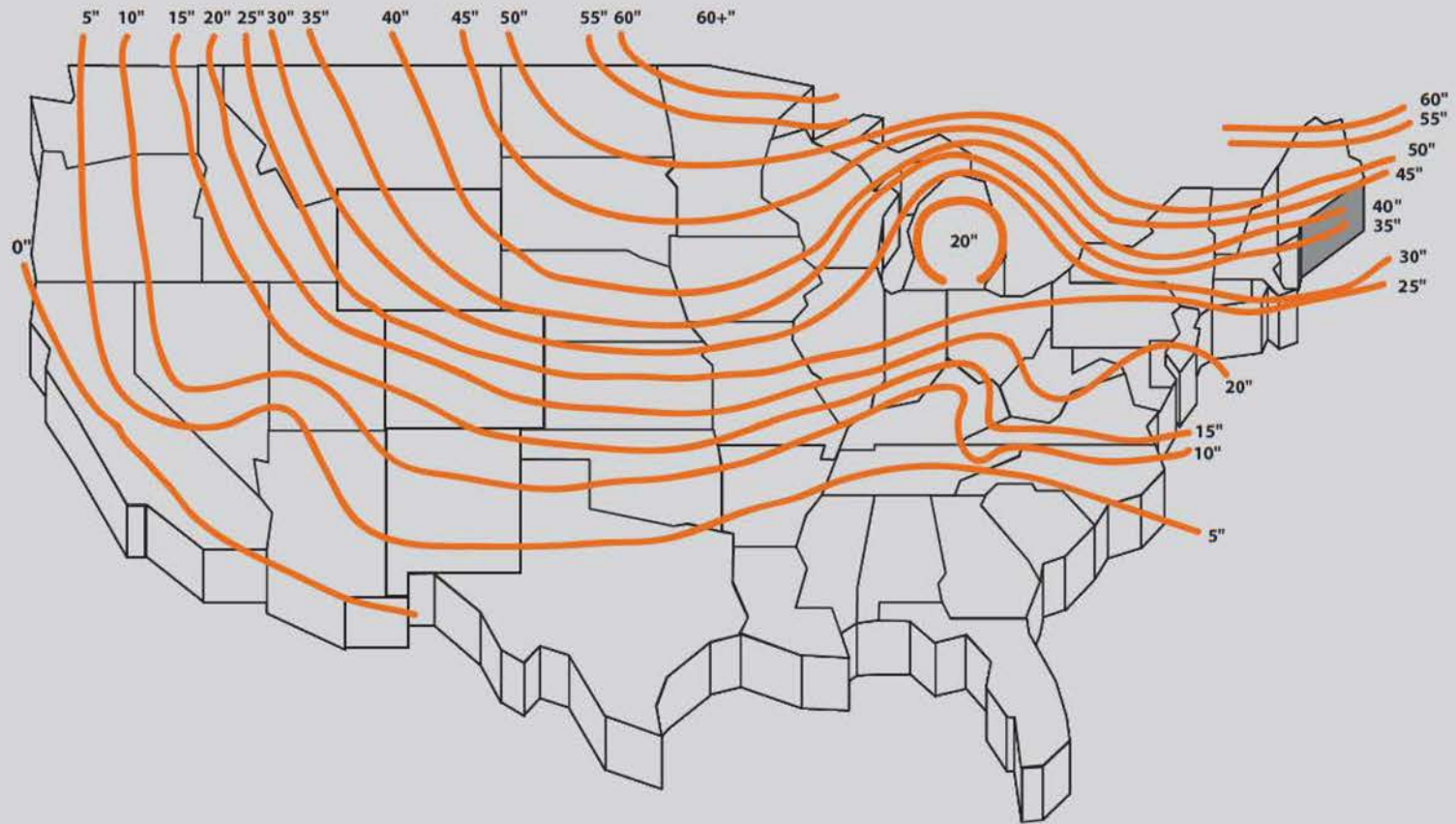
### ROCK QUALITY DESCRIPTION

<u>Rock Mass Description</u>	<u>RQD Value</u>
Excellent	90 - 100
Good	75 - 90
Fair	50 - 75
Poor	25 - 50
Very Poor	Less than 25

### DEGREE OF WEATHERING

Slightly Weathered:	Rock generally fresh, joints stained and discoloration extends into rock up to 25 mm (1 in), open joints may contain clay, core rings under hammer impact.
Weathered:	Rock mass is decomposed 50% or less, significant portions of the rock show discoloration and weathering effects, cores cannot be broken by hand or scraped by knife.
Highly Weathered:	Rock mass is more than 50% decomposed, complete discoloration of rock fabric, core may be extremely broken and gives clunk sound when struck by hammer, may be shaved with a knife.

# AVERAGE FROST DEPTH (Inches)



**EXHIBIT H  
DIRECTIONS TO WCF SITE**



## Driving Directions to Proposed Tower Site

1. Beginning at 1101 Main Street, Benton, KY, head north of Poplar Street (toward E. 11<sup>th</sup> street) and travel approximately 0.5 miles.
2. Turn right onto US-641 N / Main Street and travel approximately 4.0 miles.
3. Make a slight left onto US-641 N / US-68 and travel approximately 7.9 miles.
4. The site is on the left.
5. The site coordinates are
  - a. North 36 deg 57 min 56.81 sec
  - b. West 88 deg 26 min 54.39 sec



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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 GALON L. RILEY and wife, NANCY B. RILEY with a mailing address of 758 Mount Moriah Lane, Benton, KY 42025 ("*Lessor*"); and APC TOWERS IV, LLC, a Delaware limited liability company, with a mailing address of 8601 Six Forks Road, Suite 250, Raleigh, NC 27615 ("*Lessee*").

### RECITALS

WHEREAS, Lessor is the owner of that certain parcel of land located at 7221-7271 US 68, Benton, Marshall County, KY 42025, also known as parcel number 0S-02-00-007.01, 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 eighteen (18) 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 eighteen (18) 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*") of [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 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 (5<sup>th</sup>) 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.** 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.

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.

**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 [REDACTED] 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 policies 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: Nancy Riley  
758 Mount Moriah Lane  
Benton, KY 42025  
**Ref. Site ID: KY-1604 – EV Sharpe**

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, NC 27615  
Attention: Daniel C. Agresta III  
**Ref. Site ID: KY-1604 – EV Sharpe**

Telephone: (919) 926-9838 *(included for information purposes only and not for notices)*  
Facsimile: (919) 890-0788 *(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. Right of First Refusal; Rental Stream Offer.**

- (a) From and after the Effective Date through the expiration or termination of the Term, Lessor grants Lessee a right of first refusal in connection with all requests, proposals or offers from any third party (i) to acquire, lease or obtain an easement (or other right of way) under all or any portion of the Premises or (ii) to acquire the Lessor's interest in this Agreement. Lessor shall provide Lessee written notice (the "**ROFR Notice**") of its receipt of such a request, proposal or offer which Lessor desires to accept. Such ROFR Notice shall describe all material terms of such request, proposal or offer and include a copy of such request, proposal or offer. Lessee will have thirty (30) days to evaluate such request, proposal or offer and notify Lessor in writing (the "**Acceptance Notice**") if it intends to exercise its right to consummate such acquisition, lease or obtaining of easement (or other right of way) or such sale of the Lessor's interest in the Lease pursuant to the terms and conditions set forth in such request, proposal or offer. If Lessee fails to provide Lessor with an Acceptance Notice within such 30-day period, then Lessor may proceed with such sale, lease or grant of easement (or other right of way) or such sale of the Lessor's interest in the Lease to such third party as set forth in the ROFR Notice, provided that if the acquisition, lease or obtaining of easement (or other right of way) or such sale of the Lessor's interest in the Lease set forth in the ROFR Notice is not completed within one hundred eighty (180) days of when Lessee notifies Lessor it does not intend to provide an Acceptance Notice (or, if no such notice is given, one hundred eighty (180) days after the expiration of the aforementioned 30-day period), then Lessor shall not complete such transaction(s) without first providing Lessee an additional ROFR Notice pursuant to the terms of this Section 21(a), whereupon the provisions of this Section 21(a) will again apply. Notwithstanding anything to the contrary contained in this Agreement, in no event will the right of first refusal granted in this section continue beyond the expiration of twenty-one (21) years from the death of the last survivor of the descendants of King George V, the late king of England. [The foregoing clause is being included herein for the purpose of complying with the rule



against perpetuities, to the extent such rule is in effect in the state in which the Property is located and preserving the validity of the right of first refusal granted in this Section 21(a).]

- (b) If at any time after the date of this Agreement, Lessor receives a bona fide written offer from a third party seeking an assignment or transfer of Rent payments associated with this Agreement ("**Rental Stream Offer**") which Lessor desires to accept, Lessor will furnish Lessee with a copy of the Rental Stream Offer. Within thirty (30) days after Lessee receives a copy of the Rental Stream Offer, Lessee may agree in writing to match the terms of the Rental Stream Offer. If Lessee chooses not to exercise this right or fails to provide written notice to Lessor within such 30-day period, Lessor may assign the right to receive the Rent payments pursuant to the Rental Stream Offer, subject to the terms of this Agreement. If Lessor attempts to assign or transfer Rent payments without complying with this section, the assignment or transfer shall be void. 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 until Lessor complies with this section.

**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:**

GALON L. RILEY

By: Galon L. Riley  
Name: By Nancy Riley POA  
Date: 7-21-2023

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**

STATE OF Kentucky  
COUNTY OF Marshall

On the 21 day of July in the year 2023 before me, the undersigned, personally appeared Nancy Riley, POA for Galon L. Riley, 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 her/his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Brittany Story  
\_\_\_\_\_, Notary Public

My Commission Expires: Aug 6, 2025



**LESSOR:**

NANCY B. RILEY

By: Nancy B. Riley  
Name: Nancy B. Riley  
Date: 7-21-2023

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**

STATE OF Kentucky  
COUNTY OF Marshall

On the 21 day of July in the year 2023 before me, the undersigned, personally appeared Nancy B. Riley, 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 her/his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Brittany Story Notary Public  
My Commission Expires: Aug 6, 2025



**LESSEE:**

APC TOWERS IV, LLC,

a Delaware limited liability company

By: 

Name: Daniel C. Agresta III

Title: President & CEO

Date: 10-23-2023

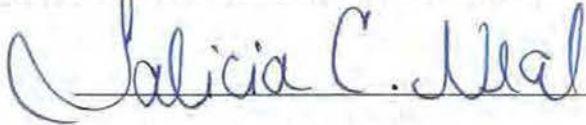
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

**LESSEE ACKNOWLEDGMENT**

STATE OF NORTH CAROLINA

COUNTY OF WAKE

On the 23<sup>rd</sup> day of October in the year 2023 before me, the undersigned, personally appeared Daniel C. Agresta III, President & 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 her/his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.



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 FOLLOWING DESCRIBED LAND LYING IN MARSHALL COUNTY, KENTUCKY:

ALL THAT PART OF THE DR. FRANK FARM LYING ON THE SOUTH SIDE OF THE BENTON AND PADUCAH GRAVEL ROAD, (NEAR THE TOWN OF SHARPE, KY.) BEING 46.1 ACRES, MORE OR LESS, AND BEING THE EASTERN ONE-THIRD OF THE TRACE OF 138.3 ACRES, MORE OR LESS, WHICH TRACT WAS CONVEYED BY DEED FROM GROGAN AND OTHERS DATED MARCH 27TH, 1919 AND RECORDED IN DEED BOOK 45, PAGE 46, MARSHALL COUNTY COURT CLERK'S OFFICE. SAID TRACT HEREIN CONVEYED IS BOUNDED AS FOLLOWS: ON THE EAST J.M. PACE (NOW DRS. VERNON AND ERRETT PACE); ON THE SOUTH W.H. GORDON; ON THE WEST LAND NOW OCCUPIED BY T. B. WILLIAMS (NOW MCWATERS AND MEDLEY) AND ON THE NORTH BY THE PADUCAH AND BENTON ROAD, AND BEING IN ALL RESPECTS THE EASTERN ONE-THIRD OF THE SAID 138.3 ACRE TRACT (WITH EXCEPTION BELOW) AS CONVEYED TO THE GRANTOR FRED F. TITSWORTH BY DEED DATED NOVEMBER 22, 1926, OF RECORD IN DEED BOOK 49, PAGE 401, MARSHALL COUNTY COURT CLERK'S OFFICE.

EXCEPT; A TWO-ACRE TRACT CONVEYED FROM THE NORTHEAST CORNER OF THE ABOVE MENTIONED TRACT BY DEED FROM THE GRANTORS FRED F. TITSWORTH ET UX TO DORSE O'DELL ET UX BY DEED DATED JUNE 1, 1946, OF RECORD IN DEED BOOK 77, PAGE 85, MARSHALL COUNTY COURT CLERK'S OFFICE. SAID TWO ACRE TRACT IS MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT A POINT IN THE SOUTH LINE OF THE BENTON AND PADUCAH HIGHWAY, WHICH IS THE NORTH EAST CORNER OF THE TRACT HEREIN CONVEYED; RUNNING THENCE WEST WITH THE HIGHWAY FOR A DISTANCE OF 155 FEET TO AN IRON STAKE; THENCE SOUTH WITH THE LINE OF THE GRANTOR AND A DISTANCE OF 562 FEET TO AN IRON STAKE; THENCE EAST WITH GRANTOR'S LINE 155 FEET TO AN IRON STAKE; THENCE EAST WITH GRANTOR'S LINE 155 FEET TO AN IRON STAKE WHICH IS THE LINE OF J.M. AND TENNIE PACE; THENCE NORTH WITH PACE'S LINE 562 FEET BACK TO THE PLACE OF BEGINNING.

LESS AND EXCEPT:

TRACT I: APPROXIMATELY 3/10 OF AN ACRE LOCATED ON THE SOUTH SIDE OF HIGHWAY 68 AND MORE PARTICULARLY DESCRIBED AS:  
BEGINNING AT A POINT WHICH IS THE NORTHWEST CORNER OF THE GRANTOR'S FARM AND THE NORTHEAST CORNER OF THE JOHN CROWLEY FARM WHICH BEGINNING POINT IS LOCATED IN THE SOUTH RIGHT-OF-WAY OF HIGHWAY 68; THENCE, IN A SOUTHERLY DIRECTION AND WITH THE EAST LINE OF THE CROWLEY FARM A DISTANCE OF 175 FEET; THENCE, IN AN EASTERLY DIRECTION A DISTANCE OF 75 FEET; THENCE, IN A NORTHERLY DIRECTION A DISTANCE OF 175 FEET TO A SOUTH RIGHT-OF-WAY OF HIGHWAY 68; THENCE, IN A WESTERLY DIRECTION AND WITH THE SOUTH RIGHT-OF-WAY OF HIGHWAY 68 A DISTANCE OF 85 FEET TO THE POINT OF BEGINNING.

TRACT II: A 0.12 ACRE TRACT OF LAND AS SURVEYED BY CARL L. HOLT OF ROUTE 6, BENTON, KENTUCKY, IN FEBRUARY, 1993, AND BEING GENERALLY LOCATED ON THE SOUTH SIDE OF U.S. HIGHWAY 68, APPROXIMATELY ONE MILE EAST OF THE SHARPE COMMUNITY IN MARSHALL COUNTY, KENTUCKY, AND MORE PARTICULARLY DESCRIBED AS:

BEGINNING AT A HALF INCH REBAR IRON PIN SET 30 FEET SOUTH OF THE CENTERLINE OF HIGHWAY 68, SAID IRON PIN IS SET IN THE NORTHEAST CORNER OF THE ORIGINAL POSSUM TROT--SHARPE FIRE DEPARTMENT LOT AND SET APPROXIMATELY 0.65 MILE WEST OF THE INTERSECTION OF THE CENTERLINE OF U.S. HIGHWAY 68 WITH THE CENTERLINE OF KENTUCKY HIGHWAY 1610; THENCE, SOUTH 1 DEGREE 33 MINUTES EAST, 175.00 FEET ALONG THE EAST SIDE OF THE ORIGINAL FIRE DEPARTMENT'S LOT TO AN IRON PIN; THENCE, SOUTH 84 DEGREES 4 SECONDS EAST, 20.00 FEET ALONG A NEW DIVISION LINE TO AN IRON PIN; THENCE, NORTH 5 DEGREES 1 SECOND EAST, 173.53 FEET ALONG A NEW DIVISION LINE TO AN IRON PIN; THENCE NORTH 84 DEGREES 3 SECONDS WEST, 40.00 FEET ALONG THE SOUTH SIDE OF HIGHWAY 68 TO THE POINT OF BEGINNING.

Tax ID: 0S-02-00-007.01



## 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.

#### 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.

**FLOOD HAZARD STATEMENT:**

THIS COMMUNICATIONS SITE (THE SUBJECT SITE AS SHOWN) IS NOT LOCATED WITHIN THE LIMITS OF A DESIGNATED 100 YEAR FLOOD ZONE PER FEMA/FIRM MAP COMMUNITY PANEL NUMBER 21157C 0555 E, MARSHALL COUNTY, KENTUCKY, EFFECTIVE DATE JUNE 2, 2011.

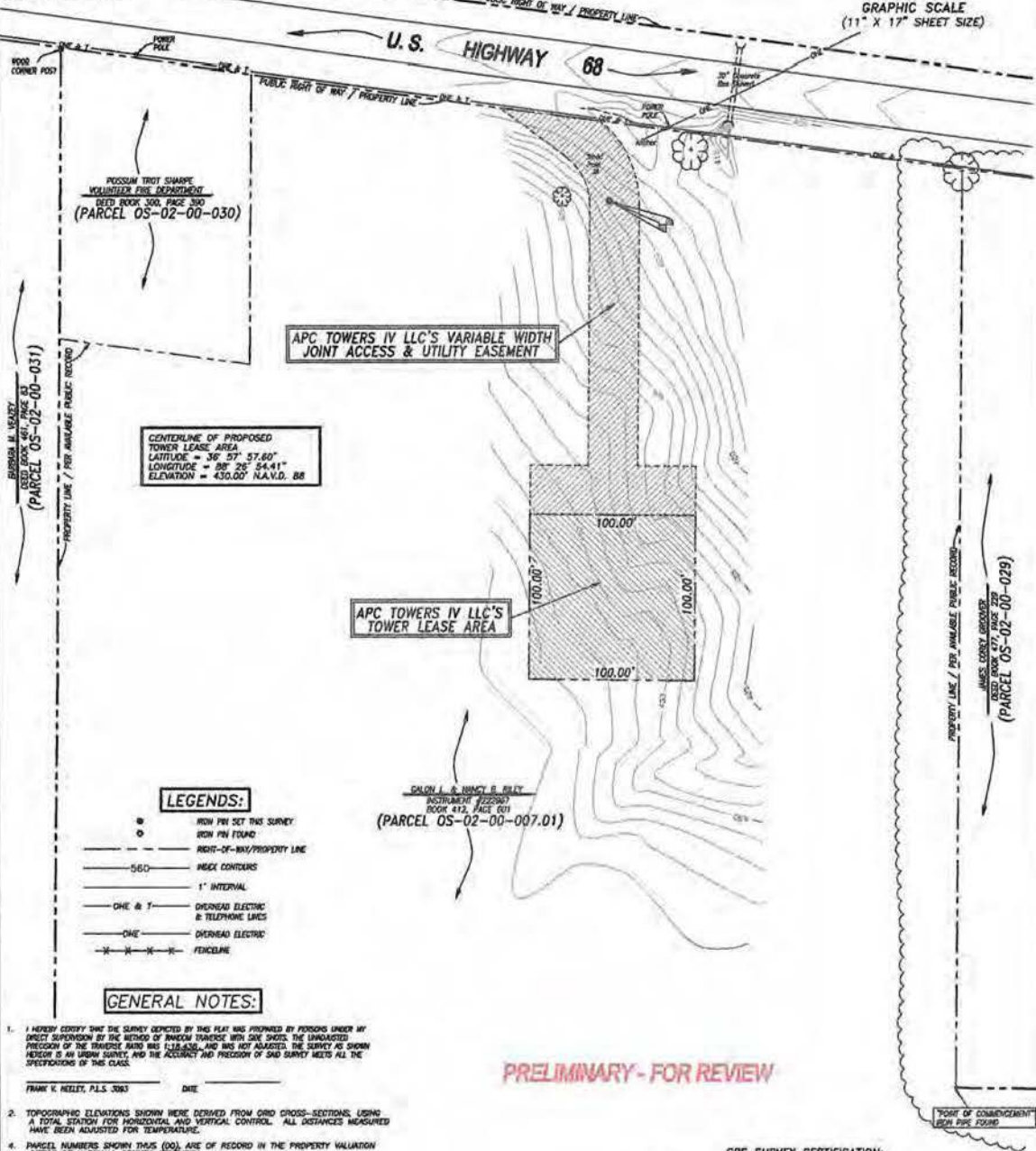
KY SPC (SOUTH ZONE)  
NAD 83 GRID NORTH



Scale 1" = 60'  
GRAPHIC SCALE  
(11" X 17" SHEET SIZE)

**PROJECT BENCHMARK**

TBM ELEVATION DATUM IS BASED UPON GPS SURVEY METHODS AND PROCEDURES.  
TOP OF "CAPPED" IRON PIN SET THIS SURVEY  
ELEVATION = 420.81' N.A.V.D. (SEE PLAN FOR LOCATION)



**LEGENDS:**

- IRON PIN SET THIS SURVEY
- IRON PIN FOUND
- RIGHT-OF-WAY/PROPERTY LINE
- 500' INSECT CONTROLS
- 1' INTERVAL
- ONE & T OVERHEAD ELECTRIC & TELEPHONE LINES
- ONE OVERHEAD ELECTRIC
- FENCELINE

**GENERAL NOTES:**

1. I HEREBY CERTIFY THAT THE SURVEY DEPICTED BY THIS PLAN WAS PREPARED BY PERSONS UNDER MY DIRECT SUPERVISION BY THE METHOD OF BRANCH TRAILERS WITH ONE SHEET. THE UNADJUSTED PRECISION OF THE TRAVERSE WAS 1:18,430, AND HAS NOT ADJUSTED. THE SURVEY AS SHOWN HERETOBY IS AN OPEN SURVEY, AND THE ACCURACY AND PRECISION OF SAID SURVEY MEETS ALL THE REQUIREMENTS OF THIS CLASS.
- FRANK V. HEELEY, P.L.S. 3083      DATE \_\_\_\_\_
2. TOPOGRAPHIC ELEVATIONS SHOWN WERE DERIVED FROM GRID CROSS-SECTIONS, USING A TOTAL STATION FOR HORIZONTAL AND VERTICAL CONTROL. ALL DISTANCES MEASURED HAVE BEEN ADJUSTED FOR TEMPERATURE.
4. PARCEL NUMBERS SHOWN THIS (00), ARE OF RECORD IN THE PROPERTY VALUATION OFFICE OF MARSHALL COUNTY, KENTUCKY.
5. BEARINGS SHOWN ARE REFERENCED FROM GLOBALLY POSITIONED SATELLITE MONUMENTS AS ESTABLISHED FOR THIS SURVEY.
6. PROPERTY OWNERS:  
CAYLON L. & NANCY B. RILEY  
758 MOUNT MORROW ROAD  
BENTON, KY 42025
7. IRON PIN SET ARE 18" MINIMUM LENGTH REINFORCING STEEL BARS WITH A PLASTIC CAPPED ENDPOSED 10' PLUS 8"0003", UNLESS ROCK OR OTHER LIKE MATERIAL IS ENCOUNTERED.
8. DATE OF FIELD SURVEY: TUESDAY, AUGUST 15, 2023.
9. NOT VALID WITHOUT THE ORIGINAL SIGNATURE OF THE PROFESSIONAL LICENSED SURVEYOR.

**PRELIMINARY - FOR REVIEW**

**GPS SURVEY CERTIFICATION:**

1. THIS SURVEY WAS PERFORMED USING THE POSITIONAL DATA.
  2. EQUIPMENT USED WAS A SOKKIA GR12, SERIAL FREQUENCY, BASE SERIAL # 1447-10265, REVER SERIAL # 1447-10261.
  3. THE GRID COORDINATES OF THE FIXED STATION(S) SHOWN WERE OBTAINED USING A WGS NETWORK OF THE CORPS STATIONS REFERENCING WAD 83 (2011), (EPOCH 2010), GEOID 12B.
  4. THE RELATIVE POSITIONAL ACCURACY OF THE GPS VECTORS DOES NOT EXCEED 0.1% & 0.01" X.
  5. BEARINGS ARE RELATIVE TO KENTUCKY (SOUTH ZONE) STATE PLANE. ALL REFERENCES TO GRID BEARINGS AND KENTUCKY STATE PLANE (SOUTH ZONE) COORDINATES AS INDICATED ARE UNADJUSTED, AND 83 SURVEY FEET, WITH CONVERSIONS MADE UP - 0.80718111 SOURCES, A SCALE FACTOR OF 0.9997918, AND A CORNER FACTOR OF 0.9997918 BEARDS.
- PLOT DATE: SEPTEMBER 3, 2023

PROJECT NUMBER:  
223,086,20

SHEET NUMBER:  
1 OF 2

APC TOWERS IV LLC SITE SURVEY: KENTUCKY  
"EV SHARPE" TOWER SITE  
LOCATED IN: MARSHALL COUNTY, KENTUCKY  
TOWER LEASE AREA SURVEY  
PREPARED FOR: APC TOWERS IV LLC  
APC TOWERS IV LLC SITE NUMBER: KY-1604

SHARONDALE  
SURVEYING  
INC.  
161 MARTIN ROAD  
BOW AQUA, TN 37025  
(615) 513-0032  
E-Mail: Sharndo@bellouth.net



## EXHIBIT C

## SITE PLAN

To be verified by survey prior to Exercise of Option per Paragraph 1(c).

### 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.

**FLOOD HAZARD STATEMENT:**

THIS COMMUNICATIONS SITE (THE SUBJECT SITE AS SHOWN) IS NOT LOCATED WITHIN THE LIMITS OF A DESIGNATED 100 YEAR FLOOD ZONE PER FEMA/FIRM MAP COMMUNITY PANEL NUMBER 21157C 0005 E, MARSHALL COUNTY, KENTUCKY, EFFECTIVE DATE JUNE 2, 2011.

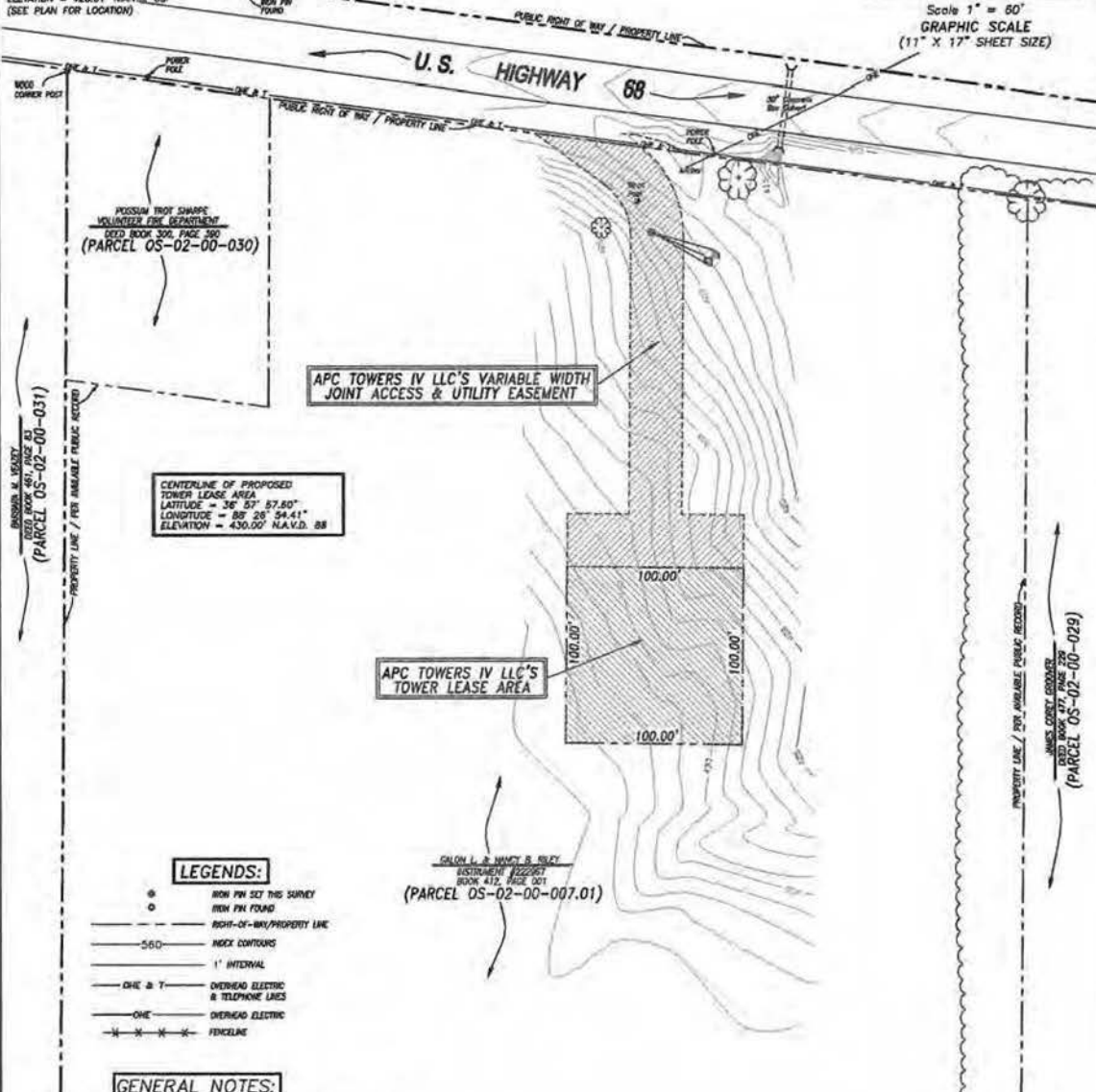
**PROJECT BENCHMARK**

TBM ELEVATION DATUM IS BASED UPON GPS SURVEY METHODS AND PROCEDURES.  
TOP OF "CAPPED" IRON PIN SET THIS SURVEY (ELEVATION = 420.61' N.A.V.D. 88)  
(SEE PLAN FOR LOCATION)

KY SPC (SOUTH ZONE)  
NAD 83 GRID NORTH



Scale 1" = 60'  
GRAPHIC SCALE  
(11" X 17" SHEET SIZE)



**LEGENDS:**

- ⊙ IRON PIN SET THIS SURVEY
- IRON PIN FOUND
- RIGHT-OF-WAY/PROPERTY LINE
- 56.0' INDEX CONTOURS
- 1' INTERVAL
- ONE & T OVERHEAD ELECTRIC & TELEPHONE LINES
- ONE OVERHEAD ELECTRIC
- FENCELINE

**GENERAL NOTES:**

1. I HEREBY CERTIFY THAT THE SURVEY DEPICTED BY THIS PLAN WAS PREPARED BY PERSONS UNDER MY DIRECT SUPERVISION BY THE METHOD OF RANDOM TOWERING WITH SIDE SHOTS, THE UNADJUSTED PRECISION OF THE TOWERING WAS 1:15,000, AND WAS NOT ADJUSTED. THE SURVEY AS SHOWN HEREIN IS AN EMBLEM SURVEY, AND THE ACCURACY AND PRECISION OF SAID SURVEY MEETS ALL THE SPECIFICATIONS OF THIS CLASS.
- FRANK K. HEBLEY, P.L.S. 3093      DATE: \_\_\_\_\_
2. TOPOGRAPHIC ELEVATIONS SHOWN WERE DERIVED FROM GRID CROSS-SECTIONS, USING A TOTAL STATION FOR HORIZONTAL AND VERTICAL CONTROL. ALL DISTANCES MEASURED HAVE BEEN ADJUSTED FOR TEMPERATURE.
3. PARCEL NUMBERS SHOWN THUS (00), ARE OF RECORD BY THE PROPERTY VALUATION OFFICE OF MARSHALL COUNTY, KENTUCKY.
4. BEARINGS SHOWN ARE REFERENCED FROM GLOBALLY POSITIONED SATELLITE MONUMENTS AS ESTABLISHED FOR THIS SURVEY.
5. PROPERTY OWNERS:  
GAYLON L. & NANCY B. RILEY  
726 MOONEY MICHAM ROAD  
BENTON, KY 42025
6. IRON PINS SET ARE 18" MINIMUM LENGTH REINFORCING STEEL BARS WITH A PLASTIC CAPPED ENDS "BY FLS #0083". UNLESS ROCK OR OTHER LIKE MATERIAL IS ENCOUNTERED.
7. DATE OF FIELD SURVEY: TUESDAY, AUGUST 15, 2023.
8. NOT VALID WITHOUT THE ORIGINAL SIGNATURE OF THE PROFESSIONAL LICENSED SURVEYOR.

**PRELIMINARY - FOR REVIEW**

**GPS SURVEY CERTIFICATION:**

1. THIS SURVEY WAS PERFORMED USING RTK POSITIONAL DATA.
  2. EQUIPMENT USED WAS A SONYO G10, REAL FREQUENCY, BASE SERIAL # 1447-10585, ROVER SERIAL # 1467-10290.
  3. THE GRID COORDINATES OF THE POINTS STATIONED WERE OBTAINED USING A WGS NETWORK OF THE GOPTS STATIONS REFERENCING AND 83 (2011), (EPOCH 2010), GRID 14B.
  4. THE RELATIVE POSITIONAL ACCURACY OF THE GPS VECTORS DOES NOT EXCEED 0.17" & 0.01" X.
  5. BEARINGS ARE RELATIVE TO KENTUCKY (SOUTH ZONE) STATE PLANE. ALL REFERENCES TO GRID BEARINGS AND KENTUCKY STATE PLANE (SOUTH ZONE) COORDINATES AS INDICATED ARE UNADJUSTED AND IN SURVEY FEET, WITH CONVERSIONS MADE BY - 0.8718111 DEGREES, A SCALE FACTOR OF 0.9999981 DEGREES, AND A CORRECTION FACTOR OF 0.9999978 DEGREES.
- PLOT DATE: SEPTEMBER 3, 2023

SHEET NUMBER:  
**1 OF 2**

APC TOWERS IV LLC SITE SURVEY: KENTUCKY  
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SHARONDALE  
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161 MARTIN ROAD  
BON AUA, TN 37025  
(615) 513-0032  
E-Mail: Sharonda@bellsouth.net





**EXHIBIT J  
NOTIFICATION LIST  
PVA RECORDS  
PROOF OF NOTICE**

**EV Sharpe – Notice List**

Riley Nancy B  
758 Mt Moriah Rd  
Benton, KY 42025

Revocable Trust of Barbara M Veazey  
557 Green Oaks Ln  
Benton, KY 42025

Fields Donald G and Nancy  
1710 Pickering Ln  
Little Rock, AR 72211

Groover James Cory  
7191 US Highway 68 W  
Benton, KY 42025

Riley Kevin D and Debbie S  
7129 US Highway 68 W  
Benton, KY 42025

Possum Trot Fire District  
7297 US Highway 68 W  
Benton, KY 42025

Riley James H  
98 Peck Cemetery Ln  
Calvert City, KY 42029

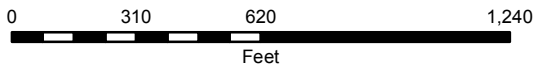
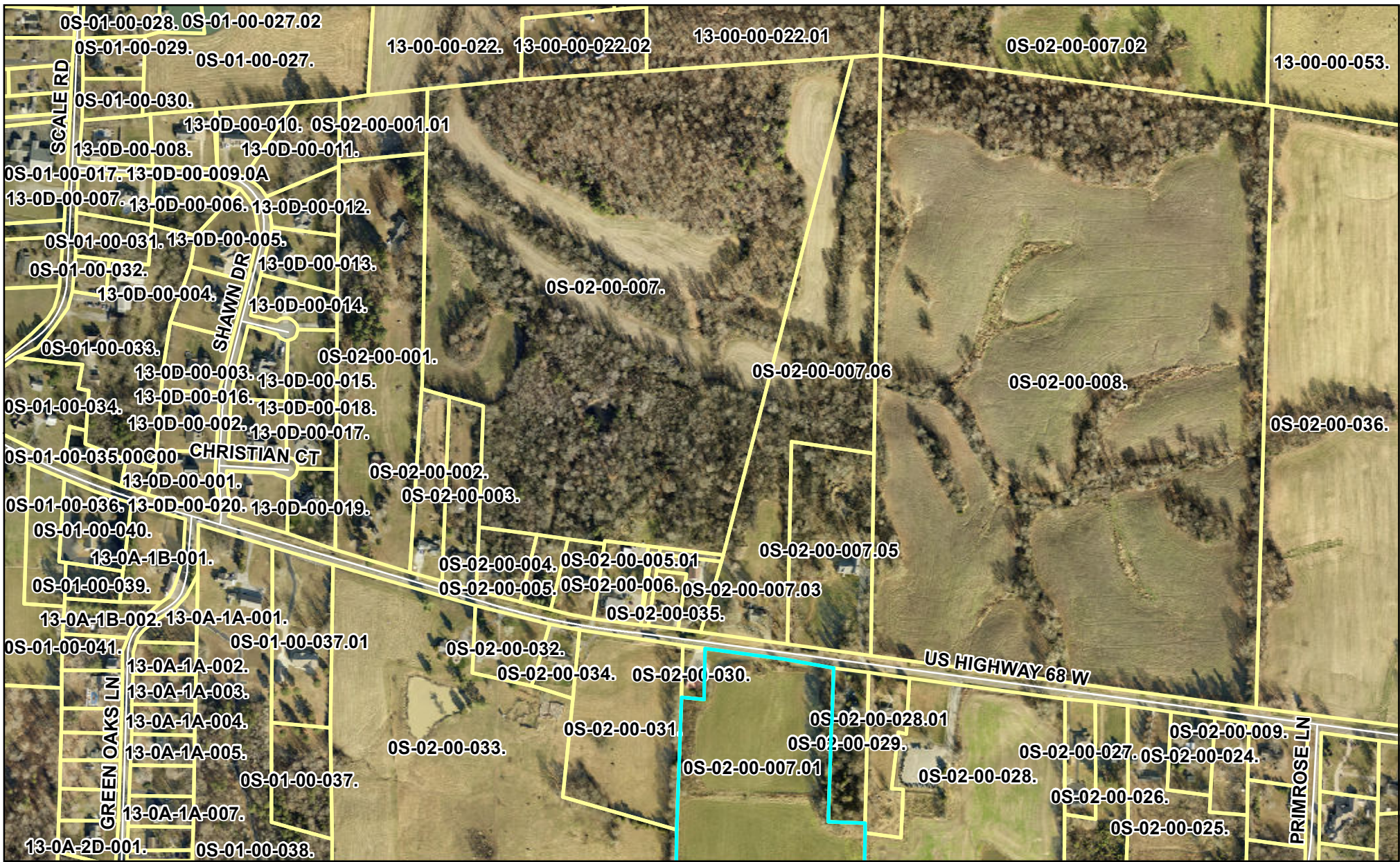
Goss John and Traci  
7190 US Highway 68 W  
Benton, KY 42025

Caldwell Deanna Renee  
7260 US Highway 68 W  
Benton, KY 42025

Seay Gary E  
7324 US Highway 68 W  
Benton, KY 42025







**-NOTICE-**

The information found on this document is believed to be accurate and every attempt has been made to ensure so; however, the Marshall County PVA makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability of this data. The PVA does not assume any liability associated with the use or misuse of this data.



1 inch = 478 feet



# MARSHALL COUNTY OFFICE OF PROPERTY VALUATION

Map Number: 05-02-00-007.01

Account: 892670

Tax District: 007

Property Class: F

Deed: 412/1

Tax Year: 2025



### Ownership \*

%	Name
100%	JOINTLY WITH SURVIVORSHIP RILEY, NANCY B
0%	LIFE ESTATE RILEY, LAKE RILEY, LEEODA

### Assessment Data

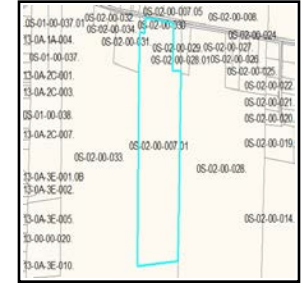
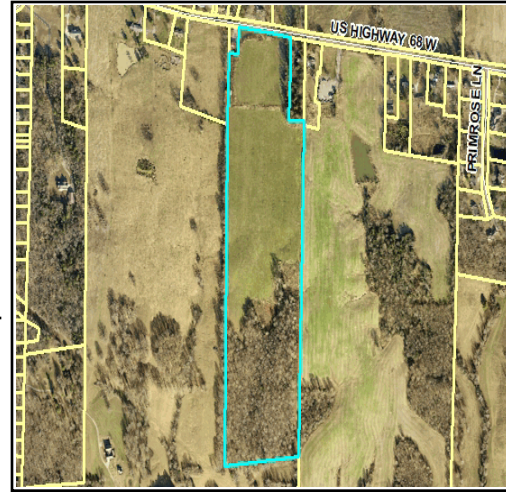
Land Value	168,000
Improvements	0
Fair Cash Value	\$168,000
Ag Exemption	149,087
Ag Value	18,913
Exemption Amount	0
Total Taxable	\$18,913

### Mailing Information

RILEY NANCY B  
758 MT MORIAH RD  
BENTON, KY 42025

### Sales Information

Deed	Sale Date	Sale Price
412/1	04/18/2012	\$40,000
404/593	04/18/2011	\$40,000
396/601	03/12/2010	\$40,000
335/268	06/17/1998	\$0



Total Taxable on Account	\$18,913
No of Properties on Account	1

Inspection Date	01/01/2025
Acreage	41.94

MARSHALL COUNTY OFFICE OF PROPERTY VALUATION

Map Number: 05-02-00-007.06 Account: 1067760 Tax District: 007 Property Class: F Deed: 486/649 Tax Year: 2025

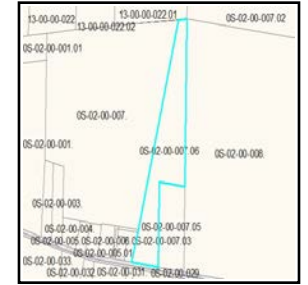


Ownership

%	Name
100%	FEE SIMPLE CALDWELL, DEANNA RENE

Assessment Data

Land Value	50,000
Improvements	136,000
Fair Cash Value	\$186,000
Ag Exemption	44,750
Ag Value	5,250
Exemption Amount	0
Total Taxable	\$141,250



Mailing Information

CALDWELL DEANNA RENE  
7260 US HIGHWAY 68 W  
BENTON, KY 42025

Sales Information

Deed	Sale Date	Sale Price
486/649	10/04/2018	\$0

Total Taxable on Account \$371,250  
No of Properties on Account 3

Inspection Date 01/01/2025  
Acreage 12.34

Site Built Home

Improvement Value \$136,000

Style ONE STORY

Type SINGLE-FAMILY RESIDENCE

Year Built 1953

First Floor 1,872 Second Floor 0 Third Floor 0

# Of Units 1 Total Rooms UNKNOWN Full Baths 1

Bedrooms 3 Half Story 0 Half Baths 0

Basement Area 1,440 % Finished UNKNOWN

Roofing

100% COMPOSITION SHINGLE

Advanced Heating

100% FORCED AIR FURNACE

Advanced Cooling

100% NONE

Porches

SLAB PORCH WITH ROOF

Property Address

7260 US HIGHWAY 68 W, BENTON 42025

Utilities

- No Utilities
- Unknown
- Water
- Electric
- Sewer
- Natural Gas

Quality GOOD

Flood Hazard NONE

Attached Garage

NONE

Driveway

GRAVEL

Exterior Walls

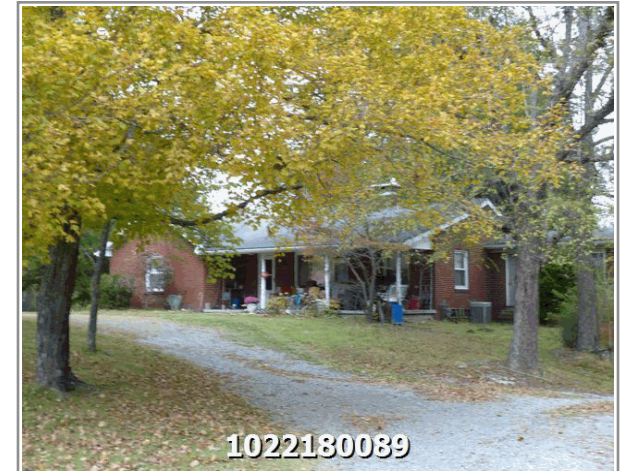
100% BRICK VENEER

Foundation

100% CONCRETE BLOCK

Fireplace

SINGLE 1 STORY FIREPLACE



MARSHALL COUNTY OFFICE OF PROPERTY VALUATION

Map Number: 05-02-00-007.05 Account: 1026250 Tax District: 007 Property Class: R Deed: 466/68 Tax Year: 2025



Ownership

%	Name
100%	JOINTLY WITH SURVIVORSHIP GOSS, JOHN GOSS, TRACI

Assessment Data

Land Value	50,000
Improvements	310,000
Fair Cash Value	\$360,000
Ag Exemption	0
Ag Value	0
Exemption Amount	0
Total Taxable	\$360,000



Mailing Information

GOSS JOHN AND TRACI  
7190 US HIGHWAY 68 W  
BENTON, KY 42025

Sales Information

Deed	Sale Date	Sale Price
466/68	01/17/2019	\$47,500
464/415	11/09/2018	\$0

Total Taxable on Account \$360,000  
No of Properties on Account 1

Inspection Date 01/01/2025  
Acreage 5

Site Built Home

Improvement Value \$310,000

Style ONE STORY

Type SINGLE-FAMILY RESIDENCE

Year Built 2020

First Floor 2,596 Second Floor 0 Third Floor 0

# Of Units 1 Total Rooms UNKNOWN Full Baths UNKNOWN

Bedrooms UNKNOWN Half Story 0 Half Baths UNKNOWN

Basement Area NONE % Finished N/A

Roofing

100% COMPOSITION SHINGLE

Heating / Cooling

HVAC

Porches

RAISED SLAB PORCH WITH ROOF

RAISED SLAB PORCH

Property Address

7190 US HIGHWAY 68 W, BENTON 42025

Utilities

- No Utilities  Unknown  Water
- Electric  Sewer  Natural Gas

Quality GOOD

Flood Hazard UNKNOWN

Attached Garage

752 ATTACHED GARAGE

Driveway

GRAVEL

Exterior Walls

95% SIDING, VINYL

5% BRICK VENEER

Foundation

100% CONCRETE BLOCK

Fireplace

NONE





# MARSHALL COUNTY OFFICE OF PROPERTY VALUATION

Map Number: 05-02-00-008.

Account: 165070

Tax District: 007

Property Class: F

Deed: 322/521

Tax Year: 2025



### Ownership

%	Name
100%	FEE SIMPLE RILEY, JAMES H

### Assessment Data

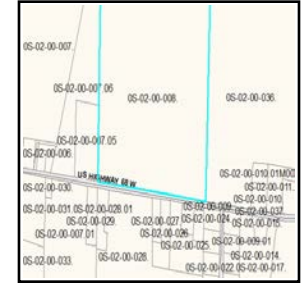
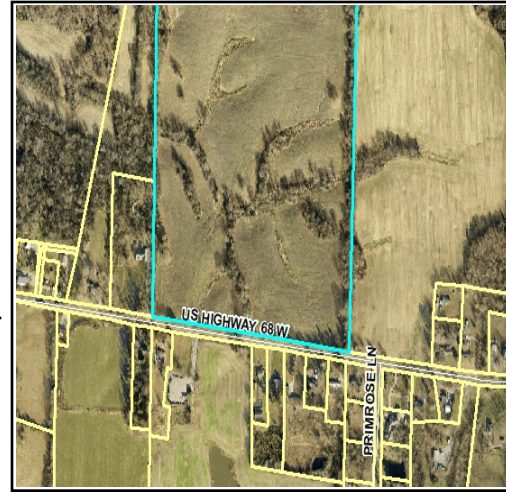
Land Value	278,000
Improvements	0
Fair Cash Value	\$278,000
Ag Exemption	249,759
Ag Value	28,241
Exemption Amount	0
Total Taxable	\$28,241

### Mailing Information

RILEY JAMES H  
 98 PECK CEMETERY LN  
 CALVERT CITY, KY 42029

### Sales Information

Deed	Sale Date	Sale Price
322/521	06/08/1998	\$0



Total Taxable on Account	\$28,241
No of Properties on Account	1

Inspection Date	01/01/2025
Acreage	69.53



MARSHALL COUNTY OFFICE OF PROPERTY VALUATION

Map Number: 05-02-00-029. Account: 1047020 Tax District: 007 Property Class: R Deed: 477/229 Tax Year: 2025



Ownership

%	Name
100%	FEE SIMPLE GROOVER, JAMES CORY

Assessment Data

Land Value	9,000
Improvements	69,250
Fair Cash Value	\$78,250
Ag Exemption	0
Ag Value	0
Exemption Amount	0
Total Taxable	\$78,250



Mailing Information

GROOVER JAMES CORY  
7191 US HIGHWAY 68 W  
BENTON, KY 42025

Sales Information

Deed	Sale Date	Sale Price
477/229	05/27/2020	\$78,250
329/439	10/30/2001	\$72,500

Total Taxable on Account \$78,250  
No of Properties on Account 1

Inspection Date 01/01/2025  
Acreage 1.63

Site Built Home

Improvement Value \$68,250

Style ONE STORY

Type SINGLE-FAMILY RESIDENCE

Year Built UNKNOWN

First Floor 1,214 Second Floor 0 Third Floor 0

# Of Units 1 Total Rooms UNKNOWN Full Baths 1

Bedrooms 2 Half Story 0 Half Baths 0

Basement Area NONE % Finished N/A

Roofing

100% COMPOSITION SHINGLE

Advanced Heating

100% FORCED AIR FURNACE

Advanced Cooling

100% NONE

Porches

RAISED SLAB PORCH

Property Address

7191 US HIGHWAY 68 W, BENTON 42025

Utilities

- No Utilities  Unknown  Water
- Electric  Sewer  Natural Gas

Quality GOOD

Flood Hazard NONE

Attached Garage

NONE

Driveway

GRAVEL

Exterior Walls

100% SIDING, WOOD

Foundation

100% CONCRETE BLOCK

Fireplace

NONE



**Storage**

Improvement Value **\$1,000**

Total Area **216**

Year Built **UNKNOWN**

Roofing

**100% COMPOSITION SHINGLE**

Exterior Walls

**100% SIDING, WOOD**

Property Address

**NONE,**

Utilities

- No Utilities     Unknown     Water
- Electric     Sewer     Natural Gas

Quality **AVERAGE**

Flood Hazard **NONE**

Driveway

**GRAVEL**

Foundation

**100% UNKNOWN**



MARSHALL COUNTY OFFICE OF PROPERTY VALUATION

Map Number: 05-02-00-028.01 Account: 879630 Tax District: 007 Property Class: R Deed: 406/694 Tax Year: 2025

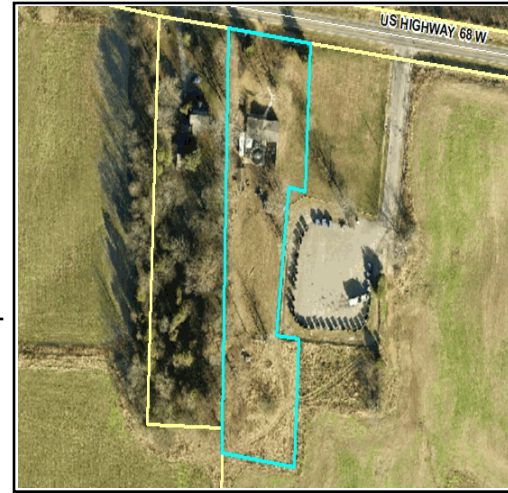


Ownership

%	Name
100%	JOINTLY WITH SURVIVORSHIP RILEY, DEBBIE S RILEY, KEVIN D

Assessment Data

Land Value	17,000
Improvements	26,000
Fair Cash Value	\$43,000
Ag Exemption	0
Ag Value	0
Exemption Amount	0
Total Taxable	\$43,000



Mailing Information

RILEY KEVIN D AND DEBBIE S  
7129 US HIGHWAY 68 W  
BENTON, KY 42025

Sales Information

Deed	Sale Date	Sale Price
406/694	08/02/2011	\$17,000

Total Taxable on Account \$43,000  
No of Properties on Account 1

Inspection Date 01/01/2025  
Acreage 1.66

Mobile Home

Improvement Value \$25,000

Manufacturer **SKYLINE CORP**  
 Trade Name **SOUTH RIDGE**  
 Year Built **1980** Length **60** Width **28**  
 First Floor **1,680** Second Floor **0** Third Floor **0**  
 Half Story **0** Total Rooms **UNKNOWN** # Of Units **1**  
 Bedrooms **3** Full Baths **2** Half Baths **0**  
 Basement Area **NONE** % Finished **N/A**

Utilities  
 No Utilities  Unknown  Water  
 Electric  Sewer  Natural Gas  
 Trailer Park **NONE**  
 Quality **GOOD** Lot No **NONE**  
 Flood Hazard **NONE**  
 Attached Garage **NONE**

Porches **NONE**

Driveway **GRAVEL**

Heating / Cooling **HVAC**

Fireplace **SINGLE 1 STORY FIREPLACE**

Roofing **100% COMPOSITION SHINGLE**

Exterior Walls **100% ALUMINUM LAP**

Property Address **7129 US HIGHWAY 68 W, BENTON 42025**

Foundation **100% NON PERMANENT**



**Storage**

Improvement Value **\$1,000**

Total Area **224**

Year Built **UNKNOWN**

Roofing

**100% COMPOSITION SHINGLE**

Exterior Walls

**100% UNKNOWN**

Property Address

**NONE,**

Utilities

- No Utilities  Unknown  Water
- Electric  Sewer  Natural Gas

Quality **AVERAGE**

Flood Hazard **NONE**

Driveway

**UNKNOWN**

Foundation

**100% UNKNOWN**



**1029180001**



# MARSHALL COUNTY OFFICE OF PROPERTY VALUATION

Map Number: 05-02-00-028.

Account: 929730

Tax District: 007

Property Class: F

Deed: 426/546

Tax Year: 2025



### Ownership

%	Name
100%	JOINTLY WITH SURVIVORSHIP FIELDS, DONALD FIELDS, NANCY CAROLYN

### Assessment Data

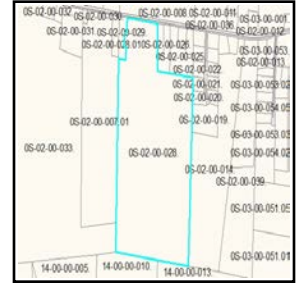
Land Value	355,000
Improvements	0
Fair Cash Value	\$355,000
Ag Exemption	322,661
Ag Value	32,339
Exemption Amount	0
Total Taxable	\$32,339

### Mailing Information

FIELDS DONALD G AND NANCY  
1710 PICKERING LN  
LITTLE ROCK, AR 72211

### Sales Information

Deed	Sale Date	Sale Price
426/546	03/25/2014	\$280,000
360/269	08/02/2005	\$361,120
320/163	07/22/2000	\$362,000
255/629	04/03/1992	\$67,500



Total Taxable on Account	\$32,339
No of Properties on Account	1

Inspection Date	01/01/2025
Acreage	88.62

MARSHALL COUNTY OFFICE OF PROPERTY VALUATION

Map Number: 05-02-00-033. Account: 1011240 Tax District: 007 Property Class: F Deed: 461/83 Tax Year: 2025



Ownership \*

Table with columns: %, Name, Ownership details. Includes entries for TRUST (REVOCABLE TRUST OF BARBARA M VEAZEY) and TRUSTEE (VEAZEY, BARBARA M).

Assessment Data

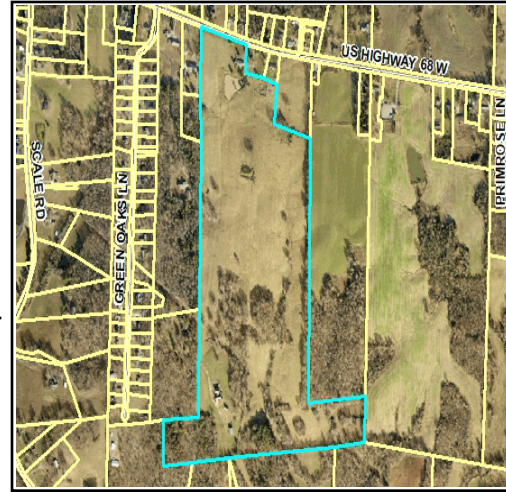
Table with columns: Assessment Item, Value. Includes Land Value (410,000), Improvements (497,000), Fair Cash Value (\$907,000), Ag Exemption (367,151), Ag Value (42,849), Exemption Amount (HEX 46,350), Total Taxable (\$493,499).

Mailing Information

REVOCABLE TRUST OF BARBARA M VEAZEY
557 GREEN OAKS LN
BENTON, KY 42025

Sales Information \*

Table with columns: Deed, Sale Date, Sale Price. Includes entries for deeds 461/83, 461/80, 447/527, 447/524 with sale dates and prices.



Total Taxable on Account \$671,624
No of Properties on Account 6

Inspection Date 01/01/2025
Acreage 102.46

Site Built Home

Improvement Value \$100,000
Style ONE STORY
Type SINGLE-FAMILY RESIDENCE
Year Built 1964
First Floor 2,560 Second Floor 0 Third Floor 0
# Of Units 1 Total Rooms UNKNOWN Full Baths 1
Bedrooms 3 Half Story 0 Half Baths 1
Basement Area NONE % Finished N/A

Utilities
[ ] No Utilities [ ] Unknown [x] Water
[x] Electric [ ] Sewer [x] Natural Gas
Quality GOOD
Flood Hazard NONE
Attached Garage 520 ATTACHED GARAGE

Roofing
100% COMPOSITION SHINGLE

Driveway
ASPHALT

Heating / Cooling
HVAC

Exterior Walls
90% BRICK VENEER
10% HARDBOARD LAP
Foundation
100% CONCRETE BLOCK

Porches
OPEN SLAB PORCH

Fireplace
SINGLE 1 STORY FIREPLACE

Property Address
7449 US HIGHWAY 68 W, BENTON 42025



\* additional information on file

**Farm** Improvement Value **\$50,000**

Year Built **UNKNOWN** Flood Hazard **NONE**

Rank **AVERAGE** Total Floor Area **2760**

Perimeter **288**

Utilities

No Utilities  Unknown  Water

Electric  Sewer  Natural Gas

Driveway  
**GRAVEL**

Construction Class **U - THE CONSTRUCTION CLASS IS UNKNOWN**

Exterior Walls  
**100% STUD WALL - WOOD SIDING**

Occupancy  
**100% UTILITY AND MISCELLANEOUS - U-1**

Property Address  
**NONE,**



**Farm** Improvement Value **\$2,000**

Year Built **UNKNOWN** Flood Hazard **NONE**

Rank **LOW** Total Floor Area **192**

Perimeter **56**

Utilities

No Utilities  Unknown  Water

Electric  Sewer  Natural Gas

Driveway  
**GRAVEL**

Construction Class **U - THE CONSTRUCTION CLASS IS UNKNOWN**

Exterior Walls  
**100% STUD WALL - WOOD SIDING**

Occupancy  
**100% UTILITY AND MISCELLANEOUS - U-2**

Property Address  
**NONE,**





**Site Built Home**

Improvement Value **\$325,000**

Style **TWO STORY**

Type **SINGLE-FAMILY RESIDENCE**

Year Built **2007**

First Floor **3,268**      Second Floor **1,250**      Third Floor **0**

# Of Units **1**      Total Rooms **UNKNOWN**      Full Baths **3**

Bedrooms **3**      Half Story **868**      Half Baths **1**

Basement Area **NONE**      % Finished **N/A**

Roofing

**100% COMPOSITION SHINGLE**

Heating / Cooling

**HVAC**

Porches

**RAISED SLAB PORCH WITH ROOF**

Property Address

**577 GREEN ACRES LN, BENTON 42025**

Utilities

No Utilities     Unknown     Water

Electric     Sewer     Natural Gas

Quality **GOOD**

Flood Hazard **NONE**

Attached Garage

**672 ATTACHED GARAGE**

Driveway

**GRAVEL**

Exterior Walls

**100% BRICK VENEER**

Foundation

**100% CONCRETE BLOCK**

\* Fireplace

**SINGLE 1 STORY FIREPLACE**

**SINGLE 1 STORY FIREPLACE**



**Site Built Home**

Improvement Value **\$20,000**

Style **ONE STORY**

Type **SINGLE-FAMILY RESIDENCE**

Year Built **UNKNOWN**

First Floor **816**      Second Floor **0**      Third Floor **0**

# Of Units **1**      Total Rooms **0**      Full Baths **UNKNOWN**

Bedrooms **UNKNOWN**      Half Story **0**      Half Baths **UNKNOWN**

Basement Area **NONE**      % Finished **N/A**

Roofing

**100% FORMED METAL WITH SEAMS**

Heating / Cooling

**HVAC**

Porches

**WOOD PORCH WITH ROOF**

Property Address

**NONE,**

Utilities

No Utilities     Unknown     Water

Electric     Sewer     Natural Gas

Quality **AVERAGE**

Flood Hazard **UNKNOWN**

Attached Garage

**NONE**

Driveway

**GRAVEL**

Exterior Walls

**100% RUSTIC LOG**

Foundation

**100% CONCRETE BLOCK**

Fireplace

**SINGLE 1 STORY FIREPLACE**





MARSHALL COUNTY OFFICE OF PROPERTY VALUATION

Map Number: 05-02-00-031.

Account: 1011240

Tax District: 007

Property Class: R

Deed: 461/83

Tax Year: 2025



Ownership \*

%	Name
100%	TRUST REVOCABLE TRUST OF BARBARA M VEAZEY
0%	TRUSTEE VEAZEY, BARBARA M

Assessment Data

Land Value	18,000
Improvements	0
Fair Cash Value	\$18,000
Ag Exemption	0
Ag Value	0
Exemption Amount	0
Total Taxable	\$18,000



Mailing Information

REVOCABLE TRUST OF BARBARA M VEAZEY  
557 GREEN OAKS LN  
BENTON, KY 42025

Sales Information

Deed	Sale Date	Sale Price
461/83	06/26/2018	\$1
461/80	06/26/2018	\$0
447/527	11/15/2016	\$0
251/284	08/23/1991	\$30,500

Total Taxable on Account	\$671,624
No of Properties on Account	6

Inspection Date	01/01/2025
Acreage	5.75

# MARSHALL COUNTY OFFICE OF PROPERTY VALUATION

Map Number: 05-02-00-030. Account: 478960 Tax District: 007 Property Class: N Deed: 300/390 Tax Year: 2025

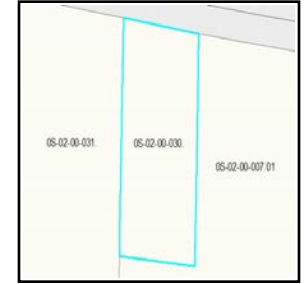


### Ownership

%	Name
100%	FEE SIMPLE
	POSSUM TROT SHARPE VOLUNTEER FIRE DEPARTMENT

### Assessment Data

Land Value	15,000
Improvements	45,000
Fair Cash Value	\$60,000
Ag Exemption	0
Ag Value	0
Exemption Amount	0
Total Taxable	\$0



### Mailing Information

POSSUM TROT FIRE DISTRICT  
7297 US HIGHWAY 68 W  
BENTON, KY 42025

### Sales Information

Deed	Sale Date	Sale Price
300/390	12/30/1997	\$0
187/363	11/11/1980	\$0

Total Taxable on Account \$0  
No of Properties on Account 1

Inspection Date 01/01/2025  
Acreage 0.34

### Garage

Improvement Value **\$45,000**

Year Built **1970**

Area Over Garage	<b>UNKNOWN</b>	Percent Finished	<b>UNKNOWN</b>
Total Area	<b>1,800</b>	Percent Finished	<b>UNKNOWN</b>
Full Baths	<b>UNKNOWN</b>	Half Baths	<b>UNKNOWN</b>

Heating / Cooling  
**HVAC**

Roofing  
**100% FORMED METAL WITH SEAMS**

Property Address  
**7297 US HIGHWAY 68 W, BENTON 42025**

### Utilities

- No Utilities
- Unknown
- Water
- Electric
- Sewer
- Natural Gas

Quality **GOOD**  
Flood Hazard **UNKNOWN**

Driveway  
**GRAVEL**

Exterior Walls  
**100% SIDING, METAL**

Foundation  
**100% SLAB**



# MARSHALL COUNTY OFFICE OF PROPERTY VALUATION

Map Number: 05-02-00-007.03 Account: 917630 Tax District: 007 Property Class: R Deed: 422/396 Tax Year: 2025

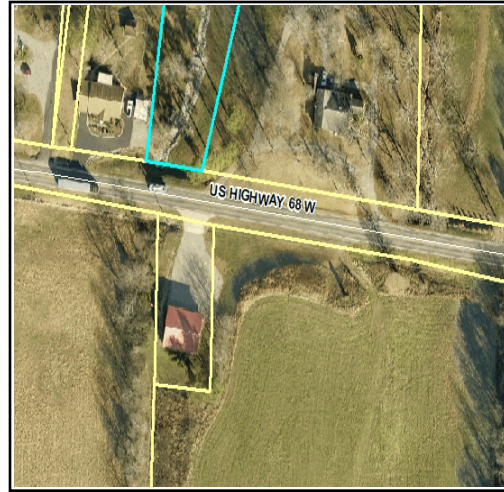


### Ownership

%	Name
100%	FEE SIMPLE SEAY, GARY E

### Assessment Data

Land Value	4,000
Improvements	14,000
Fair Cash Value	\$18,000
Ag Exemption	0
Ag Value	0
Exemption Amount	0
Total Taxable	\$18,000



### Mailing Information

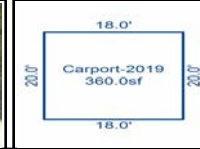
SEAY GARY E  
7324 US HIGHWAY 68 W  
BENTON, KY 42025

### Sales Information

Deed	Sale Date	Sale Price
422/396	08/23/2013	\$1,000

Total Taxable on Account	\$18,500
No of Properties on Account	2

Inspection Date	01/01/2025
Acreage	0.74



**Garage** Improvement Value **\$14,000**

Year Built **2018**

Area Over Garage	<b>0</b>	Percent Finished	<b>0%</b>
Total Area	<b>1,780</b>	Percent Finished	<b>0%</b>
Full Baths	<b>0</b>	Half Baths	<b>0</b>

Heating / Cooling  
**NONE**

Roofing  
**100% FORMED METAL WITH SEAMS**

Property Address  
**NONE,**

#### Utilities

- No Utilities
- Unknown
- Water
- Electric
- Sewer
- Natural Gas

Quality **AVERAGE**  
Flood Hazard **UNKNOWN**

Driveway  
**GRAVEL**

Exterior Walls  
**100% SIDING, METAL**

Foundation  
**100% SLAB**





702J 1970 0000 8657 0236

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Certified Mail Fee  
\$

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage  
\$

**Seay Gary E**  
7324 US Highway 68 W  
Benton, KY 42025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



7017 0190 0000 9587 9407

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Certified Mail Fee  
\$

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage  
\$

**Riley Nancy B**  
758 Mt Moriah Rd  
Benton, KY 42025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



702J 1970 0000 8657 0243

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Certified Mail Fee  
\$

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage  
\$

**Goss John and Traci**  
7190 US Highway 68 W  
Benton, KY 42025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



702J 1970 0000 8657 0229

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OFFICIAL USE

Certified Mail Fee  
\$

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage  
\$

**Caldwell Deanna Renee**  
7260 US Highway 68 W  
Benton, KY 42025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



702J 1970 0000 8657 0267

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Certified Mail Fee  
\$

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage  
\$

**Possum Trot Fire District**  
7297 US Highway 68 W  
Benton, KY 42025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



702J 1970 0000 8657 0250

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Certified Mail Fee  
\$

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage  
\$

**Riley James H**  
98 Peck Cemetery Ln  
Calvert City, KY 42029

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions





7021 1970 0000 8657 0274

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Certified Mail Fee			Postmark Here	
Extra Services & Fees (check box, add fee as appropriate)				
<input type="checkbox"/>	Return Receipt (hardcopy)			\$
<input type="checkbox"/>	Return Receipt (electronic)			\$
<input type="checkbox"/>	Certified Mail Restricted Delivery			\$
<input type="checkbox"/>	Adult Signature Required	\$		
<input type="checkbox"/>	Adult Signature Restricted Delivery	\$		
Postage				
\$	Tot			
\$	Sen			
\$	Str			
\$	City			
Riley Kevin D and Debbie S 7129 US Highway 68 W Benton, KY 42025				
PS Form 3800, April 2013 PSN 7530-02-000-9047 See Reverse for Instructions				

7021 1970 0000 8657 0261

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Certified Mail Fee			Postmark Here	
Extra Services & Fees (check box, add fee as appropriate)				
<input type="checkbox"/>	Return Receipt (hardcopy)			\$
<input type="checkbox"/>	Return Receipt (electronic)			\$
<input type="checkbox"/>	Certified Mail Restricted Delivery			\$
<input type="checkbox"/>	Adult Signature Required	\$		
<input type="checkbox"/>	Adult Signature Restricted Delivery	\$		
Postage				
\$	Tot			
\$	Sen			
\$	Str			
\$	City			
Groover James Cory 7191 US Highway 68 W Benton, KY 42025				
PS Form 3800, April 2013 PSN 7530-02-000-9047 See Reverse for Instructions				

7017 0190 0000 9587 9384

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Certified Mail Fee			Postmark Here	
Extra Services & Fees (check box, add fee as appropriate)				
<input type="checkbox"/>	Return Receipt (hardcopy)			\$
<input type="checkbox"/>	Return Receipt (electronic)			\$
<input type="checkbox"/>	Certified Mail Restricted Delivery			\$
<input type="checkbox"/>	Adult Signature Required	\$		
<input type="checkbox"/>	Adult Signature Restricted Delivery	\$		
Postage				
\$	Tot			
\$	Sen			
\$	Str			
\$	City			
Fields Donald G and Nancy 1710 Pickering Ln Little Rock, AR 72211				
PS Form 3800, April 2013 PSN 7530-02-000-9047 See Reverse for Instructions				

7017 0190 0000 9587 9391

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OFFICIAL USE

Certified Mail Fee			Postmark Here	
Extra Services & Fees (check box, add fee as appropriate)				
<input type="checkbox"/>	Return Receipt (hardcopy)			\$
<input type="checkbox"/>	Return Receipt (electronic)			\$
<input type="checkbox"/>	Certified Mail Restricted Delivery			\$
<input type="checkbox"/>	Adult Signature Required	\$		
<input type="checkbox"/>	Adult Signature Restricted Delivery	\$		
Postage				
\$	Tot			
\$	Sen			
\$	Str			
\$	City			
Revocable Trust of Barbara M Veazey 557 Green Oaks Ln Benton, KY 42025				
PS Form 3800, April 2013 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:

Caldwell Deanna Renee  
7260 US Highway 68 W  
Benton, KY 42025



9590 9402 7548 2098 3233 91

2. Article Number (Transfer from service label)  
7021 1970 0000 8657 0229

PS Form 3811, July 2020 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 *Deanna Caldwell*  Agent  
 Addressee

B. Received by (Printed Name)  
*Deanna Caldwell*

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type  Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restricted Delivery  
 Certified Mail®  Signature Confirmation™  
 Certified Mail Restricted Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery  
 Collect on Delivery Restricted Delivery

1 Mail Restricted Delivery (over 500)

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:

Goss John and Traci  
7190 US Highway 68 W  
Benton, KY 42025



9590 9402 7548 2098 3233 60

2. Article Number (Transfer from service label)  
7021 1970 0000 8657 0243

PS Form 3811, July 2020 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 *John Goss*  Agent  
 Addressee

B. Received by (Printed Name)  
*T. Goss*

C. Date of Delivery  
*4-11-24*

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type  Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restricted Delivery  
 Certified Mail®  Signature Confirmation™  
 Certified Mail Restricted Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery  
 Collect on Delivery Restricted Delivery

1 Mail Restricted Delivery (over 500)

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:

Fields Donald G and Nancy  
1710 Pickering Ln  
Little Rock, AR 72211



9590 9402 7548 2098 3123 19

2. Article Number (Transfer from service label)  
7017 0190 0000 9587 9384

PS Form 3811, July 2020 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 *Donald G. Fields*  Agent  
 Addressee

B. Received by (Printed Name)  
*DONALD G. FIELDS*

C. Date of Delivery  
*11 2024*

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

*1729 SW Paloma Ct  
Lake City, FL 32025*

3. Service Type  Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restricted Delivery  
 Certified Mail®  Signature Confirmation™  
 Certified Mail Restricted Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery  
 Collect on Delivery Restricted Delivery

1 Mail Restricted Delivery (over 500)

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, on the front if space permits.

1. Article Addressed to:

Groover James Cory  
7191 US Highway 68 W  
Benton, KY 42025



9590 9402 7548 2098 3233 22

2. Article Number (Transfer from service label)

7021 1970 0000 8657 0281

PS Form 3811, July 2020 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *Cory Groover*

- Agent
- Addressee

B. Received by (Printed Name)

CORRY GROOVER

C. Date of Delivery

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

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Registered Mail Restricted Delivery (\$0)

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:

Revocable Trust of Barbara M  
Veazey  
557 Green Oaks Ln  
Benton, KY 42025



9590 9402 7548 2098 3123 26

2. Article Number (Transfer from service label)

7017 0190 0000 9587 9391

PS Form 3811, July 2020 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *Barbara M Veazey*

- Agent
- Addressee

B. Received by (Printed Name)

B

C. Date of Delivery

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

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Registered Mail Restricted Delivery (\$500)

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:

Riley Nancy B  
758 Mt Moriah Rd  
Benton, KY 42025



9590 9402 7548 2098 3123 33

2. Article Number (Transfer from service label)

7017 0190 0000 9587 9407

PS Form 3811, July 2020 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *Nancy B Riley*

- Agent
- Addressee

B. Received by (Printed Name)

B

C. Date of Delivery

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

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Registered Mail Restricted Delivery (\$500)

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, on the front if space permits.
1. Article Addressed to:

Riley Kevin D and Debbie S  
7129 US Highway 68 W  
Benton, KY 42025



9590 9402 7548 2098 3233 53

2. Article Number (Transfer from service label)

7021 1970 0000 8657 0274

**COMPLETE THIS SECTION ON DELIVERY**

- A. Signature  
**X** *Debbie S. Riley*  Agent  
 Addressee
- B. Received by (Printed Name) *Debbie S. Riley* C. Date of Delivery
- D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type
- |  |   |
|--|---|
| <input type="checkbox"/> Adult Signature                         | <input type="checkbox"/> Priority Mail Express®                     |
| <input type="checkbox"/> Adult Signature Restricted Delivery     | <input type="checkbox"/> Registered Mail™                           |
| <input checked="" type="checkbox"/> Certified Mail®              | <input type="checkbox"/> Registered Mail Restricted Delivery        |
| <input type="checkbox"/> Certified Mail Restricted Delivery      | <input type="checkbox"/> Signature Confirmation™                    |
| <input type="checkbox"/> Collect on Delivery                     | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery |   |
- Mail Restricted Delivery (00)



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY																
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature <span style="float: right;"><input type="checkbox"/> Agent <input type="checkbox"/> Addressee</span></p> <p>X</p> <p>B. Received by (Printed Name) <span style="float: right;">C. Date of Delivery</span></p>																
<p>1. Article Addressed to:</p> <p><b>Possum Trot Fire District</b>  <b>7297 US Highway 68 W</b>  <b>Benton, KY 42025</b></p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes          If YES, enter delivery address below: <input type="checkbox"/> No</p>																
<p>2. Article Number (Transfer from service label)</p> <p><b>7021 1970 0000 8657 0267</b></p>	<p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input checked="" type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</td> <td></td> </tr> </table>	<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery	<input type="checkbox"/> Collect on Delivery Restricted Delivery		<input type="checkbox"/> Insured Mail		<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®																
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™																
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery																
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation™																
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery																
<input type="checkbox"/> Collect on Delivery Restricted Delivery																	
<input type="checkbox"/> Insured Mail																	
<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)																	



9590 9402 7548 2098 3233 46

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt



42025 KY 42025

Possum Trot Fire District  
 7297 US Highway 68 W  
 Benton, KY 42025

*MP*

1578 Highway 44 East, Suite 6  
 P.O. Box 369  
 Shepherdsville, KY 40165-0369

US POSTAGE **\$ 008.69**  
 ZIP 40165  
 APR 05 2024



4/13

7021 1970 0000 8657 0267



**CERTIFIED MAIL**



Tracking Number:

Remove X

## 70211970000086570236

Copy

Add to Informed Delivery (<https://informedelivery.usps.com/>)

### Latest Update

Your item was delivered to an individual at the address at 11:32 am on April 9, 2024 in BENTON, KY 42025.

Get More Out of USPS Tracking:

USPS Tracking Plus<sup>®</sup>

### Delivered

Delivered, Left with Individual

BENTON, KY 42025

April 9, 2024, 11:32 am

[See All Tracking History](#)

Feedback

[What Do USPS Tracking Statuses Mean? \(https://faq.usps.com/s/article/Where-is-my-package\)](https://faq.usps.com/s/article/Where-is-my-package)

Text & Email Updates



USPS Tracking Plus<sup>®</sup>



Product Information



See Less ^

Track Another Package

Enter tracking or barcode numbers

## **Need More Help?**

Contact USPS Tracking support for further assistance.

**FAQs**

Tracking Number:

Remove X

## 7021197000086570250

Copy

Add to Informed Delivery (<https://informedelivery.usps.com/>)

### Latest Update

Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

#### Get More Out of USPS Tracking:

USPS Tracking Plus<sup>®</sup>

Delivered

Out for Delivery

Preparing for Delivery

#### Moving Through Network

In Transit to Next Facility

April 11, 2024

Arrived at USPS Regional Facility

EVANSVILLE IN DISTRIBUTION CENTER

April 6, 2024, 2:56 pm

See All Tracking History

Feedback

[What Do USPS Tracking Statuses Mean? \(https://faq.usps.com/s/article/Where-is-my-package\)](https://faq.usps.com/s/article/Where-is-my-package)

Text & Email Updates





**USPS Tracking Plus®**



---

**Product Information**



**See Less**

Track Another Package

Enter tracking or barcode numbers

## **Need More Help?**

Contact USPS Tracking support for further assistance.

**FAQs**

**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  
Site Name: EV SHARPE**

Dear Landowner:

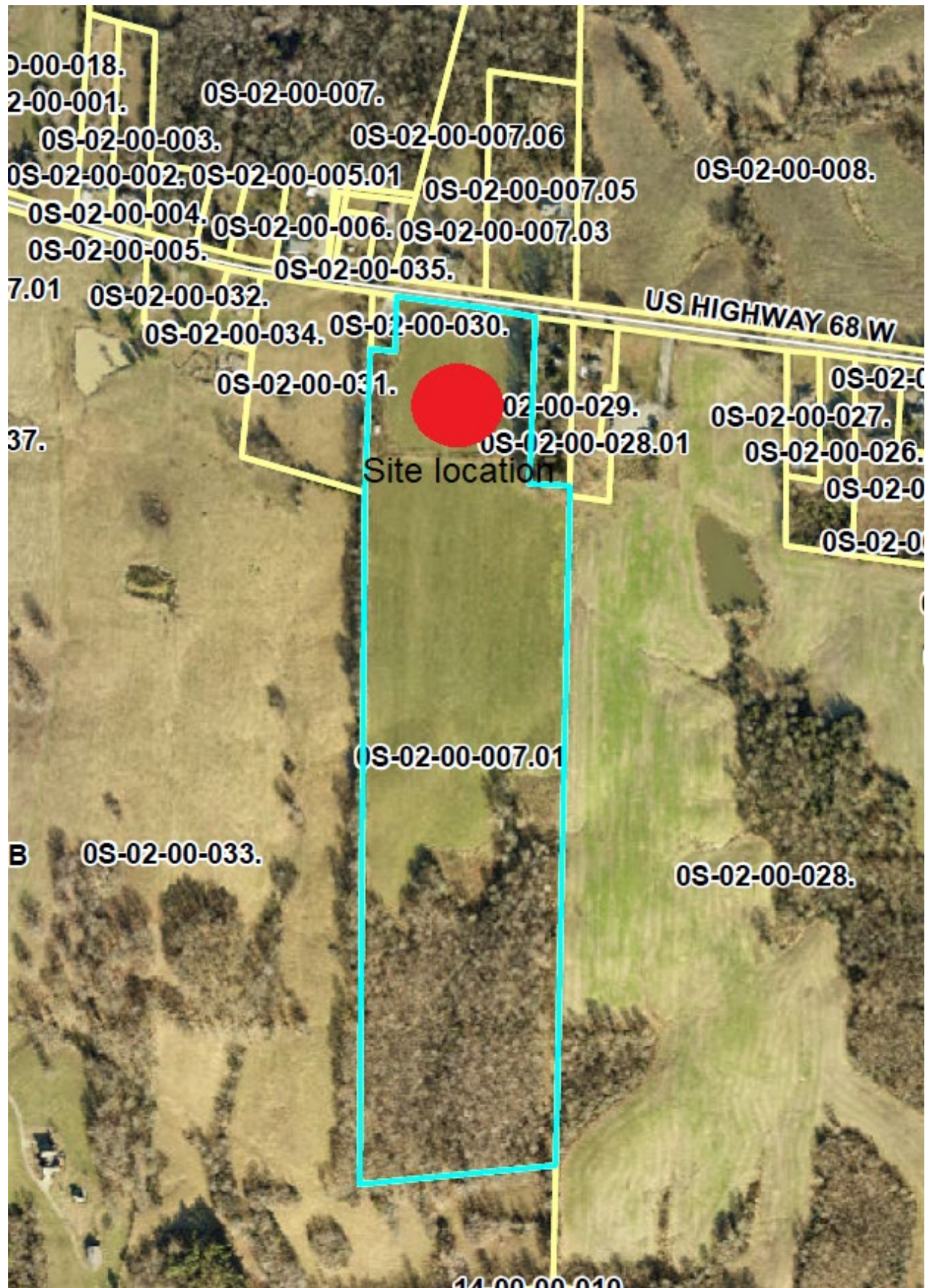
APC Towers IV, LLC, a Delaware limited liability company is filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located on US Highway 68, Benton, Kentucky 42025 (36° 57' 56.81" North latitude, 88° 26' 54.39" West longitude). The proposed site is not in the city limits of Benton or within its extraterritorial jurisdiction. The proposed facility will include a 195-foot tall tower with a 4-foot tall lightning arrestor attached at the top for a total height of 199 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 2024-00091 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.

Sincerely,  
David A. Pike  
Attorney for Applicant

enclosures





**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**

Kevin Spraggs  
County Judge Executive  
1101 Main Street  
Benton, KY 42025

RE: Notice of Proposal to Construct Wireless Communications Facility  
Kentucky Public Service Commission Docket No. 2024-00091  
Site Name: EV Sharpe

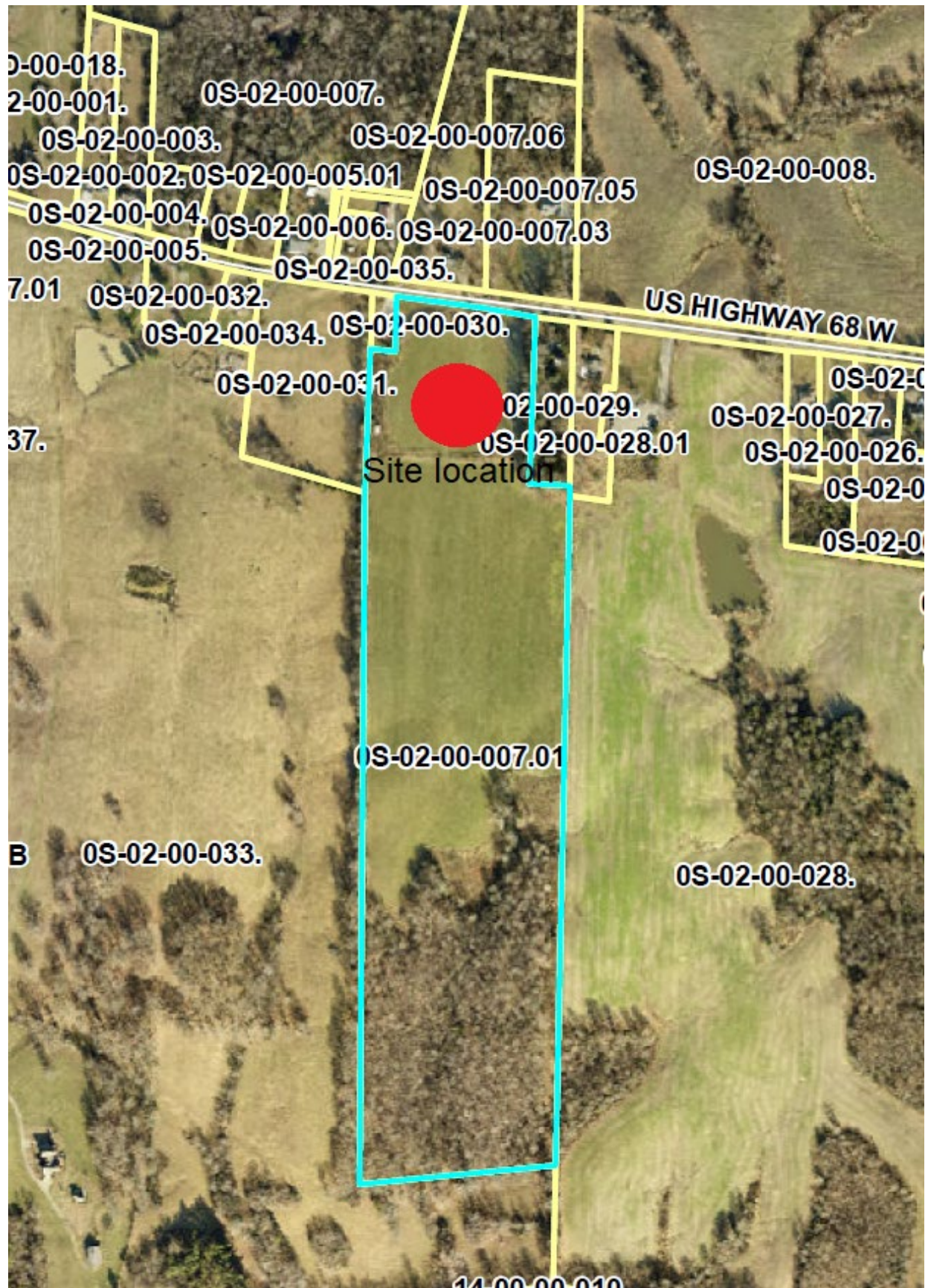
Dear Judge/Executive:

APC Towers IV, LLC, a Delaware limited liability company is filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located on US Highway 68, Benton, Kentucky 42025 (36° 57' 56.81" North latitude, 88° 26' 54.39" West longitude). The proposed site is not in the city limits of Benton or within its extraterritorial jurisdiction. The proposed facility will include a 195-foot tall tower with a 4-foot tall lightning arrestor attached at the top for a total height of 199 feet, plus related ground facilities. This facility is needed to provide improved service for wireless communications in the area.

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

Sincerely,  
David A. Pike  
Attorney for Applicant  
enclosures





7021 1970 0000 8657 0212

**U.S. Postal Service™**  
**CERTIFIED MAIL® RECEIPT**  
*Domestic Mail Only*

For delivery information, visit our website at [www.usps.com](http://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 \$ \_\_\_\_\_

Kevin Spraggs  
 County Judge Executive  
 1101 Main Street  
 Benton, KY 42025

APR 05 2024  
 SHEPHERDSVILLE KY  
 40165

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature <input checked="" type="checkbox"/> Agent  <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <u>Samuel</u></p> <p>C. Date of Delivery <u>4/8/24</u></p>
<p>1. Article Addressed to:</p> <p>Kevin Spraggs        County Judge Executive        1101 Main Street        Benton, KY 42025</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes        If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>2. Article Number (Transfer from service label)</p> <p>9590 9402 7548 2098 3233 84</p> <p>7021 1970 0000 8657 0212</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™</p> <p><input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery (Adult Mail Restricted Delivery \$500)</p>
<p>PS Form 3811, July 2020 PSN 7530-02-000-9053</p>	<p>Domestic Return Receipt</p>



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

**SITE NAME: EV SHARPE**  
**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 proposes 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 2024-00091 in your correspondence.

APC Towers IV, LLC, a Delaware limited liability company proposes 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 2024-00091 in your correspondence.

Tribune Courier  
Attn: Public Notice Ad Placement  
86B Commerce Blvd.  
Benton, KY 42025  
Via Email: editor@tribunecourier.com

RE: Legal Notice Advertisement  
Site Name: EV Sharpe

Dear Tribune Courier:

Please publish the following legal notice advertisement in the next edition of *Tribune Courier*:

**NOTICE**

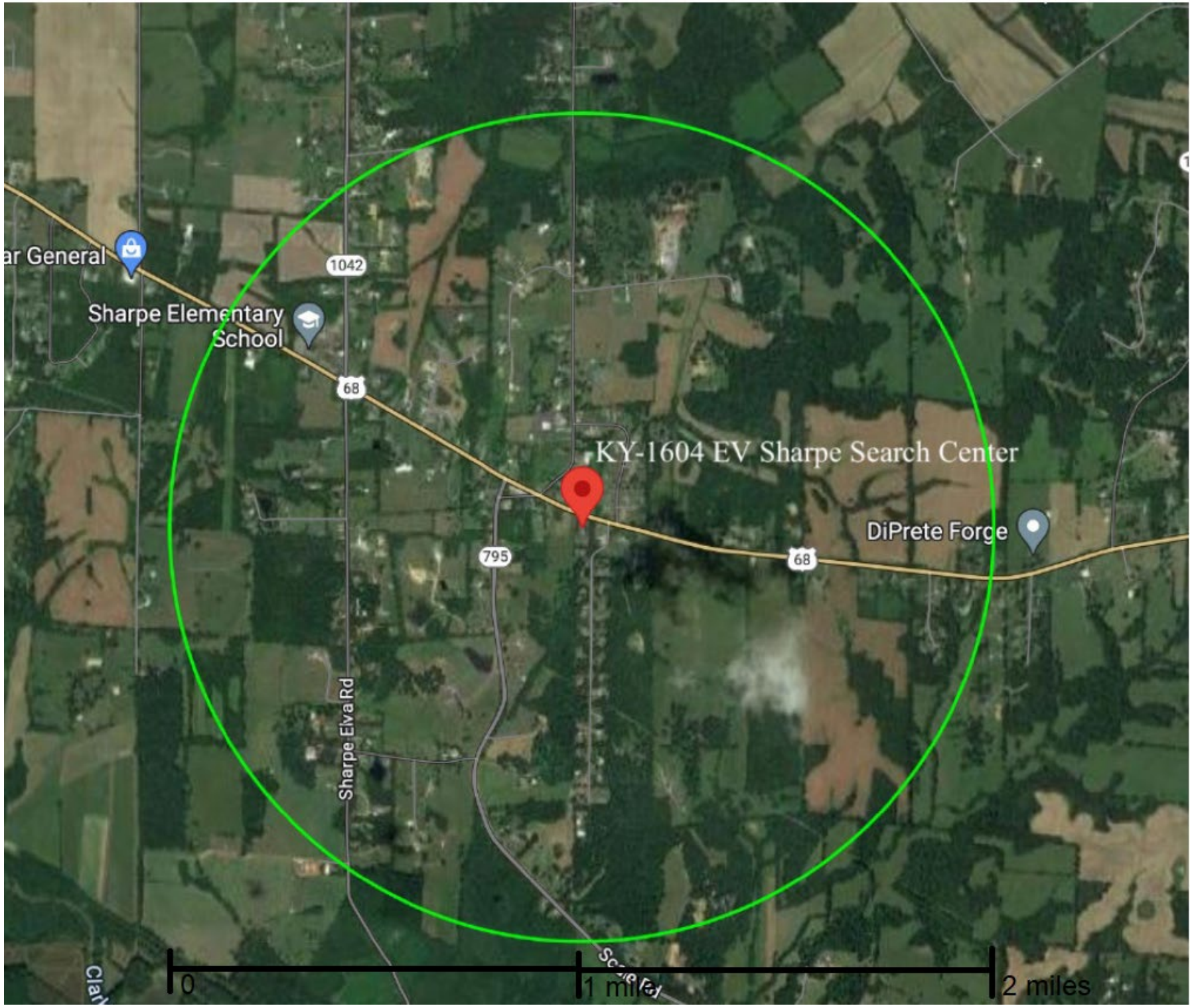
**APC Towers IV, LLC, a Delaware limited liability company is filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located on US Highway 68, Benton, Kentucky 42025 (36°57'56.81" North latitude, 88°26'54.39" West longitude). 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 2024-00091 in any correspondence sent in connection with this matter.**

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

Sincerely,  
Aaron L. Roof  
Pike Legal Group, PLLC

**EXHIBIT N**  
**COPY OF RADIO FREQUENCY DESIGN SEARCH AREA**





ar General

Sharpe Elementary School

KY-1604 EV Sharpe Search Center

DiPrete Forge

Sharpe Elva Rd

Clay

0 1 mile 2 miles